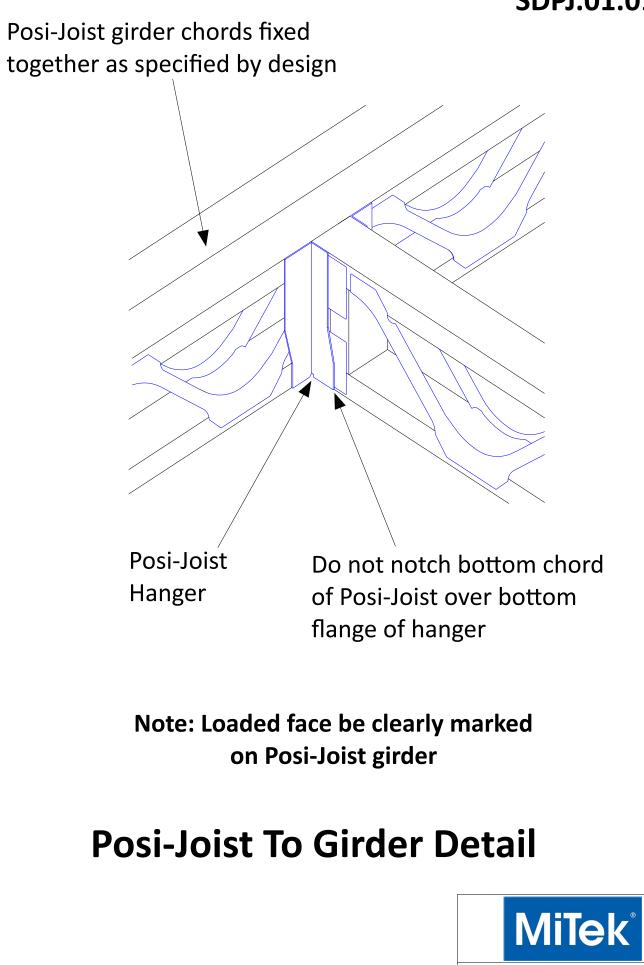
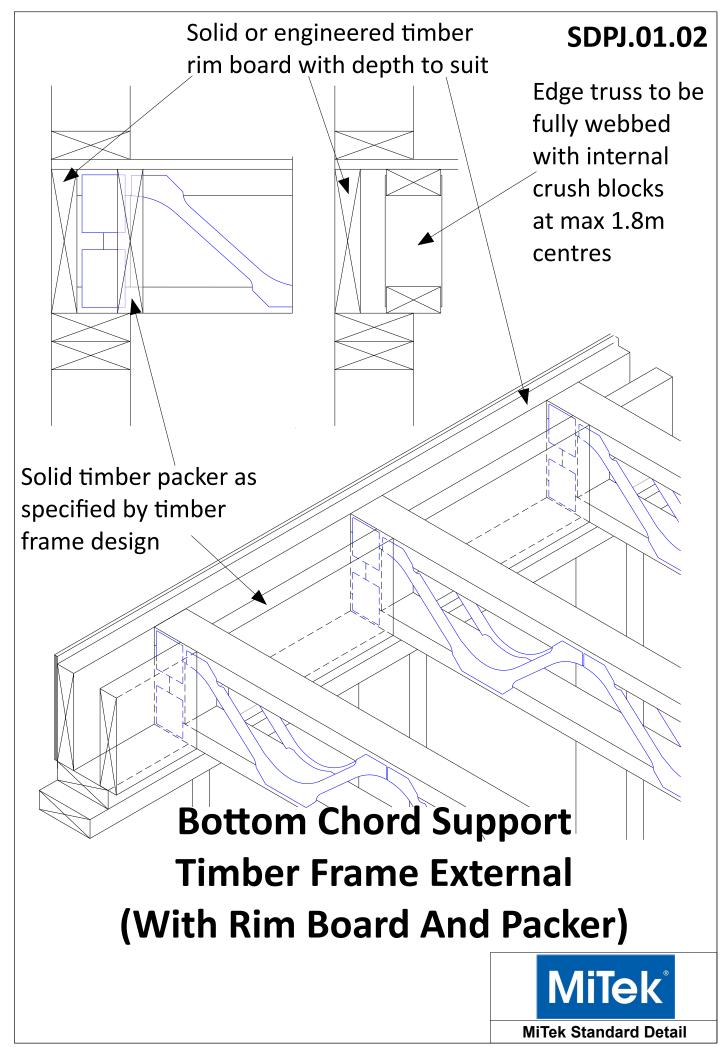
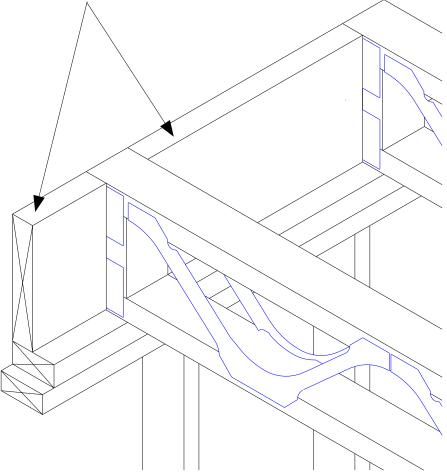
MiTek Standard Detail





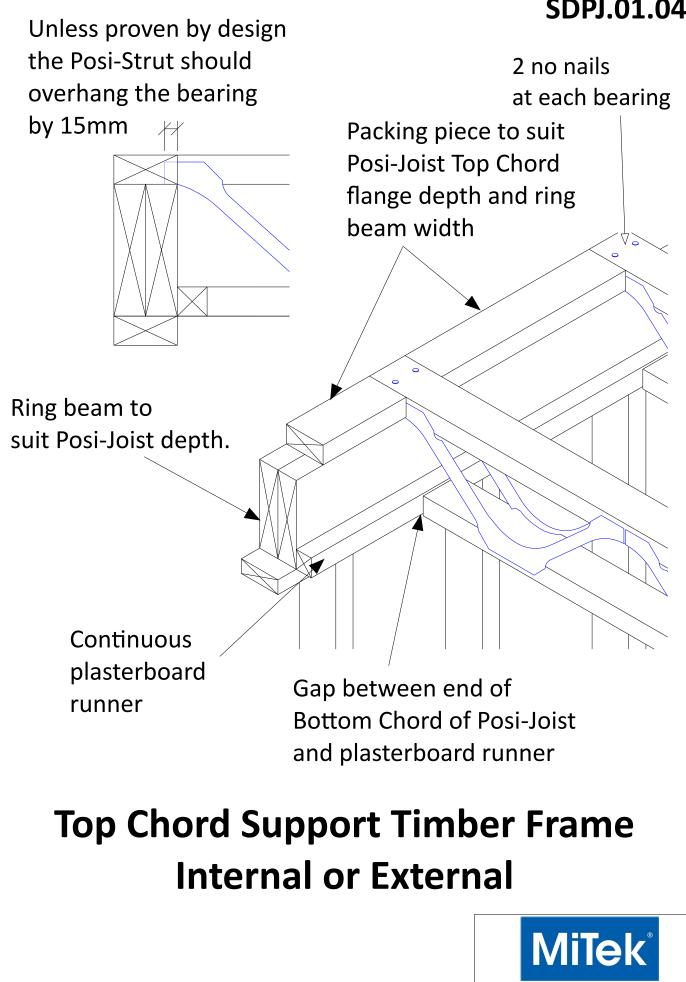
Full depth chord restraint blocking fixed between Posi-Joists



Bottom Chord Support Timber Frame (With Restraint Blocking)



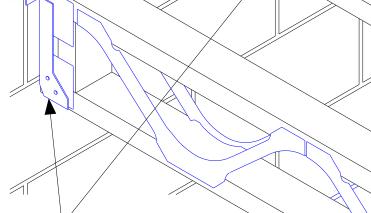
MiTek Standard Detail



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Noggin between Posi-Joists for decking perimiter support or top top restraint if hanger depth is less than 0.75 x posi depth

Parallel Restraint Straps with non-restraint hanger: Ground, 1st and 2nd Floor at max 2.0m centres and 3rd Floor at max 1.25m centres. 2nd Floor in Scotland at 1.25m centres

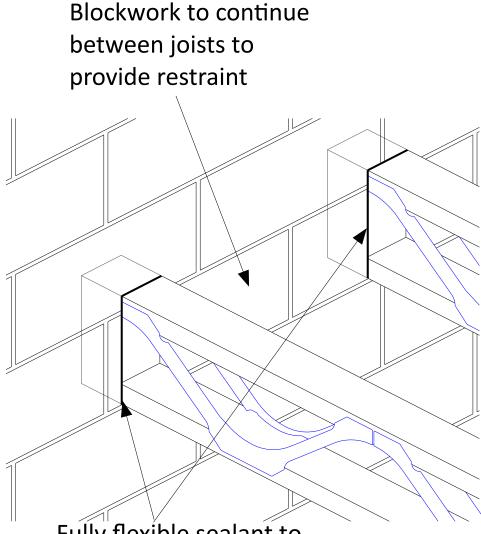


Masonry Joist Hanger. Do not notch bottom chord of Posi-Joist over bottom flange of hanger

Minimum bearing determined by design. Choose correct full depth hanger for coursework, load, bearing width and desired bearing level.

