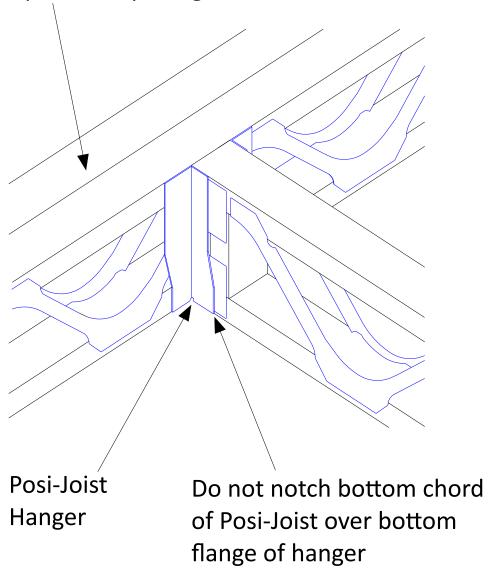
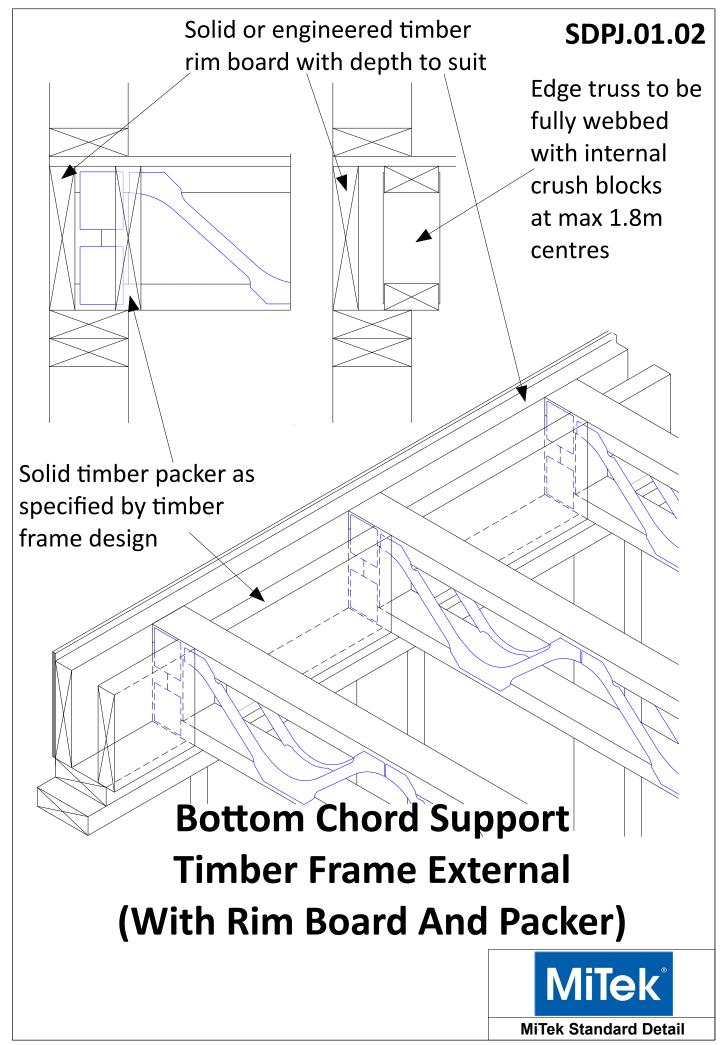
Posi-Joist girder chords fixed together as specified by design



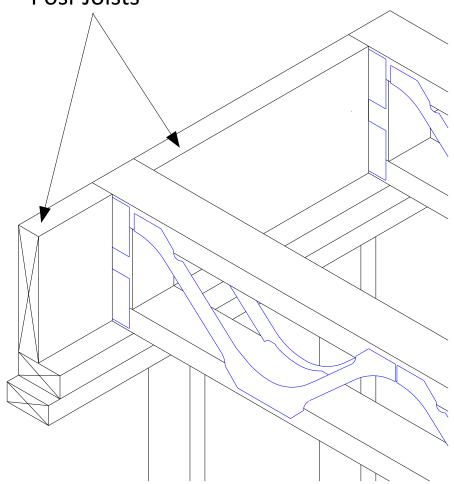
Note: Loaded face be clearly marked on Posi-Joist girder

