STEICO MASONRY CONSTRUCTION GUIDE

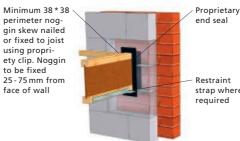
M1 Bearing onto blockwork cavity wall

All joists to have a minimum bearing of 90 mm. Ensure all bearings are flat, level and that the joists are vertical. Minimum 38 * 38 perimeter noggin skew nailed or fixed to joist using proprietry clip. noggin to be fixed 25-75 mm from face of wall

Web stiffeners fitted to end of joists. Junction between wall and ioists to be sealed with silicon , mastic. Restraint straps mav

be required for buildings over 2 storeys or where joists have less than 90 mm of bearing. Please consult hanger manufacturers literature for further information

M2a Bearing onto blockwork cavity wall using proprietary seal



Please refer to manufactureres details for full installation details and restraint strap requirements.

M2b Bearing onto blockwork cavity wall using

perimeter nog-

ain skew nailed

or fixed to ioist

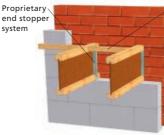
using propriety

clip. Noggin to

25 - 75 mm from

face of wall

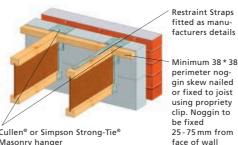
be fixed



Ensure all bearings are flat, level and that the joists are vertical. Please refer to manufacturers details for full installation details and restraint strap requirements.

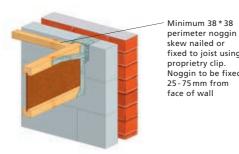
M3a Masonry Hanger

Masonry hanger



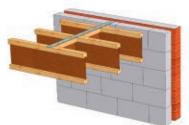
Restraint straps to be fitted at no more than 2 m centres or at spacing specified by the building designer.

M3b Restraint type hanger



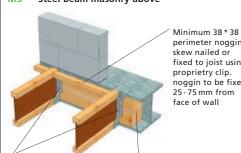
Refer to Manufacturers Technical Literature for specification and installation details

M4 Masonry wall restraint



Galvanised masonry restraint strap fixed to minimum 3 joists in accordance with manufacturers recommendations Blocking may be full depth I-joists or solid timber. Where solid timber is used ensure the size is a minimum of 38 mm. half the joist depth. Do not notch the flanges.

M5 Steel Beam masonry above



ace of wall

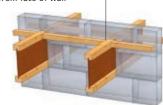
Masonry Hanger bedded in mortar joint. Refer to manufacturers details.

perimeter noggin skew nailed or fixed to joist using proprietry clip. nogain to be fixed 25 - 75 mm from

Timber packer to steel beam designers require-

Internal wall built around joists

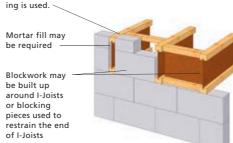
Minimum 38 * 38 perimeter noggin skew nailed or fixed to joist using proprietry clip. Noggin to be fixed 25-75 mm



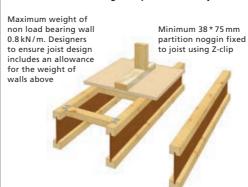
89 mm minimum bearing for continuous joists. Ensure discontinuous joists have a minimum of 45 mm bearing. Joists may be lapped for full bearing.

M7 Joists ending on internal wall

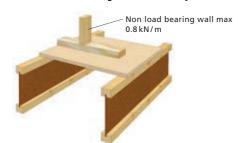
Minimum 38 * 38 perimeter noggin skew nailed or fixed to joist using proprietry clip. Noggin to be fixed 25-75 mm from face of wall. Noggin not required where I-Joist block-



G1 Non load bearing wall parallel to the joists

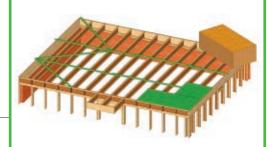


G2 Non load bearing wall across the joists



The designer is responsible for Sole plate of partition wall ensuring the I-Joist design is to be nailed to joists below adequate to support the wall See span tables.





