



Red Stag Vertex & GLT_h Design Guide



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Red Stag Vertex & GLT_h Design Guide V1.3
November 2025





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Document Disclaimer

The Red Stag Vertix and GLT_h Design Guide is intended to provide an overview of the structural design principles associated with simple GLT members. This may include Red Stag Vertix and GLT_h rafters, ridge beams, and lintels (roof and floor). A series of span tables for Red Stag Vertix and GLT_h members has been provided in the guide to support consulting engineers with beam sizes for various applications based on a third-party Engineering Judgement (EJ).

It is the responsibility of Red Stag Vertix and GLT_h users to ensure that this Design Guide is appropriate and exercise their own professional judgment when using the Red Stag documents. Full responsibility for design and compliance with the New Zealand Building Code (NZBC) and all relevant New Zealand standards, rests with the design professional specifying the product. Red Stag does not accept any liability for engineering or architectural designs or incorrectly specified Red Stag components.



Section 1

Red Stag Vertix Lintel Span Tables

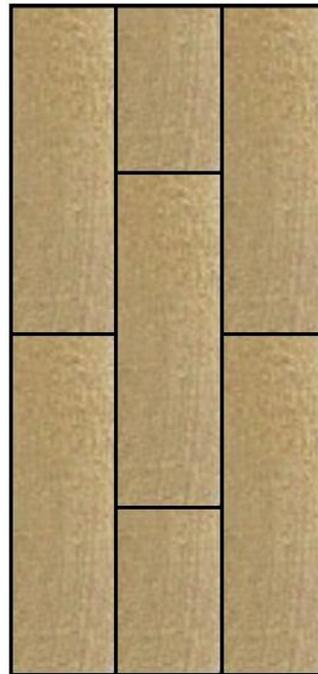


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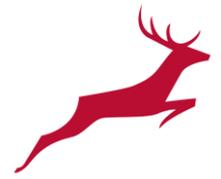
Section 1.1 Red Stag Vertix₁₀ Roof Lintel Light Roof



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1.1.1.1. Vertex₁₀ Roof Lintel Span Table: Light Roof ≤ 25° (Face Loading)

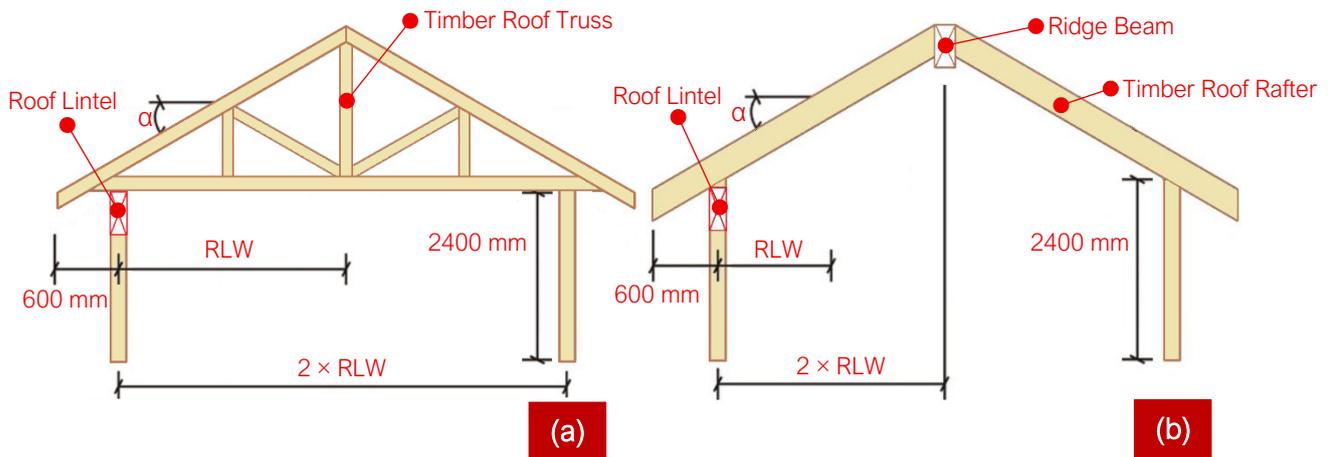


Figure 1: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 1: Red Stag Vertex ₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1970	1690	1520	1410	1320	1250
140 x 88		3090	2670	2410	2230	2090	1990
190 x 88		3580	3580	3250	3010	2830	2690
240 x 88		3800	3800	3800	3790	3560	3380
290 x 88		3980	3980	3980	3980	3980	3980
300 x 88		4010	4010	4010	4010	4010	4010
315 x 88		4060	4060	4060	4060	4060	4060
350 x 88		4170	4170	4170	4170	4170	4170
360 x 88		4200	4200	4200	4200	4200	4200
400 x 88		4310	4310	4310	4310	4310	4310
405 x 88		4330	4330	4330	4330	4330	4330
450 x 88		4440	4440	4440	4440	4440	4440
495 x 88		4550	4550	4550	4550	4550	4550
500 x 88		4560	4560	4560	4560	4560	4560
540 x 88		4650	4650	4650	4650	4650	4650
550 x 88		4670	4670	4670	4670	4670	4670
595 x 88		4760	4760	4760	4760	4760	4760
600 x 88		4770	4770	4770	4770	4770	4770
88 x 88	Medium	1970	1690	1520	1410	1320	1250
140 x 88		2930	2670	2410	2230	2090	1990
190 x 88		3240	3240	3240	3010	2830	2690
240 x 88		3510	3510	3510	3510	3510	3380
290 x 88		3700	3700	3700	3700	3700	3700
300 x 88		3730	3730	3730	3730	3730	3730
315 x 88		3780	3780	3780	3780	3780	3780
350 x 88		3880	3880	3880	3880	3880	3880
360 x 88		3910	3910	3910	3910	3910	3910
400 x 88		4010	4010	4010	4010	4010	4010
405 x 88		4020	4020	4020	4020	4020	4020
450 x 88		4130	4130	4130	4130	4130	4130
495 x 88		4230	4230	4230	4230	4230	4230
500 x 88		4240	4240	4240	4240	4240	4240
540 x 88		4320	4320	4320	4320	4320	4320
550 x 88		4340	4340	4340	4340	4340	4340
595 x 88		4430	4430	4430	4430	4430	4430
600 x 88		4440	4440	4440	4440	4440	4440

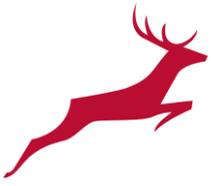


Table 1 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	1930	1690	1520	1410	1320	1250
140 x 88		2610	2610	2410	2230	2090	1990
190 x 88		2890	2890	2890	2890	2830	2690
240 x 88		3120	3120	3120	3120	3120	3120
290 x 88		3330	3330	3330	3330	3330	3330
300 x 88		3370	3370	3370	3370	3370	3370
315 x 88		3420	3420	3420	3420	3420	3420
350 x 88		3540	3540	3540	3540	3540	3540
360 x 88		3580	3580	3580	3580	3580	3580
400 x 88		3680	3680	3680	3680	3680	3680
405 x 88		3690	3690	3690	3690	3690	3690
450 x 88		3790	3790	3790	3790	3790	3790
495 x 88		3880	3880	3880	3880	3880	3880
500 x 88		3890	3890	3890	3890	3890	3890
540 x 88		3960	3960	3960	3960	3960	3960
550 x 88		3980	3980	3980	3980	3980	3980
595 x 88	4060	4060	4060	4060	4060	4060	
600 x 88	4070	4070	4070	4070	4070	4070	
88 x 88	Very High	1770	1550	1410	1310	1240	1170
140 x 88		2400	2400	2250	2090	1970	1870
190 x 88		2650	2650	2650	2650	2610	2480
240 x 88		2870	2870	2870	2870	2870	2870
290 x 88		3060	3060	3060	3060	3060	3060
300 x 88		3090	3090	3090	3090	3090	3090
315 x 88		3140	3140	3140	3140	3140	3140
350 x 88		3250	3250	3250	3250	3250	3250
360 x 88		3290	3290	3290	3290	3290	3290
400 x 88		3400	3400	3400	3400	3400	3400
405 x 88		3420	3420	3420	3420	3420	3420
450 x 88		3540	3540	3540	3540	3540	3540
495 x 88		3640	3640	3640	3640	3640	3640
500 x 88		3650	3650	3650	3650	3650	3650
540 x 88		3720	3720	3720	3720	3720	3720
550 x 88		3740	3740	3740	3740	3740	3740
595 x 88	3810	3810	3810	3810	3810	3810	
600 x 88	3820	3820	3820	3820	3820	3820	
88 x 88	Extra High	1660	1460	1330	1230	1160	1100
140 x 88		2250	2240	2070	1930	1820	1720
190 x 88		2490	2490	2490	2480	2350	2230
240 x 88		2690	2690	2690	2690	2690	2690
290 x 88		2870	2870	2870	2870	2870	2870
300 x 88		2900	2900	2900	2900	2900	2900
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	



1.1.2. Vertex₁₀ Roof Lintel Span Table: Light Roof ≤ 25° (No Face Loading)

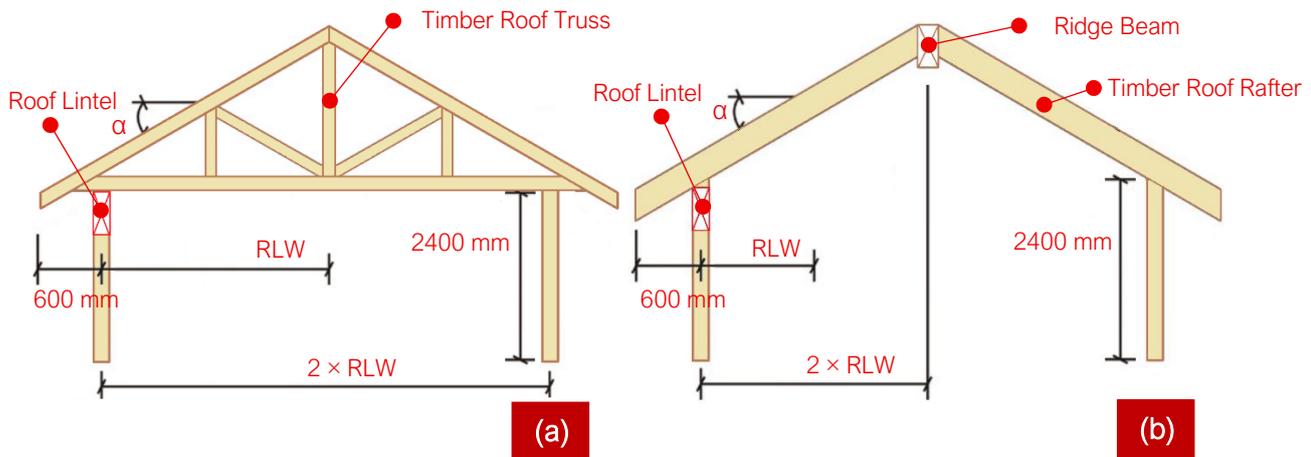


Figure 2: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 2: Red Stag Vertex₁₀ Roof Lintel Beam Span Table.

Roof Weight: Light		Roof Pitch α : 0° to 25° Ignoring wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1970	1690	1520	1410	1320	1250
140 x 88		3090	2670	2410	2230	2090	1990
190 x 88		4140	3590	3250	3010	2830	2690
240 x 88		5170	4500	4090	3790	3560	3380
290 x 88		6170	5400	4910	4560	4290	4080
300 x 88		6370	5580	5070	4710	4430	4210
315 x 88		6660	5840	5310	4940	4650	4420
350 x 88		7340	6450	5880	5470	5150	4900
360 x 88		7540	6630	6040	5620	5300	5040
400 x 88		8250	7320	6680	6220	5870	5580
88 x 88	Medium	1970	1690	1520	1410	1320	1250
140 x 88		3090	2670	2410	2230	2090	1990
190 x 88		4140	3590	3250	3010	2830	2690
240 x 88		5170	4500	4090	3790	3560	3380
290 x 88		6020	5400	4910	4560	4290	4080
300 x 88		6180	5580	5070	4710	4430	4210
315 x 88		6410	5810	5310	4940	4650	4420
350 x 88		6940	6290	5860	5470	5150	4900
360 x 88		7090	6420	5980	5620	5300	5040
400 x 88		7670	6950	6470	6130	5860	5580
88 x 88	High	1930	1690	1520	1410	1320	1250
140 x 88		3070	2670	2410	2230	2090	1990
190 x 88		4020	3590	3250	3010	2830	2690
240 x 88		4790	4340	4050	3790	3560	3380
290 x 88		5520	5000	4660	4410	4220	4060
300 x 88		5670	5130	4780	4530	4330	4170
315 x 88		5880	5320	4960	4700	4490	4320
350 x 88		6360	5760	5370	5080	4860	4680
360 x 88		6500	5890	5490	5190	4960	4780
400 x 88		7030	6370	5940	5620	5370	5170

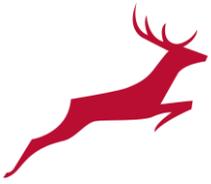


Table 2 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25°		Ignoring wind face load			
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1770	1550	1410	1310	1240	1170
140 x 88		2820	2470	2250	2090	1970	1870
190 x 88		3770	3360	3060	2840	2680	2540
240 x 88		4500	4070	3790	3590	3380	3210
290 x 88		5180	4690	4370	4140	3960	3810
300 x 88		5320	4820	4490	4250	4060	3910
315 x 88		5510	4990	4650	4410	4210	4050
350 x 88		5970	5410	5040	4770	4560	4390
360 x 88		6090	5520	5150	4870	4660	4480
400 x 88		6600	5980	5570	5270	5040	4850
88 x 88	Extra High	1660	1460	1330	1230	1160	1100
140 x 88		2650	2320	2110	1960	1850	1760
190 x 88		3600	3150	2870	2670	2510	2390
240 x 88		4290	3880	3620	3370	3170	3010
290 x 88		4940	4480	4170	3950	3770	3630
300 x 88		5070	4590	4280	4050	3870	3730
315 x 88		5260	4760	4440	4200	4010	3860
350 x 88		5690	5150	4800	4550	4350	4180
360 x 88		5810	5260	4910	4640	4440	4270
400 x 88		6290	5700	5310	5020	4800	4620



1.1.3. Vertex₁₀ Roof Lintel Span Table: Light Roof 25° - 45° (Face Loading)

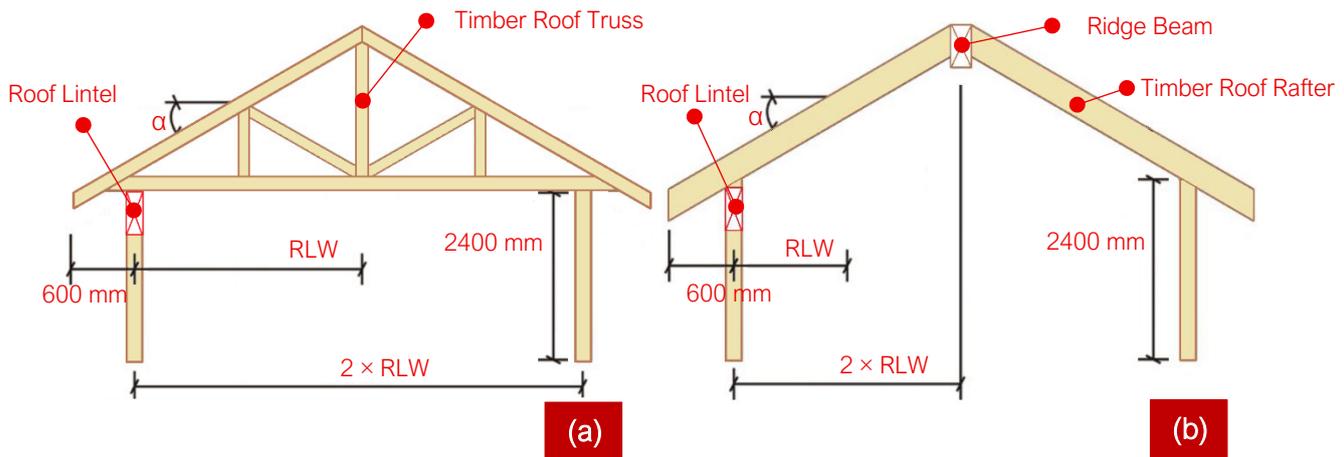


Figure 3: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 3: Red Stag Vertex ₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : >25° to 45° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1810	1560	1400	1300	1220	1150
140 x 88		2850	2460	2220	2050	1930	1830
190 x 88		3580	3310	2990	2770	2610	2470
240 x 88		3800	3800	3760	3490	3280	3110
290 x 88		3980	3980	3980	3980	3950	3750
300 x 88		4010	4010	4010	4010	4010	3880
315 x 88		4060	4060	4060	4060	4060	4060
350 x 88		4170	4170	4170	4170	4170	4170
360 x 88		4200	4200	4200	4200	4200	4200
400 x 88		4310	4310	4310	4310	4310	4310
405 x 88		4330	4330	4330	4330	4330	4330
450 x 88		4440	4440	4440	4440	4440	4440
495 x 88		4550	4550	4550	4550	4550	4550
500 x 88		4560	4560	4560	4560	4560	4560
540 x 88		4650	4650	4650	4650	4650	4650
550 x 88		4670	4670	4670	4670	4670	4670
595 x 88		4760	4760	4760	4760	4760	4760
600 x 88		4770	4770	4770	4770	4770	4770
88 x 88	Medium	1810	1560	1400	1300	1220	1150
140 x 88		2850	2460	2220	2050	1930	1830
190 x 88		3240	3240	2990	2770	2610	2470
240 x 88		3510	3510	3510	3490	3280	3110
290 x 88		3700	3700	3700	3700	3700	3700
300 x 88		3730	3730	3730	3730	3730	3730
315 x 88		3780	3780	3780	3780	3780	3780
350 x 88		3880	3880	3880	3880	3880	3880
360 x 88		3910	3910	3910	3910	3910	3910
400 x 88		4010	4010	4010	4010	4010	4010
405 x 88		4020	4020	4020	4020	4020	4020
450 x 88		4130	4130	4130	4130	4130	4130
495 x 88		4230	4230	4230	4230	4230	4230
500 x 88		4240	4240	4240	4240	4240	4240
540 x 88		4320	4320	4320	4320	4320	4320
550 x 88		4340	4340	4340	4340	4340	4340
595 x 88		4430	4430	4430	4430	4430	4430
600 x 88		4440	4440	4440	4440	4440	4440



Table 3 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 25° to 45°			Considering wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	1810	1560	1400	1300	1220	1150
140 x 88		2610	2460	2220	2050	1930	1830
190 x 88		2890	2890	2890	2770	2610	2470
240 x 88		3120	3120	3120	3120	3120	3110
290 x 88		3330	3330	3330	3330	3330	3330
300 x 88		3370	3370	3370	3370	3370	3370
315 x 88		3420	3420	3420	3420	3420	3420
350 x 88		3540	3540	3540	3540	3540	3540
360 x 88		3580	3580	3580	3580	3580	3580
400 x 88		3680	3680	3680	3680	3680	3680
405 x 88		3690	3690	3690	3690	3690	3690
450 x 88		3790	3790	3790	3790	3790	3790
495 x 88		3880	3880	3880	3880	3880	3880
500 x 88		3890	3890	3890	3890	3890	3890
540 x 88		3960	3960	3960	3960	3960	3960
550 x 88		3980	3980	3980	3980	3980	3980
595 x 88	4060	4060	4060	4060	4060	4060	
600 x 88	4070	4070	4070	4070	4070	4070	
88 x 88	Very High	1770	1550	1400	1300	1220	1150
140 x 88		2400	2400	2220	2050	1930	1830
190 x 88		2650	2650	2650	2650	2530	2400
240 x 88		2870	2870	2870	2870	2870	2870
290 x 88		3060	3060	3060	3060	3060	3060
300 x 88		3090	3090	3090	3090	3090	3090
315 x 88		3140	3140	3140	3140	3140	3140
350 x 88		3250	3250	3250	3250	3250	3250
360 x 88		3290	3290	3290	3290	3290	3290
400 x 88		3400	3400	3400	3400	3400	3400
405 x 88		3420	3420	3420	3420	3420	3420
450 x 88		3540	3540	3540	3540	3540	3540
495 x 88		3640	3640	3640	3640	3640	3640
500 x 88		3650	3650	3650	3650	3650	3650
540 x 88		3720	3720	3720	3720	3720	3720
550 x 88		3740	3740	3740	3740	3740	3740
595 x 88	3810	3810	3810	3810	3810	3810	
600 x 88	3820	3820	3820	3820	3820	3820	
88 x 88	Extra High	1660	1460	1330	1230	1160	1100
140 x 88		2250	2250	2110	1950	1830	1720
190 x 88		2490	2490	2490	2490	2350	2230
240 x 88		2690	2690	2690	2690	2690	2690
290 x 88		2870	2870	2870	2870	2870	2870
300 x 88		2900	2900	2900	2900	2900	2900
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	



1.1.4. Vertex₁₀ Roof Lintel Span Table: Light Roof 25° - 45° (No Face Loading)

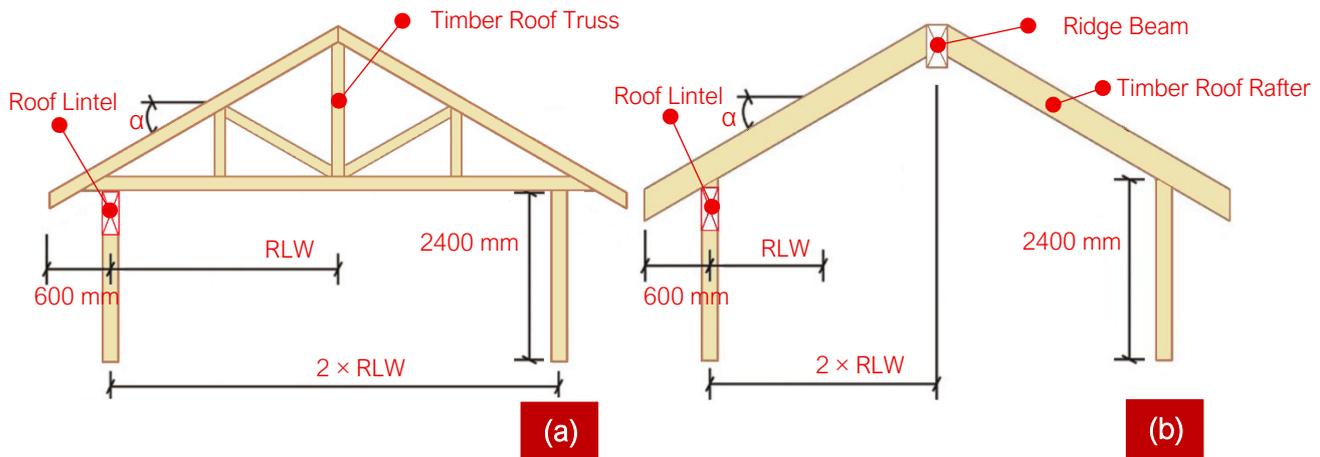


Figure 4: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 4: Red Stag Vertex₁₀ Roof Lintel/Beam Span Table.

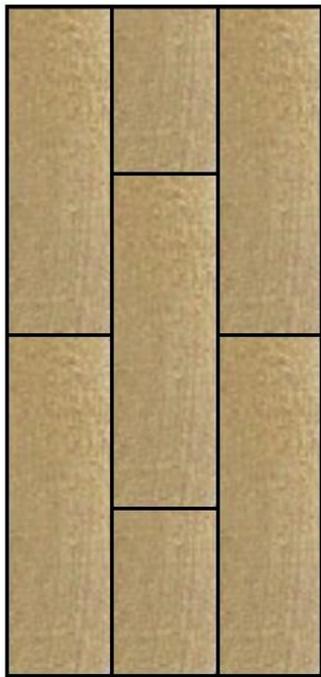
Roof Weight: Light		Roof Pitch α : 25° to 45° Ignoring wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1810	1560	1400	1300	1220	1150
140 x 88		2850	2460	2220	2050	1930	1830
190 x 88		3810	3310	2990	2770	2610	2470
240 x 88		4760	4150	3760	3490	3280	3110
290 x 88		5680	4970	4520	4200	3950	3750
300 x 88		5860	5130	4670	4340	4080	3880
315 x 88		6130	5380	4890	4550	4280	4070
350 x 88		6760	5940	5410	5030	4740	4510
360 x 88		6940	6100	5560	5170	4880	4640
400 x 88		7640	6740	6150	5730	5400	5140
88 x 88	Medium	1810	1560	1400	1300	1220	1150
140 x 88		2850	2460	2220	2050	1930	1830
190 x 88		3810	3310	2990	2770	2610	2470
240 x 88		4760	4150	3760	3490	3280	3110
290 x 88		5680	4970	4520	4200	3950	3750
300 x 88		5860	5130	4670	4340	4080	3880
315 x 88		6130	5380	4890	4550	4280	4070
350 x 88		6760	5940	5410	5030	4740	4510
360 x 88		6940	6100	5560	5170	4880	4640
400 x 88		7640	6740	6150	5730	5400	5140
88 x 88	High	1810	1560	1400	1300	1220	1150
140 x 88		2850	2460	2220	2050	1930	1830
190 x 88		3810	3310	2990	2770	2610	2470
240 x 88		4760	4150	3760	3490	3280	3110
290 x 88		5520	4970	4520	4200	3950	3750
300 x 88		5670	5130	4670	4340	4080	3880
315 x 88		5880	5320	4890	4550	4280	4070
350 x 88		6360	5760	5370	5030	4740	4510
360 x 88		6500	5890	5490	5170	4880	4640
400 x 88		7030	6370	5940	5620	5370	5140



Table 4 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 25° to 45° Ignoring wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1770	1550	1400	1300	1220	1150
140 x 88		2820	2460	2220	2050	1930	1830
190 x 88		3770	3310	2990	2770	2610	2470
240 x 88		4500	4070	3760	3490	3280	3110
290 x 88		5180	4690	4370	4140	3950	3750
300 x 88		5320	4820	4490	4250	4060	3880
315 x 88		5510	4990	4650	4410	4210	4050
350 x 88		5970	5410	5040	4770	4560	4390
360 x 88		6090	5520	5150	4870	4660	4480
400 x 88		6600	5980	5570	5270	5040	4850
88 x 88	Extra High	1660	1460	1330	1230	1160	1100
140 x 88		2650	2320	2110	1960	1850	1760
190 x 88		3600	3150	2870	2670	2510	2390
240 x 88		4290	3880	3620	3370	3170	3010
290 x 88		4940	4480	4170	3950	3770	3630
300 x 88		5070	4590	4280	4050	3870	3730
315 x 88		5260	4760	4440	4200	4010	3860
350 x 88		5690	5150	4800	4550	4350	4180
360 x 88		5810	5260	4910	4640	4440	4270
400 x 88		6290	5700	5310	5020	4800	4620



Section 1.2 Red Stag Vertix₂₀ Roof Lintel Light Roof



Make it better

Red Stag Vertix & GLT_h Design Guide V1.3
November 2025





1.2.1. Vertex₂₀ Roof Lintel Span Table: Light Roof ≤ 25° (Face Loading)

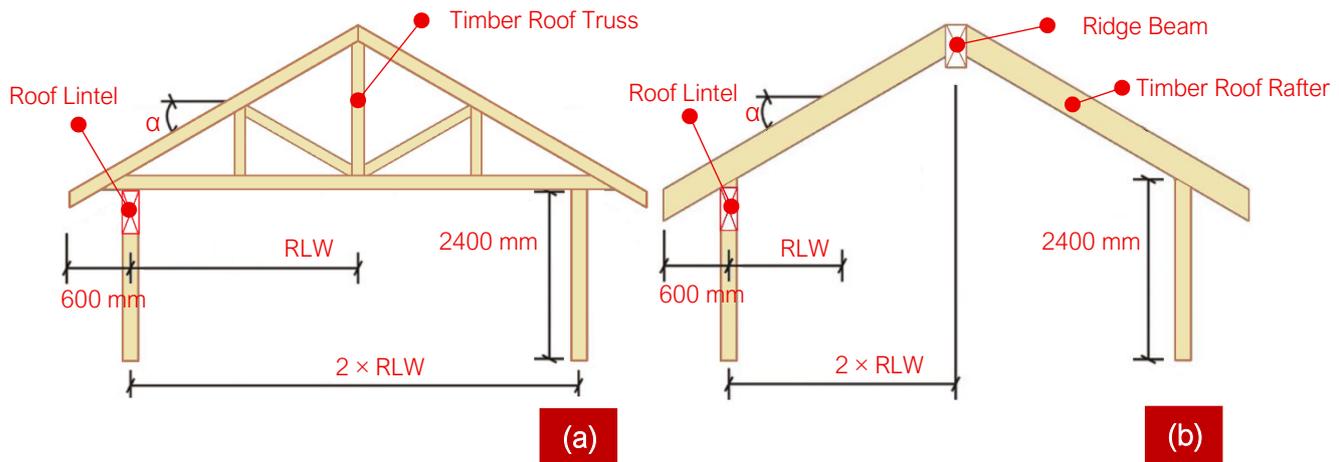


Figure 5: Red Stag Vertex₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 5: Red Stag Vertex ₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	2140	1830	1650	1530	1430	1360
140 x 88		3350	2890	2610	2420	2270	2150
190 x 88		3800	3800	3530	3270	3070	2910
240 x 88		4030	4030	4030	4030	3860	3670
290 x 88		4230	4230	4230	4230	4230	4230
300 x 88		4260	4260	4260	4260	4260	4260
315 x 88		4320	4320	4320	4320	4320	4320
350 x 88		4430	4430	4430	4430	4430	4430
360 x 88		4460	4460	4460	4460	4460	4460
400 x 88		4580	4580	4580	4580	4580	4580
405 x 88		4600	4600	4600	4600	4600	4600
450 x 88		4720	4720	4720	4720	4720	4720
495 x 88		4830	4830	4830	4830	4830	4830
500 x 88		4840	4840	4840	4840	4840	4840
540 x 88		4940	4940	4940	4940	4940	4940
550 x 88		4960	4960	4960	4960	4960	4960
595 x 88		5060	5060	5060	5060	5060	5060
600 x 88	5070	5070	5070	5070	5070	5070	
88 x 88	Medium	2140	1830	1650	1530	1430	1360
140 x 88		3180	2890	2610	2420	2270	2150
190 x 88		3520	3520	3520	3270	3070	2910
240 x 88		3750	3750	3750	3750	3750	3670
290 x 88		3930	3930	3930	3930	3930	3930
300 x 88		3960	3960	3960	3960	3960	3960
315 x 88		4010	4010	4010	4010	4010	4010
350 x 88		4120	4120	4120	4120	4120	4120
360 x 88		4150	4150	4150	4150	4150	4150
400 x 88		4260	4260	4260	4260	4260	4260
405 x 88		4270	4270	4270	4270	4270	4270
450 x 88		4390	4390	4390	4390	4390	4390
495 x 88		4490	4490	4490	4490	4490	4490
500 x 88		4500	4500	4500	4500	4500	4500
540 x 88		4590	4590	4590	4590	4590	4590
550 x 88		4610	4610	4610	4610	4610	4610
595 x 88		4700	4700	4700	4700	4700	4700
600 x 88	4710	4710	4710	4710	4710	4710	



Table 5 (Continued): Red Stag Vertix₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	2090	1830	1650	1530	1430	1360
140 x 88		2830	2830	2610	2420	2270	2150
190 x 88		3130	3130	3130	3130	3070	2910
240 x 88		3390	3390	3390	3390	3390	3390
290 x 88		3600	3600	3600	3600	3600	3600
300 x 88		3630	3630	3630	3630	3630	3630
315 x 88		3680	3680	3680	3680	3680	3680
350 x 88		3780	3780	3780	3780	3780	3780
360 x 88		3800	3800	3800	3800	3800	3800
400 x 88		3910	3910	3910	3910	3910	3910
405 x 88		3920	3920	3920	3920	3920	3920
450 x 88		4020	4020	4020	4020	4020	4020
495 x 88		4120	4120	4120	4120	4120	4120
500 x 88		4130	4130	4130	4130	4130	4130
540 x 88		4210	4210	4210	4210	4210	4210
550 x 88		4230	4230	4230	4230	4230	4230
595 x 88	4310	4310	4310	4310	4310	4310	
600 x 88	4320	4320	4320	4320	4320	4320	
88 x 88	Very High	1920	1680	1530	1420	1340	1270
140 x 88		2600	2600	2440	2270	2130	2030
190 x 88		2880	2880	2880	2880	2790	2650
240 x 88		3110	3110	3110	3110	3110	3110
290 x 88		3310	3310	3310	3310	3310	3310
300 x 88		3350	3350	3350	3350	3350	3350
315 x 88		3400	3400	3400	3400	3400	3400
350 x 88		3530	3530	3530	3530	3530	3530
360 x 88		3560	3560	3560	3560	3560	3560
400 x 88		3660	3660	3660	3660	3660	3660
405 x 88		3680	3680	3680	3680	3680	3680
450 x 88		3770	3770	3770	3770	3770	3770
495 x 88		3860	3860	3860	3860	3860	3860
500 x 88		3870	3870	3870	3870	3870	3870
540 x 88		3950	3950	3950	3950	3950	3950
550 x 88		3970	3970	3970	3970	3970	3970
595 x 88	4050	4050	4050	4050	4050	4050	
600 x 88	4060	4060	4060	4060	4060	4060	
88 x 88	Extra High	1800	1580	1440	1340	1260	1190
140 x 88		2440	2400	2210	2060	1940	1840
190 x 88		2700	2700	2700	2650	2510	2390
240 x 88		2920	2920	2920	2920	2920	2900
290 x 88		3110	3110	3110	3110	3110	3110
300 x 88		3140	3140	3140	3140	3140	3140
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88	3860	3860	3860	3860	3860	3860	
600 x 88	3870	3870	3870	3870	3870	3870	



1.2.2. Vertix₂₀ Roof Lintel Span Table: Light Roof ≤ 25°

(No Face Loading)

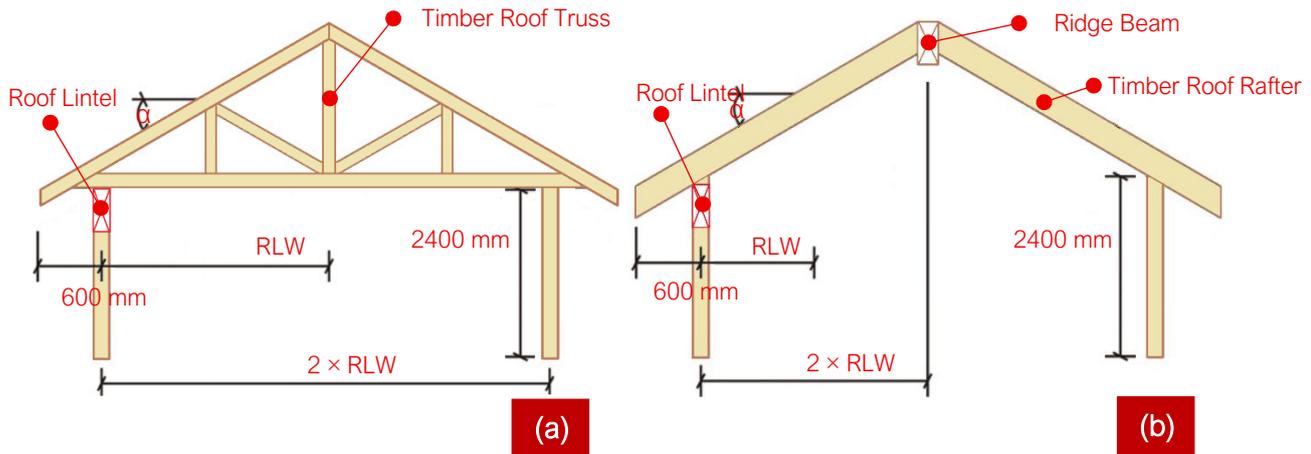


Figure 6: Red Stag Vertix₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 6: Red Stag Vertix ₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25°			Ignoring wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	2140	1830	1650	1530	1430	1360
140 x 88		3350	2890	2610	2420	2270	2150
190 x 88		4490	3890	3530	3270	3070	2910
240 x 88		5600	4880	4430	4110	3860	3670
290 x 88		6690	5850	5320	4940	4650	4420
300 x 88		6900	6040	5490	5100	4800	4560
315 x 88		7220	6330	5760	5350	5040	4790
350 x 88		7920	6990	6370	5930	5580	5310
360 x 88		8090	7180	6550	6090	5740	5460
400 x 88		8760	7930	7240	6740	6360	6050
88 x 88	Medium	2140	1830	1650	1530	1430	1360
140 x 88		3350	2890	2610	2420	2270	2150
190 x 88		4490	3890	3530	3270	3070	2910
240 x 88		5550	4880	4430	4110	3860	3670
290 x 88		6400	5800	5320	4940	4650	4420
300 x 88		6560	5950	5490	5100	4800	4560
315 x 88		6810	6170	5750	5350	5040	4790
350 x 88		7370	6670	6220	5890	5580	5310
360 x 88		7520	6820	6350	6010	5740	5460
400 x 88		8140	7380	6880	6510	6220	5990
88 x 88	High	2090	1830	1650	1530	1430	1360
140 x 88		3330	2890	2610	2420	2270	2150
190 x 88		4270	3870	3530	3270	3070	2910
240 x 88		5090	4610	4300	4070	3860	3670
290 x 88		5870	5310	4950	4690	4480	4310
300 x 88		6020	5450	5080	4810	4600	4420
315 x 88		6240	5660	5270	4990	4770	4590
350 x 88		6760	6120	5700	5400	5160	4970
360 x 88		6900	6250	5830	5510	5270	5070
400 x 88		7470	6770	6300	5970	5700	5490



Table 6 (Continued): Red Stag Vertix₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25°		Ignoring wind face load			
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1920	1680	1530	1420	1340	1270
140 x 88		3060	2680	2440	2270	2130	2030
190 x 88		4010	3630	3310	3080	2900	2760
240 x 88		4770	4330	4030	3810	3650	3480
290 x 88		5500	4990	4650	4400	4200	4050
300 x 88		5640	5110	4770	4510	4310	4150
315 x 88		5860	5300	4940	4680	4470	4300
350 x 88		6340	5740	5350	5060	4840	4660
360 x 88		6470	5860	5460	5170	4940	4760
400 x 88		7010	6350	5910	5600	5350	5150
88 x 88	Extra High	1800	1580	1440	1340	1260	1190
140 x 88		2870	2520	2290	2130	2000	1900
190 x 88		3820	3420	3110	2890	2720	2590
240 x 88		4550	4120	3840	3640	3440	3270
290 x 88		5250	4750	4430	4190	4010	3860
300 x 88		5380	4880	4540	4300	4110	3960
315 x 88		5580	5060	4710	4460	4260	4100
350 x 88		6040	5470	5100	4830	4610	4440
360 x 88		6170	5590	5210	4930	4710	4540
400 x 88	6680	6050	5640	5340	5100	4910	



1.2.3. Vertix₂₀ Roof Lintel Span Table: Light Roof 25° - 45° (Face Loading)

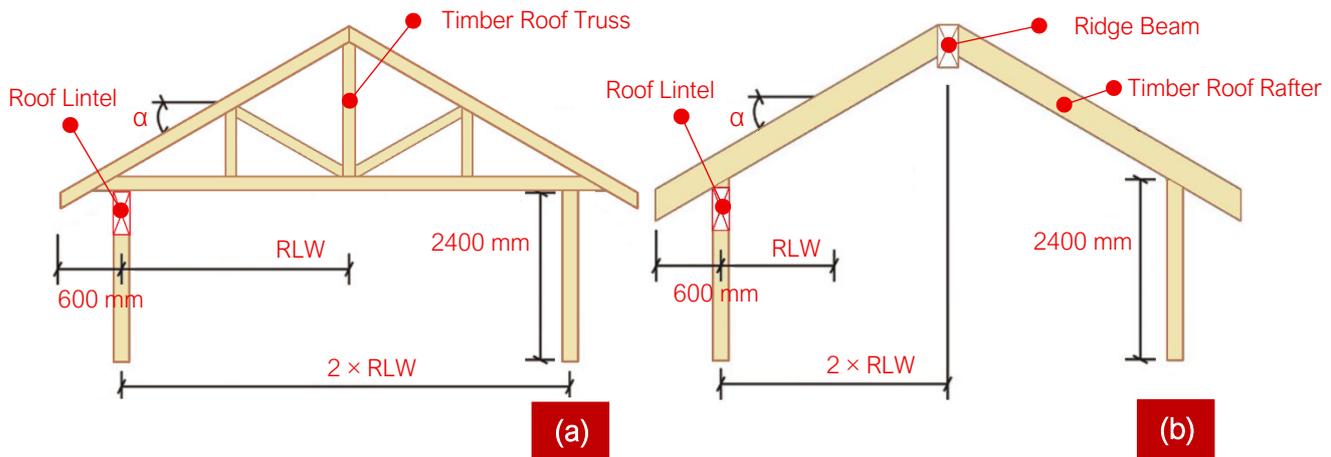


Figure 7: Red Stag Vertix₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 7: Red Stag Vertix ₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1970	1690	1520	1400	1320	1250
140 x 88		3090	2660	2410	2220	2090	1980
190 x 88		3800	3580	3250	3010	2820	2680
240 x 88		4030	4030	4030	3780	3550	3370
290 x 88		4230	4230	4230	4230	4230	4060
300 x 88		4260	4260	4260	4260	4260	4200
315 x 88		4320	4320	4320	4320	4320	4320
350 x 88		4430	4430	4430	4430	4430	4430
360 x 88		4460	4460	4460	4460	4460	4460
400 x 88		4580	4580	4580	4580	4580	4580
405 x 88		4600	4600	4600	4600	4600	4600
450 x 88		4720	4720	4720	4720	4720	4720
495 x 88		4830	4830	4830	4830	4830	4830
500 x 88		4840	4840	4840	4840	4840	4840
540 x 88		4940	4940	4940	4940	4940	4940
550 x 88		4960	4960	4960	4960	4960	4960
595 x 88		5060	5060	5060	5060	5060	5060
600 x 88		5070	5070	5070	5070	5070	5070
88 x 88	Medium	1970	1690	1520	1400	1320	1250
140 x 88		3090	2660	2410	2220	2090	1980
190 x 88		3520	3520	3250	3010	2820	2680
240 x 88		3750	3750	3750	3750	3550	3370
290 x 88		3930	3930	3930	3930	3930	3930
300 x 88		3960	3960	3960	3960	3960	3960
315 x 88		4010	4010	4010	4010	4010	4010
350 x 88		4120	4120	4120	4120	4120	4120
360 x 88		4150	4150	4150	4150	4150	4150
400 x 88		4260	4260	4260	4260	4260	4260
405 x 88		4270	4270	4270	4270	4270	4270
450 x 88		4390	4390	4390	4390	4390	4390
495 x 88		4490	4490	4490	4490	4490	4490
500 x 88		4500	4500	4500	4500	4500	4500
540 x 88		4590	4590	4590	4590	4590	4590
550 x 88		4610	4610	4610	4610	4610	4610
595 x 88		4700	4700	4700	4700	4700	4700
600 x 88		4710	4710	4710	4710	4710	4710



Table 7 (Continued): Red Stag Vertex₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 25° to 45°		Considering wind face load			
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	1970	1690	1520	1400	1320	1250
140 x 88		2830	2660	2410	2220	2090	1980
190 x 88		3130	3130	3130	3010	2820	2680
240 x 88		3390	3390	3390	3390	3390	3370
290 x 88		3600	3600	3600	3600	3600	3600
300 x 88		3630	3630	3630	3630	3630	3630
315 x 88		3680	3680	3680	3680	3680	3680
350 x 88		3780	3780	3780	3780	3780	3780
360 x 88		3800	3800	3800	3800	3800	3800
400 x 88		3910	3910	3910	3910	3910	3910
405 x 88		3920	3920	3920	3920	3920	3920
450 x 88		4020	4020	4020	4020	4020	4020
495 x 88		4120	4120	4120	4120	4120	4120
500 x 88		4130	4130	4130	4130	4130	4130
540 x 88		4210	4210	4210	4210	4210	4210
550 x 88		4230	4230	4230	4230	4230	4230
595 x 88	4310	4310	4310	4310	4310	4310	
600 x 88	4320	4320	4320	4320	4320	4320	
88 x 88	Very High	1920	1680	1520	1400	1320	1250
140 x 88		2600	2600	2410	2220	2090	1970
190 x 88		2880	2880	2880	2870	2700	2560
240 x 88		3110	3110	3110	3110	3110	3110
290 x 88		3310	3310	3310	3310	3310	3310
300 x 88		3350	3350	3350	3350	3350	3350
315 x 88		3400	3400	3400	3400	3400	3400
350 x 88		3530	3530	3530	3530	3530	3530
360 x 88		3560	3560	3560	3560	3560	3560
400 x 88		3660	3660	3660	3660	3660	3660
405 x 88		3680	3680	3680	3680	3680	3680
450 x 88		3770	3770	3770	3770	3770	3770
495 x 88		3860	3860	3860	3860	3860	3860
500 x 88		3870	3870	3870	3870	3870	3870
540 x 88		3950	3950	3950	3950	3950	3950
550 x 88		3970	3970	3970	3970	3970	3970
595 x 88	4050	4050	4050	4050	4050	4050	
600 x 88	4060	4060	4060	4060	4060	4060	
88 x 88	Extra High	1800	1580	1440	1340	1260	1190
140 x 88		2440	2440	2250	2090	1950	1840
190 x 88		2700	2700	2700	2670	2520	2390
240 x 88		2920	2920	2920	2920	2920	2890
290 x 88		3110	3110	3110	3110	3110	3110
300 x 88		3140	3140	3140	3140	3140	3140
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88	3860	3860	3860	3860	3860	3860	
600 x 88	3870	3870	3870	3870	3870	3870	



1.2.4. Vertix₂₀ Roof Lintel Span Table: Light Roof 25° - 45° (No

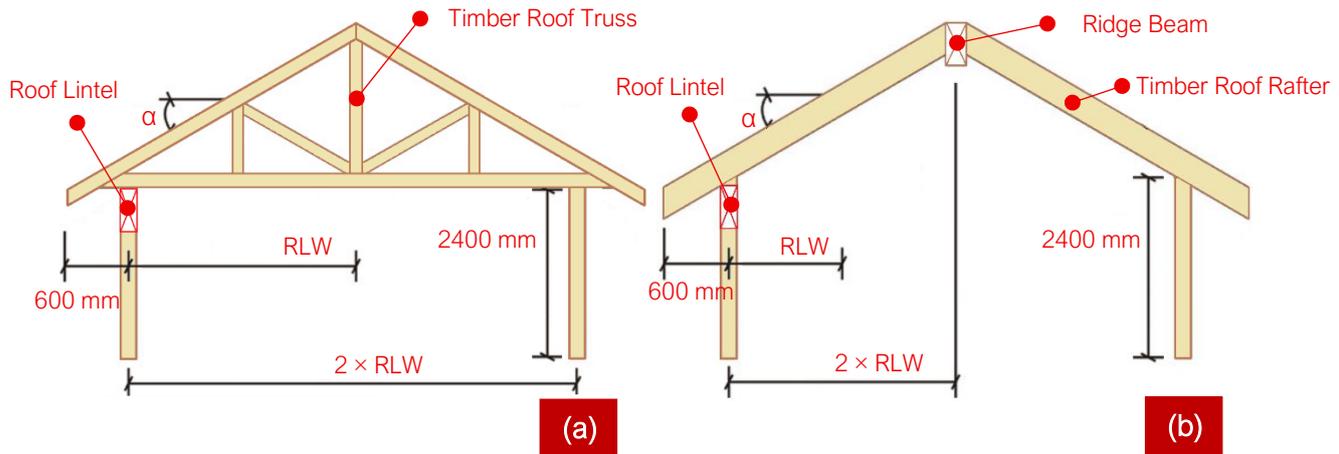


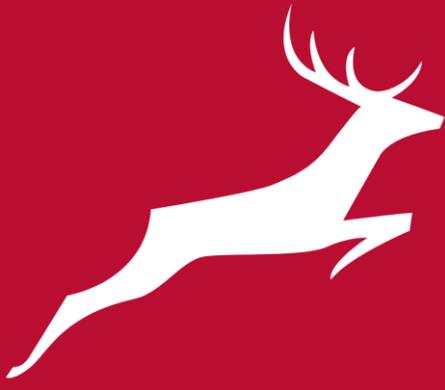
Figure 8: Red Stag Vertix₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 8: Red Stag Vertix₂₀ Roof Lintel Beam Span Table.

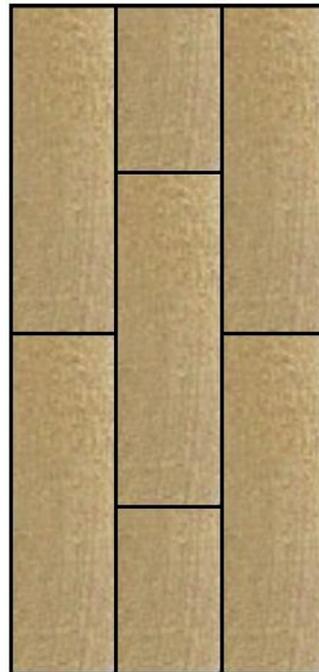
Roof Weight: Light		Roof Pitch α : 25° to 45° Ignoring wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1970	1690	1520	1400	1320	1250
140 x 88		3090	2660	2410	2220	2090	1980
190 x 88		4130	3580	3250	3010	2820	2680
240 x 88		5160	4490	4070	3780	3550	3370
290 x 88		6160	5380	4890	4550	4280	4060
300 x 88		6350	5560	5060	4700	4420	4200
315 x 88		6650	5830	5300	4930	4640	4410
350 x 88		7330	6440	5870	5460	5140	4890
360 x 88		7520	6610	6030	5610	5280	5020
400 x 88		8280	7300	6670	6210	5850	5570
88 x 88	Medium	1970	1690	1520	1400	1320	1250
140 x 88		3090	2660	2410	2220	2090	1980
190 x 88		4130	3580	3250	3010	2820	2680
240 x 88		5160	4490	4070	3780	3550	3370
290 x 88		6160	5380	4890	4550	4280	4060
300 x 88		6350	5560	5060	4700	4420	4200
315 x 88		6650	5830	5300	4930	4640	4410
350 x 88		7330	6440	5870	5460	5140	4890
360 x 88		7520	6610	6030	5610	5280	5020
400 x 88		8140	7300	6670	6210	5850	5570
88 x 88	High	1970	1690	1520	1400	1320	1250
140 x 88		3090	2660	2410	2220	2090	1980
190 x 88		4130	3580	3250	3010	2820	2680
240 x 88		5090	4490	4070	3780	3550	3370
290 x 88		5870	5310	4890	4550	4280	4060
300 x 88		6020	5450	5060	4700	4420	4200
315 x 88		6240	5660	5270	4930	4640	4410
350 x 88		6760	6120	5700	5400	5140	4890
360 x 88		6900	6250	5830	5510	5270	5020
400 x 88		7470	6770	6300	5970	5700	5490



Table 8 (Continued): Red Stag Vertix₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Ignoring wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1920	1680	1520	1400	1320	1250
140 x 88		3060	2660	2410	2220	2090	1980
190 x 88		4010	3580	3250	3010	2820	2680
240 x 88		4770	4330	4030	3780	3550	3370
290 x 88		5500	4990	4650	4400	4200	4050
300 x 88		5640	5110	4770	4510	4310	4150
315 x 88		5860	5300	4940	4680	4470	4300
350 x 88		6340	5740	5350	5060	4840	4660
360 x 88		6470	5860	5460	5170	4940	4760
400 x 88		7010	6350	5910	5600	5350	5150
88 x 88	Extra High	1800	1580	1440	1340	1260	1190
140 x 88		2870	2520	2290	2130	2000	1900
190 x 88		3820	3420	3110	2890	2720	2590
240 x 88		4550	4120	3840	3640	3440	3270
290 x 88		5250	4750	4430	4190	4010	3860
300 x 88		5380	4880	4540	4300	4110	3960
315 x 88		5580	5060	4710	4460	4260	4100
350 x 88		6040	5470	5100	4830	4610	4440
360 x 88		6170	5590	5210	4930	4710	4540
400 x 88		6680	6050	5640	5340	5100	4910



Section 1.3 Red Stag Vertex₁₀ Roof Lintel (Heavy Roof Weight)



Make it better

Red Stag Vertex & GLT_h Design Guide V1.3
November 2025





1.3.1. Vertex₁₀ Roof Lintel Span Table: Heavy Roof ≤ 25° (Face Loading)

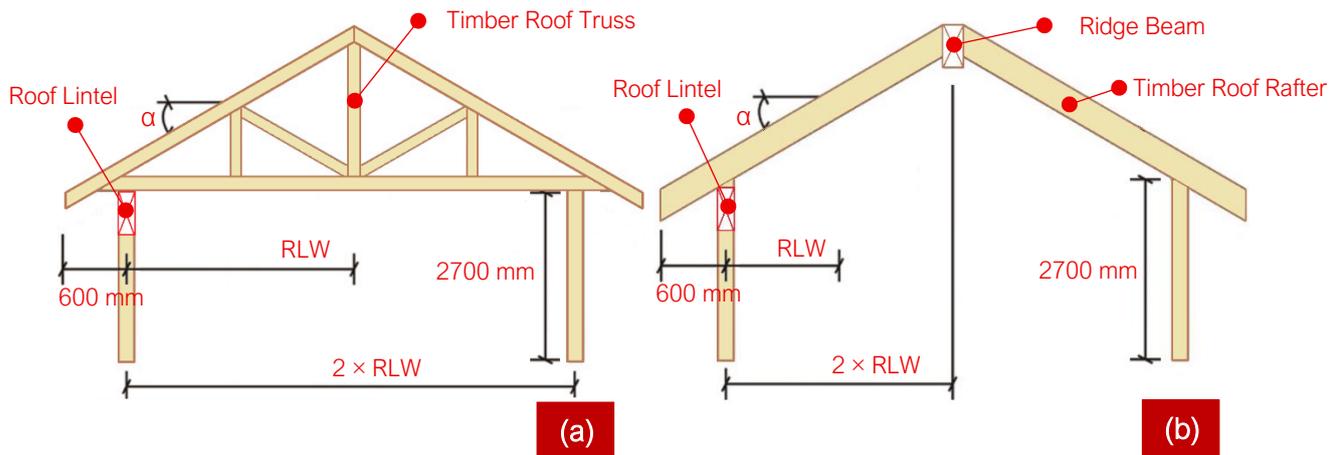


Figure 9: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 9: Red Stag Vertex ₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 0° to 25°				Considering wind face load	
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		3220	2760	2490	2300	2150	2040
240 x 88		3690	3470	3130	2900	2720	2570
290 x 88		3860	3860	3780	3490	3280	3110
300 x 88		3900	3900	3900	3610	3390	3210
315 x 88		3950	3950	3950	3790	3560	3370
350 x 88		4050	4050	4050	4050	3950	3740
360 x 88		4080	4080	4080	4080	4060	3850
400 x 88		4190	4190	4190	4190	4190	4190
405 x 88		4200	4200	4200	4200	4200	4200
450 x 88		4310	4310	4310	4310	4310	4310
495 x 88		4420	4420	4420	4420	4420	4420
500 x 88		4430	4430	4430	4430	4430	4430
540 x 88		4510	4510	4510	4510	4510	4510
550 x 88		4540	4540	4540	4540	4540	4540
595 x 88		4630	4630	4630	4630	4630	4630
600 x 88		4640	4640	4640	4640	4640	4640
88 x 88	Medium	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		3120	2760	2490	2300	2150	2040
240 x 88		3370	3370	3130	2900	2720	2570
290 x 88		3590	3590	3590	3490	3280	3110
300 x 88		3620	3620	3620	3610	3390	3210
315 x 88		3670	3670	3670	3670	3560	3370
350 x 88		3770	3770	3770	3770	3770	3740
360 x 88		3790	3790	3790	3790	3790	3790
400 x 88		3890	3890	3890	3890	3890	3890
405 x 88		3910	3910	3910	3910	3910	3910
450 x 88		4010	4010	4010	4010	4010	4010
495 x 88		4110	4110	4110	4110	4110	4110
500 x 88		4120	4120	4120	4120	4120	4120
540 x 88		4200	4200	4200	4200	4200	4200
550 x 88		4220	4220	4220	4220	4220	4220
595 x 88		4300	4300	4300	4300	4300	4300
600 x 88		4310	4310	4310	4310	4310	4310



Table 9 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°			Considering wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		2780	2760	2490	2300	2150	2040
240 x 88		3000	3000	3000	2900	2720	2570
290 x 88		3200	3200	3200	3200	3200	3110
300 x 88		3240	3240	3240	3240	3240	3210
315 x 88		3290	3290	3290	3290	3290	3290
350 x 88		3410	3410	3410	3410	3410	3410
360 x 88		3440	3440	3440	3440	3440	3440
400 x 88		3560	3560	3560	3560	3560	3560
405 x 88		3580	3580	3580	3580	3580	3580
450 x 88		3680	3680	3680	3680	3680	3680
495 x 88		3770	3770	3770	3770	3770	3770
500 x 88		3780	3780	3780	3780	3780	3780
540 x 88		3850	3850	3850	3850	3850	3850
550 x 88		3870	3870	3870	3870	3870	3870
595 x 88	3940	3940	3940	3940	3940	3940	
600 x 88	3950	3950	3950	3950	3950	3950	
88 x 88	Very High	1510	1290	1160	1070	1000	950
140 x 88		2300	2040	1840	1690	1590	1500
190 x 88		2550	2550	2490	2300	2150	2040
240 x 88		2760	2760	2760	2760	2720	2570
290 x 88		2940	2940	2940	2940	2940	2940
300 x 88		2970	2970	2970	2970	2970	2970
315 x 88		3020	3020	3020	3020	3020	3020
350 x 88		3130	3130	3130	3130	3130	3130
360 x 88		3160	3160	3160	3160	3160	3160
400 x 88		3270	3270	3270	3270	3270	3270
405 x 88		3290	3290	3290	3290	3290	3290
450 x 88		3400	3400	3400	3400	3400	3400
495 x 88		3510	3510	3510	3510	3510	3510
500 x 88		3520	3520	3520	3520	3520	3520
540 x 88		3610	3610	3610	3610	3610	3610
550 x 88		3630	3630	3630	3630	3630	3630
595 x 88	3700	3700	3700	3700	3700	3700	
600 x 88	3710	3710	3710	3710	3710	3710	
88 x 88	Extra High	1510	1290	1160	1070	1000	950
140 x 88		2160	2040	1840	1690	1590	1500
190 x 88		2390	2390	2390	2260	2130	2010
240 x 88		2590	2590	2590	2590	2570	2440
290 x 88		2760	2760	2760	2760	2760	2760
300 x 88		2790	2790	2790	2790	2790	2790
315 x 88		2830	2830	2830	2830	2830	2830
350 x 88		2940	2940	2940	2940	2940	2940
360 x 88		2960	2960	2960	2960	2960	2960
400 x 88		3070	3070	3070	3070	3070	3070
405 x 88		3080	3080	3080	3080	3080	3080
450 x 88		3190	3190	3190	3190	3190	3190
495 x 88		3300	3300	3300	3300	3300	3300
500 x 88		3310	3310	3310	3310	3310	3310
540 x 88		3390	3390	3390	3390	3390	3390
550 x 88		3410	3410	3410	3410	3410	3410
595 x 88	3500	3500	3500	3500	3500	3500	
600 x 88	3510	3510	3510	3510	3510	3510	



1.3.2. Vertex₁₀ Roof Lintel Span Table: Heavy Roof $\leq 25^\circ$ (No Face Loading)

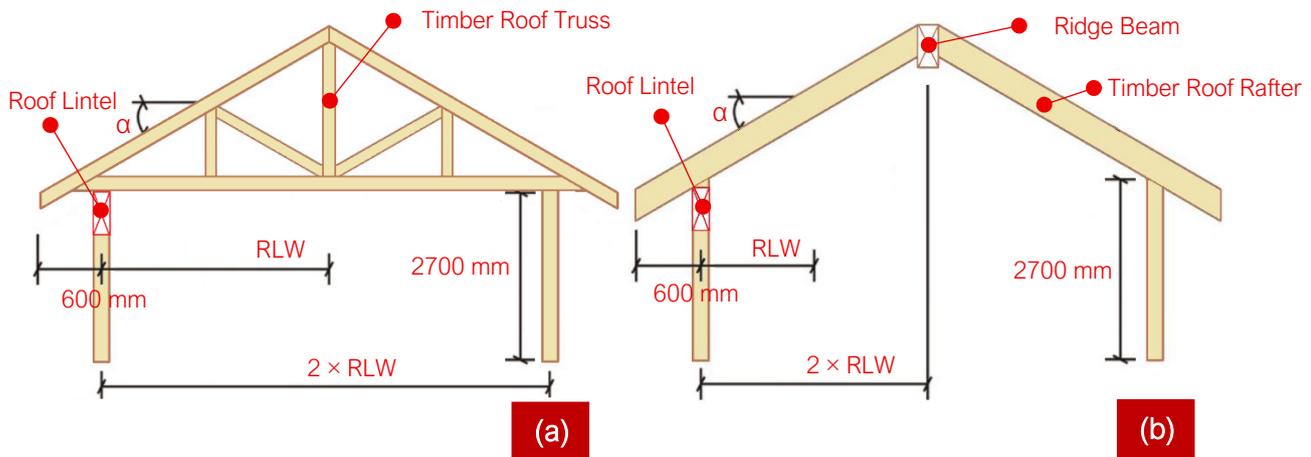


Figure 10: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 10: Red Stag Vertex ₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 0° to 25°			Ignoring wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		3220	2760	2490	2300	2150	2040
240 x 88		4040	3470	3130	2900	2720	2570
290 x 88		4850	4180	3780	3490	3280	3110
300 x 88		5020	4330	3900	3610	3390	3210
315 x 88		5260	4540	4100	3790	3560	3370
350 x 88		5820	5030	4540	4200	3950	3740
360 x 88		5980	5170	4670	4320	4060	3850
400 x 88		6610	5730	5180	4800	4500	4270
88 x 88	Medium	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		3220	2760	2490	2300	2150	2040
240 x 88		4040	3470	3130	2900	2720	2570
290 x 88		4850	4180	3780	3490	3280	3110
300 x 88		5020	4330	3900	3610	3390	3210
315 x 88		5260	4540	4100	3790	3560	3370
350 x 88		5820	5030	4540	4200	3950	3740
360 x 88		5980	5170	4670	4320	4060	3850
400 x 88		6610	5730	5180	4800	4500	4270
88 x 88	High	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		3220	2760	2490	2300	2150	2040
240 x 88		4040	3470	3130	2900	2720	2570
290 x 88		4850	4180	3780	3490	3280	3110
300 x 88		5020	4330	3900	3610	3390	3210
315 x 88		5260	4540	4100	3790	3560	3370
350 x 88		5820	5030	4540	4200	3950	3740
360 x 88		5980	5170	4670	4320	4060	3850
400 x 88		6610	5730	5180	4800	4500	4270



Table 10 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°			Ignoring wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		3220	2760	2490	2300	2150	2040
240 x 88		4040	3470	3130	2900	2720	2570
290 x 88		4850	4180	3780	3490	3280	3110
300 x 88		5020	4330	3900	3610	3390	3210
315 x 88		5260	4540	4100	3790	3560	3370
350 x 88		5820	5030	4540	4200	3950	3740
360 x 88		5980	5170	4670	4320	4060	3850
400 x 88		6600	5730	5180	4800	4500	4270
88 x 88	Extra High	1510	1290	1160	1070	1000	950
140 x 88		2380	2040	1840	1690	1590	1500
190 x 88		3220	2760	2490	2300	2150	2040
240 x 88		4040	3470	3130	2900	2720	2570
290 x 88		4850	4180	3780	3490	3280	3110
300 x 88		5020	4330	3900	3610	3390	3210
315 x 88		5260	4540	4100	3790	3560	3370
350 x 88		5690	5030	4540	4200	3950	3740
360 x 88		5810	5170	4670	4320	4060	3850
400 x 88		6290	5700	5180	4800	4500	4270



1.3.3. Vertex₁₀ Roof Lintel Span Table: Heavy Roof 25° - 45° (Face Loading)

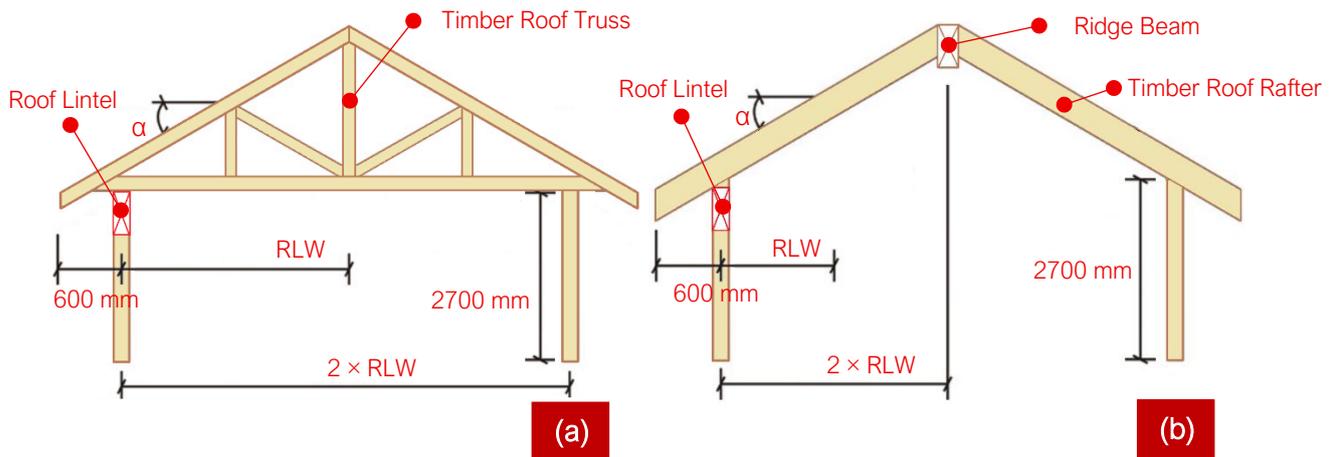


Figure 11: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 11: Red Stag Vertex ₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2960	2540	2290	2110	1980	1880
240 x 88		3690	3200	2880	2670	2500	2370
290 x 88		3860	3850	3480	3210	3020	2860
300 x 88		3900	3900	3590	3320	3120	2960
315 x 88		3950	3950	3770	3490	3270	3110
350 x 88		4050	4050	4050	3870	3630	3450
360 x 88		4080	4080	4080	3980	3740	3540
400 x 88		4190	4190	4190	4190	4150	3930
405 x 88		4200	4200	4200	4200	4200	3980
450 x 88		4310	4310	4310	4310	4310	4310
495 x 88		4420	4420	4420	4420	4420	4420
500 x 88		4430	4430	4430	4430	4430	4430
540 x 88		4510	4510	4510	4510	4510	4510
550 x 88		4540	4540	4540	4540	4540	4540
595 x 88		4630	4630	4630	4630	4630	4630
600 x 88		4640	4640	4640	4640	4640	4640
88 x 88	Medium	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2960	2540	2290	2110	1980	1880
240 x 88		3370	3200	2880	2670	2500	2370
290 x 88		3590	3590	3480	3210	3020	2860
300 x 88		3620	3620	3590	3320	3120	2960
315 x 88		3670	3670	3670	3490	3270	3110
350 x 88		3770	3770	3770	3770	3630	3450
360 x 88		3790	3790	3790	3790	3740	3540
400 x 88		3890	3890	3890	3890	3890	3890
405 x 88		3910	3910	3910	3910	3910	3910
450 x 88		4010	4010	4010	4010	4010	4010
495 x 88		4110	4110	4110	4110	4110	4110
500 x 88		4120	4120	4120	4120	4120	4120
540 x 88		4200	4200	4200	4200	4200	4200
550 x 88		4220	4220	4220	4220	4220	4220
595 x 88		4300	4300	4300	4300	4300	4300
600 x 88		4310	4310	4310	4310	4310	4310



Table 11 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45°			Considering wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2780	2540	2290	2110	1980	1880
240 x 88		3000	3000	2880	2670	2500	2370
290 x 88		3200	3200	3200	3200	3020	2860
300 x 88		3240	3240	3240	3240	3120	2960
315 x 88		3290	3290	3290	3290	3270	3110
350 x 88		3410	3410	3410	3410	3410	3410
360 x 88		3440	3440	3440	3440	3440	3440
400 x 88		3560	3560	3560	3560	3560	3560
405 x 88		3580	3580	3580	3580	3580	3580
450 x 88		3680	3680	3680	3680	3680	3680
495 x 88		3770	3770	3770	3770	3770	3770
500 x 88		3780	3780	3780	3780	3780	3780
540 x 88		3850	3850	3850	3850	3850	3850
550 x 88		3870	3870	3870	3870	3870	3870
595 x 88	3940	3940	3940	3940	3940	3940	
600 x 88	3950	3950	3950	3950	3950	3950	
88 x 88	Very High	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2550	2540	2290	2110	1980	1880
240 x 88		2760	2760	2760	2670	2500	2370
290 x 88		2940	2940	2940	2940	2940	2860
300 x 88		2970	2970	2970	2970	2970	2960
315 x 88		3020	3020	3020	3020	3020	3020
350 x 88		3130	3130	3130	3130	3130	3130
360 x 88		3160	3160	3160	3160	3160	3160
400 x 88		3270	3270	3270	3270	3270	3270
405 x 88		3290	3290	3290	3290	3290	3290
450 x 88		3400	3400	3400	3400	3400	3400
495 x 88		3510	3510	3510	3510	3510	3510
500 x 88		3520	3520	3520	3520	3520	3520
540 x 88		3610	3610	3610	3610	3610	3610
550 x 88		3630	3630	3630	3630	3630	3630
595 x 88	3700	3700	3700	3700	3700	3700	
600 x 88	3710	3710	3710	3710	3710	3710	
88 x 88	Extra High	1390	1180	1060	980	920	870
140 x 88		2160	1880	1690	1560	1460	1380
190 x 88		2390	2390	2290	2110	1980	1880
240 x 88		2590	2590	2590	2590	2470	2340
290 x 88		2760	2760	2760	2760	2760	2730
300 x 88		2790	2790	2790	2790	2790	2790
315 x 88		2830	2830	2830	2830	2830	2830
350 x 88		2940	2940	2940	2940	2940	2940
360 x 88		2960	2960	2960	2960	2960	2960
400 x 88		3070	3070	3070	3070	3070	3070
405 x 88		3080	3080	3080	3080	3080	3080
450 x 88		3190	3190	3190	3190	3190	3190
495 x 88		3300	3300	3300	3300	3300	3300
500 x 88		3310	3310	3310	3310	3310	3310
540 x 88		3390	3390	3390	3390	3390	3390
550 x 88		3410	3410	3410	3410	3410	3410
595 x 88	3500	3500	3500	3500	3500	3500	
600 x 88	3510	3510	3510	3510	3510	3510	



1.3.4. Vertex₁₀ Roof Lintel Span Table: Heavy Roof >25° - 45° (No Face Loading)

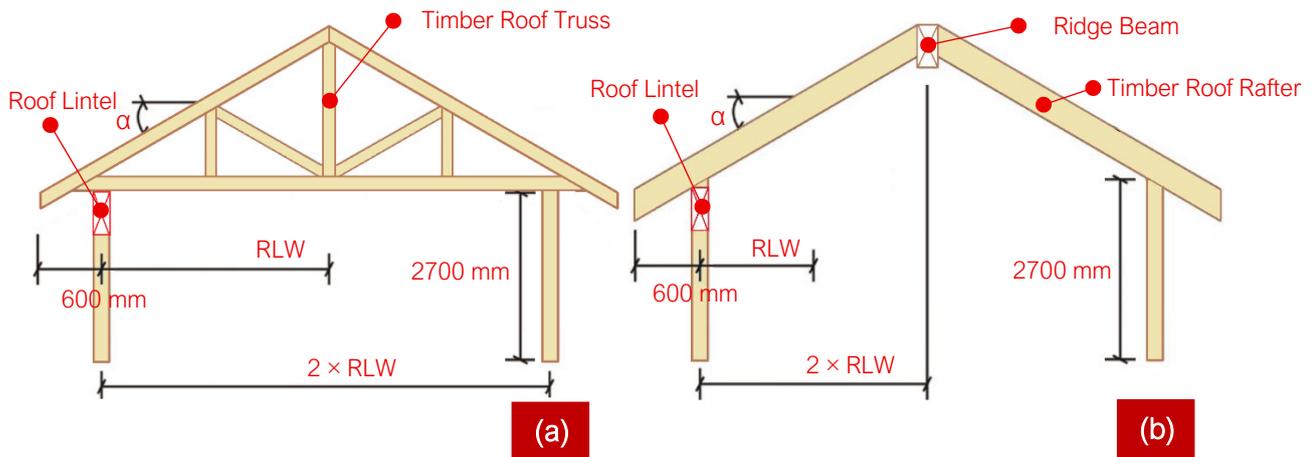


Figure 12: Red Stag Vertex₁₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

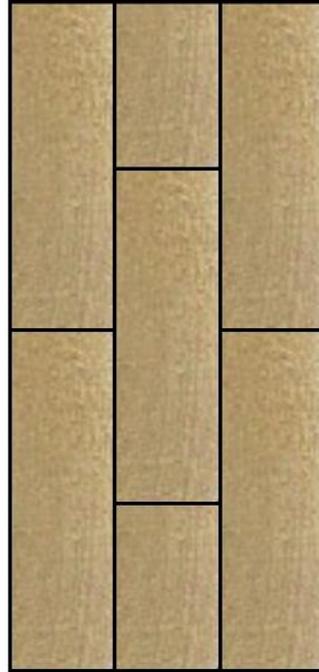
Table 12: Red Stag Vertex ₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45°			Ignoring wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2960	2540	2290	2110	1980	1880
240 x 88		3720	3200	2880	2670	2500	2370
290 x 88		4470	3850	3480	3210	3020	2860
300 x 88		4620	3980	3590	3320	3120	2960
315 x 88		4840	4180	3770	3490	3270	3110
350 x 88		5360	4630	4180	3870	3630	3450
360 x 88		5500	4760	4300	3980	3740	3540
400 x 88		6090	5270	4770	4410	4150	3930
88 x 88	Medium	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2960	2540	2290	2110	1980	1880
240 x 88		3720	3200	2880	2670	2500	2370
290 x 88		4470	3850	3480	3210	3020	2860
300 x 88		4620	3980	3590	3320	3120	2960
315 x 88		4840	4180	3770	3490	3270	3110
350 x 88		5360	4630	4180	3870	3630	3450
360 x 88		5500	4760	4300	3980	3740	3540
400 x 88		6090	5270	4770	4410	4150	3930
88 x 88	High	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2960	2540	2290	2110	1980	1880
240 x 88		3720	3200	2880	2670	2500	2370
290 x 88		4470	3850	3480	3210	3020	2860
300 x 88		4620	3980	3590	3320	3120	2960
315 x 88		4840	4180	3770	3490	3270	3110
350 x 88		5360	4630	4180	3870	3630	3450
360 x 88		5500	4760	4300	3980	3740	3540
400 x 88		6090	5270	4770	4410	4150	3930



Table 12 (Continued): Red Stag Vertix₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45°		Ignoring wind face load			
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2960	2540	2290	2110	1980	1880
240 x 88		3720	3200	2880	2670	2500	2370
290 x 88		4470	3850	3480	3210	3020	2860
300 x 88		4620	3980	3590	3320	3120	2960
315 x 88		4840	4180	3770	3490	3270	3110
350 x 88		5360	4630	4180	3870	3630	3450
360 x 88		5500	4760	4300	3980	3740	3540
400 x 88		6090	5270	4770	4410	4150	3930
88 x 88	Extra High	1390	1180	1060	980	920	870
140 x 88		2190	1880	1690	1560	1460	1380
190 x 88		2960	2540	2290	2110	1980	1880
240 x 88		3720	3200	2880	2670	2500	2370
290 x 88		4470	3850	3480	3210	3020	2860
300 x 88		4620	3980	3590	3320	3120	2960
315 x 88		4840	4180	3770	3490	3270	3110
350 x 88		5360	4630	4180	3870	3630	3450
360 x 88		5500	4760	4300	3980	3740	3540
400 x 88		6090	5270	4770	4410	4150	3930

Section 1.4 Red Stag Vertix₂₀ Roof Lintel (Heavy Roof Weight)

The initial lintel span table is based on wind face loading considerations, while the following span table excludes wind face loading.



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Red Stag Vertix & GLT_h Design Guide V1.3
November 2025





1.4.1. Vertix₂₀ Roof Lintel Span Table: Heavy Roof ≤ 25° (Face Loading)

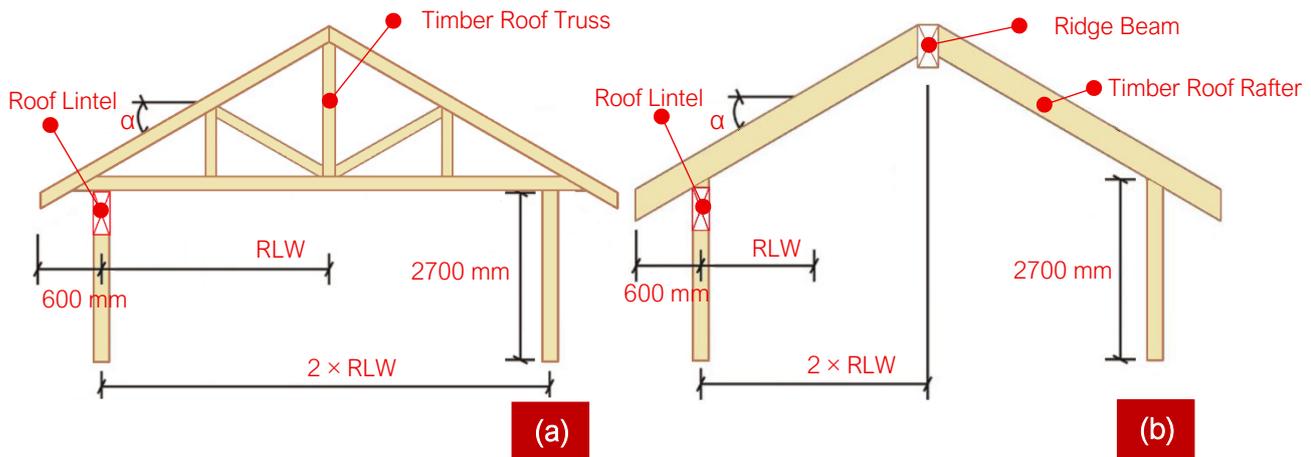


Figure 13: Red Stag Vertix₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 13: Red Stag Vertix ₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 0° to 25°					
		Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3490	2990	2690	2490	2330	2210
240 x 88		3910	3770	3400	3140	2940	2790
290 x 88		4100	4100	4090	3780	3550	3370
300 x 88		4140	4140	4140	3910	3670	3480
315 x 88		4190	4190	4190	4110	3850	3660
350 x 88		4300	4300	4300	4300	4280	4060
360 x 88		4330	4330	4330	4330	4330	4170
400 x 88		4450	4450	4450	4450	4450	4450
405 x 88		4460	4460	4460	4460	4460	4460
450 x 88		4580	4580	4580	4580	4580	4580
495 x 88		4690	4690	4690	4690	4690	4690
500 x 88		4700	4700	4700	4700	4700	4700
540 x 88		4790	4790	4790	4790	4790	4790
550 x 88		4820	4820	4820	4820	4820	4820
595 x 88		4910	4910	4910	4910	4910	4910
600 x 88		4920	4920	4920	4920	4920	4920
88 x 88	Medium	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3380	2990	2690	2490	2330	2210
240 x 88		3640	3640	3400	3140	2940	2790
290 x 88		3820	3820	3820	3780	3550	3370
300 x 88		3850	3850	3850	3850	3670	3480
315 x 88		3900	3900	3900	3900	3850	3660
350 x 88		4000	4000	4000	4000	4000	4000
360 x 88		4030	4030	4030	4030	4030	4030
400 x 88		4140	4140	4140	4140	4140	4140
405 x 88		4150	4150	4150	4150	4150	4150
450 x 88		4260	4260	4260	4260	4260	4260
495 x 88		4360	4360	4360	4360	4360	4360
500 x 88		4370	4370	4370	4370	4370	4370
540 x 88		4460	4460	4460	4460	4460	4460
550 x 88		4480	4480	4480	4480	4480	4480
595 x 88		4570	4570	4570	4570	4570	4570
600 x 88		4580	4580	4580	4580	4580	4580



Table 13 (Continued): Red Stag Vertex₂₀ Roof Lintel Beam Span Table.

Roof Weight: Heavy		Roof Pitch α : 0° to 25°					
		Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3010	2990	2690	2490	2330	2210
240 x 88		3260	3260	3260	3140	2940	2790
290 x 88		3470	3470	3470	3470	3470	3370
300 x 88		3510	3510	3510	3510	3510	3480
315 x 88		3560	3560	3560	3560	3560	3560
350 x 88		3670	3670	3670	3670	3670	3670
360 x 88		3690	3690	3690	3690	3690	3690
400 x 88		3790	3790	3790	3790	3790	3790
405 x 88		3800	3800	3800	3800	3800	3800
450 x 88		3910	3910	3910	3910	3910	3910
495 x 88		4000	4000	4000	4000	4000	4000
500 x 88		4010	4010	4010	4010	4010	4010
540 x 88		4090	4090	4090	4090	4090	4090
550 x 88		4110	4110	4110	4110	4110	4110
595 x 88	4190	4190	4190	4190	4190	4190	
600 x 88	4200	4200	4200	4200	4200	4200	
88 x 88	Very High	1630	1390	1250	1160	1080	1020
140 x 88		2500	2210	1990	1840	1720	1630
190 x 88		2760	2760	2690	2490	2330	2210
240 x 88		2990	2990	2990	2990	2930	2780
290 x 88		3180	3180	3180	3180	3180	3180
300 x 88		3220	3220	3220	3220	3220	3220
315 x 88		3270	3270	3270	3270	3270	3270
350 x 88		3390	3390	3390	3390	3390	3390
360 x 88		3420	3420	3420	3420	3420	3420
400 x 88		3540	3540	3540	3540	3540	3540
405 x 88		3560	3560	3560	3560	3560	3560
450 x 88		3660	3660	3660	3660	3660	3660
495 x 88		3750	3750	3750	3750	3750	3750
500 x 88		3760	3760	3760	3760	3760	3760
540 x 88		3830	3830	3830	3830	3830	3830
550 x 88		3850	3850	3850	3850	3850	3850
595 x 88	3930	3930	3930	3930	3930	3930	
600 x 88	3940	3940	3940	3940	3940	3940	
88 x 88	Extra High	1630	1390	1250	1160	1080	1020
140 x 88		2340	2210	1990	1840	1720	1630
190 x 88		2590	2590	2590	2420	2270	2150
240 x 88		2800	2800	2800	2800	2750	2610
290 x 88		2990	2990	2990	2990	2990	2990
300 x 88		3020	3020	3020	3020	3020	3020
315 x 88		3070	3070	3070	3070	3070	3070
350 x 88		3180	3180	3180	3180	3180	3180
360 x 88		3210	3210	3210	3210	3210	3210
400 x 88		3330	3330	3330	3330	3330	3330
405 x 88		3340	3340	3340	3340	3340	3340
450 x 88		3460	3460	3460	3460	3460	3460
495 x 88		3570	3570	3570	3570	3570	3570
500 x 88		3580	3580	3580	3580	3580	3580
540 x 88		3660	3660	3660	3660	3660	3660
550 x 88		3670	3670	3670	3670	3670	3670
595 x 88	3750	3750	3750	3750	3750	3750	
600 x 88	3750	3750	3750	3750	3750	3750	



1.4.2. Vertix₂₀ Roof Lintel Span Table: Heavy Roof $\leq 25^\circ$ (No Face Loading)

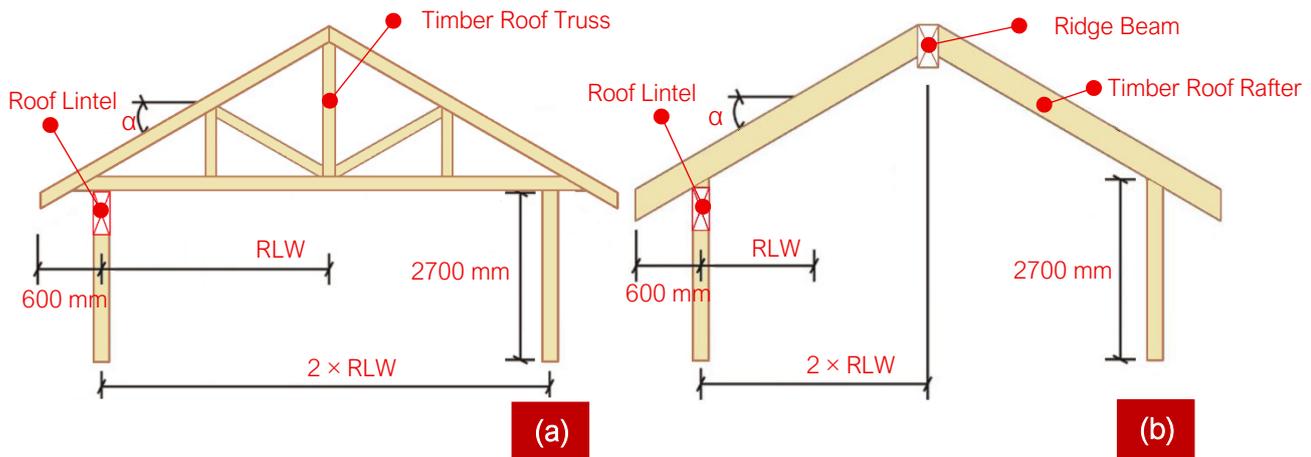


Figure 14: Red Stag Vertix₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 14: Red Stag Vertix ₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 0° to 25° Ignoring wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3490	2990	2690	2490	2330	2210
240 x 88		4380	3770	3400	3140	2940	2790
290 x 88		5260	4530	4090	3780	3550	3370
300 x 88		5430	4690	4230	3910	3670	3480
315 x 88		5700	4920	4440	4110	3850	3660
350 x 88		6300	5450	4920	4560	4280	4060
360 x 88		6480	5600	5060	4680	4400	4170
400 x 88		7170	6200	5610	5200	4880	4630
88 x 88	Medium	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3490	2990	2690	2490	2330	2210
240 x 88		4380	3770	3400	3140	2940	2790
290 x 88		5260	4530	4090	3780	3550	3370
300 x 88		5430	4690	4230	3910	3670	3480
315 x 88		5700	4920	4440	4110	3850	3660
350 x 88		6300	5450	4920	4560	4280	4060
360 x 88		6480	5600	5060	4680	4400	4170
400 x 88		7170	6200	5610	5200	4880	4630
88 x 88	High	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3490	2990	2690	2490	2330	2210
240 x 88		4380	3770	3400	3140	2940	2790
290 x 88		5260	4530	4090	3780	3550	3370
300 x 88		5430	4690	4230	3910	3670	3480
315 x 88		5700	4920	4440	4110	3850	3660
350 x 88		6300	5450	4920	4560	4280	4060
360 x 88		6480	5600	5060	4680	4400	4170
400 x 88		7170	6200	5610	5200	4880	4630



Table 14 (Continued): Red Stag Vertex₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°		Ignoring wind face load			
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3490	2990	2690	2490	2330	2210
240 x 88		4380	3770	3400	3140	2940	2790
290 x 88		5260	4530	4090	3780	3550	3370
300 x 88		5430	4690	4230	3910	3670	3480
315 x 88		5700	4920	4440	4110	3850	3660
350 x 88		6300	5450	4920	4560	4280	4060
360 x 88		6470	5600	5060	4680	4400	4170
400 x 88		7010	6200	5610	5200	4880	4630
88 x 88	Extra High	1630	1390	1250	1160	1080	1020
140 x 88		2580	2210	1990	1840	1720	1630
190 x 88		3490	2990	2690	2490	2330	2210
240 x 88		4380	3770	3400	3140	2940	2790
290 x 88		5250	4530	4090	3780	3550	3370
300 x 88		5380	4690	4230	3910	3670	3480
315 x 88		5580	4920	4440	4110	3850	3660
350 x 88		6040	5450	4920	4560	4280	4060
360 x 88		6170	5590	5060	4680	4400	4170
400 x 88		6680	6050	5610	5200	4880	4630



1.4.3. Vertix₂₀ Roof Lintel Span Table: Heavy Roof 25° - 45° (Face Loading)

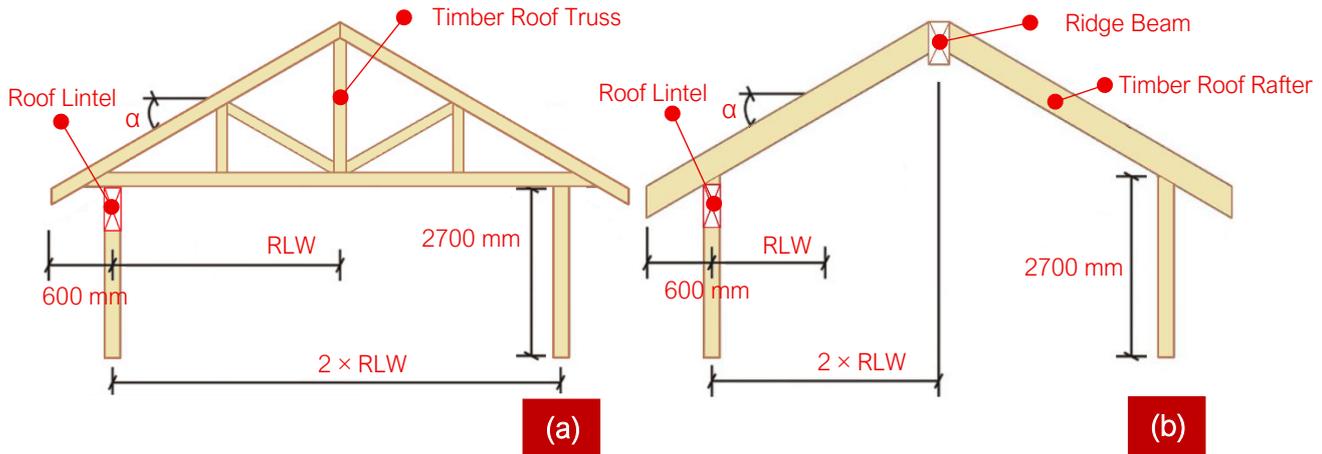


Figure 15: Red Stag Vertix₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 15: Red Stag Vertix ₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3210	2750	2480	2290	2150	2040
240 x 88		3910	3470	3130	2890	2710	2570
290 x 88		4100	4100	3770	3480	3270	3100
300 x 88		4140	4140	3890	3600	3380	3210
315 x 88		4190	4190	4090	3780	3550	3360
350 x 88		4300	4300	4300	4190	3940	3730
360 x 88		4330	4330	4330	4310	4050	3840
400 x 88		4450	4450	4450	4450	4450	4260
405 x 88		4460	4460	4460	4460	4460	4320
450 x 88		4580	4580	4580	4580	4580	4580
495 x 88		4690	4690	4690	4690	4690	4690
500 x 88		4700	4700	4700	4700	4700	4700
540 x 88		4790	4790	4790	4790	4790	4790
550 x 88		4820	4820	4820	4820	4820	4820
595 x 88		4910	4910	4910	4910	4910	4910
600 x 88		4920	4920	4920	4920	4920	4920
88 x 88	Medium	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3210	2750	2480	2290	2150	2040
240 x 88		3640	3470	3130	2890	2710	2570
290 x 88		3820	3820	3770	3480	3270	3100
300 x 88		3850	3850	3850	3600	3380	3210
315 x 88		3900	3900	3900	3780	3550	3360
350 x 88		4000	4000	4000	4000	3940	3730
360 x 88		4030	4030	4030	4030	4030	3840
400 x 88		4140	4140	4140	4140	4140	4140
405 x 88		4150	4150	4150	4150	4150	4150
450 x 88		4260	4260	4260	4260	4260	4260
495 x 88		4360	4360	4360	4360	4360	4360
500 x 88		4370	4370	4370	4370	4370	4370
540 x 88		4460	4460	4460	4460	4460	4460
550 x 88		4480	4480	4480	4480	4480	4480
595 x 88		4570	4570	4570	4570	4570	4570
600 x 88		4580	4580	4580	4580	4580	4580



Table 15 (Continued): Red Stag Vertix₂₀ Roof Lintel Beam Span Table.

