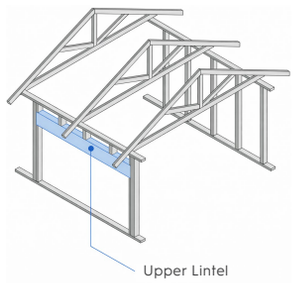
NelsonPine LVL13: Span tables/charts



Lintels are beams contained with load bearing walls over windows or doors. They transfer the vertical loads applied over the opening to the jack studs on each side.

BASIC LOADING DATA

Wind Area = Very High
Snow Load, SG = 0.9kPa

Wind Design Strength Pressure = 1.5 kPa
Wind Serviceability Pressure = 1.1 kPa
Min. End Bearing Length = 35 mm
Service Class = Internal Protected

Uplift Fixings	
FIXING	**CAPACITY**
F	4.0 kN
G	7.5 kN
H	13.5 kN
SED	18.0 kN

TABLE 1: LIGHT SHEET ROOF - WITH CEILING - 40KG/M2

Roofing: Sheet (20kg/m2)
Ceiling: 13mm P'Board = (20kg/m2)

Version 2.0 - April 2026	Single Span: Hyne Design - Table 1					
NP Frame LVL13	Roof Load Width (m)					
Single Span	**1.80**	**2.10**	**2.40**	**3.00**	**4.00**	**5.00**
2/150 x 45	3400	3300	3100	2800	2600	2300
2/200 x 45	4200	4100	3900	3700	3400	3100
2/240 x 45	4800	4700	4500	4300	3900	3700
2/300 x 45	5700	5500	5300	5000	4600	4400*
2/360 x 45	6500	6200	6100	5700	5300	5000*
2/400 x 45	7000	6700	6500	6200	5700*	5400*
2/460 x 45	7700	7400	7200	6800	6400*	6000*
2/610 x 45	9300	9000	8800*	8400*	7800*	7400*

Table values relate to Allowable Maximum Span in mm

TABLE 2: HEAVY TILE ROOF - WITH CEILING - 90KG/M2

Roofing: Terracotta Tiles (70kg/m2)
Ceiling: 13mm P'Board = (20kg/m2)

Version 2.0 - April 2026	Single Span: Hyne Design - Table 2					
NP Frame LVL13	Roof Load Width (m)					
Single Span	**1.80**	**2.10**	**2.40**	**3.00**	**4.00**	**5.00**
2/150 x 45	2700	2600	2500	2300	2100	1900
2/200 x 45	3500	3400	3300	3100	2800	2600
2/240 x 45	4100	3900	3800	3600	3300	3100*
2/300 x 45	4800	4600	4500	4200	3900*	3700*
2/360 x 45	5500	5300	5100	4800	4500*	4200*
2/400 x 45	5900	5700	5500	5200*	4900*	4600*
2/460 x 45	6500	6300	6100*	5800*	5400*	5100*
2/610 x 45	8000*	7800*	7500*	7100*	6600*	6300*

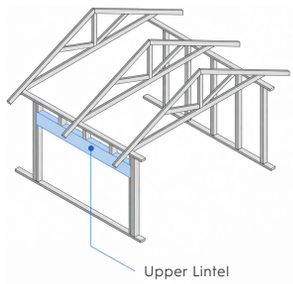
Table values relate to Allowable Maximum Span in mm

* Denotes member must have 2 Jack Studs at each supporting end

Lintels are not designed for wind-face loading

Spans have been derived from Hyne Design Software. If you require additional span details or alternative configurations/solutions, please refer to the **Hyne Design Software** for comprehensive structural timber design information: https://www.nelsonpine.co.nz/product/lvl-design-tool-hyne/

NelsonPine LVL11: Span tables/charts



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BASIC LOADING DATA

Wind Area = Very High
Snow Load, SG = 0.9kPa

Wind Design Strength Pressure = 1.5 kPa
Wind Serviceability Pressure = 1.1 kPa
Min. End Bearing Length = 35 mm
Service Class = Internal Protected

Uplift Fixings	
FIXING	CAPACITY
F	4.0 kN
G	7.5 kN
H	13.5 kN
SED	18.0 kN

TABLE 1: LIGHT SHEET ROOF - WITH CEILING - 40KG/M2

Roofing: Sheet (20kg/m2)
Ceiling: 13mm P'Board = (20kg/m2)