I-Joists are unstable until fully braced

Do not walk on unbraced joists

as decking proceeds

Please refer to Temporary Bracing Guidelines

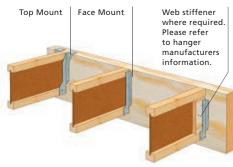
Do not store building materials on unbraced

Temporary bracing to be progressively removed

Flooring to be laid in accordance with Decking

Please refer to Safe Loading Guidelines

G3 Different hanger applications



G4 STEICOjoist to STEICOjoist connection



Install Backer blocks on both sides of STEICOioist Attach with 10 no. 3.75 * 75 nails, clenched where possible Backer block to 250 mm wide

Ensure block

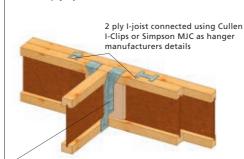
work does

not contact

the top of the

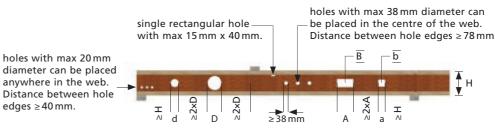
Install Backer blocks tight to top flange for top mount nangers and tight to bottom flange for face mount hangers Please refer to hanger manufacturers literature for alternative hanger options

G5a 2-ply I-joist connection



Backer blocks may be required. Backer blocks to be fitted as detail G4 or refer to hanger manufacturers details.

Access and service holes



Minimum distance in mm from inside face of any support to nearest edge of hole

Туре	Depth (mm)	Round Hole Size (mm) / Rectangular Hole Width (mm)*								
		50	75	100	120	140	160	180	200	
	200	200	200	560						
	220	220	220	420	720					
SJ 45	240	240	240	260	550	840				
	300	300	300	300	300	320	580	850	1120	
	360	360	360	360	360	360	360	360	590	
	200	200	350	740						
	220	220	220	580	880					
C1 C0	240	240	240	410	700	990				
SJ 60	300	300	300	300	300	500	760	1020	1290	
	360	360	360	360	360	360	360	550	800	
	400	400	400	400	400	400	400	400	500	
	200	200	560	940						
	220	220	420	790	1080					
C1 00	240	240	290	640	930	1210				

*Rectangular hole Height must be no greater than half the width

360

360

This table is for single span joists with a standard domestic floor load applied 0,75 kN/m² dead 1,5 kN/m² live. Maximal beam spacing: 600 mm / For service class 1 condition only. For other conditions please contact your STEICO engineered wood product distributor. All holes to be positioned in the centre of the web.

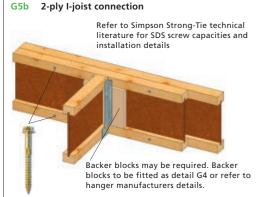
300 | 300 | 300 | 300 | 500 | 760 | 1020 | 1280 | 1540

400 | 400 | 400 | 400 | 400 | 400 | 400 | 590 | 830

360 | 360 | 370 | 620 | 860 | 1100



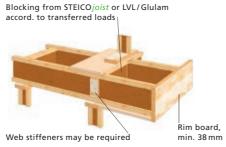
DO NOT Cut the flange **DO NOT** Notch the flange **DO NOT** Drill the flange



Backer Block & Web Stiffener table

		STEICOjoist								
	Depth	SJ45	SJ60	SJ90						
	200	19 * 115 mm	24 * 115 mm	38 * 115 mm						
	220	19 * 135 mm	24 * 135 mm	38 * 135 mm						
	240	19 * 155 mm	24 * 155 mm	38 * 155 mm						
	300	19 * 215 mm	24 * 215 mm	38 * 215 mm						
	360	19 * 275 mm	24 * 275 mm	38 * 275 mm						
l	400	19 * 315 mm	24 * 315 mm	38 * 315 mm						

TF11 Cantilever



Please make sure that external parts are protected

STEICO natural building products