Bottom Chord Support Masonry Hanger with Noggin Restraint





Fully flexible sealant to provide air tightness

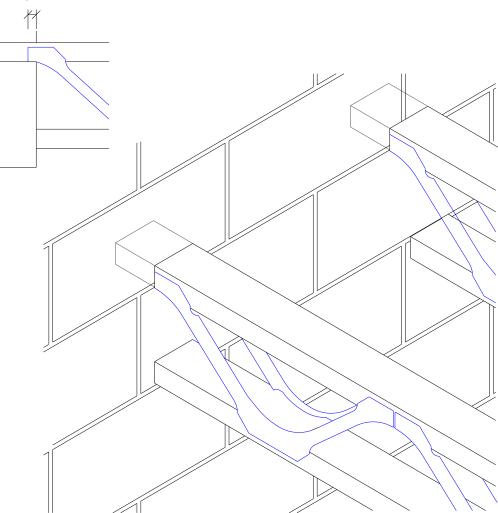
Note:

Plasterboard noggins omitted for clarity This detail is not allowed on single skin external walls

Bottom Chord Support Built into Masonry



Unless proven by design the Posi-Strut should overhang the bearing by 15mm



Note: Plasterboard noggins omitted for clarity

Top Chord Support Built into Masonry

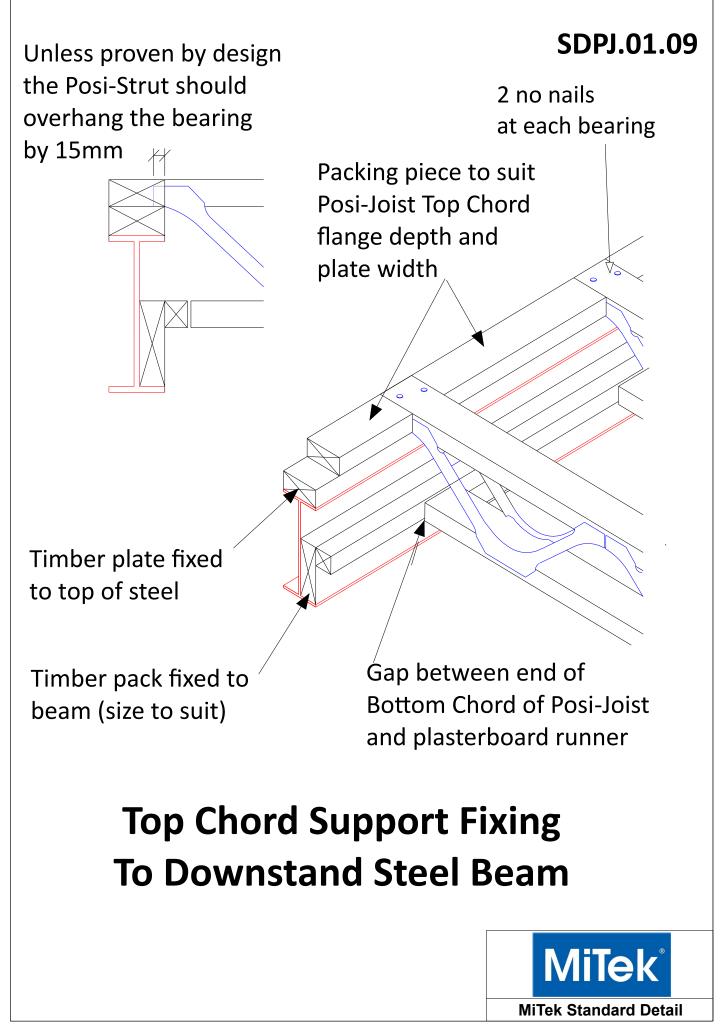


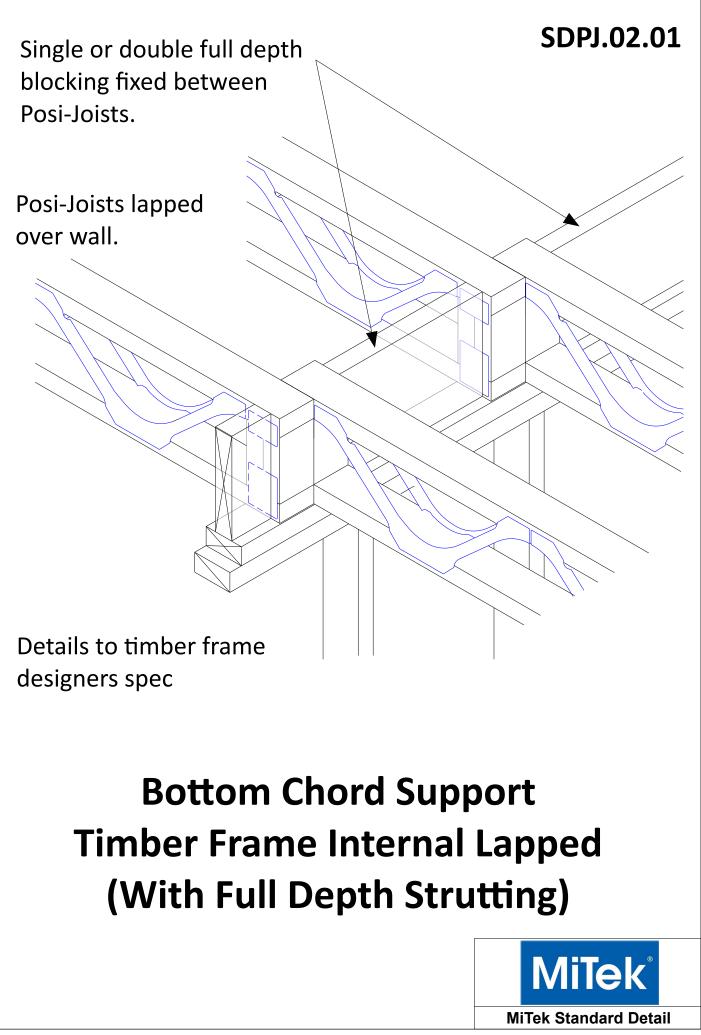
Timber pack as specified by building designer fixed to beam (size to suit).

Face fix Posi-Joist hanger Do not notch bottom chord of Posi-Joist over bottom flange of hanger

Bottom Chord Support to Steel Beam







SDPJ.02.02

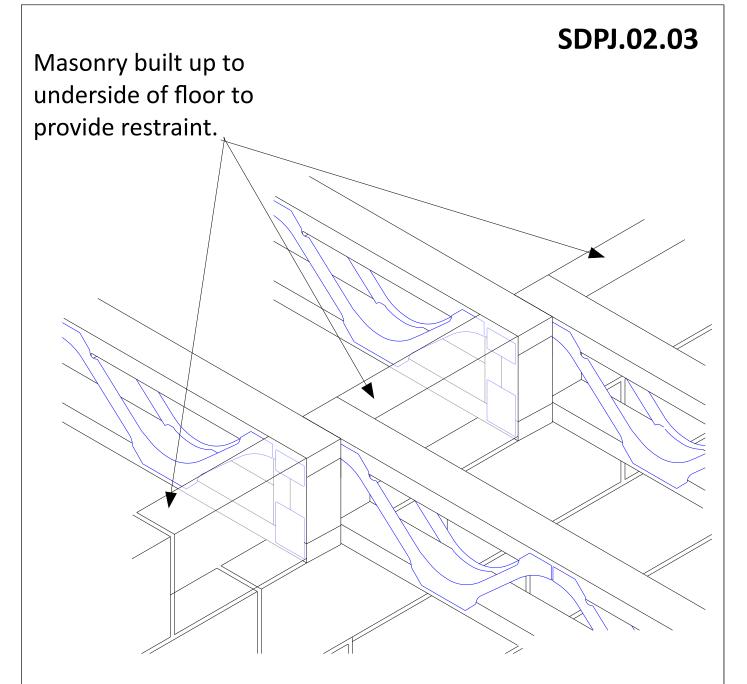
Solid or EWP full depth blocking required between Posi-Joists only if there is a load bearing wall above.

Studs positioned \checkmark beneath Posi-Joists.

Details to timber frame designers spec

Bottom Chord Support Timber Frame Internal Continuous (With Full Depth Strutting If Required)



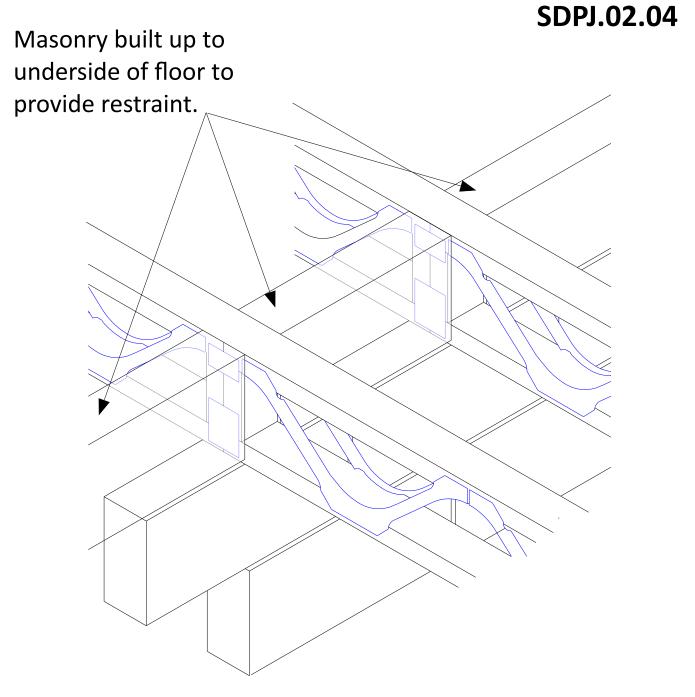


Posi-Joists lapped over wall.

Note: Use on internal load bearing internal walls (not fire walls).

