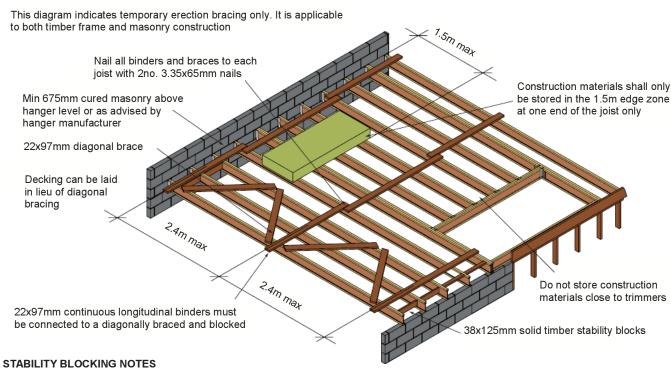
INSTALLATION GUIDELINES



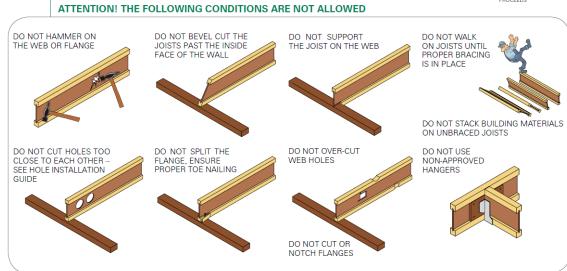
- · Use timber blocks or JJI-Joist blocking pieces
- Timber blocks to be minimum 38x125mm cut squarely and accurately to maintain joist spacing. Fasten with minimum 2 no. 3.35x65mm nails
- Stability blocks need to be fixed to 3 joists and cover a minimum distance of 1200mm
- Timber blocks in the diagonally braced systems 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 2007. 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.

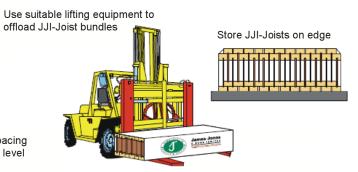
- 1. Do not allow workers to walk on unbraced joists
- 2. Do not store building materials on unbraced joists
- 3. JJI-Joists should be erected straight and vertical. The maximum deviation from horizontal should not exceed 10mm and the maximum deviation from the vertical should not exceed 2mm
- 4. JJI-Joists are unstable until fully braced. Bracing includes: longitudinal binders, diagonal bracing, stability blocking, rim joist/rim
- 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 9. The ends of cantilevers should be blocked system across at least 3 joists as shown in the Erection Bracing Details (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.
- 8. Flooring should be fully fixed to the JJI-Joists before additional loads are placed on the floor
 - stabilised with longitudinal binders fixed to the top and bottom flanges





JJI-Joists Site Storage

Protect JJI-Joists from the elements Keep them dry Use supports at 3.0m spacing to keep JJI-Joists clean, level and above the ground



Transport JJI-Joists on edge, not flat

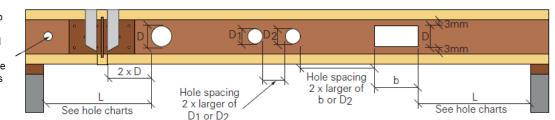


DO NOT store JJI-Joists flat

Service Holes in JJI-Joists

Joist Depth (mm)	Joist Span (mm)	Hole Size (mm)															
		50		75		100		125		150		175		200			
		0+□		0+□		0+□		0+□		0+[0+□		0+□			
145	2000	300	300														
	2500	387	300														
	3000	637	528							1.	O = Circular Holes, □ = Square Holes and □ = Rectangular Holes Where more than one hole is to be cut, the						
	3500	887	778														
	4000	1137	1028							2							
195	3000	300	300	300	300	300	401				minimum spacing between holes must be 2 times the width of the largest hole 3. The rectangular hole width b should not exceed 1.5 x times the height D 4. Cut all holes carefully. Do not over-cut and do not cut the flanges 5. Where holes are required in the rim and header joists of timber frame construction refer to James Jones & Sons Ltd 6. Plastic plumbing is ideal for use with JJI-Joists. Where copper plumbing is to be used, careful						
	3500	300	300	300	366	374	651			2							
	4000	300	405	527	616	624	901			٦							
	4500	477	655	777	866	874	1151			4							
	5000	727	905	1027	1116	1124	1401			46							
220	3500	300	300	300	383	422	493	493	745	5							
	4000	300	300	453	633	672	743	743	995								
	4500	305	528	703	883	922	993	993	1245	6							
	5000	555	778	953	1133	1172	1243	1243	1495	٥							
	5500	805	1028	1203	1383	1422	1493	1493	1745		consideration				arciui		
235	3500	300	300	300	341	395	528	528	792		installation						
	4000	300	300	370	591	645	778	778	1042								
	4500	300	421	620	841	895	1028	1028	1292				8				
	5000	430	671	870	1091	1145	1278	1278	1542								
	5500	680	921	1120	1341	1395	1528	1528	1792								
245	3500	300	300	300	300	361	530	530	819	585	819						
	4000	300	300	303	548	611	780	780	1069	835	1069						
	4500	300	341	553	798	861	1030	1030	1319	1085	1319						
	5000	339	591	803	1048	1111	1280	1280	1569	1335	1569						
	5500	589	841	1053	1298	1361	1530	1530	1819	1585	1819						
300	4000	300	300	300	300	300	586	586	845	805	965	932	1187	981	11		
	4500	300	300	300	416	514	836	836	1095	1055	1215	1182	1437	1231	14		
	5000	300	300	331	666	764	1086	1086	1345	1305	1465	1432	1687	1481	16		
	5500	300	321	581	916	1014	1336	1336	1595	1555	1715	1682	1937	1731	19		
	6000	300	571	831	1166	1264	1586	1586	1845	1805	1965	1932	2187	1981	21		

A 35mm hole (18mm for 145 deep joist) 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



Metalwork Suppliers



Cullen Building Products 1 Wheatstone Place, Southfield Industrial Estate Glenrothes, Fife, KY6 2SW Tel: 01592 771132 Fax: 01592 771182



Simpson Strong-Tie Winchester Road, Cardinal Point Tamworth, Staffordshire, B78 3HG Tel: 01827 255600 Fax: 01827255616





James Jones & Sons Ltd. Timber Systems Division JJI-Joist Site Construction Guide - Aug 2010 Ref: SAL04-20jm