Roof Weight: Heavy		Roof Pitch α : 25° to 45° Considering wind face load					
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	High	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3010	2750	2480	2290	2150	2040
240 x 88		3260	3260	3130	2890	2710	2570
290 x 88		3470	3470	3470	3470	3270	3100
300 x 88		3510	3510	3510	3510	3380	3210
315 x 88		3560	3560	3560	3560	3550	3360
350 x 88		3670	3670	3670	3670	3670	3670
360 x 88		3690	3690	3690	3690	3690	3690
400 x 88		3790	3790	3790	3790	3790	3790
405 x 88		3800	3800	3800	3800	3800	3800
450 x 88		3910	3910	3910	3910	3910	3910
495 x 88		4000	4000	4000	4000	4000	4000
500 x 88		4010	4010	4010	4010	4010	4010
540 x 88		4090	4090	4090	4090	4090	4090
550 x 88		4110	4110	4110	4110	4110	4110
595 x 88	4190	4190	4190	4190	4190	4190	
600 x 88	4200	4200	4200	4200	4200	4200	
88 x 88	Very High	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		2760	2750	2480	2290	2150	2040
240 x 88		2990	2990	2990	2890	2710	2570
290 x 88		3180	3180	3180	3180	3180	3100
300 x 88		3220	3220	3220	3220	3220	3190
315 x 88		3270	3270	3270	3270	3270	3270
350 x 88		3390	3390	3390	3390	3390	3390
360 x 88		3420	3420	3420	3420	3420	3420
400 x 88		3540	3540	3540	3540	3540	3540
405 x 88		3560	3560	3560	3560	3560	3560
450 x 88		3660	3660	3660	3660	3660	3660
495 x 88		3750	3750	3750	3750	3750	3750
500 x 88		3760	3760	3760	3760	3760	3760
540 x 88		3830	3830	3830	3830	3830	3830
550 x 88		3850	3850	3850	3850	3850	3850
595 x 88	3930	3930	3930	3930	3930	3930	
600 x 88	3940	3940	3940	3940	3940	3940	
88 x 88	Extra High	1500	1280	1150	1060	1000	940
140 x 88		2340	2040	1830	1690	1580	1500
190 x 88		2590	2590	2480	2290	2150	2040
240 x 88		2800	2800	2800	2800	2640	2500
290 x 88		2990	2990	2990	2990	2990	2920
300 x 88		3020	3020	3020	3020	3020	3000
315 x 88		3070	3070	3070	3070	3070	3070
350 x 88		3180	3180	3180	3180	3180	3180
360 x 88		3210	3210	3210	3210	3210	3210
400 x 88		3330	3330	3330	3330	3330	3330
405 x 88		3340	3340	3340	3340	3340	3340
450 x 88		3460	3460	3460	3460	3460	3460
495 x 88		3570	3570	3570	3570	3570	3570
500 x 88		3580	3580	3580	3580	3580	3580
540 x 88		3660	3660	3660	3660	3660	3660
550 x 88		3670	3670	3670	3670	3670	3670
595 x 88	3750	3750	3750	3750	3750	3750	
600 x 88	3750	3750	3750	3750	3750	3750	



1.4.4. Vertix₂₀ Roof Lintel Span Table: Heavy Roof 25° - 45°

(No Face Loading)

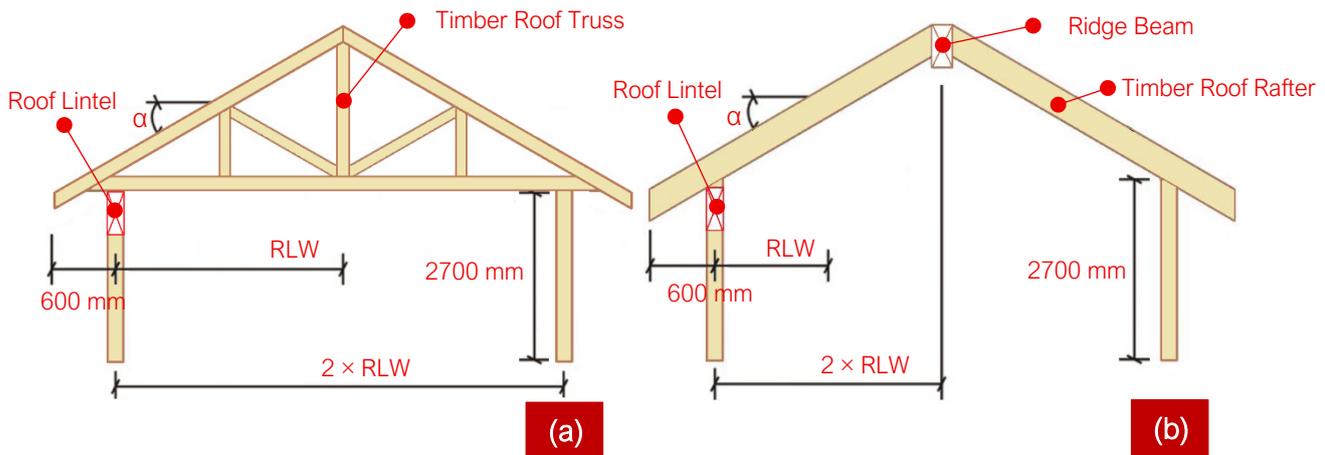


Figure 16: Red Stag Vertix₂₀ roof lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 16: Red Stag Vertix ₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45°			Ignoring wind face load		
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Low	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3210	2750	2480	2290	2150	2040
240 x 88		4030	3470	3130	2890	2710	2570
290 x 88		4840	4170	3770	3480	3270	3100
300 x 88		5000	4310	3890	3600	3380	3210
315 x 88		5240	4520	4090	3780	3550	3360
350 x 88		5800	5010	4530	4190	3940	3730
360 x 88		5960	5150	4660	4310	4050	3840
400 x 88		6600	5710	5170	4780	4490	4260
88 x 88	Medium	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3210	2750	2480	2290	2150	2040
240 x 88		4030	3470	3130	2890	2710	2570
290 x 88		4840	4170	3770	3480	3270	3100
300 x 88		5000	4310	3890	3600	3380	3210
315 x 88		5240	4520	4090	3780	3550	3360
350 x 88		5800	5010	4530	4190	3940	3730
360 x 88		5960	5150	4660	4310	4050	3840
400 x 88		6600	5710	5170	4780	4490	4260
88 x 88	High	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3210	2750	2480	2290	2150	2040
240 x 88		4030	3470	3130	2890	2710	2570
290 x 88		4840	4170	3770	3480	3270	3100
300 x 88		5000	4310	3890	3600	3380	3210
315 x 88		5240	4520	4090	3780	3550	3360
350 x 88		5800	5010	4530	4190	3940	3730
360 x 88		5960	5150	4660	4310	4050	3840
400 x 88		6600	5710	5170	4780	4490	4260

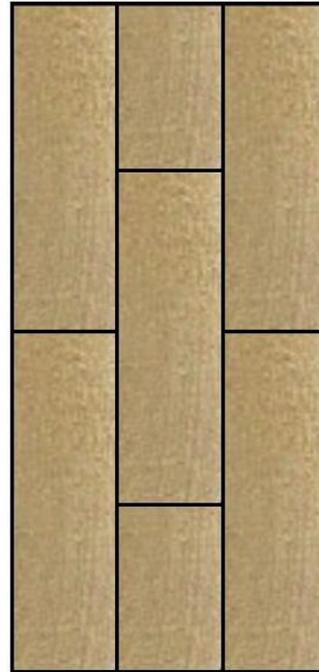


Table 16 (Continued): Red Stag Vertix₂₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45°		Ignoring wind face load			
Beam Size mm x mm	Wind Zone NZS3604	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	Very High	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3210	2750	2480	2290	2150	2040
240 x 88		4030	3470	3130	2890	2710	2570
290 x 88		4840	4170	3770	3480	3270	3100
300 x 88		5000	4310	3890	3600	3380	3210
315 x 88		5240	4520	4090	3780	3550	3360
350 x 88		5800	5010	4530	4190	3940	3730
360 x 88		5960	5150	4660	4310	4050	3840
400 x 88		6600	5710	5170	4780	4490	4260
88 x 88	Extra High	1500	1280	1150	1060	1000	940
140 x 88		2380	2040	1830	1690	1580	1500
190 x 88		3210	2750	2480	2290	2150	2040
240 x 88		4030	3470	3130	2890	2710	2570
290 x 88		4840	4170	3770	3480	3270	3100
300 x 88		5000	4310	3890	3600	3380	3210
315 x 88		5240	4520	4090	3780	3550	3360
350 x 88		5800	5010	4530	4190	3940	3730
360 x 88		5960	5150	4660	4310	4050	3840
400 x 88		6600	5710	5170	4780	4490	4260

Section 1.5 Red Stag Vertix₁₀ Floor Lintel (Light Roof Weight)



The initial lintel span table is based on wind face loading considerations, while the following span table excludes wind face loading.



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November 2025





1.5.1. Vertix₁₀ Floor Lintel Span Table: Light Roof $\leq 25^\circ$ (Face Loading)

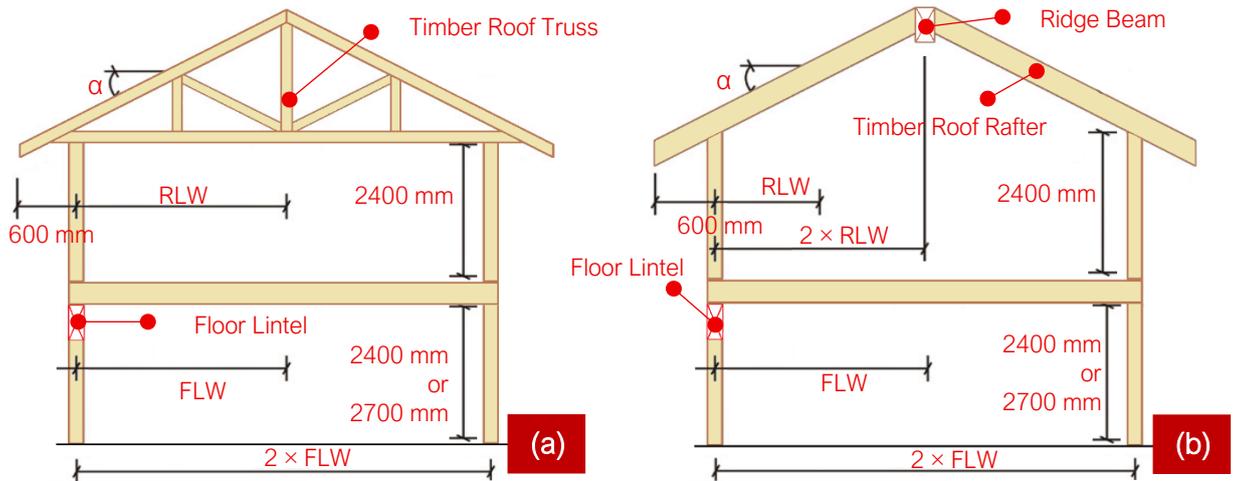


Figure 17: Red Stag Vertix₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 17: Red Stag Vertix ₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1150	1110	1070	1040	1010	990
140 x 88		1830	1760	1710	1660	1610	1570
190 x 88		2480	2390	2310	2250	2190	2130
240 x 88		2690	2690	2690	2690	2690	2600
290 x 88		2870	2870	2870	2870	2870	2870
300 x 88		2900	2900	2900	2900	2900	2900
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640
88 x 88	2000	1020	1000	970	950	930	910
140 x 88		1630	1590	1550	1510	1480	1450
190 x 88		2210	2150	2100	2050	2010	1970
240 x 88		2690	2690	2650	2590	2540	2490
290 x 88		2870	2870	2870	2870	2870	2870
300 x 88		2900	2900	2900	2900	2900	2900
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640



Table 17 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	940	920	900	890	870	860
140 x 88		1490	1460	1440	1410	1390	1360
190 x 88		2030	1990	1950	1910	1880	1850
240 x 88		2560	2510	2460	2410	2370	2340
290 x 88		2870	2870	2870	2870	2870	2820
300 x 88		2900	2900	2900	2900	2900	2900
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	
88 x 88	4000	880	860	850	840	820	810
140 x 88		1390	1370	1350	1330	1310	1290
190 x 88		1890	1860	1830	1800	1780	1750
240 x 88		2390	2350	2310	2280	2250	2220
290 x 88		2870	2840	2790	2750	2710	2680
300 x 88		2900	2900	2890	2850	2810	2770
315 x 88		2950	2950	2950	2950	2940	2900
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	
88 x 88	5000	830	820	800	790	780	770
140 x 88		1320	1300	1280	1270	1250	1230
190 x 88		1790	1760	1740	1720	1700	1680
240 x 88		2260	2230	2200	2170	2140	2120
290 x 88		2730	2690	2650	2620	2590	2560
300 x 88		2820	2780	2740	2710	2680	2640
315 x 88		2950	2920	2880	2840	2810	2780
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	



Table 17 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	6000	780	770	760	760	750	740
140 x 88		1240	1230	1220	1210	1200	1190
190 x 88		1690	1670	1660	1640	1620	1610
240 x 88		2130	2110	2090	2070	2050	2030
290 x 88		2580	2550	2530	2500	2480	2460
300 x 88		2660	2640	2610	2590	2560	2540
315 x 88		2790	2760	2730	2710	2680	2660
350 x 88		3050	3040	3010	2980	2950	2920
360 x 88		3080	3080	3080	3060	3030	3000
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88	3640	3640	3640	3640	3640	3640	



1.5.2. Vertix₁₀ Floor Lintel Span Table: Light Roof $\leq 25^\circ$ (No Face Loading)

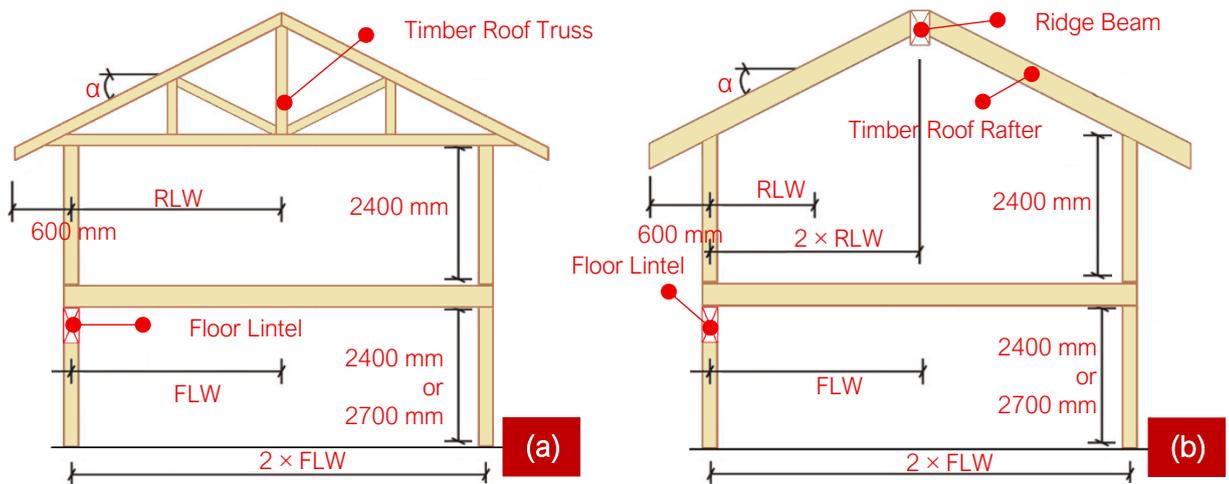


Figure 18: Red Stag Vertix₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 18: Red Stag Vertix ₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25°			Ignoring wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1150	1110	1070	1040	1010	990
140 x 88		1830	1760	1710	1660	1610	1570
190 x 88		2480	2390	2310	2250	2190	2130
240 x 88		3120	3010	2920	2830	2760	2690
290 x 88		3760	3630	3520	3420	3330	3240
300 x 88		3890	3760	3640	3530	3440	3350
315 x 88		4080	3940	3820	3710	3610	3520
350 x 88		4530	4370	4240	4110	4010	3910
360 x 88		4660	4500	4350	4230	4120	4020
400 x 88		5160	4990	4830	4690	4570	4460
88 x 88	2000	1020	1000	970	950	930	910
140 x 88		1630	1590	1550	1510	1480	1450
190 x 88		2210	2150	2100	2050	2010	1970
240 x 88		2780	2710	2650	2590	2540	2490
290 x 88		3360	3270	3200	3130	3060	3000
300 x 88		3470	3390	3310	3230	3170	3110
315 x 88		3650	3550	3470	3390	3320	3260
350 x 88		4050	3940	3850	3770	3690	3620
360 x 88		4160	4050	3960	3870	3790	3720
400 x 88		4610	4500	4400	4300	4210	4130



Table 18 (Continued): Red Stag Vertex₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25°			Ignoring wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	940	920	900	890	870	860
140 x 88		1490	1460	1440	1410	1390	1360
190 x 88		2030	1990	1950	1910	1880	1850
240 x 88		2560	2510	2460	2410	2370	2340
290 x 88		3090	3020	2970	2920	2870	2820
300 x 88		3190	3130	3070	3020	2960	2920
315 x 88		3350	3280	3220	3160	3110	3060
350 x 88		3720	3650	3580	3510	3460	3400
360 x 88		3820	3750	3680	3610	3550	3500
400 x 88		4240	4160	4080	4010	3940	3880
88 x 88	4000	880	860	850	840	820	810
140 x 88		1390	1370	1350	1330	1310	1290
190 x 88		1890	1860	1830	1800	1780	1750
240 x 88		2390	2350	2310	2280	2250	2220
290 x 88		2880	2840	2790	2750	2710	2680
300 x 88		2980	2930	2890	2850	2810	2770
315 x 88		3130	3080	3030	2990	2940	2900
350 x 88		3480	3420	3370	3320	3270	3230
360 x 88		3580	3520	3460	3410	3360	3320
400 x 88		3970	3900	3840	3790	3730	3680
88 x 88	5000	830	820	800	790	780	770
140 x 88		1320	1300	1280	1270	1250	1230
190 x 88		1790	1760	1740	1720	1700	1680
240 x 88		2260	2230	2200	2170	2140	2120
290 x 88		2730	2690	2650	2620	2590	2560
300 x 88		2820	2780	2740	2710	2680	2640
315 x 88		2960	2920	2880	2840	2810	2780
350 x 88		3290	3240	3200	3160	3120	3080
360 x 88		3380	3330	3290	3250	3210	3170
400 x 88		3750	3700	3650	3610	3560	3520
88 x 88	6000	780	770	760	760	750	740
140 x 88		1240	1230	1220	1210	1200	1190
190 x 88		1690	1670	1660	1640	1620	1610
240 x 88		2130	2110	2090	2070	2050	2030
290 x 88		2580	2550	2530	2500	2480	2460
300 x 88		2660	2640	2610	2590	2560	2540
315 x 88		2790	2760	2730	2710	2680	2660
350 x 88		3070	3040	3010	2980	2950	2920
360 x 88		3150	3120	3090	3060	3030	3000
400 x 88		3460	3430	3400	3360	3330	3300



1.5.3. Vertix₁₀ Floor Lintel Span Table: Light Roof 25° - 45° (Face Loading)

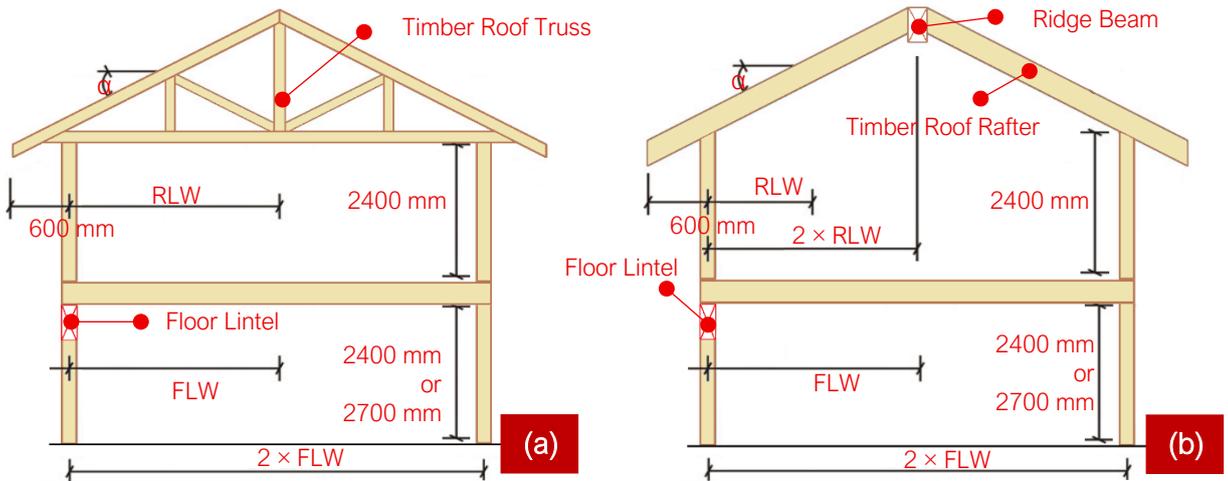


Figure 19: Red Stag Vertix₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 19: Red Stag Vertix ₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1130	1080	1040	1000	970	950
140 x 88		1800	1720	1650	1600	1550	1500
190 x 88		2430	2330	2240	2160	2100	2040
240 x 88		2690	2690	2690	2690	2650	2540
290 x 88		2870	2870	2870	2870	2870	2870
300 x 88		2900	2900	2900	2900	2900	2900
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640
88 x 88	2000	1010	980	950	930	900	880
140 x 88		1610	1560	1510	1470	1440	1400
190 x 88		2180	2110	2050	2000	1950	1900
240 x 88		2690	2660	2580	2520	2460	2400
290 x 88		2870	2870	2870	2870	2870	2870
300 x 88		2900	2900	2900	2900	2900	2900
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640



Table 19 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	930	910	880	870	850	830
140 x 88		1480	1440	1410	1380	1350	1320
190 x 88		2000	1950	1910	1870	1830	1800
240 x 88		2530	2470	2410	2360	2310	2270
290 x 88		2870	2870	2870	2850	2790	2740
300 x 88		2900	2900	2900	2900	2890	2830
315 x 88		2950	2950	2950	2950	2950	2950
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88	3640	3640	3640	3640	3640	3640	
88 x 88	4000	870	850	830	820	800	790
140 x 88		1380	1350	1330	1300	1280	1260
190 x 88		1880	1840	1800	1770	1740	1710
240 x 88		2370	2320	2270	2230	2200	2160
290 x 88		2860	2800	2750	2700	2650	2610
300 x 88		2900	2900	2840	2790	2740	2700
315 x 88		2950	2950	2950	2930	2880	2830
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88	3640	3640	3640	3640	3640	3640	
88 x 88	5000	820	810	790	780	770	760
140 x 88		1310	1290	1260	1240	1230	1210
190 x 88		1770	1740	1720	1690	1660	1640
240 x 88		2240	2200	2170	2130	2100	2070
290 x 88		2700	2660	2610	2570	2540	2500
300 x 88		2800	2750	2700	2660	2620	2580
315 x 88		2940	2890	2840	2790	2750	2710
350 x 88		3050	3050	3050	3050	3050	3010
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88	3640	3640	3640	3640	3640	3640	



Table 19 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size	Floor Loaded	Roof Loaded Width (mm)					
mm x mm	Width (mm)	1000	2000	3000	4000	5000	6000
88 x 88	6000	780	770	760	750	740	730
140 x 88		1240	1220	1210	1190	1180	1160
190 x 88		1680	1660	1640	1620	1600	1580
240 x 88		2120	2090	2070	2040	2020	1990
290 x 88		2560	2530	2500	2470	2440	2410
300 x 88		2650	2620	2580	2550	2520	2490
315 x 88		2770	2730	2700	2670	2640	2610
350 x 88		3050	3010	2970	2940	2910	2870
360 x 88		3080	3080	3050	3020	2980	2950
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 X 88	3640	3640	3640	3640	3640	3640	



1.5.4. Vertex₁₀ Floor Lintel Span Table: Light Roof 25° - 45° (No Face Loading)

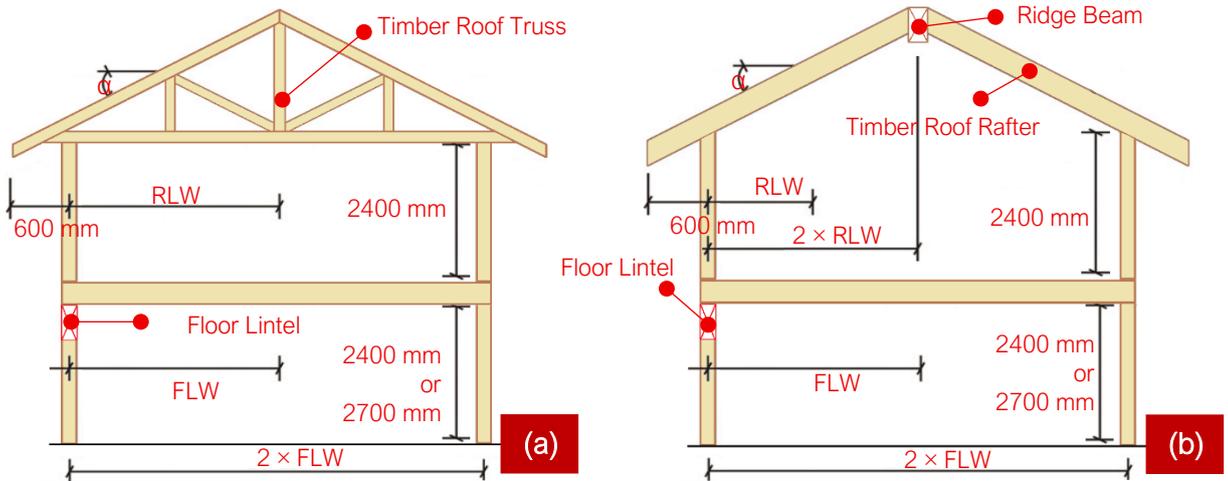


Figure 20: Red Stag Vertex₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 20: Red Stag Vertex ₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Ignoring wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1130	1080	1040	1000	970	950
140 x 88		1800	1720	1650	1600	1550	1500
190 x 88		2430	2330	2240	2160	2100	2040
240 x 88		3060	2930	2820	2730	2650	2570
290 x 88		3690	3530	3400	3290	3190	3100
300 x 88		3810	3650	3520	3400	3300	3210
315 x 88		4000	3830	3690	3570	3460	3370
350 x 88		4430	4250	4100	3960	3840	3740
360 x 88		4560	4370	4210	4070	3950	3840
400 x 88		5050	4850	4670	4520	4380	4260
88 x 88	2000	1010	980	950	930	900	880
140 x 88		1610	1560	1510	1470	1440	1400
190 x 88		2180	2110	2050	2000	1950	1900
240 x 88		2740	2660	2580	2520	2460	2400
290 x 88		3310	3210	3120	3040	2960	2900
300 x 88		3420	3320	3220	3140	3070	3000
315 x 88		3590	3480	3380	3300	3220	3150
350 x 88		3980	3860	3750	3660	3570	3490
360 x 88		4100	3970	3860	3760	3670	3590
400 x 88		4540	4410	4280	4170	4070	3980



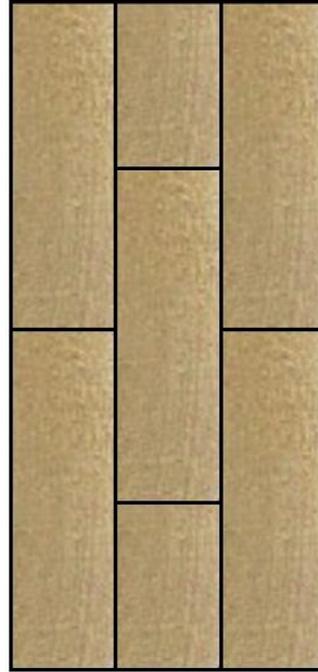
Table 20 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45°		Ignoring wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	930	910	880	870	850	830
140 x 88		1480	1440	1410	1380	1350	1320
190 x 88		2000	1950	1910	1870	1830	1800
240 x 88		2530	2470	2410	2360	2310	2270
290 x 88		3050	2980	2910	2850	2790	2740
300 x 88		3150	3080	3010	2940	2890	2830
315 x 88		3310	3230	3160	3090	3030	2970
350 x 88		3670	3590	3500	3430	3360	3300
360 x 88		3780	3690	3600	3530	3460	3390
400 x 88		4190	4090	4000	3920	3840	3770
88 x 88	4000	870	850	830	820	800	790
140 x 88		1380	1350	1330	1300	1280	1260
190 x 88		1880	1840	1800	1770	1740	1710
240 x 88		2370	2320	2270	2230	2200	2160
290 x 88		2860	2800	2750	2700	2650	2610
300 x 88		2950	2900	2840	2790	2740	2700
315 x 88		3100	3040	2980	2930	2880	2830
350 x 88		3440	3370	3310	3250	3200	3140
360 x 88		3540	3470	3400	3340	3290	3230
400 x 88		3930	3850	3780	3710	3650	3590
88 x 88	5000	820	810	790	780	770	760
140 x 88		1310	1290	1260	1240	1230	1210
190 x 88		1770	1740	1720	1690	1660	1640
240 x 88		2240	2200	2170	2130	2100	2070
290 x 88		2700	2660	2610	2570	2540	2500
300 x 88		2800	2750	2700	2660	2620	2580
315 x 88		2940	2890	2840	2790	2750	2710
350 x 88		3260	3200	3150	3100	3060	3010
360 x 88		3350	3300	3240	3190	3140	3100
400 x 88		3720	3660	3600	3540	3490	3440
88 x 88	6000	780	770	760	750	740	730
140 x 88		1240	1220	1210	1190	1180	1160
190 x 88		1680	1660	1640	1620	1600	1580
240 x 88		2120	2090	2070	2040	2020	1990
290 x 88		2560	2530	2500	2470	2440	2410
300 x 88		2650	2620	2580	2550	2520	2490
315 x 88		2770	2730	2700	2670	2640	2610
350 x 88		3050	3010	2970	2940	2910	2870
360 x 88		3130	3090	3050	3020	2980	2950
400 x 88		3440	3400	3360	3320	3280	3240

Section 1.6

Red Stag Vertix₂₀ Floor Lintel (Light Roof Weight)



The initial lintel span table is based on wind face loading considerations, while the following span table excludes wind face loading.



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November 2025





1.6.1. Vertix₂₀ Floor Lintel Span Table: Light Roof ≤25° (Face Loading)

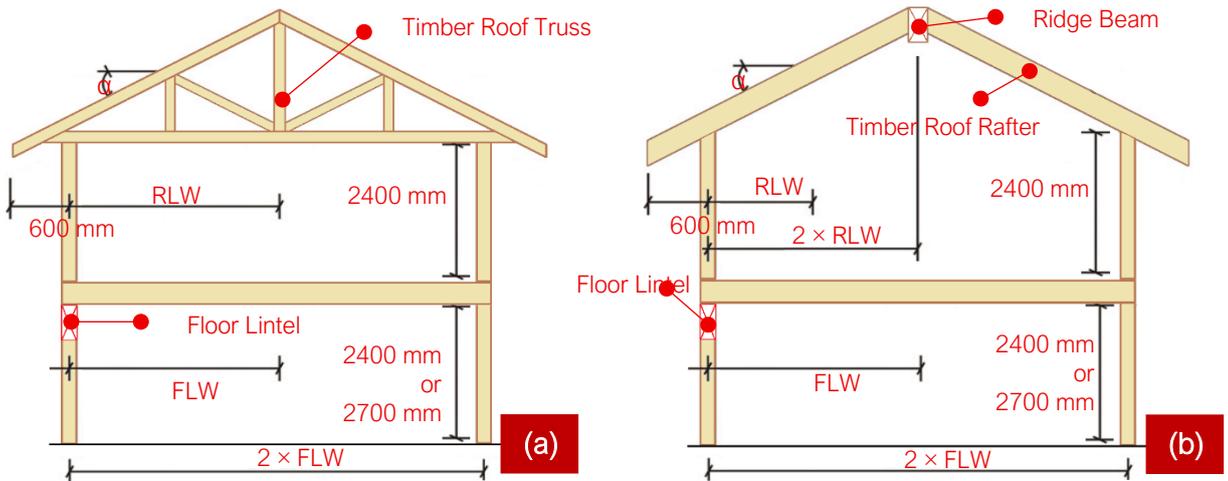


Figure 21: Red Stag Vertix₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 21: Red Stag Vertix ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1250	1200	1160	1130	1100	1070
140 x 88		1980	1910	1850	1800	1750	1700
190 x 88		2690	2590	2510	2430	2370	2290
240 x 88		2920	2920	2920	2920	2900	2780
290 x 88		3110	3110	3110	3110	3110	3110
300 x 88		3140	3140	3140	3140	3140	3140
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	2000	1110	1080	1050	1030	1010	990
140 x 88		1760	1720	1680	1640	1610	1570
190 x 88		2390	2330	2280	2220	2180	2140
240 x 88		2920	2920	2870	2810	2750	2700
290 x 88		3110	3110	3110	3110	3110	3110
300 x 88		3140	3140	3140	3140	3140	3140
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



Table 21 (Continued): Red Stag Vertex₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	1020	1000	980	960	940	930
140 x 88		1620	1590	1560	1530	1500	1480
190 x 88		2200	2150	2110	2070	2040	2010
240 x 88		2770	2720	2660	2620	2570	2530
290 x 88		3110	3110	3110	3110	3110	3060
300 x 88		3140	3140	3140	3140	3140	3140
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	4000	950	930	920	910	890	880
140 x 88		1510	1490	1460	1440	1420	1400
190 x 88		2050	2020	1990	1960	1930	1900
240 x 88		2590	2550	2510	2470	2430	2400
290 x 88		3110	3070	3030	2980	2940	2900
300 x 88		3140	3140	3130	3080	3040	3000
315 x 88		3190	3190	3190	3190	3190	3150
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	5000	900	880	870	860	850	840
140 x 88		1430	1410	1390	1370	1350	1340
190 x 88		1940	1910	1890	1860	1840	1820
240 x 88		2450	2410	2380	2350	2320	2290
290 x 88		2950	2910	2870	2840	2800	2770
300 x 88		3060	3010	2970	2940	2900	2860
315 x 88		3190	3160	3120	3080	3040	3010
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



Table 21 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	6000	830	830	820	810	800	800
140 x 88		1330	1320	1300	1290	1280	1270
190 x 88		1800	1790	1770	1750	1740	1720
240 x 88		2280	2260	2240	2210	2190	2170
290 x 88		2750	2730	2700	2670	2650	2630
300 x 88		2850	2820	2790	2770	2740	2720
315 x 88		2980	2950	2920	2890	2870	2840
350 x 88		3280	3250	3220	3180	3160	3130
360 x 88		3340	3330	3300	3270	3240	3210
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



1.6.2. Vertix₂₀ Floor Lintel Span Table: Light Roof ≤25° (No Face Loading)

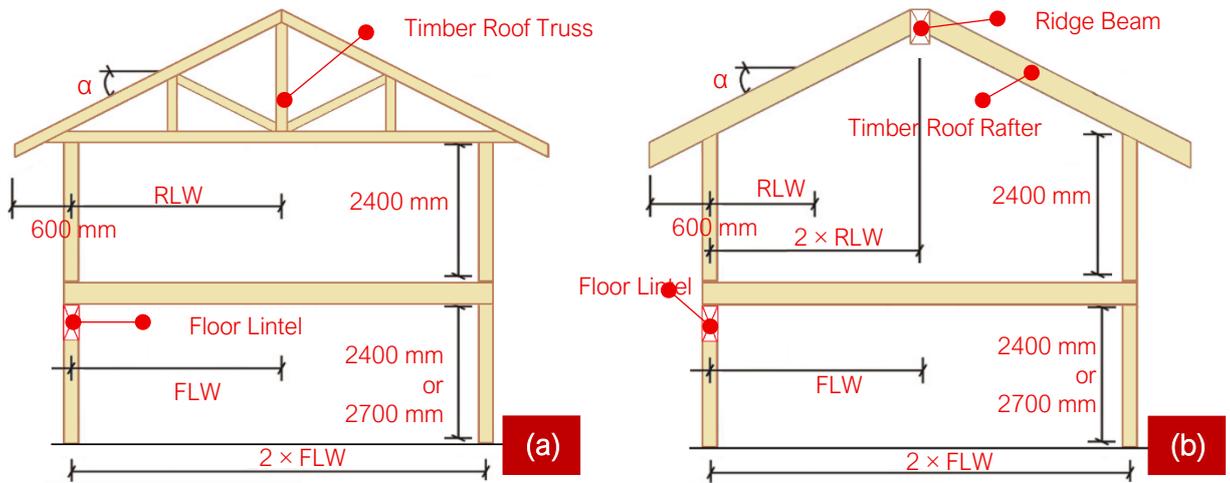


Figure 22: Red Stag Vertix₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 22: Red Stag Vertix ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 0° to 25°		Ignoring wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1250	1200	1160	1130	1100	1070
140 x 88		1980	1910	1850	1800	1750	1700
190 x 88		2690	2590	2510	2430	2370	2310
240 x 88		3380	3260	3160	3070	2990	2910
290 x 88		4080	3940	3810	3700	3600	3520
300 x 88		4220	4070	3940	3830	3730	3640
315 x 88		4420	4270	4140	4020	3910	3820
350 x 88		4910	4740	4590	4460	4340	4230
360 x 88		5040	4870	4720	4580	4460	4350
400 x 88		5590	5400	5230	5090	4950	4830
88 x 88	2000	1110	1080	1050	1030	1010	990
140 x 88		1760	1720	1680	1640	1610	1570
190 x 88		2390	2330	2280	2220	2180	2140
240 x 88		3020	2940	2870	2810	2750	2700
290 x 88		3640	3550	3460	3390	3320	3250
300 x 88		3760	3670	3580	3500	3430	3370
315 x 88		3950	3850	3760	3680	3600	3530
350 x 88		4380	4270	4170	4080	4000	3920
360 x 88		4510	4390	4290	4200	4110	4030
400 x 88		5000	4880	4760	4660	4560	4480

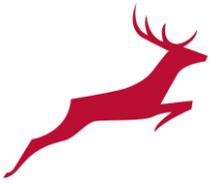


Table 22 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 0° to 25°		Ignoring wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	1020	1000	980	960	940	930
140 x 88		1620	1590	1560	1530	1500	1480
190 x 88		2200	2150	2110	2070	2040	2010
240 x 88		2770	2720	2660	2620	2570	2530
290 x 88		3340	3280	3220	3160	3110	3060
300 x 88		3460	3390	3330	3270	3210	3160
315 x 88		3630	3560	3490	3430	3370	3320
350 x 88		4030	3950	3880	3810	3740	3680
360 x 88		4140	4060	3990	3920	3850	3790
400 x 88		4600	4510	4420	4350	4270	4210
88 x 88	4000	950	930	920	910	890	880
140 x 88		1510	1490	1460	1440	1420	1400
190 x 88		2050	2020	1990	1960	1930	1900
240 x 88		2590	2550	2510	2470	2430	2400
290 x 88		3130	3070	3030	2980	2940	2900
300 x 88		3230	3180	3130	3080	3040	3000
315 x 88		3390	3340	3290	3240	3190	3150
350 x 88		3770	3710	3650	3590	3540	3500
360 x 88		3870	3810	3750	3700	3640	3590
400 x 88		4300	4230	4170	4100	4050	3990
88 x 88	5000	900	880	870	860	850	840
140 x 88		1430	1410	1390	1370	1350	1340
190 x 88		1940	1910	1890	1860	1840	1820
240 x 88		2450	2410	2380	2350	2320	2290
290 x 88		2950	2910	2870	2840	2800	2770
300 x 88		3060	3010	2970	2940	2900	2860
315 x 88		3210	3160	3120	3080	3040	3010
350 x 88		3550	3510	3470	3420	3380	3340
360 x 88		3650	3600	3560	3520	3480	3440
400 x 88		4010	3970	3920	3880	3840	3800
88 x 88	6000	830	830	820	810	800	800
140 x 88		1330	1320	1300	1290	1280	1270
190 x 88		1800	1790	1770	1750	1740	1720
240 x 88		2280	2260	2240	2210	2190	2170
290 x 88		2750	2730	2700	2670	2650	2630
300 x 88		2850	2820	2790	2770	2740	2720
315 x 88		2980	2950	2920	2890	2870	2840
350 x 88		3280	3250	3220	3180	3160	3130
360 x 88		3360	3330	3300	3270	3240	3210
400 x 88		3700	3670	3630	3600	3560	3530



1.6.3. Vertex₂₀ Floor Lintel Span Table: Light Roof 25° - 45° (Face Loading)

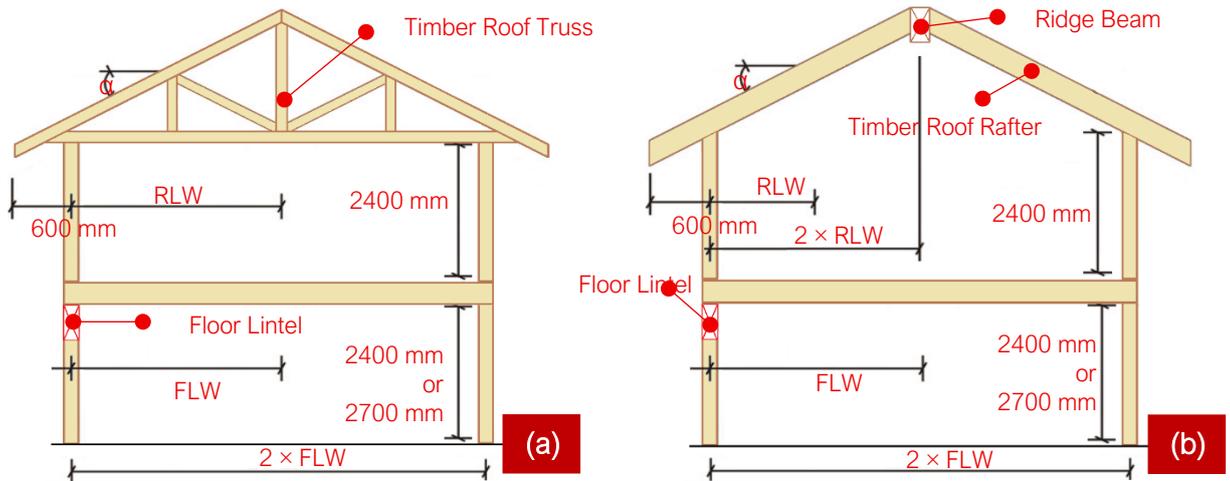


Figure 23: Red Stag Vertex₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 23: Red Stag Vertex ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1230	1170	1130	1090	1060	1030
140 x 88		1950	1860	1790	1730	1680	1630
190 x 88		2630	2520	2430	2350	2270	2210
240 x 88		2920	2920	2920	2920	2840	2720
290 x 88		3110	3110	3110	3110	3110	3110
300 x 88		3140	3140	3140	3140	3140	3140
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	2000	1100	1060	1030	1000	980	960
140 x 88		1740	1690	1640	1590	1560	1520
190 x 88		2360	2290	2220	2160	2110	2060
240 x 88		2920	2880	2800	2730	2660	2600
290 x 88		3110	3110	3110	3110	3110	3110
300 x 88		3140	3140	3140	3140	3140	3140
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	

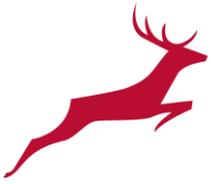


Table 23 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 25° to 45°		Considering wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	1010	980	960	940	920	900
140 x 88		1600	1560	1530	1490	1460	1440
190 x 88		2170	2120	2070	2030	1980	1950
240 x 88		2740	2670	2610	2560	2500	2460
290 x 88		3110	3110	3110	3080	3020	2970
300 x 88		3140	3140	3140	3140	3130	3070
315 x 88		3190	3190	3190	3190	3190	3190
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	4000	940	920	900	890	870	860
140 x 88		1500	1470	1440	1410	1390	1370
190 x 88		2030	1990	1950	1920	1880	1850
240 x 88		2560	2510	2460	2420	2380	2340
290 x 88		3100	3030	2980	2920	2870	2830
300 x 88		3140	3140	3080	3020	2970	2920
315 x 88		3190	3190	3190	3170	3120	3070
350 x 88		3310	3310	3310	3310	3310	3310
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	5000	890	870	860	850	830	820
140 x 88		1420	1390	1370	1350	1330	1310
190 x 88		1920	1890	1860	1830	1800	1780
240 x 88		2430	2390	2350	2310	2280	2240
290 x 88		2930	2880	2830	2790	2750	2710
300 x 88		3030	2980	2930	2880	2840	2800
315 x 88		3180	3130	3080	3030	2980	2940
350 x 88		3310	3310	3310	3310	3310	3270
360 x 88		3340	3340	3340	3340	3340	3340
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



Table 23 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α: 25° to 45°		Considering wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	6000	830	820	810	800	790	780
140 x 88		1320	1310	1290	1270	1260	1250
190 x 88		1800	1770	1750	1730	1710	1690
240 x 88		2270	2240	2210	2190	2160	2140
290 x 88		2740	2700	2670	2640	2610	2580
300 x 88		2830	2800	2760	2730	2700	2670
315 x 88		2960	2920	2890	2850	2820	2790
350 x 88		3260	3220	3180	3140	3110	3070
360 x 88		3340	3300	3260	3220	3190	3150
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



1.6.4. Vertix₂₀ Floor Lintel Span Table: Light Roof 25° - 45° (No Face Loading)

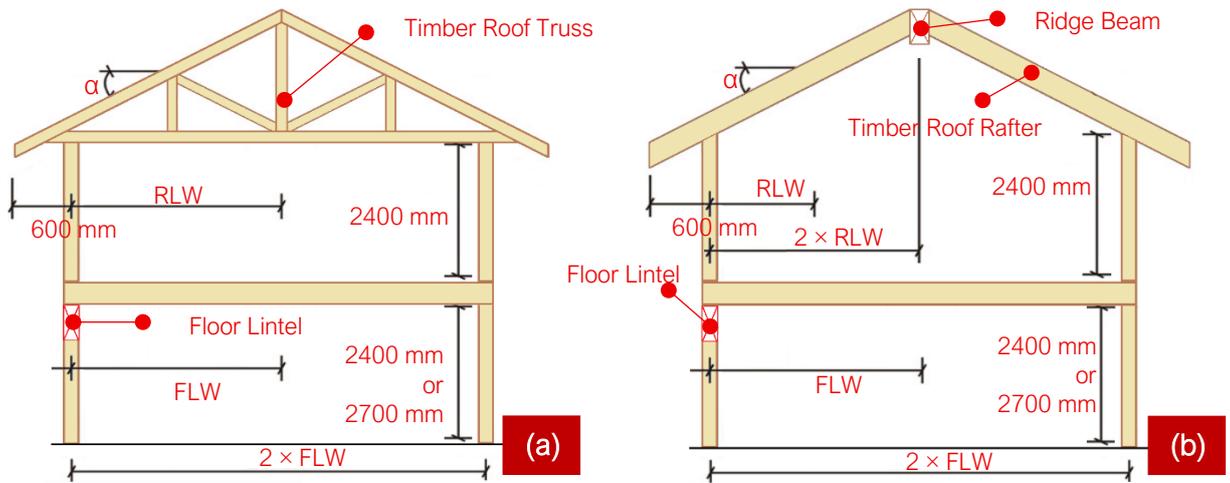


Figure 24: Red Stag Vertix₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 24: Red Stag Vertix ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Ignoring wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1230	1170	1130	1090	1060	1030
140 x 88		1950	1860	1790	1730	1680	1630
190 x 88		2630	2520	2430	2350	2270	2210
240 x 88		3320	3180	3060	2960	2870	2790
290 x 88		3990	3830	3690	3570	3460	3360
300 x 88		4130	3960	3810	3690	3580	3480
315 x 88		4330	4150	4000	3870	3750	3650
350 x 88		4800	4610	4440	4290	4160	4050
360 x 88		4940	4740	4560	4410	4280	4160
400 x 88		5470	5250	5060	4900	4750	4620
88 x 88	2000	1100	1060	1030	1000	980	960
140 x 88		1740	1690	1640	1590	1560	1520
190 x 88		2360	2290	2220	2160	2110	2060
240 x 88		2970	2880	2800	2730	2660	2600
290 x 88		3590	3480	3380	3290	3210	3140
300 x 88		3710	3590	3490	3400	3320	3250
315 x 88		3890	3770	3670	3570	3490	3410
350 x 88		4320	4190	4070	3960	3870	3780
360 x 88		4440	4300	4180	4080	3980	3890
400 x 88		4920	4770	4640	4520	4420	4320

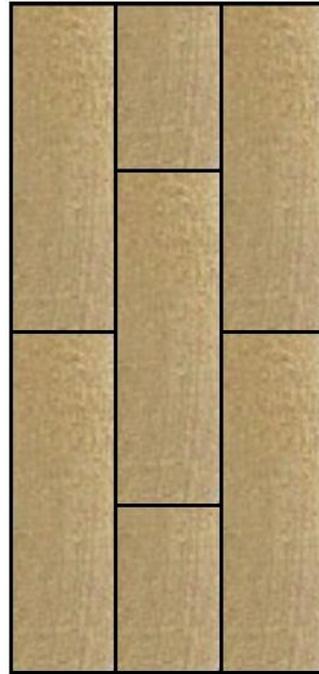


Table 24 (Continued): Red Stag Vertex₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Light		Roof Pitch α : 25° to 45° Ignoring wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	1010	980	960	940	920	900
140 x 88		1600	1560	1530	1490	1460	1440
190 x 88		2170	2120	2070	2030	1980	1950
240 x 88		2740	2670	2610	2560	2500	2460
290 x 88		3310	3220	3150	3080	3020	2970
300 x 88		3420	3330	3260	3190	3130	3070
315 x 88		3590	3500	3420	3350	3280	3220
350 x 88		3980	3880	3800	3720	3640	3570
360 x 88		4090	3990	3900	3820	3750	3680
400 x 88		4540	4430	4330	4240	4160	4080
88 x 88	4000	940	920	900	890	870	860
140 x 88		1500	1470	1440	1410	1390	1370
190 x 88		2030	1990	1950	1920	1880	1850
240 x 88		2560	2510	2460	2420	2380	2340
290 x 88		3100	3030	2980	2920	2870	2830
300 x 88		3200	3140	3080	3020	2970	2920
315 x 88		3360	3290	3230	3170	3120	3070
350 x 88		3730	3660	3590	3520	3460	3410
360 x 88		3840	3760	3690	3620	3560	3500
400 x 88		4260	4170	4090	4020	3950	3890
88 x 88	5000	890	870	860	850	830	820
140 x 88		1420	1390	1370	1350	1330	1310
190 x 88		1920	1890	1860	1830	1800	1780
240 x 88		2430	2390	2350	2310	2280	2240
290 x 88		2930	2880	2830	2790	2750	2710
300 x 88		3030	2980	2930	2880	2840	2800
315 x 88		3180	3130	3080	3030	2980	2940
350 x 88		3530	3470	3420	3360	3310	3270
360 x 88		3620	3570	3510	3460	3410	3360
400 x 88		3990	3930	3870	3820	3770	3720
88 x 88	6000	830	820	810	800	790	780
140 x 88		1320	1310	1290	1270	1260	1250
190 x 88		1800	1770	1750	1730	1710	1690
240 x 88		2270	2240	2210	2190	2160	2140
290 x 88		2740	2700	2670	2640	2610	2580
300 x 88		2830	2800	2760	2730	2700	2670
315 x 88		2960	2920	2890	2850	2820	2790
350 x 88		3260	3220	3180	3140	3110	3070
360 x 88		3340	3300	3260	3220	3190	3150
400 x 88		3680	3640	3590	3550	3510	3470

Section 1.7 Red Stag Vertix₁₀ Floor Lintel (Heavy Roof Weight)



The initial lintel span table is based on wind face loading considerations, while the following span table excludes wind face loading.



Make it better

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November 2025





1.7.1. Vertix₁₀ Floor Lintel Span Table: Heavy Roof ≤25° (Face Loading)

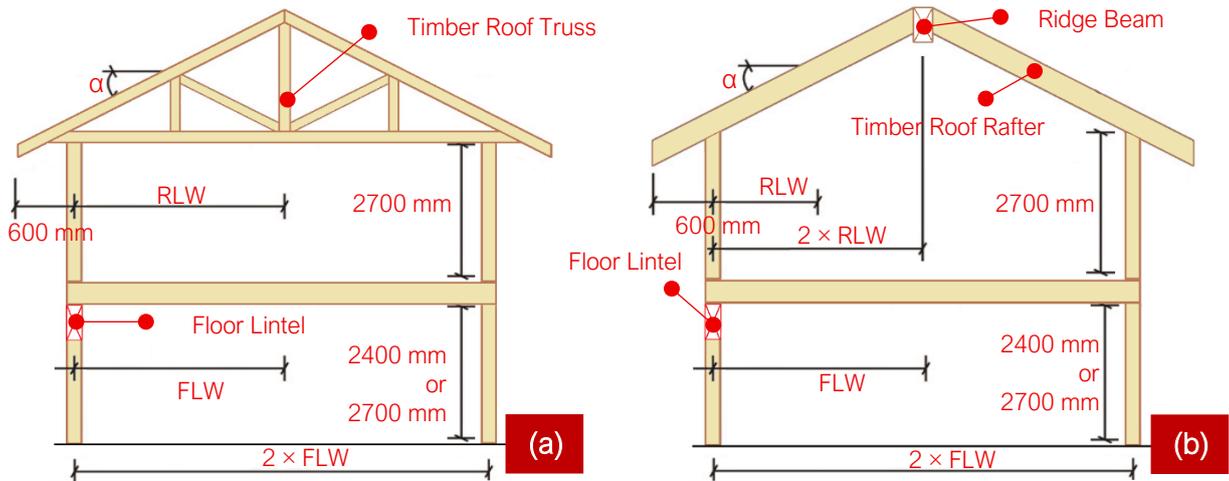


Figure 25: Red Stag Vertix₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 25: Red Stag Vertix ₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	930	890	860	830	800	780
140 x 88		1480	1420	1360	1320	1280	1240
190 x 88		2010	1920	1850	1790	1730	1680
240 x 88		2540	2430	2340	2260	2190	2120
290 x 88		2870	2870	2820	2720	2640	2560
300 x 88		2900	2900	2900	2820	2730	2650
315 x 88		2950	2950	2950	2950	2870	2780
350 x 88		3050	3050	3050	3050	3050	3050
360 x 88		3080	3080	3080	3080	3080	3080
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	
88 x 88	2000	870	840	810	790	770	750
140 x 88		1390	1340	1290	1250	1220	1190
190 x 88		1880	1810	1750	1700	1660	1610
240 x 88		2380	2290	2220	2150	2090	2040
290 x 88		2870	2770	2680	2600	2530	2460
300 x 88		2900	2860	2770	2690	2610	2550
315 x 88		2950	2950	2910	2820	2740	2670
350 x 88		3050	3050	3050	3050	3050	2970
360 x 88		3080	3080	3080	3080	3080	3050
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	



Table 25 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	820	800	770	750	740	720
140 x 88		1310	1270	1230	1200	1170	1150
190 x 88		1780	1720	1680	1630	1590	1560
240 x 88		2250	2180	2120	2060	2010	1970
290 x 88		2710	2630	2560	2490	2430	2370
300 x 88		2810	2720	2640	2580	2510	2460
315 x 88		2950	2860	2780	2700	2640	2580
350 x 88		3050	3050	3050	3000	2930	2860
360 x 88		3080	3080	3080	3080	3010	2950
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640
88 x 88	4000	780	760	740	730	710	700
140 x 88		1250	1220	1190	1160	1130	1110
190 x 88		1700	1650	1610	1570	1540	1510
240 x 88		2140	2090	2030	1990	1940	1900
290 x 88		2590	2520	2460	2400	2350	2300
300 x 88		2680	2610	2540	2480	2430	2380
315 x 88		2810	2730	2670	2610	2550	2500
350 x 88		3050	3040	2960	2890	2830	2770
360 x 88		3080	3080	3050	2980	2910	2850
400 x 88		3190	3190	3190	3190	3190	3170
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640
88 x 88	5000	750	730	720	700	690	680
140 x 88		1200	1170	1140	1120	1100	1080
190 x 88		1630	1590	1550	1520	1490	1460
240 x 88		2060	2010	1960	1920	1880	1850
290 x 88		2480	2420	2370	2320	2270	2230
300 x 88		2570	2510	2450	2400	2350	2310
315 x 88		2700	2630	2570	2520	2470	2420
350 x 88		2990	2920	2860	2800	2740	2690
360 x 88		3080	3010	2940	2880	2820	2770
400 x 88		3190	3190	3190	3190	3130	3080
405 x 88		3210	3210	3210	3210	3170	3110
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640



Table 25 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	6000	720	710	690	680	670	660
140 x 88		1160	1130	1110	1090	1070	1050
190 x 88		1570	1530	1500	1470	1450	1420
240 x 88		1980	1940	1900	1860	1830	1800
290 x 88		2390	2340	2290	2250	2210	2170
300 x 88		2480	2420	2370	2330	2290	2250
315 x 88		2600	2540	2490	2440	2400	2360
350 x 88		2860	2800	2750	2700	2650	2610
360 x 88		2930	2880	2820	2770	2720	2670
400 x 88		3190	3170	3110	3050	3000	2950
405 x 88		3210	3200	3140	3080	3030	2980
450 x 88		3320	3320	3320	3320	3320	3280
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	



1.7.2. Vertix₁₀ Floor Lintel Span Table: Heavy Roof $\leq 25^\circ$ (No Face Loading)

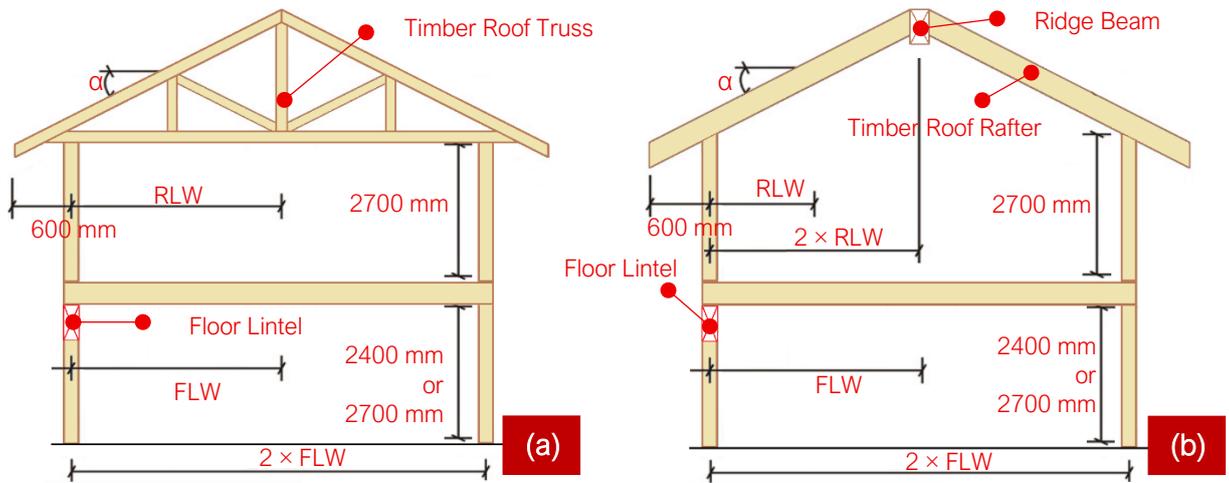


Figure 26: Red Stag Vertix₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Roof Weight: Heavy		Roof Pitch α : 0° to 25°					
		Ignoring wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	930	890	860	830	800	780
140 x 88		1480	1420	1360	1320	1280	1240
190 x 88		2010	1920	1850	1790	1730	1680
240 x 88		2540	2430	2340	2260	2190	2120
290 x 88		3070	2930	2820	2720	2640	2560
300 x 88		3170	3030	2920	2820	2730	2650
315 x 88		3330	3180	3060	2960	2870	2780
350 x 88		3690	3540	3400	3280	3180	3090
360 x 88		3800	3640	3500	3380	3270	3180
400 x 88		4220	4040	3880	3750	3630	3530
88 x 88	2000	870	840	810	790	770	750
140 x 88		1390	1340	1290	1250	1220	1190
190 x 88		1880	1810	1750	1700	1660	1610
240 x 88		2380	2290	2220	2150	2090	2040
290 x 88		2870	2770	2680	2600	2530	2460
300 x 88		2970	2860	2770	2690	2610	2550
315 x 88		3110	3000	2910	2820	2740	2670
350 x 88		3460	3330	3230	3130	3050	2970
360 x 88		3560	3430	3320	3220	3130	3050
400 x 88		3950	3810	3680	3580	3480	3390



Table 26 (Continued): Red Stag Vertex₁₀ Roof Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°			Ignoring wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	820	800	770	750	740	720
140 x 88		1310	1270	1230	1200	1170	1150
190 x 88		1780	1720	1680	1630	1590	1560
240 x 88		2250	2180	2120	2060	2010	1970
290 x 88		2710	2630	2560	2490	2430	2370
300 x 88		2810	2720	2640	2580	2510	2460
315 x 88		2950	2860	2780	2700	2640	2580
350 x 88		3270	3170	3080	3000	2930	2860
360 x 88		3370	3260	3170	3090	3010	2950
400 x 88		3740	3620	3520	3430	3350	3270
88 x 88	4000	780	760	740	730	710	700
140 x 88		1250	1220	1190	1160	1130	1110
190 x 88		1700	1650	1610	1570	1540	1510
240 x 88		2140	2090	2030	1990	1940	1900
290 x 88		2590	2520	2460	2400	2350	2300
300 x 88		2680	2610	2540	2480	2430	2380
315 x 88		2810	2730	2670	2610	2550	2500
350 x 88		3120	3040	2960	2890	2830	2770
360 x 88		3210	3120	3050	2980	2910	2850
400 x 88		3570	3470	3380	3310	3230	3170
88 x 88	5000	750	730	720	700	690	680
140 x 88		1200	1170	1140	1120	1100	1080
190 x 88		1630	1590	1550	1520	1490	1460
240 x 88		2060	2010	1960	1920	1880	1850
290 x 88		2480	2420	2370	2320	2270	2230
300 x 88		2570	2510	2450	2400	2350	2310
315 x 88		2700	2630	2570	2520	2470	2420
350 x 88		2990	2920	2860	2800	2740	2690
360 x 88		3080	3010	2940	2880	2820	2770
400 x 88		3420	3340	3270	3200	3130	3080
88 x 88	6000	720	710	690	680	670	660
140 x 88		1160	1130	1110	1090	1070	1050
190 x 88		1570	1530	1500	1470	1450	1420
240 x 88		1980	1940	1900	1860	1830	1800
290 x 88		2390	2340	2290	2250	2210	2170
300 x 88		2480	2420	2370	2330	2290	2250
315 x 88		2600	2540	2490	2440	2400	2360
350 x 88		2860	2800	2750	2700	2650	2610
360 x 88		2930	2880	2820	2770	2720	2670
400 x 88		3230	3170	3110	3050	3000	2950



1.7.3. Vertix₁₀ Floor Lintel Span Table: Heavy Roof >25°-45° (Face Loading)

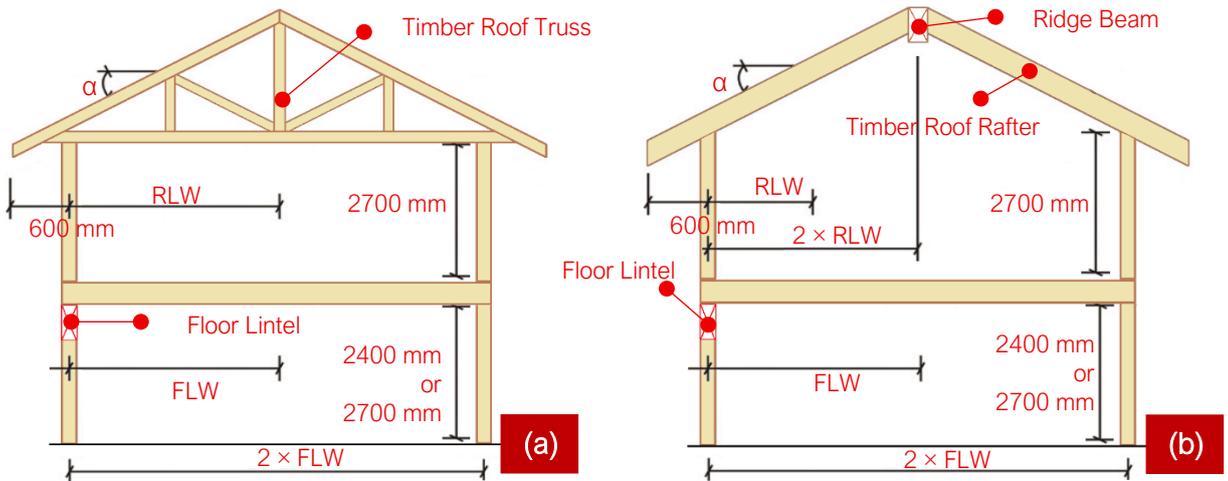


Figure 27: Red Stag Vertix₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 27: Red Stag Vertix ₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	910	860	830	790	760	740
140 x 88		1450	1380	1310	1260	1220	1180
190 x 88		1970	1870	1780	1710	1650	1600
240 x 88		2480	2360	2250	2160	2090	2020
290 x 88		2870	2840	2720	2610	2520	2440
300 x 88		2900	2900	2810	2700	2610	2520
315 x 88		2950	2950	2950	2840	2740	2650
350 x 88		3050	3050	3050	3050	3040	2940
360 x 88		3080	3080	3080	3080	3080	3010
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640
88 x 88	2000	860	820	790	760	740	710
140 x 88		1360	1300	1250	1210	1170	1140
190 x 88		1850	1770	1700	1640	1590	1540
240 x 88		2330	2230	2150	2070	2010	1950
290 x 88		2810	2690	2590	2500	2430	2360
300 x 88		2900	2790	2680	2590	2510	2440
315 x 88		2950	2920	2810	2720	2630	2560
350 x 88		3050	3050	3050	3020	2920	2840
360 x 88		3080	3080	3080	3080	3010	2920
400 x 88		3190	3190	3190	3190	3190	3190
405 x 88		3210	3210	3210	3210	3210	3210
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88		3640	3640	3640	3640	3640	3640



Table 27 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	810	780	750	730	710	690
140 x 88		1290	1240	1200	1160	1130	1100
190 x 88		1750	1690	1630	1580	1540	1500
240 x 88		2210	2130	2060	2000	1940	1890
290 x 88		2670	2570	2490	2410	2340	2280
300 x 88		2760	2660	2570	2490	2420	2360
315 x 88		2900	2790	2700	2620	2540	2480
350 x 88		3050	3050	3000	2910	2830	2750
360 x 88		3080	3080	3080	2990	2910	2830
400 x 88		3190	3190	3190	3190	3190	3140
405 x 88		3210	3210	3210	3210	3210	3180
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	
88 x 88	4000	770	750	730	710	690	670
140 x 88		1230	1190	1160	1120	1100	1070
190 x 88		1670	1620	1570	1530	1490	1450
240 x 88		2110	2040	1980	1930	1880	1840
290 x 88		2550	2470	2400	2330	2270	2220
300 x 88		2640	2550	2480	2410	2350	2290
315 x 88		2770	2680	2600	2530	2470	2410
350 x 88		3050	2980	2890	2810	2740	2670
360 x 88		3080	3060	2970	2890	2820	2750
400 x 88		3190	3190	3190	3190	3130	3060
405 x 88		3210	3210	3210	3210	3170	3090
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	
88 x 88	5000	740	720	700	680	670	650
140 x 88		1180	1150	1120	1090	1060	1040
190 x 88		1610	1560	1520	1480	1450	1410
240 x 88		2030	1970	1920	1870	1830	1790
290 x 88		2450	2380	2320	2260	2210	2160
300 x 88		2540	2460	2400	2340	2280	2230
315 x 88		2660	2590	2520	2450	2400	2340
350 x 88		2960	2870	2790	2720	2660	2600
360 x 88		3040	2950	2870	2800	2740	2680
400 x 88		3190	3190	3190	3110	3040	2980
405 x 88		3210	3210	3210	3150	3080	3010
450 x 88		3320	3320	3320	3320	3320	3320
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88	3630	3630	3630	3630	3630	3630	
600 x 88	3640	3640	3640	3640	3640	3640	



Table 27 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45°		Considering wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	6000	720	700	680	660	650	640
140 x 88		1140	1110	1080	1060	1040	1020
190 x 88		1550	1510	1470	1440	1410	1380
240 x 88		1960	1910	1860	1820	1780	1740
290 x 88		2370	2300	2250	2200	2150	2110
300 x 88		2450	2380	2320	2270	2220	2180
315 x 88		2570	2500	2440	2380	2330	2290
350 x 88		2830	2760	2700	2640	2580	2530
360 x 88		2900	2830	2770	2700	2650	2590
400 x 88		3190	3120	3040	2980	2910	2850
405 x 88		3210	3150	3080	3010	2950	2890
450 x 88		3320	3320	3320	3310	3240	3180
495 x 88		3430	3430	3430	3430	3430	3430
500 x 88		3440	3440	3440	3440	3440	3440
540 x 88		3530	3530	3530	3530	3530	3530
550 x 88		3550	3550	3550	3550	3550	3550
595 x 88		3630	3630	3630	3630	3630	3630
600 x 88	3640	3640	3640	3640	3640	3640	



1.7.4. Vertix₁₀ Floor Lintel Span Table: Heavy Roof 25°-45° (No Face Loading)

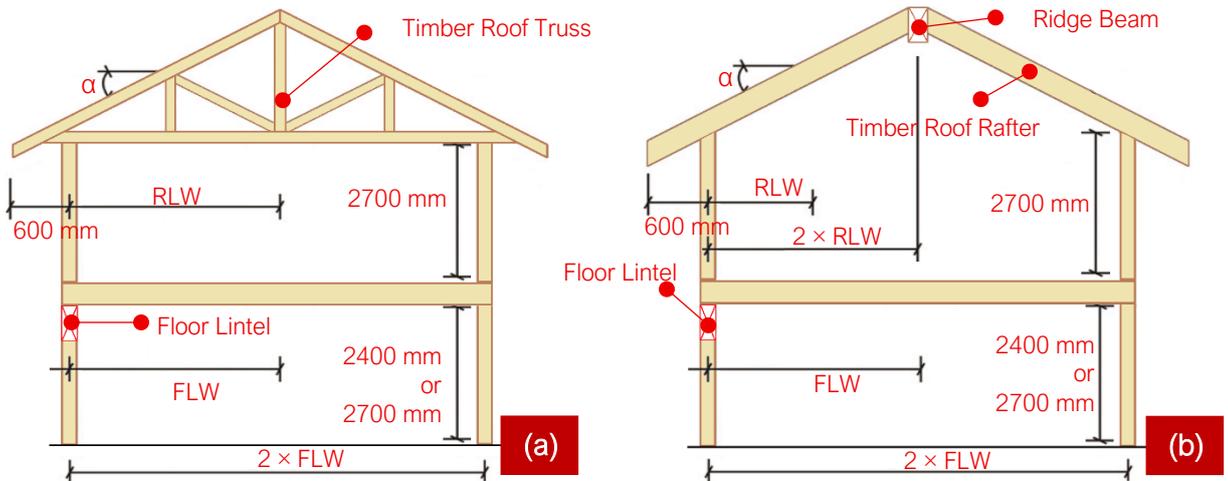


Figure 28: Red Stag Vertix₁₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 28: Red Stag Vertix ₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45°			Ignoring wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	890	860	830	790	760	740
140 x 88		1450	1380	1310	1260	1220	1180
190 x 88		1970	1870	1780	1710	1650	1600
240 x 88		2480	2360	2250	2160	2090	2020
290 x 88		3000	2840	2720	2610	2520	2440
300 x 88		3100	2940	2810	2700	2610	2520
315 x 88		3250	3090	2950	2840	2740	2650
350 x 88		3610	3430	3280	3150	3040	2940
360 x 88		3710	3520	3370	3240	3130	3030
400 x 88		4120	3910	3740	3600	3470	3360
88 x 88	2000	860	820	790	760	740	710
140 x 88		1360	1300	1250	1210	1170	1140
190 x 88		1850	1770	1700	1640	1590	1540
240 x 88		2330	2230	2150	2070	2010	1950
290 x 88		2810	2690	2590	2500	2430	2360
300 x 88		2910	2790	2680	2590	2510	2440
315 x 88		3060	2920	2810	2720	2630	2560
350 x 88		3390	3250	3120	3020	2920	2840
360 x 88		3490	3340	3210	3100	3010	2920
400 x 88		3870	3710	3570	3450	3340	3250
88 x 88	3000	810	780	750	730	710	690
140 x 88		1290	1240	1200	1160	1130	1100
190 x 88		1750	1690	1630	1580	1540	1500
240 x 88		2210	2130	2060	2000	1940	1890
290 x 88		2670	2570	2490	2410	2340	2280
300 x 88		2760	2660	2570	2490	2420	2360
315 x 88		2900	2790	2700	2620	2540	2480
350 x 88		3220	3100	3000	2910	2830	2750
360 x 88		3310	3190	3080	2990	2910	2830
400 x 88		3680	3540	3420	3320	3230	3140

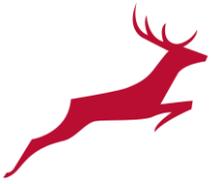


Table 28 (Continued): Red Stag Vertix₁₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45°			Ignoring wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	4000	770	750	730	710	690	670
140 x 88		1230	1190	1160	1120	1100	1070
190 x 88		1670	1620	1570	1530	1490	1450
240 x 88		2110	2040	1980	1930	1880	1840
290 x 88		2550	2470	2400	2330	2270	2220
300 x 88		2640	2550	2480	2410	2350	2290
315 x 88		2770	2680	2600	2530	2470	2410
350 x 88		3080	2980	2890	2810	2740	2670
360 x 88		3160	3060	2970	2890	2820	2750
400 x 88		3510	3400	3300	3210	3130	3060
88 x 88	5000	740	720	700	680	670	650
140 x 88		1180	1150	1120	1090	1060	1040
190 x 88		1610	1560	1520	1480	1450	1410
240 x 88		2030	1970	1920	1870	1830	1790
290 x 88		2450	2380	2320	2260	2210	2160
300 x 88		2540	2460	2400	2340	2280	2230
315 x 88		2660	2590	2520	2450	2400	2340
350 x 88		2960	2870	2790	2720	2660	2600
360 x 88		3040	2950	2870	2800	2740	2680
400 x 88		3380	3280	3190	3110	3040	2980
88 x 88	6000	720	700	680	660	650	640
140 x 88		1140	1110	1080	1060	1040	1020
190 x 88		1550	1510	1470	1440	1410	1380
240 x 88		1960	1910	1860	1820	1780	1740
290 x 88		2370	2300	2250	2200	2150	2110
300 x 88		2450	2380	2320	2270	2220	2180
315 x 88		2570	2500	2440	2380	2330	2290
350 x 88		2830	2760	2700	2640	2580	2530
360 x 88		2900	2830	2770	2700	2650	2590
400 x 88		3200	3120	3040	2980	2910	2850

Section 1.8

Red Stag Vertix₂₀ Floor Lintel (Heavy Roof Weight)

The initial lintel span table is based on wind face loading considerations, while the following span table excludes wind face loading.