Bottom Chord Support Internal Masonry Lapped

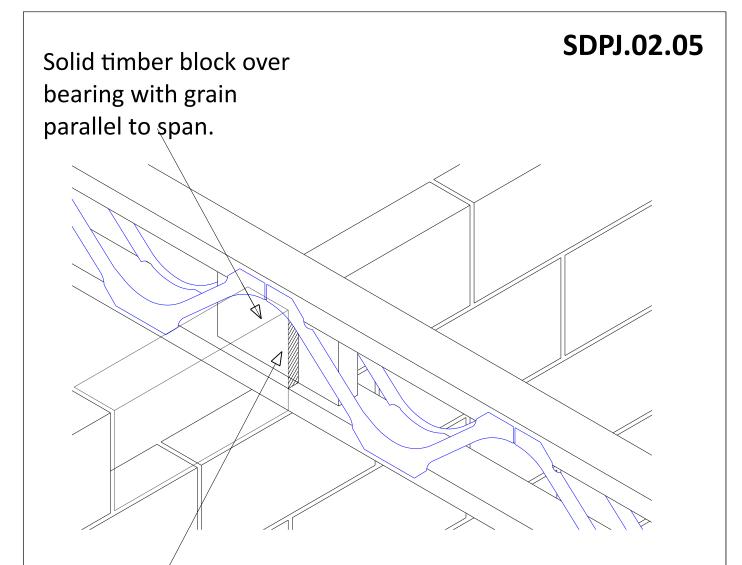




Note: Minimum 45mm Bearing Required If Posi-Joist split on centre of wall.

Bottom Chord Support Internal Masonry Continuous or Butting Ends.





Gap to be filled to provide air tightness.

Note: Use on internal load bearing internal walls (not fire walls).

Bottom Chord Support Internal Masonry Continuous Joist with solid timber block



SDPJ.02.06

2 no Framing anchors at each connection. Fixed to beam by others.

Posi Joist Straddled over Steel with pocket

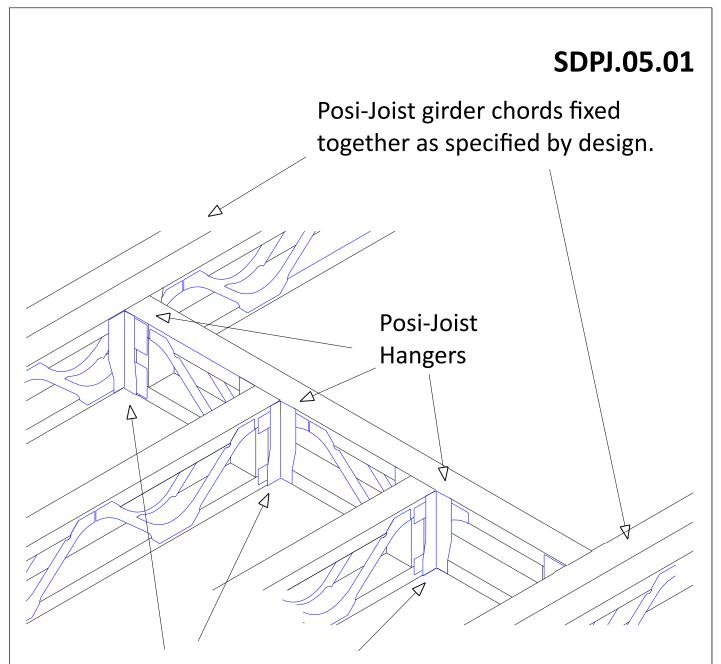
Instalation and fixing of hanger to be in accordance with manufacturers details and recommendations



SDPJ.03.01 Wall panel skew nailed through onto support noggin with a min of 2 no 3.35 dia galvanised wire nails, length to suit. Panel head restrainint nogging nailed down onto wall panel as above. Clips. 38x89 C16 (min) noggins at max 600mm centres. **Non-Loadbearing Wall** Parallel with Posi-Joists. MiTek

MiTek Standard Detail

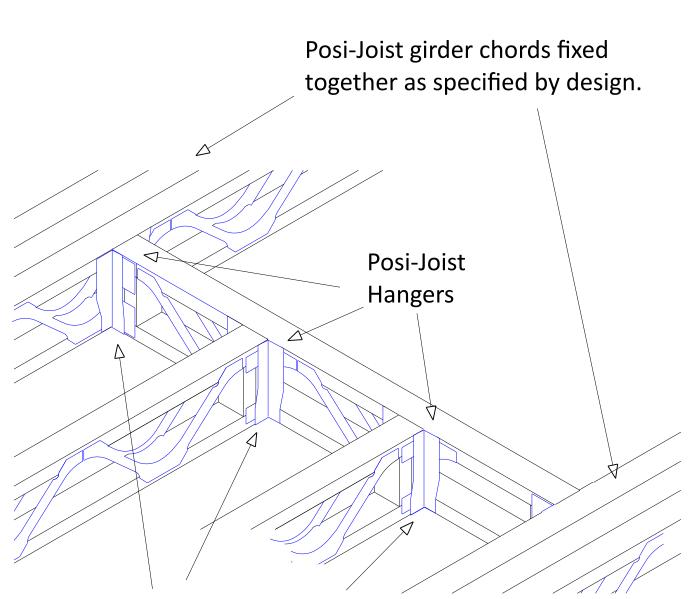
											SD	PJ.(04.	01
													-	
POSI JOIST SIZE	w	CIRCLE DIA	SQUARE	50	75	100	125	150	175	DEPT 200 VIDTI	225	250	275	300
PS-8	108	105	95	270	180	90	-	-	-	-	-	-	-	-
PS-9	131	124	115		240		100	-	-	-	-	-	-	-
PS-10	159	150	135	320	270	210	160	80	-	-	-	-	-	-
PS-12	210	190	155	350	310	260	210	160	110	70	-	-	-	-
PS-14	279	250	200	490	440	390	350	300	250	200	160	110	60	-
PS-16	327	272	220	510	470	430	390	340	300	260	220	170	130	90
	MA	E SERV FERIAL THE Max	to be A Voids	ABLI IN T	E TC ГНЕ) BE PO	E FEI SI-J(D TH DIST	HRC ΓS	UG				
						uu		,		ſ			k d Det	



Do not notch bottom chord of Posi-Joist over bottom flange of hanger.

Opening with 2-ply Posi-Joist Girder and Posi-Joist Trimmer Beam

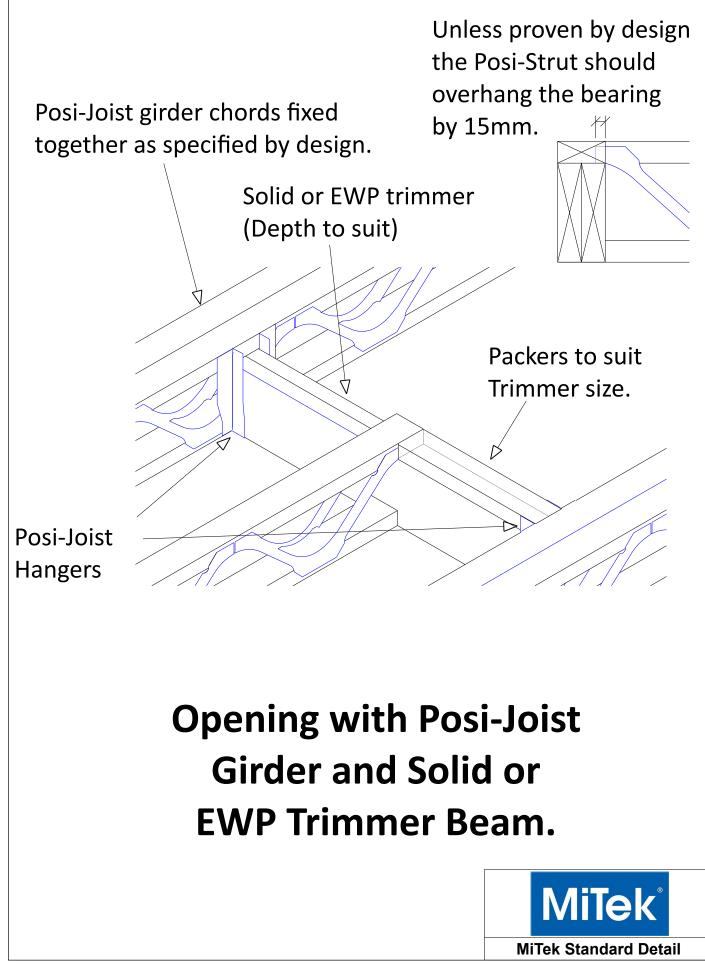




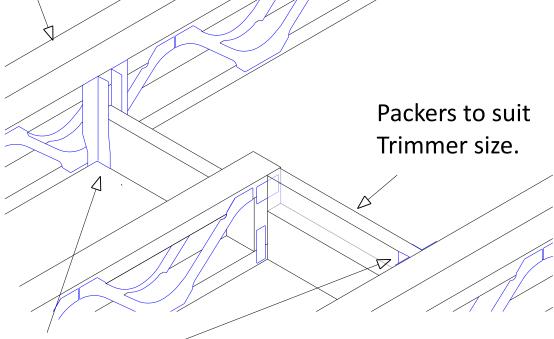
Do not notch bottom chord of Posi-Joist over bottom flange of hanger.

Opening With 3 Ply Posi-Joist Girder and Posi-Joist Trimmer Beam





Posi-Joist girder chords fixed together as specified by design.



Posi-Joist Hangers

Staircase Opening With Posi-Joist Girder and Solid Timber Trimmer Beam On Hangers



Posi-Joist girder chords fixed together as specified by design.

