



Prolam® I-Joists

Prolam I-Joists are manufactured from Ultra High strength Douglas Fir LVL flanges, and Orientated Strand board webs. The flanges are made up from ultrasonically graded LVL, bonded with exterior adhesive for more load bearing capacity. The webs being Orientated Strand Board (OSB) are known for their superior strength and consistent performance. I-Joists resist shrinking, twisting, warping and splitting for a squeak resistant floor and quality roofs and ceilings.

Advantages

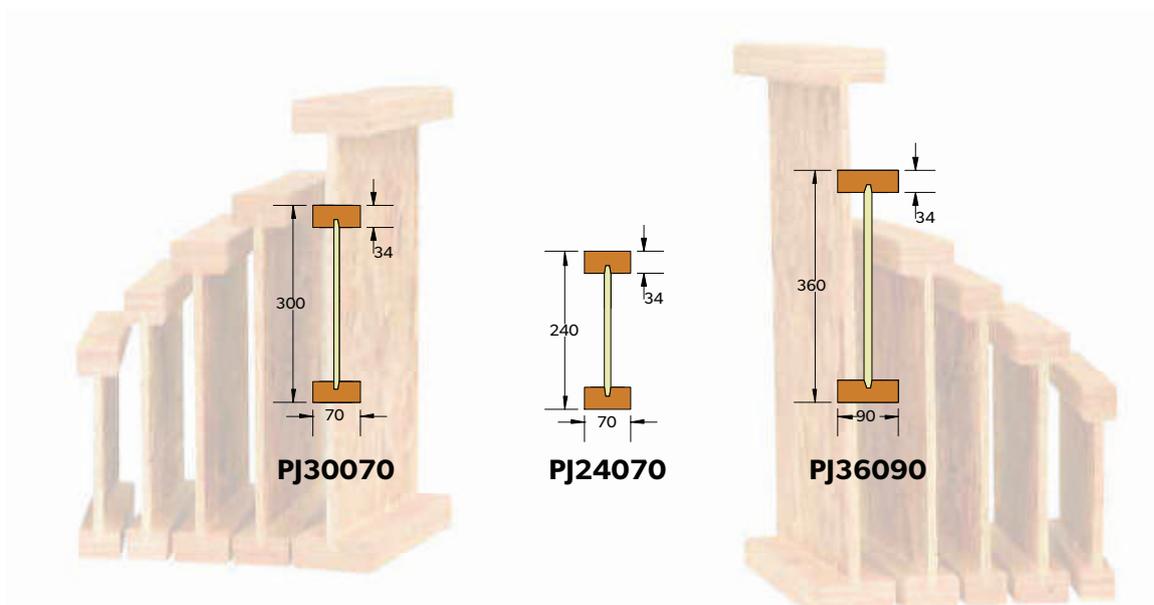
Holes may be easily cut in the web, allowing ducts and utilities to be run through the joists. Prepunched 40mm knockout holes are provided in the web for small diameter services or wiring.

Quality

I-Joists are manufactured by Pacific Woodtech Corporation to the ASTM D 5055 standard for monitoring the structural capacities of prefabricated wood I Joists.

Treatment

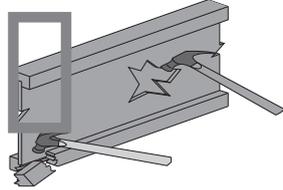
I-Joists can be supplied untreated, or treated in accordance with the Prolam LVL preservation treatment standard 20 June 2017 to meet the durability requirements where hazard class H1.2 or less applies.



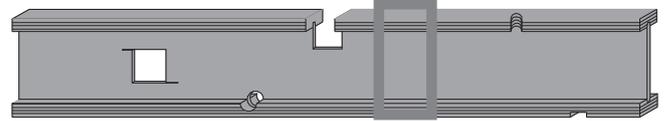
Prolam[®]

I-joists Hole Charts

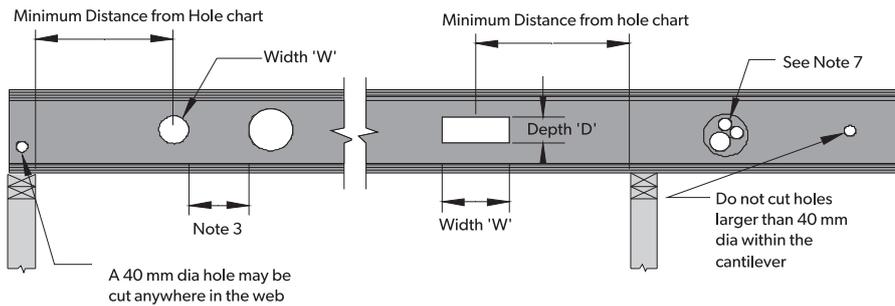
DON'T
make holes with hammer other than pre-punched knockouts



DON'T
hammer on flanges and damage joint



DO NOT cut or notch flanges
DO NOT over cut holes in web



Note: The most accurate method to design the allowable web penetration size and distance from support for Prolam I-joists is to use the Prolam online software. The table below will give conservative results in some instances.

Joist Code	Joist span (mm)	Joist spacing (mm)	Circular Holes								Re ctangular Holes			
			Hole Diameter/Square Hole Width (mm)								Depth x Width (mm)			
			75	100	125	150	175	200	225	250	125x150	150x300	175x350	200x400
Minimum distance from any support to the centre of the hole (mm)														
PJ20058	3000	600	300	400	-	-	-	-	-	-	-	-	-	
	3500	600	300	700	-	-	-	-	-	-	-	-	-	
PJ24070	3500	600	300	300	300	1100	-	-	-	-	1450	1750	-	-
	4000	600	300	300	300	1400	-	-	-	-	1800	2000	-	-
	4500	600	300	300	600	1600	-	-	-	-	2250	2250	-	-
PJ24090	4000	600	300	300	300	1300	-	-	-	-	1650	1900	-	-
	4500	600	300	300	300	1550	-	-	-	-	1950	2250	-	-
	4700	600	300	300	400	1600	-	-	-	-	2150	2350	-	-
SJ30070	4500	600	300	300	300	300	450	1400	-	-	1550	2100	2200	2250
	5000	600	300	300	300	300	700	1650	-	-	2000	2400	2500	2500
SJ30090	5000	600	300	300	300	300	400	1500	-	-	1600	2350	2400	2450
	5300	600	300	300	300	350	600	1650	-	-	1850	2500	2600	2650
SJ36090	5500	600	300	300	300	300	300	300	700	1600	400	1950	2450	2650
	5800	600	300	300	300	300	300	300	850	1750	700	2150	2650	-

Notes:

- The hole chart is generated on a maximum floor dead load of 40 kg/m with no wall or roof loads. It therefore does not apply for joists supporting either parallel or perpendicular load bearing walls.
- Hole locations are suitable for joist spacings up to 600 mm centres. Holes may be permitted closer to supports for some member when spacings of 450 or 300 mm are used.
- The clear distance between holes must equal or exceed twice the diameter of the largest hole, or twice the longest side of a rectangular hole and no more than 3 holes in excess of 75 mm are allowed in any span.
- Do not cut or damage flanges under any circumstances.
- Except as noted in 1 and 2 above, a 40 mm hole at a minimum of 450 mm centres is allowed to be drilled anywhere in the web EXCEPT in cantilevered spans.
- If possible, holes in web should be positioned mid height, minimum edge clearance from any flange is 6 mm.
- A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.