Make it better

Red Stag Vertix & GLT_h Design Guide V1.3
November 2025



RED STAG®



1.8.1. Vertix₂₀ Floor Lintel Span Table: Heavy Roof ≤25° (Face Loading)

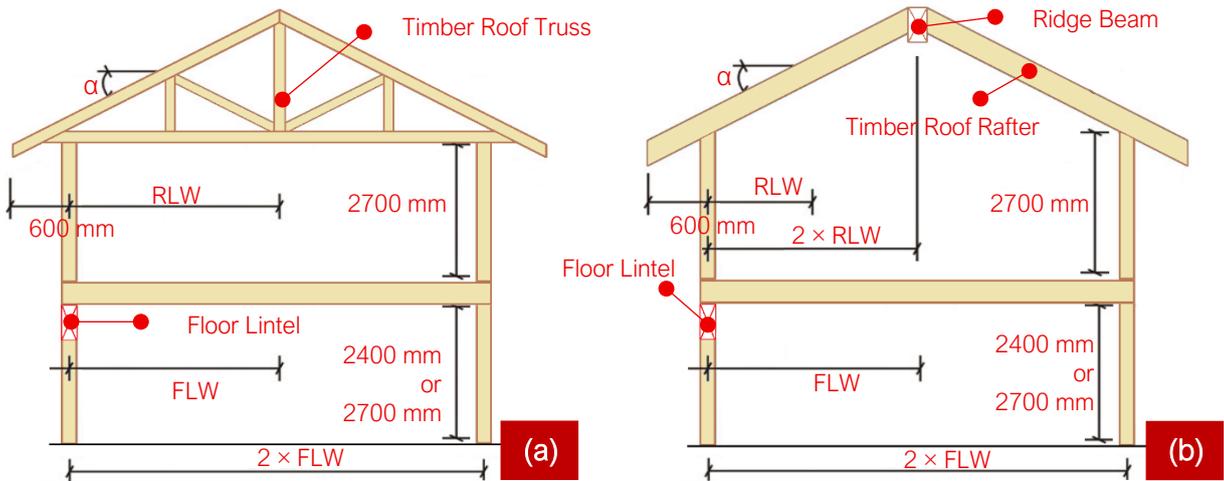


Figure 29: Red Stag Vertix₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 29: Red Stag Vertix ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	1010	970	930	900	870	840
140 x 88		1610	1540	1480	1430	1380	1340
190 x 88		2180	2090	2010	1940	1880	1820
240 x 88		2750	2630	2530	2440	2370	2300
290 x 88		3110	3110	3060	2950	2860	2780
300 x 88		3140	3140	3140	3050	2960	2870
315 x 88		3190	3190	3190	3190	3110	3020
350 x 88		3310	3310	3310	3310	3310	3270
360 x 88		3340	3340	3340	3340	3340	3330
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88		3870	3870	3870	3870	3870	3870
88 x 88	2000	940	910	880	850	830	810
140 x 88		1500	1450	1400	1360	1320	1290
190 x 88		2040	1970	1900	1840	1790	1750
240 x 88		2570	2480	2400	2330	2270	2210
290 x 88		3110	3000	2900	2810	2740	2670
300 x 88		3140	3100	3000	2910	2830	2760
315 x 88		3190	3190	3150	3050	2970	2900
350 x 88		3310	3310	3310	3310	3300	3220
360 x 88		3340	3340	3340	3340	3340	3290
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88		3870	3870	3870	3870	3870	3870



Table 29 (Continued): Red Stag Vertex₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°			Considering wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	890	860	840	820	800	780
140 x 88		1420	1380	1340	1300	1270	1240
190 x 88		1930	1870	1820	1770	1730	1690
240 x 88		2440	2360	2290	2230	2180	2130
290 x 88		2940	2850	2770	2700	2630	2570
300 x 88		3040	2950	2870	2790	2720	2660
315 x 88		3190	3100	3010	2930	2860	2790
350 x 88		3310	3310	3310	3250	3180	3100
360 x 88		3340	3340	3340	3340	3270	3190
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88	3860	3860	3860	3860	3860	3860	
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	4000	850	830	810	790	770	750
140 x 88		1360	1320	1290	1250	1230	1200
190 x 88		1840	1790	1740	1700	1670	1630
240 x 88		2320	2260	2200	2150	2100	2060
290 x 88		2800	2730	2660	2600	2540	2490
300 x 88		2900	2820	2750	2690	2630	2580
315 x 88		3050	2960	2890	2820	2760	2710
350 x 88		3310	3290	3210	3140	3070	3010
360 x 88		3340	3340	3300	3220	3150	3090
400 x 88		3460	3460	3460	3460	3460	3430
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88	3860	3860	3860	3860	3860	3860	
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	5000	820	800	780	760	750	730
140 x 88		1300	1270	1240	1210	1190	1170
190 x 88		1760	1720	1680	1650	1610	1580
240 x 88		2230	2170	2130	2080	2040	2000
290 x 88		2690	2630	2570	2510	2460	2420
300 x 88		2780	2720	2660	2600	2550	2500
315 x 88		2920	2850	2790	2730	2680	2630
350 x 88		3250	3170	3100	3030	2970	2920
360 x 88		3340	3260	3190	3120	3060	3000
400 x 88		3460	3460	3460	3460	3400	3330
405 x 88		3470	3470	3470	3470	3440	3370
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88	3860	3860	3860	3860	3860	3860	
600 x 88	3870	3870	3870	3870	3870	3870	



Table 29 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°		Considering wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	6000	780	760	750	730	720	710
140 x 88		1240	1210	1190	1170	1150	1130
190 x 88		1680	1650	1620	1590	1560	1530
240 x 88		2120	2080	2040	2010	1970	1940
290 x 88		2570	2520	2470	2420	2380	2340
300 x 88		2650	2600	2550	2510	2460	2420
315 x 88		2780	2720	2670	2620	2570	2530
350 x 88		3060	3000	2940	2890	2840	2790
360 x 88		3140	3070	3020	2960	2910	2860
400 x 88		3450	3380	3320	3260	3200	3150
405 x 88		3470	3420	3360	3300	3240	3190
450 x 88		3600	3600	3600	3600	3570	3510
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



1.8.2. Vertex₂₀ Floor Lintel Span Table: Heavy Roof $\leq 25^\circ$ (No Face Loading)

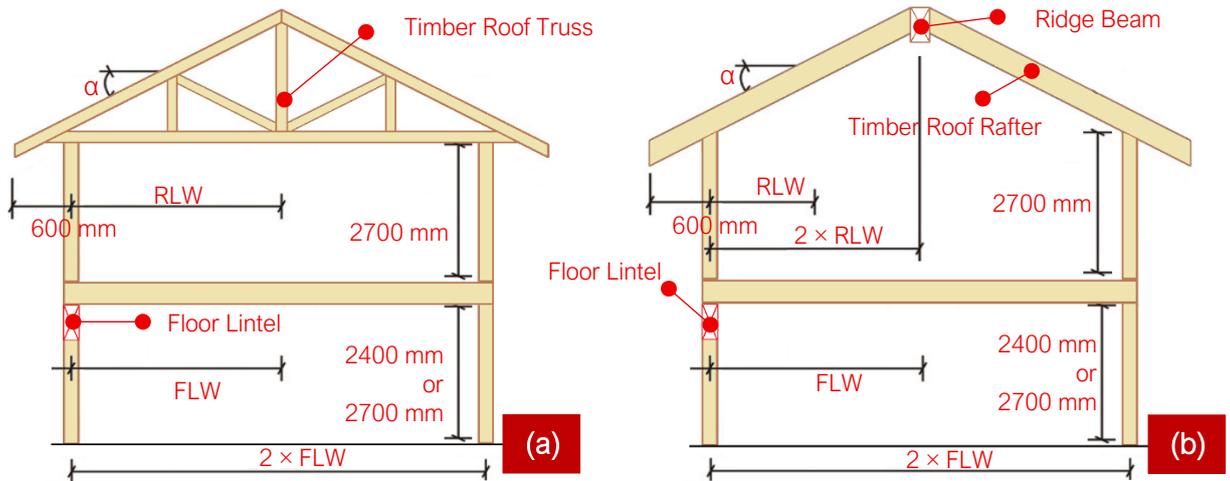


Figure 30: Red Stag Vertex₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 30: Red Stag Vertex ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 0° to 25° Ignoring wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	z	970	930	900	870	840
140 x 88		1610	1540	1480	1430	1380	1340
190 x 88		2180	2090	2010	1940	1880	1820
240 x 88		2750	2630	2530	2440	2370	2300
290 x 88		3320	3180	3060	2950	2860	2780
300 x 88		3440	3290	3160	3050	2960	2870
315 x 88		3610	3450	3320	3200	3110	3020
350 x 88		4000	3830	3680	3560	3450	3350
360 x 88		4120	3940	3790	3660	3550	3450
400 x 88		4570	4370	4210	4060	3940	3830
88 x 88	2000	940	910	880	850	830	810
140 x 88		1500	1450	1400	1360	1320	1290
190 x 88		2040	1970	1900	1840	1790	1750
240 x 88		2570	2480	2400	2330	2270	2210
290 x 88		3110	3000	2900	2810	2740	2670
300 x 88		3210	3100	3000	2910	2830	2760
315 x 88		3370	3250	3150	3050	2970	2900
350 x 88		3750	3610	3500	3390	3300	3220
360 x 88		3850	3720	3600	3490	3390	3310
400 x 88		4280	4130	3990	3870	3770	3680

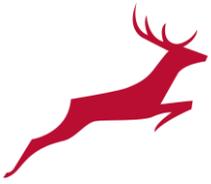


Table 30 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 0° to 25°		Ignoring wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	890	860	840	820	800	780
140 x 88		1420	1380	1340	1300	1270	1240
190 x 88		1930	1870	1820	1770	1730	1690
240 x 88		2440	2360	2290	2230	2180	2130
290 x 88		2940	2850	2770	2700	2630	2570
300 x 88		3040	2950	2870	2790	2720	2660
315 x 88		3190	3100	3010	2930	2860	2790
350 x 88		3550	3440	3340	3250	3180	3100
360 x 88		3650	3530	3440	3350	3270	3190
400 x 88		4050	3930	3820	3720	3630	3550
88 x 88	4000	850	830	810	790	770	750
140 x 88		1360	1320	1290	1250	1230	1200
190 x 88		1840	1790	1740	1700	1670	1630
240 x 88		2320	2260	2200	2150	2100	2060
290 x 88		2800	2730	2660	2600	2540	2490
300 x 88		2900	2820	2750	2690	2630	2580
315 x 88		3050	2960	2890	2820	2760	2710
350 x 88		3380	3290	3210	3140	3070	3010
360 x 88		3480	3390	3300	3220	3150	3090
400 x 88		3860	3760	3670	3580	3500	3430
88 x 88	5000	820	800	780	760	750	730
140 x 88		1300	1270	1240	1210	1190	1170
190 x 88		1760	1720	1680	1650	1610	1580
240 x 88		2230	2170	2130	2080	2040	2000
290 x 88		2690	2630	2570	2510	2460	2420
300 x 88		2780	2720	2660	2600	2550	2500
315 x 88		2920	2850	2790	2730	2680	2630
350 x 88		3250	3170	3100	3030	2970	2920
360 x 88		3340	3260	3190	3120	3060	3000
400 x 88		3700	3620	3540	3460	3400	3330
88 x 88	6000	780	760	750	730	720	710
140 x 88		1240	1210	1190	1170	1150	1130
190 x 88		1680	1650	1620	1590	1560	1530
240 x 88		2120	2080	2040	2010	1970	1940
290 x 88		2570	2520	2470	2420	2380	2340
300 x 88		2650	2600	2550	2510	2460	2420
315 x 88		2780	2720	2670	2620	2570	2530
350 x 88		3060	3000	2940	2890	2840	2790
360 x 88		3140	3070	3020	2960	2910	2860
400 x 88		3450	3380	3320	3260	3200	3150



1.8.3. Vertix₂₀ Floor Lintel Span Table: Heavy Roof 25°-45° (Face Loading)

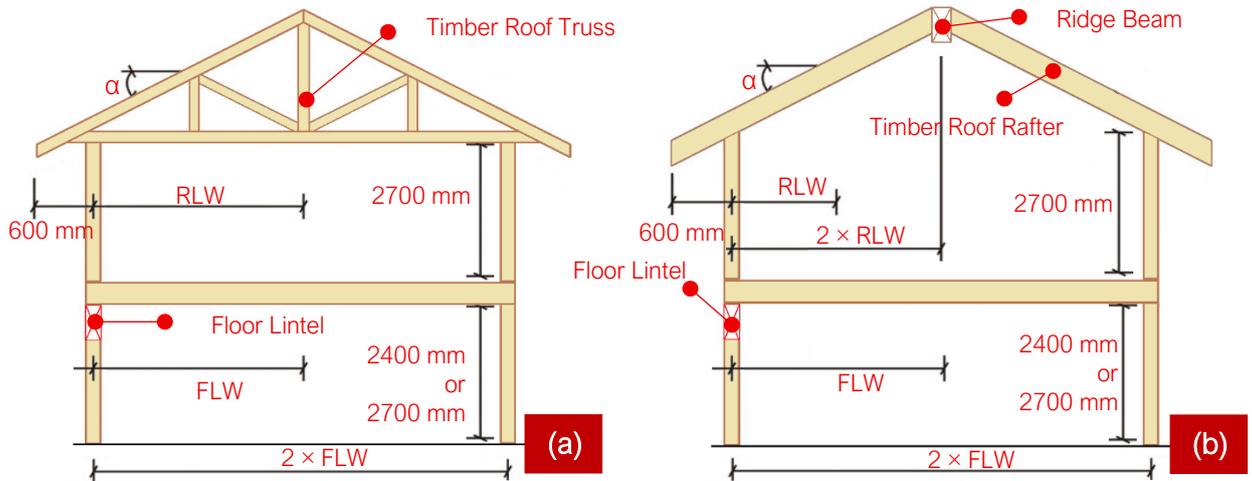


Figure 31: Red Stag Vertix₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 31: Red Stag Vertix ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	990	940	900	860	830	800
140 x 88		1570	1490	1420	1370	1320	1280
190 x 88		2130	2020	1930	1860	1790	1730
240 x 88		2690	2550	2440	2340	2260	2190
290 x 88		3110	3080	2950	2830	2730	2650
300 x 88		3140	3140	3050	2930	2830	2740
315 x 88		3190	3190	3190	3070	2970	2870
350 x 88		3310	3310	3310	3310	3290	3160
360 x 88		3340	3340	3340	3340	3340	3220
400 x 88		3460	3460	3460	3460	3460	3460
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	
88 x 88	2000	930	890	850	820	800	770
140 x 88		1480	1410	1360	1310	1270	1230
190 x 88		2000	1920	1840	1780	1720	1670
240 x 88		2530	2420	2330	2250	2180	2110
290 x 88		3050	2920	2810	2710	2630	2550
300 x 88		3140	3020	2900	2810	2720	2640
315 x 88		3190	3170	3050	2940	2850	2770
350 x 88		3310	3310	3310	3270	3170	3080
360 x 88		3340	3340	3340	3340	3260	3170
400 x 88		3460	3460	3460	3460	3460	3440
405 x 88		3470	3470	3470	3470	3470	3470
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



Table 31 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45° Considering wind face load					
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	880	850	820	790	770	750
140 x 88		1400	1350	1300	1260	1230	1190
190 x 88		1900	1830	1770	1710	1660	1620
240 x 88		2400	2310	2230	2160	2100	2050
290 x 88		2890	2790	2690	2610	2540	2470
300 x 88		2990	2880	2790	2700	2630	2560
315 x 88		3140	3030	2920	2840	2760	2690
350 x 88		3310	3310	3250	3150	3060	2980
360 x 88		3340	3340	3340	3240	3150	3070
400 x 88		3460	3460	3460	3460	3460	3400
405 x 88		3470	3470	3470	3470	3470	3430
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88		3870	3870	3870	3870	3870	3870
88 x 88	4000	840	810	790	770	750	730
140 x 88		1340	1290	1250	1220	1190	1160
190 x 88		1810	1750	1700	1650	1610	1570
240 x 88		2290	2220	2150	2090	2040	1990
290 x 88		2770	2680	2600	2520	2460	2400
300 x 88		2860	2770	2680	2610	2550	2490
315 x 88		3000	2900	2820	2740	2670	2610
350 x 88		3310	3230	3130	3040	2970	2900
360 x 88		3340	3320	3220	3130	3050	2980
400 x 88		3460	3460	3460	3460	3390	3310
405 x 88		3470	3470	3470	3470	3430	3350
450 x 88		3600	3600	3600	3600	3600	3600
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88		3870	3870	3870	3870	3870	3870
88 x 88	5000	810	780	760	740	720	710
140 x 88		1280	1250	1210	1180	1150	1130
190 x 88		1740	1690	1650	1600	1570	1530
240 x 88		2200	2140	2080	2030	1980	1940
290 x 88		2660	2580	2510	2450	2390	2340
300 x 88		2750	2670	2600	2530	2470	2420
315 x 88		2890	2800	2730	2660	2600	2540
350 x 88		3200	3110	3030	2950	2880	2820
360 x 88		3300	3200	3110	3040	2970	2900
400 x 88		3460	3460	3460	3370	3290	3220
405 x 88		3470	3470	3470	3410	3330	3260
450 x 88		3600	3600	3600	3600	3600	3580
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88		3870	3870	3870	3870	3870	3870



Table 31 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45°		Considering wind face load			
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	6000	770	750	730	720	700	690
140 x 88		1230	1200	1170	1140	1120	1090
190 x 88		1670	1620	1590	1550	1520	1490
240 x 88		2100	2050	2000	1960	1920	1880
290 x 88		2540	2480	2420	2370	2320	2270
300 x 88		2630	2560	2500	2450	2400	2350
315 x 88		2750	2680	2620	2560	2500	2450
350 x 88		3020	2950	2880	2820	2760	2700
360 x 88		3100	3030	2960	2890	2830	2770
400 x 88		3420	3330	3260	3180	3120	3050
405 x 88		3460	3370	3290	3220	3150	3090
450 x 88		3600	3600	3600	3540	3470	3400
495 x 88		3680	3680	3680	3680	3680	3680
500 x 88		3690	3690	3690	3690	3690	3690
540 x 88		3770	3770	3770	3770	3770	3770
550 x 88		3780	3780	3780	3780	3780	3780
595 x 88		3860	3860	3860	3860	3860	3860
600 x 88	3870	3870	3870	3870	3870	3870	



1.8.4. Vertix₂₀ Floor Lintel Span Table: Heavy Roof 25°-45°

(No Face Loading)

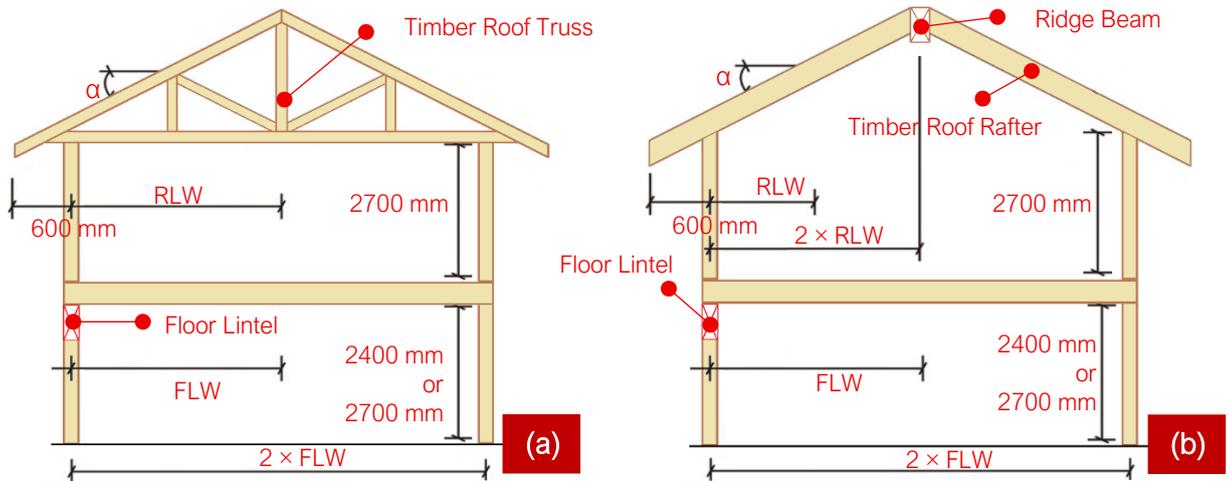


Figure 32: Red Stag Vertix₂₀ floor lintel beam; a) Timber roof truss, b) Timber roof rafter.

Table 32: Red Stag Vertix ₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α : 25° to 45°			Ignoring wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	1000	990	940	900	860	830	800
140 x 88		1570	1490	1420	1370	1320	1280
190 x 88		2130	2020	1930	1860	1790	1730
240 x 88		2690	2550	2440	2340	2260	2190
290 x 88		3250	3080	2950	2830	2730	2650
300 x 88		3360	3190	3050	2930	2830	2740
315 x 88		3520	3340	3200	3070	2970	2870
350 x 88		3910	3710	3550	3410	3290	3190
360 x 88		4020	3820	3650	3510	3390	3280
400 x 88		4460	4240	4050	3900	3760	3640
88 x 88	2000	930	890	850	820	800	770
140 x 88		1480	1410	1360	1310	1270	1230
190 x 88		2000	1920	1840	1780	1720	1670
240 x 88		2530	2420	2330	2250	2180	2110
290 x 88		3050	2920	2810	2710	2630	2550
300 x 88		3150	3020	2900	2810	2720	2640
315 x 88		3310	3170	3050	2940	2850	2770
350 x 88		3680	3520	3390	3270	3170	3080
360 x 88		3780	3620	3480	3360	3260	3170
400 x 88		4200	4020	3870	3730	3620	3520

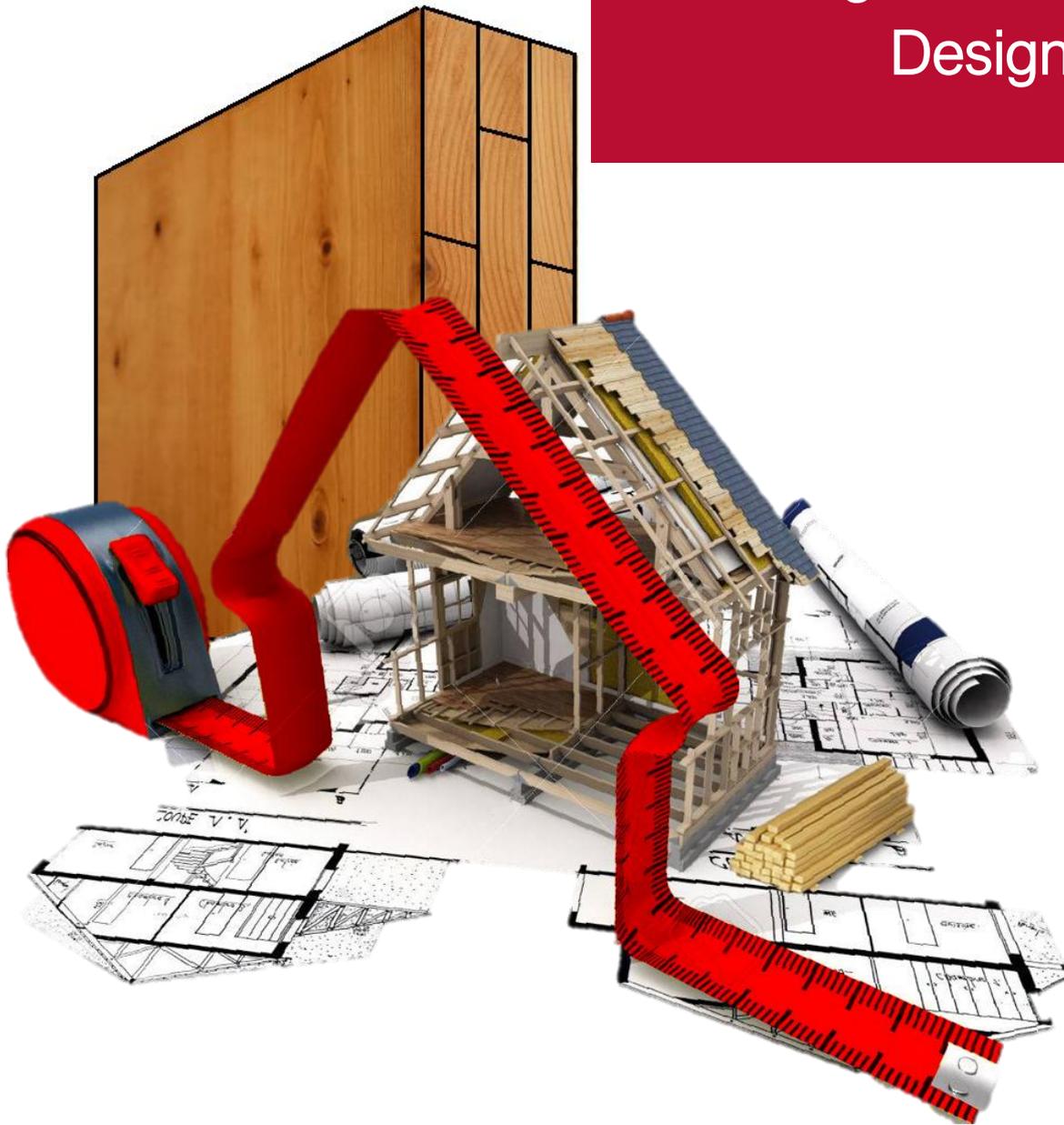


Table 32 (Continued): Red Stag Vertix₂₀ Floor Lintel Beam Span Table.							
Roof Weight: Heavy		Roof Pitch α: 25° to 45°			Ignoring wind face load		
		Wind Zone: Low to Extra High					
Beam Size mm x mm	Floor Loaded Width (mm)	Roof Loaded Width (mm)					
		1000	2000	3000	4000	5000	6000
88 x 88	3000	880	850	820	790	770	750
140 x 88		1400	1350	1300	1260	1230	1190
190 x 88		1900	1830	1770	1710	1660	1620
240 x 88		2400	2310	2230	2160	2100	2050
290 x 88		2890	2790	2690	2610	2540	2470
300 x 88		2990	2880	2790	2700	2630	2560
315 x 88		3140	3030	2920	2840	2760	2690
350 x 88		3490	3360	3250	3150	3060	2980
360 x 88		3590	3450	3340	3240	3150	3070
400 x 88		3980	3840	3710	3600	3500	3410
88 x 88	4000	840	810	790	770	750	730
140 x 88		1340	1290	1250	1220	1190	1160
190 x 88		1810	1750	1700	1650	1610	1570
240 x 88		2290	2220	2150	2090	2040	1990
290 x 88		2770	2680	2600	2520	2460	2400
300 x 88		2860	2770	2680	2610	2550	2490
315 x 88		3000	2900	2820	2740	2670	2610
350 x 88		3330	3230	3130	3040	2970	2900
360 x 88		3430	3320	3220	3130	3050	2980
400 x 88		3810	3680	3570	3480	3390	3310
88 x 88	5000	810	780	760	740	720	710
140 x 88		1280	1250	1210	1180	1150	1130
190 x 88		1740	1690	1650	1600	1570	1530
240 x 88		2200	2140	2080	2030	1980	1940
290 x 88		2660	2580	2510	2450	2390	2340
300 x 88		2750	2670	2600	2530	2470	2420
315 x 88		2890	2800	2730	2660	2600	2540
350 x 88		3200	3110	3030	2950	2880	2820
360 x 88		3300	3200	3110	3040	2970	2900
400 x 88		3660	3550	3460	3370	3290	3220
88 x 88	6000	770	750	730	720	700	690
140 x 88		1230	1200	1170	1140	1120	1090
190 x 88		1670	1620	1590	1550	1520	1490
240 x 88		2100	2050	2000	1960	1920	1880
290 x 88		2540	2480	2420	2370	2320	2270
300 x 88		2630	2560	2500	2450	2400	2350
315 x 88		2750	2680	2620	2560	2500	2450
350 x 88		3020	2950	2880	2820	2760	2700
360 x 88		3100	3030	2960	2890	2830	2770
400 x 88		3420	3330	3260	3180	3120	3050



Section 2

Red Stag Vertix & GLT_n Design Guide



Make it better

Red Stag Vertix & GLT_n Design Guide V1.3
November 2025





2.1. Factory Overview

Red Stag TimberLab (Red Stag) is a speciality Engineered Wood Product (EWP) manufacturer focusing on the integration of timber solutions into traditional, industrial, mid, and high-rise construction. Red Stag is focused on developing new products and solutions to enhance productivity, cost effectiveness and the environmental impact associated with the construction sector. *Figure 1* shows the Red Stag EWP site in Rotorua.



Figure 1: Red Stag's primary EWP site in Rotorua.



2.2. Red Stag Bricked GLT Overview

Red Stag manufactures traditional Glue Laminated Timber (GLT) from its Auckland manufacturing site and bricked GLT (Vertex and GLT_h) in Rotorua. This design guide focuses on Vertex and GLT_h as a cost effective solution that has superior stability and stiffness to traditional structural timber and can be produced in varying depths, thicknesses, and lengths to suit project needs.

Vertex and GLT_h are produced with PUR adhesives for Finger Jointing (FJ) and face laminating (neither product is edge glued). Vertex products are designed so that the lamella (boards) are orientated vertically in application. GLT_h has lamella running horizontally in line with traditional GLT so the boards remain horizontal in application (refer to *Figure 2*).

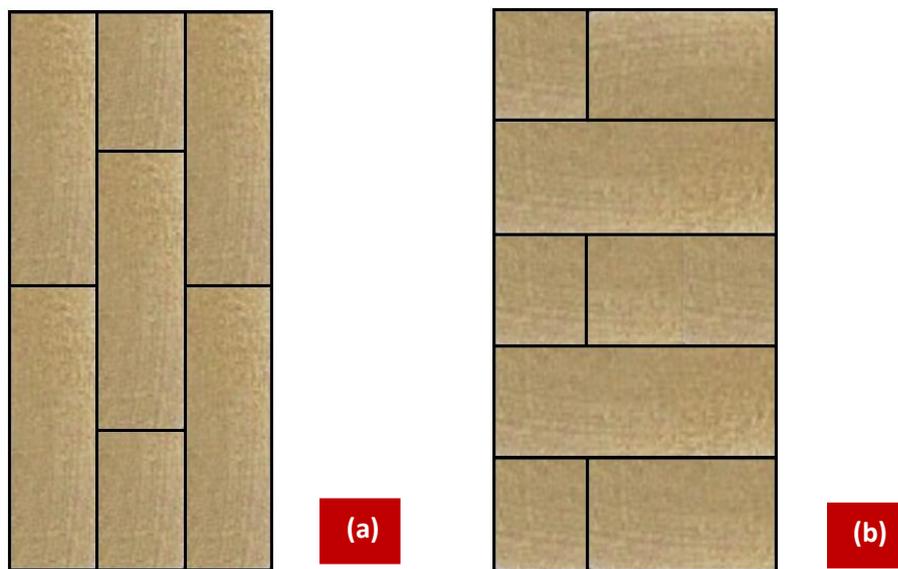
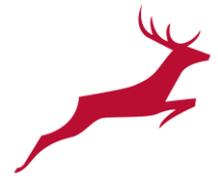


Figure 2: Red Stag Bricked GLT; a) Vertex; b) GLT_h.

GLT is significantly lighter than steel, embodies carbon, and can be designed to perform comparably. EWP are often chosen over steel or concrete for their appearance and are often credited with creating a warm and comfortable feel to a building. Vertex and GLT_h beams are very energy efficient to produce, requiring only a small fraction of the energy required to produce steel or concrete. Vertex and GLT_h are a great option for commercial and residential projects where strength, seismic performance and visual appearance are important.

Red Stag Vertex and GLT_h consist of a number of graded, treated, kiln dried laminations, typically 20, 34 (for 88 mm thick gauges: 34-20-34), and 42 mm thick, bonded with structural adhesive.

FJ are used to join short pieces of timber together to form lamella up to 17 m in length. The FJ is comprised of series of inter-meshed wedges or “fingers” in two adjacent pieces of



timber, which are held together with structural adhesive. Vertical FJ are where the fingers are visible across the face of the board, while horizontal joints only show a single straight joint line across the face of the board (refer to *Figure 3*). Red Stag GLT beams currently comprise of vertical FJ, but in the future, will be a combination of horizontal and vertical FJ. The profile of a common Red Stag finger joint is presented in *Figure 3c*.

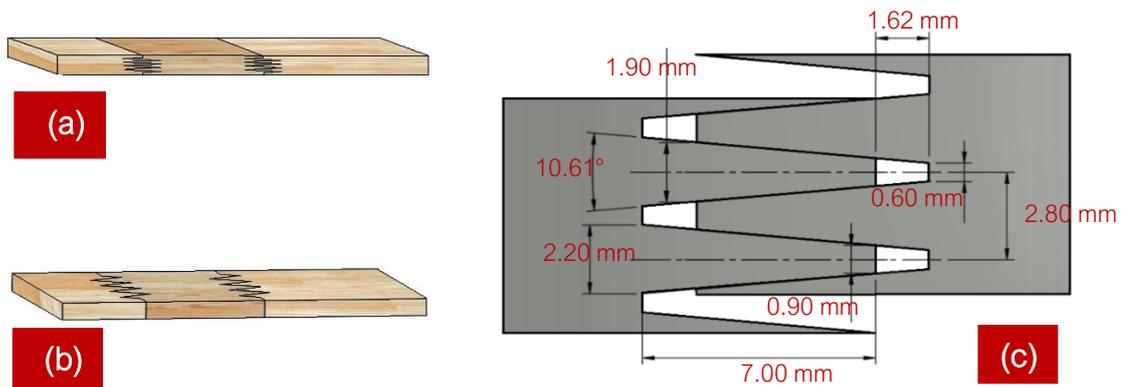


Figure 3: Finger Joint Details; a) Horizontal Finger Joint, b) Vertical Finger Joint, c) Red Stag standard 7 mm Finger Joint.

2.2.1 Treatment

Red Stag treat all EWP feedstock to a minimum of H1.2 (Boron). H1.2 treatment is suitable for the majority of EWP applications; however, the option also exists for H3.2 (Copper Chromium Arsenic (CCA)) treatment in applications that have higher risk of exposure to moisture. It is essential that Clients refer to the Building Code and the project design specifications to confirm the correct treatment solution is selected for each application and EWP element.

EWP elements are typically manufactured with the same treatment solution throughout the cross section (typically, the opportunity does not exist to treat different layers with alternate treatment options).

2.2.1.1 H1.2 Boron

Boron is a natural element that is used to support the preservation of timber. Boron is frequently added to soil to lift the nutrient uptake and human dietary supplements to improve health and wellbeing.



Typically, structural timber elements with boron treatment have a pink light fast dye added to illustrate the presence of treatment. As Red Stag provides visual grade options, investment has been made in clear boron treatment infrastructure. The clear boron solution ensures the performance of all treated feedstock (raw feedstock) adheres to the New Zealand NZS3640:2003 (Chemical preservation of round and sawn timber) standard.

Based on clear Boron feedstock being used, Clients should not see any tangible aesthetic difference between Red Stag's H1.2 treated EWP and untreated alternates. Examples of Red Stag EWP with traditional dyed H1.2 and clear H1.2 treatments are shown in *Figure 4*.

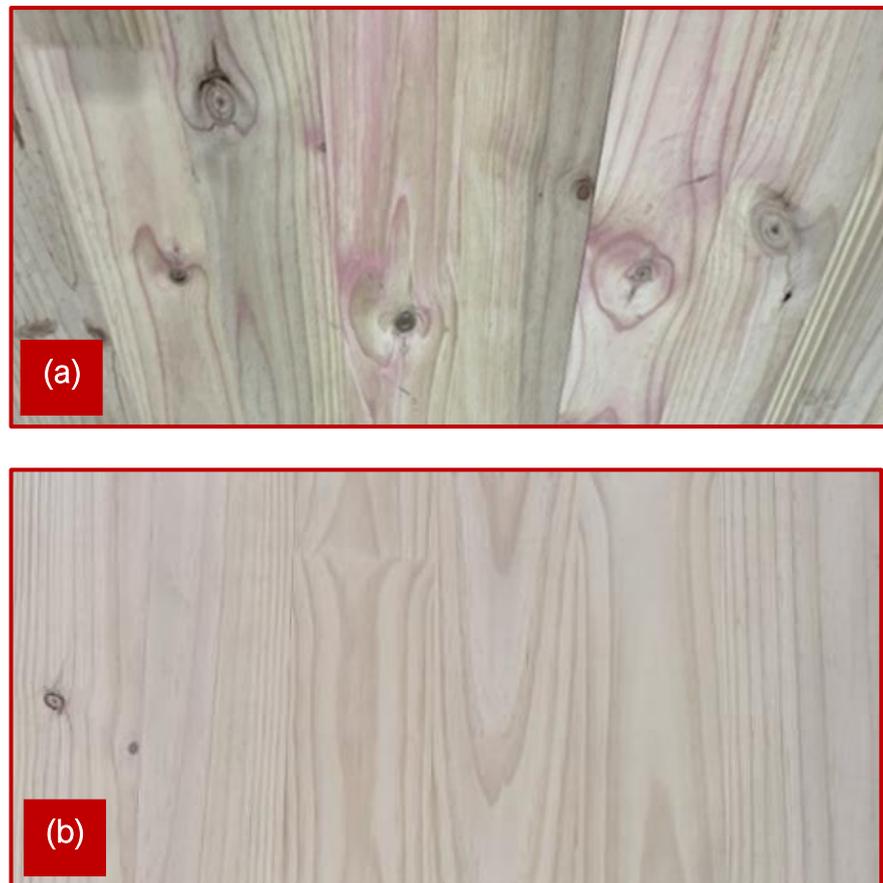


Figure 4: Red Stag H1.2 treated EWP panels: a) Traditional pink dyed H1.2 treatment post planing; b) Clear H1.2 Treatment.



2.2.1.2 H3.2 CCA

Red Stag also provides the option to treat to a H3.2 level for applications where there is a higher risk of exposure to moisture.

Due to the chemical composition of H3.2 treatment (Copper, Chromium and Arsenic), the finished EWP will have a slightly green appearance in the timber (refer to Figure 5).



Figure 5: Red Stag H3.2 treated EWP panels generating a slight green tinge; a) Wider view; b) Close view.



2.3. Red Stag GLT Structural Testing

Red Stag Vertix and GLT_h can be produced in a wide range of sizes, depth, widths, and lengths. The scale manufacturing facility has the ability to manufacture Vertix and GLT_h up to 16.5 x 4.5 x 0.42 m (Length × Width × Depth).

The lamella making up each layer of Red Stag Vertix and GLT_h are not edge glued, leaving the joints between lamella free to expand and contract in response to changes in temperature and relative humidity. This format provides a natural humidity buffer for comfortable occupation and reduces the frequency of surface checking (longitudinal cracks in the timber grain) within individual boards in each lamella.

Regardless of the grade (standard [nonvisual], standard plus, or visual) of the GLT element, a slight gap may exist between lamella in each layer. Due to the hygroscopic properties of timber, this board gap may increase as the timber dries and may reduce when the Environmental Moisture Content (EMC) increases. Refer to *Figure 6*

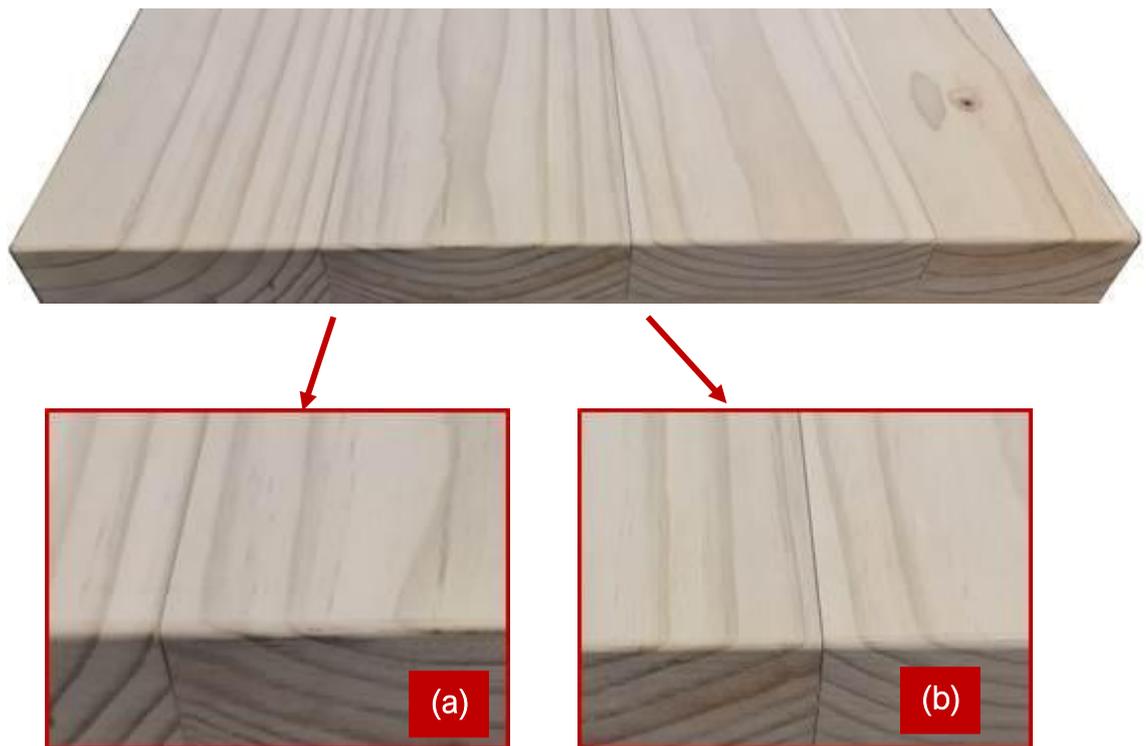


Figure 6: Gaps between lamella in each layer of Red Stag GLT elements.

Red Stag GLT beams have been assessed by the University of Auckland (UoA) Structural Laboratory based on AS/NZS 1328 (Glued laminated structural timber — Performance requirements and minimum production requirements) and AS/NZS 4063 (Characterisation of structural timber - Test methods). Refer to *Figure 7*.



The Red Stag Vertex and GLT_h beams are made of timber boards (lamella) with an average MoE of no less than 8 GPa for Vertex₁₀ and GLT_h8 and no less than 10 GPa for Vertex₂₀ and GLT_h10. The average UoA test results from 120 repetitions are summarised in *Figure 8* and *Figure 9*.

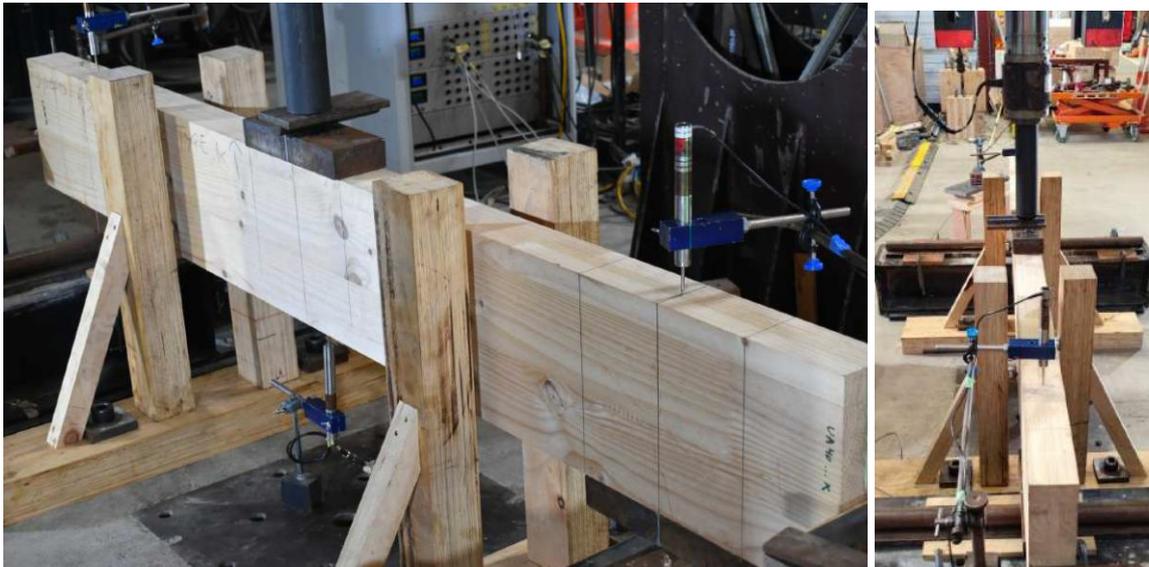


Figure 7: Red Stag GLT beam test set-up at third party testing partner (UoA Structural Laboratory).

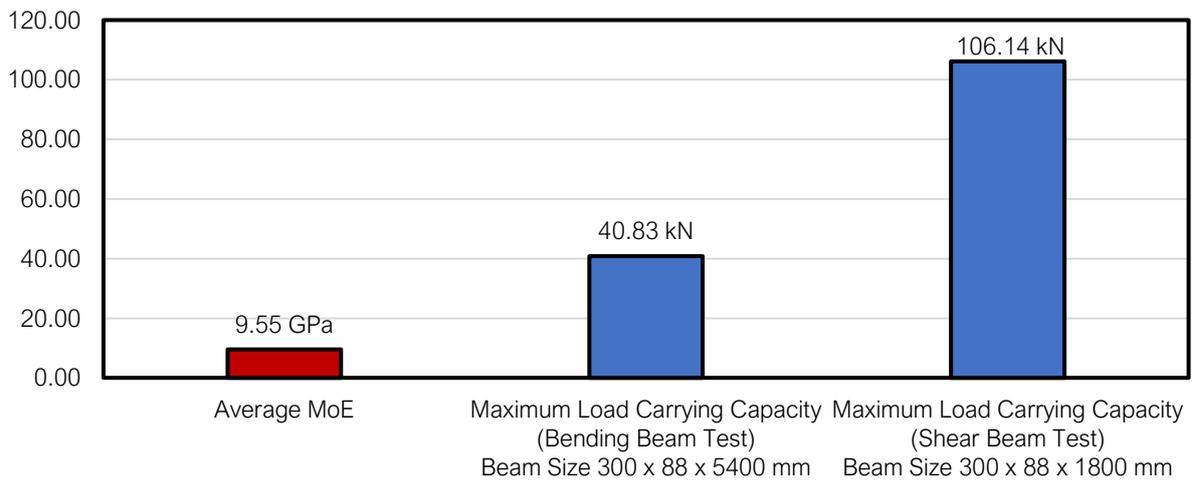


Figure 8: Average Maximum Load Carrying and Modulus of Elasticity (MoE) test results of Red Stag Vertex₁₀.

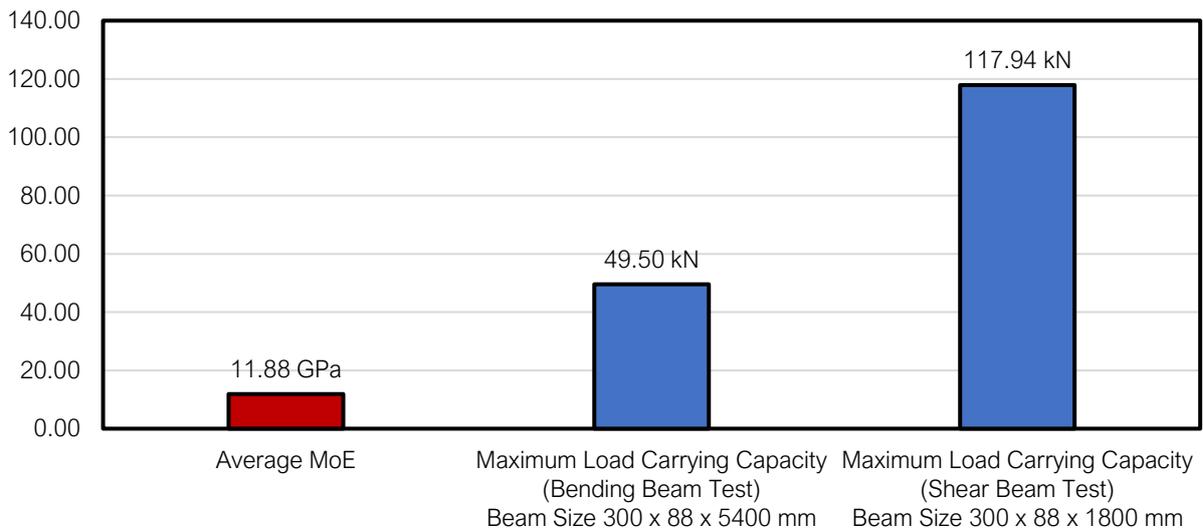


Figure 9: Average Maximum Load Carrying and Modulus of Elasticity (MoE) test results of Red Stag Vertix₂₀.

Third party experimental testing of Red Stag GLT beams confirms the structural performance and ability to carry applied structural service loads for beam or lintel applications. The test results demonstrate that the Red Stag GLT performs better than the respective characteristic strengths defined in AS/NZS1328:1998 and AS1720.1 2010 standards (refer to *Figure 10* to *Figure 13*).

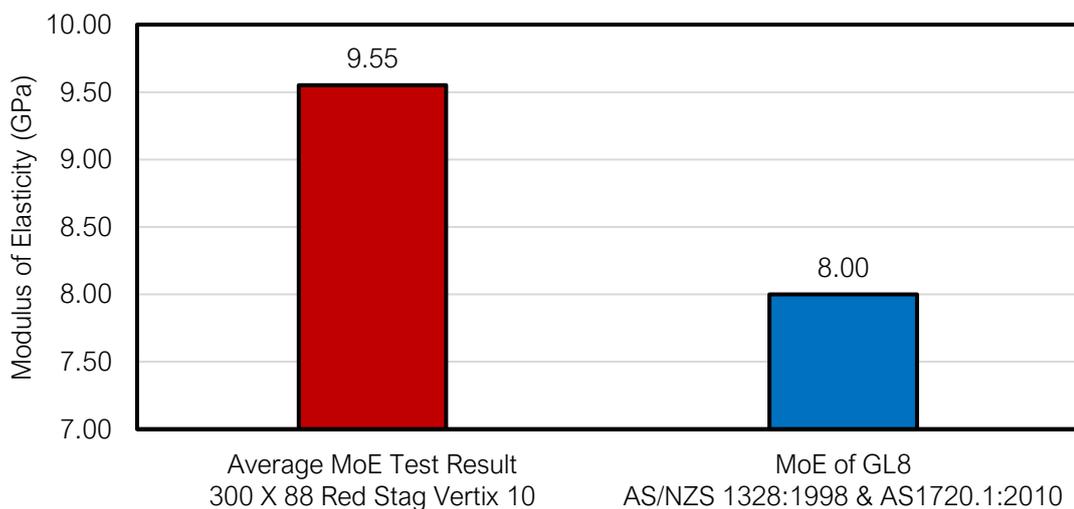


Figure 10: Red Stag Vertix₁₀ average MoE test results compared to AS/NZS 1328.1998 & AS1720.1:2020.

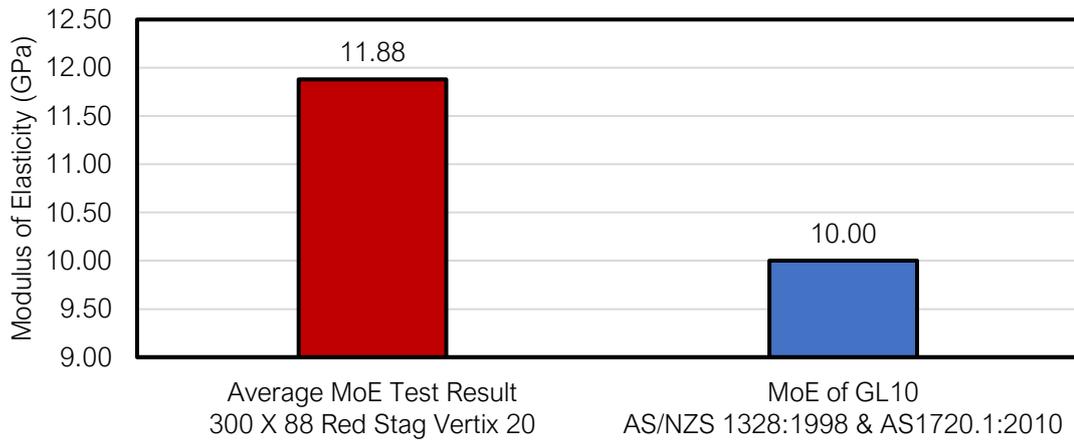


Figure 11: Red Stag Vertex₂₀ average MoE test results compared to AS/NZS 1328.1998 & AS1720.1:2020.

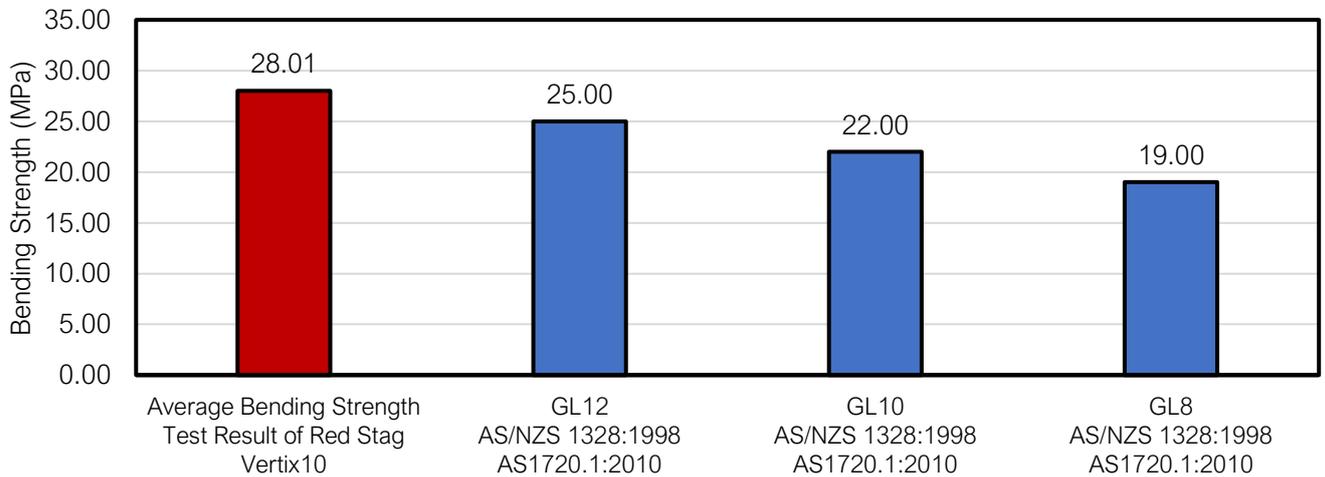


Figure 12: Red Stag Vertex₁₀ average bending strength test results compared to AS/NZS 1328.1998 & AS1720.1:2020.

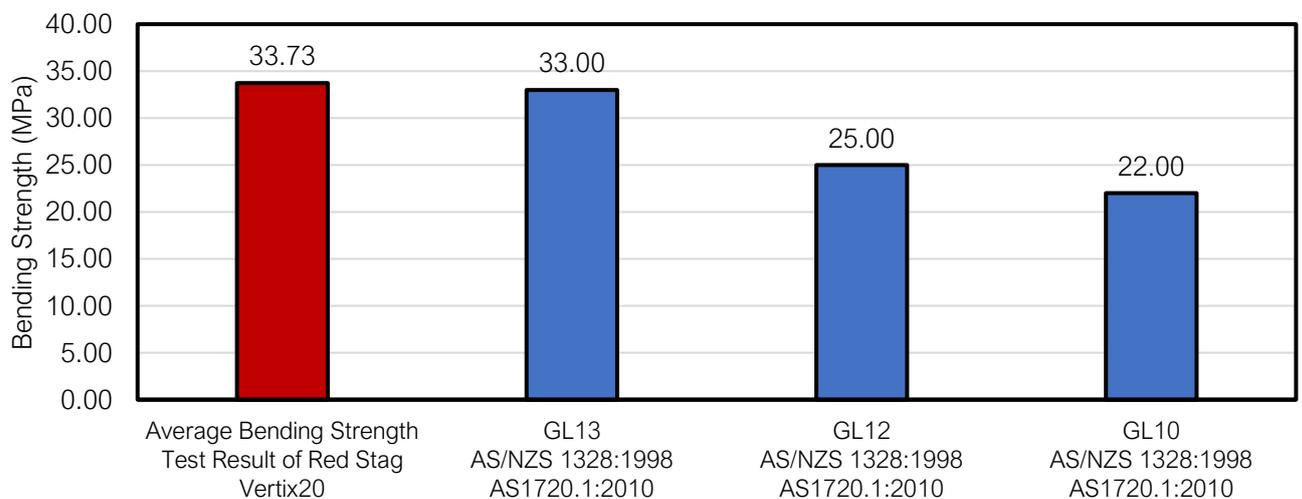


Figure 13: Red Stag Vertex₂₀ average bending strength test results compared to AS/NZS 1328.1998 & AS1720.1:2020.



Red Stag completed extensive third-party GLT testing with UoA Structural Laboratory to determine shear strength (short-span beams), bending strength, and MoE (long-span beams). Red Stag Vertex and GLT_h design characteristic properties from these assessments are presented in *Table 33* and *Table 34*, while the section characteristics are summarised in *Table 35* to *Table 37*. Experimental testing was conducted in accordance with AS/NZS 1328 (Glued laminated structural timber — Performance requirements and minimum production requirements) and AS/NZS 4063.1 (Characterisation of structural timber — Test methods).

Table 33: Vertex Design Characteristic Properties		
Property	Vertex ₁₀	Vertex ₂₀
Bending strength	21 MPa	24 MPa
Critical section shear strength (in-plane)	10 MPa	12 MPa
Shear strength (out-of-plane)	2.3 MPa	2.8 MPa
Modulus of elasticity (MoE)	9.2 GPa	11.7 GPa

Table 34: GLT_h and Traditional GLT Design Characteristic Properties			
Property	GLT _h 8	GLT _h 10	GLT _h 12
Bending strength	19 MPa	22 MPa	25 MP
Shear strength (out-of-plane)	3.7 MPa	3.7 MPa	4.2 MPa
Modulus of elasticity (E)	8 GPa	10 GPa	11.5 GPa

Table 35: Red Stag Vertex₁₀ Beam Properties									
Red Stag GLT Beam Type	Dimensions and Properties			In-Plane Actions			Out of Plane Actions		
	Width (mm)	Depth (mm)	Modulus of Elasticity (GPa)	ØM _{vertex10,xx} (kN.m)	ØV _{vertex10,y} (kN)	EI _{vertex10,xx} (10 ¹² N.mm ²)	ØM _{vertex10,yy} (kN.m)	ØV _{vertex10,x} (kN)	EI _{vertex10,yy} (10 ¹² N.mm ²)
88 x 88 Vertex ₁₀	88 34-20-34	88	8-8-8	1.9	41.3	0.05	41.3	1.9	0.046
140 x 88 Vertex ₁₀	88 34-20-34	140	8-8-8	4.8	65.7	0.19	65.7	3.0	0.073
190 x 88 Vertex ₁₀	88 34-20-34	190	8-8-8	8.9	89.2	0.46	89.2	4.1	0.099
240 x 88 Vertex ₁₀	88 34-20-34	240	8-8-8	14.2	112.6	0.93	112.6	5.2	0.13
290 x 88 Vertex ₁₀	88 34-20-34	290	8-8-8	20.7	136.1	1.66	136.1	6.3	0.15
300x88 Vertex ₁₀	88 34-20-34	300	8-8-8	22.2	140.8	1.82	140.8	6.5	0.16
315x88 Vertex ₁₀	88 34-20-34	315	8-8-8	24.3	147.8	2.11	147.8	6.8	0.16
350x88 Vertex ₁₀	88 34-20-34	350	8-8-8	29.4	164.3	2.89	164.3	7.4	0.18
360x88 Vertex ₁₀	88 34-20-34	360	8-8-8	31.0	169.0	3.15	169.0	7.6	0.19
400x88 Vertex ₁₀	88 34-20-34	400	8-8-8	37.6	187.7	4.32	187.7	8.3	0.21
405x88 Vertex ₁₀	88 34-20-34	405	8-8-8	38.4	190.1	4.48	190.1	8.4	0.21
450x88 Vertex ₁₀	88 34-20-34	450	8-8-8	46.6	211.2	6.15	211.2	9.1	0.24
495x88 Vertex ₁₀	88 34-20-34	495	8-8-8	55.5	232.3	8.18	232.3	9.9	0.26
500x88 Vertex ₁₀	88 34-20-34	500	8-8-8	56.6	234.7	8.43	234.7	10.0	0.26
540x88 Vertex ₁₀	88 34-20-34	540	8-8-8	65.1	253.4	10.62	253.4	10.6	0.28
550x88 Vertex ₁₀	88 34-20-34	550	8-8-8	67.4	258.1	11.22	258.1	10.8	0.29
595x88 Vertex ₁₀	88 34-20-34	595	8-8-8	77.8	279.3	14.21	279.3	11.5	0.31



600x88 Vertix ₁₀	88 34-20-34	600	8-8-8	79.0	281.6	14.57	281.6	11.6	0.31
126 x 126 Vertix ₁₀	126 42-42-42	126	8-8-8	5.6	84.7	0.19	84.7	5.6	0.19
250 x 126 Vertix ₁₀	126 42-42-42	240	8-8-8	22.1	168.0	1.51	168.0	11.1	0.38
300 x 126 Vertix ₁₀	126 42-42-42	300	8-8-8	31.8	201.6	2.61	201.6	13.3	0.46
350 x 126 Vertix ₁₀	126 42-42-42	350	8-8-8	42.1	235.2	4.14	235.2	15.2	0.54
400 x 126 Vertix ₁₀	126 42-42-42	400	8-8-8	53.8	268.8	6.18	268.8	17.0	0.61
450x126 Vertix ₁₀	126 42-42-42	450	8-8-8	66.8	302.4	8.8	302.4	18.7	0.69
500x126 Vertix ₁₀	126 42-42-42	500	8-8-8	81.0	336.0	11.3	336.0	20.4	0.77
550x126 Vertix ₁₀	126 42-42-42	550	8-8-8	96.5	369.6	16.07	369.6	22.1	0.84
600x126 Vertix ₁₀	126 42-42-42	600	8-8-8	113.1	403.2	20.87	403.2	23.8	0.92
650x126 Vertix ₁₀	126 42-42-42	650	8-8-8	131.0	436.8	26.53	436.8	25.4	1.0
700x126 Vertix ₁₀	126 42-42-42	700	8-8-8	150.1	470.4	33.13	470.4	27.0	1.07
750x126 Vertix ₁₀	126 42-42-42	750	8-8-8	170.3	504.0	40.75	504.0	28.6	1.15
800x126 Vertix ₁₀	126 42-42-42	800	8-8-8	191.7	537.6	49.46	537.6	30.2	1.23
850x126 Vertix ₁₀	126 42-42-42	850	8-8-8	214.2	571.2	59.32	571.2	31.8	1.3
900x126 Vertix ₁₀	126 42-42-42	900	8-8-8	237.9	604.8	70.42	604.8	33.3	1.38
950x126 Vertix ₁₀	126 42-42-42	950	8-8-8	262.7	638.4	82.82	638.4	34.8	1.46
1000x126 Vertix ₁₀	126 42-42-42	1000	8-8-8	288.5	672.0	96.6	672.0	36.4	1.53
210 x 210 Vertix ₁₀	210 42-42-42-42-42	210	8-8-8-8-8	25.9	235.2	1.49	235.2	25.9	1.49
400 x 210 Vertix ₁₀	210 42-42-42-42-42	400	8-8-8-8-8	89.7	448.0	10.3	448.0	47.1	2.84
450 x 210 Vertix ₁₀	210 42-42-42-42-42	450	8-8-8-8-8	111.3	504.0	14.67	504.0	51.9	3.2
500 x 210 Vertix ₁₀	210 42-42-42-42-42	210	8-8-8-8-8	135.0	560.0	20.13	560.0	56.7	3.55
550 x 210 Vertix ₁₀	210 42-42-42-42-42	400	8-8-8-8-8	168.0	616.0	26.79	616.0	61.4	3.91
600x210 Vertix ₁₀	210 42-42-42-42-42	600	8-8-8-8-8	188.5	672.0	34.78	672.0	66.0	4.26
650x210 Vertix ₁₀	210 42-42-42-42-42	650	8-8-8-8-8	218.3	728.0	44.21	728.0	70.5	4.62
700x210 Vertix ₁₀	210 42-42-42-42-42	700	8-8-8-8-8	250.1	784.0	55.22	784.0	75.0	4.97
750x210 Vertix ₁₀	210 42-42-42-42-42	750	8-8-8-8-8	283.8	840.0	67.92	840.0	79.5	5.33
800x210 Vertix ₁₀	210 42-42-42-42-42	800	8-8-8-8-8	319.5	896.0	82.43	896.0	83.9	5.68
850x210 Vertix ₁₀	210 42-42-42-42-42	850	8-8-8-8-8	357.0	952.0	98.87	952.0	88.2	6.04
900x210 Vertix ₁₀	210 42-42-42-42-42	900	8-8-8-8-8	396.5	1008.0	117.37	1008.0	92.5	6.39
950x210 Vertix ₁₀	210 42-42-42-42-42	950	8-8-8-8-8	437.8	1064.0	138.04	1064.0	96.8	6.75
1000x210 Vertix ₁₀	210 42-42-42-42-42	1000	8-8-8-8-8	480.9	1120.0	161.0	1120.0	101.0	7.1
1050x210 Vertix ₁₀	210 42-42-42-42-42	1050	8-8-8-8-8	525.9	1176.0	186.38	1176.0	105.2	7.46
1100x210 Vertix ₁₀	210 42-42-42-42-42	1100	8-8-8-8-8	572.7	1232.0	214.29	1232.0	109.3	7.81
1150x210 Vertix ₁₀	210 42-42-42-42-42	1150	8-8-8-8-8	621.3	1288.0	244.86	1288.0	113.5	8.17
1200x210 Vertix ₁₀	210 42-42-42-42-42	1200	8-8-8-8-8	671.7	1344.0	278.21	1344.0	117.6	8.52
1250x210 Vertix ₁₀	210 42-42-42-42-42	1250	8-8-8-8-8	723.9	1400.0	314.45	1400.0	121.6	8.88
1300x210 Vertix ₁₀	210 42-42-42-42-42	1300	8-8-8-8-8	777.9	1456.0	353.72	1456.0	125.7	9.23
1350x210 Vertix ₁₀	210 42-42-42-42-42	1350	8-8-8-8-8	833.6	1512.0	396.12	1512.0	129.7	9.59
1400x210 Vertix ₁₀	210 42-42-42-42-42	1400	8-8-8-8-8	891.1	1568.0	441.78	1568.0	133.7	9.94
1450x210 Vertix ₁₀	210 42-42-42-42-42	1450	8-8-8-8-8	950.3	1624.0	490.83	1624.0	137.6	10.30
1500x210 Vertix ₁₀	210 42-42-42-42-42	1500	8-8-8-8-8	1011.2	1680.0	543.38	1680.0	141.6	10.65

Load duration factor (k1) is taken 1.0 for short-term loading only.



Table 36: Red Stag Vertix₂₀ Beam Properties

Red Stag GLT Beam Type	Dimensions and Properties			In-Plane Actions			Out-of Plane Actions		
	Width (mm)	Depth (mm)	Modulus of Elasticity (GPa)	ØM _{vertix20, XX} (kN.m)	ØV _{vertix20, Y} (kN)	El _{vertix20, XX} (10 ¹² N.mm ²)	ØM _{vertix20, YY} (kN.m)	ØV _{vertix20, X} (kN)	El _{vertix20, YY} (10 ¹² N.mm ²)
88 x 88 Vertix ₂₀	88 34-20-34	88	10-10-10	2.2	49.6	0.06	49.6	2.2	0.068
140 x 88 Vertix ₂₀	88 34-20-34	140	10-10-10	5.5	78.9	0.24	78.9	3.5	0.093
190 x 88 Vertix ₂₀	88 34-20-34	190	10-10-10	10.2	107.0	0.59	107.0	4.7	0.13
240 x 88 Vertix ₂₀	88 34-20-34	240	10-10-10	16.2	135.2	1.19	135.2	6.0	0.16
290 x 88 Vertix ₂₀	88 34-20-34	290	10-10-10	23.7	163.3	2.09	163.3	7.2	0.19
300x88 Vertix ₂₀	88 34-20-34	300	10-10-10	25.3	169.0	2.32	169.0	7.4	0.2
315x88 Vertix ₂₀	88 34-20-34	315	10-10-10	27.7	177.4	2.68	177.4	7.7	0.21
350x88 Vertix ₂₀	88 34-20-34	350	10-10-10	33.6	197.1	3.68	197.1	8.5	0.23
360x88 Vertix ₂₀	88 34-20-34	360	10-10-10	35.4	202.8	4.0	202.8	8.7	0.24
400x88 Vertix ₂₀	88 34-20-34	400	10-10-10	42.9	225.3	5.49	225.3	9.5	0.27
405x88 Vertix ₂₀	88 34-20-34	405	10-10-10	43.9	228.1	5.7	228.1	9.6	0.27
450x88 Vertix ₂₀	88 34-20-34	450	10-10-10	53.3	253.4	7.82	253.4	10.4	0.3
495x88 Vertix ₂₀	88 34-20-34	495	10-10-10	63.5	278.8	10.41	278.8	11.3	0.33
500x88 Vertix ₂₀	88 34-20-34	500	10-10-10	64.6	281.6	10.73	281.6	11.4	0.33
540x88 Vertix ₂₀	88 34-20-34	540	10-10-10	74.4	304.1	13.51	304.1	12.1	0.36
550x88 Vertix ₂₀	88 34-20-34	550	10-10-10	77.0	309.8	14.27	309.8	12.3	0.37
595x88 Vertix ₂₀	88 34-20-34	595	10-10-10	88.9	335.1	18.07	335.1	13.2	0.4
600x88 Vertix ₂₀	88 34-20-34	600	10-10-10	90.3	337.9	18.53	337.9	13.2	0.4
126 x 126 Vertix ₂₀	126 42-42-42	126	10-10-10	25.2	201.6	1.92	201.6	12.7	0.49
250 x 126 Vertix ₂₀	126 42-42-42	240	10-10-10	36.3	241.9	3.32	241.9	15.2	0.59
300 x 126 Vertix ₂₀	126 42-42-42	300	10-10-10	48.1	282.2	5.27	282.2	17.3	0.68
350 x 126 Vertix ₂₀	126 42-42-42	350	10-10-10	61.5	322.6	7.86	322.6	19.4	0.78
400 x 126 Vertix ₂₀	126 42-42-42	400	10-10-10	76.3	362.9	11.19	362.9	21.4	0.88
450x126 Vertix ₂₀	126 42-42-42	450	10-10-10	92.6	403.2	15.36	403.2	23.3	0.98
500x126 Vertix ₂₀	126 42-42-42	500	10-10-10	110.2	443.5	20.35	443.5	25.3	1.07
550x126 Vertix ₂₀	126 42-42-42	550	10-10-10	129.3	483.8	26.64	483.8	27.2	1.17
600x126 Vertix ₂₀	126 42-42-42	600	10-10-10	149.7	524.2	33.74	524.2	29.0	1.27
650x126 Vertix ₂₀	126 42-42-42	650	10-10-10	171.5	564.5	42.14	564.5	30.9	1.37
700x126 Vertix ₂₀	126 42-42-42	700	10-10-10	194.6	604.8	51.83	604.8	32.7	1.46
750x126 Vertix ₂₀	126 42-42-42	750	10-10-10	219.1	645.1	62.9	645.1	34.5	1.56
800x126 Vertix ₂₀	126 42-42-42	800	10-10-10	244.8	685.4	75.45	685.4	36.3	1.66
850x126 Vertix ₂₀	126 42-42-42	850	10-10-10	271.9	725.8	89.56	725.8	38.1	1.76
900x126 Vertix ₂₀	126 42-42-42	900	10-10-10	300.2	766.1	105.33	766.1	39.8	1.85
950x126 Vertix ₁₀	126 42-42-42	950	10-10-10	329.8	806.4	122.85	806.4	41.6	1.95
1000x126 Vertix ₁₀	126 42-42-42	100	10-10-10	25.2	201.6	1.92	201.6	12.7	0.49
210 x 210 Vertix ₂₀	210 42-42-42-42-42	210	10-10-10-10-10	29.6	282.2	1.9	282.2	29.6	1.9
400 x 210 Vertix ₂₀	210 42-42-42-42-42	400	10-10-10-10-10	102.5	537.6	13.1	537.6	53.8	3.61
450 x 210 Vertix ₂₀	210 42-42-42-42-42	450	10-10-10-10-10	127.2	604.8	18.66	604.8	59.4	4.06
500 x 210 Vertix ₂₀	210 42-42-42-42-42	210	10-10-10-10-10	154.3	672.0	25.59	672.0	64.8	4.51
550 x 210 Vertix ₂₀	210 42-42-42-42-42	400	10-10-10-10-10	183.7	739.2	34.07	739.2	70.1	4.97
600x210 Vertix ₂₀	210 42-42-42-42-42	600	10-10-10-10-10	215.5	806.4	44.23	806.4	75.4	5.42



650x210 Vertix ₂₀₀	210 42-42-42-42-42	650	10-10-10-10-10	249.5	873.6	56.23	873.6	80.6	5.87
700x210 Vertix ₂₀₀	210 42-42-42-42-42	700	10-10-10-10-10	285.8	940.8	70.23	940.8	85.8	6.32
750x210 Vertix ₂₀₀	210 42-42-42-42-42	750	10-10-10-10-10	324.4	1008.0	86.38	1008.0	90.8	6.77
800x210 Vertix ₂₀₀	210 42-42-42-42-42	800	10-10-10-10-10	365.1	1075.2	104.83	1075.2	95.8	7.22
850x210 Vertix ₂₀₀	210 42-42-42-42-42	850	10-10-10-10-10	408.0	1142.4	125.74	1142.4	100.8	7.68
900x210 Vertix ₂₀₀	210 42-42-42-42-42	900	10-10-10-10-10	453.1	1209.6	149.26	1209.6	105.7	8.13
950x210 Vertix ₂₀₀	210 42-42-42-42-42	950	10-10-10-10-10	500.3	1276.8	175.55	1276.8	110.6	8.58
1000x210 Vertix ₂₀₀	210 42-42-42-42-42	1000	10-10-10-10-10	549.6	1344.0	204.75	1344.0	115.4	9.03
1050x210 Vertix ₂₀₀	210 42-42-42-42-42	1050	10-10-10-10-10	601.0	1411.2	237.02	1411.2	120.2	9.48
1100x210 Vertix ₂₀₀	210 42-42-42-42-42	1100	10-10-10-10-10	654.5	1478.4	272.52	1478.4	125.0	9.93
1150x210 Vertix ₂₀₀	210 42-42-42-42-42	1150	10-10-10-10-10	710.1	1545.6	311.4	1545.6	129.7	10.38
1200x210 Vertix ₂₀₀	210 42-42-42-42-42	1200	10-10-10-10-10	767.7	1612.8	353.81	1612.8	134.4	10.84
1250x210 Vertix ₂₀₀	210 42-42-42-42-42	1250	10-10-10-10-10	827.3	1680.0	399.9	1680.0	139.0	11.29
1300x210 Vertix ₂₀₀	210 42-42-42-42-42	1300	10-10-10-10-10	889.0	1747.2	449.84	1747.2	143.6	11.74
1350x210 Vertix ₂₀₀	210 42-42-42-42-42	1350	10-10-10-10-10	952.7	1814.4	503.76	1814.4	148.2	12.19
1400x210 Vertix ₂₀₀	210 42-42-42-42-42	1400	10-10-10-10-10	1018.4	1881.6	561.83	1881.6	152.8	12.64
1450x210 Vertix ₂₀₀	210 42-42-42-42-42	1450	10-10-10-10-10	1068.0	1948.8	624.21	1948.8	157.3	13.09
1500x210 Vertix ₂₀₀	210 42-42-42-42-42	1450	10-10-10-10-10	1155.6	2016.0	691.03	2016.0	161.8	13.54

Load duration factor (k1) is taken 1.0 for short-term loading only.

Table 37: Red Stag GLT_h Beam Properties

Red Stag GLT Beam Type	Dimensions and Properties			In-Plane Actions			Out-of Plane Actions		
	Width (mm)	Depth (mm)	Modulus of Elasticity (GPa)	$\emptyset M_{GLT_h, xx}$ (kN.m)	$\emptyset V_{GLT_h, y}$ (kN)	$E_{GLT_h, xx}$ (10^{12} N.mm ²)	$\emptyset M_{GLT_h, yy}$ (kN.m)	$\emptyset V_{GLT_h, x}$ (kN)	$E_{GLT_h, yy}$ (10^{12} N.mm ²)
126 x 88 GLT _h 8	88	¹²⁶ 3-layer of 42	3-layer of MoE 8	3.5	21.9	0.12	2.5	7.3	0.057
168 x 88 GLT _h 8	88	¹⁶⁸ 4-layer of 42	4-layer of MoE 8	6.3	29.2	0.28	3.3	14.6	0.078
210 x 88 GLT _h 8	88	²¹⁰ 5-layer of 42	5-layer of MoE 8	9.8	36.5	0.54	4.1	14.6	0.095
252 x 88 GLT _h 8	88	²⁵² 6-layer of 42	6-layer of MoE 8	14.2	43.8	0.94	4.9	21.9	0.11
294 x 88 GLT _h 8	88	²⁹⁴ 7-layer of 42	7-layer of MoE 8	19.3	51.1	1.49	5.8	21.9	0.13
336 x 88 GLT _h 8	88	³³⁶ 8-layer of 42	8-layer of MoE 8	24.7	58.4	2.23	6.6	29.2	0.15
378 x 88 GLT _h 8	88	³⁷⁸ 9-layer of 42	9-layer of MoE 8	30.7	65.6	3.17	7.4	29.2	0.17
420 x 88 GLT _h 8	88	⁴²⁰ 10-layer of 42	10-layer of MoE 8	37.2	72.9	4.35	8.2	36.5	0.19
126 x 126 GLT _h 8	126	¹²⁶ 3-layer of 42	3-layer of MoE 8	6.1	31.3	0.17	5.1	10.4	0.17
168 x 126 GLT _h 8	126	¹⁶⁸ 4-layer of 42	4-layer of MoE 8	9	41.8	0.4	6.8	20.9	0.22
210 x 126 GLT _h 8	126	²¹⁰ 5-layer of 42	5-layer of MoE 8	14.1	52.2	0.78	8.5	20.9	0.28
252 x 126 GLT _h 8	126	²⁵² 6-layer of 42	6-layer of MoE 8	20.3	62.7	1.34	10.1	31.3	0.34
294 x 126 GLT _h 8	126	²⁹⁴ 7-layer of 42	7-layer of MoE 8	27.6	73.1	2.13	11.8	31.3	0.39
336 x 126 GLT _h 8	126	³³⁶ 8-layer of 42	8-layer of MoE 8	33.1	83.5	3.19	13.5	41.8	0.45
378 x 126 GLT _h 8	126	³⁷⁸ 9-layer of 42	9-layer of MoE 8	43.9	94	4.54	15.2	41.8	0.50
420 x 126 GLT _h 8	126	⁴²⁰ 10-layer of 42	10-layer of MoE 8	53.2	104.4	6.22	16.9	52.2	0.56
126 x 88 GLT _h 10	88	¹²⁶ 3-layer of 42	3-layer of MoE 10	4.1	21.9	0.15	2.9	7.3	0.072
168 x 88 GLT _h 10	88	¹⁶⁸ 4-layer of 42	4-layer of MoE 10	7.3	29.2	0.35	3.8	14.6	0.095
210 x 88 GLT _h 10	88	²¹⁰ 5-layer of 42	5-layer of MoE 10	11.4	36.5	0.68	4.8	14.6	0.12
252 x 88 GLT _h 10	88	²⁵² 6-layer of 42	6-layer of MoE 10	16.4	43.8	1.17	5.7	21.9	0.14



294 x 88 GLT_h10	88	294 7-layer of 42	7-layer of MoE 10	22.3	51.1	1.86	6.7	21.9	0.17
336 x 88 GLT_h10	88	336 8-layer of 42	8-layer of MoE 10	28.6	58.4	2.78	7.6	29.2	0.19
378 x 88 GLT_h10	88	378 9-layer of 42	9-layer of MoE 10	35.5	65.6	3.96	8.6	29.2	0.21
420 x 88 GLT_h10	88	420 10-layer of 42	10-layer of MoE 10	43.1	72.9	5.43	9.5	36.5	0.24
126 x 126 GLT_h10	126	126 3-layer of 42	3-layer of MoE 10	5.9	31.3	0.21	5.9	10.4	0.21
168 x 126 GLT_h10	126	168 4-layer of 42	4-layer of MoE 10	10.4	41.8	0.50	7.8	20.9	0.28
210 x 126 GLT_h10	126	210 5-layer of 42	5-layer of MoE 10	16.3	52.2	0.97	9.8	20.9	0.35
252 x 126 GLT_h10	126	252 6-layer of 42	6-layer of MoE 10	23.5	62.7	1.68	11.7	31.3	0.42
294 x 126 GLT_h10	126	294 7-layer of 42	7-layer of MoE 10	32.0	73.1	2.67	13.7	31.3	0.49
336 x 126 GLT_h10	126	336 8-layer of 42	8-layer of MoE 10	40.9	83.5	3.98	15.7	41.8	0.56
378 x 126 GLT_h10	126	378 9-layer of 42	9-layer of MoE 10	50.8	94.0	5.67	17.6	41.8	0.63
420 x 126 GLT_h10	126	420 10-layer of 42	10-layer of MoE 10	61.6	104.4	7.78	19.6	52.2	0.70
126 x 88 GLT_h12	88	126 3-layer of 42	3-layer of MoE 12	4.7	24.8	0.17	3.3	8.3	0.082
168 x 88 GLT_h12	88	168 4-layer of 42	4-layer of MoE 12	8.3	33.1	0.40	4.3	16.6	0.11
210 x 88 GLT_h12	88	210 5-layer of 42	5-layer of MoE 12	12.9	41.4	0.78	5.4	16.6	0.14
252 x 88 GLT_h12	88	252 6-layer of 42	6-layer of MoE 12	18.6	49.7	1.35	6.5	24.8	0.16
294 x 88 GLT_h12	88	294 7-layer of 42	7-layer of MoE 12	25.4	58	2.14	7.6	24.8	0.19
336 x 88 GLT_h12	88	336 8-layer of 42	8-layer of MoE 12	32.5	66.2	3.2	8.7	33.1	0.22
378 x 88 GLT_h12	88	378 9-layer of 42	9-layer of MoE 12	40.3	74.5	4.55	9.8	33.1	0.25
420 x 88 GLT_h12	88	420 10-layer of 42	10-layer of MoE 12	48.9	82.8	6.25	10.8	41.4	0.27
126 x 126 GLT_h12	126	126 3-layer of 42	3-layer of MoE 12	6.7	35.6	0.24	6.7	11.9	0.24
168 x 126 GLT_h12	126	168 4-layer of 42	4-layer of MoE 12	11.9	47.4	0.57	8.9	23.7	0.32
210 x 126 GLT_h12	126	210 5-layer of 42	5-layer of MoE 12	18.5	59.3	1.12	11.1	23.7	0.4
252 x 126 GLT_h12	126	252 6-layer of 42	6-layer of MoE 12	26.7	71.1	1.93	13.3	35.6	0.48
294 x 126 GLT_h12	126	294 7-layer of 42	7-layer of MoE 12	36.3	83	3.07	15.6	35.6	0.56
336 x 126 GLT_h12	126	336 8-layer of 42	8-layer of MoE 12	46.5	94.8	4.58	17.8	47.4	0.64
378 x 126 GLT_h12	126	378 9-layer of 42	9-layer of MoE 12	57.7	106.7	6.52	20	47.4	0.72
420 x 126 GLT_h12	126	420 10-layer of 42	10-layer of MoE 12	70	118.5	8.95	22.2	59.3	0.81

Load duration factor (k1) is taken 1.0 for short-term loading only.



2.4. Cost Benefits of Vertex & GLT_h Beams

Laminated timber structures are often able to offer the designer significant cost savings. These benefits are generated by the following:

- Lightweight Structures: Reduce the foundations and associated cost by approximately 30 percent compared to concrete and steel buildings.
- Inherent fire resistance rating, avoiding additional costs for applied fire protection usually required with steel members.
- Architectural appearance of Red Stag EWP beams eliminates costs associated with camouflaging concrete and steel in structures.
- Vertex and GLT_h are more cost effective than traditional GLT configurations.
- Ease of handling: Lighter members reduce transportation movements, crane sizes, and allow for the use of standard carpentry tools and labour.
- Speed: Prefabricated light weight components assist in reducing construction timeline, allowing buildings to be enclosed and completed faster.
- Direct Fixing: Timber substrates simplify the direct fixing of secondary services and utilities, reduces fixing time, noise, and debris/dust.



Red Stag Vertex and GLT_h members are suited to traditional beam applications such as lintels, beams, and purlins. An engineering design review is recommended to determine the suitability of Vertex and GLT_h for more complex applications, such as knee joints.

2.5.1 Red Stag Vertex and GLT_h Lintel Applications

Openings in timber frame walls are typically spanned by horizontal structural members known as lintels. Red Stag Vertex or GLT_h are structurally suitable to bridge openings such as windows and doors. *Figure 14* shows the integration of a Red Stag Vertex lintel in a Light Timber Frame (LTF) wall panel.

A simply supported continuous Red Stag Vertex or GLT_h lintel has structural advantages compared to a simply supported single span lintel system. The simply supported continuous Red Stag Vertex or GLT_h lintel systems have less deflection under similar load conditions (refer to *Figure 15*) and provide the ability to bridge much larger spans or distances between supports as compared to two piece structural timber lintels.

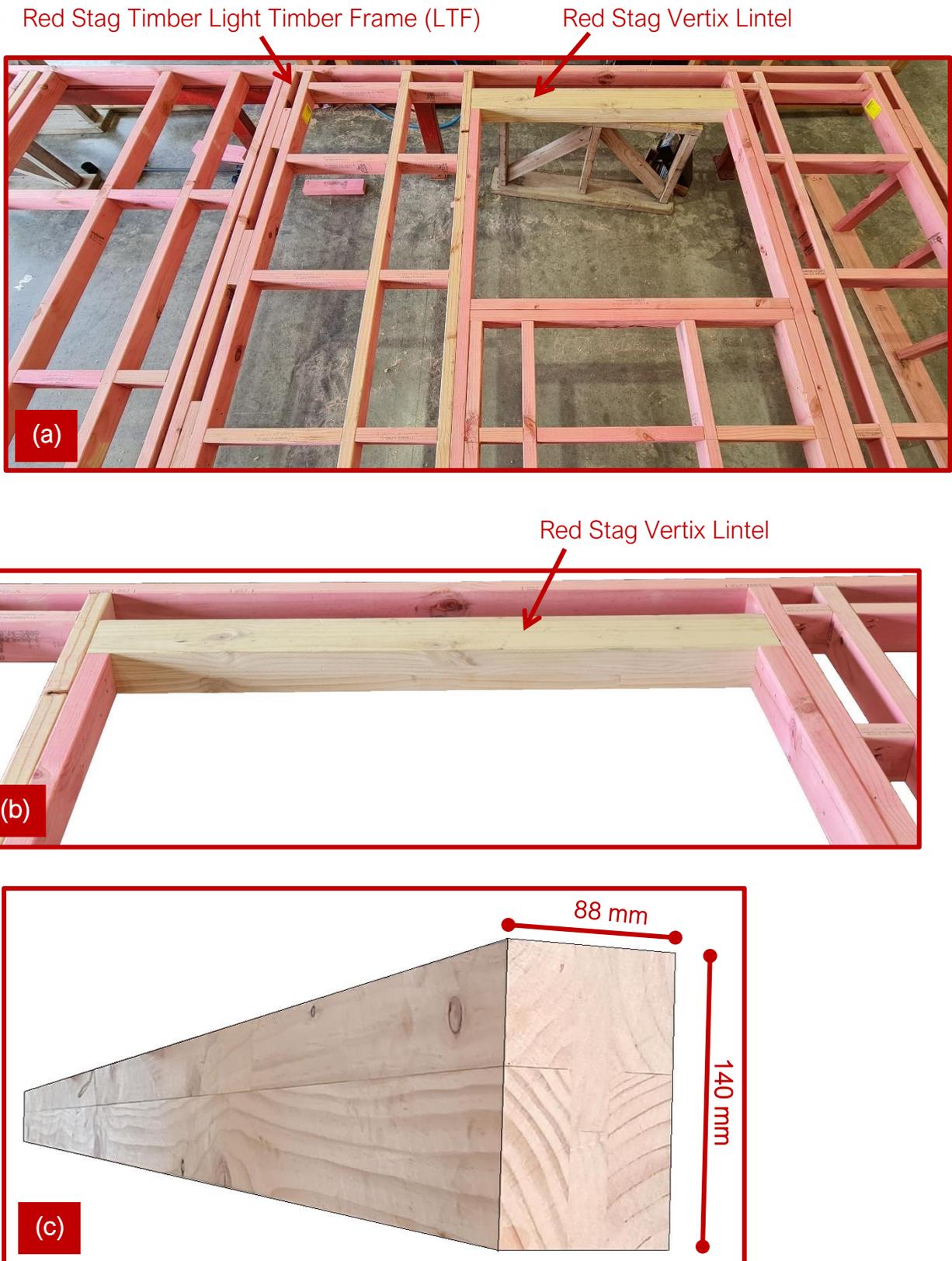


Figure 14: Red Stag Vertex or GLT_h lintel application; a) Red Stag Vertex lintel in LTF; b) Red Stag Vertex lintel over a window opening; c) Example of a common Red Stag Vertex lintel cross section.

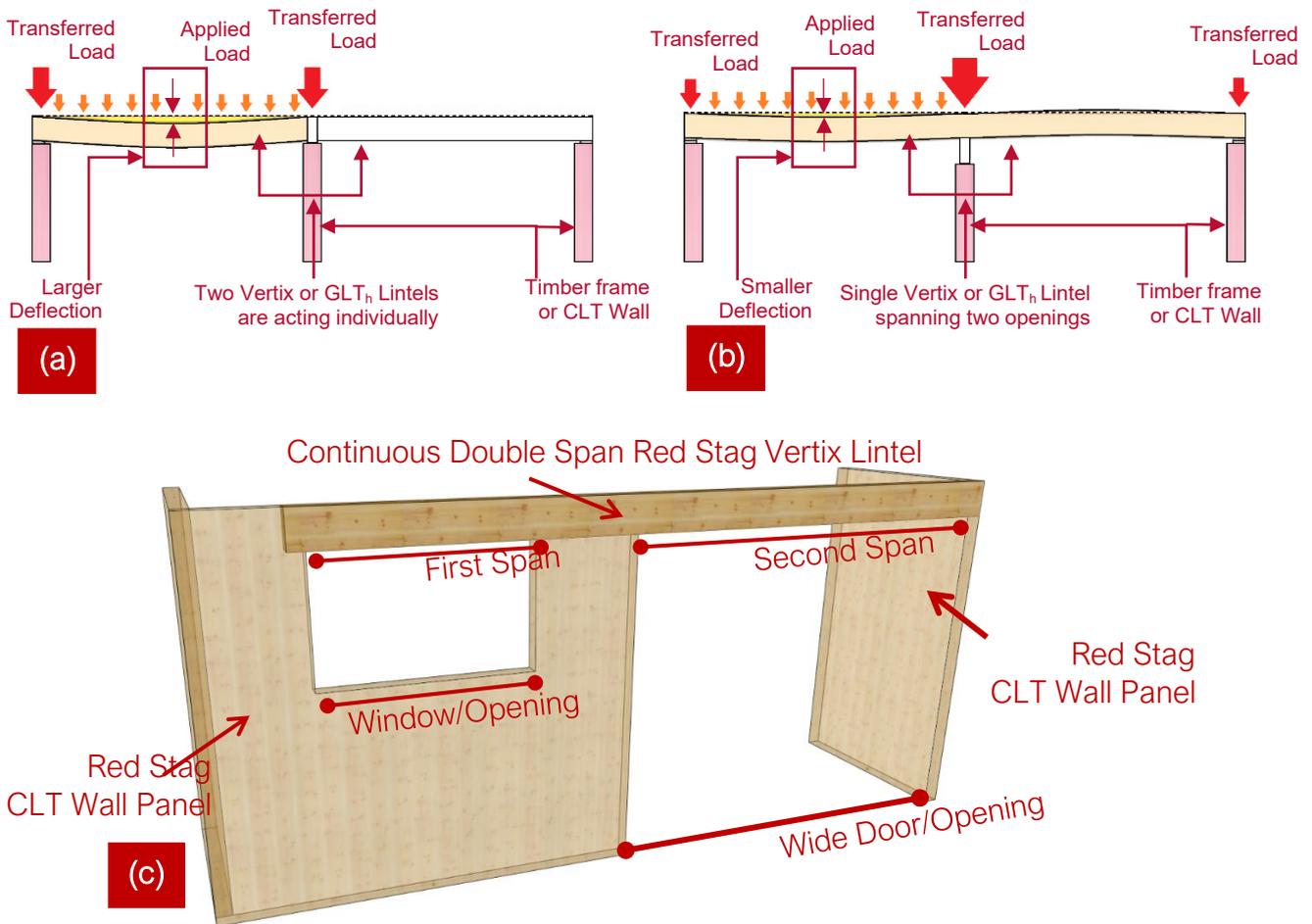


Figure 15: Comparison of deflections between single and double span Vertex lintels to support applied loads; a) Single span simply supported Vertex lintel*; b) Continuous double span simply supported Vertex lintel; c) Application of continuous double span simply supported Vertex over the door and window in a CLT building.

* Span tables in Red Stag Vertex and GLT_h Design Guide V1.3 consider single spans only.

2.5.2 Structural Applications for Red Stag Vertex and GLT_h Elements

Red Stag Vertex and GLT_h have a wide range of structural applications, including rafters and ridge beams, in addition to roof and floor lintels. The component references of rafters, ridge beams, roof, and floor lintel applications, along with the Roof Loaded Width (RLW) for roof lintels, Floor Loaded Width (FLW) for floor lintels, roof Beam Loaded Width (BLW) for ridge beams and roof pitch (α), are provided in *Figure 16*.

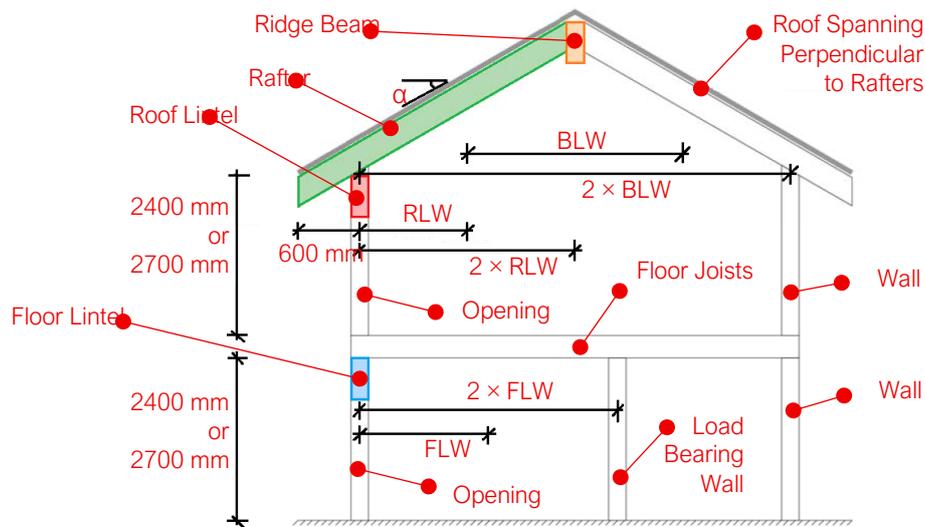


Figure 16: Typical Red Stag Vertix and GLT_h beam applications.

Span tables for Red Stag Vertix and GLT_h rafters, ridge beams, and roof and floor lintels are provided for different wind zones and roof pitches in *Table 38* to *Table 47*, and *Appendix A (Red Stag GLT Span Tables)*. For roof and floor lintels, two sets of tables are included: one that considers wind face loading and one that does not. The alternative tables that exclude wind face loading may be used when the lintel is continuously restrained in accordance with NZS 3604:2011.

2.5.3 Structural Loading and Design Limits for Red Stag Vertix and GLT_h Elements

The maximum spans of Red Stag Vertix and GLT_h members for various applications such as rafters, ridge beams, roof, and floor lintels are governed by different structural limitations, which are summarised below.

The loadings considered by the span tables are limited to dead, live, and wind design only. Snow and seismic loads are not considered. The span tables consider light or heavy dead loads, a range of loaded widths, and wind zones.

Since the beams can range from 88×88 to 1400×210, the self-weight of the beams is considered separately in addition to the tabulated dead loads below.



2.5.3.1 Gravity Loads on Red Stag Vertex and GLT_h Rafters, Ridge Beams and Roof Lintels

Light and heavy dead load allowances are provided in the *Table 38*. Dead loads including all roof system weight (roof and ceiling weight). Beam self-weight is excluded and shall be added to the tabulated dead loads below.

Table 38: Gravity Loads on Red Stag Vertex & GLT_h Rafters, Ridge Beams, and Roof Lintel.

Component	Type	Dead Load (G)		Live Load (Q)	
		UDL ^a (kPa)	UDL ^a (kPa)	UDL ^a (kPa)	PL ^b (kN)
Roof	Light	0.3	0.25	1.1	
	Heavy	0.8			

a Uniform Distributed Load.
b Point Load.
Live loads are based on NZS1170.1 (Structural Design Actions – Part1)

On rafters, the applied gravity loads (G and Q in *Figure 17*) are equal to the spacing of the rafters multiplied by the uniform loads in *Table 38* above (Dead Load and Live Load), accounting for a maximum 600 mm eave overhang. Note: Dead loads are amplified by $1/\cos(\alpha)$ to account for the roof pitch. For the design of the rafters themselves, the live load on the eaves of the rafters is not considered to worst effect (Q_{eave} excluded). For the design of the roof and floor lintels, the live load on the eaves of the rafters is considered to worst effect (Q_{eave} included).