Version 2.0 - April 2026	Single Span: Hyne Design - Table 1					
NP Frame LVL11	Roof Load Width (m)					
Single Span	1.80	2.10	2.40	3.00	4.00	5.00
2/90 x 45	1900	1800	1700	1600	1400	1300
2/140 x 45	3000	2800	2700	2500	2200	2100
2/150 x 45	3200	3100	2900	2700	2400	2200
2/190 x 45	3900	3700	3600	3400	3100	2800
2/200 x 45	4000	3900	3800	3500	3200	3000
2/240 x 45	4600	4500	4300	4100	3800	3500
2/300 x 45	5400	5200	5100	4800	4400	4200
2/360 x 45	6200	6000	5800	5500	5100	4800*
2/400 x 45	6700	6400	6200	5900	5500*	5200*
2/460 x 45	7400	7100	6900	6500	6100*	5700*
2/610 x 45	8900	8700	8400	8000*	7500*	7000*

Table values relate to Allowable Maximum Span in mm

TABLE 2: HEAVY TILE ROOF - WITH CEILING - 90KG/M2

Roofing: Terracotta Tiles (70kg/m2)
Ceiling: 13mm P'Board = (20kg/m2)

Version 2.0 - April 2026	Single Span: Hyne Design - Table 2					
NP Frame LVL11	Roof Load Width (m)					
Single Span	1.80	2.10	2.40	3.00	4.00	5.00
2/90 x 45	1500	1400	1400	1300	1100	1000
2/140 x 45	2400	2300	2200	2000	1800	1700
2/150 x 45	2600	2400	2300	2200	1900	1800
2/190 x 45	3200	3100	3000	2700	2500	2300
2/200 x 45	3400	3200	3100	2900	2600	2400
2/240 x 45	3900	3700	3600	3400	3100	2900
2/300 x 45	4600	4400	4300	4000	3700	3500*
2/360 x 45	5200	5000	4900	4600	4300*	4000*
2/400 x 45	5700	5400	5300	5000*	4600*	4400*
2/460 x 45	6300	6000	5800	5500*	5100*	4900*
2/610 x 45	7700*	7400*	7200*	6800*	6400*	6000*

Table values relate to Allowable Maximum Span in mm

* Denotes member must have 2 Jack Studs at each supporting end
Lintels are not designed for wind-face loading

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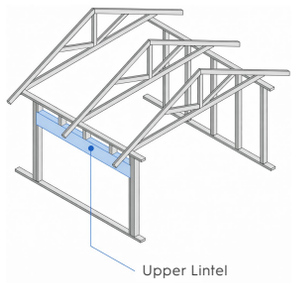
NelsonPine LVL8: Span tables/charts



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BASIC LOADING DATA

Wind Area = Very High
Snow Load, SG = 0.9kPa

Wind Design Strength Pressure = 1.5 kPa
Wind Serviceability Pressure = 1.1 kPa
Min. End Bearing Length = 35 mm
Service Class = Internal Protected

Uplift Fixings	
FIXING	**CAPACITY**
F	4.0 kN
G	7.5 kN
H	13.5 kN
SED	18.0 kN

TABLE 1: LIGHT SHEET ROOF - WITH CEILING - 40KG/M2

Roofing: Sheet (20kg/m2)
Ceiling: 13mm P'Board = (20kg/m2)

Version 2.0 - April 2026	Single Span: Hyne Design - Table 1					
NP Frame LVL8	Roof Load Width (m)					
Single Span	**1.80**	**2.10**	**2.40**	**3.00**	**4.00**	**5.00**
2/90 x 45	1700	1600	1500	1400	1300	1200
2/140 x 45	2700	2500	2400	2200	2000	1900
2/190 x 45	3600	3500	3300	3100	2700	2500
2/240 x 45	4300	4100	4000	3800	3500	3200
2/290 x 45	4900	4700	4600	4300	4000	3700*
2/300 x 45	5000	4800	4700	4400	4100	3800*

Table values relate to Allowable Maximum Span in mm

TABLE 2: HEAVY TILE ROOF - WITH CEILING - 90KG/M2

Roofing: Terracotta Tiles (70kg/m2)
Ceiling: 13mm P'Board = (20kg/m2)

Version 2.0 - April 2026	Single Span: Hyne Design - Table 2					
NP Frame LVL8	Roof Load Width (m)					
Single Span	**1.80**	**2.10**	**2.40**	**3.00**	**4.00**	**5.00**
2/90 x 45	1400	1300	1200	1100	1000	900
2/140 x 45	2200	2000	1900	1800	1600	1500
2/190 x 45	2900	2800	2700	2500	2200	2000
2/240 x 45	3600	3400	3300	3100	2800	2600
2/290 x 45	4100	4000	3800	3600	3400	3200*
2/300 x 45	4200	4100	3900	3700	3400	3200*

Table values relate to Allowable Maximum Span in mm

* Denotes member must have 2 Jack Studs at each supporting end
Lintels are not designed for wind-face loading

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