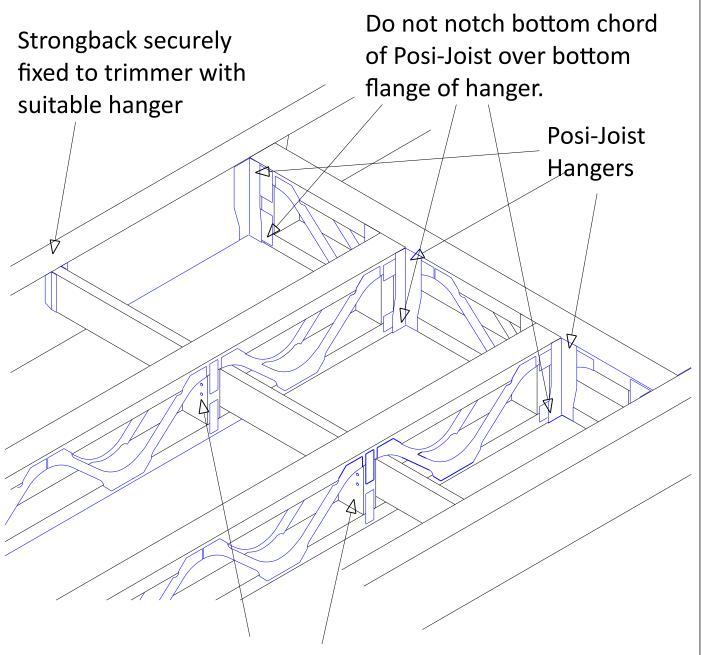
Solid timber or EWP trimmer at depth to suit slotted through girders

Packing piece to pick up ceiling

Packers to suit Trimmer size.

Staircase Opening With Solid Timber Or EWP Trimmer Beam Slotted Through Posi-Joist Girder

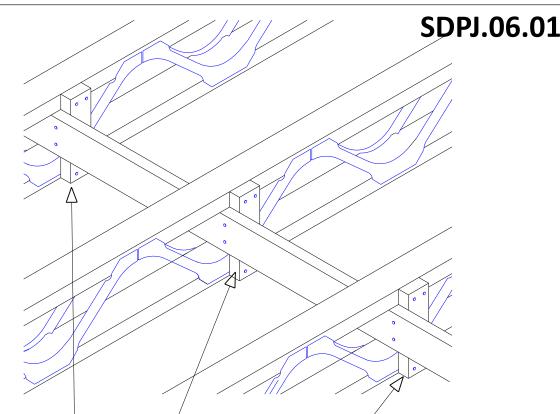




Twice nail brace to web using 3.1 x 75mm long galvanised wire nails

Staircase Opening With EWP Stair Trimmer and Posi-Joist Trimmer beam





38x75 (min) blocks twice nailed to top and bottom members and twice nailed to strongback using 3.1x75mm long galvanised ring shank nails.

WEB SIZE	RECOMMENDED MIN STRONGBACK SECTION					
PS-8, PS-9 & PS-10	47 x 97 TR26*					
PS12, PS-14 & PS16	36 x 147 TR26*					

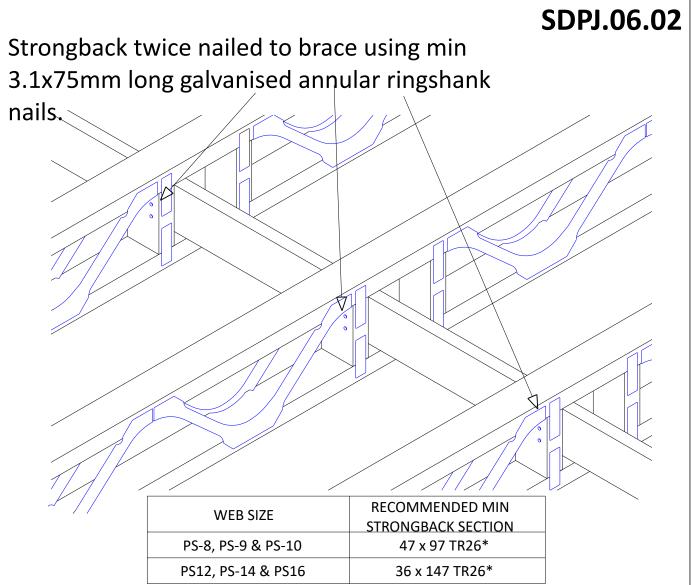
Minimum recommended strongbacksizes are given above. See Posi-Joist calculations for EC5 floor designed sizes. Note: Using smaller sizes than specified will invalidate the design. Position strongbacks tight to the underside of top chord.

> INSERT STRONGBACK THROUGH POSI - JOISTS BEFORE FIXING AS IT CANNOT BE INSTALLED AFTE THEY HAVE BEEN FIXED.

Strongback Detail Fixed to Site Added Blocks

(Fix at a maximum of 4.0 metre centres and within effective zone)





Minimum recommended strongbacksizes are given above. See Posi-Joist calculations for EC5 floor designed sizes. Note: Using smaller sizes than specified will invalidate the design. Position strongbacks tight to the underside of top chord.

> INSERT STRONGBACK THROUGH POSI - JOISTS BEFORE FIXING AS IT CANNOT BE INSTALLED AFTE THEY HAVE BEEN FIXED.

Strongback Detail

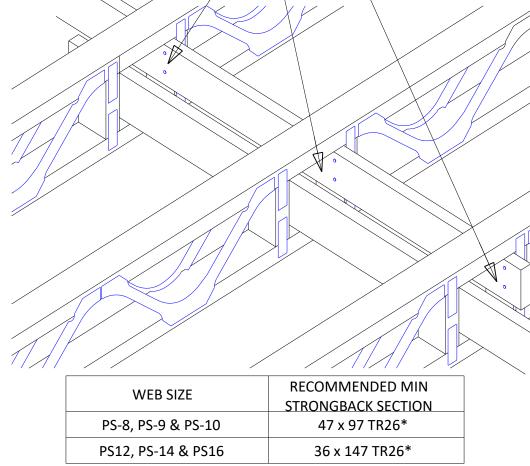
Fixed To Built In Vertical Webs

(Fix at a maximum of 4.0 metre centres and within effective zone)



SDPJ.06.03

Strongback twice nailed to brace using min 3.1x75mm long galvanised annular ringshank nails.



Minimum recommended strongbacksizes are given above. See Posi-Joist calculations for EC5 floor designed sizes. Note: Using smaller sizes than specified will invalidate the design. Position strongbacks tight to the underside of top chord.

> INSERT STRONGBACK THROUGH POSI - JOISTS BEFORE FIXING AS IT CANNOT BE INSTALLED AFTE THEY HAVE BEEN FIXED.

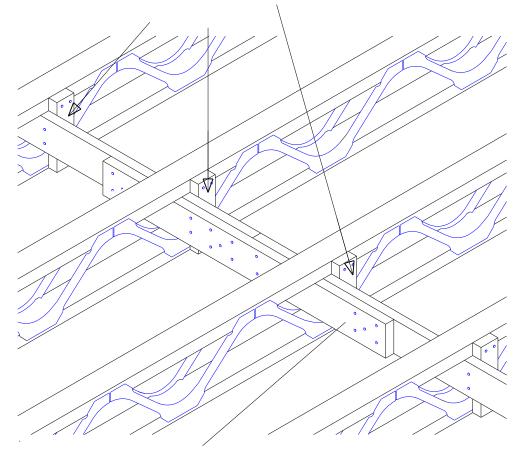
Strongback Bridging Fixed To Built In Vertical Webs

(Fix at a maximum of 4.0 metre centres and within effective zone)



SDPJ.06.04

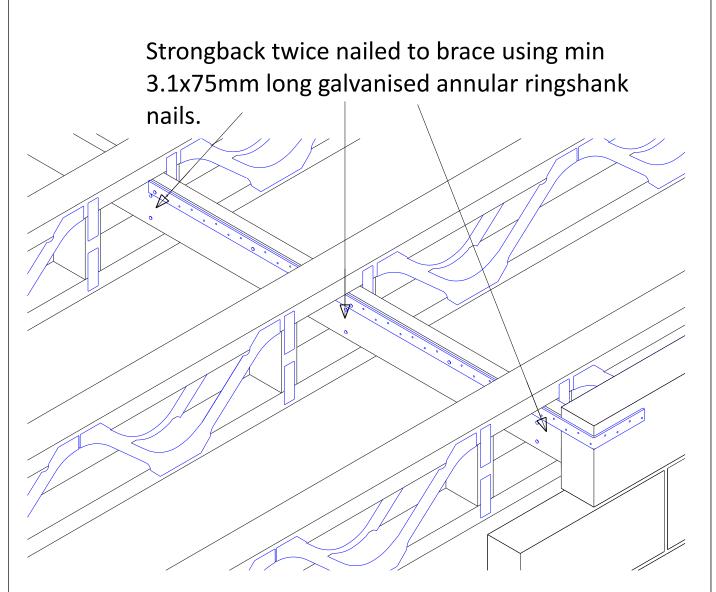
38x75 (min) blocks twice nailed to top and bottom members and twice nailed to strongback using 3.1x75mm long galvanised annular ringshank nails.



1200mm long splice fixed with 10no 3.1x90mm long galvanised annular ringshank nails each side of splice, nailed through and clenched over on far side.