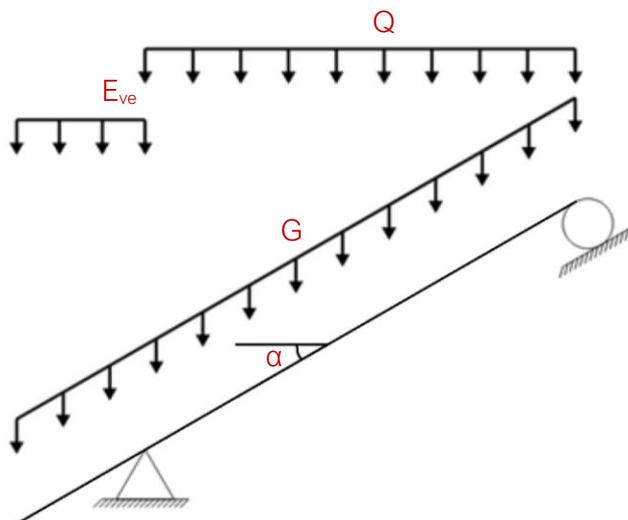


Figure 17: Gravity loads on Red Stag Vertex and GLT_h rafters.



On ridge beams, the applied gravity loads (G and Q in Figure 18) are equal to the roof loaded width (RLW in Figure 48) multiplied by the uniform loads in the table above (Dead Load and Live Load). Note: Dead loads are amplified by $1/\cos(\alpha)$ to account for the roof pitch. The effect of Q_{eve} is excluded to the worst effect.

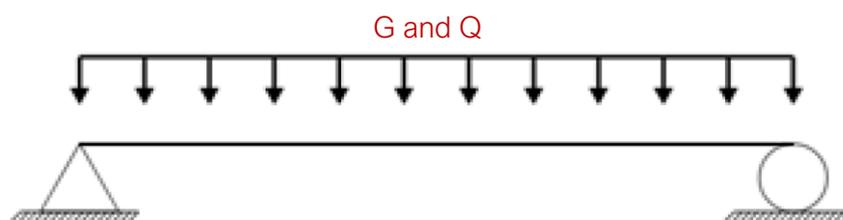


Figure 18: Gravity loads on Red Stag Vertix and GLT_h ridge beam.

On roof lintels, the applied gravity loads (G and Q in Figure 19) are equal to the roof loaded width (RLW in Figure 16) and the maximum 600 mm overhang for the eaves (Q_{eve} included), all multiplied by the uniform loads in the table above (Dead Load and Live Load). Note: Dead loads are amplified by $1/\cos(\alpha)$ to account for the roof pitch.

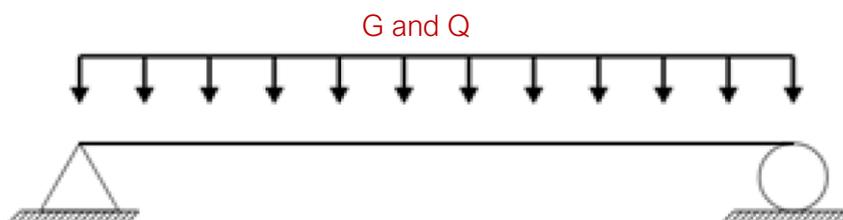
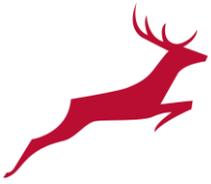


Figure 19: Gravity loads on Red Stag Vertix and GLT_h roof lintel.

2.5.3.2 2.3.5.2 Gravity Loads on Red Stag Vertix and GLT_h Floor Lintels

Table 39: Gravity Loads on Red Stag Vertix & GLT _h Floor Lintels				
Component	Type	Dead Load	Live Load	
		UDL ^a (kPa)	UDL ^a (kPa)	PL ^b (kN)
Roof (including framing & ceiling)	Light	0.3	0.25	-
	Heavy	0.8		
Wall	Light	0.45 (for 2.4 m wall height)		
	Heavy	1.2 (for 2.7 m wall height)		
Floor (including ceiling)	-	0.5	1.5	1.8

a Uniform Distributed Load.
b Point Load.
Live loads are based on NZS1170.1 (Structural Design Actions – Part1)



On floor lintels, the applied gravity loads (G and Q in *Figure 20*) are equal to the sum of the roof loads (Q_{eve} included), the wall loads, and the floor loads. The applied roof loads (G and Q in *Figure 52*) are as described for roof lintels in Section 2.3.5.1, accounting for the roof pitch. The applied wall loads (G in *Figure 20*) are equal to the assumed wall height multiplied by the uniform loads above (Dead Load). In the heavy configuration span tables, the heavy roof is applied concurrently with the heavy wall. In the light configuration span tables, the light roof is applied concurrently with the light wall. The wall height for light and heavy wall loadings is taken as 2.4 m and 2.7 m, respectively. The applied floor loads (G and Q in *Figure 20*) are equal to the Floor Loaded Width (FLW in *Figure 16*) multiplied by the uniform loads in the table above (Dead Load and Live Load). Note: floor lintels can be used as floor beams, but minimum wall and roof loadings should be considered as mentioned in Section 2.5.3.9 and 2.5.3.10.

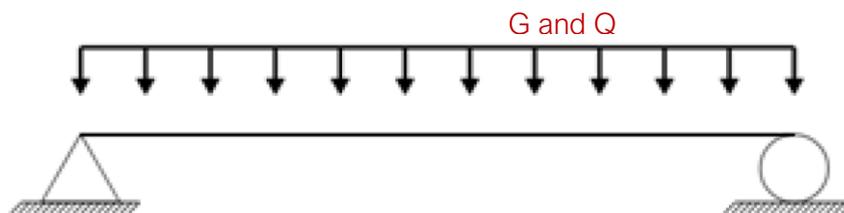


Figure 20: Gravity loads on Red Stag Vertex and GLT_h floor lintel.

2.5.3.3 Deflection and Vibration Criteria

The Shear deformations are considered to be negligible in Traditional Glulam, GLT_h and Vertex beams. Thus, only flexural deformations are considered. The creep factor (k_2) is applied for all long-term serviceability load cases. Vibration checks are not considered for any of the beam span tables except the floor lintels/beams. Deflections for all beams are only considered under uniformly distributed loads; point load deflections are assumed to be non-critical.

Long-term serviceability deflections (under $k_2 \cdot (G + \psi_l Q_u)$) are limited to $L_{\text{max}}/400$. Vertical deflections are considered for rafters, ridge beams, roof lintels, and floor lintels.



Short-term serviceability deflections (under $G+\psi_s Q_{li}$) are limited to $L_{max}/300$. Vertical deflections are considered for rafters, ridge beams, roof lintels, and floor lintels.

Wind serviceability deflections (under W_s) are limited to the lesser of $L_{max}/300$ and 12 mm. Vertical deflections are considered for rafters and ridge beams. Both vertical and horizontal deflections resulting from serviceability wind loads are considered for roof lintels and floor lintels.

Vibration checks for floor lintels/beams are limited to a 1 mm deflection limit under a 1 kN mid-span point load.

2.5.3.4 Wind Loads

Rafters, ridge beams, and roof lintels are designed for the five NZS3604 wind zones (Low, Medium, High, Very high and Extra high). Floor lintels are designed only for Extra high wind loads only, as gravity load cases typically govern. These design wind pressures already incorporate the climate change multiplier, the wind directional multipliers, the terrain/height multiplier, the shielding multiplier, and the topographic multiplier from NZS1170.2. The SLS design wind pressure is taken as 0.75 times the ULS design wind pressure, in line with AS/NZS 1170.2 pressure ratios, given the ULS wind and SLS1 annual probabilities of exceedance for a structure with a design life of 50 years and an importance level of 2 in NZ1 and NZ2 regions. These are summarized in the table below. The wind speeds for NZ3 and NZ4, as well as the ratio of SLS design wind pressure to ULS wind pressure are different. Therefore, the span tables do not apply to NZ3 and NZ4 regions as defined in AS/NZS 1170.2.

Table 40: Wind Pressure		
Wind Zone	ULS Pressure UDL ($p_{w,ULS}$, kPa)	SLS Pressure UDL ($p_{w,SLS}$, kPa)
Low	0.61	0.46
Medium	0.82	0.62
High	1.16	0.87
Very High	1.50	1.13
Extra High	1.82	1.36



On rafters, the applied wind loads (W in *Figure 21* and *Figure 22*) are equal to the spacing of the rafters multiplied by the basic wind pressures in the table above (p_w , depending on the wind zone and limit state) and the relevant pressure coefficients (C_{fig}) in the table below. The applied eave wind loads (W_{eve} in *Figure 22*, which only occur in the upward wind case) are also added. The wind loads on the eaves are equal to 600 mm (eave overhang) multiplied by the basic wind pressures in the table above (p_w , depending on the wind zone and limit state) and the relevant pressure coefficients (C_{fig}) in the table below. All rafter wind loads (W and W_{eve}) are applied perpendicular to the rafter.

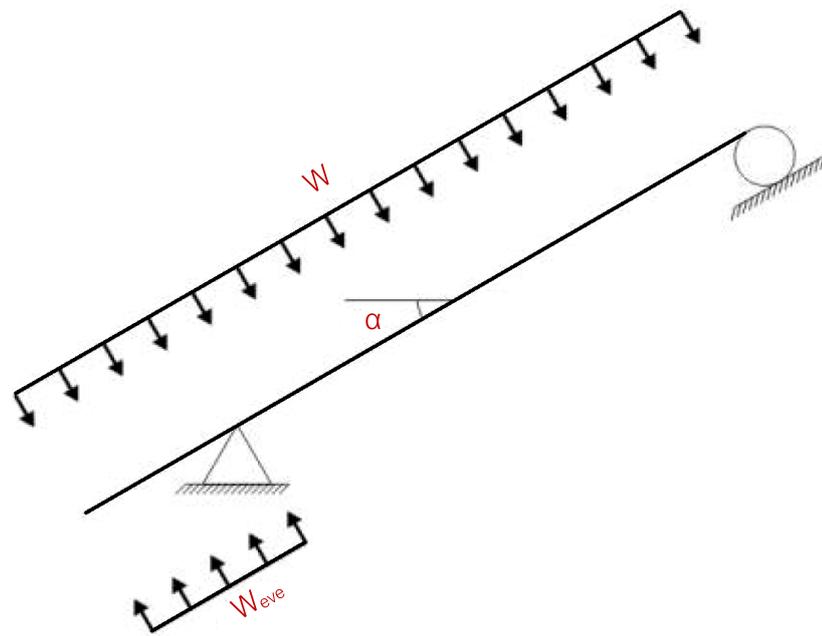


Figure 21: Downward wind loads on rafters.

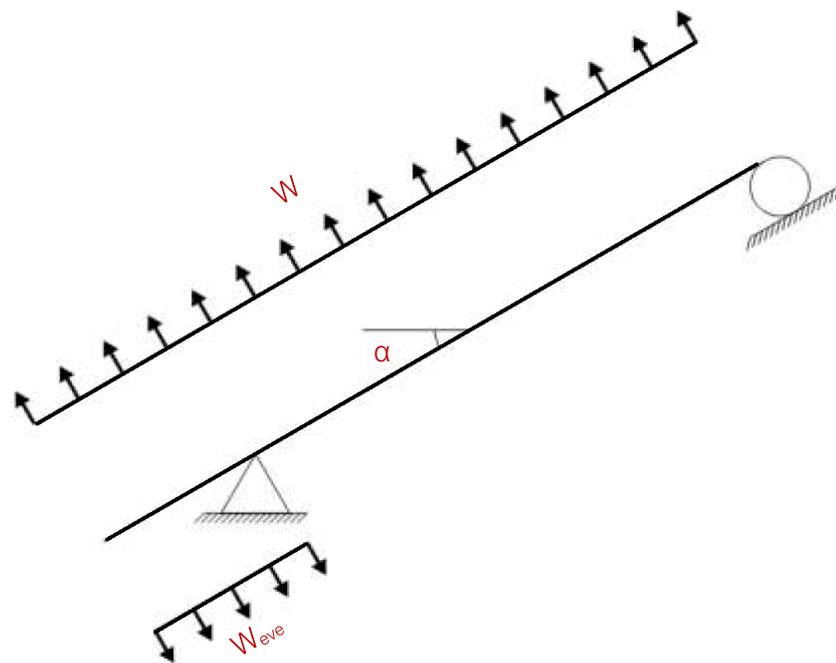


Figure 22: Upward wind loads on rafters.

On ridge beams, the applied wind loads (W) are equal to the roof loaded width (RLW in *Figure 16*) multiplied by the basic wind pressures in the table above (p_w) and the relevant pressure coefficients (C_{fig}) in the table below. To this, the effects of the applied eave wind loads (W_{eve}) are added (which occur to worst effect in both upward and downward wind cases).

All ridge beam wind loads (W and W_{eve}) are reduced by $\cos(\alpha)$ to only obtain the vertical component.

On roof and floor lintels, there are two applied wind loads; vertical loads coming from the rafters (W and W_{eve}) and horizontal loads (W_{face}) coming from wind face loading on the wall. The vertical applied wind loads (W) are equal to the roof loaded width (RLW in *Figure 16*) plus 600 mm for the eave, multiplied by the basic wind pressures in the table above (p_w) and the relevant pressure coefficients (C_{fig}) in the table below. Any eave wind loads (W_{eve}) that act in the opposite direction to the roof wind loading are ignored (to worst effect). The wind loads are reduced by $\cos(\alpha)$ to only obtain the vertical component. The horizontal applied wind loads (W_{face}) are equal to the half the wall height multiplied by the basic wind pressures in the table above (p_w) and the relevant pressure



coefficients (C_{fig}) in the table below. The wall height considered in the span tables is 2400 mm for the light configuration and 2700 mm for the heavy configuration. *Figure 16* below shows how these loads are applied. Note that C_{fig} is based on the table below, so is different for each of the applied load cases (shown in *Figure 23*).

Roof and floor lintels have joists, rafters, or trusses over them, which can provide restraint against face loading. In accordance with NZS3604:2011, if the bottom of the lintel is not more than 400 mm below the top plate of a wall, face loading can be ignored. Lintels that do not satisfy this criterion must consider face loading. Hence, alternative span tables are provided for shallow beams that could satisfy this criterion.



Figure 23: Wind loads on roof and floor lintels.

The table below summarises the pressure coefficients used in downwards and upwards wind cases. For loads that act on the roof loaded width and the eve overhang, positive pressure coefficient values act downwards, and negative values act upwards. For the loads that act on the windward wall face, positive values act horizontally towards the building.

Table 41: Wind Pressure coefficient		
Wind Zone	Downward wind case	Upward wind case
Roof loaded width	+ 0.9	- 1.3
Eve overhang	+ 0.9	- 2.0
Wind face (1.2 m)	+ 1.0	- 1.0

A worst-case downward external pressure coefficient of 0.6 has been considered combined with a downward/negative internal pressure of 0.3.



A worst-case upward external pressure coefficient of 1.3 has been considered (with no internal pressure coefficient). To account for upward wind pressure under the eave overhang, an upward pressure coefficient of 0.7 has been applied (based on the windward wall pressure coefficient).

A worst-case external wall windward pressure coefficient of 0.7 has been considered combined with a negative internal pressure coefficient of 0.3.

No local pressure factors are considered as it is assumed that beams do not directly support cladding.

Note: the load combinations considered for downward wind loading are $1.2G + \psi_c Q_u + W_u$ and $1.2G + \psi_c Q_c + W_u$. The load combination considered for upwards wind loading is $0.9G + W_u$, respectively. See Section 2.5.3.5.

2.5.3.5 Load Combinations

Rafters, ridge beams, roof lintels, and floor lintels are designed to the following load combinations in accordance with AS/NZS1170.0:2002.

For ultimate limit state (ULS) loading $1.35G$, $1.2G + 1.5Q_u$, $1.2G + 1.5Q_c$, $0.9G + W_u$, $1.2G + \psi_c Q_u + W_u$ and $1.2G + \psi_c Q_c + W_u$ combinations are applied.

For serviceability limit state (SLS) loading $k_2 \cdot (G + \psi_l Q_u)$ and $G + \psi_{s_u} Q_u$ and W_s combinations are applied.

Q_u are uniformly distributed live loads while Q_c are concentrated point live loads. W_u are ULS wind loads while W_s are SLS wind loads. Different long- and short-term coefficients for uniformly distributed live loads (ψ_l and ψ_{s_u} , respectively) are used for loads originating from roof loads and for those originating from floor loads. These are summarised in the *Table 42*. Note: that concentrated live loads are not considered for deflections and thus long- and short-term coefficients for concentrated live loads are not listed in the *Table* below (refer to *Table 42*).

**Table 42: Short term and long-term coefficients**

Location	ψ_c	ψ_u	ψ_{Su}
Roof (applies to rafters, ridge beams, roof lintels, and floor lintels for wind combinations)	0	0	0.7
Floor (applies to floor lintels/beams for gravity combinations).	0.4	0.4	0.7

Please note snow loads have not been considered.

2.5.3.6 Red Stag GLT_h Rafter Beam Span Limitations

The maximum spans of Red Stag GLT_h rafters are generally governed by long-term deflections, while some light configurations in high wind zones are governed by wind deflections.

2.5.3.7 Red Stag Vertex Rafter Beam Span Limitations

The maximum spans of Red Stag Vertex rafters are generally governed by a combination of long-term and wind deflections, while the deepest members are limited by manufacturing length constraints (16.5 m maximum length).

2.5.3.8 Red Stag GLT_h Ridge Beam Span Limitations

For Red Stag GLT_h ridge beams, the maximum spans in light configurations are generally governed by a mix of long-term and wind deflections, while in heavy configurations they are primarily governed by long-term deflections.

2.5.3.9 Red Stag Vertex Ridge Beam Span Limitations

The maximum spans of Red Stag Vertex ridge beams are generally governed by a combination of long-term and wind deflections, while the deepest members are limited by manufacturing length.



2.5.3.10 Red Stag GLT_h Roof Lintel Beam Span Limitations

For Red Stag GLT_h roof lintels, the maximum spans in light configurations are generally governed by a combination of long-term and wind deflections, while a few spans are limited by the bending strength of the beam under both upward and downward wind cases.

2.5.3.11 Red Stag Vertex Roof Lintel Beam Span Limitations

The maximum spans of Red Stag Vertex roof lintels are generally governed by wind deflections due to face loading, while some spans are controlled by long-term deflections. A few spans are limited by the bending strength of the beam under both upward and downward wind cases.

2.5.3.12 Red Stag GLT_h Floor Lintel Beam Span Limitations

For Red Stag GLT_h floor lintels, the maximum spans in light configurations are generally governed by a combination of long-term and wind deflections, while a few spans are limited by the bending strength of the beam under $1.2G + 1.5Q$.

2.5.3.13 Red Stag Vertex Floor Lintel Beam Span Limitations

For Red Stag Vertex floor lintels, the maximum spans in light configurations are generally governed by a combination of long-term and wind deflections, while a few spans are limited by the bending strength of the beam under $1.2G + 1.5Q$.

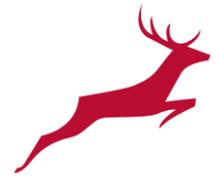
2.5.3.14 Design Exclusions

The span tables for Red Stag Vertex and GLT_h members, covering applications such as rafters, ridge beams, roof and floor lintels, do not account for the following listed conditions:

- Seismic loads.
- Fire loads (or any fire design criteria).



- Snow loads.
- Construction loads.



2.6. Red Stag Vertex & GLT_h Quality Assurance

The glue bond quality and durability of the Vertex and GLT_h layers have been assessed through delamination testing. Independent third-party test results showed an average delamination percentage below the standard allowable limit, confirming that the face glue line bonds are sufficiently durable. In the majority of third-party reports, minor or no glue line failure or board separation was observed after delamination testing, in accordance with AS/NZS 1328.1 (Glued laminated structural timber — Performance requirements and minimum production requirements).



2.7. Red Stag GLT_h Fire Testing

Red Stag produced and supplied a GLT_h¹ beam to be assessed for performance in a standard fire event. The Red Stag GLT beam was placed in a fire testing frame at the BRANZ laboratory for a 90-minute fire test.

The fire test, conducted in accordance with AS 1530.4:2014 (Methods for fire tests on building materials, components and structures, Part 4: Fire-resistance tests for elements of construction), confirmed the FRL of -/60/60 for the Red Stag GLT beam. The test was terminated after 90 minutes, although no failure was observed.

The Red Stag GLT test was conducted under an extreme fire exposure condition to five surfaces (the exposed cross-section, side surfaces, and the top and bottom surfaces). Refer to *Figure 24*.



Figure 24: Red Stag GLT_h Fire Testing; (a) Red Stag GLT_h test specimen before the fire test; (b) Red Stag GLT_h specimen at 60 minutes into the fire test.

¹ Red Stag Vertex and GLT_h are manufactured using the same equipment, adhesive, and process. The only difference is the orientation of the manufactured member (each type is 90 degrees out of phase with the other). Each are typically produced with between three to 10 layers.



A1 Red Stag Vertex and GLT_h Rafter Beam

The Red Stag Vertex and GLT_h span tables consider a maximum overhang of 600 mm to account for the eaves. Roof pitches (α) are taken as 25° (critical for 0°–25°) and 45° (critical for 25°–45°). The location of the Red Stag Vertex and GLT_h rafter beam and its free-body diagram is presented in *Figure 25*. The Red Stag Vertex and GLT_h rafter beam spans are presented in *Table 43.1* to *Table 44.8*.

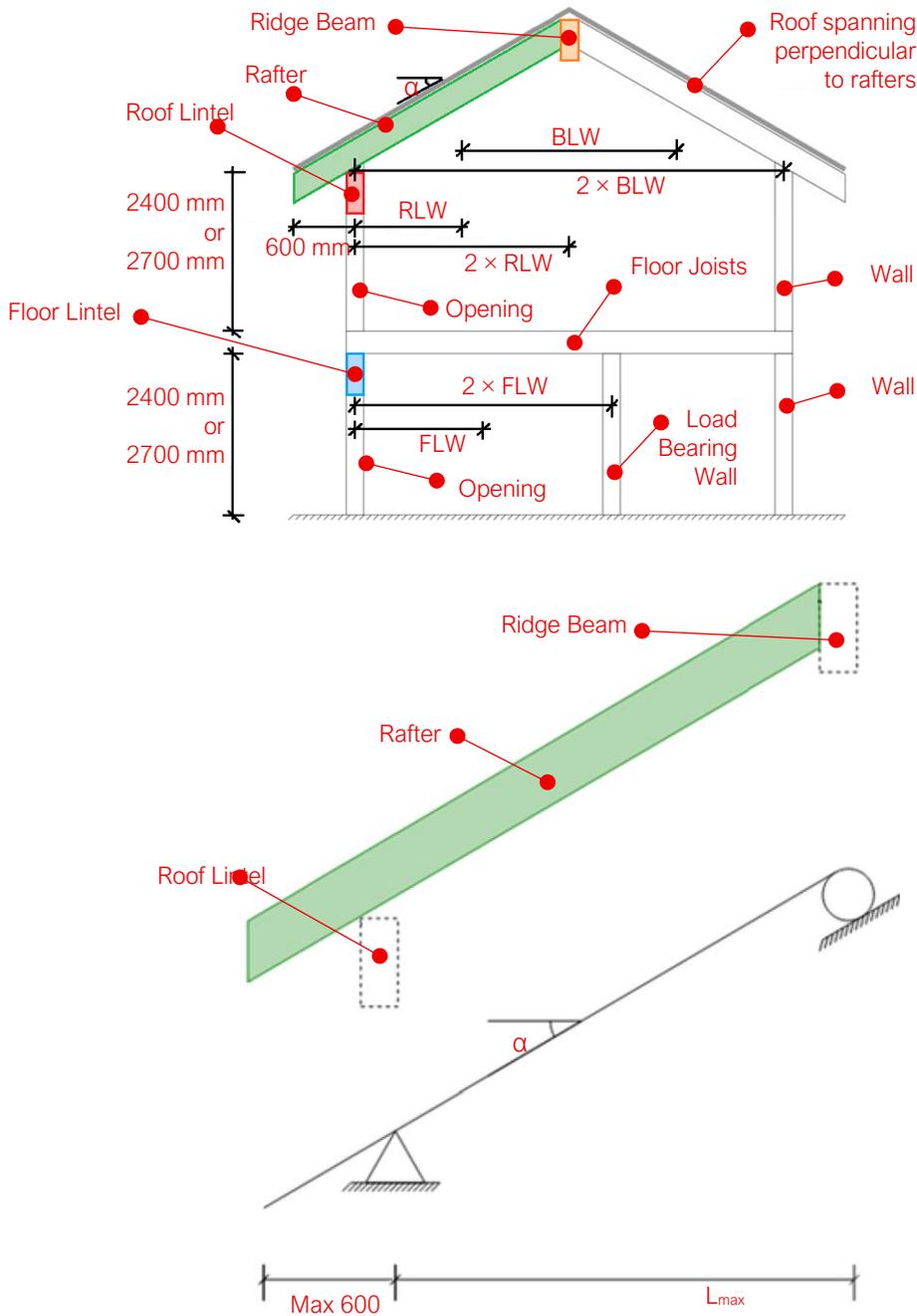


Figure 25: Red Stag Vertex and GLT_h rafter beam free diagram.

Table 43.1: Red Stag GLT_h8 Rafter Beam Span Table ^a

GLT _h Rafters						Light Configuration						GL8						0°–25°												
Beam Size	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	3870	3510	3150	2900	2360	2010	3870	3510	3150	2900	2360	2010	3870	3510	3150	2900	2350	1980	3840	3430	3000	2720	2160	1820	3660	3220	2810	2550	2030	1710
168×88	4990	4560	4120	3820	3120	2660	4990	4560	4120	3820	3120	2660	4990	4560	4120	3820	3120	2650	4770	4310	3890	3620	2880	2430	4550	4110	3710	3410	2700	2280
210×88	6060	5570	5070	4710	3870	3310	6060	5570	5070	4710	3870	3310	6010	5430	4910	4570	3840	5090	4600	4280	3600	3040	2580	2130	4860	4390	4080	3380	2850	
252×88	7070	6540	5980	5570	4610	3960	7070	6540	5980	5570	4610	3960	6890	6230	5630	5240	4400	3870	6460	5840	5280	4910	4130	3630	6160	5570	5030	4680	3940	3420
294×88	8040	7480	6870	6420	5340	4600	8040	7480	6870	6410	5340	4600	7740	6990	6320	5880	4940	4350	7260	6560	5930	5510	4640	4080	6920	6250	5650	5260	4420	3890
336×88	8970	8390	7730	7250	6060	5230	8970	8390	7710	7090	5960	5230	8970	8390	7730	7130	6500	5460	8020	7250	6550	6090	5120	4510	7650	6910	6240	5810	4890	4300
378×88	9870	9260	8580	8060	6770	5860	9870	9210	8320	7740	6510	5730	9340	8440	7630	7100	5970	5250	8760	7920	7160	6660	5600	4930	8360	7550	6820	6350	5340	4700
420×88	10740	10120	9400	8850	7470	6480	10740	9960	9000	8380	7040	6200	10110	9140	8260	7680	6460	5680	9490	8570	7740	7210	6060	5330	9040	8170	7380	6870	5780	5080
126×126	4180	3830	3470	3210	2630	2250	4180	3830	3470	3210	2630	2250	4180	3830	3470	3210	2630	2240	4180	3800	3380	3070	2430	2050	4010	3620	3170	2880	2280	1930
168×126	5350	4940	4510	4200	3470	2980	5350	4940	4510	4200	3470	2980	5350	4940	4510	4200	3470	2980	5220	4710	4260	3960	3250	2740	4970	4490	4060	3780	3050	2570
210×126	6440	6000	5520	5160	4290	3700	6440	6000	5520	5160	4290	3700	6440	5940	5370	4990	4200	3700	6170	5570	5040	4690	3940	3420	5880	5310	4800	4470	3760	3210
252×126	7480	7010	6480	6080	5100	4410	7480	7010	6480	6080	5100	4410	7480	6810	6160	5730	4820	4240	7070	6390	5770	5370	4520	3970	6740	6090	5500	5120	4310	3790
294×126	8470	7980	7410	6980	5890	5110	8470	7980	7410	6980	5890	5110	8460	7650	6910	6430	5410	4760	7940	7170	6480	6030	5070	4460	7570	6840	6180	5750	4830	4250
336×126	9410	8910	8310	7850	6670	5810	9410	8910	8310	7850	6670	5810	9410	8600	7850	7310	6260	5560	8780	7930	7170	6670	5610	4930	8370	7560	6830	6360	5340	4700
378×126	10320	9800	9190	8700	7440	6490	10320	9800	9100	8470	7120	6270	10220	9240	8340	7760	6530	5750	9590	8660	7830	7280	6120	5390	9140	8260	7460	6940	5840	5140
420×126	11200	10670	10040	9530	8190	7170	11200	10670	9850	9160	7710	6780	11060	9990	9030	8400	7070	6220	10380	9380	8470	7880	6630	5830	9690	8940	8080	7520	6320	5560

a. All dimension units are in millimeters.

Table 43.2: Red Stag GLT_h8 Rafter Beam Span Table ^a

GLT _h Rafters						Light Configuration						GL8						25°–45°												
Beam Size	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	3560	3230	2900	2670	2170	1850	3560	3230	2900	2670	2170	1850	3560	3170	2770	2510	1990	1680	3330	2910	2540	2310	1830	1540	3120	2730	2380	2160	1720	1450
168×88	4600	4200	3800	3510	2870	2450	4600	4200	3800	3510	2870	2450	4490	4060	3660	3350	2660	2240	4210	3800	3390	3080	2440	2060	4020	3630	3180	2890	2290	1930
210×88	5570	5130	4660	4330	3560	3050	5570	5130	4660	4330	3560	3050	5310	4800	4360	4030	3260	2800	4980	4500	4060	3780	3050	2570	4750	4290	3880	3610	2860	2410
252×88	6510	6020	5510	5130	4240	3640	6510	6000	5420	5040	4240	3640	6090	5500	4970	4620	3890	3360	5710	5160	4680	4340	3650	3090	5440	4920	4440	4140	3440	2900
294×88	7400	6890	6320	5910	4920	4230	7400	6730	6080	5660	4760	4190	6830	6170	5580	5190	4360	3840	6410	5790	5230	4870	4090	3600	6110	5520	4990	4640	3900	3380
336×88	8260	7720	7120	6670	5580	4820	8240	7440	6730	6260	5260	4630	7550	6830	6170	5740	4820	4250	7090	6400	5780	5380	4530	3980	6760	6100	5520	5130	4310	3800
378×88	9090	8530	7890	7350	6180	5390	9000	8130	7350	6840	5750	5060	8250	7460	6740	6270	5270	4640	7740	6990	6320	5880	4940	4350	7380	6670	6030	5610	4710	4150
420×88	9890	9310	8550	7960	6690	5890	9740	8800	7950	7400	6220	5890	8930	8070	7290	6780	5700	5020	8380	7570	6840	6360	5390	4710	7990	7220	6520	6070	5100	4490
126×126	3850	3520	3190	2960	2420	2070	3850	3520	3190	2960	2420	2070	3850	3520	3120	2830	2250	1890	3710	3280	2860	2600	2060	1740	3520	3070	2690	2440	1940	1630
168×126	4920	4550	4150	3870	3190	2740	4920	4550	4150	3870	3190	2740	4910	4440	4010	3730	3000	2530	4610	4160	3760	3470	2750	2320	4390	3970	3580	3250	2580	2180
210×126	5930	5520	5080	4750	3950	3400	5930	5520	5080	4750	3950	3400	5810	5250	4740	4410	3710	3160	5450	4920	4450	4140	3440	2900	5190	4690	4240	3950	3230	2720
252×126	6890	6450	5970	5600	4700	4080	6890	6450	5930	5520	4640	4060	6660	6020	5440	5080	4250	3740	6250	5640	5100	4740	3990	3480	5960	5380	4880	4520	3800	3270
294×126	7800	7340	6820	6420	5420	4710	7800	7340	6660	6190	5210	4580	7480	6750	6100	5680	4770	4200	7010	6340	5720	5330	4480	3940	6690	6040	5460	5080	4270	3760
336×126	8670	8200	7650	7230	6140	5350	8670	8140	7360	6850	5760	5070	8260	7470	6750	6280	5280	4640	7750	7000	6330	5890	4950	4360	7390	6680	6030	5610	4720	4150
378×126	9500	9030	8460	8010	6760	5950	9500	8900	8040	7480	6290	5530	9030	8160	7370	6860	5770	5070	8470	7650	6910	6430	5410	4760	8070	7300	6590	6130	5160	4540
420×126	10310	9830	9240	8700	7320	6440	10310	9630	8700	8090	6810	5990	9770	8830	7980	7420	6240	5490	9160	8280	7480	6960	5850	5150	8740	7900	7130	6640	5580	4910

a. All dimension units are in millimeters.

Table 43.3: Red Stag GLT_h10 Rafter Beam Span Table ^a

GLT _h Rafters						Light Configuration						GL10						0°–25°												
Beam Size	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	4170	3780	3390	3130	2540	2160	4170	3780	3390	3130	2540	2160	4170	3780	3390	3130	2530	2140	4060	3670	3230	2930	2330	1960	3870	3470	3030	2750	2180	1840
168×88	5380	4920	4440	4110	3360	2870	5380	4920	4440	4110	3360	2870	5380	4860	4390	4080	3360	2850	5040	4560	4120	3830	3100	2620	4810	4340	3920	3650	2910	2460
210×88	6520	6000	5460	5070	4170	3570	6520	6000	5460	5070	4170	3570	6360	5740	5190	4830	4060	3560	5960	5390	4870	4530	3810	3270	5680	5140	4640	4320	3630	3070
252×88	7610	7050	6440	6000	4970	4270	7610	7050	6440	6000	4970	4270	7290	6580	5950	5540	4650	4100	6840	6180	5580	5190	4370	3840	6520	5890	5320	4950	4160	3660
294×88	8660	8060	7400	6910	5750	4950	8660	8060	7280	6910	5750	4950	8180	7390	6680	6220	52													

Table 43.4: Red Stag GLT_h10 Rafter Beam Span Table ^a

GLT _h Rafters					Light Configuration								GL10								25°–45°									
Beam Size	Wind Zone																													
	Low				Medium				High				Very High				Extra High													
	Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)													
400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
126×88	3840	3480	3120	2880	2340	1990	3840	3480	3120	2880	2340	1990	3830	3410	2980	2710	2150	1810	3590	3130	2740	2480	1970	1660	3360	2940	2570	2330	1850	1560
168×88	4950	4520	4090	3780	3090	2640	4950	4520	4090	3780	3090	2640	4750	4290	3880	3610	2860	2410	4450	4020	3640	3310	2630	2220	4250	3840	3420	3110	2470	2080
210×88	6000	5530	5020	4670	3840	3290	6000	5530	5000	4650	3840	3290	5610	5070	4580	4260	3580	3020	5270	4760	4300	4000	3290	2770	5020	4540	4100	3810	3090	2600
252×88	7010	6490	5930	5530	4570	3930	7010	6340	5730	5330	4480	3930	6440	5820	5250	4890	4110	3620	6040	5460	4930	4590	3860	3330	5760	5200	4700	4370	3680	3120
294×88	7970	7420	6810	6370	5300	4560	7880	7120	6430	5990	5030	4430	7230	6530	5900	5490	4620	4060	6780	6120	5530	5150	4330	3810	6460	5840	5280	4910	4130	3630
336×88	8900	8320	7650	7120	5980	5190	8710	7870	7110	6620	5560	4900	7990	7220	6520	6070	5100	4490	7490	6770	6120	5690	4790	4210	7140	6450	5830	5430	4560	4020
378×88	9790	9190	8350	7770	6540	5750	9520	8600	7770	7230	6080	5350	8730	7880	7120	6630	5570	4900	8190	7400	6680	6220	5230	4600	7800	7050	6370	5930	4980	4390
420×88	10650	10010	9040	8410	7070	6230	10300	9310	8410	7820	6580	5790	9440	8530	7710	7170	6030	5310	8860	8000	7230	6730	5660	4980	8450	7630	6900	6420	5390	4750
126×126	4150	3800	3440	3180	2610	2230	4150	3800	3440	3180	2610	2230	4150	3780	3360	3050	2420	2040	3930	3530	3080	2800	2220	1870	3740	3310	2890	2630	2090	1760
168×126	5300	4900	4480	4170	3440	2950	5300	4900	4480	4170	3440	2950	5190	4690	4240	3950	3230	2720	4870	4400	3980	3700	2960	2500	4640	4200	3790	3510	2780	2350
210×126	6390	5950	5470	5110	4260	3670	6390	5950	5470	5090	4260	3670	6140	5550	5010	4660	3920	3400	5760	5200	4700	4380	3680	3130	5490	4960	4480	4170	3480	2930
252×126	7420	6950	6430	6030	5060	4370	7420	6940	6270	5830	4900	4320	7040	6360	5750	5350	4500	3960	6600	5970	5390	5020	4220	3710	6300	5690	5140	4780	4020	3520
294×126	8400	7910	7350	6920	5840	5070	8400	7790	7040	6550	5510	4850	7900	7140	6450	6010	5050	4440	7420	6700	6050	5630	4740	4170	7070	6390	5770	5370	4520	3970
336×126	9340	8830	8240	7780	6550	5760	9340	8830	8240	7780	7240	6090	8610	7860	7130	6640	5580	4910	8200	7410	6690	6230	5240	4610	7820	7060	6380	5940	4990	4390
378×126	10240	9720	9110	8500	7150	6290	10240	9410	8500	7910	6650	5850	9550	8620	7790	7250	6100	5370	8950	8090	7310	6800	5720	5030	8540	7710	6970	6490	5450	4800
420×126	11110	10590	9890	9200	7740	6810	11110	10180	9200	8560	7200	6330	10330	9330	8430	7850	6600	5810	9690	8760	7910	7360	6190	5450	9240	8350	7540	7020	5900	5190

a. All dimension units are in millimeters.

Table 43.5: Red Stag GLT_h12 Rafter Beam Span Table ^a

GLT _h Rafters					Light Configuration								GL12								0°–25°									
Beam Size	Wind Zone																													
	Low				Medium				High				Very High				Extra High													
	Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)													
400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
126×88	4370	3960	3550	3280	2660	2260	4370	3960	3550	3280	2660	2260	4370	3960	3550	3280	2660	2240	4210	3800	3380	3070	2440	2060	4010	3620	3170	2880	2290	1930
168×88	5640	5150	4650	4310	3520	3010	5640	5150	4650	4310	3520	3010	5570	5030	4540	4230	2990	5220	4720	4260	3970	3250	2740	4980	4500	4060	3780	3050	2570	
210×88	6830	6290	5720	5310	4370	3740	6830	6290	5720	5310	4370	3740	6580	5950	5370	5000	4200	3700	6170	5580	5040	4690	3940	3430	5890	5320	4810	4470	3760	3220
252×88	7980	7390	6750	6290	5200	4470	7980	7390	6720	6250	5200	4470	7550	6820	6160	5730	4820	4240	7080	6400	5780	5380	4520	3980	6750	6100	5510	5130	4310	3790
294×88	9070	8440	7750	7240	6030	5190	9070	8350	7540	7020	5900	5190	8470	7660	6920	6440	5410	4760	7950	7180	6490	6040	5080	4470	7580	6850	6190	5760	4840	4260
336×88	10120	9460	8730	8180	6840	5910	10120	9230	8340	7760	6520	5740	9370	8460	7650	7120	5980	5260	8790	7940	7170	6670	5610	4940	8380	7570	6840	6360	5350	4710
378×88	11140	10450	9680	9090	7640	6610	11140	10080	9110	8480	7130	6270	10230	9240	8350	7770	6540	5750	9600	8670	7840	7290	6130	5390	9150	8270	7470	6950	5840	5140
420×88	12120	11420	10600	9960	8290	7300	12080	10910	9860	9170	7710	6790	11070	10000	9040	8410	7070	6220	10390	9380	8480	7890	6630	5840	9900	8950	8080	7520	6330	5570
126×126	4720	4320	3910	3620	2970	2540	4720	4320	3910	3620	2970	2540	4720	4320	3910	3620	2970	2520	4600	4160	3760	3460	2750	2320	4390	3960	3580	3250	2580	2170
168×126	6040	5580	5090	4740	3920	3360	6040	5580	5090	4740	3920	3360	6040	5500	4970	4630	3890	3360	5710	5160	4660	4340	3650	3090	5450	4920	4450	4140	3440	2900
210×126	7270	6770	6230	5820	4850	4170	7270	6770	6230	5820	4850	4170	7200	6510	5880	5470	4600	4050	6750	6100	5510	5130	4310	3800	6440	5820	5260	4890	4110	3620
252×126	8440	7910	7310	6860	5760	4980	8440	7910	7310	6840	5750	4980	8260	7460	6740	6270	5270	4640	7740	7000	6320	5880	4950	4350	7380	6670	6030	5610	4720	4150
294×126	9560	9000	8370	7880	6650	5770	9560	9000	8250	7680	6460	5680	9270	8370	7570	7040	5920	5210	8690	7860	7100	6600	5550	4890	8290	7490	6770	6300	5290	4660
336×126	10630	10050	9380	8860	7530	6560	10630	10050	9120	8490	7140	6280	10250	9260	8360	7780	6540	5760	9610	8680	7850	7300	6140	5400	9160	8280	7480	6960	5850	5150
378×126	11650	11070	10370	9820	8380	7330	11650	11030	9960	9270	7800	6860	11190	10110	9140	8500	7150	6290	10500	9490	8570	7980	6710	5900	10010	9040	8170	7600	6390	5630
420×126	12640	12050	11330	10760	9070	7990	12640	11940	10780	10040	8440	7430	12110	10940	9890	9200	7740	6810	11360	10270	9280	8630	7260	6390	10830	9790	8840	8230	6920	6090

a. All dimension units are in millimeters.

Table 43.6: Red Stag GLT_h12 Rafter Beam Span Table ^a

GLT _h Rafters					Light Configuration								GL12								25°–45°									
Beam Size	Wind Zone																													
	Low				Medium				High				Very High				Extra High													
	Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)													
400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
126×88	4020	3650	3270	3020	2450	2080	4020	3650	3270	3020	2450	2080	3960	3570	3120	2840	2250	1900	3720	3280	2870	2600	2070	1740	3530	3080	2690	2440	1940	1630
168×88	5190	4740	4280	3960	3240	2770	5190	4740	4280	3960	3240	2770	4920	4440	4010	3730	3000	2530	4610	4170	3760	3470	2760	2320	4400	3970	3590	3260	2590	2180
210×88	6290	5790	5260	4890	4020	3440	6290	5730	5180	4820	4020	3440	5810	5250	4750	4420	3710	3160	5450	4930	4450	4140	3450	2910	5200	4700	4240	3950	3230	2730
252×88	7340	6800	6210	5790	4790	4110	7270	6570	5930	5520	4640	4090	6670	6020	5440	5060	4260	3750	6250	5650	5100	4750	3990	3490	5960	5390	4870	4530	3810	3270
294×88	8350	7770	7140	6670	5550	478																								

Table 43.7: Red Stag GLT_h8 Rafter Beam Span Table ^a

GLT _h Rafters						Heavy Configuration						GL8						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	3120	2770	2460	2250	1800	1520	3120	2770	2460	2250	1800	1520	3120	2770	2460	2250	1800	1520	3120	2770	2460	2250	1800	1520	3120	2770	2460	2250	1800	1520
168×88	4080	3650	3250	2980	2390	2030	4080	3650	3250	2980	2390	2030	4080	3650	3250	2980	2390	2030	4080	3650	3250	2980	2390	2030	4080	3650	3250	2980	2390	2030
210×88	5020	4510	4020	3700	2980	2530	5020	4510	4020	3700	2980	2530	5020	4510	4020	3700	2980	2530	5020	4510	4020	3700	2980	2530	5020	4510	4020	3700	2980	2530
252×88	5930	5350	4790	4410	3570	3030	5930	5350	4790	4410	3570	3030	5930	5350	4790	4410	3570	3030	5930	5350	4790	4410	3570	3030	5930	5350	4790	4410	3570	3030
294×88	6810	6180	5540	5110	4150	3530	6810	6180	5540	5110	4150	3530	6810	6180	5540	5110	4150	3530	6810	6180	5540	5110	4150	3530	6810	6180	5540	5110	4150	3530
336×88	7670	6980	6290	5800	4730	4030	7670	6980	6290	5800	4730	4030	7670	6980	6290	5800	4730	4030	7670	6980	6290	5800	4730	4030	7670	6980	6290	5800	4730	4030
378×88	8510	7770	7020	6490	5300	4520	8510	7770	7020	6490	5300	4520	8510	7770	7020	6490	5300	4520	8510	7770	7020	6490	5300	4520	8510	7770	7020	6490	5300	4520
420×88	9330	8550	7740	7170	5870	5020	9330	8550	7740	7170	5870	5020	9330	8550	7740	7170	5870	5020	9330	8550	7740	7170	5870	5020	9330	8550	7740	7170	5870	5020
126×126	3430	3080	2740	2510	2020	1710	3430	3080	2740	2510	2020	1710	3430	3080	2740	2510	2020	1710	3430	3080	2740	2510	2020	1710	3430	3080	2740	2510	2020	1710
168×126	4470	4030	3610	3320	2680	2280	4470	4030	3610	3320	2680	2280	4470	4030	3610	3320	2680	2280	4470	4030	3610	3320	2680	2280	4470	4030	3610	3320	2680	2280
210×126	5470	4960	4460	4110	3340	2840	5470	4960	4460	4110	3340	2840	5470	4960	4460	4110	3340	2840	5470	4960	4460	4110	3340	2840	5470	4960	4460	4110	3340	2840
252×126	6430	5860	5290	4890	3990	3400	6430	5860	5290	4890	3990	3400	6430	5860	5290	4890	3990	3400	6430	5860	5290	4890	3990	3400	6430	5860	5290	4890	3990	3400
294×126	7360	6740	6100	5650	4630	3960	7360	6740	6100	5650	4630	3960	7360	6740	6100	5650	4630	3960	7360	6740	6100	5650	4630	3960	7360	6740	6100	5650	4630	3960
336×126	8260	7590	6900	6410	5270	4510	8260	7590	6900	6410	5270	4510	8260	7590	6900	6410	5270	4510	8260	7590	6900	6410	5270	4510	8260	7590	6900	6410	5270	4510
378×126	9130	8430	7680	7150	5900	5060	9130	8430	7680	7150	5900	5060	9130	8430	7680	7150	5900	5060	9130	8430	7680	7150	5900	5060	9130	8430	7680	7150	5900	5060
420×126	9980	9240	8450	7880	6530	5610	9980	9240	8450	7880	6530	5610	9980	9240	8450	7880	6530	5610	9980	9240	8450	7880	6530	5610	9980	9240	8450	7880	6530	5610

a. All dimension units are in millimeters.

Table 43.8: Red Stag GLT_h8 Rafter Beam Span Table ^a

GLT _h Rafters						Heavy Configuration						GL8						25°–45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	2870	2550	2260	2070	1660	1400	2870	2550	2260	2070	1660	1400	2870	2550	2260	2070	1660	1400	2870	2550	2260	2070	1660	1400	2870	2550	2260	2070	1660	1400
168×88	3760	3360	2990	2740	2200	1870	3760	3360	2990	2740	2200	1870	3760	3360	2990	2740	2200	1870	3760	3360	2990	2740	2200	1870	3760	3360	2990	2740	2200	1870
210×88	4620	4150	3700	3400	2750	2330	4620	4150	3700	3400	2750	2330	4620	4150	3700	3400	2750	2330	4620	4150	3700	3400	2750	2330	4620	4150	3700	3400	2750	2330
252×88	5460	4930	4410	4060	3280	2790	5460	4930	4410	4060	3280	2790	5460	4930	4410	4060	3280	2790	5460	4930	4410	4060	3280	2790	5460	4930	4410	4060	3280	2790
294×88	6270	5680	5100	4700	3820	3250	6270	5680	5100	4700	3820	3250	6270	5680	5100	4700	3820	3250	6270	5680	5100	4700	3820	3250	6270	5680	5100	4700	3820	3250
336×88	7060	6430	5790	5340	4350	3710	7060	6430	5790	5340	4350	3710	7060	6430	5790	5340	4350	3710	7060	6430	5790	5340	4350	3710	7060	6430	5790	5340	4350	3710
378×88	7840	7150	6460	5970	4880	4160	7840	7150	6460	5970	4880	4160	7840	7150	6460	5970	4880	4160	7840	7150	6460	5970	4880	4160	7840	7150	6460	5970	4880	4160
420×88	8590	7870	7120	6600	5400	4620	8590	7870	7120	6600	5400	4620	8590	7870	7120	6600	5400	4620	8590	7870	7120	6600	5400	4620	8590	7870	7120	6600	5400	4620
126×126	3160	2830	2520	2310	1860	1580	3160	2830	2520	2310	1860	1580	3160	2830	2520	2310	1860	1580	3160	2830	2520	2310	1860	1580	3160	2830	2520	2310	1860	1580
168×126	4120	3710	3320	3050	2470	2100	4120	3710	3320	3050	2470	2100	4120	3710	3320	3050	2470	2100	4120	3710	3320	3050	2470	2100	4120	3710	3320	3050	2470	2100
210×126	5040	4570	4100	3780	3070	2620	5040	4570	4100	3780	3070	2620	5040	4570	4100	3780	3070	2620	5040	4570	4100	3780	3070	2620	5040	4570	4100	3780	3070	2620
252×126	5920	5400	4870	4500	3670	3130	5920	5400	4870	4500	3670	3130	5920	5400	4870	4500	3670	3130	5920	5400	4870	4500	3670	3130	5920	5400	4870	4500	3670	3130
294×126	6770	6200	5620	5200	4260	3640	6770	6200	5620	5200	4260	3640	6770	6200	5620	5200	4260	3640	6770	6200	5620	5200	4260	3640	6770	6200	5620	5200	4260	3640
336×126	7600	6990	6350	5900	4850	4150	7600	6990	6350	5900	4850	4150	7600	6990	6350	5900	4850	4150	7600	6990	6350	5900	4850	4150	7600	6990	6350	5900	4850	4150
378×126	8400	7760	7070	6580	5430	4660	8400	7760	7070	6580	5430	4660	8400	7760	7070	6580	5430	4660	8400	7760	7070	6580	5430	4660	8400	7760	7070	6580	5430	4660
420×126	9180	8510	7780	7250	6010	5160	9180	8510	7780	7250	6010	5160	9180	8510	7780	7250	6010	5160	9180	8510	7780	7250	6010	5160	9180	8510	7780	7250	6010	5160

a. All dimension units are in millimeters.

Table 43.9: Red Stag GLT_h10 Rafter Beam Span Table ^a

GLT _h Rafters						Heavy Configuration						GL10						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	3360	2990	2650	2420	1940	1640	3360	2990	2650	2420	1940	1640	3360	2990	2650	2420	1940	1640	3360	2990	2650	2420	1940	1640	3360	2990	2650	2420	1940	1640
168×88	4400	3940	3500	3210	2580	2190	4400	3940	3500	3210	2580	2190	4400	3940	3500	3210	2580	2190	4400	3940	3500	3210	2580	2190	4400	3940	3500	3210	2580	2190
210×88	5410	4860	4340	3980	3210	2730	5410	4860	4340	3980	3210	2730	5410	4860	4340	3980	3210	2730	5410	4860	4340	3980	3210	2730	5410	4860	4340	3980	3210	2730
252×88	6390	5770	5160	4750	3840	3270	6390	5770	5160	4750	3840	3270	6390	5770	5160	4750	3840	3270	6390	5770	5160	4750	3840	3270	6390	5770	5160	4750	3840	3270
294×88	7340	6650	5970	5500	4470	3810	7340	6650	5970																					

Table 43.10: Red Stag GL_Th10 Rafter Beam Span Table ^a

GL _T h Rafters						Heavy Configuration						GL10						25°–45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	3090	2750	2440	2230	1790	1510	3090	2750	2440	2230	1790	1510	3090	2750	2440	2230	1790	1510	3090	2750	2440	2230	1790	1510	3090	2750	2440	2230	1790	1510
168×88	4050	3620	3220	2950	2370	2010	4050	3620	3220	2950	2370	2010	4050	3620	3220	2950	2370	2010	4050	3620	3220	2950	2370	2010	4050	3620	3220	2950	2370	2010
210×88	4980	4480	3990	3670	2960	2510	4980	4480	3990	3670	2960	2510	4980	4480	3990	3670	2960	2510	4980	4480	3990	3670	2960	2510	4980	4480	3990	3670	2960	2510
252×88	5880	5310	4750	4370	3540	3010	5880	5310	4750	4370	3540	3010	5880	5310	4750	4370	3540	3010	5880	5310	4750	4370	3540	3010	5880	5310	4750	4370	3540	3010
294×88	6760	6120	5500	5070	4110	3500	6760	6120	5500	5070	4110	3500	6760	6120	5500	5070	4110	3500	6760	6120	5500	5070	4110	3500	6760	6120	5500	5070	4110	3500
336×88	7610	6920	6230	5760	4690	4000	7610	6920	6230	5760	4690	4000	7610	6920	6230	5760	4690	4000	7610	6920	6230	5760	4690	4000	7610	6920	6230	5760	4690	4000
378×88	8440	7710	6960	6440	5260	4490	8440	7710	6960	6440	5260	4490	8440	7710	6960	6440	5260	4490	8440	7710	6960	6440	5260	4490	8440	7710	6960	6440	5260	4490
420×88	9250	8480	7670	7110	5820	4980	9250	8480	7670	7110	5820	4980	9250	8480	7670	7110	5820	4980	9250	8480	7670	7110	5820	4980	9250	8480	7670	7110	5820	4980
126×126	3410	3050	2710	2490	2000	1700	3410	3050	2710	2490	2000	1700	3410	3050	2710	2490	2000	1700	3410	3050	2710	2490	2000	1700	3410	3050	2710	2490	2000	1700
168×126	4440	4000	3580	3290	2660	2260	4440	4000	3580	3290	2660	2260	4440	4000	3580	3290	2660	2260	4440	4000	3580	3290	2660	2260	4440	4000	3580	3290	2660	2260
210×126	5420	4920	4420	4070	3310	2820	5420	4920	4420	4070	3310	2820	5420	4920	4420	4070	3310	2820	5420	4920	4420	4070	3310	2820	5420	4920	4420	4070	3310	2820
252×126	6380	5810	5240	4850	3950	3370	6380	5810	5240	4850	3950	3370	6380	5810	5240	4850	3950	3370	6380	5810	5240	4850	3950	3370	6380	5810	5240	4850	3950	3370
294×126	7300	6680	6050	5610	4590	3920	7300	6680	6050	5610	4590	3920	7300	6680	6050	5610	4590	3920	7300	6680	6050	5610	4590	3920	7300	6680	6050	5610	4590	3920
336×126	8190	7530	6840	6350	5220	4470	8190	7530	6840	6350	5220	4470	8190	7530	6840	6350	5220	4470	8190	7530	6840	6350	5220	4470	8190	7530	6840	6350	5220	4470
378×126	9050	8360	7620	7090	5850	5020	9050	8360	7620	7090	5850	5020	9050	8360	7620	7090	5850	5020	9050	8360	7620	7090	5850	5020	9050	8360	7620	7090	5850	5020
420×126	9890	9170	8380	7810	6470	5560	9890	9170	8380	7810	6470	5560	9890	9170	8380	7810	6470	5560	9890	9170	8380	7810	6470	5560	9890	9170	8380	7810	6470	5560

a. All dimension units are in millimeters.

Table 43.11: Red Stag GL_Th12 Rafter Beam Span Table ^a

GL _T h Rafters						Heavy Configuration						GL12						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	3520	3130	2770	2540	2030	1720	3520	3130	2770	2540	2030	1720	3520	3130	2770	2540	2030	1720	3520	3130	2770	2540	2030	1720	3520	3130	2770	2540	2030	1720
168×88	4610	4120	3660	3360	2700	2290	4610	4120	3660	3360	2700	2290	4610	4120	3660	3360	2700	2290	4610	4120	3660	3360	2700	2290	4610	4120	3660	3360	2700	2290
210×88	5670	5090	4540	4170	3370	2860	5670	5090	4540	4170	3370	2860	5670	5090	4540	4170	3370	2860	5670	5090	4540	4170	3370	2860	5670	5090	4540	4170	3370	2860
252×88	6690	6040	5410	4970	4030	3420	6690	6040	5410	4970	4030	3420	6690	6040	5410	4970	4030	3420	6690	6040	5410	4970	4030	3420	6690	6040	5410	4970	4030	3420
294×88	7690	6970	6260	5770	4680	3990	7690	6970	6260	5770	4680	3990	7690	6970	6260	5770	4680	3990	7690	6970	6260	5770	4680	3990	7690	6970	6260	5770	4680	3990
336×88	8660	7880	7090	6550	5340	4550	8660	7880	7090	6550	5340	4550	8660	7880	7090	6550	5340	4550	8660	7880	7090	6550	5340	4550	8660	7880	7090	6550	5340	4550
378×88	9610	8770	7920	7320	5980	5110	9610	8770	7920	7320	5980	5110	9610	8770	7920	7320	5980	5110	9610	8770	7920	7320	5980	5110	9610	8770	7920	7320	5980	5110
420×88	10530	9650	8730	8090	6630	5660	10530	9650	8730	8090	6630	5660	10530	9650	8730	8090	6630	5660	10530	9650	8730	8090	6630	5660	10530	9650	8730	8090	6630	5660
126×126	3880	3470	3090	2830	2280	1930	3880	3470	3090	2830	2280	1930	3880	3470	3090	2830	2280	1930	3880	3470	3090	2830	2280	1930	3880	3470	3090	2830	2280	1930
168×126	5050	4550	4070	3740	3030	2570	5050	4550	4070	3740	3030	2570	5050	4550	4070	3740	3030	2570	5050	4550	4070	3740	3030	2570	5050	4550	4070	3740	3030	2570
210×126	6170	5600	5030	4640	3770	3210	6170	5600	5030	4640	3770	3210	6170	5600	5030	4640	3770	3210	6170	5600	5030	4640	3770	3210	6170	5600	5030	4640	3770	3210
252×126	7260	6620	5970	5520	4500	3840	7260	6620	5970	5520	4500	3840	7260	6620	5970	5520	4500	3840	7260	6620	5970	5520	4500	3840	7260	6620	5970	5520	4500	3840
294×126	8310	7610	6890	6380	5230	4470	8310	7610	6890	6380	5230	4470	8310	7610	6890	6380	5230	4470	8310	7610	6890	6380	5230	4470	8310	7610	6890	6380	5230	4470
336×126	9320	8570	7790	7230	5950	5090	9320	8570	7790	7230	5950	5090	9320	8570	7790	7230	5950	5090	9320	8570	7790	7230	5950	5090	9320	8570	7790	7230	5950	5090
378×126	10300	9510	8670	8070	6660	5710	10300	9510	8670	8070	6660	5710	10300	9510	8670	8070	6660	5710	10300	9510	8670	8070	6660	5710	10300	9510	8670	8070	6660	5710
420×126	11260	10430	9540	8890	7360	6330	11260	10430	9540	8890	7360	6330	11260	10430	9540	8890	7360	6330	11260	10430	9540	8890	7360	6330	11260	10430	9540	8890	7360	6330

a. All dimension units are in millimeters.

Table 43.12: Red Stag GL_Th12 Rafter Beam Span Table ^a

GL _T h Rafters						Heavy Configuration						GL12						25°–45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
126×88	3240	2880	2550	2330	1870	1580	3240	2880	2550	2330	1870	1580	3240	2880	2550	2330	1870	1580	3240	2880	2550	2330	1870	1580	3240	2880	2550	2330	1870	1580
168×88	4240	3800	3370	3090	2490	2110	4240	3800	3370	3090	2490	2110	4240	3800	3370	3090	2490	2110	4240	3800	3370	3090	2490	2110	4240	3800	3370	3090	2490	2110
210×88	5220	4690	4180	3840	3100	2630	5220	4690	4180	3840	3100	2630	5220	4690	4180	3840	3100	2630	5220	4690	4180	3840	3100	2630	5220	4690	4180	3840	3100	2630
252×88	6160	5560	4980	4580	3710	3150	6160	5560	4980	4580	3710	3150	6160	5560	4980	4580	3710	3150	6160	5560	4980	4580	3710	3150	6160	5560	4980	4580	3710	3150
294×88	7080	6420	5760	5310	4310	3670	7080</																							

Table 44.1: Red Stag Vertix₁₀ Rafter Beam Span Table ^a

Vertex Rafters						Light Configuration						Vertex ₁₀						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
88×88	2930	2630	2340	2150	1740	1470	2930	2630	2340	2150	1740	1470	2930	2630	2340	2150	1720	1450	2870	2510	2190	1990	1580	1330	2700	2350	2060	1870	1480	1250
140×88	4450	4050	3640	3360	2740	2330	4450	4050	3640	3360	2740	2330	4450	4050	3640	3360	2740	2310	4310	3890	3490	3170	2510	2120	4110	3710	3270	2970	2360	1990
190×88	5820	5340	4840	4490	3680	3150	5820	5340	4840	4490	3680	3150	5820	5340	4840	4390	3680	3140	5420	4890	4420	4110	3410	2880	5160	4670	4220	3920	3200	2700
240×88	7110	6570	6000	5580	4610	3960	7110	6570	6000	5580	4610	3960	6880	6220	5620	5230	4390	3870	6450	5830	5270	4900	4120	3630	6150	5560	5020	4670	3930	3410
290×88	8330	7740	7110	6640	5520	4750	8330	7740	7110	6640	5520	4750	7930	7170	6470	6020	5070	4460	7440	6720	6070	5650	4750	4180	7090	6410	5790	5390	4530	3990
300×88	8560	7970	7330	6850	5700	4910	8560	7970	7330	6850	5700	4910	8130	7350	6640	6180	5200	4570	7630	6890	6230	5800	4870	4290	7280	6570	5940	5530	4650	4090
315×88	8910	8310	7650	7160	5970	5150	8910	8310	7650	7160	5970	5150	8440	7620	6890	6410	5390	4740	7920	7150	6460	6010	5060	4450	7550	6820	6160	5730	4820	4240
350×88	9720	9090	8400	7880	6600	5700	9720	9090	8400	7880	6600	5700	9130	8250	7460	6940	5830	5130	8570	7740	6990	6510	5470	4820	8170	7380	6670	6210	5220	4590
360×88	9940	9310	8610	8080	6780	5860	9940	9310	8610	8080	6780	5860	9330	8430	7620	7090	5960	5240	8750	7910	7140	6650	5590	4920	8340	7540	6810	6340	5330	4690
400×88	10820	10180	9440	8880	7480	6480	10820	10180	9440	8880	7480	6480	10100	9120	8240	7670	6450	5670	9470	8560	7730	7190	6050	5320	9030	8160	7370	6860	5770	5080
405×88	10930	10280	9540	8980	7570	6560	10930	10280	9540	8980	7570	6560	10300	9310	8430	7860	6640	5860	9560	8640	7800	7260	6110	5370	9110	8230	7440	6920	5820	5120
450×88	11890	11220	10450	9830	8260	7250	11890	11220	10450	9830	8260	7250	11030	9960	9000	8380	7040	6200	10340	9350	8450	7860	6610	5820	9860	8910	8050	7490	6300	5540
495×88	12820	12140	11340	10550	8870	7810	12820	12140	11340	10550	8870	7810	11850	10700	9670	9000	7570	6660	11110	10040	9070	8440	7100	6250	10590	9570	8650	8050	6770	5960
500×88	12920	12240	11430	10630	8940	7870	12920	12240	11430	10630	8940	7870	11940	10780	9740	9070	7620	6710	11200	10120	9140	8510	7150	6290	10670	9650	8710	8110	6820	6000
540×88	13720	13030	12110	11270	9470	8340	13720	13030	12110	11270	9470	8340	12640	11430	10320	9610	8080	7110	11860	10720	9680	9010	7580	6670	11310	10220	9230	8590	7220	6360
550×88	13920	13220	12270	11420	9600	8450	13920	13220	12270	11420	9600	8450	12820	11580	10470	9740	8190	7210	12030	10870	9820	9140	7680	6760	11470	10360	9360	8710	7320	6450
595×88	14790	14090	13020	12120	10190	8970	14790	14090	13020	12120	10190	8970	13600	12290	11100	10330	8690	7650	12760	11530	10410	9690	8150	7170	12160	10990	9930	9240	7770	6840
600×88	14890	14180	13100	12190	10250	9020	14890	14180	13100	12190	10250	9020	13740	12430	11240	10470	8830	7790	12900	11670	10550	9830	8290	7310	12240	11060	9990	9300	7820	6880
126×126	4380	4010	3630	3360	2760	2350	4380	4010	3630	3360	2760	2350	4380	4010	3630	3360	2760	2340	4350	3930	3540	3220	2550	2150	4150	3750	3320	3020	2390	2020
250×126	7790	7300	6740	6330	5300	4590	7790	7300	6740	6330	5300	4590	7760	7010	6340	5900	4960	4360	7280	6580	5940	5530	4650	4090	6940	6270	5670	5270	4430	3900
300×126	9020	8500	7900	7440	6290	5460	9020	8500	7900	7440	6290	5460	8900	8040	7270	6760	5680	5000	8350	7540	6820	6340	5330	4690	7960	7190	6500	6050	5080	4470
350×126	10190	9650	9020	8530	7260	6330	10190	9650	8890	8280	7690	6120	10190	9590	8890	8160	7590	6380	8930	8070	7360	6870	5860	5270	8940	8070	7290	6790	5710	5020
400×126	11300	10750	10100	9570	8210	7180	11300	10750	9830	9150	8560	6770	11040	9980	9020	8390	7050	6210	10360	9360	8460	7870	6620	5820	9880	8920	8060	7500	6310	5550
450×126	12380	11820	11140	10590	9040	7950	12380	11820	10740	10000	8400	7400	12060	10900	9850	9170	7710	6780	11320	10230	9240	8600	7230	6360	10790	9750	8810	8200	6890	6070
500×126	13410	12850	12150	11580	9780	8610	13410	12850	11620	10820	9100	8000	13060	11800	10660	9920	8340	7340	12250	11070	10000	9300	7820	6890	11680	10550	9530	8870	7460	6560
550×126	14410	13840	13130	12490	10510	9250	14410	13820	12490	11620	9770	8600	14020	12670	11450	10650	8960	7880	13160	11890	10740	9990	8400	7400	12540	11330	10240	9530	8010	7050
600×126	15390	14810	14090	13340	11210	9870	15390	14750	13330	12400	10430	9180	14970	13530	12220	11370	9560	8420	14040	12690	11460	10670	8970	7890	13390	12100	10930	10170	8550	7530
650×126	16330	15760	15030	14160	11910	10480	16330	15660	14150	13170	11070	9750	15900	14360	12980	12080	10160	8940	14910	13470	12170	11330	9530	8380	14220	12850	11610	10800	9080	7990
700×126	16500	16500	15940	14970	12590	11080	16500	16500	14960	13920	11710	10300	16500	15180	13720	12770	10740	9450	15760	14240	12870	11980	10070	8860	15030	13580	12270	11420	9600	8450
750×126	16500	16500	16500	15770	13260	11670	16500	16500	15760	14660	12330	10850	16500	15990	14450	13450	11310	9950	16500	15000	13550	12610	10610	9330	15830	14300	12920	12030	10110	8900
800×126	16500	16500	16500	16500	13920	12250	16500	16500	16500	15390	12940	11390	16500	16500	15170	14110	11870	10440	16500	15750	14230	13240	11130	9800	16500	15010	13560	12620	10610	9340
850×126	16500	16500	16500	16500	14560	12820	16500	16500	16500	16110	13540	11920	16500	16500	15870	14770	12420	10930	16500	16480	14890	13860	11650	10250	16500	15710	14200	13210	11110	9780
900×126	16500	16500	16500	16500	15200	13380	16500	16500	16500	16500	14140	12440	16500	16500	16500	15420	12960	11410	16500	16500	15540	14460	12160	10700	16500	16400	14820	13790	11590	10200
950×126	16500	16500	16500	16500	15830	13930	16500	16500	16500	16500	14720	12960	16500	16500	16500	16060	13500	11880	16500	16500	16180	15060	12660	11150	16500	16500	15430	14360	12070	10630
1000×126	16500	16500	16500	16500	16450	14480	16500	16500	16500	16500	15300	13470	16500	16500	16500	16500	14030	12350	16500	16500	16500	15650	13160	11580	16500	16500	16040	14920	12550	11040
210×210	7240	6860	6410	6060	5160	4500	7240	6860	6410	6060	5160	4500	72																	

Table 44.2: Red Stag Vertix₁₀ Rafter Beam Span Table ^a

Vertex Rafters					Light Configuration								Vertex ₁₀								25°-45°														
Beam Size	Wind Zone																																		
	Low							Medium							High							Very High							Extra High						
	Roof loaded width (mm)							Roof loaded width (mm)							Roof loaded width (mm)							Roof loaded width (mm)							Roof loaded width (mm)						
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000					
88x88	2690	2420	2160	1980	1600	1360	2690	2420	2160	1980	1600	1360	2650	2320	2020	1840	1460	1230	2430	2130	1860	1690	1340	1130	2280	1990	1740	1580	1250	1060					
140x88	4100	3730	3350	3100	2520	2150	4100	3730	3350	3100	2520	2150	4050	3660	3220	2920	2320	1960	3800	3380	2960	2690	2130	1800	3630	3180	2770	2520	2000	1690					
190x88	5360	4920	4460	4130	3390	2900	5360	4920	4460	4130	3390	2900	5100	4610	4160	3870	3150	2660	4780	4320	3900	3630	2890	2440	4560	4120	3720	3420	2710	2290					
240x88	6540	6050	5520	5140	4240	3640	6540	5990	5410	5030	4230	3640	6080	5490	4960	4620	3880	3360	5700	5150	4650	4330	3640	3080	5430	4910	4440	4130	3430	2890					
290x88	7660	7130	6540	6110	5080	4380	7660	7040	6400	5800	4880	4290	7000	6330	5720	5320	4470	3940	6570	5940	5360	4990	4200	3690	6260	5660	5110	4760	4000	3500					
300x88	7880	7340	6750	6310	5250	4520	7880	7240	6600	5950	5000	4400	7180	6490	5870	5460	4590	4040	6740	6090	5500	5120	4300	3790	6430	5810	5250	4880	4100	3610					
315x88	8210	7650	7040	6590	5500	4740	8130	7540	6840	6170	5190	4570	7450	6730	6080	5660	4760	4190	6990	6320	5710	5310	4470	3930	6670	6020	5440	5060	4260	3750					
350x88	8940	8370	7720	7190	6040	5250	8800	8150	7450	6680	5620	4940	8070	7290	6590	6130	5150	4530	7570	6840	6180	5750	4830	4250	7210	6520	5890	5480	4610	4050					
360x88	9150	8570	7890	7340	6170	5390	8980	8320	7620	6830	5740	5050	8240	7440	6730	6260	5260	4630	7730	6980	6310	5870	4940	4340	7370	6660	6020	5600	4710	4140					
400x88	9960	9370	8640	7940	6680	5880	9720	8970	8190	7390	6210	5470	8920	8060	7280	6770	5700	5010	8360	7560	6830	6350	5340	4700	7970	7210	6510	6060	5090	4480					
405x88	10060	9470	8620	8020	6740	5930	9810	9010	8200	7460	6270	5520	9000	8130	7350	6840	5750	5060	8440	7630	6890	6410	5390	4750	8050	7270	6570	6110	5140	4520					
450x88	10940	10320	9330	8680	7300	6420	10620	9800	8970	8070	6790	5970	9740	8800	7950	7400	6220	5480	9140	8260	7460	6940	5840	5140	8710	7870	7110	6620	5560	4900					
495x88	11800	11090	10020	9320	7840	6900	11410	10310	9320	8670	7290	6410	10460	9450	8540	7950	6680	5880	9810	8870	8010	7460	6270	5520	9360	8450	7640	7110	5980	5260					
500x88	11890	11170	10090	9390	7900	6950	11500	10390	9390	8730	7340	6460	10540	9520	8610	8010	6730	5930	9890	8930	8070	7510	6320	5560	9430	8520	7700	7160	6020	5300					
540x88	12630	11830	10690	9950	8370	7360	12180	11000	9940	9250	7780	6850	11170	10090	9120	8480	7130	6280	10480	9470	8550	7960	6690	5890	9990	9030	8150	7590	6380	5610					
550x88	12810	12000	10840	10090	8480	7460	12350	11160	10080	9380	7890	6940	11320	10230	9240	8600	7230	6370	10620	9600	8670	8070	6780	5970	10130	9150	8270	7690	6470	5690					
595x88	13620	12730	11550	10700	9000	7920	13100	11840	10690	9950	8370	7360	12010	10850	9810	9130	7670	6750	11270	10180	9200	8560	7200	6330	10740	9710	8770	8160	6860	6040					
600x88	13700	12810	11570	10770	9050	7970	13180	11910	10760	10010	8420	7410	12090	10920	9870	9180	7720	6790	11340	10240	9260	8610	7240	6370	10810	9770	8830	8210	6910	6080					
126x126	4030	3690	3340	3100	2540	2170	4030	3690	3340	3100	2540	2170	4030	3690	3370	2970	2350	1980	3840	3430	3200	2720	2160	1820	3670	3220	2810	2560	2030	1710					
250x126	7170	6720	6210	5820	4880	4220	7170	6720	6100	5680	4770	4200	6850	6190	5600	5210	4380	3850	6430	5810	5250	4880	4110	3610	6130	5540	5000	4660	3920	3400					
300x126	8300	7820	7270	6850	5790	5030	8300	7740	7000	6510	5480	4820	7860	7100	6420	5970	5020	4420	7370	6660	6020	5600	4710	4140	7030	6350	5740	5340	4490	3950					
350x126	9380	8880	8300	7850	6610	5820	9380	8690	7860	7310	6150	5410	8820	7970	7200	6700	5640	4960	8280	7480	6760	6290	5290	4650	7890	7130	6440	6000	5040	4440					
400x126	10410	9900	9290	8690	7310	6430	10410	9610	8680	8080	6790	5980	9750	8810	7960	7410	6230	5480	9150	8270	7470	6950	5840	5140	8720	7880	7120	6630	5570	4900					
450x126	11390	10880	10200	9490	7980	7020	11390	10500	9490	8830	7420	6530	10660	9630	8700	8100	6810	5990	10000	9030	8160	7590	6380	5620	9530	8610	7780	7240	6090	5360					
500x126	12350	11830	11040	10270	8640	7600	12350	11360	10270	9550	8030	7070	11530	10420	9410	8760	7370	6480	10820	9770	8830	8220	6910	6080	10310	9320	8420	7840	6590	5800					
550x126	13270	12740	11860	11040	9280	8170	13270	12210	11030	10260	8630	7590	12390	11190	10110	9410	7910	6960	11620	10500	9490	8830	7420	6530	11080	10010	9040	8420	7080	6230					
600x126	14160	13640	12660	11780	9910	8720	14160	13030	11770	10960	9210	8110	13220	11950	10800	10050	8450	7430	12400	11210	10130	9420	7920	6970	11830	10890	9850	8980	7550	6650					
650x126	15030	14500	13440	12510	10520	9260	15030	13840	12500	11630	9780	8610	14040	12690	11460	10670	8970	7890	13170	11900	10750	10010	8410	7400	12560	11350	10250	9540	8020	7060					
700x126	15880	15350	14210	13220	11120	9790	15880	14630	13220	12300	10340	9100	14840	13410	12120	11280	9480	8340	13920	12580	11370	10580	8890	7830	13280	12000	10840	10090	8480	7460					
750x126	16500	16180	14970	13930	11710	10310	16500	15400	13920	12950	10890	9580	15630	14120	12760	11880	9990	8790	14660	13250	11970	11140	9370	8240	13980	12630	11410	10620	8930	7860					
800x126	16500	16500	15710	14620	12290	10820	16500	16170	14610	13590	11430	10060	16410	14830	13400	12470	10480	9220	15390	13910	12570	11690	9830	8650	14670	13260	11980	11150	9370	8250					
850x126	16500	16500	16440	15300	12860	11320	16500	16500	15290	14230	11960	10530	16500	15520	14020	13050	10970	9650	16110	14550	13150	12240	10290	9060	15360	13880	12540	11670	9810	8630					
900x126	16500	16500	16500	15970	13430	11820	16500	16500	15960	14850	12490	10990	16500	16200	14630	13620	11450	10080	16500	15190	13730	12770	10740	9450	16030	14480	13090	12180	10240	9010					
950x126	16500	16500	16500	16500	13980	12310	16500	16500	16500	15470	13000	11440	16500	16500	15240	14180	11920	10490	16500	15820	14300	13300	11190	9840	16500	15080	13630	12680	10660	9390					
1000x126	16500	16500	16500	16500	14530	12790	16500	16500	16500	16070	13510	11890	16500	16500	15840	14740	12390	10910	16500	16440	14860	13820	11620	10230	16500	15680	14160	13180	11080	9750					
210x210	6670	6320	5900	5580	4750	4140	6670	6320	5900	5580	4750	4140	6670	6170	5580	5190	4360	3840	6410	5790	5230	4870	4090	3600	6110	5520	4990	4640	3900	3380					
400x210	10900	10520	10040	9640	8300	7310	10900	10520	9870	9180	7720	6790	10900	10010	9050	8420	7080	6230	10400	9390	8490	7900	6640	5840	9910	8960	8090	7530	6330	5570					
450x210	11880	11510	11020	10610	9070	7980	11880	11510	10780	10030	8430	7420	11880	10940	9880	9200	7730	6810	11360	10260	9270	8630	7250	6380	10830	9780	8840	8230	6920	6090					
500x210	12840	12460	11970	11550	9820	8640	12840	12460	11670	10860	9130	8030	12840	11840	10700	9960	8370	7370	12290	11110	10040	9340	7850	6910	11720	10590	9570	8900	7490	6590					
550x210	13760	13380	12890	12470	10540	9280	13760	13380	12530	11660	9810	8630	13760	12750	11490	10690	8990	7910	13200	11930	1														

Table 44.3: Red Stag Vertix₂₀ Rafter Beam Span Table ^a

Vertex Rafters						Light Configuration						Vertex ₂₀						0°–25°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
88x88	3170	2850	2540	2330	1880	1600	3170	2850	2540	2330	1880	1600	3170	2850	2540	2330	1860	1570	3110	2720	2370	2160	1710	1440	2920	2550	2230	2020	1610	1350	
140x88	4830	4390	3950	3640	2970	2530	4830	4390	3950	3640	2970	2530	4830	4390	3950	3640	2970	2500	4570	4130	3730	3430	2720	2300	4360	3940	3550	3220	2560	2160	
190x88	6310	5790	5250	4860	3990	3410	6310	5790	5250	4860	3990	3410	6310	5790	5540	5010	4660	3920	3400	5750	5200	4700	4370	3670	3120	5480	4950	4480	4170	3470	2930
240x88	7700	7120	6500	6050	4990	4290	7700	7120	6500	6050	4990	4290	7310	6600	5970	5550	4670	4110	6850	6190	5600	5210	4380	3850	6540	5900	5330	4960	4170	3670	
290x88	9020	8390	7700	7200	5980	5150	9020	8390	7700	7200	5980	5150	8420	7610	6880	6400	5380	4730	7900	7140	6450	6000	5050	4440	7530	6810	6150	5720	4810	4230	
300x88	9280	8640	7940	7420	6180	5320	9280	8640	7940	7420	6180	5320	8620	7810	7050	6560	5520	4860	8100	7320	6620	6160	5180	4550	7730	6980	6310	5870	4940	4340	
315x88	9680	9010	8290	7760	6470	5580	9680	9010	8290	7760	6470	5580	8960	8100	7320	6810	5720	5040	8410	7600	6880	6390	5370	4720	8010	7240	6540	6090	5120	4500	
350x88	10530	9850	9100	8530	7150	6180	10530	9850	9100	8530	7150	6180	9700	8760	7920	7370	6200	5450	9100	8220	7430	6910	5810	5110	8670	7840	7080	6590	5540	4880	
360x88	10770	10090	9330	8750	7340	6350	10770	9760	8820	8210	6900	6070	9910	8950	8090	7530	6330	5570	9290	8400	7590	7060	5940	5220	8860	8000	7230	6730	5660	4980	
400x88	11730	11030	10230	9650	8030	7020	11690	10660	9650	8880	7470	6570	10720	9690	8750	8140	6850	6030	10060	9090	8210	7640	6420	5650	9590	8660	7830	7280	6120	5390	
405x88	11840	11140	10340	9740	8110	7110	11800	10660	9630	8970	7540	6630	10820	9780	8830	8220	6910	6080	10150	9170	8290	7710	6480	5710	9680	8740	7900	7350	6180	5440	
450x88	12880	12180	11210	10430	8770	7720	12770	11540	10430	9700	8160	7180	11710	10580	9560	8900	7480	6580	10990	9930	8970	8350	7020	6180	10470	9460	8550	7960	6690	5890	
495x88	13890	13150	12040	11210	9420	8290	13720	12400	11200	10420	8760	7710	12580	11370	10270	9560	8040	7070	11800	10660	9630	8970	7540	6630	11250	10170	9190	8550	7190	6320	
500x88	14000	13260	12130	11290	9490	8360	13820	12490	11280	10500	8830	7770	12670	11450	10350	9630	8100	7130	11890	10740	9710	9030	7590	6680	11340	10240	9250	8610	7240	6370	
540x88	14860	14110	12860	11960	10060	8850	14640	13230	11960	11130	9350	8230	13430	12130	10960	10200	8580	7550	12600	11380	10280	9570	8050	7080	12010	10850	9810	9120	7670	6750	
550x88	15080	14330	13030	12130	10200	8980	14850	13420	12120	11280	9480	8350	13610	12300	11120	10340	8700	7650	12770	11540	10430	9700	8160	7180	12180	11000	9940	9250	7780	6850	
595x88	16020	15260	13830	12870	10820	9520	15750	14230	12860	11970	10060	8850	14440	13050	11790	10970	9230	8120	13550	12240	11060	10290	8650	7620	12920	11670	10550	9810	8250	7260	
600x88	16130	15370	13910	12950	10890	9580	15850	14320	12940	12040	10120	8910	14530	13130	11860	11040	9280	8170	13630	12320	11130	10360	8710	7660	13000	11740	10610	9880	8300	7310	
126x126	4750	4350	3940	3650	2990	2550	4750	4350	3940	3650	2990	2550	4750	4350	3940	3650	2990	2540	4620	4180	3770	3480	2760	2330	4410	3980	3600	3270	2590	2190	
250x126	8440	7900	7310	6850	5750	4970	8440	7900	7310	6830	5740	4970	8240	7450	6730	6260	5260	4630	7730	6990	6310	5870	4940	4350	7370	6660	6020	5600	4710	4140	
300x126	9770	9210	8560	8070	6820	5920	9770	9210	8410	7830	6580	5790	9450	8540	7720	7180	6040	5310	8870	8010	7240	6730	5660	4980	8450	7640	6900	6420	5400	4750	
350x126	11040	10450	9770	9240	7860	6850	11040	10450	9450	8790	7390	6500	10610	9590	8660	8060	6780	5960	10610	9590	8630	8130	7560	6360	5590	9490	8670	7750	7210	6060	5330
400x126	12250	11650	10940	10370	8790	7730	12250	11650	10440	9720	8170	7190	11730	10600	9570	8910	7490	6590	11000	9940	8980	8360	7030	6180	10490	9480	8560	7970	6700	5900	
450x126	13410	12800	12070	11410	9600	8450	13410	12800	12620	11410	10610	8920	12810	11580	10460	9730	8180	7200	12020	10860	9810	9130	7680	6760	11460	10350	9350	8710	7320	6440	
500x126	14530	13920	13160	12350	10390	9140	14530	13660	12340	11490	9660	8500	13870	12530	11320	10530	8860	7790	13010	11750	10620	9880	8310	7310	12400	11200	10120	9420	7920	6970	
550x126	15620	15000	14230	13270	11160	9820	15620	14680	13260	12340	10380	9130	14890	13460	12160	11310	9510	8370	13970	12620	11410	10610	8920	7850	13320	12040	10870	10120	8510	7490	
600x126	16500	16050	15220	14160	11910	10480	16500	15660	14150	13170	11080	9750	15900	14360	12980	12080	10160	8940	14910	13470	12180	11330	9530	8380	14220	12850	11610	10800	9080	7990	
650x126	16500	16500	16160	15040	12850	11130	16500	16500	15030	13990	11760	10350	16500	15250	13780	12830	10780	9490	15840	14310	12930	12030	10120	8900	15100	13640	12330	11470	9650	8490	
700x126	16500	16500	16500	15900	13370	11770	16500	16500	15890	14790	12430	10940	16500	16130	14570	13560	11400	10030	16500	15130	13670	12720	10690	9410	15960	14420	13030	12130	10200	8970	
750x126	16500	16500	16500	16500	14080	12390	16500	16500	16500	15570	13090	11520	16500	16500	15340	14280	12010	10570	16500	15930	14390	13400	11260	9910	16500	15190	13720	12770	10740	9450	
800x126	16500	16500	16500	16500	14780	13010	16500	16500	16500	16340	13740	12100	16500	16500	16110	14990	12600	11090	16500	16500	15110	14060	11820	10400	16500	15940	14410	13410	11270	9920	
850x126	16500	16500	16500	16500	15470	13610	16500	16500	16500	16500	14380	12660	16500	16500	16500	15690	13190	11610	16500	16500	15810	14710	12370	10890	16500	16500	15080	14030	11800	10380	
900x126	16500	16500	16500	16500	16140	14210	16500	16500	16500	16500	15010	13210	16500	16500	16500	16370	13770	12120	16500	16500	16500	15360	12910	11370	16500	16500	15740	14640	12310	10840	
950x126	16500	16500	16500	16500	16500	14800	16500	16500	16500	16500	15630	13760	16500	16500	16500	16500	14340	12620	16500	16500	16500	15990	13450	11840	16500	16500	16390	15250	12820	11280	
1000x126	16500	16500	16500	16500	16500	15380	16500	16500	16500	16500	16250	14300	16500	16500	16500	16500	14900	13110	16500	16500	16500	15980	13980	12300	16500	16500	16500	15850	13330	11730	
210x210	7850	7440	6950	6570	5590	4870	7850	7440	6950	6570	5590	4870	7850	7420	6710	6240	5290	4620	7710	6960	6290	5860	4920	4330	7350	6640	6000	5580	4690	4130	
400x210	12820	12380	11820	11340	9980	8790	12820	12380	11820	11040	9280	8170	12820	12040	10880	10120	8510	7490	12500	11290	10210	9500	7990	7030	11920	10770	9730	9050	7610	6700	
450x210	13990	13550	12970	12490	10910	9600	13990	13550	12960	12060	10140	8920	13990	13150	11880	11060	9300	8180	13660	12340	11150	10370	8720	7680	13020	11760	10630	9890	8320	7320	
500x210	15110	14670	14090	13600	11800	10390	15110	14670	14030	13050	10980	9660	15110	14240	12860	11970	10060	8860	14780	13350	12070	11230	9440	8310	14090	12730	11500	10710	9000	7920	
550x210																															

