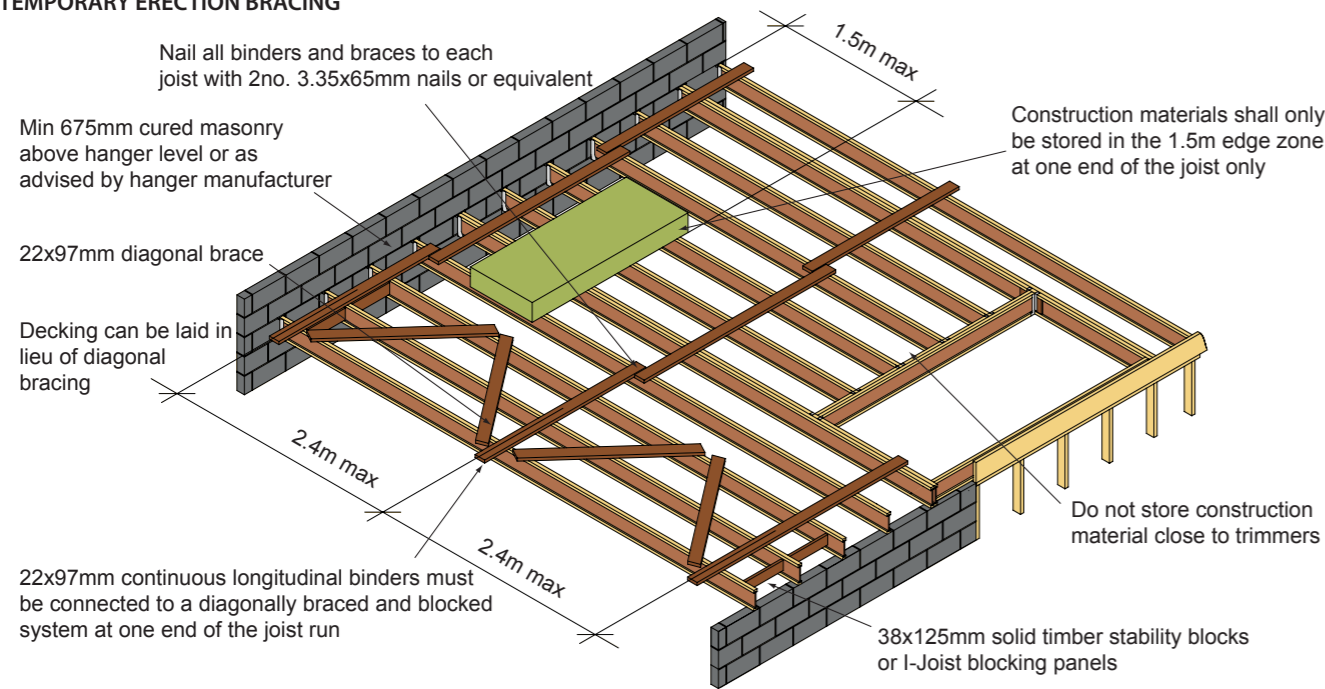


Installation Guidelines

TEMPORARY ERECTION BRACING



STABILITY BLOCKING NOTES

- Use timber blocks or JJI-Joist blocking pieces
- Solid timber stability blocks to be minimum 38x125mm cut squarely and accurately to maintain joist spacing. Fasten with minimum 2 no. 3.35x65mm nails or equivalent
- Stability blocks need to be fixed to a minimum of 3 joists and cover a minimum distance of 1200mm
- Timber blocks in the diagonally braced system are required in each run of joists and at cantilever supports
- When joists butt on an interior support, block both sets of joists
- Additional braced and blocked systems should be provided at 12m spacing in long joist runs

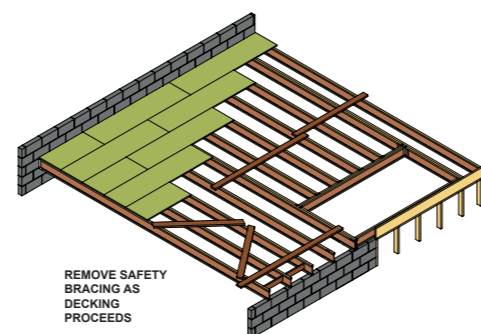
TEMPORARY ERECTION BRACING NOTES

The builder is responsible for identifying and minimising the risks involved in erecting JJI-Joists to ensure that the health and safety of all workers is maintained. Builders should be aware of the health and safety responsibilities imposed on them by the Construction (Design and Management) Regulations 2015. Proper erection procedures and bracing are vital to the safe construction of JJI-Joists floors. The following notes may assist builders in preparing a safety assessment.

1. Do not allow workers to walk on unbraced joists
2. Do not store building materials on unbraced joists
3. JJI-Joists should be erected straight and vertical. The maximum deviation from horizontal should not exceed 10mm and the maximum deviation from the vertical should not exceed 2mm
4. JJI-Joists are unstable until fully braced. Bracing includes: longitudinal binders, diagonal bracing, stability blocking, rim joist/rim boards
5. All longitudinal binders, diagonal braces, stability blocks, and hangers should be completely installed and fully nailed as detailed
6. Lateral strength should be provided by a diagonally braced and blocked system across at least 3 joists as shown in the temporary erection bracing diagram (above). Additional braced and blocking systems should be provided at 12m spacing in long joist runs