Strongback Splice Fixed to Site Added Blocks

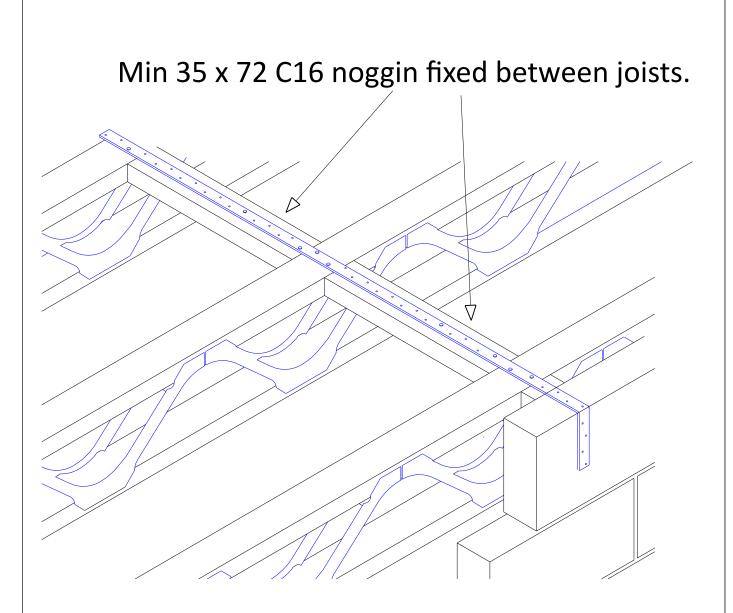




Strap fixed along top edge of strongback. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap Fixed to Strongback





Strap fixed to noggin. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap Fixed To Noggins

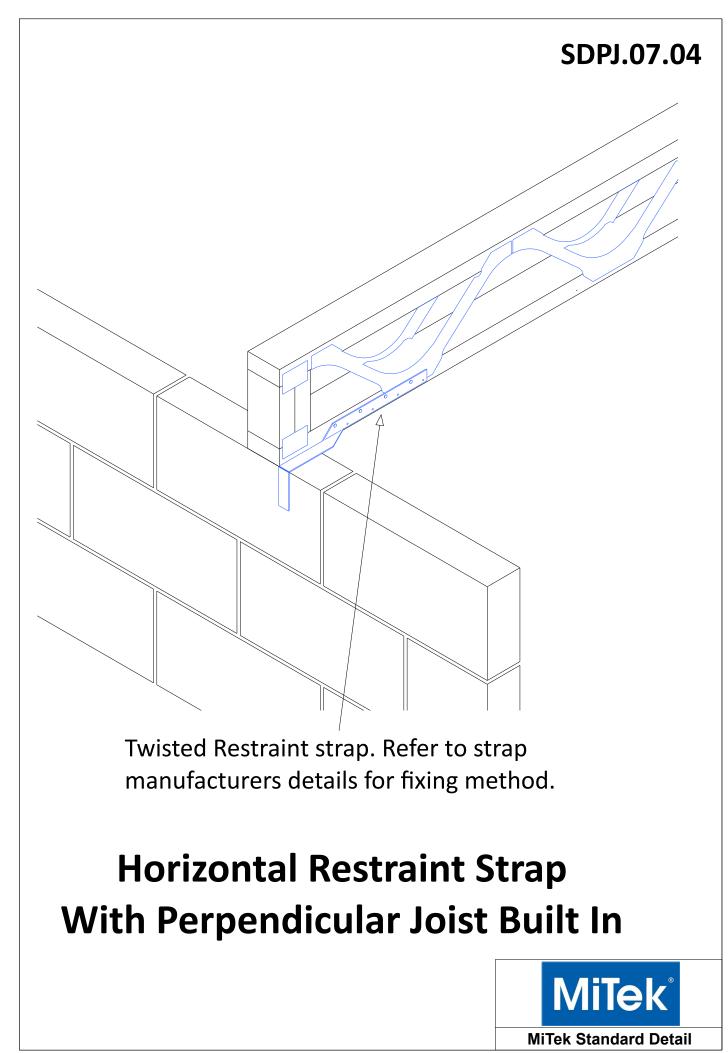


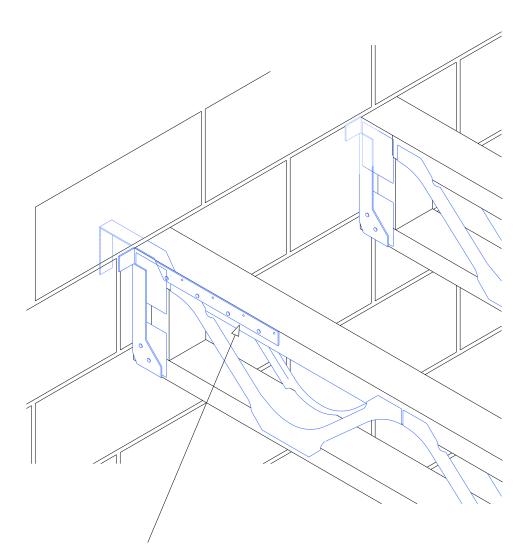
35x97 C16 Noggin nailed to underside of top chord of Posi-Joist using 3.1x75mm long galvanised annular ringshank nails.

Strap fixed along top edge of strongback. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap Fixed to Continuous Noggin



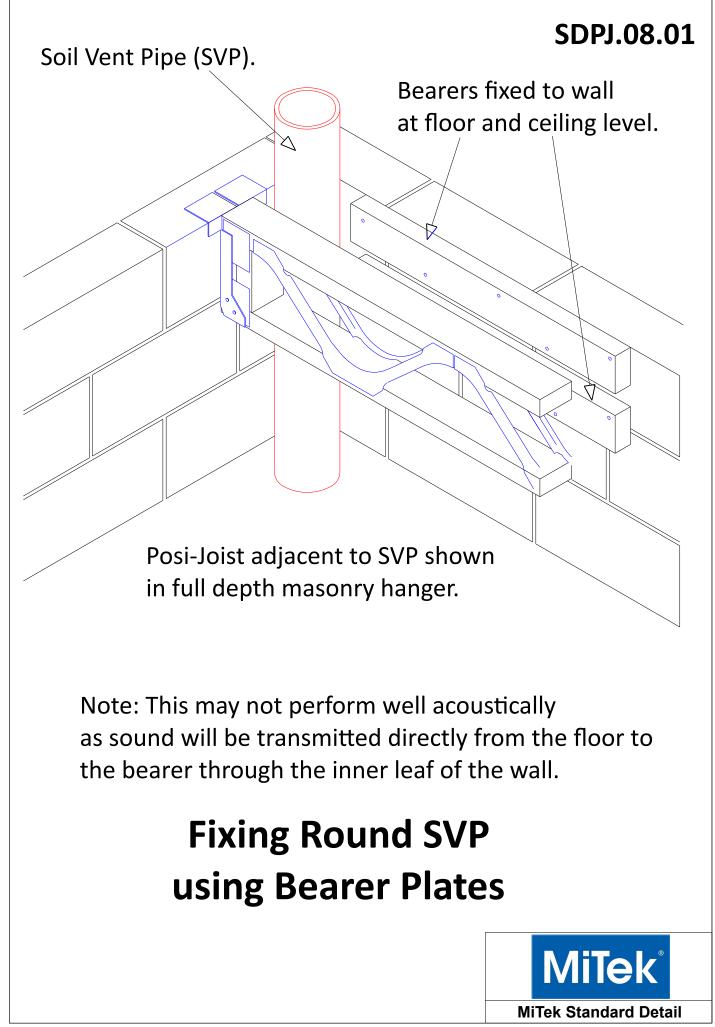




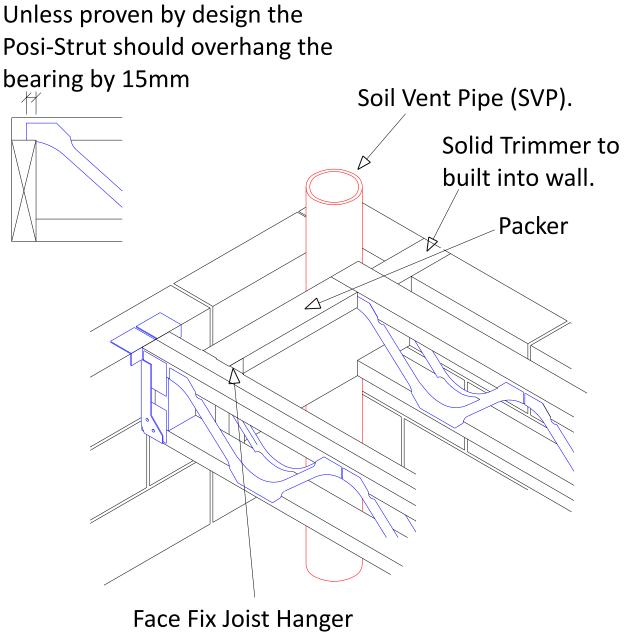
Twisted Restraint strap. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap With Perpendicular Joist Into Hanger