Table 44.4: Red Stag Vertix₂₀ Rafter Beam Span Table ^a

Vertix Rafters						Light Configuration						Vertix ₂₀						25°-45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000
88x88	2920	2620	2340	2150	1730	1470	2920	2620	2340	2150	1730	1470	2870	2510	2190	1990	1580	1330	2640	2300	2010	1830	1450	1220	2470	2160	1890	1710	1360	1150
140x88	4440	4040	3630	3350	2730	2330	4440	4040	3630	3350	2730	2330	4310	3890	3490	3170	2510	2120	4040	3650	3200	2910	2310	1950	3850	3440	3010	2730	2170	1830
190x88	5810	5330	4830	4480	3670	3140	5810	5330	4820	4480	3670	3140	5420	4890	4420	4110	3410	2880	5080	4590	4150	3860	3130	2640	4840	4380	3950	3680	2940	2480
240x88	7090	6550	5980	5570	4600	3950	7040	6360	5750	5350	4500	3950	6450	5830	5270	4900	4120	3630	6050	5470	4940	4600	3870	3340	5770	5210	4710	4380	3690	3130
290x88	8300	7720	7090	6620	5510	4740	8110	7330	6620	6160	5180	4560	7440	6720	6070	5650	4750	4180	6980	6300	5700	5300	4460	3920	6650	6070	5430	5050	4250	3740
300x88	8540	7950	7310	6800	5690	4900	8320	7520	6790	6320	5320	4680	8320	7620	6920	6500	5480	4820	7160	6470	5840	5440	4570	4020	6820	6170	5570	5180	4360	3840
315x88	8890	8290	7580	7050	5930	5140	8630	7800	7050	6560	5510	4850	7910	7150	6460	6010	5060	4450	7420	6710	6060	5640	4740	4170	7080	6400	5780	5380	4520	3980
350x88	9690	9070	8200	7630	6420	5650	9340	8440	7630	7100	5970	5250	8570	7740	6990	6510	5470	4810	8040	7260	6560	6100	5130	4520	7660	6920	6250	5820	4890	4310
360x88	9910	9270	8380	7790	6550	5770	9540	8620	7790	7250	6090	5360	8750	7910	7140	6650	5590	4920	8210	7420	6700	6230	5240	4610	7820	7070	6390	5940	5000	4400
400x88	10790	10030	9070	8440	7090	6240	10330	9330	8430	7850	6600	5800	9470	8560	7730	7190	6050	5320	8880	8030	7250	6750	5670	4990	8470	7650	6910	6430	5410	4760
405x88	10900	10130	9150	8520	7160	6300	10420	9420	8510	7920	6660	5860	9560	8640	7800	7260	6100	5370	8970	8100	7320	6810	5730	5040	8550	7720	6980	6490	5460	4800
450x88	11860	10960	9900	9220	7750	6820	11280	10190	9210	8570	7210	6340	10340	9350	8440	7860	6610	5810	9700	8770	7920	7370	6200	5450	9250	8360	7550	7030	5910	5200
495x88	12780	11770	10640	9900	8320	7320	12120	10950	9890	9210	7740	6810	11110	10040	9070	8440	7100	6250	10420	9420	8510	7920	6660	5860	9940	8980	8110	7550	6350	5590
500x88	12880	11860	10720	9970	8390	7380	12210	11030	9970	9280	7800	6860	11190	10120	9140	8510	7150	6290	10500	9490	8570	7980	6710	5900	10010	9050	8170	7610	6400	5630
540x88	13880	12750	11360	10570	8880	7820	12930	11690	10560	9830	8260	7270	11860	10720	9680	9010	7580	6670	11130	10050	9080	8450	7110	6250	10610	9580	8660	8060	6780	5960
550x88	13880	12740	11310	10510	9010	7930	13110	11850	10710	9960	8380	7370	12020	10870	9820	9140	7680	6760	11280	10190	9210	8570	7210	6340	10750	9720	8780	8170	6870	6050
595x88	14750	13520	12210	11360	9560	8410	13910	12570	11360	10570	8890	7820	12760	11530	10410	9690	8150	7170	11970	10810	9770	9090	7640	6730	11410	10310	9310	8670	7290	6410
600x88	14850	13600	12290	11440	9620	8460	14000	12650	11430	10640	8940	7870	12840	11600	10480	9750	8200	7220	12040	10880	9830	9150	7690	6770	11480	10370	9370	8720	7330	6450
126x126	4370	4000	3620	3360	2750	2350	4370	4000	3620	3360	2750	2350	4350	3930	3540	3210	2550	2150	4080	3690	3250	2950	2340	1970	3890	3490	3050	2770	2200	1850
250x126	7770	7280	6720	6310	5290	4570	7770	7170	6480	6030	5070	4460	7280	6580	5940	5530	4650	4090	6830	6170	5570	5190	4360	3840	6510	5880	5310	4950	4160	3660
300x126	8990	8480	7880	7420	6250	5450	8990	8220	7430	6920	5810	5120	8350	7540	6810	6340	5330	4690	7830	7070	6390	5950	5000	4400	7470	6750	6090	5670	4770	4200
350x126	10160	9620	8970	8350	7020	6180	10160	9230	8340	7760	6530	5740	10160	9370	8470	7850	7120	5990	8790	7940	7180	6680	5610	4940	8380	7570	6840	6370	5350	4710
400x126	11270	10730	9820	9230	7760	6830	11270	10210	9220	8580	7220	6350	10360	9360	8460	7870	6620	5820	9720	8780	7930	7380	6210	5460	9260	8370	7560	7040	5920	5210
450x126	12340	11790	10830	10080	8480	7460	12340	11150	10070	9380	7880	6940	11320	10220	9240	8600	7230	6360	10610	9590	8670	8060	6780	5970	10120	9140	8260	7690	6460	5690
500x126	13380	12810	11720	10910	9170	8070	13380	12070	10900	10150	8530	7510	12250	11070	10000	9300	7820	6880	11490	10380	9380	8730	7340	6460	10950	9900	8940	8320	7000	6160
550x126	14380	13810	12590	11720	9850	8670	14350	12960	11710	10900	9160	8060	13150	11890	10740	9990	8400	7390	12340	11150	10070	9370	7880	6940	11760	10630	9610	8940	7520	6610
600x126	15350	14770	13440	12510	10520	9260	15310	13840	12500	11630	9780	8610	14040	12890	11460	10670	9070	7890	13170	11900	10750	10010	8410	7400	12560	11350	10250	9540	8020	7060
650x126	16290	15720	14280	13280	11170	9830	16260	14690	13280	12350	10390	9140	14910	13470	12170	11330	9530	8380	13990	12640	11420	10630	8940	7860	13340	12050	10890	10130	8520	7500
700x126	16500	16500	15090	14040	11810	10390	16500	15530	14030	13060	10980	9660	15760	14240	12870	11980	10070	8860	14790	13360	12070	11230	9450	8310	14100	12740	11510	10710	9010	7930
750x126	16500	16500	15890	14790	12440	10940	16500	16360	14780	13750	11570	10180	16500	15000	13550	12610	10600	9330	15570	14070	12710	11830	9950	8750	14850	13420	12120	11280	9480	8350
800x126	16500	16500	16500	15520	13050	11490	16500	16500	15510	14440	12140	10680	16500	15740	14230	13240	11130	9800	16340	14770	13340	12420	10440	9190	15580	14080	12720	11840	9960	8760
850x126	16500	16500	16500	16250	13660	12020	16500	16500	16240	15110	12700	11180	16500	16480	14890	13850	11650	10250	16500	15460	13970	13000	10930	9620	16310	14740	13320	12390	10420	9170
900x126	16500	16500	16500	16500	14260	12550	16500	16500	16500	15770	13260	11670	16500	16500	15540	14460	12160	10700	16500	16130	14580	13570	11410	10040	16500	15380	13900	12930	10880	9570
950x126	16500	16500	16500	16500	14850	13070	16500	16500	16500	16420	13810	12150	16500	16500	16180	15060	12660	11140	16500	16500	15180	14130	11880	10450	16500	16020	14470	13470	11330	9970
1000x126	16500	16500	16500	16500	15430	13580	16500	16500	16500	16500	14350	12630	16500	16500	16500	15650	13160	11580	16500	16500	15780	14680	12340	10860	16500	16500	15040	14000	11770	10360
210x210	7230	6840	6400	6050	5150	4490	7230	6840	6400	6010	5060	4450	7230	6560	5920	5510	4640	4080	6810	6150	5560	5170	4350	3830	6490	5860	5300	4930	4150	3650
400x210	11810	11400	10880	10440	8820	7760	11810	11400	10480	9750	8200	7220	11770	10630	9610	8940	7520	6620	11040	9980	9010	8390	7050	6210	10530	9510	8590	8000	6720	5920
450x210	12880	12470	11940	11460	9630	8480	12880	12470	11450	10650	8960	7880	12880	11620	10500	9770	8210	7230	12060	10900	9850	9160	7700	6780	11500	10390	9390	8740	7350	6460
500x210	13910	13500	12970	12400	10420	9170	13910	13500	12390	11530	9690	8530	13910	12570	11360	10570	8890	7820	13050	11790	10660	9920	8340	7340	12450	11250	10160	9460	7950	7000
550x210	14910	14500	13970	13320	11200	9850	14910	14500	13310	12380	10410	9160	14910	13510																

Table 44.5: Red Stag Vertix₁₀ Rafter Beam Span Table ^a

Vertex Rafters						Heavy Configuration						Vertex ₁₀						0°–25°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
88x88	2320	2050	1810	1650	1320	1120	2320	2050	1810	1650	1320	1120	2320	2050	1810	1650	1320	1120	2320	2050	1810	1650	1320	1120	2320	2050	1810	1650	1320	1120	
140x88	3610	3220	2850	2610	2090	1770	3610	3220	2850	2610	2090	1770	3610	3220	2850	2610	2090	1770	3610	3220	2850	2610	2090	1770	3610	3220	2850	2610	2090	1770	
190x88	4800	4300	3830	3510	2830	2400	4800	4300	3830	3510	2830	2400	4800	4300	3830	3510	2830	2400	4800	4300	3830	3510	2830	2400	4800	4300	3830	3510	2830	2400	
240x88	5940	5360	4790	4410	3560	3030	5940	5360	4790	4410	3560	3030	5940	5360	4790	4410	3560	3030	5940	5360	4790	4410	3560	3030	5940	5360	4790	4410	3560	3030	
290x88	7050	6390	5730	5280	4290	3650	7050	6390	5730	5280	4290	3650	7050	6390	5730	5280	4290	3650	7050	6390	5730	5280	4290	3650	7050	6390	5730	5280	4290	3650	
300x88	7270	6590	5920	5460	4430	3780	7270	6590	5920	5460	4430	3780	7270	6590	5920	5460	4430	3780	7270	6590	5920	5460	4430	3780	7270	6590	5920	5460	4430	3780	
315x88	7590	6890	6200	5720	4650	3960	7590	6890	6200	5720	4650	3960	7590	6890	6200	5720	4650	3960	7590	6890	6200	5720	4650	3960	7590	6890	6200	5720	4650	3960	
350x88	8330	7590	6840	6320	5150	4400	8330	7590	6840	6320	5150	4400	8330	7590	6840	6320	5150	4400	8330	7590	6840	6320	5150	4400	8330	7590	6840	6320	5150	4400	
360x88	8540	7790	7020	6490	5300	4520	8540	7790	7020	6490	5300	4520	8540	7790	7020	6490	5300	4520	8540	7790	7020	6490	5300	4520	8540	7790	7020	6490	5300	4520	
400x88	9370	8570	7750	7170	5870	5010	9370	8570	7750	7170	5870	5010	9370	8570	7750	7170	5870	5010	9370	8570	7750	7170	5870	5010	9370	8570	7750	7170	5870	5010	
405x88	9470	8670	7840	7260	5940	5070	9470	8670	7840	7260	5940	5070	9470	8670	7840	7260	5940	5070	9470	8670	7840	7260	5940	5070	9470	8670	7840	7260	5940	5070	
450x88	10380	9530	8640	8010	6570	5620	10380	9530	8640	8010	6570	5620	10380	9530	8640	8010	6570	5620	10380	9530	8640	8010	6570	5620	10380	9530	8640	8010	6570	5620	
495x88	11260	10370	9430	8760	7210	6170	11260	10370	9430	8760	7210	6170	11260	10370	9430	8760	7210	6170	11260	10370	9430	8760	7210	6170	11260	10370	9430	8760	7210	6170	
500x88	11360	10460	9520	8840	7280	6230	11360	10460	9520	8840	7280	6230	11360	10460	9520	8840	7280	6230	11360	10460	9520	8840	7280	6230	11360	10460	9520	8840	7280	6230	
540x88	12130	11200	10210	9500	7840	6720	12130	11200	10210	9500	7840	6720	12130	11200	10210	9500	7840	6720	12130	11200	10210	9500	7840	6720	12130	11200	10210	9500	7840	6720	
550x88	12320	11380	10380	9660	7970	6840	12320	11380	10380	9660	7970	6840	12320	11380	10380	9660	7970	6840	12320	11380	10380	9660	7970	6840	12320	11380	10380	9660	7970	6840	
595x88	13160	12190	11150	10390	8600	7390	13160	12190	11150	10390	8600	7390	13160	12190	11150	10390	8600	7390	13160	12190	11150	10390	8600	7390	13160	12190	11150	10390	8600	7390	
600x88	13250	12280	11230	10470	8670	7450	13250	12280	11230	10470	8670	7450	13250	12280	11170	10400	8670	7450	13250	12280	11170	10400	8670	7450	13250	12280	11170	10400	8670	7450	
126x126	3600	3220	2870	2630	2120	1800	3600	3220	2870	2630	2120	1800	3600	3220	2870	2630	2120	1800	3600	3220	2870	2630	2120	1800	3600	3220	2870	2630	2120	1800	
250x126	6690	6100	5500	5080	4140	3540	6690	6100	5500	5080	4140	3540	6690	6100	5500	5080	4140	3540	6690	6100	5500	5080	4140	3540	6690	6100	5500	5080	4140	3540	
300x126	7850	7190	6510	6040	4950	4230	7850	7190	6510	6040	4950	4230	7850	7190	6510	6040	4950	4230	7850	7190	6510	6040	4950	4230	7850	7190	6510	6040	4950	4230	
350x126	8960	8250	7510	6970	5740	4920	8960	8250	7510	6970	5740	4920	8960	8250	7510	6970	5740	4920	8960	8250	7510	6970	5740	4920	8960	8250	7510	6970	5740	4920	
400x126	10030	9280	8480	7890	6520	5600	10030	9280	8480	7890	6520	5600	10030	9280	8480	7890	6520	5600	10030	9280	8480	7890	6520	5600	10030	9280	8480	7890	6520	5600	
450x126	11070	10280	9420	8800	7300	6280	11070	10280	9420	8800	7300	6280	11070	10280	9420	8800	7300	6280	11070	10280	9420	8800	7300	6280	11070	10280	9420	8800	7300	6280	
500x126	12080	11260	10350	9680	8070	6960	12080	11260	10350	9680	8070	6960	12080	11260	10350	9680	8070	6960	12080	11260	10350	9680	8070	6960	12080	11260	10350	9680	8070	6960	
550x126	13060	12210	11270	10560	8830	7630	13060	12210	11270	10560	8830	7630	13060	12210	11270	10560	8830	7630	13060	12210	11190	10740	9990	8400	7400	12540	11330	10240	9530	8010	7050
600x126	14020	13150	12160	11420	9590	8290	14020	13150	12160	11420	9590	8290	14020	13150	12160	11370	9560	8290	14020	13150	12160	11460	10670	9870	7890	13390	12100	10930	10170	8550	7530
650x126	14950	14060	13040	12260	10330	8950	14950	14060	13040	12260	10330	8950	14950	14060	12980	12080	10160	8940	14910	13470	12170	11330	9530	8380	14220	12850	11610	10800	9080	7990	
700x126	15870	14960	13910	13100	11070	9610	15870	14960	13910	13100	11070	9610	15870	14960	13720	12770	10740	9450	15760	14240	12870	11980	10070	8860	15030	13580	12270	11420	9600	8450	
750x126	16500	15830	14760	13920	11810	10270	16500	15830	14760	13920	11810	10270	16500	15830	14450	13450	11310	9950	16500	15000	13550	12610	10610	9330	15830	14300	12920	12030	10110	8900	
800x126	16500	16500	15590	14730	12530	10920	16500	16500	15590	14730	12530	10920	16500	16500	15170	14110	11870	10440	16500	15750	14230	13240	11130	9800	16500	15010	13560	12620	10610	9340	
850x126	16500	16500	16420	15530	13250	11560	16500	16500	16420	15530	13250	11560	16500	16500	15870	14770	12420	10930	16500	16480	14890	13860	11650	10250	16500	15710	14200	13210	11110	9780	
900x126	16500	16500	16500	16320	13970	12200	16500	16500	16500	16320	13970	12200	16500	16500	16500	15420	12960	11410	16500	16500	15540	14460	12160	10700	16500	16400	14820	13790	11590	10200	
950x126	16500	16500	16500	16500	14670	12840	16500	16500	16500	16500	14670	12840	16500	16500	16500	16060	13500	11880	16500	16500	16180	15060	12660	11150	16500	16500	15430	14360	12070	10630	
1000x126	16500	16500	16500	16500	15380	13480	16500	16500	16500	16500	15380	13470	16500	16500	16500	16500	14030	12350	16500	16500	16500	15650	13160	11580	16500	16500	16040	14920	12550	11040	
210x210	6370	5870	5340	4960	4080	3500	6370	5870	5340	4960	4080	3500	6370	5870	5340	4960	4080	3500	6370	5870	5340	4960	4080	3500	6370	5870	5340	4960	4080	3500	
400x210	10850	10210	9480	8920	7520	6520	10850	10210	9480	8920	7520	6520	10850	10210	9480	8920	7520	6520	10850	10210	9480	8920	7520	6520	10850	10140	9160	8530	7170	6310	
450x210	11920	11260	10500	9900	8400	7300	11920	11260	10500	9900	8400	7300	11920	11260	10500	9900	8400	7300	11920	11260	10500	9900	8400	7300	11920	11080	10010	9310	7830	6890	
500x210	12950	12280	11480	10860	9260	8070	12950	12280	11480	10860	9260	8070	12950	12280	11480	10860	9260	8070	12950	12280	11360	10570	8890	7820	12950	11990	10830	10080	8480	7460	
550x210	13950	13260	12450	11800	10100	8830	13950	13260	12450	11800																					

Table 44.6: Red Stag Vertix₁₀ Rafter Beam Span Table ^a

Vertix Rafters						Heavy Configuration						Vertix ₁₀						25°-45°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
88x88	2130	1890	1670	1520	1220	1030	2130	1890	1670	1520	1220	1030	2130	1890	1670	1520	1220	1030	2130	1890	1670	1520	1220	1030	2130	1890	1670	1520	1220	1030	
140x88	3320	2960	2620	2400	1930	1630	3320	2960	2620	2400	1930	1630	3320	2960	2620	2400	1930	1630	3320	2960	2620	2400	1930	1630	3320	2960	2620	2400	1930	1630	
190x88	4420	3960	3530	3230	2610	2210	4420	3960	3530	3230	2610	2210	4420	3960	3530	3230	2610	2210	4420	3960	3530	3230	2610	2210	4420	3960	3530	3230	2610	2210	
240x88	5470	4930	4410	4060	3280	2790	5470	4930	4410	4060	3280	2790	5470	4930	4410	4060	3280	2790	5470	4930	4410	4060	3280	2790	5470	4930	4410	4060	3280	2790	
290x88	6490	5880	5280	4860	3950	3360	6490	5880	5280	4860	3950	3360	6490	5880	5280	4860	3950	3360	6490	5880	5280	4860	3950	3360	6490	5880	5280	4860	3950	3360	
300x88	6690	6070	5450	5020	4080	3480	6690	6070	5450	5020	4080	3480	6690	6070	5450	5020	4080	3480	6690	6070	5450	5020	4080	3480	6690	6070	5450	5020	4080	3480	
315x88	6990	6350	5710	5260	4280	3650	6990	6350	5710	5260	4280	3650	6990	6350	5710	5260	4280	3650	6990	6350	5710	5260	4280	3650	6990	6350	5710	5260	4280	3650	
350x88	7670	6990	6300	5820	4740	4050	7670	6990	6300	5820	4740	4050	7670	6990	6300	5820	4740	4050	7670	6990	6300	5820	4740	4050	7670	6990	6300	5820	4740	4050	
360x88	7860	7170	6470	5980	4880	4160	7860	7170	6470	5980	4880	4160	7860	7170	6470	5980	4880	4160	7860	7170	6470	5980	4880	4160	7860	7170	6470	5980	4880	4160	
400x88	8630	7890	7130	6600	5400	4610	8630	7890	7130	6600	5400	4610	8630	7890	7130	6600	5400	4610	8630	7890	7130	6600	5400	4610	8630	7890	7130	6600	5400	4610	
405x88	8720	7980	7220	6680	5470	4670	8720	7980	7220	6680	5470	4670	8720	7980	7220	6680	5470	4670	8720	7980	7220	6680	5470	4670	8720	7980	7220	6680	5470	4670	
450x88	9550	8770	7950	7380	6050	5180	9550	8770	7950	7380	6050	5180	9550	8770	7950	7380	6050	5180	9550	8770	7950	7380	6050	5180	9550	8770	7950	7380	6050	5180	
495x88	10370	9540	8680	8060	6630	5680	10370	9540	8680	8060	6630	5680	10370	9540	8680	8060	6630	5680	10370	9540	8680	8060	6630	5680	10370	9540	8680	8060	6630	5680	
500x88	10460	9630	8760	8140	6700	5740	10460	9630	8760	8140	6700	5740	10460	9630	8760	8140	6700	5740	10460	9630	8760	8140	6700	5740	10460	9630	8760	8140	6700	5740	
540x88	11160	10310	9400	8740	7210	6190	11160	10310	9400	8740	7210	6190	11160	10310	9400	8740	7210	6190	11160	10310	9400	8740	7210	6190	11160	10310	9400	8740	7210	6190	
550x88	11340	10470	9560	8890	7340	6300	11340	10470	9560	8890	7340	6300	11340	10470	9560	8890	7340	6300	11340	10470	9560	8890	7340	6300	11340	10470	9560	8890	7340	6300	
595x88	12120	11220	10260	9560	7920	6800	12120	11220	10260	9560	7920	6800	12120	11220	10260	9560	7920	6800	12120	11220	10260	9560	7920	6800	12120	11220	10260	9560	7920	6800	
600x88	12200	11300	10340	9640	7980	6860	12200	11300	10340	9640	7980	6860	12200	11300	10340	9640	7980	6860	12200	11300	10340	9640	7980	6860	12200	11300	10340	9640	7980	6860	
126x126	3310	2970	2640	2420	1950	1650	3310	2970	2640	2420	1950	1650	3310	2970	2640	2420	1950	1650	3310	2970	2640	2420	1950	1650	3310	2970	2640	2420	1950	1650	
250x126	6160	5610	5060	4680	3820	3250	6160	5610	5060	4680	3820	3250	6160	5610	5060	4680	3820	3250	6160	5610	5060	4680	3820	3250	6160	5610	5060	4680	3820	3250	
300x126	7220	6620	6000	5560	4550	3890	7220	6620	6000	5560	4550	3890	7220	6620	6000	5560	4550	3890	7220	6620	6000	5560	4550	3890	7220	6620	6000	5560	4550	3890	
350x126	8250	7590	6910	6420	5280	4530	8250	7590	6910	6420	5280	4530	8250	7590	6910	6420	5280	4530	8250	7590	6910	6420	5280	4530	8250	7590	6910	6420	5280	4530	
400x126	9230	8540	7800	7270	6010	5160	9230	8540	7800	7270	6010	5160	9230	8540	7800	7270	6010	5160	9230	8540	7800	7270	6010	5160	9230	8540	7800	7270	6010	5160	
450x126	10190	9470	8680	8100	6720	5780	10190	9470	8680	8100	6720	5780	10190	9470	8680	8100	6720	5780	10190	9470	8680	8100	6720	5780	10190	9470	8680	8100	6720	5780	
500x126	11120	10370	9530	8910	7430	6400	11120	10370	9530	8910	7430	6400	11120	10370	9530	8910	7430	6400	11120	10370	9530	8910	7430	6400	11120	10370	9530	8910	7430	6400	
550x126	12030	11240	10370	9720	8130	7020	12030	11240	10370	9720	8130	7020	12030	11240	10370	9720	8130	7020	12030	11240	10370	9720	8130	7020	12030	11240	10370	9720	8130	7020	
600x126	12910	12100	11200	10510	8820	7630	12910	12100	11200	10510	8820	7630	12910	12100	11200	10510	8820	7630	12910	12100	11200	10510	8820	7630	12910	12100	11200	10510	8820	7630	
650x126	13770	12940	12010	11290	9510	8240	13770	12940	12010	11290	9510	8240	13770	12940	12010	11290	9510	8240	13770	12940	12010	11290	9510	8240	13770	12940	12010	11290	9510	8240	
700x126	14610	13770	12800	12060	10190	8850	14610	13770	12800	12060	10190	8850	14610	13770	12800	12060	10190	8850	14610	13770	12800	12060	10190	8850	14610	13770	12800	12060	10190	8850	
750x126	15430	14580	13580	12820	10870	9450	15430	14580	13580	12820	10870	9450	15430	14580	13580	12820	10870	9450	15430	14580	13580	12820	10870	9450	15430	14580	13580	12820	10870	9450	
800x126	16230	15370	14350	13560	11540	10050	16230	15370	14350	13560	11540	10050	16230	15370	14350	13560	11540	10050	16230	15370	14350	13560	11540	10050	16230	15370	14350	13560	11540	10050	
850x126	16500	16150	15110	14300	12200	10640	16500	16150	15110	14230	11960	10530	16500	16150	15110	14230	11960	10530	16500	16150	15110	14230	11960	10530	16500	16150	15110	14230	11960	10530	
900x126	16500	16500	15860	15030	12860	11230	16500	16500	15860	14850	12490	10990	16500	16500	15860	14630	13620	11450	10080	16500	16500	15860	15190	12740	11170	10580	16500	16500	15860	15190	12740
950x126	16500	16500	16500	15750	13510	11820	16500	16500	16500	15470	13000	11440	16500	16500	16500	15240	14180	11920	10490	16500	16500	16500	15820	14300	13300	11190	9840	16500	16500	15820	14300
1000x126	16500	16500	16500	16460	14150	12410	16500	16500	16500	16070	13510	11890	16500	16500	16500	15840	14740	12390	10910	16500	16500	16500	16440	14860	13820	11620	10230	16500	16500	16440	14860
210x210	5860	5400	4910	4560	3760	3220	5860	5400	4910	4560	3760	3220	5860	5400	4910	4560	3760	3220	5860	5400	4910	4560	3760	3220	5860	5400	4910	4560	3760	3220	
400x210	9990	9400	8730	8210	6930	6010	9990	9400	8730	8210	6930	6010	9990	9400	8730	8210	6930	6010	9990	9400	8730	8210	6930	6010	9990	9400	8730	8210	6930	6010	
450x210	10970	10370	9660	9120	7730	6720	10970	10370	9660	9120	7730	6720	10970	10370	9660	9120	7730	6720	10970	10370	9660	9120	7730	6720	10970	10370	9660	9120	7730	6720	
500x210	11920	11300	10570	10000	8520	7430	11920	11300	10570	10000	8520	7430	11920	11300	10570	9960	8370	7370	11920	11110	10040	9340	7850	6910	11920	10590	9570	8900	7490	6590	
550x210	12840	12210	11460	10860	9300	8130	12840	12210	11460	10860	9300	8130	12840	12210	11460	10690	899														

Table 44.7: Red Stag Vertix₂₀ Rafter Beam Span Table ^a

Vertex Rafters						Heavy Configuration						Vertix ₂₀						0°–25°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
88x88	2510	2230	1960	1790	1430	1210	2510	2230	1960	1790	1430	1210	2510	2230	1960	1790	1430	1210	2510	2230	1960	1790	1430	1210	2510	2230	1960	1790	1430	1210	
140x88	3910	3490	3090	2830	2270	1920	3910	3490	3090	2830	2270	1920	3910	3490	3090	2830	2270	1920	3910	3490	3090	2830	2270	1920	3910	3490	3090	2830	2270	1920	
190x88	5200	4660	4150	3810	3070	2600	5200	4660	4150	3810	3070	2600	5200	4660	4150	3810	3070	2600	5200	4660	4150	3810	3070	2600	5200	4660	4150	3810	3070	2600	
240x88	6440	5810	5190	4770	3860	3280	6440	5810	5190	4770	3860	3280	6440	5810	5190	4770	3860	3280	6440	5810	5190	4770	3860	3280	6440	5810	5190	4770	3860	3280	
290x88	7640	6920	6210	5730	4650	3960	7640	6920	6210	5730	4650	3960	7640	6920	6210	5730	4650	3960	7640	6920	6210	5730	4650	3960	7640	6920	6210	5730	4650	3960	
300x88	7870	7140	6410	5910	4800	4090	7870	7140	6410	5910	4800	4090	7870	7140	6410	5910	4800	4090	7870	7140	6410	5910	4800	4090	7870	7140	6410	5910	4800	4090	
315x88	8220	7470	6720	6200	5040	4290	8220	7470	6720	6200	5040	4290	8220	7470	6720	6200	5040	4290	8220	7470	6720	6200	5040	4290	8220	7470	6720	6200	5040	4290	
350x88	9030	8230	7410	6850	5580	4760	9030	8230	7410	6850	5580	4760	9030	8230	7410	6850	5580	4760	9030	8230	7410	6850	5580	4760	9030	8230	7410	6850	5580	4760	
360x88	9260	8440	7610	7030	5740	4900	9260	8440	7610	7030	5740	4900	9260	8440	7610	7030	5740	4900	9260	8440	7610	7030	5740	4900	9260	8440	7610	7030	5740	4900	
400x88	10150	9280	8400	7770	6360	5430	10150	9280	8400	7770	6360	5430	10150	9280	8400	7770	6360	5430	10150	9280	8400	7770	6360	5430	10150	9280	8400	7770	6360	5430	
405x88	10260	9390	8490	7860	6430	5500	10260	9390	8490	7860	6430	5500	10260	9390	8490	7860	6430	5500	10260	9390	8490	7860	6430	5500	10260	9390	8490	7860	6430	5500	
450x88	11240	10320	9360	8680	7120	6090	11240	10320	9360	8680	7120	6090	11240	10320	9360	8680	7120	6090	11240	10320	9360	8680	7120	6090	11240	10320	9360	8680	7120	6090	
495x88	12200	11230	10220	9490	7810	6690	12200	11230	10220	9490	7810	6690	12200	11230	10220	9490	7810	6690	12200	11230	10220	9490	7810	6690	12200	11230	10220	9490	7810	6690	
500x88	12310	11330	10310	9580	7880	6760	12310	11330	10310	9580	7880	6760	12310	11330	10310	9580	7880	6760	12310	11330	10310	9580	7880	6760	12310	11330	10310	9580	7880	6760	
540x88	13140	12130	11060	10290	8490	7280	13140	12130	11060	10290	8490	7280	13140	12130	11060	10290	8490	7280	13140	12130	11060	10290	8490	7280	13140	12130	11060	10290	8490	7280	
550x88	13350	12330	11250	10470	8640	7410	13350	12330	11250	10470	8640	7410	13350	12330	11250	10470	8640	7410	13350	12330	11250	10470	8640	7410	13350	12330	11250	10470	8640	7410	
595x88	14260	13210	12080	11250	9320	8000	14260	13210	12080	11250	9320	8000	14260	13210	12080	11250	9320	8000	14260	13210	12080	11250	9320	8000	14260	13210	12080	11250	9320	8000	
600x88	14360	13300	12170	11340	9390	8070	14360	13300	12170	11340	9390	8070	14360	13300	12170	11340	9390	8070	14360	13300	12170	11340	9390	8070	14360	13300	12170	11340	9390	8070	
126x126	3900	3490	3110	2850	2290	1950	3900	3490	3110	2850	2290	1950	3900	3490	3110	2850	2290	1950	3900	3490	3110	2850	2290	1950	3900	3490	3110	2850	2290	1950	
250x126	7250	6610	5960	5510	4490	3830	7250	6610	5960	5510	4490	3830	7250	6610	5960	5510	4490	3830	7250	6610	5960	5510	4490	3830	7250	6610	5960	5510	4490	3830	
300x126	8500	7790	7060	6540	5360	4580	8500	7790	7060	6540	5360	4580	8500	7790	7060	6540	5360	4580	8500	7790	7060	6540	5360	4580	8500	7790	7060	6540	5360	4580	
350x126	9710	8940	8130	7560	6220	5330	9710	8940	8130	7560	6220	5330	9710	8940	8130	7560	6220	5330	9710	8940	8130	7560	6220	5330	9710	8940	8130	7560	6220	5330	
400x126	10870	10050	9180	8550	7070	6070	10870	10050	9180	8550	7070	6070	10870	10050	9180	8550	7070	6070	10870	10050	9180	8550	7070	6070	10870	10050	9180	8550	7070	6070	
450x126	12000	11140	10210	9530	7910	6810	12000	11140	10210	9530	7910	6810	12000	11140	10210	9530	7910	6810	12000	11140	10210	9530	7910	6810	12000	11140	10210	9530	7910	6810	
500x126	13090	12200	11220	10490	8740	7540	13090	12200	11220	10490	8740	7540	13090	12200	11220	10490	8740	7540	13090	12200	11220	10490	8740	7540	13090	12200	11220	10490	8740	7540	
550x126	14150	13230	12210	11440	9570	8260	14150	13230	12210	11440	9570	8260	14150	13230	12210	11440	9570	8260	14150	13230	12210	11440	9570	8260	14150	13230	12210	11440	9570	8260	
600x126	15190	14240	13180	12370	10390	8980	15190	14240	13180	12370	10390	8980	15190	14240	13180	12370	10390	8980	15190	14240	13180	12370	10390	8980	15190	14240	13180	12370	10390	8980	
650x126	16200	15230	14130	13290	11190	9700	16200	15230	14130	13290	11190	9700	16200	15230	14130	13290	11190	9700	16200	15230	14130	13290	11190	9700	16200	15230	14130	13290	11190	9700	
700x126	16500	16200	15070	14190	12000	10410	16500	16200	15070	14190	12000	10410	16500	16200	15070	14190	12000	10410	16500	16200	15070	14190	12000	10410	16500	16200	15070	14190	12000	10410	
750x126	16500	16500	15990	15080	12790	11120	16500	16500	15990	15080	12790	11120	16500	16500	15990	15080	12790	11120	16500	16500	15990	15080	12790	11120	16500	16500	15990	15080	12790	11120	
800x126	16500	16500	16500	15960	13580	11830	16500	16500	16500	15960	13580	11830	16500	16500	16500	16110	14990	12600	11090	16500	16500	16500	15110	14060	11820	10400	16500	16500	15940	14410	13410
850x126	16500	16500	16500	16500	14360	12530	16500	16500	16500	16500	14360	12530	16500	16500	16500	16500	15690	13190	11610	16500	16500	16500	15810	14710	12370	10890	16500	16500	15080	14030	11800
900x126	16500	16500	16500	16500	15130	13220	16500	16500	16500	16500	15130	13210	16500	16500	16500	16370	13770	12120	16500	16500	16500	16500	15360	12910	11370	16500	16500	16500	15740	14640	12310
950x126	16500	16500	16500	16500	15900	13910	16500	16500	16500	16500	15900	13760	16500	16500	16500	16500	14340	12620	16500	16500	16500	16500	15990	13450	11840	16500	16500	16500	16390	15250	12820
1000x126	16500	16500	16500	16500	16500	14600	16500	16500	16500	16500	16500	16250	14300	16500	16500	16500	16500	14900	13110	16500	16500	16500	16500	13980	12300	16500	16500	16500	16500	15850	13330
210x210	6900	6360	5780	5370	4420	3790	6900	6360	5780	5370	4420	3790	6900	6360	5780	5370	4420	3790	6900	6360	5780	5370	4420	3790	6900	6360	5780	5370	4420	3790	
400x210	11760	11070	10270	9670	8150	7070	11760	11070	10270	9670	8150	7070	11760	11070	10270	9670	8150	7070	11760	11070	10270	9670	8150	7070	11760	11070	10270	9670	8150	7070	
450x210	12920	12200	11370	10730	9100	7910	12920	12200	11370	10730	9100	7910	12920	12200	11370	10730	9100	7910	12920	12200	11370	10730	9100	7910	12920	12200	11370	10730	9100	7910	
500x210	14030	13300	12440	11770	10030	8740	14030	13300	12440	11770	10030	8740	14030	13300	12440	11770	10030	8740	14030	13300	12440	11770	10030	8740	14030	13300	12440	11770	10030	8740	

Table 44.8: Red Stag Vertix₂₀ Rafter Beam Span Table ^a

Vertex Rafters					Heavy Configuration								Vertex ₂₀								25°-45°										
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	400	600	900	1200	2400	4000	
88x88	2310	2050	1810	1650	1320	1110	2310	2050	1810	1650	1320	1110	2310	2050	1810	1650	1320	1110	2310	2050	1810	1650	1320	1110	2310	2050	1810	1650	1320	1110	
140x88	3600	3210	2840	2600	2090	1770	3600	3210	2840	2600	2090	1770	3600	3210	2840	2600	2090	1770	3600	3210	2840	2600	2090	1770	3600	3210	2840	2600	2090	1770	
190x88	4780	4290	3820	3510	2820	2400	4780	4290	3820	3510	2820	2400	4780	4290	3820	3510	2820	2400	4780	4290	3820	3510	2820	2400	4780	4290	3820	3510	2820	2400	
240x88	5930	5350	4780	4390	3550	3020	5930	5350	4780	4390	3550	3020	5930	5350	4780	4390	3550	3020	5930	5350	4780	4390	3550	3020	5930	5350	4780	4390	3550	3020	
290x88	7030	6370	5720	5270	4280	3640	7030	6370	5720	5270	4280	3640	7030	6370	5720	5270	4280	3640	6980	6300	5700	5270	4280	3640	6650	6070	5430	5050	4250	3640	
300x88	7250	6570	5900	5440	4420	3770	7250	6570	5900	5440	4420	3770	7250	6570	5900	5440	4420	3770	7160	6470	5840	5440	4420	3770	6820	6170	5570	5180	4360	3770	
315x88	7570	6880	6180	5700	4640	3950	7570	6880	6180	5700	4640	3950	7570	6880	6180	5700	4640	3950	7420	6710	6060	5640	4640	3950	7080	6400	5780	5380	4520	3950	
350x88	8310	7570	6820	6300	5140	4380	8310	7570	6820	6300	5140	4380	8310	7570	6820	6300	5140	4380	8040	7260	6560	6100	5130	4380	7660	6920	6250	5820	4890	4310	
360x88	8520	7770	7010	6480	5280	4510	8520	7770	7010	6480	5280	4510	8520	7770	7010	6480	5280	4510	8210	7420	6700	6230	5240	4510	7820	7070	6390	5940	5000	4400	
400x88	9350	8550	7730	7150	5850	5000	9350	8550	7730	7150	5850	5000	9350	8550	7730	7150	5850	5000	8880	8030	7250	6750	5670	4990	8470	7650	6910	6430	5410	4760	
405x88	9450	8640	7820	7240	5920	5060	9450	8640	7820	7240	5920	5060	9450	8640	7820	7240	5920	5060	8970	8100	7320	6810	5730	5040	8550	7720	6980	6490	5460	4800	
450x88	10350	9500	8620	7990	6560	5610	10350	9500	8620	7990	6560	5610	10340	9350	8440	7860	6560	5610	9700	8770	7920	7370	6200	5450	9250	8360	7550	7030	5910	5200	
495x88	11230	10340	9400	8740	7190	6160	11230	10340	9400	8740	7190	6160	11110	10040	9070	8440	7100	6160	10420	9420	8510	7920	6660	5860	9940	8980	8110	7550	6350	5590	
500x88	11330	10430	9490	8820	7260	6220	11330	10430	9490	8820	7260	6220	11190	10120	9140	8510	7150	6220	10500	9490	8570	7980	6710	5900	10010	9050	8170	7610	6400	5630	
540x88	12100	11170	10180	9470	7820	6700	12100	11170	10180	9470	7820	6700	11860	10720	9680	9010	7580	6670	11130	10050	9080	8450	7110	6250	10610	9580	8660	8060	6780	5960	
550x88	12290	11350	10350	9630	7950	6820	12290	11350	10350	9630	7950	6820	12020	10870	9820	9140	7680	6760	11280	10190	9210	8570	7210	6340	10750	9720	8780	8170	6870	6050	
595x88	13130	12160	11120	10360	8580	7370	13130	12160	11120	10360	8580	7370	12760	11530	10410	9690	8150	7170	11970	10810	9770	9090	7640	6730	11410	10310	9310	8670	7290	6410	
600x88	13220	12250	11200	10440	8640	7430	13220	12250	11200	10440	8640	7430	12840	11600	10480	9750	8200	7220	12040	10880	9830	9150	7690	6770	11480	10370	9370	8720	7330	6450	
126x126	3590	3220	2860	2620	2110	1790	3590	3220	2860	2620	2110	1790	3590	3220	2860	2620	2110	1790	3590	3220	2860	2620	2110	1790	3590	3220	2860	2620	2110	1790	
250x126	6670	6080	5480	5070	4130	3530	6670	6080	5480	5070	4130	3530	6670	6080	5480	5070	4130	3530	6670	6080	5480	5070	4130	3530	6670	6080	5480	5070	4130	3530	
300x126	7830	7170	6500	6020	4930	4220	7830	7170	6500	6020	4930	4220	7830	7170	6500	6020	4930	4220	7830	7170	6500	6020	4930	4220	7830	7170	6500	6020	4930	4220	
350x126	8930	8230	7490	6950	5730	4910	8930	8230	7490	6950	5730	4910	8930	8230	7490	6950	5730	4910	8930	8230	7490	6950	5730	4910	8930	8230	7490	6950	5730	4910	
400x126	10010	9260	8450	7870	6510	5590	10010	9260	8450	7870	6510	5590	10010	9260	8450	7870	6510	5590	9720	8780	7930	7380	6210	5460	9260	8370	7560	7040	5920	5210	
450x126	11040	10260	9400	8770	7280	6260	11040	10260	9400	8770	7280	6260	11040	10220	9240	8600	7230	6260	10610	9590	8670	8060	6780	5970	10120	9140	8260	7690	6460	5690	
500x126	12050	11230	10330	9660	8050	6940	12050	11230	10330	9660	8050	6940	12050	11070	10000	9300	7820	6880	11490	10380	9380	8730	7340	6460	10950	9900	8940	8320	7000	6160	
550x126	13030	12180	11240	10530	8810	7610	13030	12180	11240	10530	8810	7610	13030	11890	10740	9990	8400	7390	12340	11150	10070	9370	7880	6940	11760	10630	9610	8940	7520	6610	
600x126	13980	13110	12130	11390	9560	8270	13980	13110	12130	11390	9560	8270	13980	12890	11460	10670	9670	7890	13170	11900	10750	10010	8410	7400	12560	11350	10250	9540	8020	7060	
650x126	14920	14020	13010	12230	10310	8930	14920	14020	13010	12230	10310	8930	14910	13470	12170	11330	9530	8380	13990	12640	11420	10630	8940	7860	13340	12050	10890	10130	8520	7500	
700x126	15830	14920	13870	13070	11040	9590	15830	14920	13870	13060	10980	9590	15760	14240	12870	11980	10070	8860	14790	13360	12070	11230	9450	8310	14100	12740	11510	10710	9010	7930	
750x126	16500	15790	14720	13890	11770	10240	16500	15790	14720	13750	11570	10180	16500	15000	13550	12610	10600	9330	15570	14070	12710	11830	9950	8750	14850	13420	12120	11280	9480	8350	
800x126	16500	16500	15550	14700	12500	10890	16500	16500	15510	14440	12140	10680	16500	15740	14230	13240	11130	9800	16340	14770	13340	12420	10440	9190	15580	14080	12720	11840	9960	8760	
850x126	16500	16500	16370	15490	13220	11530	16500	16500	16240	15110	12700	11180	16500	16480	14890	13850	11650	10250	16500	15460	13970	13000	10930	9620	16310	14740	13320	12390	10420	9170	
900x126	16500	16500	16500	16280	13930	12170	16500	16500	16500	15770	13260	11670	16500	16500	15540	14460	12160	10700	16500	16130	14580	13570	11410	10040	16500	16500	15380	13900	12930	10880	9570
950x126	16500	16500	16500	16500	14640	12810	16500	16500	16500	16420	13810	12150	16500	16500	16180	15060	12660	11140	16500	16500	15180	14130	11880	10450	16500	16500	16020	14470	13470	11330	9970
1000x126	16500	16500	16500	16500	15340	13440	16500	16500	16500	16500	14350	12630	16500	16500	16500	15650	13160	11580	16500	16500	15780	14680	12340	10860	16500	16500	16500	15040	14000	11770	10360
210x210	6350	5850	5320	4950	4070	3490	6350	5850	5320	4950	4070	3490	6350	5850	5320	4950	4070	3490	6350	5850	5320	4950	4070	3490	6350	5850	5300	4930	4070	3490	
400x210	10830	10190	9460	8900	7510	6510	10830	10190	9460	8900	7510	6510	10830	10190	9460	8900	7510	6510	10830	9980	9010	8390	7050	6210	10530	9510	8590	8000	6720	5920	
450x210	11890	11230	10470	9880	8370	7280	11890	11230	10470	9880	8370	7280	11890	11230	10470	9770	8210	7230	11890	10900	9850	9160	7700	6780	11500	10390	9390	8740	7350	6460	
500x210	12920	12250	11450	10830	9230	8050	12920	12250	11450	10830	9230	8050	12920	12250	11360	10570	8890	7820	12920	11790	10660	9920	8340	7340	12450	11250	10160	9460	7950	7000	
550x210	13910	13230	12410	11770	10080	8810	13910	13230	12410	11770	10080	8810	13910	13230																	



A2 Red Stag Vertex and GLT_h Ridge Beam

Red Stag Vertex and GLT_h ridge beams are assumed to be subject to uniformly distributed loads. Accordingly, where the roof system includes rafters, a minimum of three rafters (at uniform spacing) are required over the ridge beam span. The location of the Red Stag Vertex or GLT_h ridge beam and its free-body diagram are presented in *Figure 26*. The Red Stag Vertex and GLT_h ridge beam spans are presented in *Table 45.1* to *Table 46.8*.

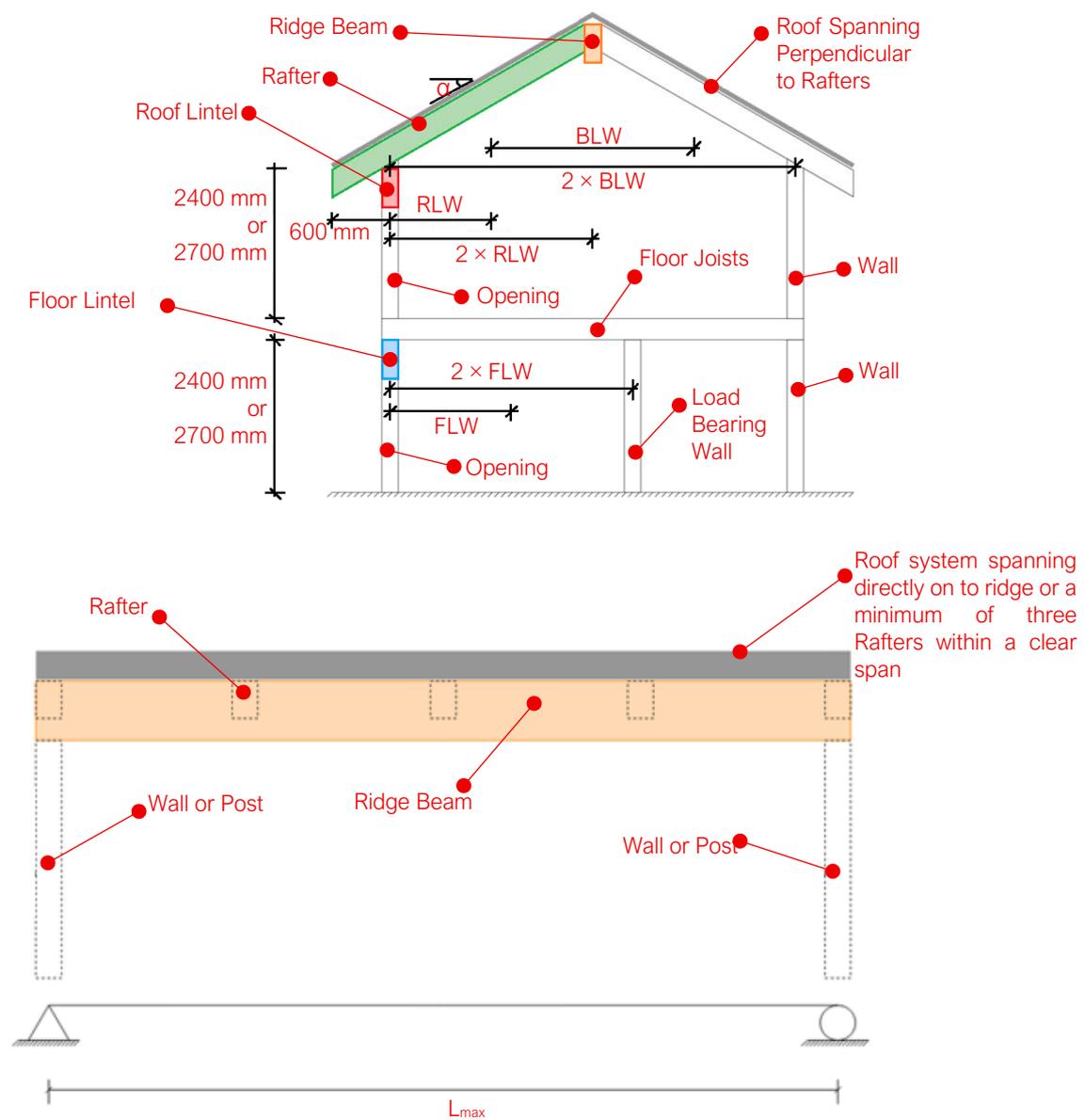


Figure 23: Red Stag Vertex and GLT_h ridge beam free diagram.

Table 45.1: Red Stag GLT_h8 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Light Configuration						GL8						0°–25°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
126×88	3060	2490	2200	2010	1870	1760	3060	2490	2200	2010	1870	1760	3060	2490	2200	2010	1870	1760	3060	2450	2140	1940	1800	1700	2900	2300	2010	1820	1690	1590	
168×88	4010	3290	2910	2660	2480	2340	4010	3290	2910	2660	2480	2340	4010	3290	2910	2660	2480	2340	3980	3270	2860	2590	2410	2270	3800	3070	2680	2430	2260	2130	
210×88	4930	4080	3620	3310	3090	2920	4930	4080	3620	3310	3090	2920	4930	4080	3620	3310	3090	2920	4710	3960	3570	3240	3010	2830	4490	3770	3350	3040	2830	2660	
252×88	5830	4860	4320	3960	3700	3490	5830	4860	4320	3960	3700	3490	5830	4860	4320	3960	3700	3490	5400	4540	4100	3820	3610	3400	5150	4330	3910	3640	3390	3190	
294×88	6700	5620	5010	4600	4300	4060	6700	5620	5010	4600	4300	4060	6700	5620	5010	4600	4300	4060	6060	5100	4610	4290	4050	3870	5780	4860	4390	4090	3860	3690	
336×88	7560	6370	5690	5230	4890	4630	7560	6370	5690	5230	4890	4630	7560	6370	5690	5230	4890	4630	7140	6010	5430	5050	4780	4560	6700	5630	5090	4740	4480	4280	4080
378×88	8390	7110	6370	5860	5480	5190	8390	7110	6370	5860	5480	5190	8390	7110	6370	5860	5480	5190	7800	6560	5930	5520	5220	4980	7320	6160	5560	5170	4890	4680	4460
420×88	9200	7830	7030	6480	6070	5750	9200	7740	7000	6480	6070	5750	9200	7740	7000	6480	6070	5750	8450	7100	6420	5970	5650	5390	7920	6660	6020	5600	5300	5060	4820
126×126	3370	2780	2460	2250	2090	1980	3370	2780	2460	2250	2090	1980	3370	2780	2460	2250	2090	1980	3370	2760	2410	2190	2030	1910	3270	2590	2260	2060	1910	1800	
168×126	4400	3660	3250	2980	2780	2620	4400	3660	3250	2980	2780	2620	4400	3660	3250	2980	2780	2620	4360	3660	3220	2920	2710	2550	4150	3460	3020	2740	2550	2400	
210×126	5380	4520	4030	3700	3460	3270	5380	4520	4030	3700	3460	3270	5380	4520	4030	3700	3460	3270	5380	4520	4030	3700	3460	3270	5380	4520	4030	3700	3460	3270	3000
252×126	6340	5360	4790	4410	4130	3900	6340	5360	4790	4410	4130	3900	6340	5360	4790	4410	4130	3900	6300	5290	4780	4410	4130	3900	5910	4970	4490	4180	3950	3770	3600
294×126	7260	6180	5550	5110	4790	4530	7260	6180	5550	5110	4790	4530	7260	6180	5550	5110	4790	4530	7070	5940	5370	5000	4730	4520	6630	5580	5040	4690	4430	4240	4040
336×126	8150	6990	6290	5810	5450	5160	8150	6990	6290	5810	5450	5160	8150	6990	6290	5810	5450	5160	7820	6570	5940	5520	5220	4990	7330	6160	5570	5180	4900	4680	4460
378×126	9010	7780	7020	6490	6100	5780	9010	7780	7020	6490	6100	5780	9010	7780	7020	6490	6100	5780	8540	7180	6490	6040	5710	5450	8010	6730	6080	5660	5350	5120	4880
420×126	9860	8550	7740	7170	6740	6400	9860	8470	7660	7120	6740	6400	9860	8470	7660	7120	6740	6400	9240	7770	7020	6530	6180	5900	8670	7290	6580	6130	5790	5540	5280

a. All dimension units are in millimeters.

Table 45.2: Red Stag GLT_h8 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Light Configuration						GL8						25°–45°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
126×88	2810	2290	2020	1850	1720	1620	2810	2290	2020	1850	1720	1620	2810	2290	2020	1850	1720	1620	2810	2290	2020	1850	1720	1620	2810	2290	2010	1820	1690	1590	
168×88	3690	3030	2680	2450	2280	2150	3690	3030	2680	2450	2280	2150	3690	3030	2680	2450	2280	2150	3690	3030	2680	2450	2280	2150	3690	3030	2880	2430	2260	2130	
210×88	4540	3760	3330	3050	2850	2690	4540	3760	3330	3050	2850	2690	4540	3760	3330	3050	2850	2690	4540	3760	3330	3050	2850	2690	4490	3760	3330	3040	2830	2660	
252×88	5370	4470	3980	3640	3400	3210	5370	4470	3980	3640	3400	3210	5370	4470	3980	3640	3400	3210	5370	4470	3980	3640	3400	3210	5370	4470	4330	3910	3640	3390	3190
294×88	6170	5170	4610	4230	3960	3740	6170	5170	4610	4230	3960	3740	6170	5170	4610	4230	3960	3740	6060	5100	4610	4230	3960	3740	5780	4860	4390	4090	3860	3690	
336×88	6960	5860	5240	4820	4500	4260	6960	5860	5240	4820	4500	4260	6960	5860	5240	4820	4500	4260	6700	5630	5090	4740	4480	4260	6390	5370	4850	4520	4270	4080	
378×88	7720	6540	5860	5390	5050	4780	7720	6540	5860	5390	5050	4780	7720	6540	5860	5390	5050	4780	7320	6160	5560	5170	4890	4680	6980	5870	5300	4930	4670	4460	
420×88	8470	7210	6470	5970	5590	5290	8470	7210	6470	5970	5590	5290	8470	7210	6470	5970	5590	5290	7920	6660	6020	5600	5300	5060	7550	6350	5740	5340	5050	4820	
126×126	3100	2560	2260	2070	1930	1820	3100	2560	2260	2070	1930	1820	3100	2560	2260	2070	1930	1820	3100	2560	2260	2070	1930	1820	3100	2560	2260	2060	1910	1800	
168×126	4050	3370	2990	2740	2560	2420	4050	3370	2990	2740	2560	2420	4050	3370	2990	2740	2560	2420	4050	3370	2990	2740	2560	2420	4050	3370	2990	2740	2550	2400	
210×126	4960	4160	3710	3400	3180	3010	4960	4160	3710	3400	3180	3010	4960	4160	3710	3400	3180	3010	4960	4160	3710	3400	3180	3010	4910	4130	3710	3400	3180	3000	
252×126	5830	4930	4410	4060	3800	3590	5830	4930	4410	4060	3800	3590	5830	4930	4410	4060	3800	3590	5830	4930	4410	4060	3800	3590	5830	4930	4410	4060	3800	3590	3590
294×126	6680	5690	5110	4710	4410	4170	6680	5690	5110	4710	4410	4170	6680	5690	5110	4710	4410	4170	6630	5580	5040	4690	4410	4170	6320	5320	4800	4470	4230	4040	
336×126	7500	6430	5790	5350	5010	4750	7500	6430	5790	5350	5010	4750	7500	6430	5790	5350	5010	4750	7330	6160	5570	5180	4900	4680	6990	5880	5310	4940	4670	4460	
378×126	8300	7160	6460	5980	5610	5320	8300	7160	6460	5980	5610	5320	8300	7160	6460	5980	5610	5320	8010	6730	6080	5660	5350	5120	7640	6420	5800	5400	5100	4880	
420×126	9070	7870	7130	6600	6200	5890	9070	7870	7130	6600	6200	5890	9070	7870	7130	6600	6200	5890	8670	7290	6580	6130	5790	5540	8260	6950	6280	5840	5520	5280	

a. All dimension units are in millimeters.

Table 45.3: Red Stag GLT_h10 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Light Configuration						GL10						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	3290	2690	2370	2160	2010	1900	3290	2690	2370	2160	2010	1900	3290	2690	2370	2160	2010	1900	3290	2640	2310	2090	1940	1830	3120	2480	2160	1970	1820	1720
168×88	4320	3550	3140	2870	2670	2520	4320	3550	3140	2870	2670	2520	4320	3550	3140	2870	2670	2520	4210	3520	3080	2790	2590	2440	4020	3310	2890	2620	2430	2290
210×88	5320	4400	3900	3570	3330	3140	5320	4400	3900	3570	3330	3140	5310	4400	3900	3570	3330	3140	4980	4190	3780	3490	3240	3050	4750	3990	3610	3280	3040	2860
252×88	6280	5230	4650	4270	3980	3760	6280	5230	4650	4270	3980	3760	6090	5120	4620	4270	3980	3760	5710	4800	4340	4040	38							

Table 45.4: Red Stag GLT_h10 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Light Configuration						GL10						25°-45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126x88	3030	2470	2180	1990	1850	1750	3030	2470	2180	1990	1850	1750	3030	2470	2180	1990	1850	1750	3030	2470	2180	1990	1850	1750	3030	2470	2160	1970	1820	1720
168x88	3980	3270	2890	2640	2460	2320	3980	3270	2890	2640	2460	2320	3980	3270	2890	2640	2460	2320	3980	3270	2890	2640	2460	2320	3980	3270	2890	2620	2430	2290
210x88	4890	4050	3590	3290	3070	2890	4890	4050	3590	3290	3070	2890	4890	4050	3590	3290	3070	2890	4890	4050	3590	3290	3070	2890	4890	4050	3590	3280	3040	2860
252x88	5780	4820	4280	3930	3670	3460	5780	4820	4280	3930	3670	3460	5780	4820	4280	3930	3670	3460	5780	4820	4280	3930	3670	3460	5780	4820	4140	3850	3640	3440
294x88	6650	5570	4970	4560	4260	4030	6650	5570	4970	4560	4260	4030	6650	5570	4970	4560	4260	4030	6650	5570	4970	4560	4260	4030	6650	5570	4640	4320	4090	3900
336x88	7490	6320	5640	5190	4850	4590	7490	6320	5640	5190	4850	4590	7490	6320	5640	5190	4850	4590	7490	6320	5640	5190	4850	4590	7490	6320	4740	4480	4240	4030
378x88	8320	7050	6310	5810	5440	5150	8320	7050	6310	5810	5440	5150	8320	7050	6310	5810	5440	5150	8320	7050	6310	5810	5440	5150	8320	7050	4940	4640	4390	4170
420x88	9120	7770	6970	6430	6020	5700	9120	7770	6970	6430	6020	5700	9120	7770	6970	6430	6020	5700	9120	7770	6970	6430	6020	5700	9120	7770	5350	5000	4720	4470
126x126	3340	2750	2440	2230	2080	1960	3340	2750	2440	2230	2080	1960	3340	2750	2440	2230	2080	1960	3340	2750	2440	2230	2080	1960	3340	2750	2440	2220	2060	1940
168x126	4360	3630	3220	2950	2760	2600	4360	3630	3220	2950	2760	2600	4360	3630	3220	2950	2760	2600	4360	3630	3220	2950	2760	2600	4360	3630	3220	2950	2740	2580
210x126	5340	4480	3990	3670	3430	3240	5340	4480	3990	3670	3430	3240	5340	4480	3990	3670	3430	3240	5340	4480	3990	3670	3430	3240	5340	4480	3950	3670	3430	3230
252x126	6280	5310	4750	4370	4090	3870	6280	5310	4750	4370	4090	3870	6280	5310	4750	4370	4090	3870	6280	5310	4750	4370	4090	3870	6280	5310	4520	4210	3980	3800
294x126	7200	6130	5500	5070	4750	4500	7200	6130	5500	5070	4750	4500	7200	6130	5500	5070	4750	4500	7200	6130	5500	5070	4750	4500	7200	6130	4980	4680	4470	4270
336x126	8080	6930	6240	5760	5400	5120	8080	6930	6240	5760	5400	5120	8080	6930	6240	5760	5400	5120	8080	6930	6240	5760	5400	5120	8080	6930	5890	5620	5380	5170
378x126	8940	7710	6960	6440	6050	5730	8940	7710	6960	6440	6050	5730	8940	7710	6960	6440	6050	5730	8940	7710	6960	6440	6050	5730	8940	7710	6430	6130	5890	5660
420x126	9770	8480	7680	7110	6680	6340	9770	8480	7680	7110	6680	6340	9770	8480	7680	7110	6680	6340	9770	8480	7680	7110	6680	6340	9770	8480	6960	6640	6380	6150

a. All dimension units are in millimeters.

Table 45.5: Red Stag GLT_h12 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Light Configuration						GL12						0°-25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126x88	3450	2810	2480	2260	2110	1990	3450	2810	2480	2260	2110	1990	3450	2810	2480	2260	2110	1990	3450	2770	2420	2190	2040	1920	3270	2600	2270	2060	1910	1800
168x88	4530	3720	3290	3010	2800	2640	4530	3720	3290	3010	2800	2640	4530	3720	3290	3010	2800	2640	4530	3670	3220	2930	2720	2560	4160	3460	3020	2750	2550	2400
210x88	5570	4610	4090	3740	3490	3290	5570	4610	4090	3740	3490	3290	5500	4610	4090	3740	3490	3290	5160	4340	3920	3640	3400	3200	4920	4130	3730	3440	3190	3000
252x88	6580	5480	4870	4470	4170	3940	6580	5480	4870	4470	4170	3940	6300	5300	4790	4460	4170	3940	5910	4970	4490	4180	3950	3780	5640	4740	4280	3980	3770	3600
294x88	7570	6340	5650	5190	4850	4580	7570	6340	5650	5190	4850	4580	7080	5950	5380	5000	4730	4520	6640	5580	5040	4690	4440	4240	6330	5320	4810	4470	4230	4040
336x88	8530	7190	6420	5910	5520	5220	8530	7170	6420	5910	5520	5220	7820	6580	5940	5530	5230	5000	7340	6170	5570	5190	4910	4690	7000	5880	5310	4950	4680	4470
378x88	9470	8020	7180	6610	6190	5860	9470	8020	7180	6610	6190	5860	8550	7190	6490	6040	5710	5460	8020	6740	6090	5670	5360	5120	7640	6430	5810	5400	5110	4880
420x88	10380	8840	7940	7320	6850	6490	10380	8840	7940	7320	6850	6490	9250	7780	7030	6540	6180	5910	8680	7290	6590	6130	5800	5540	8270	6950	6280	5850	5530	5280
126x126	3810	3130	2770	2540	2360	2230	3810	3130	2770	2540	2360	2230	3810	3130	2770	2540	2360	2230	3810	3120	2720	2470	2300	2160	3670	2930	2560	2320	2160	2030
168x126	4960	4130	3670	3360	3140	2960	4960	4130	3670	3360	3140	2960	4960	4130	3670	3360	3140	2960	4960	4010	3520	3300	3060	2880	4550	3820	3410	3100	2880	2710
210x126	6080	5100	4550	4170	3900	3690	6080	5100	4550	4170	3900	3690	6010	5060	4550	4170	3900	3690	5640	4740	4290	3990	3770	3600	5380	4520	4090	3800	3600	3380
252x126	7150	6050	5410	4980	4660	4410	7150	6050	5410	4980	4660	4410	6900	5800	5240	4870	4610	4400	6470	5440	4910	4570	4320	4130	6170	5190	4680	4360	4120	3940
294x126	8190	6970	6260	5770	5410	5120	8190	6970	6260	5770	5410	5120	7740	6510	5880	5470	5180	4940	7260	6110	5520	5130	4850	4640	6920	5820	5260	4890	4630	4420
336x126	9200	7880	7100	6560	6150	5820	9200	7850	7090	6560	6150	5820	8560	7200	6500	6050	5720	5470	8030	6750	6100	5670	5370	5130	7650	6440	5810	5410	5120	4890
378x126	10170	8780	7920	7330	6880	6520	10170	8570	7750	7210	6820	6510	9350	7860	7100	6610	6250	5970	8770	7370	6660	6200	5860	5600	8360	7030	6350	5910	5590	5340
420x126	11120	9650	8740	8100	7610	7220	11120	9280	8380	7800	7380	7050	10120	8510	7690	7150	6760	6460	9490	7980	7210	6710	6350	6060	9050	7610	6870	6400	6050	5780

a. All dimension units are in millimeters.

Table 45.6: Red Stag GLT_h12 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Light Configuration						GL12						25°-45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126x88	3180	2590	2280	2080	1940	1830	3180	2590	2280	2080	1940	1830	3180	2590	2280	2080	1940	1830	3180	2590	2280	2080	1940	1830	3180	2590	2270	2060	1910	1800
168x88	4170	3420	3030	2770	2580	2430	4170	3420	3030	2770	2580	2430	4170	3420	3030	2770	2580	2430	4170	3420	3030	2770	2580	2430	4160	3420	3020	2750	2550	2400
210x88	5130	4240	3760	3440	3210	3030	5130	4240	3760	3440	3210	3030	5130	4240	3760	3440	3210	3030	5130	4240	3760	3440	3210	3030	4920	4130	3730	3440	3190	3000
252x88	6060	5050	4490	4110	3840	3630	6060	5050	4490	4110	3840	3630	6060	5050	4490	4110	3840	3630	5910	4970	4490	4110	3840	3630	5640	4740	4280	3980	3770	3600
294x88	6970	5840	5200																											

Table 45.7: Red Stag GLT_h8 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Heavy Configuration						GL8						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2380	1910	1670	1520	1420	1330	2380	1910	1670	1520	1420	1330	2380	1910	1670	1520	1420	1330	2380	1910	1670	1520	1420	1330	2380	1910	1670	1520	1420	1330
168×88	3150	2540	2230	2030	1890	1780	3150	2540	2230	2030	1890	1780	3150	2540	2230	2030	1890	1780	3150	2540	2230	2030	1890	1780	3150	2540	2230	2030	1890	1780
210×88	3900	3160	2780	2530	2360	2220	3900	3160	2780	2530	2360	2220	3900	3160	2780	2530	2360	2220	3900	3160	2780	2530	2360	2220	3900	3160	2780	2530	2360	2220
252×88	4650	3780	3330	3030	2820	2660	4650	3780	3330	3030	2820	2660	4650	3780	3330	3030	2820	2660	4650	3780	3330	3030	2820	2660	4650	3780	3330	3030	2820	2660
294×88	5380	4390	3870	3530	3290	3100	5380	4390	3870	3530	3290	3100	5380	4390	3870	3530	3290	3100	5380	4390	3870	3530	3290	3100	5380	4390	3870	3530	3290	3100
336×88	6110	5000	4410	4030	3750	3540	6110	5000	4410	4030	3750	3540	6110	5000	4410	4030	3750	3540	6110	5000	4410	4030	3750	3540	6110	5000	4410	4030	3750	3540
378×88	6820	5600	4950	4520	4220	3980	6820	5600	4950	4520	4220	3980	6820	5600	4950	4520	4220	3980	6820	5600	4950	4520	4220	3980	6820	5600	4950	4520	4220	3980
420×88	7530	6200	5490	5020	4680	4410	7530	6200	5490	5020	4680	4410	7530	6200	5490	5020	4680	4410	7530	6200	5490	5020	4680	4410	7530	6200	5490	5020	4680	4410
126×126	2650	2140	1880	1710	1590	1500	2650	2140	1880	1710	1590	1500	2650	2140	1880	1710	1590	1500	2650	2140	1880	1710	1590	1500	2650	2140	1880	1710	1590	1500
168×126	3500	2840	2500	2280	2120	2000	3500	2840	2500	2280	2120	2000	3500	2840	2500	2280	2120	2000	3500	2840	2500	2280	2120	2000	3500	2840	2500	2280	2120	2000
210×126	4330	3530	3110	2840	2650	2490	4330	3530	3110	2840	2650	2490	4330	3530	3110	2840	2650	2490	4330	3530	3110	2840	2650	2490	4330	3530	3110	2840	2650	2490
252×126	5140	4210	3720	3400	3170	2990	5140	4210	3720	3400	3170	2990	5140	4210	3720	3400	3170	2990	5140	4210	3720	3400	3170	2990	5140	4210	3720	3400	3170	2990
294×126	5940	4890	4330	3960	3690	3480	5940	4890	4330	3960	3690	3480	5940	4890	4330	3960	3690	3480	5940	4890	4330	3960	3690	3480	5940	4890	4330	3960	3690	3480
336×126	6720	5560	4930	4510	4210	3970	6720	5560	4930	4510	4210	3970	6720	5560	4930	4510	4210	3970	6720	5560	4930	4510	4210	3970	6720	5560	4930	4510	4210	3970
378×126	7490	6220	5520	5060	4720	4460	7490	6220	5520	5060	4720	4460	7490	6220	5520	5060	4720	4460	7490	6220	5520	5060	4720	4460	7490	6220	5520	5060	4720	4460
420×126	8240	6870	6110	5610	5230	4940	8240	6870	6110	5610	5230	4940	8240	6870	6110	5610	5230	4940	8240	6870	6110	5610	5230	4940	8240	6870	6110	5610	5230	4940

a. All dimension units are in millimeters.

Table 45.8: Red Stag GLT_h8 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Heavy Configuration						GL8						25°–45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2190	1760	1540	1400	1300	1230	2190	1760	1540	1400	1300	1230	2190	1760	1540	1400	1300	1230	2190	1760	1540	1400	1300	1230	2190	1760	1540	1400	1300	1230
168×88	2900	2330	2050	1870	1740	1640	2900	2330	2050	1870	1740	1640	2900	2330	2050	1870	1740	1640	2900	2330	2050	1870	1740	1640	2900	2330	2050	1870	1740	1640
210×88	3590	2910	2560	2330	2170	2040	3590	2910	2560	2330	2170	2040	3590	2910	2560	2330	2170	2040	3590	2910	2560	2330	2170	2040	3590	2910	2560	2330	2170	2040
252×88	4280	3480	3060	2790	2600	2450	4280	3480	3060	2790	2600	2450	4280	3480	3060	2790	2600	2450	4280	3480	3060	2790	2600	2450	4280	3480	3060	2790	2600	2450
294×88	4960	4040	3560	3250	3030	2850	4960	4040	3560	3250	3030	2850	4960	4040	3560	3250	3030	2850	4960	4040	3560	3250	3030	2850	4960	4040	3560	3250	3030	2850
336×88	5620	4600	4060	3710	3450	3260	5620	4600	4060	3710	3450	3260	5620	4600	4060	3710	3450	3260	5620	4600	4060	3710	3450	3260	5620	4600	4060	3710	3450	3260
378×88	6280	5150	4560	4160	3880	3660	6280	5150	4560	4160	3880	3660	6280	5150	4560	4160	3880	3660	6280	5150	4560	4160	3880	3660	6280	5150	4560	4160	3880	3660
420×88	6930	5710	5050	4620	4310	4060	6930	5710	5050	4620	4310	4060	6930	5710	5050	4620	4310	4060	6930	5710	5050	4620	4310	4060	6930	5710	5050	4620	4310	4060
126×126	2440	1970	1730	1580	1470	1380	2440	1970	1730	1580	1470	1380	2440	1970	1730	1580	1470	1380	2440	1970	1730	1580	1470	1380	2440	1970	1730	1580	1470	1380
168×126	3220	2610	2300	2100	1950	1840	3220	2610	2300	2100	1950	1840	3220	2610	2300	2100	1950	1840	3220	2610	2300	2100	1950	1840	3220	2610	2300	2100	1950	1840
210×126	3980	3250	2870	2620	2440	2300	3980	3250	2870	2620	2440	2300	3980	3250	2870	2620	2440	2300	3980	3250	2870	2620	2440	2300	3980	3250	2870	2620	2440	2300
252×126	4730	3880	3430	3130	2920	2750	4730	3880	3430	3130	2920	2750	4730	3880	3430	3130	2920	2750	4730	3880	3430	3130	2920	2750	4730	3880	3430	3130	2920	2750
294×126	5470	4500	3980	3640	3400	3200	5470	4500	3980	3640	3400	3200	5470	4500	3980	3640	3400	3200	5470	4500	3980	3640	3400	3200	5470	4500	3980	3640	3400	3200
336×126	6190	5110	4530	4150	3860	3660	6190	5110	4530	4150	3870	3660	6190	5110	4530	4150	3870	3660	6190	5110	4530	4150	3870	3660	6190	5110	4530	4150	3870	3660
378×126	6890	5720	5080	4660	4350	4100	6890	5720	5080	4660	4350	4100	6890	5720	5080	4660	4350	4100	6890	5720	5080	4660	4350	4100	6890	5720	5080	4660	4350	4100
420×126	7590	6330	5630	5160	4820	4550	7590	6330	5630	5160	4820	4550	7590	6330	5630	5160	4820	4550	7590	6330	5630	5160	4820	4550	7590	6330	5630	5160	4820	4550

a. All dimension units are in millimeters.

Table 45.9: Red Stag GLT_h10 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Heavy Configuration						GL10						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2560	2060	1800	1640	1530	1440	2560	2060	1800	1640	1530	1440	2560	2060	1800	1640	1530	1440	2560	2060	1800	1640	1530	1440	2560	2060	1800	1640	1530	1440
168×88	3390	2730	2400	2190	2030	1920	3390	2730	2400	2190	2030	1920	3390	2730	2400	2190	2030	1920	3390	2730	2400	2190	2030	1920	3390	2730	2400	2190	2030	1920
210×88	4200	3400	2990	2730	2540	2390	4200	3400	2990	2730	2540	2390	4200	3400	2990	2730	2540	2390	4200	3400	2990	2730	2540	2390	4200	3400	2990	2730	2540	2390
252×88	5010	4070	3580	3270	3040	2870	5010	4070	3580	3270	3040	2870	5010	4070	3580	3270	3040	2870	5010	4070	3580	3270	3040	2870	5010	4070	3580	3270	3040	2870
294×88	5800	4730	4170	3810	354																									

Table 45.10: Red Stag GLT_h10 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Heavy Configuration						GL10						25°–45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2360	1890	1660	1510	1400	1320	2360	1890	1660	1510	1400	1320	2360	1890	1660	1510	1400	1320	2360	1890	1660	1510	1400	1320	2360	1890	1660	1510	1400	1320
168×88	3120	2520	2210	2010	1870	1760	3120	2520	2210	2010	1870	1760	3120	2520	2210	2010	1870	1760	3120	2520	2210	2010	1870	1760	3120	2520	2210	2010	1870	1760
210×88	3870	3130	2760	2510	2340	2200	3870	3130	2760	2510	2340	2200	3870	3130	2760	2510	2340	2200	3870	3130	2760	2510	2340	2200	3870	3130	2760	2510	2340	2200
252×88	4610	3740	3300	3010	2800	2640	4610	3740	3300	3010	2800	2640	4610	3740	3300	3010	2800	2640	4610	3740	3300	3010	2800	2640	4610	3740	3300	3010	2800	2640
294×88	5340	4350	3840	3500	3260	3080	5340	4350	3840	3500	3260	3080	5340	4350	3840	3500	3260	3080	5340	4350	3840	3500	3260	3080	5340	4350	3840	3500	3260	3080
336×88	6060	4950	4370	4000	3720	3510	6060	4950	4370	4000	3720	3510	6060	4950	4370	4000	3720	3510	6060	4950	4370	4000	3720	3510	6060	4950	4370	4000	3720	3510
378×88	6770	5550	4910	4490	4180	3940	6770	5550	4910	4490	4180	3940	6770	5550	4910	4490	4180	3940	6770	5550	4910	4490	4180	3940	6770	5550	4910	4490	4180	3940
420×88	7460	6150	5440	4980	4640	4380	7460	6150	5440	4980	4640	4380	7460	6150	5440	4980	4640	4380	7460	6150	5440	4980	4640	4380	7460	6150	5440	4980	4640	4380
126×126	2630	2120	1870	1700	1580	1490	2630	2120	1870	1700	1580	1490	2630	2120	1870	1700	1580	1490	2630	2120	1870	1700	1580	1490	2630	2120	1870	1700	1580	1490
168×126	3470	2820	2480	2260	2100	1980	3470	2820	2480	2260	2100	1980	3470	2820	2480	2260	2100	1980	3470	2820	2480	2260	2100	1980	3470	2820	2480	2260	2100	1980
210×126	4290	3500	3090	2820	2620	2470	4290	3500	3090	2820	2620	2470	4290	3500	3090	2820	2620	2470	4290	3500	3090	2820	2620	2470	4290	3500	3090	2820	2620	2470
252×126	5100	4180	3690	3370	3140	2960	5100	4180	3690	3370	3140	2960	5100	4180	3690	3370	3140	2960	5100	4180	3690	3370	3140	2960	5100	4180	3690	3370	3140	2960
294×126	5890	4850	4290	3920	3660	3450	5890	4850	4290	3920	3660	3450	5890	4850	4290	3920	3660	3450	5890	4850	4290	3920	3660	3450	5890	4850	4290	3920	3660	3450
336×126	6660	5510	4890	4470	4170	3940	6660	5510	4890	4470	4170	3940	6660	5510	4890	4470	4170	3940	6660	5510	4890	4470	4170	3940	6660	5510	4890	4470	4170	3940
378×126	7430	6170	5480	5020	4680	4420	7430	6170	5480	5020	4680	4420	7430	6170	5480	5020	4680	4420	7430	6170	5480	5020	4680	4420	7430	6170	5480	5020	4680	4420
420×126	8180	6820	6060	5560	5190	4900	8180	6820	6060	5560	5190	4900	8180	6820	6060	5560	5190	4900	8180	6820	6060	5560	5190	4900	8180	6820	6060	5560	5190	4900

a. All dimension units are in millimeters.

Table 45.11: Red Stag GLT_h12 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Heavy Configuration						GL12						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2680	2160	1890	1720	1600	1510	2680	2160	1890	1720	1600	1510	2680	2160	1890	1720	1600	1510	2680	2160	1890	1720	1600	1510	2680	2160	1890	1720	1600	1510
168×88	3560	2860	2520	2290	2130	2010	3560	2860	2520	2290	2130	2010	3560	2860	2520	2290	2130	2010	3560	2860	2520	2290	2130	2010	3560	2860	2520	2290	2130	2010
210×88	4400	3570	3140	2860	2660	2510	4400	3570	3140	2860	2660	2510	4400	3570	3140	2860	2660	2510	4400	3570	3140	2860	2660	2510	4400	3570	3140	2860	2660	2510
252×88	5250	4260	3750	3420	3190	3000	5250	4260	3750	3420	3190	3000	5250	4260	3750	3420	3190	3000	5250	4260	3750	3420	3190	3000	5250	4260	3750	3420	3190	3000
294×88	6080	4950	4370	3990	3710	3500	6080	4950	4370	3990	3710	3500	6080	4950	4370	3990	3710	3500	6080	4950	4370	3990	3710	3500	6080	4950	4370	3990	3710	3500
336×88	6890	5640	4980	4550	4240	4000	6890	5640	4980	4550	4240	4000	6890	5640	4980	4550	4240	4000	6890	5640	4980	4550	4240	4000	6890	5640	4980	4550	4240	4000
378×88	7700	6320	5590	5110	4760	4490	7700	6320	5590	5110	4760	4490	7700	6320	5590	5110	4760	4490	7700	6320	5590	5110	4760	4490	7700	6320	5590	5110	4760	4490
420×88	8500	7000	6190	5660	5280	4980	8500	7000	6190	5660	5280	4980	8500	7000	6190	5660	5280	4980	8500	7000	6190	5660	5280	4980	8500	7000	6190	5660	5280	4980
126×126	2990	2420	2120	1930	1800	1690	2990	2420	2120	1930	1800	1690	2990	2420	2120	1930	1800	1690	2990	2420	2120	1930	1800	1690	2990	2420	2120	1930	1800	1690
168×126	3950	3210	2820	2570	2390	2260	3950	3210	2820	2570	2390	2260	3950	3210	2820	2570	2390	2260	3950	3210	2820	2570	2390	2260	3950	3210	2820	2570	2390	2260
210×126	4880	3980	3510	3210	2990	2820	4880	3980	3510	3210	2990	2820	4880	3980	3510	3210	2990	2820	4880	3980	3510	3210	2990	2820	4880	3980	3510	3210	2990	2820
252×126	5800	4760	4200	3840	3580	3370	5800	4760	4200	3840	3580	3370	5800	4760	4200	3840	3580	3370	5800	4760	4200	3840	3580	3370	5800	4760	4200	3840	3580	3370
294×126	6700	5520	4880	4470	4160	3930	6700	5520	4880	4470	4160	3930	6700	5520	4880	4470	4160	3930	6700	5520	4880	4470	4160	3930	6700	5520	4880	4470	4160	3930
336×126	7580	6270	5560	5090	4750	4480	7580	6270	5560	5090	4750	4480	7580	6270	5560	5090	4750	4480	7580	6270	5560	5090	4750	4480	7580	6270	5560	5090	4750	4480
378×126	8450	7020	6230	5710	5330	5030	8450	7020	6230	5710	5330	5030	8450	7020	6230	5710	5330	5030	8450	7020	6230	5710	5330	5030	8450	7020	6230	5710	5330	5030
420×126	9300	7760	6900	6330	5910	5580	9300	7760	6900	6330	5910	5580	9300	7760	6900	6330	5910	5580	9300	7760	6900	6330	5910	5580	9300	7760	6900	6330	5910	5580

a. All dimension units are in millimeters.