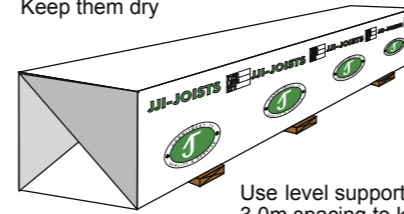
7. Once a JJI-Joist floor has been fully braced, construction materials may be placed on the floor provided that the overall weight of material to be placed on a single joist does not exceed 250kg (200kg for 195mm deep joists). To ensure that the weight is distributed in a safe manner we recommend that timber bearers (perpendicular to joist run) or a standard pallet (1200x1200) are placed under the construction materials. Bearers must extend over at least 2 joists. Refer to Technical Bulletin 47
8. Flooring should be fully fixed to the JJI-Joists before additional loads are placed on the floor
9. The ends of cantilevers should be stabilised with longitudinal binders fixed to the top and bottom flanges
10. Temporary bracing may be progressively removed as decking is fixed

ATTENTION THE FOLLOWING CONDITIONS ARE NOT ALLOWED



JJI-Joists Site Storage

Protect Joists from the elements
Keep them dry



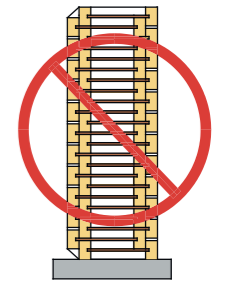
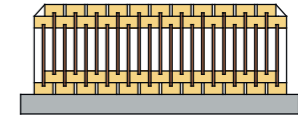
Use level supports at about 3.0m spacing to keep Joists clean and above the ground

Use suitable lifting equipment to offload Joist bundles



Transport Joists on edge, not flat

Store Joists on edge



DO NOT store Joists flat

Service Holes in JJI-Joists

Joist Depth [mm]	Joist Span [mm]	Hole Size [mm] "D" depth/diameter							
		50	75	100	125	150	175	200	
		● + ■	● + ■	● + ■	● + ■	● + ■	● + ■	● + ■	● + ■

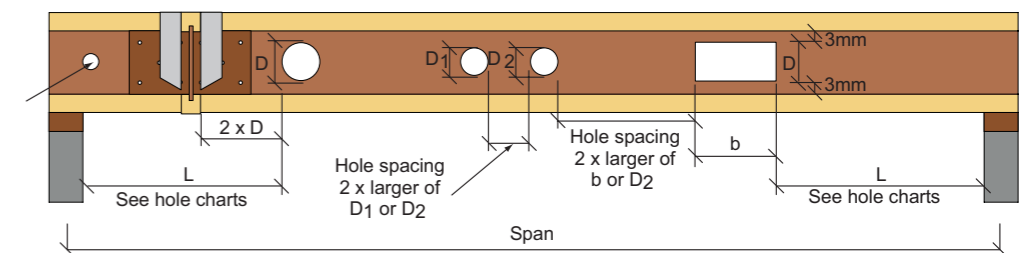
The maximum size of a service hole that can be cut in the web of a JJI-Joist at a particular location depends on the specific load configuration on the joist. Because of this it is not possible to provide general rules that apply to all cases. The table below gives the minimum required distance, L (mm), from inside face of support to nearest edge of hole for uniformly loaded, simply supported joists under standard domestic loading of 0.75kN/m² dead load and 1.5kN/m² imposed load at up to 600mm centres. Where this is not the case please contact your Distributor for advice.

195	2500	300	300	300	300	300	300	300	300		
	3000	300	300	300	300	300	300	330			
	3500	300	300	300	300	300	300	580			
	4000	300	329	450	539	548	830				
	4343	321	500	622	710	719	1002				
220	3000	300	300	300	300	300	300	300	300	427	
	3500	300	300	300	309	348	419	419	677		
	4000	300	300	379	559	598	669	669	927		
	4500	300	454	629	809	848	919	919	1177		
	4675	319	541	717	896	935	1006	1006	1265		
235	3000	300	300	300	300	300	300	300	300	474	
	3500	300	300	300	300	323	455	455	724		
	4000	300	300	300	518	573	705	705	974		
	4500	300	349	547	768	823	955	955	1224		
	4855	300	526	725	946	1000	1132	1132	1402		
245	3000	300	300	300	300	300	300	300	502	300	502
	3500	300	300	300	300	300	458	458	752	513	752
	4000	300	300	300	476	539	708	708	1002	763	1002
	4500	300	300	481	726	789	958	958	1252	1013	1252
	4970	300	504	716	961	1024	1193	1193	1487	1248	1487
300	3500	300	300	300	300	300	300	300	526	487	646
	4000	300	300	300	300	300	517	517	776	737	896
	4500	300	300	300	348	445	767	767	1026	987	1146
	5000	300	300	300	598	695	1017	1017	1276	1237	1396
	5577	300	300	551	886	984	1306	1306	1565	1525	1685
										1652	1912
										1701	1912

1. Where more than one hole is to be cut, the minimum spacing between holes must be 2 times the width of the largest hole
2. The rectangular hole width b should not exceed 1.5 x times the height D
3. Cut all holes carefully. Do not over-cut and do not cut the flanges
4. Where holes are required in the rim and header joists of timber frame construction refer to James Jones & Sons Ltd
5. Plastic plumbing is ideal for use with JJI-Joists. Where copper plumbing is to be used, careful consideration of the sequence of pipe installation will be required
6. The bearing support length used for this table is 100mm
7. Joist span refers to engineering span

- Circular Holes
- Square Holes
- Rectangular Holes

A 35mm hole may be drilled anywhere on the centre line of the web material provided there is a minimum of 35mm (18mm) from the edge of the hole to the end of the joist and it is not directly over a support



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