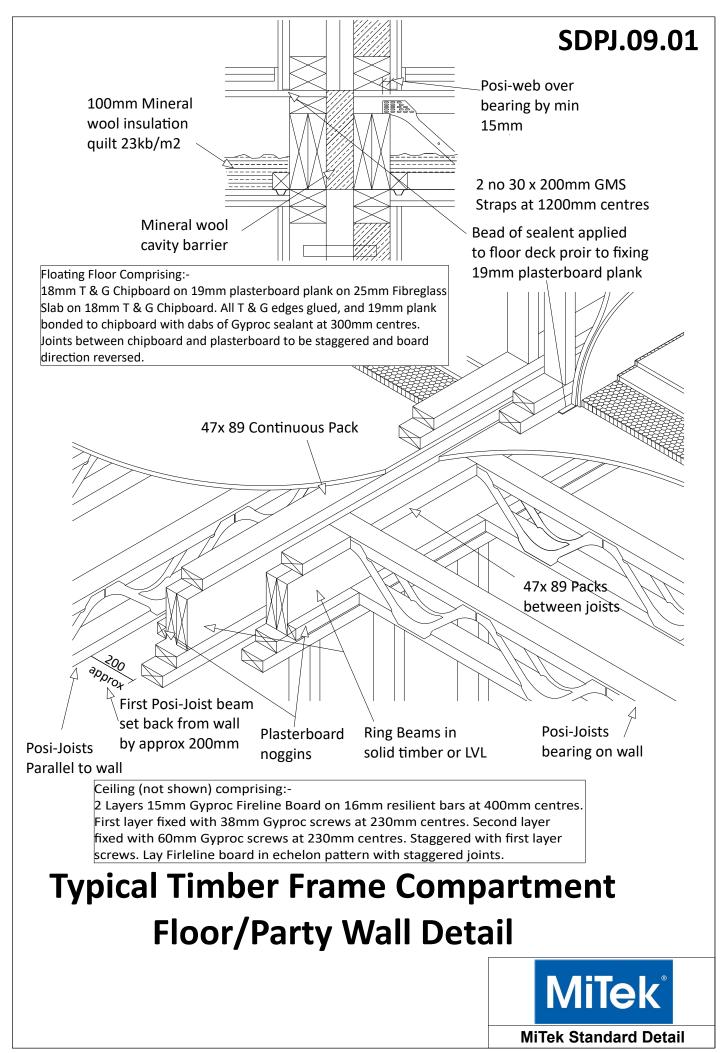
SDPJ.08.02

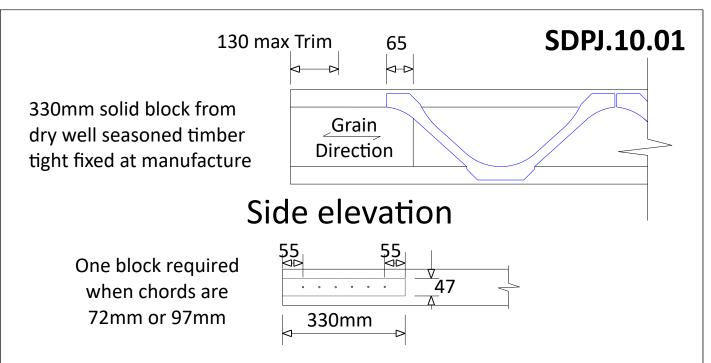


(Solid Trimmer to Posi-Joist)

Fixing Round SVP using Solid Trimmer.

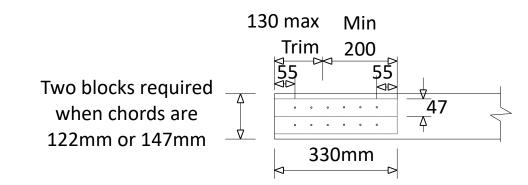






For 72 or 97 wide Posi joists insert one trimmable block secured with 6 no. 3.1 x 90 long power driven annular ring-shank or 3.3 x 98 long power driven screw-shank nails into the top and 6 into the bottom at 44mm centres.

Plan view of Posi-Joist with one block

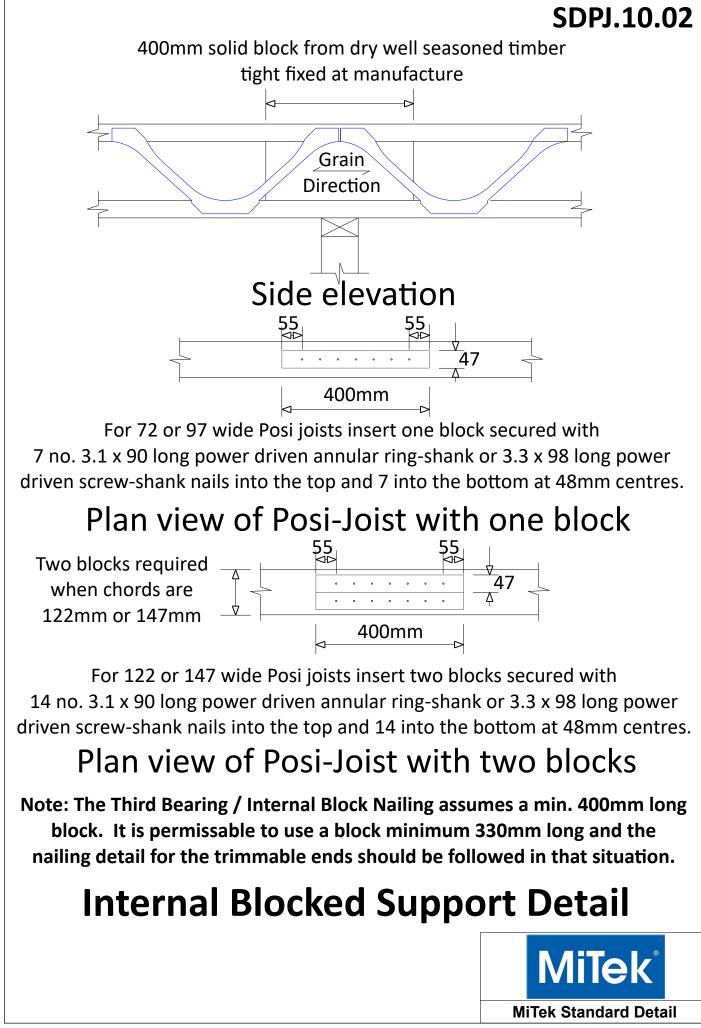


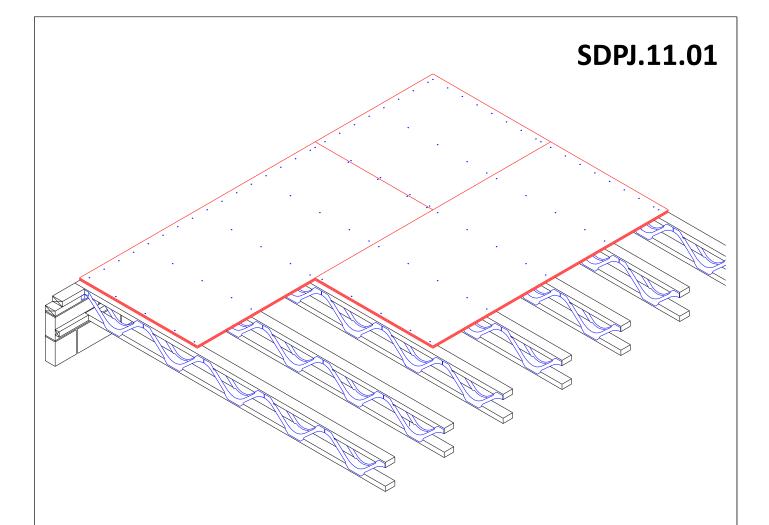
For 122 and 147 wide Posi joists insert two trimmable blocks secured with 12 no. 3.1 x 90 long power driven annular ring-shank or helically twisted nails into the top and 12 into the bottom at 44mm centres.

Plan view of Posi-Joist with two blocks

Site Trimmable Block End Support Detail







Boards should be laid with long edge at right angle to joists and all joints should be staggered.

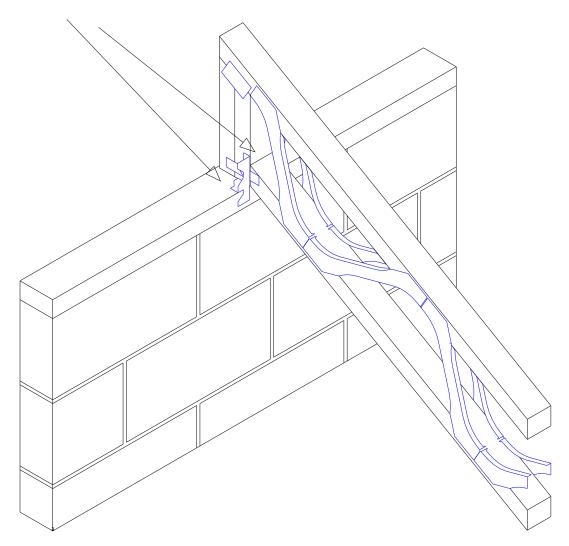


Boards should be glued and Fixed down to the joists using suitable fixings and MiTek JOIST-IK glue or similar approved adhesive.

Tongue and Groove Boards

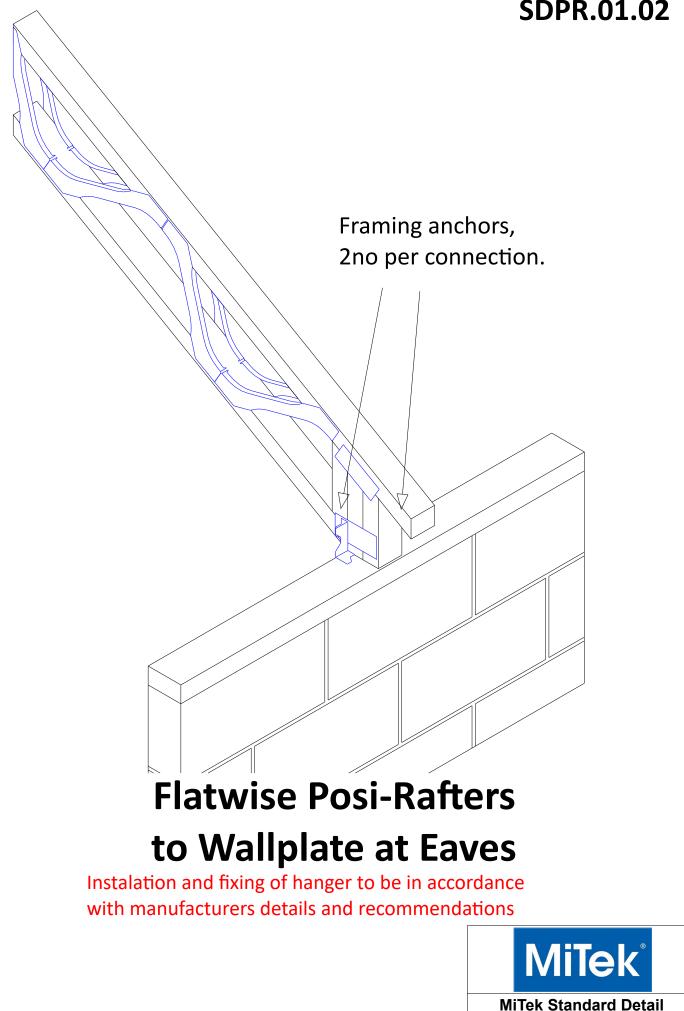


Framing anchors, 2no per connection.