Table 45.12: Red Stag GLT_h12 Ridge Beam Span Table ^a

GLT _h Ridge Beams						Heavy Configuration						GL12						25°–45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2470	1980	1740	1580	1470	1390	2470	1980	1740	1580	1470	1390	2470	1980	1740	1580	1470	1390	2470	1980	1740	1580	1470	1390	2470	1980	1740	1580	1470	1390
168×88	3270	2640	2310	2110	1960	1850	3270	2640	2310	2110	1960	1850	3270	2640	2310	2110	1960	1850	3270	2640	2310	2110	1960	1850	3270	2640	2310	2110	1960	1850
210×88	4050	3280	2890	2630	2450	2310	4050	3280	2890	2630	2450	2310	4050	3280	2890	2630	2450	2310	4050	3280	2890	2630	2450	2310	4050	3280	2890	2630	2450	2310
252×88	4830	3920	3460	3150	2930	2760	4830	3920	3460	3150	2930	2760	4830	3920	3460	3150	2930	2760	4830	3920	3460	3150	2930	2760	4830	3920	3460	3150	2930	2760
294×88	5590	4580	4020	36																										

Table 46.1: Red Stag Vertix₁₀ Ridge Beam Span Table ^a

Vertex Ridge Beams						Light Configuration						Vertex ₁₀						0°-25°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88x88	2270	1840	1620	1470	1370	1290	2270	1840	1620	1470	1370	1290	2270	1840	1620	1470	1370	1290	2260	1790	1560	1420	1320	1240	2120	1680	1470	1330	1240	1160	
140x88	3540	2890	2550	2330	2170	2050	3540	2890	2550	2330	2170	2050	3540	2890	2550	2330	2170	2050	3540	2850	2490	2260	2100	1980	3380	2680	2340	2120	1970	1850	
190x88	4710	3890	3440	3150	2940	2770	4710	3890	3440	3150	2940	2770	4710	3890	3440	3150	2940	2770	4520	3800	3380	3070	2850	2690	4310	3630	3180	2890	2680	2520	
240x88	5840	4860	4320	3960	3690	3490	5840	4860	4320	3960	3690	3490	5840	4830	4320	3960	3690	3490	5390	4530	4090	3810	3600	3390	5140	4320	3900	3630	3380	3180	
290x88	6940	5810	5180	4750	4440	4200	6940	5810	5180	4750	4440	4200	6620	5570	5030	4680	4430	4200	6210	5220	4720	4390	4150	3970	5920	4980	4500	4190	3960	3780	
300x88	7150	6000	5350	4910	4590	4340	7150	6000	5350	4910	4590	4340	6790	5710	5160	4800	4540	4340	6370	5360	4840	4510	4260	4070	6080	5110	4620	4300	4060	3880	
315x88	7470	6280	5610	5150	4810	4550	7470	6280	5610	5150	4810	4550	7050	5930	5350	4980	4710	4500	6610	5560	5020	4670	4420	4220	6300	5300	4790	4460	4210	4030	
350x88	8210	6930	6200	5700	5330	5050	8210	6930	6200	5700	5330	5050	7630	6410	5790	5390	5100	4870	7160	6020	5440	5060	4780	4570	6820	5740	5180	4820	4560	4360	
360x88	8420	7120	6370	5860	5480	5190	8420	7120	6370	5860	5480	5190	7790	6550	5920	5510	5210	4980	7310	6140	5550	5170	4890	4670	6970	5860	5290	4930	4660	4450	
400x88	9240	7850	7040	6480	6070	5750	9240	7730	6990	6480	6070	5750	8430	7090	6410	6040	5750	5490	8040	6650	6010	5590	5290	5050	7540	6340	5730	5330	5040	4820	
405x88	9340	7940	7120	6560	6140	5810	9280	7800	7050	6560	6140	5810	8510	7160	6470	6100	5800	5540	7980	6710	6070	5640	5340	5100	7610	6400	5780	5380	5090	4860	
450x88	10240	8750	7860	7250	6800	6440	10050	8450	7630	7100	6720	6420	9210	7750	7000	6510	6160	5880	8640	7270	6560	6110	5780	5520	8240	6930	6260	5820	5510	5260	
495x88	11110	9540	8600	7940	7450	7060	10790	9070	8200	7630	7210	6890	9890	8320	7520	6990	6620	6320	9280	7800	7050	6560	6210	5930	8850	7440	6720	6260	5920	5650	
500x88	11210	9630	8680	8020	7520	7130	10870	9140	8260	7690	7270	6940	9970	8380	7570	7050	6670	6370	9350	7860	7100	6610	6250	5970	8920	7500	6770	6300	5960	5700	
540x88	11970	10330	9330	8630	8100	7680	11520	9680	8750	8140	7700	7360	10560	8880	8020	7470	7060	6750	10060	8330	7500	7000	6620	6330	7940	7180	6600	6320	6030		
550x88	12160	10500	9490	8780	8240	7820	11680	9820	8870	8260	7810	7460	10710	9000	8140	7570	7160	6840	10050	8450	7630	7100	6720	6420	8050	7280	6770	6400	6120		
595x88	13000	11200	10120	9420	8880	8430	12390	10420	9410	8760	8280	7910	11360	9550	8630	8030	7590	7260	10660	8960	8100	7530	7120	6810	10160	8540	7720	7180	6790	6490	
600x88	13090	11270	10180	9480	8950	8500	12470	10480	9470	8810	8330	7960	11430	9610	8680	8080	7640	7300	10720	9020	8150	7580	7170	6850	10220	8600	7770	7230	6840	6530	
126x126	3530	2910	2570	2350	2190	2070	3530	2910	2570	2350	2190	2070	3530	2910	2570	2350	2190	2070	3530	2900	2530	2300	2130	2010	3420	2720	2370	2160	2000	1880	
250x126	6590	5570	4980	4590	4290	4060	6590	5570	4980	4590	4290	4060	6480	5450	4920	4580	4290	4060	6080	5110	4620	4300	4060	3880	5800	4870	4400	4100	3880	3700	
300x126	7740	6600	5920	5460	5120	4850	7740	6600	5920	5460	5120	4850	7430	6250	5650	5250	4970	4750	6970	5860	5300	4930	4660	4450	6650	5590	5050	4700	4440	4250	
350x126	8840	7600	6850	6330	5930	5620	8840	7600	6850	6330	5930	5620	8340	7020	6340	5900	5580	5330	7830	6580	5950	5530	5230	5000	7460	6280	5670	5280	4990	4770	
400x126	9910	8570	7750	7180	6740	6390	9910	8570	7750	7180	6740	6390	9220	7760	7010	6520	6170	5890	8650	7280	6650	6120	5780	5530	8250	6940	6270	5830	5520	5270	
450x126	10940	9530	8640	8020	7540	7160	10940	9240	8350	7770	7350	7020	10080	8470	7660	7120	6740	6440	9450	7950	7180	6680	6320	6040	9010	7580	6850	6370	6030	5760	
500x126	11950	10470	9520	8850	8330	7910	11890	10000	9040	8410	7950	7600	10910	9170	8290	7710	7290	6970	10230	8600	7770	7230	6840	6530	9750	8200	7410	6900	6520	6230	
550x126	12930	11380	10390	9660	9110	8660	12770	10740	9710	9030	8540	8160	12710	10780	9800	9050	8280	7830	11710	10090	9240	8350	7770	7350	7020	10480	8810	7960	7410	7000	6690
600x126	13880	12280	11140	10370	9800	9370	13640	11470	10360	9640	9120	8710	12500	10510	9600	8840	8360	7990	11730	9860	8910	8290	7840	7490	11180	9400	8500	7910	7480	7140	
650x126	14810	13090	11830	11010	10410	9950	14480	12180	11000	10240	9680	9250	13280	11170	10090	9390	8880	8480	12460	10470	9460	8810	8330	7960	11880	9990	9020	8400	7940	7590	
700x126	15720	13840	12510	11640	11010	10520	15310	12870	11630	10820	10240	9780	14040	11800	10670	9920	9390	8970	13170	11070	10000	9310	8800	8410	12560	10560	9540	8880	8390	8020	
750x126	16500	14580	13170	12260	11590	11070	16120	13560	12250	11400	10780	10300	14780	12430	11230	10450	9880	9440	13870	11660	10540	9800	9270	8860	13220	11120	10050	9350	8840	8450	
800x126	16500	15300	13820	12870	12170	11620	16500	14230	12860	11960	11310	10810	15520	13050	11790	10970	10380	9910	14560	12240	11060	10290	9730	9300	13880	11670	10540	9810	9280	8870	
850x126	16500	16010	14470	13460	12730	12170	16500	14890	13450	12520	11840	11310	16240	13650	12340	11480	10860	10370	15230	12810	11570	10770	10190	9730	14520	12210	11030	10270	9710	9280	
900x126	16500	16500	15100	14050	13290	12700	16500	15540	14040	13070	12360	11810	16500	14250	12880	11980	11330	10830	15900	13370	12080	11240	10630	10160	15160	12750	11520	10720	10140	9680	
950x126	16500	16500	15730	14640	13840	13220	16500	16190	14630	13610	12870	12320	16500	14840	13410	12800	12480	11800	16500	13920	12580	11710	11070	10580	15790	13280	12000	11160	10560	10090	
1000x126	16500	16500	16340	15210	14380	13740	16500	16500	15200	14140	13380	12780	16500	15430	13940	12970	12270	11720	16500	14470	13070	12170	11510	10990	16410	13800	12470	11600	10970	10480	
210x210	6290	5400	4870	4500	4220	4000	6290	5400	4870	4500	4220	4000	6290	5400	4870	4500	4220	4000	6060	5100	4610	4290	4050	3870	4860	4390	4090	3860	3690		
400x210	10750	9570	8790	8210	7750	7390	10750	9570	8680	8210	7640	7300	10480	8810	7960	7410	7010	6700	9830	8810	8270	7470	6950	6570	6280	9370	7880	7120	6630	6270	5990
450x210	11820	10590	9760	9130	8640	8250	11820	10500	9490	8830	8350	7980	11450	9630	8700	8100	7660	7310	10740	9030	8160	7590	7180	6860	10240	8610	7780	7240	6850	6540	
500x210	12850	11580	10710	10040	9520	9090	12850	11360	10270	9550	9040	8630	12390	10420	9410	8760	8290	7920	12390	10420	9410	8760	8290	7920	11620	9770	8830	8220	7770	7430	
550x210	13840	12550	11640	10940	10390	9930	13840	12210	11030	10280	9710	9270	13310	11190	10110	9410	8900	8500	12490	10500	9490	8830	8350	7980	11900	10010	9040	8420	7960	7600	

Table 46.2: Red Stag Vertex₁₀ Ridge Beam Span Table ^a

Vertex Ridge Beams						Light Configuration						Vertex ₁₀						25°-45°													
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88x88	2090	1690	1490	1360	1260	1190	2090	1690	1490	1360	1260	1190	2090	1690	1490	1360	1260	1190	2090	1690	1490	1360	1260	1190	2090	1680	1470	1330	1240	1160	
140x88	3260	2660	2350	2150	2000	1880	3260	2660	2350	2150	2000	1880	3260	2660	2350	2150	2000	1880	3260	2660	2350	2150	2000	1880	3260	2660	2340	2120	1970	1860	
190x88	4340	3580	3170	2900	2700	2550	4340	3580	3170	2900	2700	2550	4340	3580	3170	2900	2700	2550	4340	3580	3170	2900	2700	2550	4340	3580	3170	2890	2680	2520	
240x88	5380	4470	3970	3640	3400	3210	5380	4470	3970	3640	3400	3210	5380	4470	3970	3640	3400	3210	5380	4470	3970	3640	3400	3210	5140	4320	3900	3630	3380	3180	
290x88	6390	5350	4770	4380	4090	3860	6390	5350	4770	4380	4090	3860	6390	5350	4770	4380	4090	3860	6210	5220	4720	4380	4090	3860	5920	4980	4500	4190	3960	3780	
300x88	6590	5520	4920	4520	4230	4000	6590	5520	4920	4520	4230	4000	6590	5520	4920	4520	4230	4000	6370	5360	4840	4510	4230	4000	6080	5110	4620	4300	4060	3880	
315x88	6880	5780	5160	4740	4430	4190	6880	5780	5160	4740	4430	4190	6880	5780	5160	4740	4430	4190	6610	5560	5020	4670	4420	4190	6300	5300	4790	4460	4210	4030	
350x88	7560	6380	5710	5250	4910	4640	7560	6380	5710	5250	4910	4640	7560	6380	5710	5250	4910	4640	7160	6020	5440	5060	4780	4570	6820	5740	5180	4820	4560	4360	
360x88	7750	6550	5860	5390	5050	4770	7750	6550	5860	5390	5050	4770	7750	6550	5860	5390	5050	4770	7310	6140	5550	5170	4890	4670	6970	5860	5290	4930	4660	4450	
400x88	8500	7220	6480	5970	5590	5290	8500	7220	6480	5970	5590	5290	8500	7220	6480	5970	5590	5290	7910	6650	6010	5590	5050	4750	7540	6340	5730	5330	5040	4820	
405x88	8600	7310	6550	6040	5650	5350	8600	7310	6550	6040	5650	5350	8600	7310	6550	6040	5650	5350	7980	6710	6070	5640	5340	5100	7610	6400	5780	5380	5090	4860	
450x88	9420	8050	7240	6680	6260	5930	9420	8050	7240	6680	6260	5930	9420	8050	7240	6680	6260	5930	9210	7750	7000	6510	6160	5880	8640	7270	6560	6110	5780	5520	5260
495x88	10230	8790	7920	7310	6860	6500	10230	8790	7920	7310	6860	6500	9890	8320	7520	6990	6620	6320	9280	7800	7050	6560	6210	5930	8850	7440	6720	6260	5920	5650	
500x88	10320	8870	7990	7380	6930	6560	10320	8870	7990	7380	6930	6560	9970	8380	7570	7050	6670	6370	9350	7860	7100	6610	6250	5970	8920	7500	6770	6300	5960	5700	
540x88	11020	9510	8590	7940	7450	7070	11020	9510	8590	7940	7450	7070	10560	8880	8020	7470	7060	6750	9910	8330	7530	7000	6620	6330	9450	7940	7180	6680	6320	6030	
550x88	11200	9670	8730	8080	7590	7190	11200	9670	8730	8080	7590	7190	10710	9000	8140	7570	7160	6840	10050	8450	7630	7100	6720	6420	9580	8050	7280	6770	6400	6120	
595x88	11970	10380	9390	8700	8180	7760	11970	10380	9390	8700	8180	7760	11360	9550	8630	8030	7590	7260	10660	8960	8100	7530	7120	6810	10160	8540	7720	7180	6790	6490	
600x88	12050	10460	9470	8770	8240	7820	12050	10460	9470	8770	8240	7820	11430	9610	8680	8080	7640	7300	10720	9020	8150	7580	7170	6850	10220	8600	7770	7230	6840	6530	
126x126	3250	2680	2370	2170	2020	1910	3250	2680	2370	2170	2020	1910	3250	2680	2370	2170	2020	1910	3250	2680	2370	2170	2020	1910	3250	2680	2370	2160	2000	1880	
250x126	6070	5130	4590	4220	3950	3740	6070	5130	4590	4220	3950	3740	6070	5130	4590	4220	3950	3740	6070	5110	4590	4220	3950	3740	5800	4870	4400	4100	3880	3700	
300x126	7120	6070	5450	5030	4710	4460	7120	6070	5450	5030	4710	4460	7120	6070	5450	5030	4710	4460	6970	5860	5300	4930	4660	4450	6650	5590	5050	4700	4440	4250	
350x126	8140	6990	6300	5820	5460	5180	8140	6990	6300	5820	5460	5180	8140	6990	6300	5820	5460	5180	7830	6580	5950	5530	5230	5000	7460	6280	5670	5280	4990	4770	
400x126	9120	7890	7140	6610	6210	5890	9120	7890	7140	6610	6210	5890	9120	7760	7010	6520	6170	5890	8650	7280	6570	6120	5780	5530	6940	5750	5130	4730	4450	4270	
450x126	10070	8770	7960	7380	6940	6590	10070	8770	7960	7380	6940	6590	10070	8470	7660	7120	6740	6440	9450	7950	7180	6680	6320	6040	9010	7580	6850	6370	6030	5760	
500x126	11000	9630	8770	8140	7670	7290	11000	9630	8770	8140	7670	7290	10910	9170	8290	7710	7290	6970	10230	8600	7770	7230	6840	6530	9750	8200	7410	6900	6520	6230	
550x126	11900	10480	9560	8900	8390	7980	11900	10480	9560	8900	8390	7980	11710	9850	8960	8280	7830	7480	10990	9240	8350	7770	7350	7020	10480	8810	7960	7410	7000	6690	
600x126	12780	11310	10340	9640	9100	8660	12780	11310	10340	9640	9100	8660	12500	10510	9500	8840	8360	7990	11730	9960	8910	8290	7840	7490	11180	9400	8500	7910	7480	7140	
650x126	13640	12120	11120	10380	9800	9340	13640	12120	11100	10240	9680	9250	13280	11170	10090	9390	8880	8480	12460	10470	9460	8810	8330	7960	11880	9990	9020	8400	7940	7590	
700x126	14470	12920	11880	11100	10500	10010	14470	12870	11630	10820	10240	9780	14040	11800	10670	9920	9390	8970	13170	11070	10000	9310	8800	8410	12560	10560	9540	8880	8390	8020	
750x126	15290	13710	12630	11820	11190	10670	15290	13560	12250	11400	10780	10300	14780	12430	11230	10450	9880	9440	13870	11660	10540	9800	9270	8860	13220	11120	10050	9350	8840	8450	
800x126	16100	14480	13370	12530	11870	11330	16100	14230	12860	11960	11310	10810	15520	13050	11790	10970	10380	9910	14560	12240	11060	10290	9730	9300	13880	11670	10540	9810	9280	8870	
850x126	16500	15240	14100	13230	12550	11990	16500	14890	13450	12520	11840	11310	16240	13650	12340	11480	10860	10370	15230	12810	11570	10770	10190	9730	14520	12210	11030	10270	9710	9280	
900x126	16500	16000	14820	13930	13220	12640	16500	15540	14040	13070	12360	11810	16500	14250	12880	11980	11330	10830	15900	13370	12080	11240	10630	10160	15160	12750	11520	10720	10140	9680	
950x126	16500	16500	15530	14620	13840	13220	16500	16190	14630	13610	12870	12300	16500	14840	13410	12480	11800	11280	16500	13920	12580	11710	11070	10580	15790	13280	12000	11160	10560	10090	
1000x126	16500	16500	16240	15210	14380	13740	16500	16500	15200	14140	13380	12780	16500	15430	13940	12970	12270	11720	16500	14470	13070	12170	11510	10990	16410	13800	12470	11600	10970	10480	
210x210	5790	4970	4480	4140	3880	3680	5790	4970	4480	4140	3880	3680	5790	4970	4480	4140	3880	3680	5790	4970	4480	4140	3880	3680	5780	4860	4390	4090	3860	3680	
400x210	9900	8810	8090	7550	7140	6800	9900	8810	8090	7550	7140	6800	9900	8810	8090	7550	7140	6800	9900	8830	8270	7470	6950	6570	6280	9370	7880	7120	6630	6270	5990
450x210	10880	9750	8980	8410	7960	7590	10880	9750	8980	8410	7960	7590	10880	9630	8700	8100	7660	7310	10740	9030	8160	7590	7180	6860	10240	8610	7780	7240	6850	6540	
500x210	11830	10660	9860	9250	8770	8370	11830	10660	9860	9250	8770	8370	11830	10420	9410	8760	8290	7920	11620	9770	8830	8220	7770	7430	11080	9320	8420	7840	7410	7080	
550x210	12740	11550	10710	10070	9560	9140	12740	11550	10710	10070	9560	9140	12740	11190	10110	9410	8900	8500	12490	10500	9490	8830	8350	7980	11900	10010	9040	8420	7960	7600	

Table 46.3: Red Stag Vertix₂₀ Ridge Beam Span Table ^a

Vertex Ridge Beams		Light Configuration										Vertex ₂₀										0°–25°									
Beam Size	Wind Zone																														
	Low						Medium						High						Very High						Extra High						
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88x88	2460	1990	1750	1600	1480	1400	2460	1990	1750	1600	1480	1400	2460	1990	1750	1600	1480	1400	2450	1940	1700	1540	1430	1340	2300	1820	1590	1450	1340	1260	
140x88	3840	3140	2770	2530	2350	2220	3840	3140	2770	2530	2350	2220	3840	3140	2770	2530	2350	2220	3820	3090	2700	2450	2280	2140	3640	2900	2530	2300	2140	2010	
190x88	5110	4210	3730	3410	3180	3000	5110	4210	3730	3410	3180	3000	5110	4210	3730	3410	3180	3000	4800	4040	3650	3330	3090	2910	4580	3850	3440	3130	2900	2730	
240x88	6330	5260	4680	4290	4000	3780	6330	5260	4680	4290	4000	3780	6100	5130	4640	4290	4000	3780	4800	4040	3650	3330	3090	2910	4580	3850	3440	3130	2900	2730	
290x88	7520	6300	5610	5150	4810	4550	7520	6300	5610	5150	4810	4550	7030	5910	5340	4970	4700	4490	6600	5550	5010	4660	4410	4210	6290	5290	4780	4450	4210	4020	
300x88	7750	6500	5800	5320	4970	4700	7750	6500	5800	5320	4970	4700	7220	6070	5480	5100	4820	4610	6770	5690	5140	4780	4520	4320	6450	5430	4900	4560	4310	4120	
315x88	8100	6810	6070	5580	5220	4930	8100	6810	6070	5580	5220	4930	7490	6290	5690	5290	5000	4780	7020	5900	5330	4960	4690	4480	6690	5630	5090	4730	4480	4280	
350x88	8900	7510	6720	6180	5780	5470	8830	7430	6710	6180	5780	5470	8100	6810	6150	5730	5420	5170	7600	6390	5770	5370	5080	4850	7250	6090	5500	5120	4840	4630	
360x88	9120	7710	6900	6350	5940	5620	9020	7590	6860	6350	5940	5620	8270	6960	6290	5850	5530	5280	7760	6530	5900	5490	5190	4960	7400	6220	5620	5230	4950	4730	
400x88	10010	8500	7620	7020	6580	6220	9770	8210	7420	6900	6530	6220	8950	7530	6800	6330	5990	5720	8400	7060	6380	5940	5620	5370	8010	6730	6080	5660	5350	5120	
405x88	10120	8600	7710	7110	6660	6300	9880	8290	7490	6970	6590	6300	9040	7600	6870	6390	6040	5770	8480	7130	6440	5990	5670	5420	8080	6800	6140	5710	5400	5160	
450x88	11090	9480	8520	7860	7370	6980	10670	8970	8100	7540	7130	6810	9780	8230	7430	6920	6540	6250	9180	7720	6970	6490	6130	5860	8750	7360	6650	6190	5850	5590	
495x88	12040	10340	9320	8610	8070	7650	11460	9640	8710	8100	7660	7320	10510	8840	7980	7430	7030	6710	9860	8290	7490	6970	6590	6300	9400	7900	7140	6640	6280	6000	
500x88	12150	10440	9400	8690	8150	7730	11550	9710	8770	8160	7720	7380	10590	8900	8040	7480	7080	6760	9930	8350	7540	7020	6640	6340	9470	7960	7190	6690	6330	6050	
540x88	12970	11060	9980	9300	8770	8320	12230	10290	9290	8650	8180	7810	11220	9430	8520	7930	7500	7160	10520	8850	7990	7440	7030	6720	10030	8430	7620	7090	6710	6410	
550x88	13180	11210	10130	9430	8920	8470	12400	10430	9420	8770	8290	7920	11370	9560	8640	8040	7600	7260	10670	8970	8100	7540	7130	6810	10170	8550	7730	7190	6800	6500	
595x88	14090	11890	10750	10000	9460	9040	13160	11060	9990	9300	8800	8400	12060	10140	9160	8530	8070	7710	11320	9510	8600	8000	7570	7230	10790	9070	8200	7630	7210	6890	
600x88	14190	11970	10820	10060	9520	9090	13240	11130	10060	9360	8850	8460	12140	10210	9220	8580	8120	7750	11390	9570	8650	8050	7610	7270	10860	9130	8250	7680	7260	6940	
126x126	3830	3150	2790	2550	2380	2240	3830	3150	2790	2550	2380	2240	3830	3150	2790	2550	2380	2240	3830	3140	2740	2490	2310	2170	3680	2940	2570	2340	2170	2040	
250x126	7140	6040	5400	4970	4650	4400	7140	6040	5400	4970	4650	4400	6880	5790	5230	4870	4600	4400	6460	5430	4910	4560	4320	4120	6160	5180	4680	4350	4120	3930	
300x126	8380	7150	6420	5920	5540	5250	8380	7150	6420	5920	5540	5250	7890	6640	6000	5580	5280	5040	7400	6230	5630	5230	4950	4730	7060	5940	5360	4990	4720	4510	
350x126	9580	8230	7420	6850	6430	6090	9580	8130	7340	6830	6430	6090	8860	7450	6730	6260	5920	5660	8310	6990	6320	5880	5560	5310	7930	6660	6020	5600	5300	5060	
400x126	10740	9290	8400	7780	7300	6930	10680	8980	8120	7550	7140	6820	9800	8240	7440	6930	6550	6260	9810	8190	7330	6980	6500	6140	5870	8760	7370	6660	6190	5860	5600
450x126	11860	10330	9370	8690	8170	7760	11670	9810	8870	8250	7800	7450	10700	9000	8130	7570	7150	6840	10040	8440	7630	7100	6710	6410	9570	8050	7270	6770	6400	6110	
500x126	12950	11340	10320	9580	9020	8580	12630	10620	9600	8930	8440	8070	11580	9740	8800	8190	7740	7400	10860	9130	8250	7680	7260	6940	10360	8710	7870	7320	6930	6620	
550x126	14010	12270	11080	10310	9750	9320	13570	11410	10310	9590	9070	8670	12440	10460	9450	8800	8320	7950	11670	9810	8870	8250	7800	7450	11130	9360	8450	7870	7440	7110	
600x126	15040	13090	11830	11010	10410	9950	14480	12180	11000	10240	9680	9250	13280	11170	10090	9390	8880	8480	12460	10470	9460	8810	8330	7960	11880	9990	9020	8400	7940	7590	
650x126	16050	13900	12560	11690	11060	10560	15380	12930	11680	10870	10280	9820	14100	11860	10710	9970	9430	9010	13230	11120	10050	9350	8840	8450	12610	10600	9580	8920	8430	8060	
700x126	16500	14700	13280	12360	11690	11170	16260	13670	12350	11490	10870	10390	14910	12530	11330	10540	9970	9520	13980	11760	10620	9890	9350	8930	13330	11210	10130	9430	8910	8520	
750x126	16500	15480	13990	13020	12310	11760	16500	14400	13010	12100	11450	10940	15700	13200	11930	11100	10500	10030	14730	12380	11190	10410	9850	9410	14040	11810	10670	9930	9390	8970	
800x126	16500	16250	14680	13660	12920	12340	16500	15110	13650	12710	12020	11480	16480	13860	12520	11650	11020	10530	15460	13000	11740	10930	10340	9870	14740	12390	11200	10420	9850	9420	
850x126	16500	16500	15360	14300	13520	12920	16500	15810	14290	13300	12570	12010	16500	14500	13100	12190	11530	11020	16180	13600	12290	11440	10820	10330	15420	12970	11720	10900	10310	9850	
900x126	16500	16500	16040	14920	14110	13490	16500	16500	14910	13880	13130	12540	16500	15140	13680	12730	12040	11500	16500	14200	12830	11940	11290	10790	16100	13540	12230	11380	10760	10290	
950x126	16500	16500	16500	15540	14700	14040	16500	16500	15530	14450	13670	13060	16500	15760	14240	13250	12530	11980	16500	14790	13360	12430	11760	11230	16500	14100	12740	11850	11210	10710	
1000x126	16500	16500	16500	16150	15280	14590	16500	16500	16140	15020	14210	13570	16500	16380	14800	13770	13030	12450	16500	15370	13880	12920	12220	11670	16500	14650	13240	12320	11650	11130	
210x210	6810	5850	5280	4870	4570	4330	6810	5850	5280	4870	4570	4330	6810	5770	5210	4850	4570	4330	6440	5410	4890	4550	4300	4110	6140	5180	4660	4340	4100	3920	
400x210	11650	10370	9520	8890	8400	8000	11650	10210	9220	8580	8120	7750	11130	9360	8460	7870	7440	7110	10440	8780	7930	7380	6980	6670	9960	8370	7560	7040	6660	6360	
450x210	12880	11480	10570	9900	9370	8930	12880	11150	10070	9380	8870	8470	12160	10220	9240	8600	8130	7770	11410	9590	8670	8060	7630	7290	10880	9140	8260	7690	7270	6950	
500x210	13920	12550	11600	10880	10320	9850	13920	12070	10900	10150	9600	9170	13160	11070	10000	9300	8800	8410	12340	10380	9380	8730	8250	7890	11770	9900	8940	8320	7870	7520	
550x210	15000	13600	12590	11720	11080	10590	15000	12960	11710	10900	10310	9850	14140	11890	10740	9990	9450	9030	13260	11150	10070	9370									

Table 46.4: Red Stag Vertix₂₀ Ridge Beam Span Table ^a

Vertex Ridge Beams							Light Configuration						Vertix ₂₀						25°-45°											
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88x88	2270	1830	1610	1470	1370	1290	2270	1830	1610	1470	1370	1290	2270	1830	1610	1470	1370	1290	2270	1830	1610	1470	1370	1290	2270	1820	1590	1450	1340	1260
140x88	3530	2890	2550	2330	2170	2040	3530	2890	2550	2330	2170	2040	3530	2890	2550	2330	2170	2040	3530	2890	2550	2330	2170	2040	3530	2890	2530	2300	2140	2010
190x88	4700	3880	3430	3140	2930	2760	4700	3880	3430	3140	2930	2760	4700	3880	3430	3140	2930	2760	4700	3880	3430	3140	2930	2760	4580	3850	3430	3130	2900	2730
240x88	5830	4850	4310	3950	3680	3480	5830	4850	4310	3950	3680	3480	5830	4850	4310	3950	3680	3480	5730	4810	4310	3950	3680	3480	5460	4590	4150	3860	3650	3450
290x88	6920	5800	5170	4740	4430	4190	6920	5800	5170	4740	4430	4190	6920	5800	5170	4740	4430	4190	6600	5550	5010	4660	4410	4190	6290	5290	4780	4450	4210	4020
300x88	7140	5980	5340	4900	4580	4330	7140	5980	5340	4900	4580	4330	7140	5980	5340	4900	4580	4330	6770	5690	5140	4780	4520	4320	6450	5430	4900	4560	4310	4120
315x88	7450	6260	5590	5140	4820	4540	7450	6260	5590	5140	4820	4540	7450	6260	5590	5140	4820	4540	6700	5600	5030	4660	4480	4280	6690	5630	5090	4730	4480	4280
350x88	8190	6910	6180	5690	5320	5030	8190	6910	6180	5690	5320	5030	8100	6810	6150	5690	5320	5030	7600	6390	5770	5370	5080	4850	7250	6090	5500	5120	4840	4630
360x88	8400	7100	6350	5840	5470	5170	8400	7100	6350	5840	5470	5170	8270	6960	6290	5840	5470	5170	7760	6530	5900	5490	5190	4960	7400	6220	5620	5230	4950	4730
400x88	9210	7830	7020	6470	6050	5730	9210	7830	7020	6470	6050	5730	8950	7530	6800	6330	5990	5720	8400	7060	6380	5940	5620	5370	8010	6730	6080	5660	5350	5120
405x88	9310	7920	7100	6540	6130	5800	9310	7920	7100	6540	6130	5800	9040	7600	6870	6390	6040	5770	8480	7130	6440	5990	5670	5420	8080	6800	6140	5710	5400	5160
450x88	10210	8720	7840	7240	6780	6420	10210	8720	7840	7240	6780	6420	9780	8230	7430	6920	6540	6250	9180	7720	6970	6490	6130	5860	8750	7360	6650	6190	5850	5590
495x88	11090	9520	8580	7920	7430	7040	11090	9520	8580	7920	7430	7040	10510	8840	7980	7430	7030	6710	9860	8290	7490	6970	6590	6300	9400	7900	7140	6640	6280	6000
500x88	11180	9610	8660	8000	7500	7110	11180	9610	8660	8000	7500	7110	10590	8900	8040	7480	7080	6760	9930	8350	7540	7020	6640	6340	9470	7960	7190	6690	6330	6050
540x88	11940	10300	9300	8600	8080	7660	11940	10290	9290	8600	8080	7660	11220	9430	8520	7930	7500	7160	10520	8850	7990	7440	7030	6720	10030	8430	7620	7090	6710	6410
550x88	12130	10470	9460	8750	8220	7790	12130	10430	9420	8750	8220	7790	11370	9560	8640	8040	7600	7260	10670	8970	8100	7540	7130	6810	10170	8550	7730	7190	6800	6500
595x88	12970	11240	10180	9430	8860	8410	12970	11060	9990	9300	8800	8400	12060	10140	9160	8530	8070	7710	11320	9510	8600	8000	7570	7230	10790	9070	8200	7630	7210	6890
600x88	13060	11330	10260	9500	8930	8470	13060	11130	10060	9360	8850	8460	12140	10210	9220	8590	8120	7750	11390	9570	8650	8050	7610	7270	10860	9130	8250	7680	7260	6940
126x126	3520	2900	2570	2350	2190	2070	3520	2900	2570	2350	2190	2070	3520	2900	2570	2350	2190	2070	3520	2900	2570	2350	2190	2070	3520	2900	2570	2340	2170	2040
250x126	6570	5560	4970	4570	4280	4050	6570	5560	4970	4570	4280	4050	6570	5560	4970	4570	4280	4050	6460	5530	4910	4560	4280	4050	6160	5180	4680	4350	4120	3930
300x126	7720	6580	5910	5450	5100	4830	7720	6580	5910	5450	5100	4830	7720	6580	5910	5450	5100	4830	7400	6230	5630	5230	4950	4730	7060	5940	5360	4990	4720	4510
350x126	8820	7580	6830	6310	5920	5610	8820	7580	6830	6310	5920	5610	8820	7450	6730	6260	5920	5610	8310	6990	6320	5880	5560	5310	7930	6660	6020	5600	5300	5060
400x126	9880	8550	7730	7160	6720	6380	9880	8550	7730	7160	6720	6380	9800	8240	7440	6930	6550	6260	8900	7730	6980	6500	6140	5870	8760	7370	6660	6190	5860	5600
450x126	10920	9510	8620	8000	7520	7140	10920	9510	8620	8000	7520	7140	10700	9000	8130	7570	7150	6840	10040	8440	7630	7100	6710	6410	9570	8050	7270	6770	6400	6110
500x126	11920	10440	9500	8820	8310	7890	11920	10440	9500	8820	8310	7890	11580	9740	8800	8190	7740	7400	10860	9130	8250	7680	7260	6940	10360	8710	7870	7320	6930	6620
550x126	12890	11350	10360	9640	9090	8640	12890	11350	10310	9590	9070	8640	12440	10460	9450	8800	8320	7950	11670	9810	8870	8250	7800	7450	11130	9360	8450	7870	7440	7110
600x126	13850	12250	11210	10450	9860	9380	13850	12180	11000	10240	9680	9250	13280	11170	10090	9390	8880	8480	12460	10470	9460	8810	8330	7960	11880	9990	9020	8400	7940	7590
650x126	14770	13130	12040	11240	10620	10120	14770	12930	11680	10870	10280	9820	14100	11860	10710	9970	9430	9010	13230	11120	10050	9350	8840	8450	12610	10600	9580	8920	8430	8060
700x126	15680	14000	12870	12030	11370	10840	15680	13670	12350	11490	10870	10390	14910	12530	11330	10540	9970	9520	13980	11760	10620	9890	9350	8930	13330	11210	10130	9430	8910	8520
750x126	16500	14850	13680	12810	12120	11560	16500	14400	13010	12100	11450	10940	15700	13200	11930	11100	10500	10030	14730	12380	11190	10410	9850	9410	14040	11810	10670	9930	9390	8970
800x126	16500	15690	14480	13580	12860	12280	16500	15110	14360	13650	12710	12020	12480	13860	12520	11650	11020	10530	15460	13000	11740	10930	10340	9870	14740	12390	11200	10420	9850	9420
850x126	16500	16500	15280	14390	13520	12920	16500	15810	14290	13300	12570	12010	16500	14500	13100	12190	11530	11020	16180	13600	12290	11440	10820	10330	15420	12970	11720	10900	10310	9850
900x126	16500	16500	16040	14920	14110	13490	16500	16500	14910	13880	13130	12540	16500	15140	13680	12730	12040	11500	16500	14200	12830	11940	11290	10790	16100	13540	12230	11380	10760	10290
950x126	16500	16500	16500	15540	14700	14040	16500	16500	15530	14450	13670	13060	16500	15760	14240	13250	12530	11980	16500	14790	13360	12430	11760	11230	16500	14100	12740	11850	11210	10710
1000x126	16500	16500	16500	16150	15280	14590	16500	16500	16140	15020	14210	13570	16500	16380	14800	13770	13030	12450	16500	15370	13880	12920	12220	11670	16500	14650	13240	12320	11650	11130
210x210	6270	5390	4860	4490	4210	3990	6270	5390	4860	4490	4210	3990	6270	5390	4860	4490	4210	3990	6270	5390	4860	4490	4210	3990	6140	5160	4660	4340	4100	3920
400x210	10730	9550	8760	8180	7730	7370	10730	9550	8760	8180	7730	7370	10730	9360	8460	7870	7440	7110	10440	8780	7930	7380	6980	6670	9960	8370	7560	7040	6660	6360
450x210	11790	10560	9730	9110	8620	8220	11790	10560	9730	9110	8620	8220	11790	10220	9240	8600	8130	7770	11410	9590	8670	8060	7630	7290	10880	9140	8260	7690	7270	6950
500x210	12810	11550	10680	10020	9500	9070	12810	11550	10680	10020	9500	9070	12810	11070	10000	9300	8800	8410	12340	10380	9380	8730	8250	7890	11770	9900	8940	8320	7870	7520
550x210	13810	12520	11610	10910	10360	9900	13810	12520	11610	10900	10310	9850	13810	11890	10740	9990	9450	9030	13260	11150	10070	9370	8870	8470	12640					

Table 46.5: Red Stag Vertix₁₀ Ridge Beam Span Table ^a

Vertex Ridge Beams						Heavy Configuration						Vertix ₁₀						0°–25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88x88	1750	1400	1230	1120	1040	980	1750	1400	1230	1120	1040	980	1750	1400	1230	1120	1040	980	1750	1400	1230	1120	1040	980	1750	1400	1230	1120	1040	980
140x88	2760	2220	1950	1770	1650	1550	2760	2220	1950	1770	1650	1550	2760	2220	1950	1770	1650	1550	2760	2220	1950	1770	1650	1550	2760	2220	1950	1770	1650	1550
190x88	3710	3000	2640	2400	2230	2110	3710	3000	2640	2400	2230	2110	3710	3000	2640	2400	2230	2110	3710	3000	2640	2400	2230	2110	3710	3000	2640	2400	2230	2110
240x88	4650	3770	3320	3030	2820	2660	4650	3770	3320	3030	2820	2660	4650	3770	3320	3030	2820	2660	4650	3770	3320	3030	2820	2660	4650	3770	3320	3030	2820	2660
290x88	5570	4540	4000	3650	3400	3210	5570	4540	4000	3650	3400	3210	5570	4540	4000	3650	3400	3210	5570	4540	4000	3650	3400	3210	5570	4540	4000	3650	3400	3210
300x88	5750	4690	4140	3780	3520	3310	5750	4690	4140	3780	3520	3310	5750	4690	4140	3780	3520	3310	5750	4690	4140	3780	3520	3310	5750	4690	4140	3780	3520	3310
315x88	6020	4920	4340	3960	3690	3480	6020	4920	4340	3960	3690	3480	6020	4920	4340	3960	3690	3480	6020	4920	4340	3960	3690	3480	6020	4920	4340	3960	3690	3480
350x88	6650	5450	4810	4400	4090	3860	6650	5450	4810	4400	4090	3860	6650	5450	4810	4400	4090	3860	6650	5450	4810	4400	4090	3860	6650	5450	4810	4400	4090	3860
360x88	6830	5600	4940	4520	4210	3970	6830	5600	4940	4520	4210	3970	6830	5600	4940	4520	4210	3970	6830	5600	4940	4520	4210	3970	6830	5600	4940	4520	4210	3970
400x88	7540	6200	5480	5010	4670	4410	7540	6200	5480	5010	4670	4410	7540	6200	5480	5010	4670	4410	7540	6200	5480	5010	4670	4410	7540	6200	5480	5010	4670	4410
405x88	7620	6270	5550	5070	4730	4460	7620	6270	5550	5070	4730	4460	7620	6270	5550	5070	4730	4460	7620	6270	5550	5070	4730	4460	7620	6270	5550	5070	4730	4460
450x88	8410	6940	6150	5620	5240	4950	8410	6940	6150	5620	5240	4950	8410	6940	6150	5620	5240	4950	8410	6940	6150	5620	5240	4950	8410	6940	6150	5620	5240	4950
495x88	9180	7600	6740	6170	5760	5440	9180	7600	6740	6170	5760	5440	9180	7600	6740	6170	5760	5440	9180	7600	6740	6170	5760	5440	9180	7600	6740	6170	5760	5440
500x88	9270	7670	6810	6230	5820	5490	9270	7670	6810	6230	5820	5490	9270	7670	6810	6230	5820	5490	9270	7670	6810	6230	5820	5490	9270	7670	6810	6230	5820	5490
540x88	9950	8260	7330	6720	6270	5920	9950	8260	7330	6720	6270	5920	9950	8260	7330	6720	6270	5920	9950	8260	7330	6720	6270	5920	9950	8260	7330	6720	6270	5920
550x88	10120	8400	7470	6840	6390	6030	10120	8400	7470	6840	6390	6030	10120	8400	7470	6840	6390	6030	10120	8400	7470	6840	6390	6030	10120	8400	7470	6840	6390	6030
595x88	10870	9060	8050	7390	6900	6510	10870	9060	8050	7390	6900	6510	10870	9060	8050	7390	6900	6510	10870	9060	8050	7390	6900	6510	10870	9060	8050	7390	6900	6510
600x88	10950	9130	8120	7450	6950	6570	10950	9130	8120	7450	6950	6570	10950	9130	8120	7450	6950	6570	10950	9130	8120	7450	6950	6570	10950	9130	8120	7450	6950	6570
126x126	2780	2240	1970	1800	1670	1570	2780	2240	1970	1800	1670	1570	2780	2240	1970	1800	1670	1570	2780	2240	1970	1800	1670	1570	2780	2240	1970	1800	1670	1570
250x126	5350	4380	3870	3540	3290	3110	5350	4380	3870	3540	3290	3110	5350	4380	3870	3540	3290	3110	5350	4380	3870	3540	3290	3110	5350	4380	3870	3540	3290	3110
300x126	6340	5220	4620	4230	3940	3720	6340	5220	4620	4230	3940	3720	6340	5220	4620	4230	3940	3720	6340	5220	4620	4230	3940	3720	6340	5220	4620	4230	3940	3720
350x126	7310	6050	5370	4920	4590	4330	7310	6050	5370	4920	4590	4330	7310	6050	5370	4920	4590	4330	7310	6050	5370	4920	4590	4330	7310	6050	5370	4920	4590	4330
400x126	8280	6870	6110	5600	5230	4940	8280	6870	6110	5600	5230	4940	8280	6870	6110	5600	5230	4940	8280	6870	6110	5600	5230	4940	8280	6870	6110	5600	5230	4940
450x126	9200	7690	6840	6280	5870	5540	9200	7690	6840	6280	5870	5540	9200	7690	6840	6280	5870	5540	9200	7690	6840	6280	5870	5540	9200	7690	6840	6280	5870	5540
500x126	10110	8490	7570	6960	6500	6150	10110	8490	7570	6960	6500	6150	10110	8490	7570	6960	6500	6150	10110	8490	7570	6960	6500	6150	10110	8490	7570	6960	6500	6150
550x126	11010	9280	8290	7630	7130	6750	11010	9280	8290	7630	7130	6750	11010	9280	8290	7630	7130	6750	11010	9280	8290	7630	7130	6750	11010	9280	8290	7630	7130	6750
600x126	11890	10060	9010	8290	7760	7340	11890	10060	9010	8290	7760	7340	11890	10060	9010	8290	7760	7340	11890	10060	9010	8290	7760	7340	11890	10060	9010	8290	7760	7340
650x126	12760	10840	9720	8950	8380	7940	12760	10840	9720	8950	8380	7940	12760	10840	9720	8950	8380	7940	12760	10840	9720	8950	8380	7940	12760	10840	9720	8950	8380	7940
700x126	13620	11610	10420	9610	9010	8530	13620	11610	10420	9610	9010	8530	13620	11610	10420	9610	9010	8530	13620	11610	10420	9610	9010	8530	13620	11610	10420	9610	9010	8530
750x126	14460	12370	11120	10270	9620	9120	14460	12370	11120	10270	9620	9120	14460	12370	11120	10270	9620	9120	14460	12370	11120	10270	9620	9120	14460	12370	11120	10270	9620	9120
800x126	15280	13120	11820	10920	10240	9700	15280	13120	11820	10920	10240	9700	15280	13120	11820	10920	10240	9700	15280	13120	11820	10920	10240	9700	15280	13120	11820	10920	10240	9700
850x126	16100	13860	12510	11560	10850	10290	16100	13860	12510	11560	10850	10290	16100	13860	12510	11560	10850	10290	16100	13860	12510	11560	10850	10290	16100	13860	12510	11560	10850	10290
900x126	16500	14600	13190	12200	11460	10870	16500	14600	13190	12200	11460	10870	16500	14600	13190	12200	11460	10870	16500	14600	13190	12200	11460	10870	16500	14600	13190	12200	11460	10870
950x126	16500	15330	13870	12840	12060	11450	16500	15330	13870	12840	12060	11450	16500	15330	13870	12840	12060	11450	16500	15330	13870	12840	12060	11450	16500	15330	13870	12840	12060	11450
1000x126	16500	16050	14540	13480	12670	12020	16500	16050	14540	13480	12670	12020	16500	16050	14540	13480	12670	12020	16500	16050	14540	13480	12670	12020	16500	16050	14540	13480	12670	12020
210x210	5200	4300	3820	3500	3260	3080	5200	4300	3820	3500	3260	3080	5200	4300	3820	3500	3260	3080	5200	4300	3820	3500	3260	3080	5200	4300	3820	3500	3260	3080
400x210	9280	7890	7080	6520	6110	5780	9280	7890	7080	6520	6110	5780	9280	7890	7080	6520	6110	5780	9280	7890	7080	6520	6110	5780	9280	7890	7080	6520	6110	5780
450x210	10280	8800	7910	7300	6840	6480	10280	8800	7910	7300	6840	6480	10280	8800	7910	7300	6840	6480	10280	8800	7910	7300	6840	6480	10280	8800	7910	7300	6840	6480
500x210	11260	9680	8730	8070	7570	7180	11260	9680	8730	8070	7570	7180	11260	9680	8730	8070	7570	7180	11260	9680	8730	8070	7570	7180	11260	9680	8730	8070	7570	7180
550x210	12210	10560	9540	8830	8290	7870	12210	10560	9540	8830	8290	7870	12210	10560	9540	8830	8290	7870	12210	10560	9540	8830	8290	7870	12210	10560	9540	8830	8290	7870
600x210	13150	11420	10340																											

Table 46.6: Red Stag Vertix₁₀ Ridge Beam Span Table ^a

Vertex Ridge Beams						Heavy Configuration						Vertix ₁₀						25°–45°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88x88	1610	1290	1130	1030	950	900	1610	1290	1130	1030	950	900	1610	1290	1130	1030	950	900	1610	1290	1130	1030	950	900	1610	1290	1130	1030	950	900
140x88	2540	2040	1790	1630	1520	1430	2540	2040	1790	1630	1520	1430	2540	2040	1790	1630	1520	1430	2540	2040	1790	1630	1520	1430	2540	2040	1790	1630	1520	1430
190x88	3420	2760	2430	2210	2060	1940	3420	2760	2430	2210	2060	1940	3420	2760	2430	2210	2060	1940	3420	2760	2430	2210	2060	1940	3420	2760	2430	2210	2060	1940
240x88	4280	3470	3060	2790	2590	2440	4280	3470	3060	2790	2590	2440	4280	3470	3060	2790	2590	2440	4280	3470	3060	2790	2590	2440	4280	3470	3060	2790	2590	2440
290x88	5120	4180	3680	3360	3130	2950	5120	4180	3680	3360	3130	2950	5120	4180	3680	3360	3130	2950	5120	4180	3680	3360	3130	2950	5120	4180	3680	3360	3130	2950
300x88	5290	4320	3810	3480	3240	3050	5290	4320	3810	3480	3240	3050	5290	4320	3810	3480	3240	3050	5290	4320	3810	3480	3240	3050	5290	4320	3810	3480	3240	3050
315x88	5540	4530	3990	3650	3400	3200	5540	4530	3990	3650	3400	3200	5540	4530	3990	3650	3400	3200	5540	4530	3990	3650	3400	3200	5540	4530	3990	3650	3400	3200
350x88	6120	5010	4430	4050	3770	3550	6120	5010	4430	4050	3770	3550	6120	5010	4430	4050	3770	3550	6120	5010	4430	4050	3770	3550	6120	5010	4430	4050	3770	3550
360x88	6290	5150	4550	4160	3870	3650	6290	5150	4550	4160	3870	3650	6290	5150	4550	4160	3870	3650	6290	5150	4550	4160	3870	3650	6290	5150	4550	4160	3870	3650
400x88	6940	5700	5040	4610	4300	4060	6940	5700	5040	4610	4300	4060	6940	5700	5040	4610	4300	4060	6940	5700	5040	4610	4300	4060	6940	5700	5040	4610	4300	4060
405x88	7020	5770	5110	4670	4350	4110	7020	5770	5110	4670	4350	4110	7020	5770	5110	4670	4350	4110	7020	5770	5110	4670	4350	4110	7020	5770	5110	4670	4350	4110
450x88	7740	6390	5660	5180	4830	4560	7740	6390	5660	5180	4830	4560	7740	6390	5660	5180	4830	4560	7740	6390	5660	5180	4830	4560	7740	6390	5660	5180	4830	4560
495x88	8450	7000	6210	5680	5300	5000	8450	7000	6210	5680	5300	5000	8450	7000	6210	5680	5300	5000	8450	7000	6210	5680	5300	5000	8450	7000	6210	5680	5300	5000
500x88	8530	7060	6270	5740	5350	5050	8530	7060	6270	5740	5350	5050	8530	7060	6270	5740	5350	5050	8530	7060	6270	5740	5350	5050	8530	7060	6270	5740	5350	5050
540x88	9160	7600	6750	6190	5770	5450	9160	7600	6750	6190	5770	5450	9160	7600	6750	6190	5770	5450	9160	7600	6750	6190	5770	5450	9160	7600	6750	6190	5770	5450
550x88	9310	7740	6870	6300	5880	5550	9310	7740	6870	6300	5880	5550	9310	7740	6870	6300	5880	5550	9310	7740	6870	6300	5880	5550	9310	7740	6870	6300	5880	5550
595x88	10010	8340	7410	6800	6350	6000	10010	8340	7410	6800	6350	6000	10010	8340	7410	6800	6350	6000	10010	8340	7410	6800	6350	6000	10010	8340	7410	6800	6350	6000
600x88	10080	8400	7470	6860	6400	6050	10080	8400	7470	6860	6400	6050	10080	8400	7470	6860	6400	6050	10080	8400	7470	6860	6400	6050	10080	8400	7470	6860	6400	6050
126x126	2560	2060	1810	1650	1540	1450	2560	2060	1810	1650	1540	1450	2560	2060	1810	1650	1540	1450	2560	2060	1810	1650	1540	1450	2560	2060	1810	1650	1540	1450
250x126	4920	4030	3560	3250	3030	2860	4920	4030	3560	3250	3030	2860	4920	4030	3560	3250	3030	2860	4920	4030	3560	3250	3030	2860	4920	4030	3560	3250	3030	2860
300x126	5830	4810	4260	3890	3630	3420	5830	4810	4260	3890	3630	3420	5830	4810	4260	3890	3630	3420	5830	4810	4260	3890	3630	3420	5830	4810	4260	3890	3630	3420
350x126	6730	5570	4940	4530	4220	3990	6730	5570	4940	4530	4220	3990	6730	5570	4940	4530	4220	3990	6730	5570	4940	4530	4220	3990	6730	5570	4940	4530	4220	3990
400x126	7610	6330	5620	5160	4810	4550	7610	6330	5620	5160	4810	4550	7610	6330	5620	5160	4810	4550	7610	6330	5620	5160	4810	4550	7610	6330	5620	5160	4810	4550
450x126	8460	7080	6300	5780	5400	5100	8460	7080	6300	5780	5400	5100	8460	7080	6300	5780	5400	5100	8460	7080	6300	5780	5400	5100	8460	7080	6300	5780	5400	5100
500x126	9310	7810	6970	6400	5980	5660	9310	7810	6970	6400	5980	5660	9310	7810	6970	6400	5980	5660	9310	7810	6970	6400	5980	5660	9310	7810	6970	6400	5980	5660
550x126	10130	8540	7630	7020	6570	6210	10130	8540	7630	7020	6570	6210	10130	8540	7630	7020	6570	6210	10130	8540	7630	7020	6570	6210	10130	8540	7630	7020	6570	6210
600x126	10950	9270	8290	7630	7140	6760	10950	9270	8290	7630	7140	6760	10950	9270	8290	7630	7140	6760	10950	9270	8290	7630	7140	6760	10950	9270	8290	7630	7140	6760
650x126	11750	9980	8950	8240	7720	7310	11750	9980	8950	8240	7720	7310	11750	9980	8950	8240	7720	7310	11750	9980	8950	8240	7720	7310	11750	9980	8950	8240	7720	7310
700x126	12530	10690	9600	8850	8290	7850	12530	10690	9600	8850	8290	7850	12530	10690	9600	8850	8290	7850	12530	10690	9600	8850	8290	7850	12530	10690	9600	8850	8290	7850
750x126	13310	11380	10240	9450	8860	8390	13310	11380	10240	9450	8860	8390	13310	11380	10240	9450	8860	8390	13310	11380	10240	9450	8860	8390	13310	11380	10240	9450	8860	8390
800x126	14070	12080	10880	10050	9420	8930	14070	12080	10880	10050	9420	8930	14070	12080	10880	10050	9420	8930	14070	12080	10880	10050	9420	8930	14070	12080	10880	10050	9420	8930
850x126	14820	12760	11510	10640	9990	9470	14820	12760	11510	10640	9990	9470	14820	12760	11510	10640	9990	9470	14820	12760	11510	10640	9990	9470	14820	12760	11510	10640	9990	9470
900x126	15560	13440	12140	11230	10550	10000	15560	13440	12140	11230	10550	10000	15560	13440	12140	11230	10550	10000	15560	13440	12140	11230	10550	10000	15560	13440	12140	11230	10550	10000
950x126	16290	14110	12770	11820	11110	10540	16290	14110	12770	11820	11110	10540	16290	14110	12770	11820	11110	10540	16290	14110	12770	11820	11110	10540	16290	14110	12770	11820	11110	10540
1000x126	16500	14780	13390	12410	11660	11070	16500	14780	13390	12410	11660	11070	16500	14780	13390	12410	11660	11070	16500	14780	13390	12410	11660	11070	16500	14780	13390	12410	11660	11070
210x210	4790	3960	3520	3220	3000	2830	4790	3960	3520	3220	3000	2830	4790	3960	3520	3220	3000	2830	4790	3960	3520	3220	3000	2830	4790	3960	3520	3220	3000	2830
400x210	8540	7270	6520	6010	5620	5320	8540	7270	6520	6010	5620	5320	8540	7270	6520	6010	5620	5320	8540	7270	6520	6010	5620	5320	8540	7270	6520	6010	5620	5320
450x210	9470	8100	7280	6720	6300	5970	9470	8100	7280	6720	6300	5970	9470	8100	7280	6720	6300	5970	9470	8100	7280	6720	6300	5970	9470	8100	7280	6720	6300	5970
500x210	10370	8910	8040	7430	6970	6610	10370	8910	8040	7430	6970	6610	10370	8910	8040	7430	6970	6610	10370	8910	8040	7430	6970	6610	10370	8910	8040	7430	6970	6610
550x210	11240	9720	8780	8130	7630	7240	11240	9720	8780	8130	7630	7240	11240	9720	8780	8130	7630	7240	11240	9720	8780	8130	7630	7240	11240	9720	8780	8130	7630	7240
600x210	12100	10510	9520	8820	8290	7870	12100	10510	9520	8820																				

Table 46.7: Red Stag Vertix₂₀ Ridge Beam Span Table ^a

Vertex Ridge Beams		Heavy Configuration										Vertex ₂₀						0°-25°												
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88x88	1900	1520	1330	1210	1120	1060	1900	1520	1330	1210	1120	1060	1900	1520	1330	1210	1120	1060	1900	1520	1330	1210	1120	1060	1900	1520	1330	1210	1120	1060
140x88	2990	2410	2110	1920	1790	1680	2990	2410	2110	1920	1790	1680	2990	2410	2110	1920	1790	1680	2990	2410	2110	1920	1790	1680	2990	2410	2110	1920	1790	1680
190x88	4020	3250	2860	2600	2420	2280	4020	3250	2860	2600	2420	2280	4020	3250	2860	2600	2420	2280	4020	3250	2860	2600	2420	2280	4020	3250	2860	2600	2420	2280
240x88	5040	4090	3600	3280	3050	2880	5040	4090	3600	3280	3050	2880	5040	4090	3600	3280	3050	2880	5040	4090	3600	3280	3050	2880	5040	4090	3600	3280	3050	2880
290x88	6030	4920	4330	3960	3680	3470	6030	4920	4330	3960	3680	3470	6030	4920	4330	3960	3680	3470	6030	4920	4330	3960	3680	3470	6030	4920	4330	3960	3680	3470
300x88	6230	5080	4480	4090	3810	3590	6230	5080	4480	4090	3810	3590	6230	5080	4480	4090	3810	3590	6230	5080	4480	4090	3810	3590	6230	5080	4480	4090	3810	3590
315x88	6520	5330	4700	4290	4000	3770	6520	5330	4700	4290	4000	3770	6520	5330	4700	4290	4000	3770	6520	5330	4700	4290	4000	3770	6520	5330	4700	4290	4000	3770
350x88	7200	5900	5210	4760	4440	4180	7200	5900	5210	4760	4440	4180	7200	5900	5210	4760	4440	4180	7200	5900	5210	4760	4440	4180	7200	5900	5210	4760	4440	4180
360x88	7400	6060	5360	4900	4560	4300	7400	6060	5360	4900	4560	4300	7400	6060	5360	4900	4560	4300	7400	6060	5360	4900	4560	4300	7400	6060	5360	4900	4560	4300
400x88	8170	6710	5940	5430	5060	4770	8170	6710	5940	5430	5060	4770	8170	6710	5940	5430	5060	4770	8170	6710	5940	5430	5060	4770	8170	6710	5940	5430	5060	4770
405x88	8260	6790	6010	5500	5120	4830	8260	6790	6010	5500	5120	4830	8260	6790	6010	5500	5120	4830	8260	6790	6010	5500	5120	4830	8260	6790	6010	5500	5120	4830
450x88	9110	7520	6660	6090	5680	5360	9110	7520	6660	6090	5680	5360	9110	7520	6660	6090	5680	5360	9110	7520	6660	6090	5680	5360	9110	7520	6660	6090	5680	5360
495x88	9950	8240	7310	6690	6240	5890	9950	8240	7310	6690	6240	5890	9950	8240	7310	6690	6240	5890	9950	8240	7310	6690	6240	5890	9950	8240	7310	6690	6240	5890
500x88	10040	8320	7380	6760	6300	5950	10040	8320	7380	6760	6300	5950	10040	8320	7380	6760	6300	5950	9930	8320	7380	6760	6300	5950	9470	7960	7190	6690	6300	5950
540x88	10780	8950	7950	7280	6800	6420	10780	8950	7950	7280	6800	6420	10780	8950	7950	7280	6800	6420	10520	8950	7950	7280	6800	6420	10030	8430	7620	7090	6710	6410
550x88	10960	9110	8090	7410	6920	6530	10960	9110	8090	7410	6920	6530	10960	9110	8090	7410	6920	6530	10670	8970	8090	7410	6920	6530	10170	8550	7730	7190	6800	6500
595x88	11780	9810	8730	8000	7470	7060	11780	9810	8730	8000	7470	7060	11780	9810	8730	8000	7470	7060	11320	9510	8600	8000	7470	7060	10790	9070	8200	7630	7210	6890
600x88	11870	9890	8800	8070	7530	7120	11870	9890	8800	8070	7530	7120	11870	9890	8800	8070	7530	7120	11390	9570	8650	8050	7530	7120	10860	9130	8250	7680	7260	6940
126x126	3010	2430	2140	1950	1810	1700	3010	2430	2140	1950	1810	1700	3010	2430	2140	1950	1810	1700	3010	2430	2140	1950	1810	1700	3010	2430	2140	1950	1810	1700
250x126	5790	4750	4190	3830	3570	3370	5790	4750	4190	3830	3570	3370	5790	4750	4190	3830	3570	3370	5790	4750	4190	3830	3570	3370	5790	4750	4190	3830	3570	3370
300x126	6870	5660	5010	4580	4270	4030	6870	5660	5010	4580	4270	4030	6870	5660	5010	4580	4270	4030	6870	5660	5010	4580	4270	4030	6870	5660	5010	4580	4270	4030
350x126	7920	6560	5820	5330	4970	4690	7920	6560	5820	5330	4970	4690	7920	6560	5820	5330	4970	4690	7920	6560	5820	5330	4970	4690	7920	6560	5820	5330	4970	4690
400x126	8950	7450	6620	6070	5670	5350	8950	7450	6620	6070	5670	5350	8950	7450	6620	6070	5670	5350	8950	7450	6620	6070	5670	5350	8950	7450	6620	6070	5670	5350
450x126	9960	8330	7420	6810	6360	6010	9960	8330	7420	6810	6360	6010	9960	8330	7420	6810	6360	6010	9960	8330	7420	6810	6360	6010	9960	8330	7420	6810	6360	6010
500x126	10950	9200	8200	7540	7040	6660	10950	9200	8200	7540	7040	6660	10950	9200	8200	7540	7040	6660	10860	9130	8200	7540	7040	6660	10360	8710	7870	7320	6930	6620
550x126	11930	10060	8990	8260	7730	7310	11930	10060	8990	8260	7730	7310	11930	10060	8990	8260	7730	7310	11670	9810	8870	8250	7730	7310	11130	9360	8450	7870	7440	7110
600x126	12880	10900	9760	8980	8410	7950	12880	10900	9760	8980	8410	7950	12880	10900	9760	8980	8410	7950	12460	10470	9460	8810	8330	7950	11880	9990	9020	8400	7940	7590
650x126	13830	11740	10530	9700	9080	8600	13830	11740	10530	9700	9080	8600	13830	11740	10530	9700	9080	8600	13230	11120	10050	9350	8840	8450	12610	10600	9580	8920	8430	8060
700x126	14750	12580	11290	10410	9760	9240	14750	12580	11290	10410	9760	9240	14750	12580	11290	10410	9760	9240	13980	11760	10620	9890	9350	8930	13330	11210	10130	9430	8910	8520
750x126	15660	13400	12050	11120	10430	9880	15660	13400	12050	11120	10430	9880	15660	13400	12050	11120	10430	9880	14730	12380	11190	10410	9850	9410	14040	11810	10670	9930	9390	8970
800x126	16500	14210	12800	11830	11090	10510	16500	14210	12800	11830	11090	10510	16480	13860	12520	11650	11020	10510	15460	13000	11740	10930	10340	9870	14740	12390	11200	10420	9850	9420
850x126	16500	15020	13550	12530	11760	11140	16500	15020	13550	12530	11760	11140	16500	14500	13100	12190	11530	11020	16180	13600	12290	11440	10820	10330	15420	12970	11720	10900	10310	9850
900x126	16500	15820	14290	13220	12420	11770	16500	15820	14290	13220	12420	11770	16500	15140	13680	12730	12040	11500	16500	14200	12830	11940	11290	10790	16100	13540	12230	11380	10760	10290
950x126	16500	16500	15030	13910	13070	12400	16500	16500	15030	13910	13070	12400	16500	15760	14240	13250	12530	11980	16500	14790	13360	12430	11760	11230	16500	14100	12740	11850	11210	10710
1000x126	16500	16500	15760	14600	13720	13030	16500	16500	15760	14600	13720	13030	16500	16380	14800	13770	13030	12450	16500	15370	13880	12920	12220	11670	16500	14650	13240	12320	11650	11130
210x210	5630	4660	4140	3790	3530	3340	5630	4660	4140	3790	3530	3340	5630	4660	4140	3790	3530	3340	5630	4660	4140	3790	3530	3340	5630	4660	4140	3790	3530	3340
400x210	10050	8550	7670	7070	6620	6270	10050	8550	7670	7070	6620	6270	10050	8550	7670	7070	6620	6270	10050	8550	7670	7070	6620	6270	9960	8370	7560	7040	6620	6270
450x210	11140	9530	8570	7910	7420	7020	11140	9530	8570	7910	7420	7020	11140	9530	8570	7910	7420	7020	11140	9530	8570	7910	7420	7020	10880	9140	8260	7690	7270	6950
500x210	12200	10490	9460	8740	8200	7780	12200	10490	9460	8740	8200	7780	12200	10490	9460	8740	8200	7780	12200	10380	9380	8730	8200	7780	11770	9900	8940	8320	7870	7520
550x210	13230	11440	10340	9570	8990	8520	13230	11440	10340	9570	8990	8520	13230	11440	10340	9570	8990	8520	13230	11150	10070	9370	8870	8470	12640	10630	9610	8940	8450	8080
600x2																														

Table 46.8: Red Stag Vertix₂₀ Ridge Beam Span Table ^a

Vertex Ridge Beams							Heavy Configuration						Vertix ₂₀						25°–45°											
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88x88	1750	1400	1220	1110	1030	970	1750	1400	1220	1110	1030	970	1750	1400	1220	1110	1030	970	1750	1400	1220	1110	1030	970	1750	1400	1220	1110	1030	970
140x88	2750	2210	1940	1770	1640	1550	2750	2210	1940	1770	1640	1550	2750	2210	1940	1770	1640	1550	2750	2210	1940	1770	1640	1550	2750	2210	1940	1770	1640	1550
190x88	3700	2990	2630	2400	2230	2100	3700	2990	2630	2400	2230	2100	3700	2990	2630	2400	2230	2100	3700	2990	2630	2400	2230	2100	3700	2990	2630	2400	2230	2100
240x88	4640	3760	3310	3020	2810	2650	4640	3760	3310	3020	2810	2650	4640	3760	3310	3020	2810	2650	4640	3760	3310	3020	2810	2650	4640	3760	3310	3020	2810	2650
290x88	5550	4530	3990	3640	3390	3200	5550	4530	3990	3640	3390	3200	5550	4530	3990	3640	3390	3200	5550	4530	3990	3640	3390	3200	5550	4530	3990	3640	3390	3200
300x88	5730	4680	4130	3770	3510	3310	5730	4680	4130	3770	3510	3310	5730	4680	4130	3770	3510	3310	5730	4680	4130	3770	3510	3310	5730	4680	4130	3770	3510	3310
315x88	6000	4900	4330	3950	3680	3470	6000	4900	4330	3950	3680	3470	6000	4900	4330	3950	3680	3470	6000	4900	4330	3950	3680	3470	6000	4900	4330	3950	3680	3470
350x88	6630	5430	4800	4380	4080	3850	6630	5430	4800	4380	4080	3850	6630	5430	4800	4380	4080	3850	6630	5430	4800	4380	4080	3850	6630	5430	4800	4380	4080	3850
360x88	6810	5580	4930	4510	4200	3960	6810	5580	4930	4510	4200	3960	6810	5580	4930	4510	4200	3960	6810	5580	4930	4510	4200	3960	6810	5580	4930	4510	4200	3960
400x88	7520	6180	5470	5000	4660	4390	7520	6180	5470	5000	4660	4390	7520	6180	5470	5000	4660	4390	7520	6180	5470	5000	4660	4390	7520	6180	5470	5000	4660	4390
405x88	7600	6250	5530	5060	4720	4450	7600	6250	5530	5060	4720	4450	7600	6250	5530	5060	4720	4450	7600	6250	5530	5060	4720	4450	7600	6250	5530	5060	4720	4450
450x88	8390	6920	6130	5610	5230	4940	8390	6920	6130	5610	5230	4940	8390	6920	6130	5610	5230	4940	8390	6920	6130	5610	5230	4940	8390	6920	6130	5610	5230	4940
495x88	9160	7580	6720	6160	5740	5420	9160	7580	6720	6160	5740	5420	9160	7580	6720	6160	5740	5420	9160	7580	6720	6160	5740	5420	9160	7580	6720	6160	5740	5420
500x88	9240	7650	6790	6220	5800	5480	9240	7650	6790	6220	5800	5480	9240	7650	6790	6220	5800	5480	9240	7650	6790	6220	5800	5480	9240	7650	6790	6220	5800	5480
540x88	9920	8240	7320	6700	6260	5910	9920	8240	7320	6700	6260	5910	9920	8240	7320	6700	6260	5910	9920	8240	7320	6700	6260	5910	9920	8240	7320	6700	6260	5910
550x88	10090	8380	7450	6820	6370	6010	10090	8380	7450	6820	6370	6010	10090	8380	7450	6820	6370	6010	10090	8380	7450	6820	6370	6010	10090	8380	7450	6820	6370	6010
595x88	10840	9030	8030	7370	6880	6500	10840	9030	8030	7370	6880	6500	10840	9030	8030	7370	6880	6500	10840	9030	8030	7370	6880	6500	10840	9030	8030	7370	6880	6500
600x88	10920	9100	8100	7430	6930	6550	10920	9100	8100	7430	6930	6550	10920	9100	8100	7430	6930	6550	10920	9100	8100	7430	6930	6550	10920	9100	8100	7430	6930	6550
126x126	2770	2240	1970	1790	1670	1570	2770	2240	1970	1790	1670	1570	2770	2240	1970	1790	1670	1570	2770	2240	1970	1790	1670	1570	2770	2240	1970	1790	1670	1570
250x126	5330	4370	3860	3530	3290	3100	5330	4370	3860	3530	3290	3100	5330	4370	3860	3530	3290	3100	5330	4370	3860	3530	3290	3100	5330	4370	3860	3530	3290	3100
300x126	6320	5210	4610	4220	3930	3710	6320	5210	4610	4220	3930	3710	6320	5210	4610	4220	3930	3710	6320	5210	4610	4220	3930	3710	6320	5210	4610	4220	3930	3710
350x126	7290	6040	5360	4910	4580	4320	7290	6040	5360	4910	4580	4320	7290	6040	5360	4910	4580	4320	7290	6040	5360	4910	4580	4320	7290	6040	5360	4910	4580	4320
400x126	8240	6860	6090	5590	5220	4930	8240	6860	6090	5590	5220	4930	8240	6860	6090	5590	5220	4930	8240	6860	6090	5590	5220	4930	8240	6860	6090	5590	5220	4930
450x126	9170	7670	6830	6260	5850	5530	9170	7670	6830	6260	5850	5530	9170	7670	6830	6260	5850	5530	9170	7670	6830	6260	5850	5530	9170	7670	6830	6260	5850	5530
500x126	10080	8470	7550	6940	6480	6130	10080	8470	7550	6940	6480	6130	10080	8470	7550	6940	6480	6130	10080	8470	7550	6940	6480	6130	10080	8470	7550	6940	6480	6130
550x126	10980	9260	8270	7610	7110	6730	10980	9260	8270	7610	7110	6730	10980	9260	8270	7610	7110	6730	10980	9260	8270	7610	7110	6730	10980	9260	8270	7610	7110	6730
600x126	11860	10040	8990	8270	7740	7320	11860	10040	8990	8270	7740	7320	11860	10040	8990	8270	7740	7320	11860	10040	8990	8270	7740	7320	11860	10040	8990	8270	7740	7320
650x126	12730	10810	9690	8930	8360	7920	12730	10810	9690	8930	8360	7920	12730	10810	9690	8930	8360	7920	12730	10810	9690	8930	8360	7920	12730	10810	9690	8930	8360	7920
700x126	13580	11580	10400	9590	8980	8510	13580	11580	10400	9590	8980	8510	13580	11580	10400	9590	8980	8510	13580	11580	10400	9590	8980	8510	13580	11580	10400	9590	8980	8510
750x126	14420	12330	11090	10240	9600	9090	14420	12330	11090	10240	9600	9090	14420	12330	11090	10240	9600	9090	14420	12330	11090	10240	9600	9090	14420	12330	11090	10240	9600	9090
800x126	15240	13080	11790	10890	10210	9680	15240	13080	11790	10890	10210	9680	15240	13080	11790	10890	10210	9680	15240	13080	11790	10890	10210	9680	15240	13080	11790	10890	10210	9680
850x126	16060	13830	12470	11530	10820	10260	16060	13830	12470	11530	10820	10260	16060	13830	12470	11530	10820	10260	16060	13830	12470	11530	10820	10260	16060	13830	12470	11530	10820	10260
900x126	16500	14560	13160	12170	11430	10840	16500	14560	13160	12170	11430	10840	16500	14560	13160	12170	11430	10840	16500	14560	13160	12170	11430	10840	16500	14560	13160	12170	11430	10840
950x126	16500	15290	13830	12810	12030	11420	16500	15290	13830	12810	12030	11420	16500	15290	13830	12810	12030	11420	16500	15290	13830	12810	12030	11420	16500	15290	13830	12810	12030	11420
1000x126	16500	16010	14500	13440	12630	11990	16500	16010	14500	13440	12630	11990	16500	16010	14500	13440	12630	11990	16500	16010	14500	13440	12630	11990	16500	16010	14500	13440	12630	11990
210x210	5190	4290	3810	3490	3250	3070	5190	4290	3810	3490	3250	3070	5190	4290	3810	3490	3250	3070	5190	4290	3810	3490	3250	3070	5190	4290	3810	3490	3250	3070
400x210	9260	7870	7060	6510	6090	5770	9260	7870	7060	6510	6090	5770	9260	7870	7060	6510	6090	5770	9260	7870	7060	6510	6090	5770	9260	7870	7060	6510	6090	5770
450x210	10260	8770	7890	7280	6830	6470	10260	8770	7890	7280	6830	6470	10260	8770	7890	7280	6830	6470	10260	8770	7890	7280	6830	6470	10260	8770	7890	7280	6830	6470
500x210	11230	9660	8710	8050	7550	7160	11230	9660	8710	8050	7550	7160	11230	9660	8710	8050	7550	7160	11230	9660	8710	8050	7550	7160	11230	9660	8710	8050	7550	7160
550x210	12180	10530	9520	8810	8270	7850	12180	10530	9520	8810	8270	7850	12180	10530	9520	8810	8270	7850	12180	10530	9520	8810	8270	7850	12180	10530	9520	8810	8270	7850
600x210	13110	11390	10320																											



A3 Red Stag Vertex GLT_h Roof Lintel Beam

Red Stag Vertex and GLT_h roof lintel beams are assumed to be subject to uniformly distributed loads. Accordingly, where the roof system includes rafters, a minimum of three rafters (at uniform spacing) are required over the lintel span. The location of the Red Stag Vertex or GLT_h roof lintel beam and its free-body diagram are presented in *Figure 27*. The Red Stag Vertex and GLT_h roof lintel beam spans are presented in *Table 47.1* to *Table 48.16*.

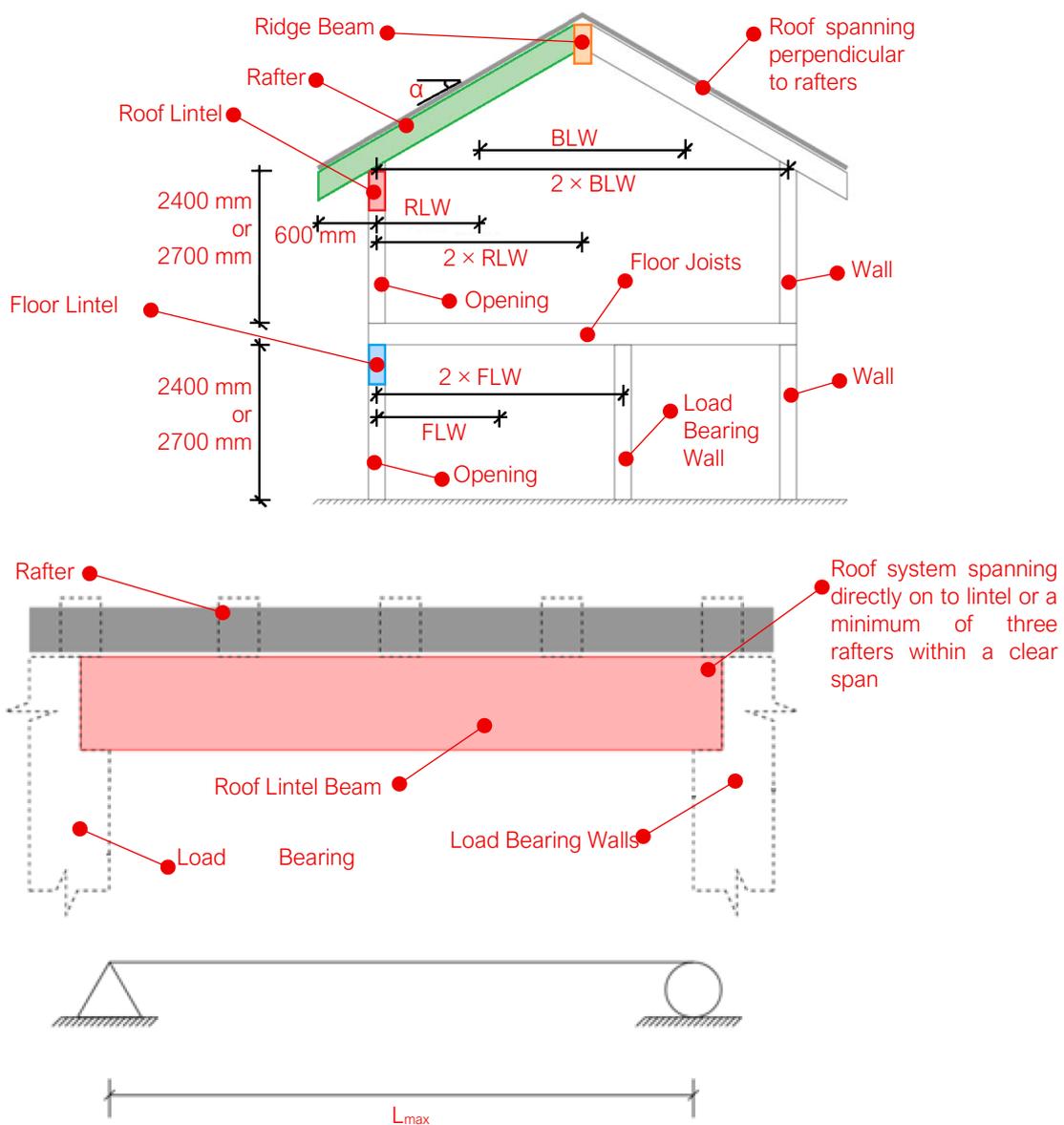


Figure 27: Red Stag Vertex and GLT_h roof lintel beam free diagram.

Table 47.4: Red Stag GLT_h8 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Light Configuration						GL8						25°–45°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2450	2110	1910	1760	1660	1570	2450	2110	1910	1760	1660	1570	2450	2110	1910	1760	1660	1570	2420	2110	1910	1760	1660	1570	2270	1990	1810	1680	1590	1510
168×88	3240	2800	2530	2350	2200	2090	3240	2800	2530	2350	2200	2090	3240	2800	2530	2350	2200	2090	3230	2800	2530	2350	2200	2090	3030	2660	2420	2250	2120	2010
210×88	4000	3480	3150	2920	2740	2610	4000	3480	3150	2920	2740	2610	4000	3480	3150	2920	2740	2610	3930	3480	3150	2920	2740	2610	3740	3330	3030	2810	2650	2520
252×88	4760	4150	3760	3490	3280	3120	4760	4150	3760	3490	3280	3120	4760	4150	3760	3490	3280	3120	4500	4080	3760	3490	3280	3120	4290	3890	3620	3380	3180	3020
294×88	5490	4800	4370	4060	3820	3630	5490	4800	4370	4060	3820	3630	5490	4800	4370	4060	3820	3630	5050	4580	4270	4040	3820	3630	4820	4370	4070	3850	3680	3530
336×88	6220	5460	4970	4620	4350	4140	6220	5460	4970	4620	4350	4140	6220	5460	4970	4620	4350	4140	5590	5070	4720	4470	4270	4110	5330	4830	4500	4260	4070	3920
378×88	6930	6100	5560	5180	4880	4640	6930	6100	5560	5180	4880	4640	6930	6100	5560	5180	4880	4640	6110	5530	5150	4880	4660	4490	5820	5270	4910	4650	4450	4280
126×126	2730	2360	2140	1980	1860	1760	2730	2360	2140	1980	1860	1760	2730	2360	2140	1980	1860	1760	2730	2360	2140	1980	1860	1760	2560	2250	2050	1900	1790	1700
168×126	3580	3120	2830	2620	2470	2340	3580	3120	2830	2620	2470	2340	3580	3120	2830	2620	2470	2340	3580	3120	2830	2620	2470	2340	3420	3000	2730	2540	2390	2270
210×126	4410	3860	3510	3260	3070	2920	4410	3860	3510	3260	3070	2920	4410	3860	3510	3260	3070	2920	4300	3860	3510	3260	3070	2920	4100	3710	3410	3170	2990	2840
252×126	5220	4590	4180	3890	3670	3490	5220	4590	4180	3890	3670	3490	5220	4590	4180	3890	3670	3490	4920	4460	4150	3890	3670	3490	4690	4250	3960	3750	3580	3400
294×126	6010	5310	4850	4520	4260	4050	6010	5310	4850	4520	4260	4050	6010	5310	4850	4520	4260	4050	5530	5010	4670	4420	4220	4050	5270	4770	4450	4210	4020	3870
336×126	6790	6020	5510	5140	4850	4620	6790	6020	5510	5140	4850	4620	6790	6020	5510	5140	4850	4620	6120	5540	5160	4890	4670	4500	5830	5280	4920	4660	4450	4290
378×126	7540	6710	6160	5750	5430	5170	7540	6710	6160	5750	5430	5170	7540	6710	6160	5750	5430	5170	6880	6050	5640	5340	5100	4910	6370	5770	5380	5090	4860	4680

a. All dimension units are in millimeters.

Table 47.5: Red Stag GLT_h10 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Light Configuration						GL10						0°–25°						Considering wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2870	2480	2240	2070	1940	1840	2870	2480	2240	2070	1940	1840	2870	2480	2240	2070	1940	1840	2870	2480	2240	2070	1940	1840	2230	2110	1940	1810	1700	1610
168×88	3530	3280	2970	2750	2580	2450	3200	3200	2970	2750	2580	2450	2850	2850	2850	2750	2580	2450	2820	2620	2620	2560	2410	2290	2460	2460	2450	2300	2170	2060
210×88	3750	3750	3690	3420	3210	3050	3450	3450	3450	3420	3210	3050	3070	3070	3070	3070	3030	2820	2820	2820	2820	2820	2750	2650	2650	2650	2650	2610	2490	
252×88	3920	3920	3920	3920	3840	3650	3650	3650	3650	3650	3650	3650	3260	3260	3260	3260	3260	3260	3000	3000	3000	3000	3000	2810	2810	2810	2810	2810	2810	
294×88	4080	4080	4080	4080	4080	3790	3790	3790	3790	3790	3790	3440	3440	3440	3440	3440	3440	3160	3160	3160	3160	3160	3160	2960	2960	2960	2960	2960	2960	
336×88	4220	4220	4220	4220	4220	3920	3920	3920	3920	3920	3920	3600	3600	3600	3600	3600	3600	3300	3300	3300	3300	3300	3100	3100	3100	3100	3100	3100	3100	
378×88	4340	4340	4340	4340	4340	4040	4040	4040	4040	4040	4040	3700	3700	3700	3700	3700	3700	3440	3440	3440	3440	3440	3440	3220	3220	3220	3220	3220	3220	
420×88	4460	4460	4460	4460	4460	4150	4150	4150	4150	4150	4150	3800	3800	3800	3800	3800	3800	3560	3560	3560	3560	3560	3560	3340	3340	3340	3340	3340	3340	
126×126	3190	2770	2500	2320	2180	2070	3190	2770	2500	2320	2180	2070	3190	2770	2500	2320	2180	2070	2940	2580	2350	2180	2050	1950	2760	2420	2200	2050	1930	1830
168×126	4190	3650	3310	3070	2890	2740	4190	3650	3310	3070	2890	2740	3960	3650	3310	3070	2890	2740	3710	3440	3130	2910	2740	2610	3520	3230	2940	2730	2570	2440
210×126	4910	4520	4110	3820	3600	3420	4560	4520	4110	3820	3600	3420	4180	4180	4090	3820	3600	3420	3930	3930	3830	3630	3430	3260	3740	3740	3660	3420	3220	3060
252×126	5140	5140	4900	4560	4290	4080	4780	4780	4780	4560	4290	4080	4380	4380	4380	4380	4240	4080	4110	4110	4110	4110	3980	3920	3920	3920	3920	3920	3920	
294×126	5340	5340	5340	5290	4990	4750	4960	4960	4960	4960	4960	4750	4550	4550	4550	4550	4550	4550	4270	4270	4270	4270	4270	4070	4070	4070	4070	4070	4070	
336×126	5520	5520	5520	5520	5520	5300	5130	5130	5130	5130	5130	5130	4710	4710	4710	4710	4710	4710	4420	4420	4420	4420	4420	4210	4210	4210	4210	4210	4210	
378×126	5690	5690	5690	5690	5690	5690	5290	5290	5290	5290	5290	5290	4850	4850	4850	4850	4850	4850	4550	4550	4550	4550	4550	4340	4340	4340	4340	4340	4340	
420×126	5840	5840	5840	5840	5840	5840	5430	5430	5430	5430	5430	5430	4980	4980	4980	4980	4980	4980	4670	4670	4670	4670	4670	4450	4450	4450	4450	4450	4450	

a. All dimension units are in millimeters.

Table 47.6: Red Stag GLT_h8 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Light Configuration						GL8						0°–25°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2870	2480	2240	2070	1940	1840	2870	2480	2240	2070	1940	1840	2870	2480	2240	2070	1940	1840	2610	2290	2080	1940	1820	1730	2450	2150	1960	1820	1710	1630
168×88	3790	3280	2970	2750	2580	2450	3790	3280	2970	2750	2580	2450	3740	3280	2970	2750	2580	2450	3490	3050	2780	2580	2430	2310	3270	2870	2610	2420	2280	2170
210×88	4690	4070	3690	3420	3210	3050	4690	4070	3690	3420	3210	3050	4430	4010	3690	3420	3210	3050	4150	3760	3480	3230	3040	2890	3560	3580	3260	3030	2850	2710
252×88	5590	4850	4400	4080	3840	3650	5530	4850	4400	4080	3840	3650	5070	4600	4280	4050	3840	3650	4760	4310	4020	3800	3630	3470	4540	4110	3830	3620	3420	3250
294×88	6420	5620	5110	4750	4470	4240	6210	5620	5110	4750	4470	4240	5700	5160	4810	4550	4350	4190	5340	4840	4510	4270	4080	3930	5090	4610	4300	4070	3890	3740
336×88	7270	6380	5810	5400	5090	4840	6870	6380	5810	5400	5090	4840	6300	6220	5800	5400	5090	4840	5910	5350	4990	4720	4510	4340	5630	5100	4760	4500	4300	4140
378×88	8070	7140	6510	6060	5710	5430	7500	6800	6340	6000																				

Table 47.10: Red Stag GLT_h8 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Light Configuration						GL8						0°–25°						Ignoring wind face load										
Beam Size	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	3010	2600	2340	2170	2030	1930	3010	2600	2340	2170	2030	1930	2980	2600	2340	2170	2030	1930	2740	2400	2180	2030	1910	1820	2570	2250	2050	1900	1790	1700
168×88	3970	3440	3110	2880	2700	2560	3970	3440	3110	2880	2700	2560	3880	3440	3110	2880	2700	2560	3640	3200	2910	2710	2550	2420	3430	3000	2730	2540	2390	2270
210×88	4910	4270	3860	3580	3370	3200	4910	4270	3860	3580	3370	3200	4580	4150	3860	3580	3370	3200	4300	3900	3630	3380	3190	3030	4100	3710	3420	3180	2990	2840
252×88	5830	5080	4620	4280	4030	3820	5730	5080	4620	4280	4030	3820	5260	4760	4440	4200	4020	3820	4930	4470	4160	3940	3770	3620	4700	4260	3970	3760	3590	3410
294×88	6730	5890	5350	4970	4680	4450	6430	5890	5350	4970	4680	4450	5900	5340	4980	4710	4510	4340	5530	5010	4670	4420	4230	4070	5280	4780	4450	4220	4030	3880
336×88	7620	6690	6090	5660	5340	5070	7120	6450	6010	5660	5340	5070	6520	5910	5510	5210	4980	4800	6120	5540	5170	4890	4670	4500	5830	5290	4930	4660	4460	4290
378×88	8380	7470	6820	6340	5980	5690	7770	7040	6560	6210	5930	5690	7120	6450	6010	5690	5440	5240	6680	6050	5640	5340	5100	4910	6370	5780	5380	5090	4870	4680
126×126	3350	2900	2620	2430	2280	2170	3350	2900	2620	2430	2280	2170	3350	2900	2620	2430	2280	2170	3090	2710	2460	2290	2150	2050	2900	2540	2310	2150	2020	1920
168×126	4390	3830	3470	3220	3030	2880	4390	3830	3470	3220	3030	2880	4240	3830	3470	3220	3030	2880	3980	3600	3280	3050	2870	2730	3790	3390	3080	2860	2700	2560
210×126	5410	4740	4310	4000	3770	3580	5410	4740	4310	4000	3770	3580	5020	4550	4240	4000	3770	3580	4710	4260	3970	3760	3590	3420	4490	4060	3790	3580	3370	3200
252×126	6400	5630	5130	4770	4500	4280	6270	5630	5130	4770	4500	4280	5750	5210	4850	4590	4390	4230	5390	4890	4550	4310	4120	3960	5140	4660	4340	4110	3930	3780
294×126	7370	6510	5950	5540	5230	4970	7040	6380	5940	5540	5230	4970	6460	5850	5450	5160	4930	4750	6060	5490	5110	4840	4630	4450	5770	5230	4870	4610	4410	4250
336×126	8320	7370	6750	6300	5950	5660	7780	7050	6570	6220	5940	5660	7140	6470	6020	5700	5450	5250	6690	6060	5650	5350	5110	4920	6380	5780	5390	5100	4870	4690
378×126	9140	8220	7540	7050	6660	6340	8500	7700	7180	6790	6490	6250	7800	7060	6580	6230	5950	5730	7310	6630	6170	5840	5590	5380	6970	6320	5890	5570	5330	5130

a. All dimension units are in millimeters.

Table 47.11: Red Stag GLT_h12 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Light Configuration						GL12						25°–45°						Considering wind face load										
Beam Size	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2770	2390	2160	1990	1870	1770	2770	2390	2160	1990	1870	1770	2710	2390	2160	1990	1870	1770	2490	2380	2160	1990	1870	1770	2340	2250	2050	1900	1790	1700
168×88	3650	3160	2860	2650	2490	2360	3650	3160	2860	2650	2490	2360	2990	2990	2860	2650	2490	2360	2750	2750	2750	2650	2490	2360	2580	2580	2580	2470	2320	2200
210×88	3880	3880	3560	3300	3100	2940	3610	3610	3560	3300	3100	2940	3220	3220	3220	3220	3100	2940	3160	2960	2960	2960	2840	2770	2770	2770	2770	2770	2650	
252×88	4070	4070	4070	3940	3710	3520	3780	3780	3780	3780	3710	3520	3420	3420	3420	3420	3420	3420	3140	3140	3140	3140	3140	3140	2950	2950	2950	2950	2950	2950
294×88	4220	4220	4220	4220	4220	4090	3930	3930	3930	3930	3930	3930	3600	3600	3600	3600	3600	3600	3310	3310	3310	3310	3310	3310	3100	3100	3100	3100	3100	3100
336×88	4360	4360	4360	4360	4360	4360	4060	4060	4060	4060	4060	4060	3720	3720	3720	3720	3720	3720	3460	3460	3460	3460	3460	3460	3240	3240	3240	3240	3240	3240
378×88	4500	4500	4500	4500	4500	4500	4180	4180	4180	4180	4180	4180	3830	3830	3830	3830	3830	3830	3600	3600	3600	3600	3600	3600	3380	3380	3380	3380	3380	3380
420×88	4620	4620	4620	4620	4620	4620	4290	4290	4290	4290	4290	4290	3940	3940	3940	3940	3940	3940	3690	3690	3690	3690	3690	3690	3500	3500	3500	3500	3500	3500
126×126	3080	2670	2410	2240	2100	1990	3080	2670	2410	2240	2100	1990	3080	2670	2410	2240	2100	1990	3080	2670	2410	2240	2100	1990	2900	2540	2310	2150	2020	1920
168×126	4040	3520	3200	2960	2790	2650	4040	3520	3200	2960	2790	2650	4040	3520	3200	2960	2790	2650	3840	3520	3200	2960	2790	2650	3660	3380	3080	2860	2700	2560
210×126	4980	4360	3970	3690	3470	3300	4730	4360	3970	3690	3470	3300	4330	4330	3970	3690	3470	3300	4070	4070	3970	3690	3470	3300	3880	3680	3390	3180	3030	3200
252×126	5320	5180	4720	4390	4140	3940	4950	4950	4720	4390	4140	3940	4540	4540	4540	4390	4140	3940	4250	4250	4250	4250	4120	3940	4060	4060	4060	3930	3780	3780
294×126	5530	5530	5480	5100	4810	4580	5140	5140	5140	5100	4810	4580	4720	4720	4720	4720	4720	4720	4420	4420	4420	4420	4420	4420	4220	4220	4220	4220	4220	4220
336×126	5720	5720	5720	5720	5720	5720	5320	5320	5320	5320	5320	5320	4870	4870	4870	4870	4870	4870	4570	4570	4570	4570	4570	4570	4360	4360	4360	4360	4360	4360
378×126	5890	5890	5890	5890	5890	5890	5480	5480	5480	5480	5480	5480	5020	5020	5020	5020	5020	5020	4710	4710	4710	4710	4710	4710	4490	4490	4490	4490	4490	4490
420×126	6040	6040	6040	6040	6040	6040	5620	5620	5620	5620	5620	5620	5150	5150	5150	5150	5150	5150	4830	4830	4830	4830	4830	4830	4610	4610	4610	4610	4610	4610

a. All dimension units are in millimeters.

