

AUSTRALIAN STRUCTURAL LAMINATED BEAMS – LIGHT ROOF

LINTELS SUPPORTING ROOF ONLY – LIGHT ROOF

Section Size dxb (mm)	Span of Glulam Beam, L (m)									
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
	Maximum Tributary Width (m) at Span L									
140 x 65	6.8	2.9	1.4							
180 x 65		6.1	3.1	1.8	1.1					
240 x 65			7.4	4.3	2.7	1.8	1.2			
280 x 65				6.8	4.3	2.9	2.0	1.4	1.0	
320 x 65					6.4	4.3	3.0	2.2	1.6	1.2

Light Roof Beams Fully Restrained
 Wind Speed = High
 Deflection Limit = span / 400
Glulam Grade = GL8

ROOF BEAMS, RAFTERS & RIDGES – LIGHT ROOF

Section Size dxb (mm)	Span Glulam Beam, L (m)														
	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
	Maximum Tributary Width (m) at Span L														
140 x 65	9.6	4.8	2.4	1.3											
140 x 65 Precambered		5.4	3.2	1.8	1.1										
precamber required (mm)		5.0	6.0	7.0	9.0										
180 x 65		9.6	5.2	2.9	1.8	1.1									
180 x 65 Precambered			6.1	3.9	2.5	1.6	1.1								
precamber required (mm)			6.0	7.0	9.0	10.0	11.0								
240 x 65				7.1	4.4	2.9	1.9	1.4	1.0						
240 x 65 Precambered				8.0	5.8	3.9	2.8	2.0	1.5	1.1	0.9				
precamber required (mm)				7.0	9.0	10.0	11.0	13.0	14.0	15.0	17.0				
280 x 65					7.1	4.6	3.2	2.3	1.6	1.2	0.9				
280 x 65 Precambered					8.2	6.2	4.4	3.2	2.4	1.8	1.4	1.1	0.9		
precamber required (mm)					9.0	10.0	11.0	13.0	14.0	15.0	17.0	19.0	20.0		
320 x 65						7.0	4.9	3.5	2.5	1.9	1.4	1.1			
320 x 65 Precambered						8.3	6.5	4.8	3.6	2.8	2.2	1.7	1.4	1.1	0.9
precamber required (mm)						10.0	11.0	13.0	14.0	15.0	16.0	18.0	19.0	20.0	23.0

Light Roof Beams Fully Restrained @ Top Edge Only
 Wind Speed = Medium
 Roof Pitch < 20°
 Maximum Precamber = 1.5 x Dead Load deflection or span / 400 whichever is the least
 If precamber width not shown there is no additional benefit of precamber
 Deflection Limit = span / 300
Glulam Grade = GL8



AUSTRALIAN STRUCTURAL LAMINATED BEAMS – HEAVY ROOF

LINTELS SUPPORTING ROOF ONLY – HEAVY ROOF

Section Size dxb (mm)	Span of Glulam Beam, L (m)							
	1.5	2	2.5	3	3.5	4	4.5	5
	Maximum Tributary Width (m) at span L							
140 x 65	4.6	1.9						
180 x 65	9.9	4.1	2.0	1.1				
240 x 65		9.9	5.0	2.8	1.7	1.1		
280 x 65			8.0	4.5	2.8	1.8	1.2	
320 x 65				6.9	4.2	2.8	1.9	1.3

Heavy Roof Beams Fully Restrained
 Wind Speed = High
 Deflection Limit = Span/400
Glulam Grade = GL8

ROOF BEAMS, RAFTERS & RIDGES – HEAVY ROOF

Section Size dxb (mm)	Span Glulam Beam, L (m)												
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
	Maximum Tributary Width (m) at Span L												
140 x 65	5.7	2.7	1.3										
140 x 65 Precambered		3.1	2.0	1.3									
precamber required (mm)		5.0	7.0	8.0									
180 x 65		5.6	2.9	1.6	1.0								
180 x 65 Precambered		5.6	3.5	2.4	1.8	1.2							
precamber required (mm)		5.0	7.0	8.0	10.0	10.0							
240 x 65			6.8	4.0	2.4	1.6	1.1						
240 x 65 Precambered			6.8	4.7	3.4	2.6	2.0	1.5	1.1				
precamber required (mm)			7.0	8.0	9.0	11.0	13.0	13.0	14.0				
280 x 65			9.5	6.4	4.0	2.6	1.8	1.2	0.9				
280 x 65 Precambered			9.5	6.6	4.8	3.6	2.8	2.3	1.8	1.4	1.0		
precamber required (mm)			6.0	8.0	10.0	11.0	13.0	13.0	15.0	17.0	18.0		
320 x 65				8.7	6.0	3.9	2.7	1.9	1.4	1.0			
320 x 65 Precambered				8.7	6.4	4.8	3.8	3.0	2.5	2.0	1.6	1.2	0.9
precamber required (mm)				7.0	10.0	11.0	12.0	14.0	15.0	16.0	18.0	19.0	19.0

Heavy Roof Beams Fully Restrained @ Top Edge Only
 Wind Speed = Medium
 Roof Pitch < 20°
 Maximum Precamber = 1.5 Dead Load deflection or span / 400 whichever is the least
 Deflection Limit = span / 300
 If precamber width not shown there is no additional benefit of precamber
Glulam Grade = GL8