Flatwise Posi-Rafters to Wallplate at Apex

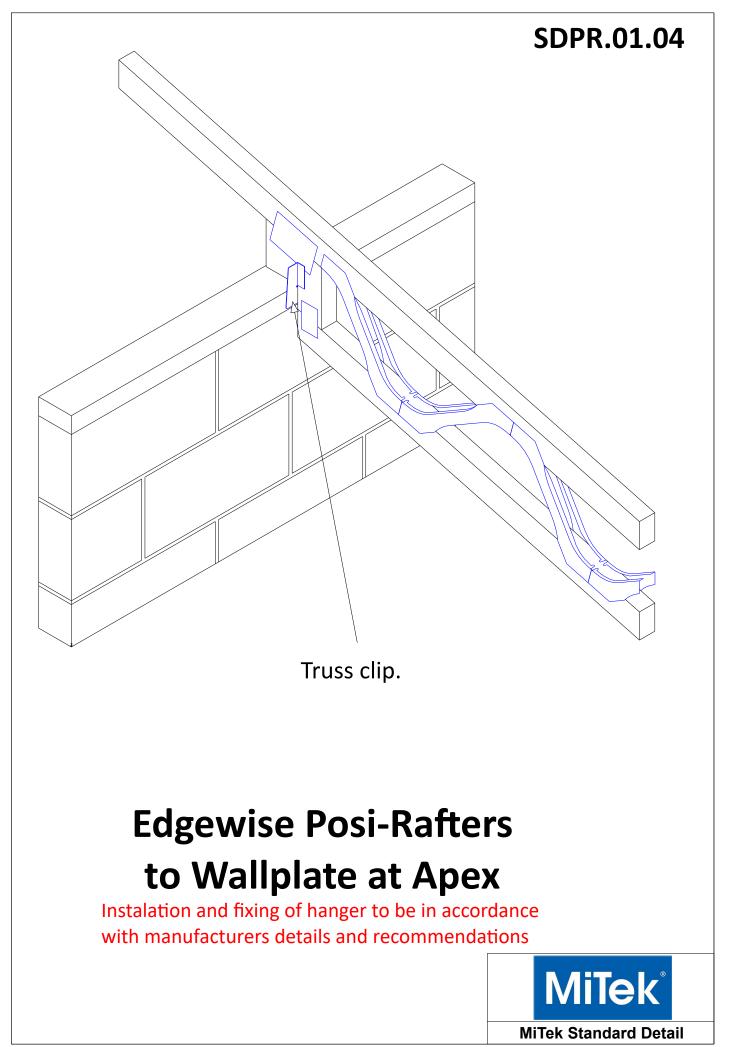


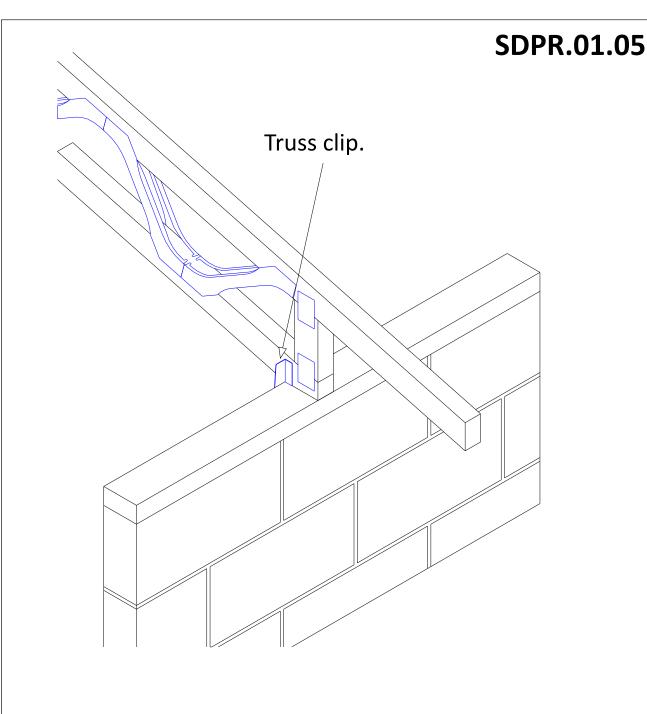


Framing anchors, 2no per connection.

Flatwise Posi-Rafters to Steel at Apex

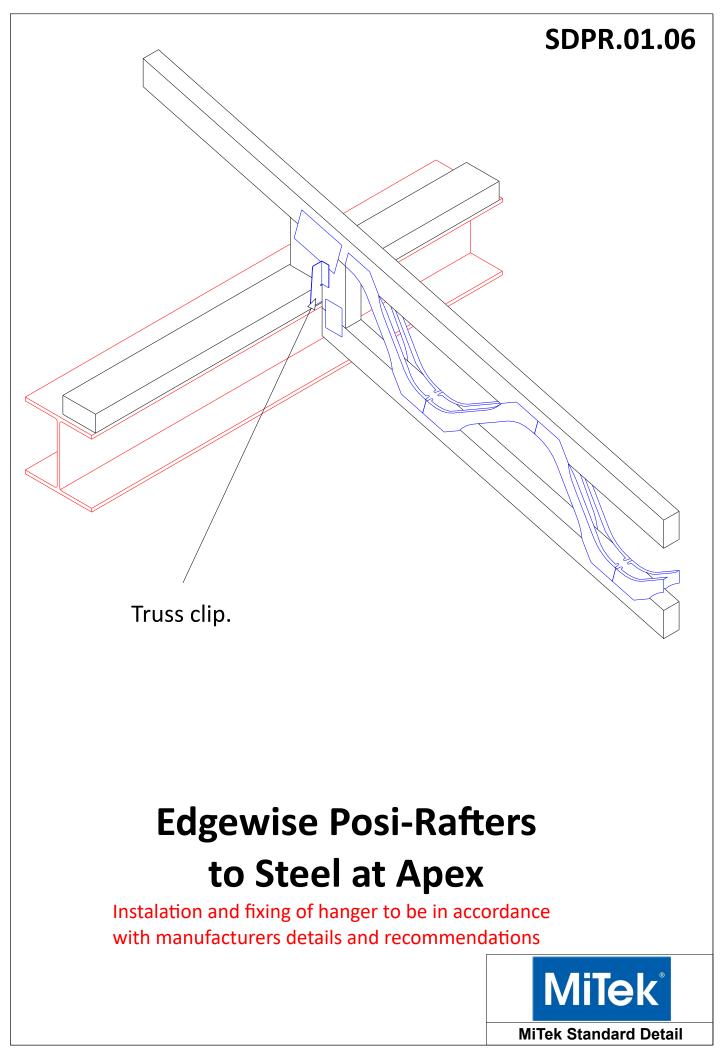






Edgewise Posi-Rafters to Wallplate at Eaves





Steel fully packed out. Posi Rafter to sit in approprate hanger.

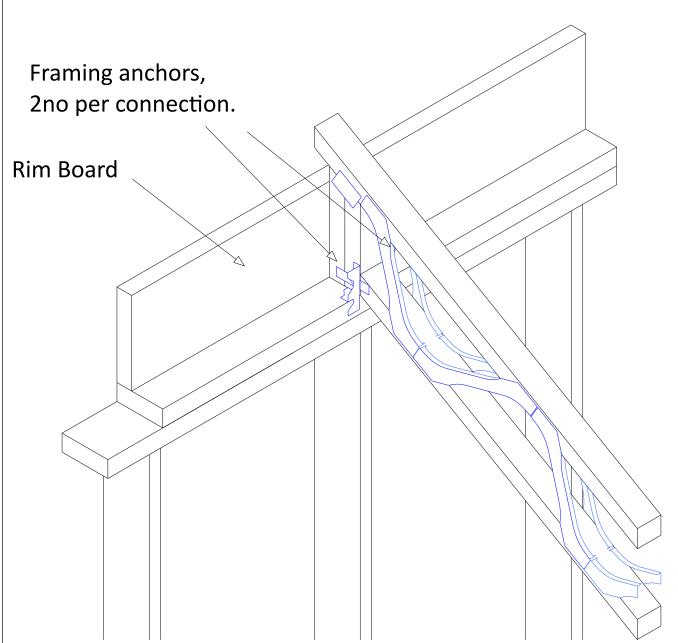
Flatwise Posi-Rafters to Steel at Apex



SDPR.01.08 Steel fully packed out. Posi Rafter to sit in approprate hanger.