Table 47.12: Red Stag GLT_h8 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Light Configuration						GL8						25°–45°						Ignoring wind face load										
Beam Size	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2770	2390	2160	1990	1870	1770	2770	2390	2160	1990	1870	1770	2710	2390	2160	1990	1870	1770	2740	2380	2160	1990	1870	1770	2570	2250	2050	1900	1790	1700
168×88	3650	3160	2860	2650	2490	2360	3650	3160	2860	2650	2490	2360	3650	3160	2860	2650	2490	2360	3640	3160	2860	2650	2490	2360	3430	3000	2730	2540	2390	2270
210×88	4520	3930	3560	3300	3100	2940	4520	3930	3560	3300	3100	2940	4520	3930	3560	3300	3100	2940	4300	3900	3630	3380	3190	3030	4100	3710	3420	3180	2990	2840
252×88	5370	4680	4250	3940	3710	3520	5370	4680	4250	3940	3710	3520	5260	4680	4250	3940	3710	3520	4930	4470	4160	3940	3770	3620	4700	4260	3970	3760	3590	3410
294×88	6200	5420	4930	4580	4310	4090	6200	5420	4930	4580	4310	4090	5900	5340	4930	4580	4310	4090	5530	5010	4670	4420	4230	4070	5280	4780	4450	4220	4030	3880
336×88	7020	6160	5610	5210	4910	4670	7020	6160	5610	5210	4910	4670	6520	5910	5510	5210	4910	4670	6120	5540	5170	4890	4670	4500	5830	5290	4930	4660	4460	4290
378×88	7810	6880	6280	5840	5510	5240	7770	6880																						

Table 47.19: Red Stag GLT_h10 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Heavy Configuration						GL10						25°–45°						Considering wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280
168×88	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710
210×88	3360	2880	2600	2400	2250	2130	3310	2880	2600	2400	2250	2130	2950	2880	2600	2400	2250	2130	2710	2710	2600	2400	2250	2130	2540	2540	2540	2400	2250	2130
252×88	3810	3450	3110	2870	2700	2560	3520	3450	3110	2870	2700	2560	3140	3140	3110	2870	2700	2560	2880	2880	2880	2870	2700	2560	2700	2700	2700	2700	2630	2490
294×88	3960	3960	3620	3350	3140	2980	3680	3680	3620	3350	3140	2980	3310	3310	3310	3310	3140	2980	3040	3040	3040	3040	3040	2980	2850	2850	2850	2850	2850	2830
336×88	4090	4090	4090	3820	3590	3400	3810	3810	3810	3810	3590	3400	3460	3460	3460	3460	3460	3400	3170	3170	3170	3170	3170	3170	2980	2980	2980	2980	2980	2980
378×88	4220	4220	4220	4030	3820	3620	3920	3920	3920	3920	3820	3620	3600	3600	3600	3600	3600	3600	3300	3300	3300	3300	3300	3300	3100	3100	3100	3100	3100	3100
420×88	4330	4330	4330	4330	4330	4240	4030	4030	4030	4030	4030	4030	3690	3690	3690	3690	3690	3690	3420	3420	3420	3420	3420	3420	3210	3210	3210	3210	3210	3210
126×126	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440
168×126	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920
210×126	3740	3230	2910	2690	2530	2400	3740	3230	2910	2690	2530	2400	3740	3230	2910	2690	2530	2400	3740	3230	2910	2690	2530	2400	3630	3230	2910	2690	2530	2400
252×126	4460	3860	3490	3230	3030	2870	4460	3860	3490	3230	3030	2870	4250	3860	3490	3230	3030	2870	3990	3860	3490	3230	3030	2870	3800	3800	3490	3230	3030	2870
294×126	5170	4480	4060	3760	3530	3350	4820	4480	4060	3760	3530	3350	4420	4420	4060	3760	3530	3350	4150	4150	4060	3760	3530	3350	3950	3950	3950	3950	3950	3350
336×126	5360	5100	4620	4280	4020	3820	4980	4980	4620	4280	4020	3820	4570	4570	4570	4280	4020	3820	4290	4290	4290	4280	4020	3820	4090	4090	4090	4090	4020	3820
378×126	5520	5520	5180	4810	4520	4290	5130	5130	5130	4810	4520	4290	4710	4710	4710	4710	4520	4290	4420	4420	4420	4420	4420	4420	4210	4210	4210	4210	4210	4210
420×126	5670	5670	5670	5330	5010	4760	5270	5270	5270	5270	5010	4760	4830	4830	4830	4830	4830	4760	4530	4530	4530	4530	4530	4530	4320	4320	4320	4320	4320	4320

a. All dimension units are in millimeters.

Table 47.20: Red Stag GLT_h10 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Heavy Configuration						GL10						25°–45°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280	2030	1740	1570	1440	1350	1280
168×88	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710	2700	2310	2080	1920	1800	1710
210×88	3360	2880	2600	2400	2250	2130	3360	2880	2600	2400	2250	2130	3360	2880	2600	2400	2250	2130	3360	2880	2600	2400	2250	2130	3360	2880	2600	2400	2250	2130
252×88	4010	3450	3110	2870	2700	2560	4010	3450	3110	2870	2700	2560	4010	3450	3110	2870	2700	2560	4010	3450	3110	2870	2700	2560	4010	3450	3110	2870	2700	2560
294×88	4650	4010	3620	3350	3140	2980	4650	4010	3620	3350	3140	2980	4650	4010	3620	3350	3140	2980	4650	4010	3620	3350	3140	2980	4650	4010	3620	3350	3140	2980
336×88	5290	4570	4130	3820	3590	3400	5290	4570	4130	3820	3590	3400	5290	4570	4130	3820	3590	3400	5290	4570	4130	3820	3590	3400	5290	4570	4130	3820	3590	3400
378×88	5930	5130	4640	4290	4030	3820	5930	5130	4640	4290	4030	3820	5930	5130	4640	4290	4030	3820	5930	5130	4640	4290	4030	3820	5930	5130	4640	4290	4030	3820
126×126	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440	2280	1950	1760	1620	1520	1440
168×126	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920	3020	2590	2340	2160	2030	1920
210×126	3740	3230	2910	2690	2530	2400	3740	3230	2910	2690	2530	2400	3740	3230	2910	2690	2530	2400	3740	3230	2910	2690	2530	2400	3740	3230	2910	2690	2530	2400
252×126	4460	3860	3490	3230	3030	2870	4460	3860	3490	3230	3030	2870	4460	3860	3490	3230	3030	2870	4460	3860	3490	3230	3030	2870	4460	3860	3490	3230	3030	2870
294×126	5170	4480	4060	3760	3530	3350	5170	4480	4060	3760	3530	3350	5170	4480	4060	3760	3530	3350	5170	4480	4060	3760	3530	3350	5170	4480	4060	3760	3530	3350
336×126	5870	5100	4620	4280	4020	3820	5870	5100	4620	4280	4020	3820	5870	5100	4620	4280	4020	3820	5870	5100	4620	4280	4020	3820	5870	5100	4620	4280	4020	3820
378×126	6560	5710	5180	4810	4520	4290	6560	5710	5180	4810	4520	4290	6560	5710	5180	4810	4520	4290	6560	5710	5180	4810	4520	4290	6560	5710	5180	4810	4520	4290

a. All dimension units are in millimeters.

Table 47.21: Red Stag GLT_h12 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Heavy Configuration						GL12						0°–25°						Considering wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460
168×88	3070	2630	2370	2190	2050	1940	3070	2630	2370	2190	2050	1940	2880	2630	2370	2190	2050	1940	2640	2630	2370	2190	2050	1940	2480	2480	2370	2190	2050	1940
210×88	3770	3280	2960	2730	2560	2430	3470	3280	2960	2730	2560	2430	3090	3090	2960	2730	2560	2430	2840	2840	2840	2730	2560	2430	2670	2670	2670	2670	2520	2390
252×88	3950	3930	3540	3270	3070	2910	3670	3670	3540	3270	3070	2910	3290	3290	3290	3270	3070	2910	3020	3020	3020	3020	3020	2910	2840	2840	2840	2840	2840	2780
294×88	4100	4100	4100	3810	3580	3390	3810	3810	3810	3810	3580	3390	3460	3460	3460	3460	3460	3460	3390	3180	3180	3180	3180	3180	2980	2980	2980	2980	2980	2980
336×88	4240	4240	4240	4240	4090	3870	3940	3940	3940	3940	3940	3870	3610	3610	3610	3610	3610	3610	3320	3320	3320	3320	3320	3320	3120	3120	3120	3120	3120	3120

Table 47.22: Red Stag GLT_h12 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Heavy Configuration						GL12						0°–25°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460	2320	1980	1780	1640	1540	1460
168×88	3070	2630	2370	2190	2050	1940	3070	2630	2370	2190	2050	1940	3070	2630	2370	2190	2050	1940	3070	2630	2370	2190	2050	1940	3070	2630	2370	2190	2050	1940
210×88	3820	3280	2960	2730	2560	2430	3820	3280	2960	2730	2560	2430	3820	3280	2960	2730	2560	2430	3820	3280	2960	2730	2560	2430	3820	3280	2960	2730	2560	2430
252×88	4560	3930	3540	3270	3070	2910	4560	3930	3540	3270	3070	2910	4560	3930	3540	3270	3070	2910	4560	3930	3540	3270	3070	2910	4560	3930	3540	3270	3070	2910
294×88	5300	4570	4120	3810	3580	3390	5300	4570	4120	3810	3580	3390	5300	4570	4120	3810	3580	3390	5300	4570	4120	3810	3580	3390	5300	4570	4120	3810	3580	3390
336×88	6030	5210	4700	4350	4090	3870	6030	5210	4700	4350	4090	3870	6030	5210	4700	4350	4090	3870	6030	5210	4700	4350	4090	3870	6030	5210	4700	4350	4090	3870
378×88	6750	5840	5280	4880	4590	4350	6750	5840	5280	4880	4590	4350	6750	5840	5280	4880	4590	4350	6750	5840	5280	4880	4590	4350	6750	5840	5280	4880	4590	4350
126×126	2590	2220	2000	1850	1730	1640	2590	2220	2000	1850	1730	1640	2590	2220	2000	1850	1730	1640	2590	2220	2000	1850	1730	1640	2590	2220	2000	1850	1730	1640
168×126	3430	2950	2660	2460	2310	2190	3430	2950	2660	2460	2310	2190	3430	2950	2660	2460	2310	2190	3430	2950	2660	2460	2310	2190	3430	2950	2660	2460	2310	2190
210×126	4260	3680	3320	3070	2880	2730	4260	3680	3320	3070	2880	2730	4260	3680	3320	3070	2880	2730	4260	3680	3320	3070	2880	2730	4260	3680	3320	3070	2880	2730
252×126	5080	4390	3970	3670	3450	3270	5080	4390	3970	3670	3450	3270	5080	4390	3970	3670	3450	3270	5080	4390	3970	3670	3450	3270	5080	4390	3970	3670	3450	3270
294×126	5890	5100	4620	4280	4020	3810	5890	5100	4620	4280	4020	3810	5890	5100	4620	4280	4020	3810	5890	5100	4620	4280	4020	3810	5890	5100	4620	4280	4020	3810
336×126	6680	5810	5260	4870	4580	4350	6680	5810	5260	4870	4580	4350	6680	5810	5260	4870	4580	4350	6680	5810	5260	4870	4580	4350	6680	5810	5260	4870	4580	4350
378×126	7470	6500	5900	5470	5140	4880	7470	6500	5900	5470	5140	4880	7470	6500	5900	5470	5140	4880	7470	6500	5900	5470	5140	4880	7470	6500	5900	5470	5140	4880

a. All dimension units are in millimeters.

Table 47.23: Red Stag GLT_h12 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Heavy Configuration						GL12						25°–45°						Considering wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340
168×88	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790
210×88	3520	3020	2720	2520	2360	2240	3470	3020	2720	2520	2360	2240	3090	3020	2720	2520	2360	2240	2840	2840	2720	2520	2360	2240	2670	2670	2670	2520	2360	2240
252×88	3950	3620	3260	3010	2830	2680	3670	3620	3260	3010	2830	2680	3290	3290	3260	3010	2830	2680	3020	3020	3020	3010	2830	2680	2840	2840	2840	2840	2800	2660
294×88	4100	4100	3790	3510	3290	3120	3810	3810	3790	3510	3290	3120	3460	3460	3460	3460	3290	3120	3180	3180	3180	3180	3180	3120	2980	2980	2980	2980	2980	2980
336×88	4240	4240	4240	4010	3760	3570	3940	3940	3940	3760	3570	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3320	3120	3120	3120	3120	3120	3120
378×88	4370	4370	4370	4370	4220	4010	4060	4060	4060	4060	4060	4010	3720	3720	3720	3720	3720	3720	3460	3460	3460	3460	3460	3460	3250	3250	3250	3250	3250	3250
420×88	4480	4480	4480	4480	4480	4450	4170	4170	4170	4170	4170	4170	3820	3820	3820	3820	3820	3580	3580	3580	3580	3580	3580	3360	3360	3360	3360	3360	3360	3360
126×126	2390	2050	1840	1700	1600	1510	2390	2050	1840	1700	1600	1510	2390	2050	1840	1700	1600	1510	2390	2050	1840	1700	1600	1510	2390	2050	1840	1700	1600	1510
168×126	3160	2720	2450	2260	2120	2010	3160	2720	2450	2260	2120	2010	3160	2720	2450	2260	2120	2010	3160	2720	2450	2260	2120	2010	3160	2720	2450	2260	2120	2010
210×126	3930	3380	3060	2830	2650	2510	3930	3380	3060	2830	2650	2510	3930	3380	3060	2830	2650	2510	3930	3380	3060	2830	2650	2510	3760	3380	3060	2830	2650	2510
252×126	4670	4040	3650	3380	3170	3010	4670	4040	3650	3380	3170	3010	4400	4040	3650	3380	3170	3010	4130	4040	3650	3380	3170	3010	3940	3940	3650	3380	3170	3010
294×126	5370	4700	4250	3940	3700	3510	4990	4700	4250	3940	3700	3510	4580	4580	4250	3940	3700	3510	4290	4290	4250	3940	3700	3510	4090	4090	4090	3940	3700	3510
336×126	5550	5340	4840	4490	4220	4000	5160	5160	4840	4490	4220	4000	4730	4730	4730	4490	4220	4000	4440	4440	4440	4440	4220	4000	4230	4230	4230	4230	4000	4000
378×126	5720	5720	5430	5030	4730	4490	5320	5320	5320	5030	4730	4490	4880	4880	4880	4880	4880	4730	4490	4570	4570	4570	4570	4490	4360	4360	4360	4360	4360	4360
420×126	5870	5870	5870	5580	5250	4990	5460	5460	5460	5460	5250	4990	5000	5000	5000	5000	5000	4990	4690	4690	4690	4690	4690	4690	4480	4480	4480	4480	4480	4480

a. All dimension units are in millimeters.

Table 47.24: Red Stag GLT_h12 Roof Lintel Beam Span Table ^a

GLT _h Roof Lintels		Heavy Configuration						GL12						25°–45°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340	2130	1820	1640	1510	1420	1340
168×88	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790	2830	2420	2180	2020	1890	1790
210×88	3520	3020	2720	2520	2360	2240	3520	3020	2720	2520	2360	2240	3520	3020	2720	2520	2360	2240	3520	3020	2720	2520	2360	2240	3520	3020	2720	2520	2360	2240
252×88	4200	3620	3260	3010	2830	2680	4200	3620	3260	3010	2830	2680	4200	3620	3260	3010	2830	2680	4200	3620	3260	3010	2830	2680	4200	3620	3260	3010	2830	2680
294×88	4880	4200	3790	3510	3290	3120	4880	4200	3790	3510	3290	3120	4880	4200	3790	3510	3290	3120	4880	4200	3790	3510	3290	3120	4880	4200	3790	3510	3290	3120
336×88	5550	4790	4330	4010	3760	3570	5550	4790	4330	4010	3760	3570	5550	4790	4330	4010	3760	3570	5550	4790	4330	4010	3760	3570	5550	4790	4330	4010	3760	3570

Table 48.1: Red Stag Vertix₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Light Configuration						Vertex ₁₀						0°–25°						Considering wind face load																
Beam Size	Wind Zone																																			
	Low						Medium						High						Very High						Extra High											
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)											
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88x88	1970	1690	1520	1410	1320	1250	1970	1690	1520	1410	1320	1250	1930	1690	1520	1410	1320	1250	1970	1550	1410	1310	1240	1170	1660	1460	1330	1230	1160	1100						
140x88	3090	2670	2410	2230	2090	1990	2930	2670	2410	2230	2090	1990	2610	2610	2410	2230	2090	1990	2400	2400	2250	2090	1970	1870	2250	2240	2070	1930	1820	1720						
190x88	3580	3580	3250	3010	2830	2690	3240	3240	3240	3010	2830	2690	2890	2890	2890	2890	2830	2690	2650	2650	2650	2650	2610	2480	2490	2490	2480	2350	2230							
240x88	3800	3800	3800	3790	3560	3380	3510	3510	3510	3510	3510	3380	3120	3120	3120	3120	3120	3120	2870	2870	2870	2870	2870	2870	2690	2690	2690	2690	2690	2690						
290x88	3980	3980	3980	3980	3980	3980	3700	3700	3700	3700	3700	3700	3330	3330	3330	3330	3330	3330	3060	3060	3060	3060	3060	3060	2870	2870	2870	2870	2870	2870						
300x88	4010	4010	4010	4010	4010	4010	3730	3730	3730	3730	3730	3730	3370	3370	3370	3370	3370	3370	3090	3090	3090	3090	3090	3090	2900	2900	2900	2900	2900	2900						
315x88	4060	4060	4060	4060	4060	4060	3780	3780	3780	3780	3780	3780	3420	3420	3420	3420	3420	3420	3140	3140	3140	3140	3140	3140	2900	2900	2900	2900	2900	2900						
350x88	4170	4170	4170	4170	4170	4170	3880	3880	3880	3880	3880	3880	3540	3540	3540	3540	3540	3540	3250	3250	3250	3250	3250	3250	3050	3050	3050	3050	3050	3050						
360x88	4200	4200	4200	4200	4200	4200	3910	3910	3910	3910	3910	3910	3580	3580	3580	3580	3580	3580	3290	3290	3290	3290	3290	3290	3080	3080	3080	3080	3080	3080						
400x88	4310	4310	4310	4310	4310	4310	4010	4010	4010	4010	4010	4010	3680	3680	3680	3680	3680	3680	3400	3400	3400	3400	3400	3400	3190	3190	3190	3190	3190	3190						
405x88	4330	4330	4330	4330	4330	4330	4020	4020	4020	4020	4020	4020	3690	3690	3690	3690	3690	3690	3420	3420	3420	3420	3420	3420	3210	3210	3210	3210	3210	3210						
450x88	4440	4440	4440	4440	4440	4440	4130	4130	4130	4130	4130	4130	3790	3790	3790	3790	3790	3790	3540	3540	3540	3540	3540	3540	3320	3320	3320	3320	3320	3320						
495x88	4550	4550	4550	4550	4550	4550	4230	4230	4230	4230	4230	4230	3880	3880	3880	3880	3880	3880	3640	3640	3640	3640	3640	3640	3430	3430	3430	3430	3430	3430						
500x88	4560	4560	4560	4560	4560	4560	4240	4240	4240	4240	4240	4240	3890	3890	3890	3890	3890	3890	3650	3650	3650	3650	3650	3650	3440	3440	3440	3440	3440	3440						
540x88	4650	4650	4650	4650	4650	4650	4320	4320	4320	4320	4320	4320	3960	3960	3960	3960	3960	3960	3720	3720	3720	3720	3720	3720	3530	3530	3530	3530	3530	3530						
550x88	4670	4670	4670	4670	4670	4670	4340	4340	4340	4340	4340	4340	3980	3980	3980	3980	3980	3980	3740	3740	3740	3740	3740	3740	3550	3550	3550	3550	3550	3550						
595x88	4760	4760	4760	4760	4760	4760	4430	4430	4430	4430	4430	4430	4060	4060	4060	4060	4060	4060	3810	3810	3810	3810	3810	3810	3630	3630	3630	3630	3630	3630						
600x88	4770	4770	4770	4770	4770	4770	4440	4440	4440	4440	4440	4440	4070	4070	4070	4070	4070	4070	3820	3820	3820	3820	3820	3820	3640	3640	3640	3640	3640	3640						
126x126	3100	2690	2430	2250	2120	2010	3100	2690	2430	2250	2120	2010	3100	2690	2430	2250	2120	2010	2860	2510	2280	2120	2000	1900	2690	2360	2140	1990	1880	1780						
250x126	5020	5020	4730	4400	4140	3940	4670	4670	4670	4400	4140	3940	4280	4280	4280	4280	4130	3940	4020	4020	4020	4020	3870	3730	3830	3830	3830	3830	3690	3540						
300x126	5260	5260	5260	5240	4950	4710	4890	4890	4890	4890	4890	4710	4480	4480	4480	4480	4480	4480	4200	4200	4200	4200	4200	4200	4010	4010	4010	4010	4010	4010						
350x126	5460	5460	5460	5460	5460	5460	5080	5080	5080	5080	5080	5080	4660	4660	4660	4660	4660	4660	4370	4370	4370	4370	4370	4370	4170	4170	4170	4170	4170	4170						
400x126	5650	5650	5650	5650	5650	5650	5250	5250	5250	5250	5250	5250	4820	4820	4820	4820	4820	4820	4520	4520	4520	4520	4520	4520	4310	4310	4310	4310	4310	4310						
450x126	5820	5820	5820	5820	5820	5820	5410	5410	5410	5410	5410	5410	4960	4960	4960	4960	4960	4960	4650	4650	4650	4650	4650	4650	4440	4440	4440	4440	4440	4440						
500x126	5970	5970	5970	5970	5970	5970	5550	5550	5550	5550	5550	5550	5090	5090	5090	5090	5090	5090	4780	4780	4780	4780	4780	4780	4550	4550	4550	4550	4550	4550						
550x126	6120	6120	6120	6120	6120	6120	5690	5690	5690	5690	5690	5690	5210	5210	5210	5210	5210	5210	4890	4890	4890	4890	4890	4890	4660	4660	4660	4660	4660	4660						
600x126	6250	6250	6250	6250	6250	6250	5810	5810	5810	5810	5810	5810	5330	5330	5330	5330	5330	5330	5000	5000	5000	5000	5000	5000	4770	4770	4770	4770	4770	4770						
650x126	6380	6380	6380	6380	6380	6380	5930	5930	5930	5930	5930	5930	5440	5440	5440	5440	5440	5440	5100	5100	5100	5100	5100	5100	4860	4860	4860	4860	4860	4860						
700x126	6500	6500	6500	6500	6500	6500	6040	6040	6040	6040	6040	6040	5540	5540	5540	5540	5540	5540	5200	5200	5200	5200	5200	5200	4950	4950	4950	4950	4950	4950						
750x126	6610	6610	6610	6610	6610	6610	6150	6150	6150	6150	6150	6150	5640	5640	5640	5640	5640	5640	5290	5290	5290	5290	5290	5290	5040	5040	5040	5040	5040	5040						
800x126	6720	6720	6720	6720	6720	6720	6250	6250	6250	6250	6250	6250	5730	5730	5730	5730	5730	5730	5370	5370	5370	5370	5370	5370	5120	5120	5120	5120	5120	5120						
850x126	6820	6820	6820	6820	6820	6820	6340	6340	6340	6340	6340	6340	5820	5820	5820	5820	5820	5820	5450	5450	5450	5450	5450	5450	5200	5200	5200	5200	5200	5200						
900x126	6920	6920	6920	6920	6920	6920	6430	6430	6430	6430	6430	6430	5900	5900	5900	5900	5900	5900	5530	5530	5530	5530	5530	5530	5280	5280	5280	5280	5280	5280						
950x126	7010	7010	7010	7010	7010	7010	6520	6520	6520	6520	6520	6520	5980	5980	5980	5980	5980	5980	5610	5610	5610	5610	5610	5610	5350	5350	5350	5350	5350	5350						
1000x126	7100	7100	7100	7100	7100	7100	6610	6610	6610	6610	6610	6610	6060	6060	6060	6060	6060	6060	5680	5680	5680	5680	5680	5680	5420	5420	5420	5420	5420	5420						
210x210	5690	5060	4630	4320	4080	3890	5690	5060	4630	4320	4080	3890	5390	4880	4550	4310	4080	3890	5060	4580	4270	4040	3860	3720	4820	4370	4070	3850	3680	3530						
400x210	8290	8290	8290	7920	7520	7200	7710	7710	7710	7620	7280	7010	7070	7070	7070	6980	6680	6430	6630	6630	6630	6630	6550	6260	6030	6320	6320	6320	6250	5970	5750					
450x210	8530	8530	8530	8530	8400	8040	7940	7940	7940	7940	7940	7940	7660	7280	7280	7280	7280	7280	7020	6830	6830	6830	6830	6830	6590	6510	6510	6510	6280	6280						
500x210	8760	8760	8760	8760	8760	8760	8150	8150	8150	8150	8150	8150	7850	7470	7470	7470	7470	7470	7010	7010	7010	7010	7010	7010	6680	6680	6680	6680	6680	6680						
550x210	8970	8970	8970	8970	8970	8970	8340	8340	8340	8340	8340	8340	8340	7650	7650	7650	7650	7650	7180	7180	7180	7180	7180	7180	6840	6840	6840	6840	6840	6840						
600x210	9170	9170	9170	9170	9170	9170	8530	8530	8530	8530	8530	8530	8530	7820	7820	7820	7820	7820	7340	7340	7340	7340	73													

Table 48.2: Red Stag Vertex₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Light Configuration						Vertex ₁₀						0°–25°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88	1970	1690	1520	1410	1320	1250	1970	1690	1520	1410	1320	1250	1930	1690	1520	1410	1320	1250	1770	1550	1410	1310	1240	1170	1660	1460	1330	1230	1160	1100
140×88	3090	2670	2410	2230	2090	1990	3090	2670	2410	2230	2090	1990	3070	2670	2410	2230	2090	1990	2820	2470	2250	2090	1970	1870	2650	2320	2110	1960	1850	1760
190×88	4140	3590	3250	3010	2830	2690	4140	3590	3250	3010	2830	2690	4020	3590	3250	3010	2830	2690	3770	3360	3060	2840	2680	2540	3600	3150	2870	2670	2510	2390
240×88	5170	4500	4090	3790	3560	3380	5170	4500	4090	3790	3560	3380	4790	4340	4050	3790	3560	3380	4500	4070	3790	3590	3380	3210	4290	3880	3620	3370	3170	3010
290×88	6170	5400	4910	4560	4290	4080	6020	5400	4910	4560	4290	4080	5520	5000	4660	4410	4220	4060	5180	4690	4370	4140	3960	3810	4940	4480	4170	3950	3770	3630
300×88	6370	5580	5070	4710	4430	4210	6180	5580	5070	4710	4430	4210	5670	5130	4780	4530	4330	4170	5320	4820	4490	4250	4060	3910	5070	4590	4280	4050	3870	3730
315×88	6660	5840	5310	4940	4650	4420	6410	5810	5310	4940	4650	4420	5880	5320	4960	4700	4490	4320	5510	4990	4650	4410	4210	4050	5260	4760	4440	4200	4010	3860
350×88	7340	6450	5880	5470	5150	4900	6940	6290	5860	5470	5150	4900	6360	5760	5370	5080	4860	4680	5970	5410	5040	4770	4560	4390	5690	5150	4800	4550	4350	4180
360×88	7540	6630	6040	5620	5300	5040	7090	6420	5980	5620	5300	5040	6500	5890	5490	5190	4960	4780	6090	5520	5150	4870	4660	4480	5810	5260	4910	4640	4440	4270
400×88	8250	7320	6680	6220	5870	5580	7670	6950	6470	6130	5860	5580	7030	6370	5940	5620	5370	5170	6600	5980	5570	5270	5040	4850	5700	5020	4680	4430	4230	4080
126×126	3100	2690	2430	2250	2120	2010	3100	2690	2430	2250	2120	2010	3100	2690	2430	2250	2120	2010	2860	2510	2280	2120	2000	1900	2690	2360	2140	1990	1880	1780
250×126	5900	5190	4730	4400	4140	3940	5900	5190	4730	4400	4140	3940	5410	4900	4560	4320	4130	3940	5070	4590	4280	4050	3870	3730	4830	4380	4080	3860	3690	3540
300×126	6970	6160	5630	5240	4950	4710	6760	6120	5630	5240	4950	4710	6200	5620	5230	4950	4730	4560	5810	5270	4910	4650	4440	4270	5540	5020	4680	4430	4230	4080
350×126	8010	7110	6510	6080	5740	5470	7590	6880	6410	6060	5740	5470	6960	6300	5870	5560	5320	5120	6530	5910	5510	5220	4990	4800	6220	5640	5250	4970	4750	4580
400×126	9020	8040	7390	6900	6520	6220	8390	7600	7080	6700	6410	6170	7690	6970	6490	6150	5880	5660	7220	6540	6090	5770	5510	5310	6880	6230	5810	5500	5250	5060
210×210	5690	5060	4630	4320	4080	3890	5690	5060	4630	4320	4080	3890	5390	4880	4550	4310	4080	3890	5060	4580	4270	4040	3860	3720	4820	4370	4070	3850	3680	3530
400×210	9980	9070	8420	7920	7520	7200	9530	8640	8050	7620	7280	7010	8740	7920	7380	6980	6680	6430	8200	7430	6920	6550	6260	6030	7820	7080	6600	6250	5970	5750

^a. All dimension units are in millimeters.

Table 48.3: Red Stag Vertex₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Light Configuration						Vertex ₁₀						25°–45°						Considering wind face load											
Beam Size	Span	Wind Zone																													
		Low						Medium						High						Very High						Extra High					
		Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000		
88x88	1810	1560	1400	1300	1220	1150	1810	1560	1400	1300	1220	1150	1810	1560	1400	1300	1220	1150	1770	1550	1400	1300	1220	1150	1660	1460	1330	1230	1160	1100	
140x88	2850	2460	2220	2050	1930	1830	2850	2460	2220	2050	1930	1830	2850	2460	2220	2050	1930	1830	2400	2400	2220	2050	1930	1830	2250	2110	1950	1830	1720		
190x88	3580	3310	2990	2770	2610	2470	3240	3240	2990	2770	2610	2470	2890	2890	2890	2770	2610	2470	2650	2650	2650	2650	2530	2400	2490	2490	2490	2350	2230		
240x88	3800	3800	3760	3490	3280	3110	3510	3510	3510	3490	3280	3110	3120	3120	3120	3120	3120	3110	2870	2870	2870	2870	2870	2870	2690	2690	2690	2690	2690		
290x88	3980	3980	3980	3980	3950	3750	3700	3700	3700	3700	3700	3700	3330	3330	3330	3330	3330	3330	3060	3060	3060	3060	3060	3060	2870	2870	2870	2870	2870		
300x88	4010	4010	4010	4010	4010	3880	3730	3730	3730	3730	3730	3730	3370	3370	3370	3370	3370	3370	3090	3090	3090	3090	3090	3090	2900	2900	2900	2900	2900		
315x88	4060	4060	4060	4060	4060	4060	3780	3780	3780	3780	3780	3780	3420	3420	3420	3420	3420	3420	3140	3140	3140	3140	3140	3140	2950	2950	2950	2950	2950		
350x88	4170	4170	4170	4170	4170	4170	3880	3880	3880	3880	3880	3880	3540	3540	3540	3540	3540	3540	3250	3250	3250	3250	3250	3250	3050	3050	3050	3050	3050		
360x88	4200	4200	4200	4200	4200	4200	3910	3910	3910	3910	3910	3910	3580	3580	3580	3580	3580	3580	3290	3290	3290	3290	3290	3290	3080	3080	3080	3080	3080		
400x88	4310	4310	4310	4310	4310	4310	4010	4010	4010	4010	4010	4010	3680	3680	3680	3680	3680	3680	3400	3400	3400	3400	3400	3400	3190	3190	3190	3190	3190		
405x88	4330	4330	4330	4330	4330	4330	4020	4020	4020	4020	4020	4020	3690	3690	3690	3690	3690	3690	3420	3420	3420	3420	3420	3420	3210	3210	3210	3210	3210		
450x88	4440	4440	4440	4440	4440	4440	4130	4130	4130	4130	4130	4130	3790	3790	3790	3790	3790	3790	3540	3540	3540	3540	3540	3540	3320	3320	3320	3320	3320		
495x88	4550	4550	4550	4550	4550	4550	4230	4230	4230	4230	4230	4230	3880	3880	3880	3880	3880	3880	3640	3640	3640	3640	3640	3640	3430	3430	3430	3430	3430		
500x88	4560	4560	4560	4560	4560	4560	4240	4240	4240	4240	4240	4240	3890	3890	3890	3890	3890	3890	3650	3650	3650	3650	3650	3650	3440	3440	3440	3440	3440		
540x88	4650	4650	4650	4650	4650	4650	4320	4320	4320	4320	4320	4320	3960	3960	3960	3960	3960	3960	3720	3720	3720	3720	3720	3720	3530	3530	3530	3530	3530		
550x88	4670	4670	4670	4670	4670	4670	4340	4340	4340	4340	4340	4340	3980	3980	3980	3980	3980	3980	3740	3740	3740	3740	3740	3740	3550	3550	3550	3550	3550		
595x88	4760	4760	4760	4760	4760	4760	4430	4430	4430	4430	4430	4430	4060	4060	4060	4060	4060	4060	3810	3810	3810	3810	3810	3810	3630	3630	3630	3630	3630		
600x88	4770	4770	4770	4770	4770	4770	4440	4440	4440	4440	4440	4440	4070	4070	4070	4070	4070	4070	3820	3820	3820	3820	3820	3820	3640	3640	3640	3640	3640		
126x126	2860	2480	2240	2070	1950	1850	2860	2480	2240	2070	1950	1850	2860	2480	2240	2070	1950	1850	2890	2480	2240	2070	1950	1850	2690	2360	2140	1990	1880	1780	
250x126	5020	4780	4350	4050	3820	3630	4670	4670	4350	4050	3820	3630	4280	4280	4280	4050	3820	3630	4020	4020	4020	4020	4020	3820	3630	3630	3630	3690	3540		
300x126	5260	5260	5180	4830	4550	4330	4890	4890	4890	4890	4890	4890	4480	4480	4480	4480	4480	4480	4200	4200	4200	4200	4200	4200	4010	4010	4010	4010	4010		
350x126	5460	5460	5460	5460	5460	5460	5080	5080	5080	5080	5080	5080	4660	4660	4660	4660	4660	4660	4370	4370	4370	4370	4370	4370	4170	4170	4170	4170	4170		
400x126	5650	5650	5650	5650	5650	5650	5250	5250	5250	5250	5250	5250	4820	4820	4820	4820	4820	4820	4520	4520	4520	4520	4520	4520	4310	4310	4310	4310	4310		
450x126	5820	5820	5820	5820	5820	5820	5410	5410	5410	5410	5410	5410	4960	4960	4960	4960	4960	4960	4650	4650	4650	4650	4650	4650	4440	4440	4440	4440	4440		
500x126	5970	5970	5970	5970	5970	5970	5550	5550	5550	5550	5550	5550	5090	5090	5090	5090	5090	5090	4780	4780	4780	4780	4780	4780	4550	4550	4550	4550	4550		
550x126	6120	6120	6120	6120	6120	6120	5690	5690	5690	5690	5690	5690	5210	5210	5210	5210	5210	5210	4890	4890	4890	4890	4890	4890	4660	4660	4660	4660	4660		
600x126	6250	6250	6250	6250	6250	6250	5810	5810	5810	5810	5810	5810	5330	5330	5330	5330	5330	5330	5000	5000	5000	5000	5000	5000	4770	4770	4770	4770	4770		
650x126	6380	6380	6380	6380	6380	6380	5930	5930	5930	5930	5930	5930	5440	5440	5440	5440	5440	5440	5100	5100	5100	5100	5100	5100	4860	4860	4860	4860	4860		
700x126	6500	6500	6500	6500	6500	6500	6040	6040	6040	6040	6040	6040	5540	5540	5540	5540	5540	5540	5200	5200	5200	5200	5200	5200	4950	4950	4950	4950	4950		
750x126	6610	6610	6610	6610	6610	6610	6150	6150	6150	6150	6150	6150	5640	5640	5640	5640	5640	5640	5290	5290	5290	5290	5290	5290	5040	5040	5040	5040	5040		
800x126	6720	6720	6720	6720	6720	6720	6250	6250	6250	6250	6250	6250	5730	5730	5730	5730	5730	5730	5370	5370	5370	5370	5370	5370	5120	5120	5120	5120	5120		
850x126	6820	6820	6820	6820	6820	6820	6340	6340	6340	6340	6340	6340	5820	5820	5820	5820	5820	5820	5450	5450	5450	5450	5450	5450	5200	5200	5200	5200	5200		
900x126	6920	6920	6920	6920	6920	6920	6430	6430	6430	6430	6430	6430	5900	5900	5900	5900	5900	5900	5530	5530	5530	5530	5530	5530	5280	5280	5280	5280	5280		
950x126	7010	7010	7010	7010	7010	7010	6520	6520	6520	6520	6520	6520	5980	5980	5980	5980	5980	5980	5610	5610	5610	5610	5610	5610	5350	5350	5350	5350	5350		
1000x126	7100	7100	7100	7100	7100	7100	6610	6610	6610	6610	6610	6610	6060	6060	6060	6060	6060	6060	5680	5680	5680	5680	5680	5680	5420	5420	5420	5420	5420		
210x210	5240	4650	4260	3980	3760	3580	5240	4650	4260	3980	3760	3580	5240	4650	4260	3980	3760	3580	5060	4580	4260	3980	3760	3580	4820	4370	4070	3850	3680	3530	
400x210	8290	8290	7750	7290	6930	6630	7710	7710	7710	7290	6930	6630	7070	7070	7070	6980	6680	6430	6630	6630	6630	6550	6260	6030	6320	6320	6320	6250	5970	5750	
450x210	8530	8530	8530	8130	7730	7400	7940	7940	7940	7940	7940	7940	7280	7280	7280	7280	7280	7280	7020	6830	6830	6830	6830	6830	6590	6510	6510	6510	6280		
500x210	8760	8760	8760	8760	8520	8170	8150	8150	8150	8150	8150	8150	7470	7470	7470	7470	7470	7470	7010	7010	7010	7010	7010	7010	6680	6680	6680	6680	6680		
550x210	8970	8970	8970	8970	8970	8920	8340	8340	8340	8340	8340	8340	7650	7650	7650	7650	7650	7650	7180	7180	7180	7180	7180	7180	6840	6840	6840	6840	6840		
600x210	9170	9170	9170	9170	9170	9170	8530	8530	8530	8530	8530	8530	7820	7820	7820	7820	7820	7820	7340	7340	7340	7340	7340	7340	6990	6990	6990	6990	6990		
650x210	9360	9360	9360	9360	9360	9360	8700	8700	8700	8700	8700	8700	7980	7980	7980	7980	7980	7980	7480	7480	7480	7480	7480	7480	7140	7140	7140	7140	7140		
700x210	9530	9530																													

Table 48.4: Red Stag Vertex₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Light Configuration						Vertex ₁₀						25°–45°						Ignoring wind face load																
Beam Size		Wind Zone																																		
		Low						Medium						High						Very High						Extra High										
		Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)										
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000						
88×88	1810	1560	1400	1300	1220	1150	1810	1560	1400	1300	1220	1150	1810	1560	1400	1300	1220	1150	1770	1550	1400	1300	1220	1150	1660	1460	1330	1230	1160	1100						
140×88	2850	2460	2220	2050	1930	1830	2850	2460	2220	2050	1930	1830	2850	2460	2220	2050	1930	1830	2820	2460	2220	2050	1930	1830	2650	2320	2110	1960	1850	1760						
190×88	3810	3310	2990	2770	2610	2470	3810	3310	2990	2770	2610	2470	3810	3310	2990	2770	2610	2470	3770	3310	2990	2770	2610	2470	3600	3150	2870	2670	2510	2390						
240×88	4760	4150	3760	3490	3280	3110	4760	4150	3760	3490	3280	3110	4760	4150	3760	3490	3280	3110	4500	4070	3760	3490	3280	3110	4290	3880	3620	3370	3170	3010						
290×88	5680	4970	4520	4200	3950	3750	5680	4970	4520	4200	3950	3750	5680	4970	4520	4200	3950	3750	5180	4690	4370	4140	3950	3750	4940	4480	4170	3950	3770	3630						
300×88	5860	5130	4670	4340	4080	3880	5860	5130	4670	4340	4080	3880	5860	5130	4670	4340	4080	3880	5320	4820	4490	4250	4060	3880	5070	4590	4280	4050	3870	3730						
315×88	6130	5380	4890	4550	4280	4070	6130	5380	4890	4550	4280	4070	6130	5380	4890	4550	4280	4070	5510	4990	4650	4410	4210	4050	5260	4760	4440	4200	4010	3860						
350×88	6760	5940	5410	5030	4740	4510	6760	5940	5410	5030	4740	4510	6760	5940	5410	5030	4740	4510	5970	5410	5040	4770	4560	4390	5690	5150	4800	4550	4350	4180						
360×88	6940	6100	5560	5170	4880	4640	6940	6100	5560	5170	4880	4640	6940	6100	5560	5170	4880	4640	6090	5520	5150	4870	4660	4480	5810	5260	4910	4640	4440	4270						
400×88	7640	6740	6150	5730	5400	5140	7640	6740	6150	5730	5400	5140	7640	6740	6150	5730	5400	5140	6600	5980	5570	5270	5040	4850	6290	5700	5310	5020	4800	4620						
126×126	2860	2480	2240	2070	1950	1850	2860	2480	2240	2070	1950	1850	2860	2480	2240	2070	1950	1850	2860	2480	2240	2070	1950	1850	2690	2360	2140	1990	1880	1780						
250×126	5430	4780	4350	4050	3820	3630	5430	4780	4350	4050	3820	3630	5430	4780	4350	4050	3820	3630	5070	4590	4280	4050	3820	3630	4830	4380	4080	3860	3690	3540						
300×126	6420	5670	5180	4830	4550	4330	6420	5670	5180	4830	4550	4330	6420	5670	5180	4830	4550	4330	5810	5270	4910	4650	4440	4270	5540	5020	4680	4430	4230	4080						
350×126	7370	6540	6000	5600	5280	5030	7370	6540	6000	5600	5280	5030	7370	6540	6000	5600	5280	5030	6530	5910	5510	5220	4990	4800	6220	5640	5250	4970	4750	4580						
400×126	8300	7400	6800	6350	6010	5720	8300	7400	6800	6350	6010	5720	8300	7400	6800	6350	6010	5720	6970	6490	6150	5880	5660	5310	6880	6290	5810	5500	5250	5060						
210×210	5240	4650	4260	3980	3760	3580	5240	4650	4260	3980	3760	3580	5240	4650	4260	3980	3760	3580	5060	4580	4260	3980	3760	3580	4820	4370	4070	3850	3680	3530						
400×210	9190	8350	7750	7290	6930	6630	9190	8350	7750	7290	6930	6630	9190	8350	7750	7290	6930	6630	8740	7920	7380	6980	6680	6430	8200	7430	6920	6550	6260	6030	7820	7080	6600	6250	5970	5750

a. All dimension units are in millimeters.

Table 48.5: Red Stag Vertex₂₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Light Configuration						Vertex ₂₀						0°–25°						Considering wind face load											
Beam Size	Span	Wind Zone																													
		Low						Medium						High						Very High						Extra High					
		Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88x88	2140	1830	1650	1530	1430	1360	2140	1830	1650	1530	1430	1360	2090	1830	1650	1530	1430	1360	1920	1680	1530	1420	1340	1270	1800	1580	1440	1340	1260	1190	
140x88	3350	2890	2610	2420	2270	2150	3180	2890	2610	2420	2270	2150	2830	2830	2610	2420	2270	2150	2600	2600	2440	2270	2130	2030	2440	2400	2210	2060	1940	1840	
190x88	3800	3800	3530	3270	3070	2910	3520	3520	3520	3270	3070	2910	3130	3130	3130	3130	3070	2910	2880	2880	2880	2880	2790	2850	2700	2700	2700	2650	2510	2390	
240x88	4030	4030	4030	4030	3860	3670	3750	3750	3750	3750	3750	3670	3390	3390	3390	3390	3390	3390	3390	3110	3110	3110	3110	3110	2920	2920	2920	2920	2920	2900	
290x88	4230	4230	4230	4230	4230	4230	3930	3930	3930	3930	3930	3930	3600	3600	3600	3600	3600	3600	3310	3310	3310	3310	3310	3110	3110	3110	3110	3110	3110	3110	
300x88	4260	4260	4260	4260	4260	4260	3960	3960	3960	3960	3960	3960	3630	3630	3630	3630	3630	3630	3350	3350	3350	3350	3350	3140	3140	3140	3140	3140	3140	3140	
315x88	4320	4320	4320	4320	4320	4010	4010	4010	4010	4010	4010	4010	3680	3680	3680	3680	3680	3680	3400	3400	3400	3400	3400	3190	3190	3190	3190	3190	3190	3190	
350x88	4430	4430	4430	4430	4430	4430	4120	4120	4120	4120	4120	4120	3780	3780	3780	3780	3780	3780	3530	3530	3530	3530	3530	3330	3330	3330	3330	3330	3330	3330	
360x88	4460	4460	4460	4460	4460	4460	4150	4150	4150	4150	4150	4150	3800	3800	3800	3800	3800	3800	3560	3560	3560	3560	3560	3340	3340	3340	3340	3340	3340	3340	
400x88	4580	4580	4580	4580	4580	4580	4260	4260	4260	4260	4260	4260	3910	3910	3910	3910	3910	3910	3660	3660	3660	3660	3660	3460	3460	3460	3460	3460	3460	3460	
405x88	4600	4600	4600	4600	4600	4600	4270	4270	4270	4270	4270	4270	3920	3920	3920	3920	3920	3920	3680	3680	3680	3680	3680	3470	3470	3470	3470	3470	3470	3470	
450x88	4720	4720	4720	4720	4720	4720	4390	4390	4390	4390	4390	4390	4020	4020	4020	4020	4020	4020	3770	3770	3770	3770	3770	3770	3600	3600	3600	3600	3600	3600	
495x88	4830	4830	4830	4830	4830	4830	4490	4490	4490	4490	4490	4490	4120	4120	4120	4120	4120	4120	3860	3860	3860	3860	3860	3680	3680	3680	3680	3680	3680	3680	
500x88	4840	4840	4840	4840	4840	4840	4500	4500	4500	4500	4500	4500	4130	4130	4130	4130	4130	4130	3870	3870	3870	3870	3870	3870	3690	3690	3690	3690	3690	3690	
540x88	4940	4940	4940	4940	4940	4940	4590	4590	4590	4590	4590	4590	4210	4210	4210	4210	4210	4210	3950	3950	3950	3950	3950	3770	3770	3770	3770	3770	3770	3770	
550x88	4960	4960	4960	4960	4960	4960	4610	4610	4610	4610	4610	4610	4230	4230	4230	4230	4230	4230	3970	3970	3970	3970	3970	3970	3780	3780	3780	3780	3780	3780	
595x88	5060	5060	5060	5060	5060	5060	4700	4700	4700	4700	4700	4700	4310	4310	4310	4310	4310	4310	4050	4050	4050	4050	4050	4050	3860	3860	3860	3860	3860	3860	
600x88	5070	5070	5070	5070	5070	5070	4710	4710	4710	4710	4710	4710	4320	4320	4320	4320	4320	4320	4060	4060	4060	4060	4060	4060	3870	3870	3870	3870	3870	3870	
126x126	3360	2910	2640	2440	2290	2180	3360	2910	2640	2440	2290	2180	3360	2910	2640	2440	2290	2180	3100	2720	2480	2300	2170	2060	2910	2550	2320	2160	2030	1930	
250x126	5330	5330	5120	4770	4490	4270	4960	4960	4770	4490	4270	4550	4550	4550	4550	4380	4220	4260	4260	4260	4260	4110	4110	3960	4070	4070	4070	3920	3770	3700	
300x126	5580	5580	5580	5580	5360	5190	5190	5190	5190	5190	5190	5100	4760	4760	4760	4760	4760	4760	4460	4460	4460	4460	4460	4460	4260	4260	4260	4260	4260	4260	
350x126	5800	5800	5800	5800	5800	5800	5390	5390	5390	5390	5390	5390	4950	4950	4950	4950	4950	4950	4640	4640	4640	4640	4640	4640	4420	4420	4420	4420	4420	4420	
400x126	6000	6000	6000	6000	6000	6000	5580	5580	5580	5580	5580	5580	5110	5110	5110	5110	5110	5110	4800	4800	4800	4800	4800	4800	4570	4570	4570	4570	4570	4570	
450x126	6180	6180	6180	6180	6180	6180	5740	5740	5740	5740	5740	5740	5270	5270	5270	5270	5270	5270	4940	4940	4940	4940	4940	4940	4710	4710	4710	4710	4710	4710	
500x126	6340	6340	6340	6340	6340	6340	5900	5900	5900	5900	5900	5900	5410	5410	5410	5410	5410	5410	5070	5070	5070	5070	5070	5070	4840	4840	4840	4840	4840	4840	
550x126	6500	6500	6500	6500	6500	6500	6040	6040	6040	6040	6040	6040	5540	5540	5540	5540	5540	5540	5200	5200	5200	5200	5200	5200	4950	4950	4950	4950	4950	4950	
600x126	6640	6640	6640	6640	6640	6640	6170	6170	6170	6170	6170	6170	5660	5660	5660	5660	5660	5660	5310	5310	5310	5310	5310	5310	5060	5060	5060	5060	5060	5060	
650x126	6770	6770	6770	6770	6770	6770	6300	6300	6300	6300	6300	6300	5770	5770	5770	5770	5770	5770	5420	5420	5420	5420	5420	5420	5160	5160	5160	5160	5160	5160	
700x126	6900	6900	6900	6900	6900	6900	6420	6420	6420	6420	6420	6420	5880	5880	5880	5880	5880	5880	5520	5520	5520	5520	5520	5520	5260	5260	5260	5260	5260	5260	
750x126	7020	7020	7020	7020	7020	7020	6530	6530	6530	6530	6530	6530	5990	5990	5990	5990	5990	5990	5610	5610	5610	5610	5610	5610	5350	5350	5350	5350	5350	5350	
800x126	7130	7130	7130	7130	7130	7130	6630	6630	6630	6630	6630	6630	6080	6080	6080	6080	6080	6080	5710	5710	5710	5710	5710	5710	5440	5440	5440	5440	5440	5440	
850x126	7240	7240	7240	7240	7240	7240	6730	6730	6730	6730	6730	6730	6180	6180	6180	6180	6180	6180	5790	5790	5790	5790	5790	5790	5520	5520	5520	5520	5520	5520	
900x126	7350	7350	7350	7350	7350	7350	6830	6830	6830	6830	6830	6830	6260	6260	6260	6260	6260	6260	5880	5880	5880	5880	5880	5880	5600	5600	5600	5600	5600	5600	
950x126	7450	7450	7450	7450	7450	7450	6930	6930	6930	6930	6930	6930	6350	6350	6350	6350	6350	6350	5980	5980	5980	5980	5980	5980	5680	5680	5680	5680	5680	5680	
1000x126	7540	7540	7540	7540	7540	7540	7010	7010	7010	7010	7010	7010	6430	6430	6430	6430	6430	6430	6030	6030	6030	6030	6030	6030	5750	5750	5750	5750	5750	5750	
210x210	6170	5480	5020	4680	4420	4210	6170	5480	5020	4680	4420	4210	5190	4830	4570	4370	4210	4210	5370	4860	4530	4290	4100	3950	5120	4640	4320	4090	3910	3760	
400x210	8800	8800	8800	8800	8800	8800	8180	8180	8180	8090	7730	7440	7500	7500	7500	7420	7090	6830	7040	7040	6960	6650	6400	6710	6710	6710	6630	6340	6100	6100	
450x210	9060	9060	9060	9060	9060	9060	8710	8710	8710	8710	8710	8710	8130	8130	8130	8130	8130	8130	7740	7740	7740	7740	7740	7740	6910	6910	6910	6910	6910	6910	
500x210	9310	9310	9310	9310	9310	9310	8850	8850	8850	8850	8850	8850	8260	8260	8260	8260	8260	8260	7840	7840	7840	7840	7840	7840	7100	7100	7100	7100	7100	7100	
550x210	9530	9530	9530	9530	9530	9530	8960	8960	8960	8960	8960	8960	8370	8370	8370	8370	8370	8370	7920	7920	7920	7920	7920	7920	7270	7270	7270	7270	7270	7270	
600x210	9740	9740	9740	9740	9740	9740	9060	9060	9060	9060	9060	9060	8470	8470	8470	8470	8470	8470	8030	8030	8030	8030	8030	8030	7380</						

Table 48.6: Red Stag Vertex₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Light Configuration						Vertex ₂₀						0°–25°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88	2140	1830	1650	1530	1430	1360	2140	1830	1650	1530	1430	1360	2090	1830	1650	1530	1430	1360	1920	1680	1530	1420	1340	1270	1800	1580	1440	1340	1260	1190
140×88	3350	2890	2610	2420	2270	2150	3350	2890	2610	2420	2270	2150	3330	2890	2610	2420	2270	2150	3060	2680	2440	2270	2130	2030	2870	2520	2290	2130	2000	1900
190×88	4490	3890	3530	3270	3070	2910	4490	3890	3530	3270	3070	2910	4270	3870	3530	3270	3070	2910	4010	3630	3310	3080	2900	2760	3820	3420	3110	2890	2720	2590
240×88	5600	4880	4430	4110	3860	3670	5600	4880	4430	4110	3860	3670	5090	4610	4300	4070	3860	3670	4770	4330	4030	3810	3650	3480	4550	4120	3840	3640	3440	3270
290×88	6690	5850	5320	4940	4650	4420	6690	5800	5320	4940	4650	4420	5870	5310	4950	4690	4480	4310	5500	4990	4650	4400	4200	4050	5250	4750	4430	4190	4010	3860
300×88	6900	6040	5490	5100	4800	4560	6900	5950	5490	5100	4800	4560	6020	5450	5080	4810	4600	4420	5640	5110	4770	4510	4310	4150	5380	4880	4540	4300	4110	3960
315×88	7220	6330	5760	5350	5040	4790	7220	6170	5750	5350	5040	4790	6240	5660	5270	4990	4770	4590	5880	5300	4940	4680	4470	4300	5580	5060	4710	4460	4260	4100
350×88	7920	6990	6370	5930	5580	5310	7920	6670	6220	5890	5580	5310	6760	6120	5700	5400	5160	4970	6340	5740	5350	5060	4840	4660	6040	5470	5100	4830	4610	4440
360×88	8090	7180	6550	6090	5740	5460	8090	6820	6350	6010	5740	5460	6900	6250	5830	5510	5270	5070	6470	5860	5460	5170	4940	4760	6170	5590	5210	4930	4710	4540
400×88	8760	7930	7240	6740	6360	6050	8760	7380	6880	6510	6220	5990	7470	6770	6300	5970	5700	5490	7010	6350	5910	5600	5350	5150	6680	6050	5640	5340	5100	4910
126×126	3360	2910	2640	2440	2290	2180	3360	2910	2640	2440	2290	2180	3360	2910	2640	2440	2290	2180	3100	2720	2480	2300	2170	2060	2910	2550	2320	2160	2030	1930
250×126	6390	5620	5120	4770	4490	4270	6390	5620	5120	4770	4490	4270	5740	5200	4850	4590	4380	4220	5390	4880	4550	4300	4110	3960	5130	4650	4330	4100	3920	3770
300×126	7550	6670	6100	5680	5360	5100	7550	6500	6060	5680	5360	5100	6580	5960	5560	5260	5030	4840	6180	5590	5210	4930	4720	4540	5890	5330	4970	4700	4500	4330
350×126	8670	7700	7060	6590	6220	5920	8670	7300	6800	6440	6160	5920	7390	6700	6240	5910	5640	5430	6930	6280	5850	5540	5300	5100	6610	5990	5580	5280	5050	4860
400×126	9580	8680	8000	7480	7070	6740	9580	8070	7520	7120	6810	6550	8170	7400	6900	6530	6240	6010	7660	6940	6470	6120	5850	5630	6620	6170	5840	5580	5370	
210×210	6170	5480	5020	4680	4420	4210	6170	5480	5020	4680	4420	4210	5720	5190	4830	4570	4370	4210	5370	4860	4530	4290	4100	3950	5120	4640	4320	4090	3910	3760
400×210	10820	9830	9120	8580	8150	7800	10120	9170	8550	8090	7730	7440	9280	8410	7840	7420	7090	6830	8710	7890	7350	6960	6650	6400	8300	7520	7010	6630	6340	6100

a. All dimension units are in millimeters.

Table 48.8: Red Stag Vertex₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Light Configuration						Vertex ₂₀						25°–45°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88	1970	1690	1520	1400	1320	1250	1970	1690	1520	1400	1320	1250	1970	1690	1520	1400	1320	1250	1920	1680	1520	1400	1320	1250	1800	1580	1440	1340	1260	1190
140×88	3090	2660	2410	2220	2090	1980	3090	2660	2410	2220	2090	1980	3090	2660	2410	2220	2090	1980	3060	2660	2410	2220	2090	1980	2870	2520	2290	2130	2000	1900
190×88	4130	3580	3250	3010	2820	2680	4130	3580	3250	3010	2820	2680	4130	3580	3250	3010	2820	2680	4010	3580	3250	3010	2820	2680	3820	3420	3110	2890	2720	2590
240×88	5160	4490	4070	3780	3550	3370	5160	4490	4070	3780	3550	3370	5090	4490	4070	3780	3550	3370	4770	4330	4030	3780	3550	3370	4550	4120	3840	3640	3440	3270
290×88	6160	5380	4890	4550	4280	4060	6160	5380	4890	4550	4280	4060	5870	5310	4890	4550	4280	4060	5500	4990	4650	4400	4200	4050	5250	4750	4430	4190	4010	3860
300×88	6350	5560	5060	4700	4420	4200	6350	5560	5060	4700	4420	4200	6020	5450	5060	4700	4420	4200	5640	5110	4770	4510	4310	4150	5380	4880	4540	4300	4110	3960
315×88	6650	5830	5300	4930	4640	4410	6650	5830	5300	4930	4640	4410	6240	5660	5270	4930	4640	4410	5880	5300	4940	4680	4470	4300	5580	5060	4710	4460	4260	4100
350×88	7330	6440	5870	5460	5140	4890	7330	6440	5870	5460	5140	4890	6760	6120	5700	5400	5140	4890	6340	5740	5350	5060	4840	4660	6040	5470	5100	4830	4610	4440
360×88	7520	6610	6030	5610	5280	5020	7520	6610	6030	5610	5280	5020	6900	6250	5830	5510	5270	5020	6470	5860	5460	5170	4940	4760	6170	5590	5210	4930	4710	4540
400×88	8280	7300	6670	6210	5850	5570	8280	7300	6670	6210	5850	5570	7470	6770	6300	5970	5700	5490	7010	6350	5910	5600	5350	5150	6680	6050	5640	5340	5100	4910
126×126	3100	2680	2430	2250	2110	2000	3100	2680	2430	2250	2110	2000	3100	2680	2430	2250	2110	2000	3100	2680	2430	2250	2110	2000	2910	2550	2320	2160	2030	1930
250×126	5890	5170	4720	4390	4130	3930	5890	5170	4720	4390	4130	3930	5740	5170	4720	4390	4130	3930	5390	4880	4550	4300	4110	3930	5130	4650	4330	4100	3920	3770
300×126	6950	6140	5610	5230	4930	4690	6950	6140	5610	5230	4930	4690	6580	5960	5560	5230	4930	4690	6180	5590	5210	4930	4720	4540	5890	5330	4970	4700	4500	4330
350×126	7990	7090	6500	6060	5730	5450	7990	7090	6500	6060	5730	5450	7390	6700	6240	5910	5640	5430	6930	6280	5850	5540	5300	5100	6610	5990	5580	5280	5050	4860
400×126	9000	8020	7370	6880	6510	6200	9000	8020	7370	6880	6510	6200	8170	7400	6900	6530	6240	6010	7660	6940	6470	6120	5850	5630	7310	6620	6170	5840	5580	5370
210×210	5680	5040	4620	4310	4070	3880	5680	5040	4620	4310	4070	3880	5680	5040	4620	4310	4070	3880	5370	4860	4530	4290	4070	3880	5120	4640	4320	4090	3910	3760
400×210	9960	9050	8400	7900	7510	7180	9960	9050	8400	7900	7510	7180	9280	8410	7840	7420	7090	6830	8710	7890	7350	6960	6650	6400	8300	7520	7010	6630	6340	6100

a. All dimension units are in millimeters.

Table 48.10: Red Stag Vertix₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Heavy Configuration						Vertex ₁₀						0°–25°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88	1510	1290	1160	1070	1000	950	1510	1290	1160	1070	1000	950	1510	1290	1160	1070	1000	950	1510	1290	1160	1070	1000	950	1510	1290	1160	1070	1000	950
140×88	2380	2040	1840	1690	1590	1500	2380	2040	1840	1690	1590	1500	2380	2040	1840	1690	1590	1500	2380	2040	1840	1690	1590	1500	2380	2040	1840	1690	1590	1500
190×88	3220	2760	2490	2300	2150	2040	3220	2760	2490	2300	2150	2040	3220	2760	2490	2300	2150	2040	3220	2760	2490	2300	2150	2040	3220	2760	2490	2300	2150	2040
240×88	4040	3470	3130	2900	2720	2570	4040	3470	3130	2900	2720	2570	4040	3470	3130	2900	2720	2570	4040	3470	3130	2900	2720	2570	4040	3470	3130	2900	2720	2570
290×88	4850	4180	3780	3490	3280	3110	4850	4180	3780	3490	3280	3110	4850	4180	3780	3490	3280	3110	4850	4180	3780	3490	3280	3110	4850	4180	3780	3490	3280	3110
300×88	5020	4330	3900	3610	3390	3210	5020	4330	3900	3610	3390	3210	5020	4330	3900	3610	3390	3210	5020	4330	3900	3610	3390	3210	5020	4330	3900	3610	3390	3210
315×88	5260	4540	4100	3790	3560	3370	5260	4540	4100	3790	3560	3370	5260	4540	4100	3790	3560	3370	5260	4540	4100	3790	3560	3370	5260	4540	4100	3790	3560	3370
350×88	5820	5030	4540	4200	3950	3740	5820	5030	4540	4200	3950	3740	5820	5030	4540	4200	3950	3740	5820	5030	4540	4200	3950	3740	5820	5030	4540	4200	3950	3740
360×88	5980	5170	4670	4320	4060	3850	5980	5170	4670	4320	4060	3850	5980	5170	4670	4320	4060	3850	5980	5170	4670	4320	4060	3850	5980	5170	4670	4320	4060	3850
400×88	6610	5730	5180	4800	4500	4270	6610	5730	5180	4800	4500	4270	6610	5730	5180	4800	4500	4270	6610	5730	5180	4800	4500	4270	6610	5730	5180	4800	4500	4270
126×126	2410	2060	1860	1720	1610	1520	2410	2060	1860	1720	1610	1520	2410	2060	1860	1720	1610	1520	2410	2060	1860	1720	1610	1520	2410	2060	1860	1720	1610	1520
250×126	4680	4040	3660	3380	3180	3010	4680	4040	3660	3380	3180	3010	4680	4040	3660	3380	3180	3010	4680	4040	3660	3380	3180	3010	4680	4040	3660	3380	3180	3010
300×126	5570	4830	4370	4050	3800	3610	5570	4830	4370	4050	3800	3610	5570	4830	4370	4050	3800	3610	5570	4830	4370	4050	3800	3610	5570	4830	4370	4050	3800	3610
350×126	6450	5610	5080	4710	4430	4200	6450	5610	5080	4710	4430	4200	6450	5610	5080	4710	4430	4200	6450	5610	5080	4710	4430	4200	6450	5610	5080	4710	4430	4200
400×126	7310	6370	5780	5370	5050	4790	7310	6370	5780	5370	5050	4790	7310	6370	5780	5370	5050	4790	7310	6370	5780	5370	5050	4790	7310	6370	5780	5370	5050	4790
210×210	4590	3990	3610	3350	3150	2990	4590	3990	3610	3350	3150	2990	4590	3990	3610	3350	3150	2990	4590	3990	3610	3350	3150	2990	4590	3990	3610	3350	3150	2990
400×210	8340	7360	6730	6260	5910	5620	8340	7360	6730	6260	5910	5620	8340	7360	6730	6260	5910	5620	8340	7360	6730	6260	5910	5620	8340	7360	6730	6260	5910	5620

a. All dimension units are in millimeters.

Table 48.11: Red Stag Vertix₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Heavy Configuration						Vertex ₁₀						25°–45°						Considering wind face load											
Beam Size	Span	Wind Zone																													
		Low						Medium						High						Very High						Extra High					
		Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000		
88x88	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870	
140x88	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380	
190x88	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880	
240x88	3690	3200	2880	2670	2500	2370	3690	3200	2880	2670	2500	2370	3690	3200	2880	2670	2500	2370	3690	3200	2880	2670	2500	2370	3690	3200	2880	2670	2500	2370	
290x88	3860	3850	3480	3210	3020	2860	3860	3850	3480	3210	3020	2860	3860	3850	3480	3210	3020	2860	3860	3850	3480	3210	3020	2860	3860	3850	3480	3210	3020	2860	
300x88	3900	3900	3590	3320	3120	2960	3900	3900	3590	3320	3120	2960	3900	3900	3590	3320	3120	2960	3900	3900	3590	3320	3120	2960	3900	3900	3590	3320	3120	2960	
315x88	3950	3950	3770	3490	3270	3110	3950	3950	3770	3490	3270	3110	3950	3950	3770	3490	3270	3110	3950	3950	3770	3490	3270	3110	3950	3950	3770	3490	3270	3110	
350x88	4050	4050	4050	3870	3630	3450	4050	4050	4050	3870	3630	3450	4050	4050	4050	3870	3630	3450	4050	4050	4050	3870	3630	3450	4050	4050	4050	3870	3630	3450	
360x88	4080	4080	4080	3980	3740	3540	4080	4080	4080	3980	3740	3540	4080	4080	4080	3980	3740	3540	4080	4080	4080	3980	3740	3540	4080	4080	4080	3980	3740	3540	
400x88	4190	4190	4190	4190	4150	3930	4190	4190	4190	4190	4150	3930	4190	4190	4190	4190	4150	3930	4190	4190	4190	4190	4150	3930	4190	4190	4190	4190	4150	3930	
405x88	4200	4200	4200	4200	4200	3980	4200	4200	4200	4200	4200	3980	4200	4200	4200	4200	3980	4200	4200	4200	4200	4200	4200	3980	4200	4200	4200	4200	4200	3980	
450x88	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	4310	
495x88	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	4420	
500x88	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	4430	
540x88	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	4510	
550x88	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	4540	
595x88	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	4630	
600x88	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	4640	
126x126	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400	
250x126	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770	
300x126	5100	4450	4020	3730	3500	3320	5100	4450	4020	3730	3500	3320	5100	4450	4020	3730	3500	3320	5100	4450	4020	3730	3500	3320	5100	4450	4020	3730	3500	3320	
350x126	5300	5160	4680	4330	4070	3870	5300	5160	4680	4330	4070	3870	5300	5160	4680	4330	4070	3870	5300	5160	4680	4330	4070	3870	5300	5160	4680	4330	4070	3870	
400x126	5480	5480	5320	4940	4650	4410	5480	5480	5320	4940	4650	4410	5480	5480	5320	4940	4650	4410	5480	5480	5320	4940	4650	4410	5480	5480	5320	4940	4650	4410	
450x126	5650	5650	5650	5540	5210	4950	5650	5650	5650	5540	5210	4950	5650	5650	5650	5540	5210	4950	5650	5650	5650	5540	5210	4950	5650	5650	5650	5540	5210	4950	
500x126	5800	5800	5800	5800	5780	5490	5800	5800	5800	5800	5780	5490	5800	5800	5800	5800	5780	5490	5800	5800	5800	5800	5800	5780	5490	5800	5800	5800	5800	5780	
550x126	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	5940	
600x126	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	6070	
650x126	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	6190	
700x126	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	6310	
750x126	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	6420	
800x126	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	6520	
850x126	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	6620	
900x126	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	6720	
950x126	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	6810	
1000x126	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	6900	
210x210	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750	
400x210	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170	
450x210	8290	7570	6920	6460	6090	5800	8290	7570	6920	6460	6090	5800	8290	7570	6920	6460	6090	5800	8290	7570	6920	6460	6090	5800	8290	7570	6920	6460	6090	5800	
500x210	8510	8350	7650	7140	6740	6420	8510	8350	7650	7140	6740	6420	8510	8350	7650	7140	6740	6420	8510	8350	7650	7140	6740	6420	8510	8350	7650	7140	6740	6420	
550x210	8710	8710	8370	7820	7390	7040	8710	8710	8370	7820	7390	7040	8710	8710	8370	7820	7390	7040	8710	8710	8370	7820	7390	7040	8710	8710	8370	7820	7390	7040	
600x210	8900	8900	8900	8490	8030	7660	8900	8900	8900	8490	8030	7660	8900	8900	8900	8490	8030	7660	8900	8900	8900	8490	8030	7660	8900	8900	8900	8490	8030	76	

Table 48.12: Red Stag Vertix₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Heavy Configuration						Vertex ₁₀						25°–45°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870	1390	1180	1060	980	920	870
140×88	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380	2190	1880	1690	1560	1460	1380
190×88	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880	2960	2540	2290	2110	1980	1880
240×88	3720	3200	2880	2670	2500	2370	3720	3200	2880	2670	2500	2370	3720	3200	2880	2670	2500	2370	3720	3200	2880	2670	2500	2370	3720	3200	2880	2670	2500	2370
290×88	4470	3850	3480	3210	3020	2860	4470	3850	3480	3210	3020	2860	4470	3850	3480	3210	3020	2860	4470	3850	3480	3210	3020	2860	4470	3850	3480	3210	3020	2860
300×88	4620	3980	3590	3320	3120	2960	4620	3980	3590	3320	3120	2960	4620	3980	3590	3320	3120	2960	4620	3980	3590	3320	3120	2960	4620	3980	3590	3320	3120	2960
315×88	4840	4180	3770	3490	3270	3110	4840	4180	3770	3490	3270	3110	4840	4180	3770	3490	3270	3110	4840	4180	3770	3490	3270	3110	4840	4180	3770	3490	3270	3110
350×88	5360	4630	4180	3870	3630	3450	5360	4630	4180	3870	3630	3450	5360	4630	4180	3870	3630	3450	5360	4630	4180	3870	3630	3450	5360	4630	4180	3870	3630	3450
360×88	5500	4760	4300	3980	3740	3540	5500	4760	4300	3980	3740	3540	5500	4760	4300	3980	3740	3540	5500	4760	4300	3980	3740	3540	5500	4760	4300	3980	3740	3540
400×88	6090	5270	4770	4410	4150	3930	6090	5270	4770	4410	4150	3930	6090	5270	4770	4410	4150	3930	6090	5270	4770	4410	4150	3930	6090	5270	4770	4410	4150	3930
126×126	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400	2210	1900	1710	1580	1480	1400
250×126	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770	4310	3720	3360	3110	2920	2770
300×126	5130	4450	4020	3730	3500	3320	5130	4450	4020	3730	3500	3320	5130	4450	4020	3730	3500	3320	5130	4450	4020	3730	3500	3320	5130	4450	4020	3730	3500	3320
350×126	5940	5160	4680	4330	4070	3870	5940	5160	4680	4330	4070	3870	5940	5160	4680	4330	4070	3870	5940	5160	4680	4330	4070	3870	5940	5160	4680	4330	4070	3870
400×126	6730	5870	5320	4940	4650	4410	6730	5870	5320	4940	4650	4410	6730	5870	5320	4940	4650	4410	6730	5870	5320	4940	4650	4410	6730	5870	5320	4940	4650	4410
210×210	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750	4220	3670	3330	3080	2900	2750
400×210	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170	7680	6780	6190	5770	5440	5170

a. All dimension units are in millimeters.

Table 48.14: Red Stag Vertix₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Heavy Configuration						Vertex ₂₀						0°–25°						Ignoring wind face load										
														Wind Zone																
Beam Size	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88	1630	1390	1250	1160	1080	1020	1630	1390	1250	1160	1080	1020	1630	1390	1250	1160	1080	1020	1630	1390	1250	1160	1080	1020	1630	1390	1250	1160	1080	1020
140×88	2580	2210	1990	1840	1720	1630	2580	2210	1990	1840	1720	1630	2580	2210	1990	1840	1720	1630	2580	2210	1990	1840	1720	1630	2580	2210	1990	1840	1720	1630
190×88	3490	2990	2690	2490	2330	2210	3490	2990	2690	2490	2330	2210	3490	2990	2690	2490	2330	2210	3490	2990	2690	2490	2330	2210	3490	2990	2690	2490	2330	2210
240×88	4380	3770	3400	3140	2940	2790	4380	3770	3400	3140	2940	2790	4380	3770	3400	3140	2940	2790	4380	3770	3400	3140	2940	2790	4380	3770	3400	3140	2940	2790
290×88	5260	4530	4090	3780	3550	3370	5260	4530	4090	3780	3550	3370	5260	4530	4090	3780	3550	3370	5260	4530	4090	3780	3550	3370	5260	4530	4090	3780	3550	3370
300×88	5430	4690	4230	3910	3670	3480	5430	4690	4230	3910	3670	3480	5430	4690	4230	3910	3670	3480	5430	4690	4230	3910	3670	3480	5430	4690	4230	3910	3670	3480
315×88	5700	4920	4440	4110	3850	3660	5700	4920	4440	4110	3850	3660	5700	4920	4440	4110	3850	3660	5700	4920	4440	4110	3850	3660	5700	4920	4440	4110	3850	3660
350×88	6300	5450	4920	4560	4280	4060	6300	5450	4920	4560	4280	4060	6300	5450	4920	4560	4280	4060	6300	5450	4920	4560	4280	4060	6300	5450	4920	4560	4280	4060
360×88	6480	5600	5060	4680	4400	4170	6480	5600	5060	4680	4400	4170	6480	5600	5060	4680	4400	4170	6480	5600	5060	4680	4400	4170	6480	5600	5060	4680	4400	4170
400×88	7170	6200	5610	5200	4880	4630	7170	6200	5610	5200	4880	4630	7170	6200	5610	5200	4880	4630	7170	6200	5610	5200	4880	4630	7170	6200	5610	5200	4880	4630
126×126	2610	2240	2010	1860	1740	1650	2610	2240	2010	1860	1740	1650	2610	2240	2010	1860	1740	1650	2610	2240	2010	1860	1740	1650	2610	2240	2010	1860	1740	1650
250×126	5070	4380	3960	3670	3440	3260	5070	4380	3960	3670	3440	3260	5070	4380	3960	3670	3440	3260	5070	4380	3960	3670	3440	3260	5070	4380	3960	3670	3440	3260
300×126	6040	5230	4740	4390	4120	3910	6040	5230	4740	4390	4120	3910	6040	5230	4740	4390	4120	3910	6040	5230	4740	4390	4120	3910	6040	5230	4740	4390	4120	3910
350×126	6990	6070	5500	5100	4800	4550	6990	6070	5500	5100	4800	4550	6990	6070	5500	5100	4800	4550	6990	6070	5500	5100	4800	4550	6990	6070	5500	5100	4800	4550
400×126	7920	6910	6270	5810	5470	5190	7920	6910	6270	5810	5470	5190	7920	6910	6270	5810	5470	5190	7920	6910	6270	5810	5470	5190	7920	6910	6270	5810	5470	5190
210×210	4970	4320	3910	3630	3410	3240	4970	4320	3910	3630	3410	3240	4970	4320	3910	3630	3410	3240	4970	4320	3910	3630	3410	3240	4970	4320	3910	3630	3410	3240
400×210	9040	7980	7290	6790	6400	6090	9040	7980	7290	6790	6400	6090	9040	7980	7290	6790	6400	6090	8710	7890	7290	6790	6400	6090	8300	7520	7010	6630	6340	6090

^a. All dimension units are in millimeters.

Table 48.16: Red Stag Vertix₁₀ Roof Lintel Beam Span Table ^a

Vertex Roof Lintels		Heavy Configuration						Vertex ₂₀						25°–45°						Ignoring wind face load										
Beam Size	Wind Zone																													
	Low						Medium						High						Very High						Extra High					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88	1500	1280	1150	1060	1000	940	1500	1280	1150	1060	1000	940	1500	1280	1150	1060	1000	940	1500	1280	1150	1060	1000	940	1500	1280	1150	1060	1000	940
140×88	2380	2040	1830	1690	1580	1500	2380	2040	1830	1690	1580	1500	2380	2040	1830	1690	1580	1500	2380	2040	1830	1690	1580	1500	2380	2040	1830	1690	1580	1500
190×88	3210	2750	2480	2290	2150	2040	3210	2750	2480	2290	2150	2040	3210	2750	2480	2290	2150	2040	3210	2750	2480	2290	2150	2040	3210	2750	2480	2290	2150	2040
240×88	4030	3470	3130	2890	2710	2570	4030	3470	3130	2890	2710	2570	4030	3470	3130	2890	2710	2570	4030	3470	3130	2890	2710	2570	4030	3470	3130	2890	2710	2570
290×88	4840	4170	3770	3480	3270	3100	4840	4170	3770	3480	3270	3100	4840	4170	3770	3480	3270	3100	4840	4170	3770	3480	3270	3100	4840	4170	3770	3480	3270	3100
300×88	5000	4310	3890	3600	3380	3210	5000	4310	3890	3600	3380	3210	5000	4310	3890	3600	3380	3210	5000	4310	3890	3600	3380	3210	5000	4310	3890	3600	3380	3210
315×88	5240	4520	4090	3780	3550	3360	5240	4520	4090	3780	3550	3360	5240	4520	4090	3780	3550	3360	5240	4520	4090	3780	3550	3360	5240	4520	4090	3780	3550	3360
350×88	5800	5010	4530	4190	3940	3730	5800	5010	4530	4190	3940	3730	5800	5010	4530	4190	3940	3730	5800	5010	4530	4190	3940	3730	5800	5010	4530	4190	3940	3730
360×88	5960	5150	4660	4310	4050	3840	5960	5150	4660	4310	4050	3840	5960	5150	4660	4310	4050	3840	5960	5150	4660	4310	4050	3840	5960	5150	4660	4310	4050	3840
400×88	6600	5710	5170	4780	4490	4260	6600	5710	5170	4780	4490	4260	6600	5710	5170	4780	4490	4260	6600	5710	5170	4780	4490	4260	6600	5710	5170	4780	4490	4260
126×126	2400	2060	1850	1710	1600	1520	2400	2060	1850	1710	1600	1520	2400	2060	1850	1710	1600	1520	2400	2060	1850	1710	1600	1520	2400	2060	1850	1710	1600	1520
250×126	4670	4030	3650	3370	3170	3010	4670	4030	3650	3370	3170	3010	4670	4030	3650	3370	3170	3010	4670	4030	3650	3370	3170	3010	4670	4030	3650	3370	3170	3010
300×126	5560	4820	4360	4040	3790	3600	5560	4820	4360	4040	3790	3600	5560	4820	4360	4040	3790	3600	5560	4820	4360	4040	3790	3600	5560	4820	4360	4040	3790	3600
350×126	6430	5590	5070	4700	4420	4190	6430	5590	5070	4700	4420	4190	6430	5590	5070	4700	4420	4190	6430	5590	5070	4700	4420	4190	6430	5590	5070	4700	4420	4190
400×126	7290	6360	5770	5350	5030	4780	7290	6360	5770	5350	5030	4780	7290	6360	5770	5350	5030	4780	7290	6360	5770	5350	5030	4780	7290	6360	5770	5350	5030	4780
210×210	4570	3980	3600	3340	3140	2980	4570	3980	3600	3340	3140	2980	4570	3980	3600	3340	3140	2980	4570	3980	3600	3340	3140	2980	4570	3980	3600	3340	3140	2980
400×210	8320	7350	6710	6250	5890	5600	8320	7350	6710	6250	5890	5600	8320	7350	6710	6250	5890	5600	8320	7350	6710	6250	5890	5600	8320	7350	6710	6250	5890	5600

a. All dimension units are in millimeters.



A4 Red Stag Vertix and GLT_h Floor Lintel Beam

Red Stag Vertix and GLT_h floor lintel beams are assumed to be subject to uniformly distributed loads. Where the roof system has rafters and the floor system has joists, a minimum of three rafters/joists over the floor lintel/beams span (at uniform spacing) are required. Note: floor lintels can be used as floor beams, but minimum wall and roof loading should be considered. The location of the Red Stag GLT roof lintel beam and its free-body diagram are presented in *Figure 28*. The Red Stag Vertix and GLT_h floor lintel beam span tables spans are presented in *Table 49.1* to *Table 50.16*.

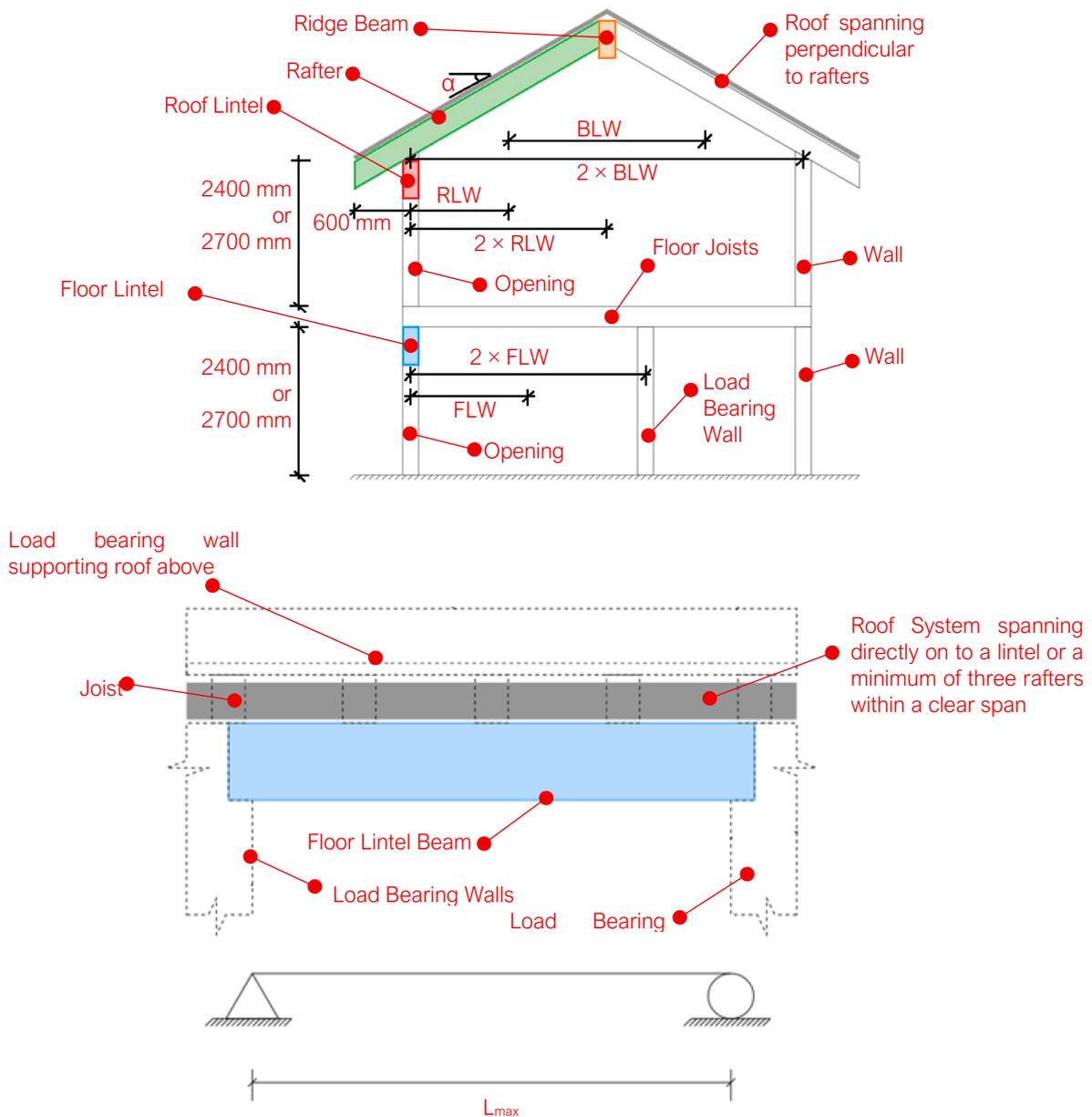


Figure 28: Red Stag Vertix and GLT_h floor lintel beam free diagram.

Table 49.1: Red Stag GLT_n8 Floor Lintel Span Table ^a

GLT _n Floor Lintels		Light Configuration						GL8						0°–25°						Considering wind face load																
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	1570	1520	1470	1420	1390	1350	1400	1360	1330	1300	1270	1250	1280	1260	1230	1210	1190	1170	1200	1180	1160	1140	1130	1110	1130	1120	1100	1090	1070	1060	1050	1040	1030	1020	1010	
168×88	2090	2020	1950	1900	1850	1800	1860	1820	1770	1730	1700	1660	1710	1680	1640	1610	1590	1560	1600	1570	1550	1520	1500	1480	1510	1490	1470	1450	1430	1410	1400	1390	1380	1370	1350	
210×88	2460	2460	2440	2370	2300	2220	2330	2270	2210	2160	2120	2080	2140	2090	2050	2020	1980	1950	2000	1960	1930	1900	1880	1850	1890	1860	1830	1810	1790	1770	1760	1740	1720	1710	1690	
252×88	2610	2610	2610	2610	2610	2580	2610	2610	2610	2600	2540	2490	2560	2510	2460	2420	2380	2340	2390	2350	2320	2280	2250	2220	2260	2230	2200	2170	2150	2120	2130	2110	2090	2070	2050	2030
294×88	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2750	2730	2750	2740	2700	2660	2620	2590	2640	2600	2570	2530	2500	2470	2480	2460	2430	2410	2390	2370	
336×88	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2870	2860	2820	2810	2780	2760	2730	2700	2680
378×88	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2980
420×88	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100
126×126	1770	1700	1650	1600	1560	1520	1570	1530	1500	1460	1430	1410	1440	1420	1390	1360	1340	1320	1350	1330	1310	1290	1270	1250	1270	1260	1240	1220	1210	1190	1210	1200	1190	1170	1160	1150
168×126	2350	2270	2200	2130	2070	2020	2100	2040	1990	1950	1910	1870	1920	1890	1850	1820	1790	1760	1800	1770	1740	1710	1690	1670	1700	1680	1650	1630	1610	1590	1620	1600	1580	1560	1550	1530
210×126	2930	2830	2740	2660	2590	2530	2610	2550	2490	2430	2380	2340	2400	2350	2310	2270	2230	2200	2250	2210	2170	2140	2110	2080	2120	2090	2070	2040	2010	1990	2020	2000	1980	1950	1930	1910
252×126	3500	3380	3280	3180	3100	3020	3130	3050	2980	2920	2860	2800	2880	2820	2770	2720	2670	2630	2690	2650	2610	2570	2530	2500	2540	2510	2480	2440	2410	2390	2430	2400	2370	2340	2320	2290
294×126	3850	3850	3820	3710	3610	3520	3650	3550	3470	3400	3330	3260	3350	3290	3230	3170	3120	3070	3140	3090	3040	2990	2950	2910	2970	2930	2890	2850	2810	2780	2830	2790	2760	2730	2700	2670
336×126	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980	3980
378×126	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100	4100
420×126	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210	4210

a. All dimension units are in millimeters.

Table 49.2: Red Stag GLT_n8 Floor Lintel Span Table ^a

GLT _n Floor Lintels		Light Configuration						GL8						0°–25°						Ignoring wind face load																
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126×88	1570	1520	1470	1420	1390	1350	1400	1360	1330	1300	1270	1250	1280	1260	1230	1210	1190	1170	1200	1180	1160	1140	1130	1110	1130	1120	1100	1090	1070	1060	1050	1040	1030	1020	1010	
168×88	2090	2020	1950	1900	1850	1800	1860	1820	1770	1730	1700	1660	1710	1680	1640	1610	1590	1560	1600	1570	1550	1520	1500	1480	1510	1490	1470	1450	1430	1410	1420	1410	1390	1380	1370	1350
210×88	2610	2520	2440	2370	2300	2220	2330	2270	2210	2160	2120	2080	2140	2090	2050	2020	1980	1950	2000	1960	1930	1900	1880	1850	1890	1860	1830	1810	1790	1770	1760	1740	1720	1710	1690	
252×88	3130	3020	2920	2840	2760	2690	2790	2720	2650	2590	2540	2490	2560	2510	2460	2420	2380	2340	2390	2350	2320	2280	2250	2220	2260	2230	2200	2170	2150	2120	2130	2110	2090	2070	2050	2030
294×88	3640	3510	3400	3310	3220	3140	3250	3170	3090	3020	2960	2910	2990	2930	2870	2820	2770	2730	2790	2740	2700	2660	2620	2590	2640	2600	2570	2530	2500	2470	2480	2460	2430	2410	2390	2370
336×88	4150	4010	3880	3770	3670	3580	3710	3610	3530	3450	3380	3320	3410	3340	3280	3220	3170	3120	3190	3130	3090	3040	3000	2960	3010	2970	2930	2890	2860	2820	2810	2780	2760	2730	2700	2680
378×88	4660	4500	4360	4240	4130	4020	4170	4060	3970	3880	3800	3730	3830	3750	3680	3620	3560	3500	3580	3520	3470	3420	3370	3320	3390	3340	3300	3250	3210	3180	3130	3100	3070	3040	3010	2980
126×126	1770	1700	1650	1600	1560	1520	1570	1530	1500	1460	1430	1410	1440	1420	1390	1360	1340	1320	1350	1330	1310	1290	1270	1250	1270	1260	1240	1220	1210	1190	1210	1200	1190	1170	1160	1150
168×126	2350	2270	2200	2130	2070	2020	2100	2040	1990	1950	1910	1870	1920	1890	1850	1820	1790	1760	1800	1770	1740	1710	1690	1670	1700	1680	1650	1630	1610	1590	1620	1600	1580	1560	1550	1530
210×126	2930	2830	2740	2660	2590	2530	2610	2550	2490	2430	2380	2340	2400	2350	2310	2270	2230	2200	2250	2210	2170	2140	2110	2080	2120	2090	2070	2040	2010	1990	2020	2000	1980	1950	1930	1910
252×126	3500	3380	3280	3180	3100	3020	3130	3050	2980	2920	2860	2800	2880	2820	2770	2720	2670	2630	2690	2650	2610	2570	2530	2500	2540	2510	2480	2440	2410	2390	2430	2400	2370	2340	2320	2290
294×126	4080	3940	3820	3710	3610	3520	3650	3550	3470	3400	3330	3260	3350	3290	3230	3170	3120	3070	3140	3090	3040	2990	2950	2910	2970	2930	2890	2850	2810	2780	2830	2790	2760	2730	2700	2670
336×126	4640	4490	4350	4230	4120	4020	4160	4050	3960	3880	3800	3720	3830	3750	3680	3620	3560	3500	3580	3520	3470	3420	3370	3320	3390	3340	3300	3250	3210	3180	3130	3100	3070	3040	3010	2980
378×126	5210	5030	4880	4740	4620	4510	4670	4550	4450	4350	4260	4180	4300	4210	4140	4060	4000	3930	4020	3960	3900	3840	3790	3730	3810	3750	3700	3660	3610	3570	3630	3590	3550	3510	3470	3430

a. All dimension units are in millimeters.

