

Multinail SteelWood® Webs



SteelWood® Webs are a uniquely designed, high strength connector that combines the versatility of timber with the strength of steel to produce fully engineered floor and roofing systems.

Benefits of SteelWood® Webs

Manufactured from prime quality galvanised steel, Multinail SteelWood® Webs have been developed to provide a made to order system that delivers the ultimate in design flexibility.

- Customised and engineered for each project by Multinail licensed fabricators
- Lightweight system for fast and efficient installation
- Provides long span capability up to 10 metres
- Capacity to withstand high loads
- Open web design simplifies installation of services
- Available in both left hand and right-hand profiles
- Made in Australia

Maximum clearance between webs

SteelWood® Joists are designed to allow the easy accommodation of electrical, plumbing, waste water and air conditioning services with no cutting on site.

Maximum clearance between the webs is as shown in Table 1.

Figure 1

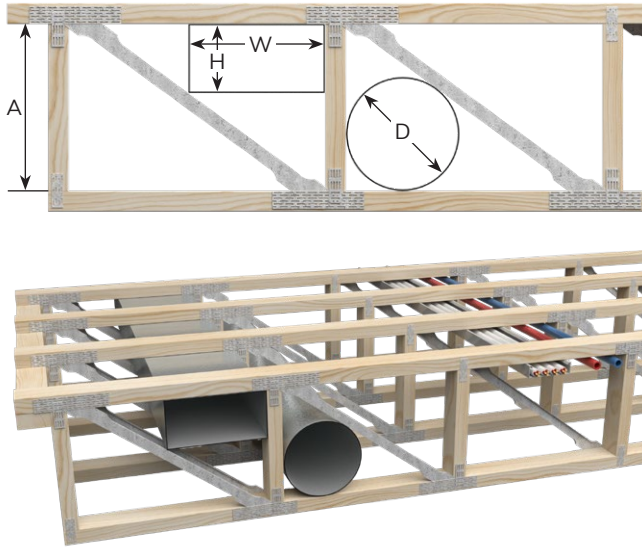


Table 1: Clearance for Service Penetrations

	SWJ 250	SWJ 300	SWJ 350	SWJ 360	SWJ 400
A (mm)	160	210	260	270	323
D (mm)	125	165	200	214	245
H (mm)	W (mm)				
50	225	325	410	442	525
100	130	240	320	348	430
150	45	140	230	254	335
200	N/A	45	130	160	245
250	N/A	N/A	N/A	66	155
300	N/A	N/A	N/A	N/A	65

Notes:

1. Timber chords of the SteelWood® Joist must not be cut, notched or drilled in any way without engineering approval.
2. SteelWood® metal webs of the SteelWood® Joist must not be drilled, bent or removed in any way without engineering approval.

Indicative Span Table -SteelWood® Joist

Table 2: Maximum spans for Residential Floor Live Loads (1.5kPa/1.8kN)

Maximum Span (mm) - 1.5kPa/1.8kN				
SteelWood® Joist size	Overall depth (mm)	Timber size (MGP10)	450 centres	600 centres
SWJ300-35	300	35 x 90	6000	5000
SWJ300-45	300	45 x 90	6400	5400
SWJ350-45	350	45 x 90	6200	5800
SWJ360-45	300	45 x 90	6400	6000
SWJ400-45	413	45 x 90	6600	6400
SWJ460-45	458	45 x 90	7800	7000
SWJ560-45	560	45 x 90	8600	7800
SWJ660-45	662	45 x 90	9400	8200

Table 3: Maximum spans for Commercial Floor Live Loads (3.0kPa/2.7kN)

Maximum Span (mm) - 3.0kPa/2.7kN				
SteelWood® Joist size	Overall depth (mm)	Timber size (MGP12)	450 centres	600 centres
SWJ300-45	300	45 x 90	4600	3400
SWJ350-45	350	45 x 90	4800	4200
SWJ360-45	360	45 x 90	5000	4400
SWJ400-45	413	45 x 90	5600	4600
SWJ460-45	458	45 x 90	5800	4600
SWJ560-45	560	45 x 90	6400	5600
SWJ660-45	662	45 x 90	6800	6000

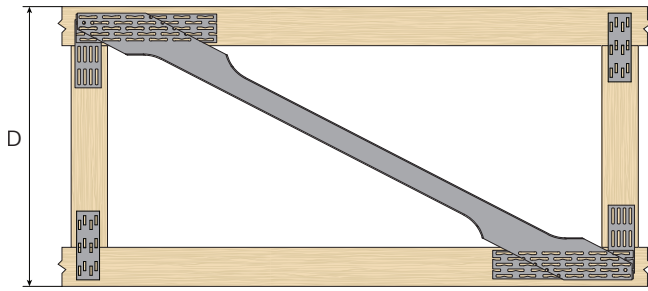
SteelWood® Joist can be produced with 35mm or 45mm top chords and bottom chords. Loads as high as 5kPa, and 7.5 kPa can be designed as required.

