SPAN TABLE
Industrial Flooring

Dead Load = 0.3kPa Maximum Deflection = Span/250

Industrial Flooring		Maximum Allowable Span - Simply Supported							
Load	Spacing (mm)	HJ150	HJ200	HJ250	HJ300	HB300	HB350	HB400	HB450
Live Load 3.0kPa	450	3.4	4.2	4.6	5.6	6.6	7.4	8.1	8.8
	600	2.9	3.6	4.0	4.7	6.1	6.7	7.3	7.0
Live Load 5.0kPa	450	3.1	3.8	4.5	5.1	5.8	6.5	7.1	8.0
	600	2.8	3.5	4.0	4.6	5.2	6.0	6.5	7.2

SPAN TABLE
Commercial Flooring

Dead Load = 0.3kPa Maximum Deflection = Span/500

Commercial Flooring		Maximum Allowable Span - Simply Supported							
Load	Spacing (mm)	HJ150	HJ200	HJ250	HJ300	HB300	HB350	HB400	HB450
Live Load 3.0kPa	450	-	3.3	3.9	4.5	5.0	5.7	6.3	6.8
	600	-	3.0	3.5	4.0	4.6	5.1	5.7	6.2
Live Load 5.0kPa	450	-	2.8	3.4	3.8	4.3	4.8	5.4	5.9
	600	-	2.6	3.0	3.4	3.9	4.4	4.9	5.4

SPAN TABLE
Domestic Flooring

Dead Load = 0.25kPa Maximum Deflection = Span/500

Domestic Flooring		Maximum Allowable Span							
Load	Spacing (mm)	HJ150	HJ200	HJ250	HJ300	HB300	HB350	HB400	HB450
Live Load 1.5kPa	450	3.5	4.2	4.8	5.5	6.5	7.3	8.0	8.7
	600	3.2	3.8	4.3	5.0	6.0	6.6	7.2	7.9
Live Load 2.0kPa	450	3.1	3.8	4.5	5.1	5.8	6.5	7.2	8.0
	600	2.8	3.5	4.0	4.6	5.2	6.0	6.5	7.2

SPAN TABLE
Domestic Flooring

Dead Load = 0.25kPa Maximum Deflection = Span/500

Domestic Bearer Span Table	Maximum Allowable Span				
Live Load 1.5kPa	Load Width = Add the joist spans on both sides of the bearer then divide by 2				
Load Width	HJ150	HJ200	HJ250	HJ300	HB300
1800	2400	2900	3500	4000	4500
2400	2200	2700	3200	3600	4100
3000	2000	2500	2900	3200	3800
3600	1900	2300	2600	3000	3500
4200	1800	2100	2400	2800	3300
4800	1700	2000	2300	2600	3200
5400	1600	1900	2100	2400	3100
6000	1500	1800	2000	2200	3000

Hopleys Open Web Steel Joists are a range of lightweight, fully steel joists which can be used in a variety of applications.

"Their open web design permits ready access for all pass through services such as pipes and cables."

Termite proof
Corrosion resistant
Can be trimmed on site
Cost competitive
Uniform sizes & widths
Large joist spans allow wider bearer spacing and less columns
All steel
No shrinking & warping
Environmentally friendly
Light weight & easy to handle

HOPLEYS
OPEN WEB STEEL JOIST

Hunt Engineering & Staff
8 Redwood Drive,
Dingley Victoria 3172

Telephone 9551 3077
Facsimile 9551 2120

enquiries@hunteng.com.au
www.huntengineering.com.au

SPAN TABLE

Roofing

Dead Load = 0.25kPa Maximum Deflection = Span/500

Span	Maximum Allowable Spacing, Simply Supported					
Metres	HJ150	HJ200	HJ250	HJ300	HB350	HB450
3.5	3600					
4.0	2700	4200				
4.5	2100	3300	3600			
5.0	1700	2600	3300	3600		
6.0	1200	1800	2300	3000		
7.0	900	1300	1700	2400	7000	
8.0	650	1000	1300	1800	5600	7000
9.0		800	1000	1200	4400	5800
10.0			800	1100	3400	4700
11.0				900	2500	3900
12.0					1800	3200

Live Load 0.25kPa
Dead Load 0.13kPa

Maximum Deflection
Span / 180

This table may also be used for wind uplift to a maximum of 0.4kPa with suitable lateral restraints. Where wind load governs, ie., in excess of 0.4kPa, the span shall be reduced. No provision has been made for the 1.3kN concentrated load. Where joist ends have rigid connections or are over multiple supports the spans may be increased. Consult you/our engineer for details.

Section Properties

JOIST TYPE	CHORD AREA	JOIST MASS	RADIUS OF GYRATION	MOMENT OF INERTIA
HJ150	288mm^2	2.7kg/m	r_{yy}=20mm	Ixx = 1.52 x 10^{6}mm^4
HJ200	288mm^2	2.89kg/m	r_{yy}=20mm	Ixx = 2.82 x 10^{6}mm^4
HJ250	288mm^2	3.04kg/m	r_{yy}=20mm	Ixx = 4.52 x 10^{6}mm^4
HJ300	288mm^2	3.11kg/m	r_{yy}=20mm	Ixx = 6.62 x 10^{6}mm^4
HB300	606mm^2	6.00kg/m	r_{yy}=19.6mm	Ixx = 9.70 x 10^{6}mm^4
HB350	606mm^2	6.10kg/m	r_{yy}=19.6mm	Ixx = 13.9 x 10^{6}mm^4
HB400	606mm^2	6.20kg/m	r_{yy}=19.6mm	Ixx = 18.9 x 10^{6}mm^4
HB450	606mm^2	6.30kg/m	r_{yy}=19.6mm	Ixx = 24.5 x 10^{6}mm^4

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