Table 49.3: Red Stag GLT_n8 Floor Lintel Span Table ^a

GLT _n Floor Lintels		Light Configuration						GL8						25°–45°						Considering wind face load																
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4														

Table 49.4: Red Stag GLT_n8 Floor Lintel Span Table ^a

GLT _n Floor Lintels		Light Configuration						GL8						25°-45°						Ignoring wind face load																
Beam Size	Wind Zone Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
126x88	1540	1480	1420	1370	1330	1290	1380	1340	1300	1260	1230	1270	1240	1210	1180	1160	1140	1190	1160	1140	1120	1100	1080	1120	1100	1090	1070	1050	1040	1060	1050	1030	1020	1010	1000	
168x88	2050	1970	1890	1830	1770	1720	1840	1780	1730	1680	1640	1690	1650	1610	1580	1550	1520	1580	1550	1520	1490	1470	1440	1500	1470	1450	1420	1400	1380	1410	1390	1380	1360	1350	1330	
210x88	2560	2450	2360	2280	2210	2150	2290	2220	2160	2100	2050	2110	2060	2010	1970	1930	1890	1980	1940	1900	1870	1830	1800	1870	1840	1810	1780	1750	1730	1760	1740	1720	1700	1680	1660	
252x88	3060	2940	2830	2730	2650	2580	2750	2660	2590	2520	2460	2410	2360	2320	2270	2230	2190	2280	2240	2200	2170	2130	2100	2170	2140	2110	2080	2050	2030	2060	2040	2020	2000	1980	1960	
294x88	3570	3420	3290	3180	3090	3000	3200	3100	3020	2940	2870	2820	2770	2730	2690	2650	2610	2700	2660	2620	2590	2550	2520	2600	2570	2540	2510	2480	2450	2430	2460	2440	2420	2400	2380	2360
336x88	4070	3900	3760	3630	3520	3430	3650	3540	3470	3390	3320	3270	3230	3190	3150	3110	3200	3160	3120	3090	3050	3020	3100	3070	3040	3010	2980	2950	2930	2960	2940	2920	2900	2880	2860	2840
378x88	4560	4380	4220	4080	3960	3850	4100	3980	3900	3820	3750	3700	3660	3620	3580	3540	3630	3590	3550	3520	3480	3450	3530	3500	3470	3440	3410	3380	3360	3390	3370	3350	3330	3310	3290	3270
126x126	1730	1680	1600	1540	1500	1450	1550	1500	1460	1420	1390	1360	1330	1310	1280	1260	1340	1310	1280	1260	1240	1220	1270	1240	1220	1200	1190	1170	1210	1190	1170	1150	1140	1120	1100	
168x126	2300	2210	2120	2050	1990	1940	2070	2000	1940	1890	1850	1810	1780	1760	1740	1710	1780	1750	1710	1680	1650	1620	1690	1660	1630	1600	1580	1560	1600	1580	1560	1540	1520	1500	1480	
210x126	2870	2750	2650	2560	2480	2420	2580	2500	2430	2360	2310	2260	2220	2170	2130	2090	2180	2140	2100	2060	2030	2000	2110	2070	2040	2000	1970	1950	1990	1970	1950	1920	1900	1870	1850	
252x126	3430	3290	3170	3070	2970	2890	3080	2990	2910	2830	2760	2710	2660	2620	2580	2540	2630	2590	2550	2520	2480	2450	2560	2520	2490	2450	2420	2400	2440	2420	2400	2370	2350	2330	2310	2290
294x126	3990	3830	3690	3570	3460	3370	3590	3480	3400	3320	3250	3200	3150	3110	3070	3030	3120	3080	3040	3010	2970	2940	3060	3020	2990	2950	2920	2900	2940	2920	2900	2870	2850	2830	2810	2790
336x126	4540	4360	4200	4070	3950	3840	4090	3970	3890	3810	3730	3660	3610	3570	3530	3490	3580	3540	3500	3470	3430	3400	3520	3480	3450	3410	3380	3360	3400	3380	3360	3330	3310	3290	3270	3250
378x126	5090	4890	4710	4560	4430	4310	4590	4450	4370	4290	4210	4130	4060	4010	3970	3930	4020	3980	3940	3910	3870	3840	3960	3920	3890	3850	3820	3800	3840	3820	3800	3770	3750	3730	3710	3690

a. All dimension units are in millimeters.

Table 49.5: Red Stag GLT_n10 Floor Lintel Span Table ^a

GLT _n Floor Lintels		Light Configuration						GL10						0°-25°						Considering wind face load																		
Beam Size	Wind Zone Low to Extra High																																					
	Floor loaded width (mm)																																					
	1000						2000						3000						4000						5000						6000							
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)							
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000			
126x88	1690	1630	1580	1530	1490	1450	1510	1470	1430	1400	1370	1340	1380	1350	1330	1310	1280	1290	1270	1250	1230	1210	1200	1220	1200	1190	1170	1160	1140	1150	1130	1120	1110	1100	1090			
168x88	2260	2170	2110	2040	1990	1940	2010	1960	1910	1870	1830	1790	1840	1810	1770	1740	1710	1720	1690	1670	1640	1620	1600	1630	1600	1580	1560	1540	1520	1530	1510	1500	1480	1470	1460			
210x88	2850	2650	2630	2550	2480	2380	2510	2440	2390	2330	2280	2240	2300	2260	2210	2170	2140	2150	2120	2080	2050	2020	1990	2030	2000	1980	1950	1930	1900	1910	1890	1870	1850	1840	1820			
252x88	3410	3210	3190	3110	3040	2940	3070	3000	2950	2890	2840	2790	2850	2810	2760	2720	2690	2700	2670	2630	2600	2570	2540	2580	2550	2530	2500	2480	2440	2420	2400	2370	2350	2330	2310	2290		
294x88	3960	3760	3740	3660	3590	3490	3620	3550	3500	3440	3390	3340	3400	3360	3310	3270	3240	3250	3220	3180	3150	3120	3090	3130	3100	3080	3050	3030	3000	3010	2990	2970	2940	2910	2880	2860		
336x88	4510	4310	4290	4210	4140	4040	4170	4100	4050	3990	3940	3890	3950	3910	3860	3820	3790	3800	3770	3730	3700	3670	3710	3680	3650	3630	3600	3610	3590	3570	3540	3510	3480	3450	3420	3390	3370	
378x88	5060	4860	4840	4760	4690	4590	4720	4650	4600	4540	4490	4440	4500	4460	4410	4370	4340	4350	4320	4280	4250	4220	4190	4230	4200	4180	4150	4130	4100	4110	4090	4070	4040	4010	3980	3950	3920	3890
420x88	5610	5410	5390	5310	5240	5140	5270	5200	5150	5090	5040	4990	5050	5010	4960	4920	4890	4900	4870	4830	4800	4770	4740	4780	4750	4730	4700	4680	4640	4620	4600	4570	4540	4510	4480	4450	4420	4390
126x126	1900	1840	1780	1730	1680	1640	1700	1650	1610	1580	1540	1510	1560	1530	1500	1470	1440	1450	1420	1380	1350	1320	1300	1330	1300	1280	1260	1240	1250	1230	1220	1200	1180	1170	1150	1140		
168x126	2530	2440	2370	2300	2240	2180	2260	2200	2150	2100	2060	2020	2070	2030	1990	1960	1920	1930	1900	1860	1830	1800	1810	1830	1800	1780	1760	1740	1720	1710	1690	1670	1650	1640	1620	1600		
210x126	3160	3050	2950	2870	2790	2720	2820	2750	2680	2620	2570	2520	2580	2540	2490	2440	2400	2410	2380	2340	2310	2270	2240	2250	2220	2200	2170	2140	2120	2100	2070	2040	2010	1980	1950	1920	1890	
252x126	3780	3650	3530	3430	3340	3260	3370	3290	3210	3140	3080	3020	3100	3040	2980	2930	2880	2890	2860	2820	2790	2750	2720	2730	2700	2680	2650	2630	2600	2570	2540	2510	2480	2450	2420	2390	2360	
294x126	4400	4270	4150	4050	3960	3880	3990	3910	3830	3760	3700	3640	3720	3660	3600	3540	3480	3490	3460	3420	3390	3350	3320	3330	3300	3280	3250	3230	3200	3170	3140	3110	3080	3050	3020	2990	2960	
336x126	5020	4890	4770	4670	4580	4500	4610	4530	4450	4380	4320	4260	4340	4280	4220	4160	4100	4110	4080	4040	4010	3970	3940	3950	3920	3900	3870	3840	3810	3780	3750	3720	3690	3660	3630	3600	3570	
378x126	5640	5440	5320	5220	5130	5050	5160	5080	5000	4930	4870	4810	4890	4830	4770	4710	4650	4660	4630	4590	4560	4520	4490	4500	4470	4450	4420	4390	4360	4330	4300	4270	4240	4210	4180	4150	4120	4090
420x126	6260	6060	5940	5840	5750	5670	5780	5700	5620	5550	5490	5430	5510	5450	5390	5330	5270	5280	5250	5210	5180	5140	5110	5120	5090	5070	5040	5010	4980	4950	4920	4890	4860	4830	4800	4770	4740	4710

a. All dimension units are in millimeters.

Table 49.6: Red Stag GLT_n10 Floor Lintel Span Table ^a

GLT _n Floor Lintels		Light Configuration						GL10						0°-25°						Ignoring wind face load																
Beam Size	Wind Zone Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
1000	2000	3000	4000	5000	6000	1000																														

Table 49.7: Red Stag GLT_h10 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Light Configuration						GL10						25°-45°						Considering wind face load																
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126x88	1660	1590	1530	1480	1430	1390	1490	1440	1400	1360	1330	1300	1370	1330	1300	1280	1250	1230	1280	1250	1230	1210	1190	1170	1210	1190	1170	1150	1130	1120	1140	1130	1110	1100	1090	1070
168x88	2210	2120	2040	1970	1910	1860	1980	1920	1860	1820	1770	1730	1820	1780	1740	1700	1670	1630	1710	1670	1640	1610	1580	1560	1610	1590	1560	1540	1510	1490	1520	1500	1480	1460	1450	1430
210x88	2650	2640	2540	2460	2380	2320	2470	2400	2330	2270	2210	2160	2280	2220	2170	2120	2080	2040	2130	2090	2050	2010	1980	1940	2020	1980	1950	1920	1890	1860	1900	1880	1850	1830	1810	1790
252x88	2810	2810	2810	2810	2810	2710	2810	2810	2790	2720	2650	2590	2730	2660	2600	2550	2490	2450	2550	2500	2460	2410	2370	2330	2420	2380	2340	2300	2270	2230	2280	2250	2220	2200	2170	2150
294x88	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960	2960
336x88	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100
378x88	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220
420x88	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340
126x126	1870	1790	1720	1660	1610	1570	1670	1620	1570	1530	1500	1460	1540	1500	1470	1440	1410	1380	1440	1410	1380	1360	1340	1310	1360	1340	1320	1300	1280	1260	1300	1280	1260	1240	1230	1210
168x126	2480	2380	2290	2210	2150	2090	2230	2160	2100	2040	1990	1950	2050	2000	1950	1910	1870	1840	1920	1880	1840	1810	1780	1750	1820	1790	1760	1730	1700	1680	1730	1710	1680	1660	1640	1620
210x126	3090	2960	2850	2760	2680	2600	2770	2690	2610	2550	2490	2430	2560	2500	2440	2390	2340	2300	2400	2350	2300	2260	2220	2190	2270	2230	2190	2160	2130	2100	2160	2130	2100	2070	2040	2020
252x126	3700	3540	3420	3300	3200	3120	3320	3220	3130	3050	2980	2910	3060	2990	2920	2860	2800	2750	2870	2810	2760	2710	2660	2620	2720	2670	2630	2590	2550	2510	2590	2560	2520	2480	2450	2420
294x126	4070	4070	3970	3840	3730	3630	3860	3750	3640	3550	3470	3390	3570	3480	3400	3330	3270	3210	3340	3280	3220	3160	3100	3050	3170	3110	3060	3020	2970	2930	3020	2980	2940	2900	2860	2820
336x126	4210	4210	4210	4210	4210	4140	4210	4210	4160	4050	3960	3870	4070	3970	3880	3800	3730	3660	3820	3740	3670	3600	3540	3490	3620	3550	3500	3440	3390	3340	3450	3400	3350	3310	3260	3220
378x126	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340	4340
420x126	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450	4450

a. All dimension units are in millimeters.

Table 49.8: Red Stag GLT_h10 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Light Configuration						GL10						25°-45°						Ignoring wind face load																
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
126x88	1660	1590	1530	1480	1430	1390	1490	1440	1400	1360	1330	1300	1370	1330	1300	1280	1250	1230	1280	1250	1230	1210	1190	1170	1210	1190	1170	1150	1130	1120	1140	1130	1110	1100	1090	1070
168x88	2210	2120	2040	1970	1910	1860	1980	1920	1860	1820	1770	1730	1820	1780	1740	1700	1670	1630	1710	1670	1640	1610	1580	1560	1610	1590	1560	1540	1510	1490	1520	1500	1480	1460	1450	1430
210x88	2760	2640	2540	2460	2380	2320	2470	2400	2330	2270	2210	2160	2280	2220	2170	2120	2080	2040	2130	2090	2050	2010	1980	1940	2020	1980	1950	1920	1890	1860	1900	1880	1850	1830	1810	1790
252x88	3300	3160	3050	2940	2860	2780	2960	2870	2790	2720	2650	2590	2730	2660	2600	2550	2490	2450	2550	2500	2460	2410	2370	2330	2420	2380	2340	2300	2270	2230	2280	2250	2220	2200	2170	2150
294x88	3840	3680	3550	3430	3330	3230	3450	3340	3250	3170	3090	3020	3180	3100	3030	2970	2910	2850	2980	2920	2860	2810	2760	2720	2820	2770	2730	2680	2640	2600	2660	2620	2590	2560	2530	2500
336x88	4380	4200	4050	3910	3800	3690	3930	3810	3710	3610	3530	3450	3630	3540	3460	3390	3320	3260	3400	3330	3270	3210	3150	3100	3220	3160	3110	3060	3020	2980	3010	2970	2930	2900	2870	2830
378x88	4910	4710	4540	4390	4260	4150	4420	4280	4170	4060	3960	3870	4080	3980	3890	3810	3730	3660	3820	3740	3670	3610	3550	3490	3620	3560	3500	3440	3390	3340	3350	3310	3270	3230	3190	3150
126x126	1870	1790	1720	1660	1610	1570	1670	1620	1570	1530	1500	1460	1540	1500	1470	1440	1410	1380	1440	1410	1380	1360	1340	1310	1360	1340	1320	1300	1280	1260	1300	1280	1260	1240	1230	1210
168x126	2480	2380	2290	2210	2150	2090	2230	2160	2100	2040	1990	1950	2050	2000	1950	1910	1870	1840	1920	1880	1840	1810	1780	1750	1820	1790	1760	1730	1700	1680	1730	1710	1680	1660	1640	1620
210x126	3090	2960	2850	2760	2680	2600	2770	2690	2610	2550	2490	2430	2560	2500	2440	2390	2340	2300	2400	2350	2300	2260	2220	2190	2270	2230	2190	2160	2130	2100	2160	2130	2100	2070	2040	2020
252x126	3700	3540	3420	3300	3200	3120	3320	3220	3130	3050	2980	2910	3060	2990	2920	2860	2800	2750	2870	2810	2760	2710	2660	2620	2720	2670	2630	2590	2550	2510	2590	2560	2520	2480	2450	2420
294x126	4300	4120	3970	3840	3730	3630	3860	3750	3640	3550	3470	3390	3570	3480	3400	3330	3270	3210	3340	3280	3220	3160	3100	3050	3170	3110	3060	3020	2970	2930	3020	2980	2940	2900	2860	2820
336x126	4890	4700	4530	4380	4250	4140	4410	4270	4160	4050	3960	3870	4070	3970	3880	3800	3730	3660	3820	3740	3670	3600	3540	3490	3620	3550	3500	3440	3390	3340	3450	3400	3350	3310	3260	3220
378x126	5480	5280	5080	4920	4770	4640	4940	4800	4670	4550	4440	4340	4570	4460	4360	4270	4190	4110	4280	4200	4120	4050	3980	3920	4060	3990	3930	3870	3810	3760	3880	3820	3770	3720	3670	3620

a. All dimension units are in millimeters.

Table 49.9: Red Stag GLT_h12 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Light Configuration						GL12						0°-25°						Considering wind face load																
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
	Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1																							

Table 49.10: Red Stag GL_T_h12 Floor Lintel Span Table ^a

GL _T _h Floor Lintels		Light Configuration						GL12						0°–25°						Ignoring wind face load																
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
126×88	1780	1710	1660	1610	1560	1520	1580	1540	1500	1470	1440	1410	1450	1420	1390	1370	1340	1320	1350	1330	1310	1290	1270	1250	1280	1260	1240	1230	1210	1200	1220	1200	1190	1170	1160	1150
168×88	2360	2280	2210	2140	2080	2030	2100	2050	2000	1960	1920	1880	1930	1890	1860	1820	1790	1760	1800	1770	1750	1720	1690	1670	1700	1680	1660	1640	1620	1600	1620	1600	1580	1570	1550	1530
210×88	2950	2840	2750	2670	2600	2540	2630	2560	2500	2440	2390	2350	2410	2360	2320	2280	2240	2200	2250	2220	2180	2150	2120	2090	2130	2100	2070	2040	2020	2000	2030	2000	1980	1960	1940	1920
252×88	3530	3410	3300	3200	3120	3040	3150	3070	3000	2930	2870	2810	2890	2830	2780	2730	2690	2640	2700	2660	2620	2580	2540	2510	2550	2520	2480	2450	2420	2390	2430	2400	2380	2350	2320	2300
294×88	4110	3970	3840	3730	3630	3540	3670	3580	3490	3410	3340	3280	3370	3300	3240	3180	3130	3080	3150	3100	3050	3000	2960	2920	2980	2940	2900	2860	2830	2790	2840	2800	2770	2740	2710	2680
336×88	4690	4520	4380	4260	4140	4040	4190	4080	3980	3900	3820	3740	3850	3770	3700	3640	3570	3520	3600	3540	3480	3430	3380	3340	3400	3350	3310	3270	3230	3190	3220	3190	3160	3130	3100	3060
378×88	5260	5080	4920	4780	4660	4540	4700	4580	4480	4380	4290	4210	4320	4240	4160	4090	4020	3960	4040	3980	3920	3860	3800	3750	3820	3770	3720	3670	3630	3590	3550	3520	3490	3450	3420	
126×126	2000	1920	1860	1810	1760	1720	1780	1730	1690	1650	1620	1590	1630	1600	1570	1540	1510	1490	1520	1500	1470	1450	1430	1410	1440	1420	1400	1380	1360	1350	1330	1320	1300	1290	1270	1260
168×126	2650	2560	2480	2410	2340	2280	2370	2310	2250	2200	2160	2110	2170	2130	2090	2050	2020	1980	2030	2000	1970	1940	1910	1880	1920	1890	1870	1840	1820	1800	1830	1810	1780	1760	1750	1730
210×126	3310	3190	3090	3000	2920	2850	2950	2880	2810	2750	2690	2640	2710	2660	2610	2560	2520	2480	2530	2490	2450	2420	2380	2350	2400	2360	2330	2300	2270	2250	2280	2260	2230	2200	2180	2160
252×126	3960	3820	3700	3590	3500	3410	3530	3450	3370	3290	3220	3160	3250	3180	3130	3070	3020	2970	3040	2990	2940	2890	2860	2820	2870	2830	2800	2760	2730	2690	2740	2710	2670	2640	2620	2590
294×126	4600	4440	4310	4180	4070	3980	4110	4010	3920	3830	3760	3680	3780	3710	3640	3580	3520	3460	3540	3480	3430	3380	3330	3290	3350	3300	3260	3220	3180	3140	3190	3150	3120	3080	3050	3020
336×126	5240	5060	4910	4770	4650	4540	4690	4580	4470	4370	4290	4200	4320	4230	4160	4080	4020	3950	4040	3980	3910	3860	3800	3750	3820	3770	3720	3670	3630	3590	3640	3600	3560	3520	3480	3450
378×126	5880	5680	5510	5360	5220	5090	5270	5140	5020	4910	4810	4720	4850	4760	4670	4590	4510	4440	4540	4470	4400	4330	4270	4220	4300	4240	4180	4130	4080	4030	4100	4050	4000	3960	3910	3870

a. All dimension units are in millimeters.

Table 49.11: Red Stag GL_T_h12 Floor Lintel Span Table ^a

GL _T _h Floor Lintels		Light Configuration						GL12						25°–45°						Considering wind face load																	
Beam Size	Wind Zone																																				
	Low to Extra High																																				
	Floor loaded width (mm)																																				
	1000						2000						3000						4000						5000						6000						
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)							
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000		
126×88	1740	1670	1600	1550	1500	1460	1560	1510	1470	1430	1390	1360	1430	1400	1370	1340	1310	1280	1340	1310	1290	1260	1240	1220	1270	1250	1230	1210	1190	1170	1210	1190	1170	1160	1140	1130	
168×88	2320	2220	2140	2060	2000	1940	2080	2010	1960	1900	1860	1810	1910	1860	1820	1780	1750	1710	1790	1750	1720	1690	1660	1630	1690	1660	1630	1610	1580	1560	1610	1590	1570	1540	1520	1500	
210×88	2770	2770	2670	2590	2500	2430	2590	2510	2440	2370	2320	2280	2390	2330	2270	2220	2180	2140	2230	2190	2150	2110	2070	2040	2110	2080	2040	2010	1980	1950	2020	1990	1960	1930	1900	1880	
252×88	2950	2950	2950	2950	2950	2890	2950	2950	2920	2850	2780	2720	2860	2790	2730	2670	2610	2560	2680	2620	2570	2530	2480	2440	2530	2490	2450	2410	2370	2340	2420	2380	2350	2310	2280	2250	
294×88	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3050	2990	3100	3060	3000	2940	2890	2850	2950	2900	2860	2810	2770	2730	2820	2780	2740	2700	2660	2630	
336×88	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	3250	
378×88	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380	3380
420×88	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500
126×126	1960	1870	1800	1740	1690	1640	1750	1700	1650	1610	1570	1530	1610	1570	1540	1500	1470	1450	1510	1480	1450	1420	1400	1380	1430	1400	1380	1360	1340	1320	1360	1340	1320	1300	1290	1270	
168×126	2600	2490	2400	2320	2250	2190	2330	2260	2200	2140	2090	2040	2150	2100	2050	2000	1960	1930	2010	1970	1930	1900	1860	1830	1900	1870	1840	1810	1780	1760	1820	1790	1760	1740	1710	1690	
210×126	3240	3100	2990	2890	2800	2730	2910	2820	2740	2670	2600	2550	2680	2610	2560	2500	2450	2410	2510	2460	2410	2370	2330	2290	2380	2340	2300	2260	2230	2200	2270	2230	2200	2170	2140	2110	
252×126	3870	3710	3580	3460	3360	3270	3480	3370	3280	3200	3120	3050	3210	3130	3060	3000	2940	2880	3010	2950	2890	2840	2790	2750	2850	2800	2750	2710	2670	2630	2720	2680	2640	2600	2570	2540	
294×126	4220	4220	4160	4030	3910	3800	4050	3930	3820	3720	3630	3550	3740	3650	3570	3490	3420	3360	3500	3430	3370	3310	3250	3200	3320	3260	3210	3160	3110	3070	3170	3120	3080	3030	2990	2960	
336×126	4360	4360	4360	4360	4360	4330	4360	4360	4360	4360	4240	4140	4050	4260	4160	4070	3980	3910	3830	4000	3920	3840	3780	3710	3650	3790	3720	3660	3610	3550	3500	3620	3560	3510	3460	3420	3380
378×126	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490	4490
420×126	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610	4610

a. All dimension units are in millimeters.

Table 49.12: Red Stag GL_T_h12 Floor Lintel Span Table ^a

GL _T _h Floor Lintels		Light Configuration						GL12						25°–45°						Ignoring wind face load															
Beam Size	Wind Zone																																		
	Low to Extra High																																		
	Floor loaded width (mm)																																		
	1000						2000						3000						4000						5000						6000				
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)</											

Table 49.13: Red Stag GLT_h8 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Heavy Configuration										GL8										0°–25°										Considering wind face load									
Beam Size	Wind Zone																																								
	Low to Extra High																																								
	Floor loaded width (mm)																																								
	1000						2000						3000						4000						5000						6000										
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)											
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000						
126x88	1270	1220	1170	1130	1090	1060	1190	1150	1110	1080	1050	1020	1130	1090	1060	1030	1010	980	1070	1040	1020	990	970	950	1030	1000	980	960	940	920	990	970	950	930	920	900					
168x88	1700	1620	1560	1510	1460	1420	1590	1530	1480	1440	1400	1360	1500	1460	1410	1380	1340	1310	1430	1390	1360	1330	1300	1270	1370	1340	1310	1280	1260	1230	1320	1290	1270	1240	1220	1200					
210x88	2120	2030	1950	1880	1830	1770	1990	1910	1850	1800	1750	1700	1880	1820	1770	1720	1680	1640	1790	1740	1700	1660	1620	1590	1720	1680	1640	1600	1570	1540	1650	1620	1590	1560	1530	1500					
252x88	2540	2430	2340	2260	2190	2130	2380	2290	2220	2150	2100	2040	2250	2180	2120	2070	2020	1970	2150	2090	2040	1990	1950	1910	2060	2010	1970	1920	1890	1850	1980	1940	1900	1870	1830	1800					
294x88	2750	2750	2730	2640	2550	2480	2780	2680	2590	2510	2440	2380	2630	2550	2470	2410	2350	2300	2500	2440	2380	2320	2270	2220	2400	2340	2290	2240	2200	2160	2310	2270	2220	2180	2140	2100					
336x88	2870	2870	2870	2870	2870	2830	2870	2870	2870	2870	2790	2720	2870	2870	2830	2750	2690	2630	2860	2780	2710	2650	2590	2540	2740	2680	2620	2560	2510	2470	2620	2570	2520	2470	2430	2390					
378x88	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990					
420x88	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100	3100					
126x126	1430	1370	1320	1270	1230	1200	1340	1290	1250	1210	1180	1150	1270	1230	1190	1160	1130	1110	1210	1180	1150	1120	1100	1070	1160	1130	1110	1080	1060	1040	1120	1090	1070	1050	1030	1010					
168x126	1910	1830	1760	1700	1640	1600	1790	1720	1670	1620	1570	1530	1690	1640	1590	1550	1510	1480	1610	1570	1530	1490	1460	1430	1550	1510	1480	1440	1420	1390	1490	1460	1430	1400	1380	1350					
210x126	2390	2280	2200	2120	2050	2000	2230	2150	2080	2020	1970	1920	2110	2050	1990	1940	1890	1850	2010	1960	1910	1870	1830	1790	1930	1890	1840	1810	1770	1740	1860	1820	1790	1750	1720	1690					
252x126	2860	2740	2630	2540	2460	2390	2680	2580	2500	2420	2360	2300	2530	2460	2390	2320	2270	2220	2420	2350	2290	2240	2190	2150	2320	2260	2210	2170	2120	2080	2230	2190	2140	2100	2060	2030					
294x126	3330	3190	3070	2960	2870	2790	3120	3010	2910	2820	2750	2680	2950	2860	2780	2710	2650	2590	2820	2740	2670	2610	2560	2500	2700	2640	2580	2530	2480	2430	2610	2550	2500	2450	2410	2370					
336x126	3800	3640	3500	3380	3280	3190	3560	3430	3320	3230	3140	3060	3370	3270	3180	3100	3020	2950	3220	3130	3050	2980	2920	2860	3090	3010	2950	2890	2830	2780	2960	2910	2850	2800	2750	2700					
378x126	4100	4090	3930	3800	3690	3580	4000	3860	3740	3630	3530	3440	3790	3670	3570	3480	3400	3320	3620	3520	3430	3350	3280	3220	3470	3390	3310	3240	3180	3120	3350	3270	3210	3150	3090	3040					
420x126	4210	4210	4210	4210	4090	3980	4210	4210	4150	4030	3920	3820	4200	4080	3960	3860	3770	3690	4010	3910	3810	3720	3640	3570	3850	3760	3680	3600	3530	3470	3710	3640	3560	3500	3430	3380					

a. All dimension units are in millimeters.

Table 49.14: Red Stag GLT_h8 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Heavy Configuration										GL8										0°–25°										Ignoring wind face load									
Beam Size	Wind Zone																																								
	Low to Extra High																																								
	Floor loaded width (mm)																																								
	1000						2000						3000						4000						5000						6000										
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)											
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000						
126x88	1270	1220	1170	1130	1090	1060	1190	1150	1110	1080	1050	1020	1130	1090	1060	1030	1010	980	1070	1040	1020	990	970	950	1030	1000	980	960	940	920	990	970	950	930	920	900					
168x88	1700	1620	1560	1510	1460	1420	1590	1530	1480	1440	1400	1360	1500	1460	1410	1380	1340	1310	1430	1390	1360	1330	1300	1270	1370	1340	1310	1280	1260	1230	1320	1290	1270	1240	1220	1200					
210x88	2120	2030	1950	1880	1830	1770	1990	1910	1850	1800	1750	1700	1880	1820	1770	1720	1680	1640	1790	1740	1700	1660	1620	1590	1720	1680	1640	1600	1570	1540	1650	1620	1590	1560	1530	1500					
252x88	2540	2430	2340	2260	2190	2130	2380	2290	2220	2150	2100	2040	2250	2180	2120	2070	2020	1970	2150	2090	2040	1990	1950	1910	2060	2010	1970	1920	1890	1850	1980	1940	1900	1870	1830	1800					
294x88	2970	2840	2730	2640	2550	2480	2780	2680	2590	2510	2440	2380	2630	2550	2470	2410	2350	2300	2500	2440	2380	2320	2270	2220	2400	2340	2290	2240	2200	2160	2310	2270	2220	2180	2140	2100					
336x88	3390	3240	3120	3010	2920	2830	3170	3060	2960	2870	2790	2720	3000	2910	2830	2750	2690	2630	2860	2780	2710	2650	2590	2540	2740	2680	2620	2560	2510	2470	2620	2570	2520	2470	2430	2390					
378x88	3810	3640	3500	3380	3280	3190	3560	3440	3320	3230	3140	3060	3370	3270	3180	3100	3020	2950	3220	3130	3050	2980	2920	2860	3090	3010	2950	2890	2830	2770	2920	2880	2810	2750	2710	2660					
126x126	1430	1370	1320	1270	1230	1200	1340	1290	1250	1210	1180	1150	1270	1230	1190	1160	1130	1110	1210	1180	1150	1120	1100	1070	1160	1130	1110	1080	1060	1040	1120	1090	1070	1050	1030	1010					
168x126	1910	1830	1760	1700	1640	1600	1790	1720	1670	1620	1570	1530	1690	1640	1590	1550	1510	1480	1610	1570	1530	1490	1460	1430	1550	1510	1480	1440	1420	1390	1490	1460	1430	1400	1380	1350					
210x126	2390	2280	2200	2120	2050	2000	2230	2150	2080	2020	1970	1920	2110	2050	1990	1940	1890	1850	2010	1960	1910	1870	1830	1790	1930	1890	1840	1810	1770	1740	1860	1820	1790	1750	1720	1690					
252x126	2860	2740	2630	2540	2460	2390	2680	2580	2500	2420	2360	2300	2530	2460	2390	2320	2270	2220	2420	2350	2290	2240	2190	2150	2320	2260	2210	2170	2120	2080	2230	2190	2140	2100	2060	2030					
294x126	3330	3190	3070	2960	2870	2790	3120	3010	2910	2820	2750	2680	2950	2860	2780	2710	2650	2590	2820	2740	2670	2610	2560	2500	2700	2640	2580	2530	2480	2430	2610	2550	2500	2450	2410	2370					
336x126	3800	3640	3500	3380	3280	3190	3560	3430	3320	3230	3140	3060	3370	3270	3180	3100	3020	2950	3220	3130	3050	2980	2920	2860	3090	3010	2950	2890	2830	2780	2960	2910	2850	2800	2750	2700					
378x126	4270	4090	3930	3800	3690	3580	4000	3860	3740	3630	3530	3440	3790	3670	3570	3480	3400	3320	3620	3520	3430	3350	3280	3220	3470	3390	3310	3240	3180	3120	3350	3270	3210	3150	3090	3040					

a. All dimension units are in millimeters.

Table 49.15: Red Stag GLT_h8 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Heavy Configuration										GL8										25°–45°										Considering wind face load									
Beam Size	Wind Zone																																								
	Low to Extra High																																								
	Floor loaded width (mm)																																								
	1000						2000						3000						4000						5000						6000										
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)											
1000	2000	3000	4000	5000	6000	1																																			

Table 49.16: Red Stag GL_Th8 Floor Lintel Span Table ^a

GL _T h Floor Lintels		Heavy Configuration						GL8						25°–45°						Ignoring wind face load																	
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																				
	1000						2000						3000						4000						5000						6000						
	Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)						
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000		
126×88	1250	1180	1130	1080	1050	1010	1170	1120	1080	1040	1010	980	1110	1070	1030	1000	970	950	1060	1020	990	970	940	920	1020	990	960	940	910	890	980	960	930	910	890	870	
168×88	1660	1580	1510	1450	1400	1350	1560	1490	1430	1390	1340	1300	1480	1420	1380	1330	1300	1260	1410	1370	1330	1290	1260	1230	1360	1320	1280	1250	1220	1190	1310	1270	1240	1210	1190	1160	
210×88	2080	1970	1880	1810	1740	1690	1950	1860	1790	1730	1680	1630	1850	1780	1720	1670	1620	1580	1770	1710	1660	1610	1570	1530	1700	1650	1600	1560	1530	1490	1640	1590	1550	1520	1490	1460	
252×88	2490	2360	2260	2170	2090	2030	2340	2240	2150	2080	2010	1950	2220	2130	2060	2000	1940	1890	2120	2050	1990	1930	1880	1840	2030	1980	1920	1870	1830	1790	1960	1910	1860	1820	1780	1750	
294×88	2900	2750	2630	2530	2440	2360	2720	2610	2510	2420	2350	2280	2580	2490	2400	2330	2270	2210	2470	2390	2320	2250	2200	2150	2370	2300	2240	2190	2130	2090	2290	2230	2170	2120	2080	2040	
336×88	3310	3140	3000	2890	2790	2700	3110	2980	2860	2770	2680	2600	2950	2840	2750	2660	2590	2520	2820	2730	2650	2570	2500	2450	2710	2630	2560	2500	2440	2390	2350	2300	2240	2190	2150	2100	
378×88	3720	3530	3370	3240	3130	3030	3490	3350	3220	3110	3010	2930	3320	3190	3090	2990	2910	2840	3170	3070	2980	2900	2820	2760	3050	2960	2880	2810	2740	2680	2630	2580	2530	2470	2410	2360	2310
126×126	1400	1330	1270	1220	1180	1140	1320	1260	1210	1170	1130	1100	1250	1200	1160	1130	1090	1070	1190	1150	1120	1090	1060	1040	1150	1110	1080	1050	1030	1010	1110	1080	1050	1030	1000	980	
168×126	1870	1770	1690	1630	1570	1520	1750	1680	1620	1560	1510	1470	1660	1600	1550	1500	1460	1420	1590	1540	1490	1450	1410	1380	1530	1480	1440	1410	1370	1340	1470	1440	1400	1370	1340	1310	
210×126	2330	2210	2120	2030	1960	1900	2190	2100	2020	1950	1890	1830	2080	2000	1930	1880	1820	1780	1990	1920	1860	1810	1770	1730	1910	1850	1800	1760	1720	1680	1840	1790	1750	1710	1670	1640	
252×126	2790	2650	2540	2440	2350	2280	2630	2510	2420	2340	2260	2200	2490	2400	2320	2250	2190	2130	2380	2300	2240	2170	2120	2070	2290	2220	2160	2110	2060	2020	2210	2150	2100	2050	2010	1970	
294×126	3250	3090	2950	2840	2740	2660	3060	2930	2820	2720	2640	2560	2900	2800	2700	2620	2550	2480	2780	2690	2610	2540	2470	2410	2670	2590	2520	2460	2400	2350	2280	2230	2180	2130	2090	2040	
336×126	3710	3530	3370	3240	3130	3030	3490	3340	3220	3110	3010	2930	3310	3190	3090	2990	2910	2840	3170	3070	2980	2900	2820	2760	3050	2960	2880	2810	2740	2690	2640	2590	2540	2490	2440	2390	2340
378×126	4170	3960	3790	3640	3520	3410	3920	3760	3620	3490	3390	3290	3720	3590	3470	3370	3270	3190	3560	3450	3350	3260	3170	3100	3420	3330	3240	3160	3090	3020	3310	3220	3140	3070	3010	2950	

a. All dimension units are in millimeters.

Table 49.17: Red Stag GL_Th10 Floor Lintel Span Table ^a

GL _T h Floor Lintels		Heavy Configuration						GL10						0°–25°						Considering wind face load																	
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																																				
	1000						2000						3000						4000						5000						6000						
	Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)		Roof loaded width (mm)				
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000		
126×88	1370	1310	1260	1220	1180	1150	1280	1240	1200	1160	1130	1100	1210	1180	1140	1110	1090	1060	1160	1130	1100	1070	1050	1030	1110	1080	1060	1040	1020	1000	1070	1050	1020	1000	990	970	
168×88	1830	1750	1680	1620	1570	1530	1710	1650	1600	1550	1510	1470	1620	1570	1520	1480	1450	1410	1540	1500	1460	1430	1400	1370	1480	1440	1410	1380	1350	1330	1420	1390	1370	1340	1320	1290	
210×88	2290	2190	2100	2030	1970	1910	2140	2060	1990	1930	1880	1830	2020	1960	1900	1850	1810	1770	1930	1880	1830	1790	1750	1710	1850	1810	1760	1730	1690	1660	1780	1740	1710	1680	1650	1620	
252×88	2740	2620	2520	2440	2360	2290	2560	2470	2390	2320	2260	2200	2430	2350	2280	2230	2170	2120	2310	2250	2190	2140	2100	2050	2220	2170	2120	2070	2030	1990	2140	2090	2050	2010	1970	1940	
294×88	2960	2960	2940	2840	2750	2670	2960	2880	2790	2710	2630	2570	2830	2740	2660	2600	2530	2480	2700	2630	2560	2500	2450	2400	2590	2530	2470	2420	2370	2330	2490	2440	2390	2350	2300	2260	
336×88	3100	3100	3100	3100	3100	3040	3100	3100	3100	3090	3010	2930	3100	3100	3040	2960	2890	2830	3080	3000	2920	2860	2790	2740	2960	2890	2820	2760	2710	2660	2820	2760	2710	2660	2610	2570	
378×88	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3180	3220	3220	3220	3220	3210	3140	3080	3220	3220	3170	3110	3050	2990	3140	3080	3020	2960	2910	2860	
420×88	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3150
126×126	1550	1480	1420	1370	1330	1290	1450	1390	1350	1310	1270	1240	1370	1320	1290	1250	1220	1200	1300	1270	1240	1210	1180	1160	1250	1220	1190	1170	1140	1120	1200	1180	1150	1130	1110	1090	
168×126	2060	1970	1890	1830	1770	1720	1930	1860	1800	1740	1700	1650	1820	1770	1720	1670	1630	1590	1740	1690	1650	1610	1570	1540	1670	1630	1590	1560	1530	1500	1610	1570	1540	1510	1480	1460	
210×126	2570	2490	2370	2280	2210	2150	2410	2320	2240	2180	2120	2070	2280	2210	2140	2090	2040	1990	2170	2110	2060	2010	1970	1930	2080	2030	1990	1950	1910	1870	2010	1960	1920	1890	1850	1820	
252×126	3080	2950	2840	2740	2650	2580	2880	2780	2690	2610	2540	2480	2730	2650	2570	2500	2440	2390	2600	2530	2470	2410	2360	2310	2500	2440	2380	2330	2290	2410	2360	2310	2260	2220	2190		
294×126	3590	3440	3300	3190	3090	3010	3360	3240	3140	3040	2960	2890	3180	3080	3000	2920	2850	2790	3030	2950	2880	2810	2750	2700	2910	2840	2780	2720	2670	2620	2810	2750	2690	2640	2590	2550	
336×126	4090	3920	3770	3640	3530	3430	3840	3700	3580	3480	3380	3300	3630	3520	3420	3330	3250	3180	3470	3370	3290	3210	3140	3080	3330	3250	3170	3110	3050	2990	3210	3140	3070	3020	2960	2910	
378×126	4340	4340	4240	4100	3970	3860	4310	4160	4020	3910	3800	3710	4080	3960	3850	3750	3660	3580	3890	3790	3700	3610	3540	3460	3740	3650	3570	3500	3430	3360	3600	3530	3460	3390	3330	3270	
420×126	4450	4450	4450	4450	4410	4280	4450	4450	4450	4450	4450	4450	4450	4390	4270	4160	4060	3970	4320	4210	4110	4010	3930	3850	4150	4050	3960	3880	3810	3740	4000	3920	3840	3770	3700	3640	

a. All dimension units are in millimeters.

Table 49.18: Red Stag GL_Th10 Floor Lintel Span Table ^a

GL _T h Floor Lintels		Heavy Configuration						GL10						0°–25°						Ignoring wind face load										
Beam Size	Wind Zone Low to Extra High Floor loaded width (mm)																													

Table 49.19: Red Stag GLT_h10 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Heavy Configuration						GL10						25°-45°						Considering wind face load																	
Beam Size	Wind Zone																																				
	Low to Extra High																																				
	Floor loaded width (mm)																																				
	1000						2000						3000						4000						5000						6000						
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)							
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000		
126x88	1340	1270	1220	1170	1130	1090	1260	1210	1160	1120	1080	1050	1200	1150	1110	1080	1050	1020	1140	1100	1070	1040	1010	990	1100	1060	1030	1010	990	960	1060	1030	1000	980	960	940	
168x88	1790	1700	1620	1560	1500	1460	1680	1610	1550	1490	1450	1400	1590	1530	1480	1440	1400	1360	1520	1470	1430	1390	1350	1320	1460	1420	1380	1350	1310	1290	1410	1370	1340	1310	1280	1250	
210x88	2240	2120	2030	1950	1880	1820	2100	2010	1930	1870	1810	1760	1990	1920	1850	1800	1750	1700	1900	1840	1780	1740	1690	1650	1830	1770	1730	1680	1640	1610	1760	1720	1670	1640	1600	1570	
252x88	2680	2540	2430	2340	2250	2180	2520	2410	2320	2240	2170	2110	2390	2300	2220	2150	2090	2040	2280	2210	2140	2080	2030	1980	2190	2130	2070	2020	1970	1930	2110	2060	2010	1960	1920	1880	
294x88	2960	2860	2720	2630	2540	2470	2960	2850	2760	2670	2600	2530	2820	2710	2620	2530	2460	2390	2680	2570	2480	2430	2370	2310	2560	2480	2410	2350	2300	2250	2470	2400	2340	2290	2240	2200	
336x88	3100	3100	3100	3100	3000	2910	3100	3100	3080	2980	2890	2810	3100	3060	2960	2870	2790	2720	3040	2940	2850	2770	2700	2640	2920	2830	2760	2690	2630	2570	2790	2720	2660	2600	2540	2490	
378x88	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3220	3160	3220	3220	3220	3220	3160	3220	3220	3220	3220	3220	3220	3220	3220	3190	3100	3020	2960	2890	3110	3030	2960	2890	2830	2770	
420x88	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3340	3280	3210	3340	3120	3050
126x126	1510	1430	1370	1320	1270	1230	1420	1360	1310	1260	1220	1190	1350	1300	1250	1210	1180	1150	1290	1240	1210	1170	1140	1120	1230	1200	1170	1140	1110	1090	1190	1160	1130	1100	1080	1060	
168x126	2010	1910	1830	1750	1690	1640	1890	1810	1740	1680	1630	1590	1790	1730	1670	1620	1570	1530	1710	1660	1610	1560	1520	1490	1650	1600	1550	1520	1480	1450	1590	1550	1510	1470	1440	1410	
210x126	2510	2380	2280	2190	2110	2050	2360	2260	2170	2100	2030	1980	2240	2160	2080	2020	1960	1910	2140	2070	2010	1950	1900	1860	2060	2000	1940	1890	1850	1810	1980	1930	1880	1840	1800	1770	
252x126	3010	2860	2730	2630	2530	2450	2830	2710	2610	2520	2440	2370	2680	2590	2500	2420	2360	2300	2570	2480	2410	2340	2280	2230	2470	2390	2330	2270	2220	2170	2380	2320	2260	2210	2160	2120	
294x126	3500	3330	3180	3060	2950	2860	3300	3160	3040	2930	2840	2760	3130	3010	2910	2830	2750	2680	2990	2890	2810	2730	2660	2600	2870	2790	2720	2650	2590	2530	2770	2700	2640	2580	2520	2470	
336x126	4000	3800	3630	3490	3370	3270	3760	3600	3470	3350	3250	3160	3570	3440	3330	3230	3140	3060	3410	3300	3210	3120	3040	2970	3280	3190	3100	3030	2960	2890	3170	3090	3010	2940	2880	2820	
378x126	4340	4200	4080	3920	3790	3670	4220	4050	3890	3760	3650	3550	4010	3870	3740	3630	3530	3440	3840	3710	3600	3510	3420	3340	3690	3590	3490	3400	3320	3250	3560	3470	3380	3310	3240	3170	
420x126	4450	4450	4450	4360	4210	4080	4450	4450	4320	4180	4050	3940	4450	4290	4150	4030	3920	3820	4260	4120	4000	3890	3800	3710	4090	3980	3870	3780	3690	3610	3950	3850	3760	3670	3600	3520	

a. All dimension units are in millimeters.

Table 49.20: Red Stag GLT_h10 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Heavy Configuration						GL10						25°-45°						Ignoring wind face load																
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
126x88	1340	1270	1220	1170	1130	1090	1260	1210	1160	1120	1080	1050	1200	1150	1110	1080	1050	1020	1140	1100	1070	1040	1010	990	1100	1060	1030	1010	990	960	1060	1030	1000	980	960	940
168x88	1790	1700	1620	1560	1500	1460	1680	1610	1550	1490	1450	1400	1590	1530	1480	1440	1400	1360	1520	1470	1430	1390	1350	1320	1460	1420	1380	1350	1310	1290	1410	1370	1340	1310	1280	1250
210x88	2240	2120	2030	1950	1880	1820	2100	2010	1930	1870	1810	1760	1990	1920	1850	1800	1750	1700	1900	1840	1780	1740	1690	1650	1830	1770	1730	1680	1640	1610	1760	1720	1670	1640	1600	1570
252x88	2680	2540	2430	2340	2250	2180	2520	2410	2320	2240	2170	2110	2390	2300	2220	2150	2090	2040	2280	2210	2140	2080	2030	1980	2190	2130	2070	2020	1970	1930	2110	2060	2010	1960	1920	1880
294x88	3120	2960	2830	2720	2630	2540	2930	2810	2700	2610	2530	2460	2780	2680	2590	2510	2440	2380	2660	2570	2500	2430	2370	2310	2560	2480	2410	2350	2300	2250	2470	2400	2340	2290	2240	2200
336x88	3560	3380	3230	3110	3000	2910	3350	3210	3080	2980	2890	2810	3180	3060	2960	2870	2790	2720	3040	2940	2850	2770	2700	2640	2920	2830	2760	2690	2630	2570	2790	2720	2660	2600	2540	2490
378x88	4000	3800	3640	3490	3370	3270	3760	3600	3470	3350	3250	3160	3570	3440	3330	3230	3140	3060	3420	3300	3210	3120	3040	2970	3280	3190	3100	3030	2960	2890	3110	3030	2960	2890	2830	2770
126x126	1510	1430	1370	1320	1270	1230	1420	1360	1310	1260	1220	1190	1350	1300	1250	1210	1180	1150	1290	1240	1210	1170	1140	1120	1230	1200	1170	1140	1110	1090	1190	1160	1130	1100	1080	1060
168x126	2010	1910	1830	1750	1690	1640	1890	1810	1740	1680	1630	1590	1790	1730	1670	1620	1570	1530	1710	1660	1610	1560	1520	1490	1650	1600	1550	1520	1480	1450	1590	1550	1510	1470	1440	1410
210x126	2510	2380	2280	2190	2110	2050	2360	2260	2170	2100	2030	1980	2240	2160	2080	2020	1960	1910	2140	2070	2010	1950	1900	1860	2060	2000	1940	1890	1850	1810	1980	1930	1880	1840	1800	1770
252x126	3010	2860	2730	2630	2530	2450	2830	2710	2610	2520	2440	2370	2680	2590	2500	2420	2360	2300	2570	2480	2410	2340	2280	2230	2470	2390	2330	2270	2220	2170	2380	2320	2260	2210	2160	2120
294x126	3500	3330	3180	3060	2950	2860	3300	3160	3040	2930	2840	2760	3130	3010	2910	2830	2750	2680	2990	2890	2810	2730	2660	2600	2870	2790	2720	2650	2590	2530	2770	2700	2640	2580	2520	2470
336x126	4000	3800	3630	3490	3370	3270	3760	3600	3470	3350	3250	3160	3570	3440	3330	3230	3140	3060	3410	3300	3210	3120	3040	2970	3280	3190	3100	3030	2960	2890	3170	3090	3010	2940	2880	2820
378x126	4490	4270	4080	3920	3790	3670	4220	4050	3890	3760	3650	3550	4010	3870	3740	3630	3530	3440	3840	3710	3600	3510	3420	3340	3690	3590	3490	3400	3320	3250	3560	3470	3380	3310	3240	3170

a. All dimension units are in millimeters.

Table 49.21: Red Stag GLT_h12 Floor Lintel Span Table ^a

GLT _h Floor Lintels		Heavy Configuration						GL12						0°-25°						Considering wind face load															
Beam Size	Wind Zone																																		
	Low to Extra High																																		
	Floor loaded width (mm)																																		
	1000						2000						3000						4000						5000						6000				
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)					
1000	2000	3000	4000																																

Table 50.2: Red Stag Vertix₁₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Light Configuration										Vertex ₁₀										0°–25°					Ignoring wind face load									
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000					2000					3000					4000					5000					6000										
Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)											
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88×88	1150	1110	1070	1040	1010	990	1020	1000	970	950	930	910	940	920	900	890	870	860	880	860	850	840	820	810	830	820	800	790	780	770	780	770	760	760	750	740
140×88	1830	1760	1710	1660	1610	1570	1630	1590	1550	1510	1480	1450	1490	1460	1440	1410	1390	1360	1390	1360	1350	1330	1310	1290	1320	1300	1280	1270	1250	1230	1240	1230	1220	1210	1200	1190
190×88	2480	2390	2310	2250	2190	2130	2210	2150	2100	2050	2010	1970	2030	1990	1950	1910	1880	1850	1890	1860	1830	1800	1780	1750	1790	1760	1740	1720	1700	1680	1690	1670	1660	1640	1620	1610
240×88	3120	3010	2920	2830	2760	2690	2780	2710	2650	2590	2540	2490	2560	2510	2460	2410	2370	2340	2390	2350	2310	2280	2250	2220	2260	2230	2200	2170	2140	2120	2130	2110	2090	2070	2050	2030
290×88	3760	3630	3520	3420	3330	3240	3360	3270	3200	3130	3060	3000	3090	3020	2970	2920	2870	2820	2880	2840	2790	2750	2710	2680	2730	2690	2650	2620	2590	2560	2580	2550	2530	2500	2480	2460
300×88	3890	3760	3640	3530	3440	3350	3470	3390	3310	3230	3170	3110	3190	3130	3070	3020	2960	2920	2980	2930	2890	2850	2810	2770	2820	2780	2740	2710	2680	2640	2660	2640	2610	2590	2560	2540
315×88	4080	3940	3820	3710	3610	3520	3650	3550	3470	3390	3320	3260	3350	3280	3220	3160	3110	3060	3130	3080	3030	2990	2940	2900	2960	2920	2880	2840	2810	2780	2790	2760	2730	2710	2680	2660
350×88	4530	4370	4240	4110	4010	3910	4050	3940	3850	3770	3690	3620	3720	3650	3580	3510	3460	3400	3480	3420	3370	3320	3270	3230	3290	3240	3200	3160	3120	3080	3070	3040	3010	2980	2950	2920
360×88	4660	4500	4350	4230	4120	4020	4160	4050	3960	3870	3790	3720	3820	3750	3680	3610	3550	3500	3580	3520	3460	3410	3360	3320	3380	3330	3290	3250	3210	3170	3150	3120	3090	3060	3030	3000
400×88	5160	4990	4830	4690	4570	4460	4610	4500	4400	4300	4210	4130	4240	4160	4080	4010	3940	3880	3970	3900	3840	3790	3730	3680	3750	3700	3650	3610	3560	3520	3460	3430	3400	3360	3330	3300
126×126	1850	1790	1730	1680	1630	1590	1650	1610	1570	1530	1500	1470	1510	1480	1460	1430	1400	1380	1410	1390	1370	1350	1330	1310	1340	1320	1300	1280	1270	1250	1270	1260	1240	1230	1210	1200
250×126	3640	3520	3410	3310	3220	3140	3250	3170	3100	3030	2970	2910	2990	2930	2880	2830	2780	2740	2800	2750	2710	2670	2630	2600	2650	2610	2570	2540	2510	2480	2520	2490	2460	2430	2410	2380
300×126	4360	4210	4080	3960	3860	3760	3900	3800	3710	3630	3560	3490	3580	3510	3450	3390	3330	3280	3350	3300	3250	3200	3150	3110	3170	3130	3090	3050	3010	2970	3020	2990	2950	2920	2890	2860
350×126	5060	4890	4740	4610	4490	4380	4530	4420	4320	4230	4140	4060	4170	4090	4020	3950	3880	3820	3900	3840	3780	3730	3680	3630	3690	3640	3600	3550	3510	3470	3520	3480	3440	3400	3370	3330
400×126	5770	5570	5400	5250	5120	5000	5170	5040	4930	4820	4720	4630	4760	4670	4580	4500	4430	4360	4460	4380	4320	4250	4190	4140	4220	4160	4100	4050	4000	3960	4020	3970	3930	3890	3840	3800
210×210	3600	3480	3370	3280	3190	3120	3220	3140	3070	3010	2940	2890	2970	2910	2860	2810	2760	2720	2780	2730	2690	2650	2610	2580	2630	2590	2560	2520	2490	2460	2500	2480	2450	2420	2390	2370
400×210	6710	6490	6310	6140	5970	5750	6040	5900	5770	5650	5540	5440	5580	5480	5380	5290	5200	5120	5240	5150	5080	5010	4940	4870	4960	4900	4830	4770	4720	4660	4740	4680	4630	4580	4530	4480

^a All dimension units are in millimeters.

Table 50.4: Red Stag Vertix₁₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Light Configuration						Vertex ₁₀						25°–45°						Ignoring wind face load																
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000					2000					3000					4000					5000					6000										
Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)											
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88×88	1130	1080	1040	1000	970	950	1010	980	950	930	900	880	930	910	880	870	850	830	870	850	830	820	800	790	820	810	790	780	770	760	780	770	760	750	740	730
140×88	1800	1720	1650	1600	1550	1500	1610	1560	1510	1470	1440	1400	1480	1440	1410	1380	1350	1320	1380	1350	1330	1300	1280	1260	1310	1290	1260	1240	1230	1210	1240	1220	1210	1190	1180	1160
190×88	2430	2330	2240	2160	2100	2040	2180	2110	2050	2000	1950	1900	2000	1950	1910	1870	1830	1800	1880	1840	1800	1770	1740	1710	1770	1740	1720	1690	1660	1640	1680	1660	1640	1620	1600	1580
240×88	3060	2930	2820	2730	2650	2570	2740	2660	2580	2520	2460	2400	2530	2470	2410	2360	2310	2270	2370	2320	2270	2230	2200	2160	2240	2200	2170	2130	2100	2070	2120	2090	2070	2040	2020	1990
290×88	3690	3530	3400	3290	3190	3100	3310	3210	3120	3040	2960	2900	3050	2980	2910	2850	2790	2740	2860	2800	2750	2700	2650	2610	2700	2660	2610	2570	2540	2500	2560	2530	2500	2470	2440	2410
300×88	3810	3650	3520	3400	3300	3210	3420	3320	3220	3140	3070	3000	3150	3080	3010	2940	2890	2830	2950	2900	2840	2790	2740	2700	2800	2750	2700	2660	2620	2580	2650	2620	2580	2550	2520	2490
315×88	4000	3830	3690	3570	3460	3370	3590	3480	3380	3300	3220	3150	3310	3230	3160	3090	3030	2970	3100	3040	2980	2930	2880	2830	2940	2890	2840	2790	2750	2710	2770	2730	2700	2670	2640	2610
350×88	4430	4250	4100	3960	3840	3740	3980	3860	3750	3660	3570	3490	3670	3590	3500	3430	3360	3300	3440	3370	3310	3250	3200	3140	3260	3200	3150	3100	3060	3010	3050	3010	2970	2940	2910	2870
360×88	4560	4370	4210	4070	3950	3840	4100	3970	3860	3760	3670	3590	3780	3690	3600	3530	3460	3390	3540	3470	3400	3340	3290	3230	3350	3300	3240	3190	3140	3100	3130	3090	3050	3020	2980	2950
400×88	5050	4850	4670	4520	4380	4260	4540	4410	4280	4170	4070	3980	4190	4090	4000	3920	3840	3770	3930	3850	3780	3710	3650	3590	3720	3660	3600	3540	3490	3440	3400	3360	3320	3280	3240	
126×126	1820	1740	1670	1620	1570	1520	1630	1580	1530	1490	1450	1420	1500	1460	1430	1400	1370	1340	1400	1370	1350	1320	1300	1280	1330	1300	1280	1260	1240	1220	1260	1250	1230	1210	1190	1180
250×126	3570	3420	3300	3190	3090	3010	3200	3110	3020	2940	2870	2810	2960	2880	2820	2760	2710	2650	2770	2710	2660	2620	2570	2530	2620	2580	2540	2500	2460	2420	2500	2470	2430	2400	2370	2340
300×126	4260	4090	3940	3810	3700	3600	3830	3720	3620	3520	3440	3360	3540	3450	3380	3310	3240	3180	3320	3250	3190	3130	3080	3030	3140	3090	3040	2990	2950	2910	3000	2960	2910	2870	2840	2800
350×126	4950	4750	4580	4430	4300	4190	4460	4330	4210	4100	4000	3920	4120	4020	3930	3850	3770	3700	3860	3790	3720	3650	3590	3530	3660	3600	3540	3490	3430	3390	3500	3440	3390	3350	3300	3260
400×126	5630	5410	5220	5050	4910	4770	5080	4930	4800	4680	4570	4470	4700	4580	4480	4390	4310	4230	4410	4320	4240	4160	4090	4030	4180	4110	4040	3980	3920	3870	3990	3930	3870	3820	3770	3730
210×210	3520	3380	3260	3150	3060	2980	3170	3080	2990	2920	2850	2780	2930	2860	2800	2740	2680	2630	2750	2690	2640	2600	2550	2510	2600	2560	2520	2480	2440	2410	2490	2450	2410	2380	2350	2320
400×210	6520	6280	6070	5890	5730	5580	5920	5750	5610	5470	5350	5240	5490	5370	5250	5150	5050	4960	5170	5070	4980	4890	4810	4740	4910	4830	4750	4680	4610	4550	4690	4620	4560	4500	4440	4390

^a All dimension units are in millimeters.

Table 50.6: Red Stag Vertix₁₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Light Configuration						Vertex ₂₀						0°–25°						Ignoring wind face load																
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88×88	1250	1200	1160	1130	1100	1070	1110	1080	1050	1030	1010	990	1020	1000	980	960	940	930	950	930	920	910	890	880	900	880	870	860	850	840	830	830	820	810	800	800
140×88	1980	1910	1850	1800	1750	1700	1760	1720	1680	1640	1610	1570	1620	1590	1560	1530	1500	1480	1510	1490	1460	1440	1420	1400	1430	1410	1390	1370	1350	1340	1330	1320	1300	1280	1270	
190×88	2690	2590	2510	2430	2370	2310	2390	2330	2280	2220	2180	2140	2200	2150	2110	2070	2040	2010	2050	2020	1990	1960	1930	1900	1940	1910	1890	1860	1840	1820	1800	1790	1770	1750	1740	1720
240×88	3380	3280	3160	3070	2990	2910	3020	2940	2870	2810	2750	2700	2770	2720	2660	2620	2570	2530	2590	2550	2510	2470	2430	2400	2450	2410	2380	2350	2320	2290	2280	2260	2240	2210	2190	2170
290×88	4080	3940	3810	3700	3600	3520	3640	3550	3460	3390	3320	3250	3340	3280	3220	3160	3110	3060	3130	3070	3030	2980	2940	2900	2950	2910	2870	2840	2800	2770	2750	2730	2700	2670	2650	2630
300×88	4220	4070	3940	3830	3730	3640	3760	3670	3580	3500	3430	3370	3460	3390	3330	3270	3210	3160	3230	3180	3130	3080	3040	3000	3060	3010	2970	2940	2900	2860	2850	2820	2790	2770	2740	2720
315×88	4420	4270	4140	4020	3910	3820	3950	3850	3760	3680	3600	3530	3630	3560	3490	3430	3370	3320	3390	3340	3290	3240	3190	3150	3210	3160	3120	3080	3040	3010	2980	2950	2920	2890	2870	2840
350×88	4910	4740	4590	4460	4340	4230	4380	4270	4170	4080	4000	3920	4030	3950	3880	3810	3740	3680	3770	3710	3650	3590	3540	3500	3550	3510	3470	3420	3380	3340	3280	3250	3220	3180	3160	3130
360×88	5040	4870	4720	4580	4460	4350	4510	4390	4290	4200	4110	4030	4140	4060	3990	3920	3850	3790	3870	3810	3750	3700	3640	3590	3650	3600	3560	3520	3480	3440	3360	3330	3300	3270	3240	3210
400×88	5590	5400	5230	5090	4950	4830	5000	4880	4760	4660	4560	4480	4600	4510	4420	4350	4270	4210	4300	4230	4170	4100	4050	3990	4010	3970	3920	3880	3840	3800	3700	3670	3630	3600	3560	3530
126×126	2010	1940	1870	1820	1770	1730	1790	1740	1700	1660	1630	1600	1640	1610	1580	1550	1520	1500	1530	1510	1480	1460	1440	1420	1450	1430	1410	1390	1370	1360	1380	1360	1350	1330	1320	1300
250×126	3950	3810	3690	3590	3490	3410	3530	3440	3360	3280	3220	3160	3240	3180	3120	3060	3010	2960	3030	2980	2940	2890	2850	2810	2870	2830	2790	2750	2720	2690	2730	2700	2670	2640	2610	2580
300×126	4720	4560	4420	4290	4180	4080	4220	4120	4020	3930	3850	3780	3880	3810	3740	3670	3610	3550	3630	3570	3520	3470	3420	3370	3440	3390	3340	3300	3260	3220	3280	3240	3200	3160	3130	3100
350×126	5490	5300	5140	4990	4870	4750	4910	4790	4680	4580	4490	4400	4520	4430	4350	4280	4200	4140	4230	4160	4100	4040	3980	3930	4000	3950	3900	3850	3800	3760	3820	3770	3730	3690	3650	3610
400×126	6250	6040	5860	5690	5550	5370	5600	5460	5340	5220	5120	5020	5160	5060	4960	4880	4800	4720	4830	4750	4680	4610	4550	4480	4570	4510	4450	4390	4340	4290	4360	4310	4260	4210	4160	4120
210×210	3900	3770	3650	3550	3460	3380	3490	3410	3330	3260	3190	3130	3210	3150	3090	3040	2990	2940	3010	2960	2910	2870	2830	2790	2850	2810	2770	2740	2700	2670	2710	2680	2650	2620	2590	2570
400×210	7270	7040	6830	6630	6340	6100	6550	6390	6250	6120	6000	5890	6050	5930	5830	5730	5640	5550	5670	5580	5500	5420	5350	5280	5380	5300	5240	5170	5110	5050	5130	5070	5020	4960	4910	4860

^a All dimension units are in millimeters.

Table 50.8: Red Stag Vertix₂₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Light Configuration						Vertex ₂₀						25°–45°						Ignoring wind face load																
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000				2000				3000				4000				5000				6000															
Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)				Roof loaded width (mm)																
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88×88	1230	1170	1130	1090	1060	1030	1100	1060	1030	1000	980	960	1010	980	960	940	920	900	940	920	900	890	870	860	890	870	860	850	830	820	830	820	810	800	790	780
140×88	1950	1860	1790	1730	1680	1630	1740	1690	1640	1590	1560	1520	1600	1560	1530	1490	1460	1440	1500	1470	1440	1410	1390	1370	1420	1390	1370	1350	1330	1310	1320	1310	1290	1270	1260	1250
190×88	2630	2520	2430	2350	2270	2210	2360	2290	2220	2160	2110	2060	2170	2120	2070	2030	1980	1950	2030	1990	1950	1920	1880	1850	1920	1890	1860	1830	1800	1780	1800	1770	1750	1730	1710	1690
240×88	3320	3180	3060	2960	2870	2790	2970	2880	2800	2730	2660	2600	2740	2670	2610	2560	2500	2460	2560	2510	2460	2420	2380	2340	2430	2390	2350	2310	2280	2240	2270	2240	2210	2190	2160	2140
290×88	3990	3830	3690	3570	3460	3360	3590	3480	3380	3290	3210	3140	3310	3220	3150	3080	3020	2970	3100	3030	2980	2920	2870	2830	2930	2880	2830	2790	2750	2710	2740	2700	2670	2640	2610	2580
300×88	4130	3960	3810	3690	3580	3480	3710	3590	3490	3400	3320	3250	3420	3330	3260	3190	3130	3070	3200	3140	3080	3020	2970	2920	3030	2980	2930	2890	2840	2800	2830	2800	2760	2730	2700	2670
315×88	4330	4150	4000	3870	3750	3650	3890	3770	3670	3570	3490	3410	3590	3500	3420	3350	3280	3220	3360	3290	3230	3170	3120	3070	3180	3130	3080	3030	2980	2940	2960	2920	2890	2850	2820	2790
350×88	4800	4610	4440	4290	4160	4050	4320	4190	4070	3960	3870	3780	3980	3880	3800	3720	3640	3570	3730	3660	3590	3520	3460	3410	3530	3470	3420	3360	3310	3270	3260	3220	3180	3140	3110	3070
360×88	4940	4740	4560	4410	4280	4160	4440	4300	4180	4080	3980	3890	4090	3990	3900	3820	3750	3680	3840	3760	3690	3620	3560	3500	3620	3570	3510	3460	3410	3360	3340	3300	3260	3220	3190	3150
400×88	5470	5250	5060	4900	4750	4620	4920	4770	4640	4520	4420	4320	4540	4430	4330	4240	4160	4080	4260	4170	4090	4020	3950	3890	3990	3930	3870	3820	3770	3720	3680	3640	3590	3550	3510	3470
126×126	1970	1880	1810	1750	1700	1650	1760	1710	1660	1620	1580	1540	1620	1580	1550	1510	1480	1450	1520	1490	1460	1430	1410	1380	1440	1410	1390	1370	1350	1330	1370	1350	1330	1310	1290	1280
250×126	3860	3710	3570	3450	3350	3260	3470	3370	3270	3190	3110	3040	3200	3130	3060	2990	2930	2880	3000	2940	2890	2830	2790	2740	2840	2790	2750	2710	2670	2630	2710	2670	2630	2600	2560	2530
300×126	4620	4430	4270	4130	4010	3900	4150	4030	3920	3820	3730	3650	3830	3740	3660	3580	3510	3450	3590	3520	3460	3400	3340	3280	3410	3350	3290	3240	3190	3150	3250	3200	3160	3110	3070	3030
350×126	5360	5150	4960	4810	4660	4540	4830	4690	4560	4440	4340	4240	4460	4360	4260	4170	4090	4010	4190	4100	4030	3950	3890	3830	3970	3900	3840	3780	3720	3670	3790	3730	3680	3630	3580	3540
400×126	6100	5860	5650	5470	5320	5170	5500	5340	5200	5070	4950	4840	5090	4970	4860	4760	4660	4580	4770	4680	4590	4510	4440	4370	4530	4450	4380	4310	4250	4190	4320	4260	4200	4140	4090	4040
210×210	3810	3660	3530	3420	3320	3230	3440	3330	3240	3160	3090	3020	3170	3100	3030	2970	2910	2850	2980	2920	2860	2810	2760	2720	2820	2770	2730	2690	2650	2610	2690	2650	2620	2580	2550	2510
400×210	7070	6810	6580	6380	6210	6050	6420	6240	6070	5930	5790	5670	5950	5820	5690	5580	5470	5380	5600	5490	5390	5300	5210	5130	5320	5230	5150	5070	5000	4930	5080	5010	4940	4870	4810	4750

a. All dimension units are in millimeters.

Table 50.10: Red Stag Vertix₁₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Heavy Configuration						Vertix ₁₀						0°–25°						Ignoring wind face load																
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000					2000					3000					4000					5000					6000										
Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)					Roof loaded width (mm)											
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88×88	930	890	860	830	800	780	870	840	810	790	770	750	820	800	770	750	740	720	780	760	740	730	710	700	750	730	720	700	690	680	720	710	690	680	670	660
140×88	1480	1420	1360	1320	1280	1240	1390	1340	1290	1250	1220	1190	1310	1270	1230	1200	1170	1150	1250	1220	1190	1160	1130	1110	1200	1170	1140	1120	1100	1080	1160	1130	1110	1090	1070	1050
190×88	2010	1920	1850	1790	1730	1680	1880	1810	1750	1700	1660	1610	1780	1720	1680	1630	1590	1560	1700	1650	1610	1570	1540	1510	1630	1590	1550	1520	1490	1460	1570	1530	1500	1470	1450	1420
240×88	2540	2430	2340	2260	2190	2120	2380	2290	2220	2150	2090	2040	2250	2180	2120	2060	2010	1970	2140	2090	2030	1990	1940	1900	2060	2010	1960	1920	1880	1850	1980	1940	1900	1860	1830	1800
290×88	3070	2930	2820	2720	2640	2560	2870	2770	2680	2600	2530	2460	2710	2630	2560	2490	2430	2370	2590	2520	2460	2400	2350	2300	2480	2420	2370	2320	2270	2230	2390	2340	2290	2250	2210	2170
300×88	3170	3030	2920	2820	2730	2650	2970	2860	2770	2690	2610	2550	2810	2720	2640	2580	2510	2460	2680	2610	2540	2480	2430	2380	2570	2510	2450	2400	2350	2310	2480	2420	2370	2330	2290	2250
315×88	3330	3180	3060	2960	2870	2780	3110	3000	2910	2820	2740	2670	2950	2860	2780	2700	2640	2580	2810	2730	2670	2610	2550	2500	2700	2630	2570	2520	2470	2420	2600	2540	2490	2440	2400	2360
350×88	3690	3540	3400	3280	3180	3090	3460	3330	3230	3130	3050	2970	3270	3170	3080	3000	2930	2860	3120	3040	2960	2890	2830	2770	2990	2920	2860	2800	2740	2690	2860	2800	2750	2700	2650	2610
360×88	3800	3640	3500	3380	3270	3180	3560	3430	3320	3220	3130	3050	3370	3260	3170	3090	3010	2950	3210	3120	3050	2980	2910	2850	3080	3010	2940	2880	2820	2770	2930	2880	2820	2770	2720	2670
400×88	4220	4040	3880	3750	3630	3530	3950	3810	3680	3580	3480	3390	3740	3620	3520	3430	3350	3270	3570	3470	3380	3310	3230	3170	3420	3340	3270	3200	3130	3080	3230	3170	3110	3050	3000	2950
126×126	1500	1440	1380	1330	1290	1260	1410	1350	1310	1270	1240	1210	1330	1290	1250	1220	1190	1160	1270	1230	1200	1170	1150	1120	1220	1190	1160	1140	1110	1090	1170	1150	1120	1100	1080	1060
250×126	2970	2840	2740	2640	2560	2490	2780	2680	2600	2520	2450	2390	2630	2550	2480	2420	2360	2310	2510	2440	2380	2330	2280	2230	2410	2350	2300	2250	2210	2170	2320	2270	2230	2180	2150	2110
300×126	3560	3410	3280	3170	3070	2980	3330	3220	3110	3020	2940	2870	3160	3060	2970	2900	2830	2760	3010	2930	2860	2790	2730	2680	2820	2760	2700	2650	2600	2790	2730	2670	2620	2570	2530	
350×126	4150	3970	3820	3690	3580	3480	3880	3750	3630	3520	3430	3340	3680	3570	3470	3380	3300	3220	3510	3420	3330	3260	3180	3120	3370	3290	3220	3150	3090	3030	3250	3180	3110	3060	3000	2950
400×126	4730	4530	4360	4210	4080	3970	4430	4280	4140	4020	3910	3810	4200	4070	3960	3860	3760	3680	4010	3900	3800	3720	3640	3560	3850	3750	3670	3600	3530	3460	3710	3630	3560	3490	3430	3370
210×210	2950	2820	2720	2620	2540	2470	2760	2660	2580	2500	2440	2370	2610	2540	2460	2400	2340	2290	2500	2430	2370	2310	2260	2220	2390	2340	2290	2240	2190	2150	2310	2260	2210	2170	2130	2100
400×210	5550	5320	5130	4960	4810	4680	5210	5030	4870	4730	4610	4500	4940	4790	4660	4550	4440	4340	4720	4600	4490	4380	4290	4210	4530	4430	4330	4240	4160	4090	4370	4280	4200	4120	4050	3980

^a. All dimension units are in millimeters.

Table 50.12: Red Stag Vertix₁₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Heavy Configuration										Vertex ₁₀										25°–45°						Ignoring wind face load													
Beam Size	Wind Zone																																								
	Low to Extra High																																								
	Floor loaded width (mm)																																								
	1000						2000						3000						4000						5000						6000										
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)											
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000
88×88		860	830	790	760	740	860	820	790	760	740	710	810	780	750	730	710	690	770	750	730	710	690	670	740	720	700	680	670	650	720	700	680	660	650	640					
140×88	1450	1380	1310	1260	1220	1180	1360	1300	1250	1210	1170	1140	1290	1240	1200	1160	1130	1100	1230	1190	1160	1120	1100	1070	1180	1150	1120	1090	1060	1040	1140	1110	1080	1060	1040	1020					
190×88	1970	1870	1780	1710	1650	1600	1850	1770	1700	1640	1590	1540	1750	1690	1630	1580	1540	1500	1670	1620	1570	1530	1490	1450	1610	1560	1520	1480	1450	1410	1550	1510	1470	1440	1410	1380					
240×88	2480	2380	2250	2160	2090	2020	2330	2230	2150	2070	2010	1950	2210	2130	2060	2000	1940	1890	2110	2040	1980	1930	1880	1840	2030	1970	1920	1870	1830	1790	1960	1910	1860	1820	1780	1740					
290×88	3000	2840	2720	2610	2520	2440	2810	2690	2590	2500	2430	2360	2670	2570	2490	2410	2340	2280	2550	2470	2400	2330	2270	2220	2450	2380	2320	2260	2210	2160	2370	2300	2250	2200	2150	2110					
300×88	3100	2940	2810	2700	2610	2520	2910	2790	2680	2590	2510	2440	2760	2660	2570	2490	2420	2360	2640	2550	2480	2410	2350	2290	2540	2460	2400	2340	2280	2230	2450	2380	2320	2270	2220	2180					
315×88	3250	3090	2950	2840	2740	2650	3060	2920	2810	2720	2630	2560	2900	2790	2700	2620	2540	2480	2770	2680	2600	2530	2470	2410	2660	2590	2520	2450	2400	2340	2570	2500	2440	2380	2330	2290					
350×88	3610	3430	3280	3150	3040	2940	3390	3250	3120	3020	2920	2840	3220	3100	3000	2910	2830	2750	3080	2980	2890	2810	2740	2680	2960	2870	2790	2720	2660	2600	2830	2760	2700	2640	2580	2530					
360×88	3710	3520	3370	3240	3130	3030	3490	3340	3210	3100	3010	2920	3310	3190	3080	2990	2910	2830	3160	3060	2970	2890	2820	2750	3040	2950	2870	2800	2740	2680	2900	2830	2770	2700	2650	2590					
400×88	4120	3910	3740	3600	3470	3360	3870	3710	3570	3450	3340	3250	3680	3540	3420	3320	3230	3140	3510	3400	3300	3210	3130	3060	3380	3280	3190	3110	3040	2980	3200	3120	3040	2980	2910	2850					
126×126	1470	1390	1330	1280	1230	1200	1380	1320	1270	1230	1190	1150	1310	1260	1220	1180	1150	1120	1250	1210	1170	1140	1110	1080	1200	1170	1130	1110	1080	1060	1160	1130	1100	1070	1050	1030					
250×126	2900	2760	2640	2530	2450	2370	2730	2610	2510	2430	2350	2290	2590	2490	2410	2340	2270	2220	2480	2400	2320	2260	2200	2150	2380	2310	2250	2190	2140	2100	2300	2240	2180	2130	2090	2040					
300×126	3480	3300	3160	3040	2930	2840	3270	3130	3010	2910	2820	2740	3100	2990	2890	2800	2730	2660	2970	2870	2790	2710	2640	2580	2850	2770	2700	2630	2570	2510	2750	2680	2620	2560	2500	2450					
350×126	4050	3850	3680	3540	3420	3310	3810	3650	3510	3390	3290	3200	3620	3480	3370	3270	3180	3100	3460	3350	3250	3160	3080	3010	3320	3230	3140	3060	2990	2930	3210	3130	3050	2980	2920	2860					
400×126	4610	4390	4200	4040	3900	3780	4340	4160	4010	3870	3750	3650	4130	3980	3850	3730	3630	3540	3950	3820	3710	3610	3520	3440	3790	3690	3590	3500	3420	3350	3660	3570	3480	3400	3330	3270					
210×210	2880	2730	2620	2510	2430	2350	2710	2590	2500	2410	2340	2270	2570	2480	2390	2320	2260	2200	2460	2380	2310	2250	2190	2140	2360	2290	2230	2180	2130	2080	2280	2220	2170	2120	2070	2030					
400×210	5400	5140	4930	4750	4590	4450	5090	4890	4710	4560	4420	4300	4850	4680	4530	4390	4270	4170	4640	4500	4370	4250	4150	4050	4470	4340	4230	4130	4030	3950	4320	4210	4110	4010	3930	3850					

^a. All dimension units are in millimeters.

Table 50.14: Red Stag Vertix₂₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Heavy Configuration										Vertex ₂₀						0°–25°						Ignoring wind face load												
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88×88		970	930	900	870	840	940	910	880	850	830	810	890	860	840	820	800	780	850	830	810	790	770	750	820	800	780	760	750	730	780	760	750	730	720	710
140×88	1610	1540	1480	1430	1380	1340	1500	1450	1400	1360	1320	1290	1420	1380	1340	1300	1270	1240	1360	1320	1290	1250	1230	1200	1300	1270	1240	1210	1190	1170	1240	1210	1190	1170	1150	1130
190×88	2180	2090	2010	1940	1880	1820	2040	1970	1900	1840	1790	1750	1930	1870	1820	1770	1730	1690	1840	1790	1740	1700	1670	1630	1760	1720	1680	1650	1610	1580	1680	1650	1620	1590	1560	1530
240×88	2750	2630	2530	2440	2370	2300	2570	2480	2400	2330	2270	2210	2440	2360	2290	2230	2180	2130	2320	2260	2200	2150	2100	2060	2230	2170	2130	2080	2040	2000	2120	2080	2040	2010	1970	1940
290×88	3320	3180	3060	2950	2860	2780	3110	3000	2900	2810	2740	2670	2940	2850	2770	2700	2630	2570	2800	2730	2660	2600	2540	2490	2690	2630	2570	2510	2460	2420	2570	2520	2470	2420	2380	2340
300×88	3440	3290	3160	3050	2960	2870	3210	3100	3000	2910	2830	2760	3040	2950	2870	2790	2720	2660	2900	2820	2750	2690	2630	2580	2780	2720	2660	2600	2550	2500	2650	2600	2550	2510	2460	2420
315×88	3610	3450	3320	3200	3110	3020	3370	3250	3150	3050	2970	2900	3190	3100	3010	2930	2860	2790	3050	2960	2890	2820	2760	2710	2920	2850	2790	2730	2680	2630	2780	2720	2670	2620	2570	2530
350×88	4000	3830	3680	3560	3450	3350	3750	3610	3500	3390	3300	3220	3550	3440	3340	3250	3180	3100	3380	3290	3210	3140	3070	3010	3250	3170	3100	3030	2970	2920	3060	3000	2940	2890	2840	2790
360×88	4120	3940	3790	3660	3550	3450	3850	3720	3600	3490	3390	3310	3650	3530	3440	3350	3270	3190	3480	3390	3300	3220	3150	3090	3340	3260	3190	3120	3060	3000	3140	3070	3020	2960	2910	2860
400×88	4570	4370	4210	4060	3940	3830	4280	4130	3990	3870	3770	3680	4050	3930	3820	3720	3630	3550	3860	3760	3670	3580	3500	3430	3700	3620	3540	3460	3400	3330	3450	3380	3320	3260	3200	3150
126×126	1630	1560	1500	1450	1400	1360	1520	1470	1420	1380	1340	1310	1440	1400	1360	1320	1290	1260	1370	1340	1300	1270	1240	1220	1320	1290	1260	1230	1210	1180	1270	1240	1220	1190	1170	1150
250×126	3220	3080	2960	2860	2770	2700	3020	2910	2810	2730	2660	2590	2850	2770	2690	2620	2560	2500	2720	2650	2580	2520	2470	2420	2610	2550	2490	2440	2390	2350	2520	2460	2410	2370	2320	2280
300×126	3860	3690	3550	3430	3330	3230	3610	3480	3370	3270	3180	3100	3420	3320	3220	3140	3060	3000	3260	3180	3100	3030	2960	2900	3130	3060	2990	2930	2870	2820	3020	2950	2890	2840	2790	2740
350×126	4490	4300	4140	4000	3880	3770	4210	4060	3930	3810	3710	3620	3990	3860	3760	3660	3570	3490	3800	3700	3610	3530	3450	3380	3650	3560	3480	3410	3350	3280	3520	3440	3370	3310	3250	3200
400×126	5120	4910	4720	4560	4420	4300	4800	4630	4480	4350	4240	4130	4550	4410	4290	4180	4080	3990	4340	4230	4120	4030	3940	3860	4170	4070	3980	3900	3820	3750	4020	3930	3850	3780	3710	3650
210×210	3190	3060	2940	2840	2760	2680	2990	2890	2790	2710	2640	2570	2830	2750	2670	2600	2540	2480	2700	2630	2570	2510	2450	2400	2590	2530	2480	2430	2380	2330	2500	2450	2400	2350	2310	2270
400×210	6010	5760	5550	5370	5210	5070	5640	5450	5280	5130	4990	4870	5350	5190	5050	4930	4810	4700	5110	4980	4860	4750	4650	4560	4910	4800	4690	4600	4510	4430	4740	4640	4550	4460	4390	4310

^a All dimension units are in millimeters.

Table 50.16: Red Stag Vertix₂₀ Floor Lintel Span Table ^a

Vertex Floor Lintels		Heavy Configuration						Vertex ₂₀						25°–45°						Ignoring wind face load																
Beam Size	Wind Zone																																			
	Low to Extra High																																			
	Floor loaded width (mm)																																			
	1000						2000						3000						4000						5000						6000					
Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						Roof loaded width (mm)						
1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	1000	2000	3000	4000	5000	6000	
88×88	990	940	900	860	830	800	930	890	850	820	800	770	880	850	820	790	770	750	840	810	790	770	750	730	810	780	760	740	720	710	770	750	730	720	700	690
140×88	1570	1490	1420	1370	1320	1280	1480	1410	1360	1310	1270	1230	1400	1350	1300	1260	1230	1190	1340	1290	1250	1220	1190	1160	1280	1250	1210	1180	1150	1130	1230	1200	1170	1140	1120	1090
190×88	2130	2020	1930	1860	1790	1730	2000	1920	1840	1780	1720	1670	1900	1830	1770	1710	1660	1620	1810	1750	1700	1650	1610	1570	1740	1690	1650	1600	1570	1530	1670	1620	1590	1550	1520	1490
240×88	2690	2550	2440	2340	2260	2190	2530	2420	2330	2250	2180	2110	2400	2310	2230	2160	2100	2050	2290	2220	2150	2090	2040	1990	2200	2140	2080	2030	1980	1940	2100	2050	2000	1960	1920	1880
290×88	3250	3080	2950	2830	2730	2650	3050	2920	2810	2710	2630	2550	2890	2790	2690	2610	2540	2470	2770	2680	2600	2520	2460	2400	2660	2580	2510	2450	2390	2340	2540	2480	2420	2370	2320	2270
300×88	3360	3190	3050	2930	2830	2740	3150	3020	2900	2810	2720	2640	2990	2880	2790	2700	2630	2560	2860	2770	2680	2610	2550	2490	2750	2670	2600	2530	2470	2420	2630	2560	2500	2450	2400	2350
315×88	3520	3340	3200	3070	2970	2870	3310	3170	3050	2940	2850	2770	3140	3030	2920	2840	2760	2690	3000	2900	2820	2740	2670	2610	2890	2800	2730	2660	2600	2540	2750	2680	2620	2560	2500	2450
350×88	3910	3710	3550	3410	3290	3190	3680	3520	3390	3270	3170	3080	3490	3360	3250	3150	3060	2980	3330	3230	3130	3040	2970	2900	3200	3110	3030	2950	2880	2820	3020	2950	2880	2820	2760	2700
360×88	4020	3820	3650	3510	3390	3280	3780	3620	3480	3360	3260	3170	3590	3450	3340	3240	3150	3070	3430	3320	3220	3130	3050	2980	3300	3200	3110	3040	2970	2900	3100	3030	2960	2890	2830	2770
400×88	4460	4240	4050	3900	3760	3640	4200	4020	3870	3730	3620	3520	3980	3840	3710	3600	3500	3410	3810	3680	3570	3480	3390	3310	3660	3550	3460	3370	3290	3220	3420	3330	3260	3180	3120	3050
126×126	1590	1510	1440	1390	1340	1300	1500	1430	1380	1330	1290	1250	1420	1370	1320	1280	1240	1210	1360	1310	1270	1240	1200	1180	1300	1260	1230	1200	1170	1140	1260	1220	1190	1160	1140	1120
250×126	3150	2990	2860	2750	2650	2570	2960	2830	2720	2630	2550	2480	2810	2700	2610	2530	2460	2400	2680	2600	2520	2450	2390	2330	2580	2500	2440	2380	2320	2270	2490	2420	2360	2310	2260	2220
300×126	3770	3580	3420	3290	3180	3080	3540	3390	3260	3150	3060	2970	3360	3240	3130	3040	2950	2880	3220	3110	3020	2940	2860	2800	3090	3000	2920	2850	2780	2720	2980	2910	2830	2770	2710	2660
350×126	4390	4170	3990	3830	3700	3590	4130	3950	3800	3680	3560	3460	3920	3770	3650	3540	3440	3360	3750	3630	3520	3420	3340	3260	3600	3500	3400	3320	3240	3170	3480	3390	3300	3230	3160	3100
400×126	5000	4750	4550	4370	4220	4090	4710	4510	4340	4190	4070	3950	4470	4310	4170	4040	3930	3830	4280	4140	4020	3910	3810	3720	4110	3990	3890	3790	3710	3630	3970	3870	3770	3690	3610	3540
210×210	3120	2960	2830	2730	2630	2550	2930	2810	2700	2610	2530	2460	2790	2680	2600	2520	2450	2390	2660	2580	2500	2430	2370	2320	2560	2490	2420	2360	2310	2260	2470	2410	2350	2300	2250	2200
400×210	5850	5570	5340	5140	4970	4820	5520	5300	5100	4940	4790	4660	5250	5070	4900	4760	4630	4520	5030	4870	4730	4610	4490	4390	4840	4700	4580	4470	4370	4280	4680	4560	4450	4350	4260	4180

^a All dimension units are in millimeters.