Note:

Spans and depths can vary depending on the size and grade of the timber chords selected. As the live loads increase over 3kPa need the thickness and grade of timber flooring panels will also increase.

Technical Specifications

Steel G300 Steel, Z275, 1mm Thickness

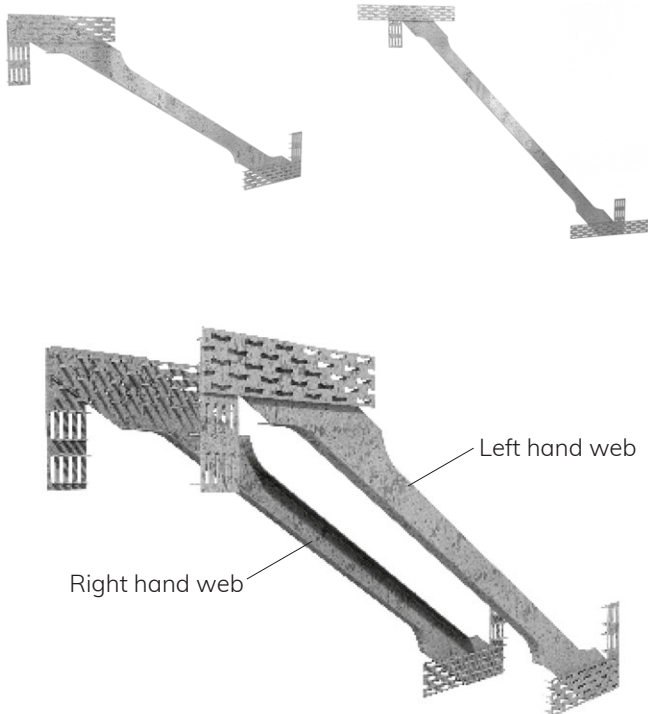


L Shape

Used for 200mm to 400mm Joist

T Shape

Used for 460mm to 660mm Joist



Description and Packing

Product Code	Description D	Carton Qty	Carton kg.
--------------	------------------	------------	------------

L-Shape - Nominal Depth (D) - 35mm Chords[†]

SWW-250-35	Webs 250 x 35mm	20	6.0
SWW-250-35LP	Webs 250 x 35mm	500	150.0
SWW-300-35	Webs 300 x 35mm	20	8.2
SWW-300-35LP	Webs 300 x 35mm	500	205.0
SWW-350-35	Webs 350 x 35mm	20	9.2
SWW-350-35LP	Webs 350 x 35mm	500	230.0
SWW-360-35	Webs 360 x 35mm	20	8.7
SWW-360-35LP	Webs 360 x 35mm	500	217.5
SWW-400-35	Webs 400 x 35mm	20	10.4
SWW-400-35LP	Webs 400 x 35mm	500	260.0

Product Code	Description D	Carton Qty	Carton kg.
--------------	------------------	------------	------------

L-Shape - Nominal Depth (D) - 45mm Chords^{*}

SWW-200-45	Webs 200 x 45mm	20	5.2
SWW-200-45LP	Webs 200 x 45mm	500	130.0
SWW-250-45	Webs 250 x 45mm	20	5.6
SWW-250-45LP	Webs 250 x 45mm	500	140.0
SWW-300-45	Webs 300 x 45mm	20	7.8
SWW-300-45LP	Webs 300 x 45mm	500	195.0
SWW-350-45	Webs 350 x 45mm	20	8.8
SWW-350-45LP	Webs 350 x 45mm	500	220.0
SWW-360-45	Webs 360 x 45mm	20	9.1
SWW-360-45LP	Webs 360 x 45mm	500	226.0
SWW-400-45	Webs 400 x 45mm	20	10.0
SWW-400-45LP	Webs 400 x 45mm	500	250.0

T-Shape Nominal Depth (D) - 45mm Chords^{*}

SWW-460-45	Webs 460 x 45mm	20	10.4
SWW-460-45LP	Webs 460 x 45mm	500	260.0
SWW-560-45	Webs 560 x 45mm	20	11.2
SWW-560-45LP	Webs 560 x 45mm	500	280.0
SWW-660-45	Webs 660 x 45mm	20	11.4
SWW-660-45LP	Webs 660 x 45mm	500	285.0

[†] The overall depth of SteelWood® Joist (size) is calculated assuming 35mm top and bottom chord.

^{*} The overall depth of SteelWood® Joist (size) is calculated assuming 45mm top and bottom chord.



Personalised. Local. Progressive.

Multinail Australia Pty. Ltd.

155 Burnside Road, Stapylton

QLD 4207, Australia

Phone: +61 (0)7 3297 3250

Email: enquiry@multinail.com

www.multinail.com.au