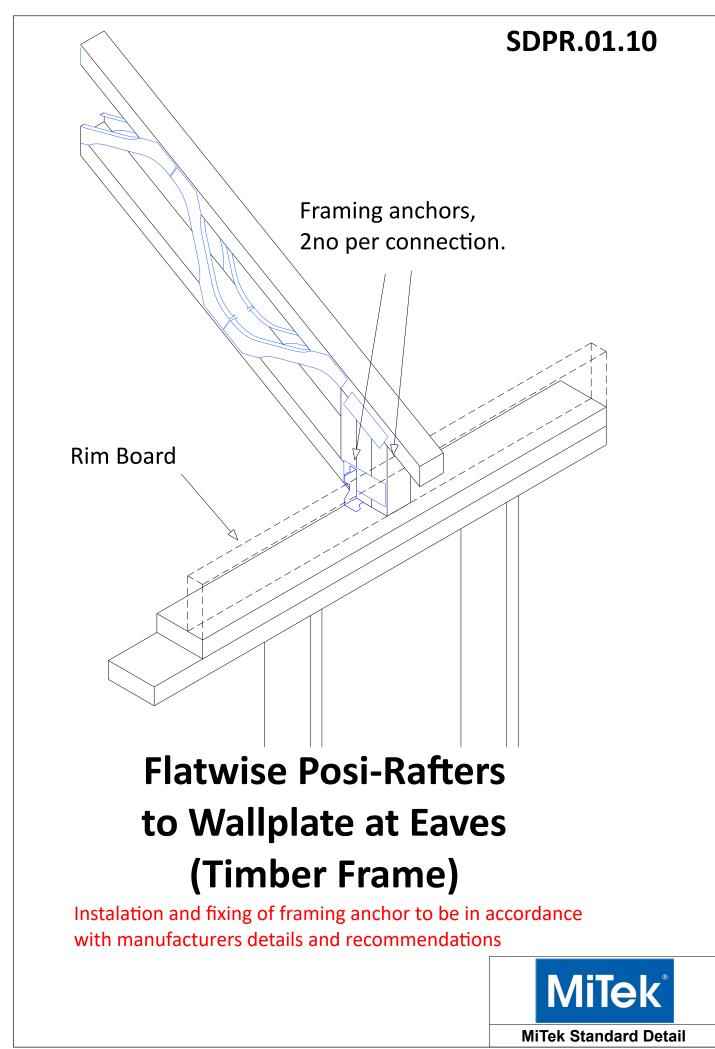
Edgewise Posi-Rafters to Steel at Apex

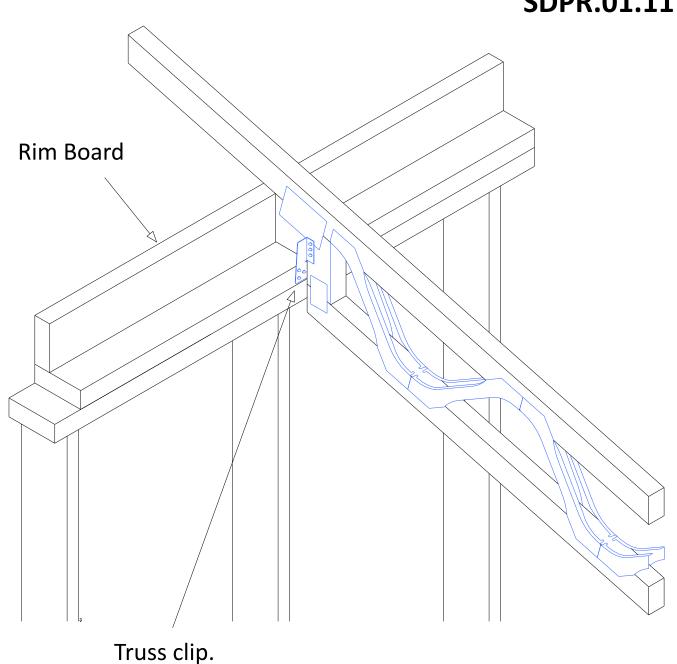




Flatwise Posi-Rafters to Wallplate at Apex (Timber Frame)

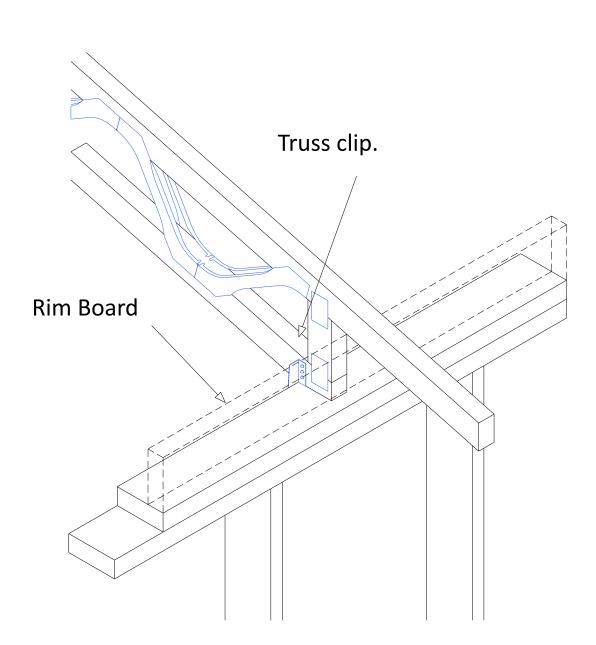






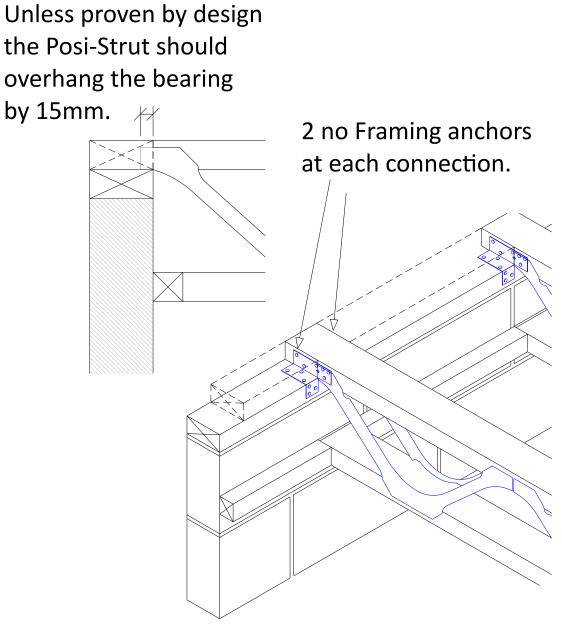
Edgewise Posi-Rafters to Wallplate at Apex





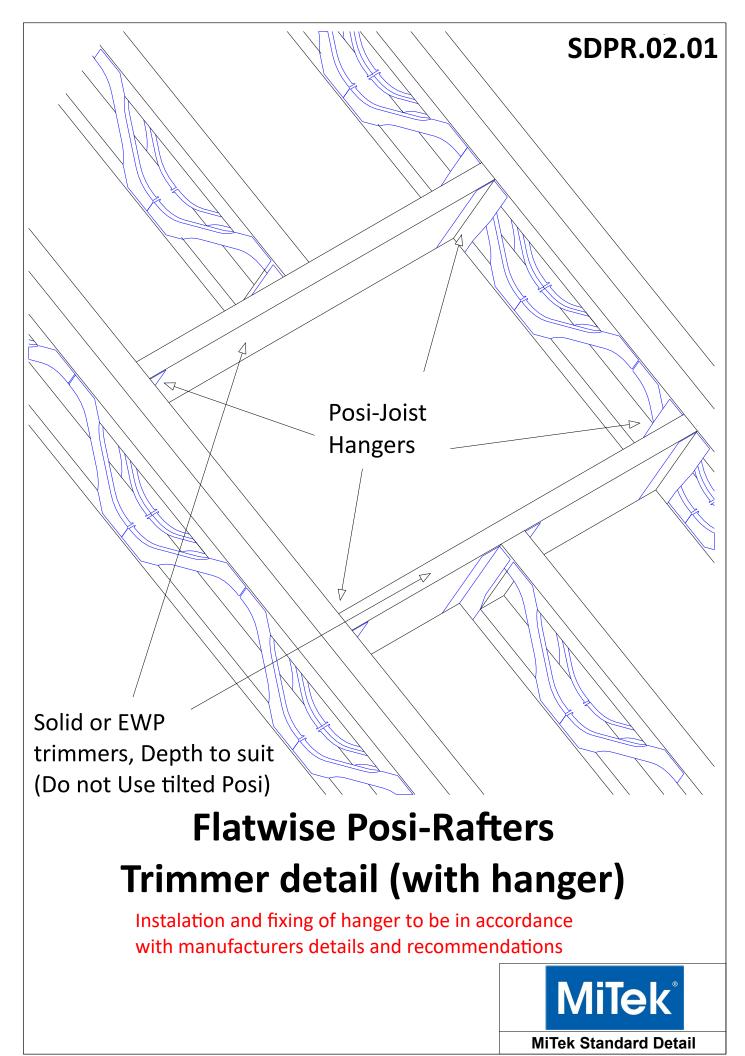
Edgewise Posi-Rafters to Wallplate at Eaves





Flat roof Joist Top Chord Support





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SDPR.02.02

Solid or EWP trimmers, Depth to suit (Do not Use tilted Posi)

> Posi Joist hangers

2 no nails at each bearing

Packers to suit Trimmer size.

Nogap

^{15°} Max pitch

Flatwise Posi-Rafters

Trimmer detail (top chord fixing)





Strap fixed to noggin. Refer to strap manufacturers details for fixing method.

Posi-Rafters

Horizontal Restraint detail



SDPR.03.01

Twice nail brace to web using 3.1 x 75mm long galvanised wire nails

INSERT STRONGBACK THROUGH POSI - JOISTS BEFORE FIXING AS IT CANNOT BE INSTALLED AFTER THEY HAVE BEEN FIXED.

Mid Span Longitudinal Brace Fixed To Built In Vertical Webs

(Fix at a maximum of 4.0 metre centres and within effective zone)



SDPR.03.02