Posi-Joist To Girder Detail





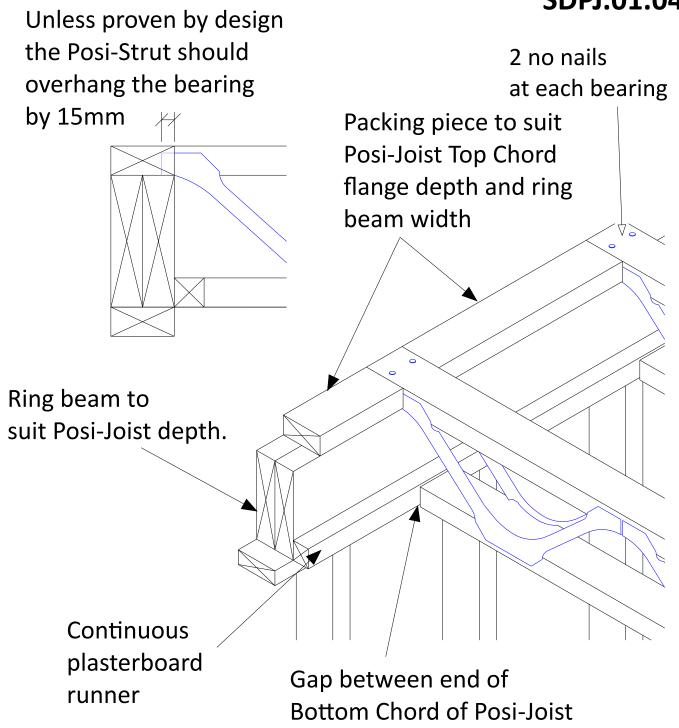
Full depth chord restraint blocking fixed between Posi-Joists



Bottom Chord Support Timber Frame (With Restraint Blocking)







Top Chord Support Timber Frame Internal or External

and plasterboard runner



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.

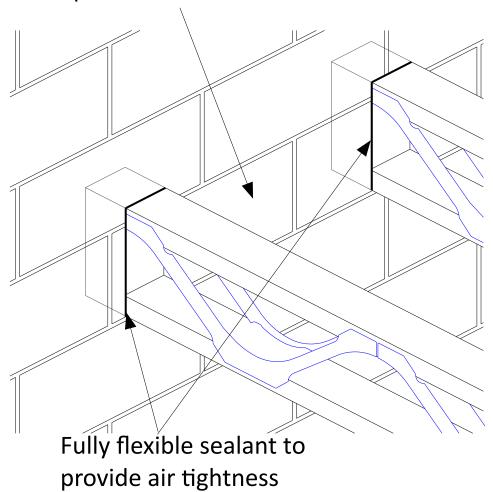
Do not notch bottom chord of Posi-Joist over bottom flange of hanger

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

Bottom Chord Support MasonryHanger with Noggin Restraint



Blockwork to continue between joists to provide restraint



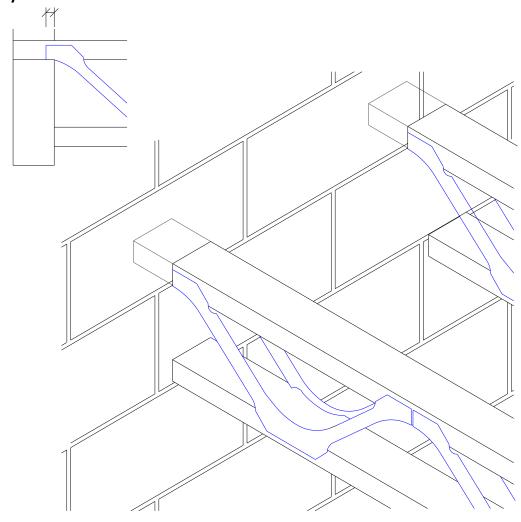
Note:

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

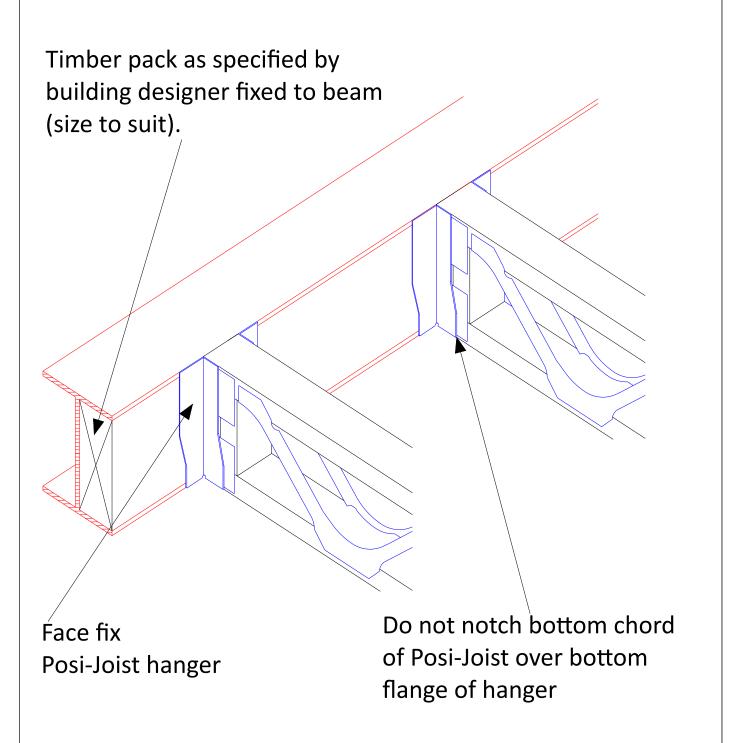


Note:

Plasterboard noggins omitted for clarity

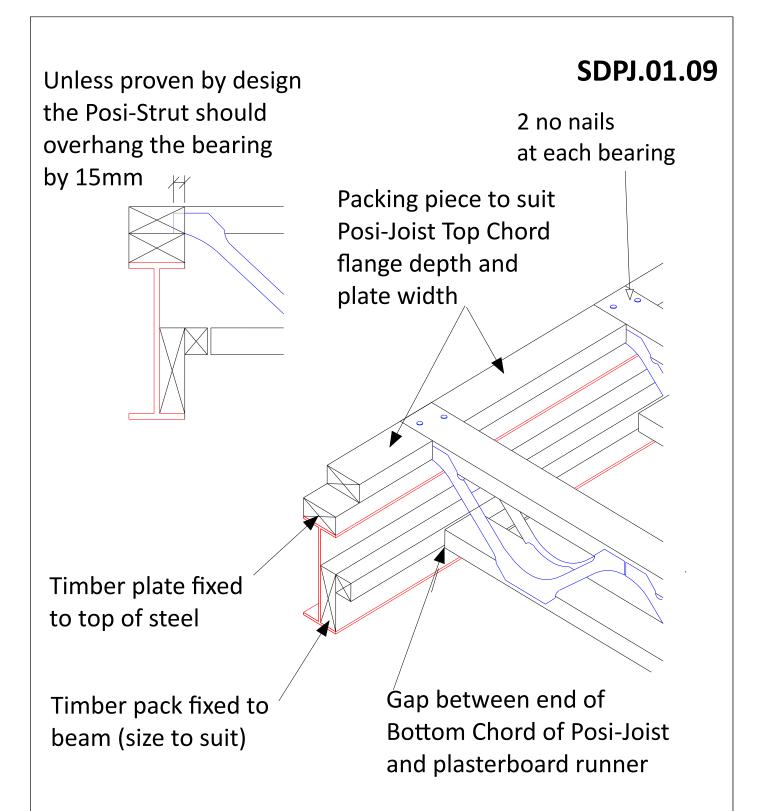
Top Chord Support Built into Masonry





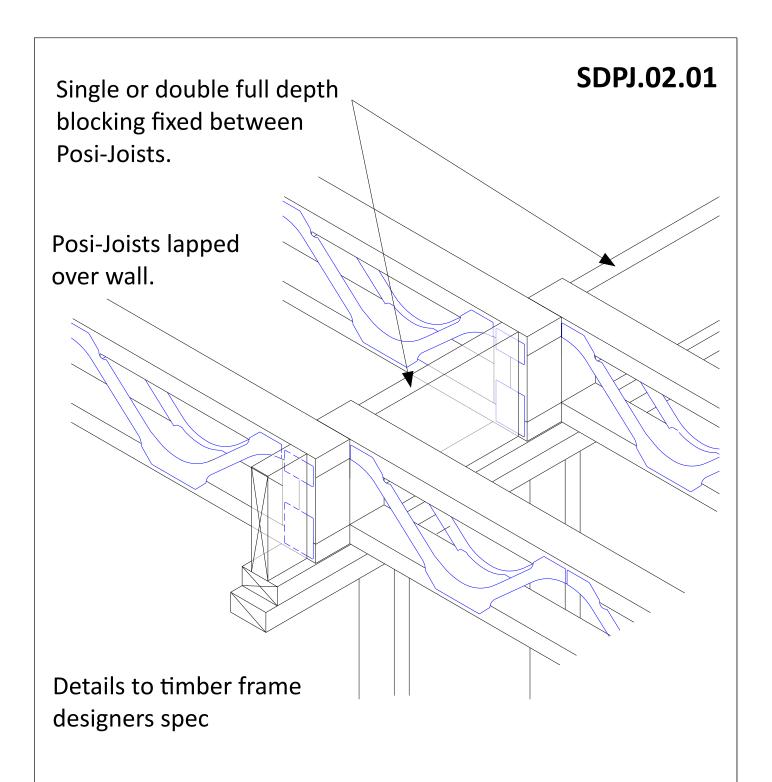
Bottom Chord Support to Steel Beam





Top Chord Support Fixing To Downstand Steel Beam

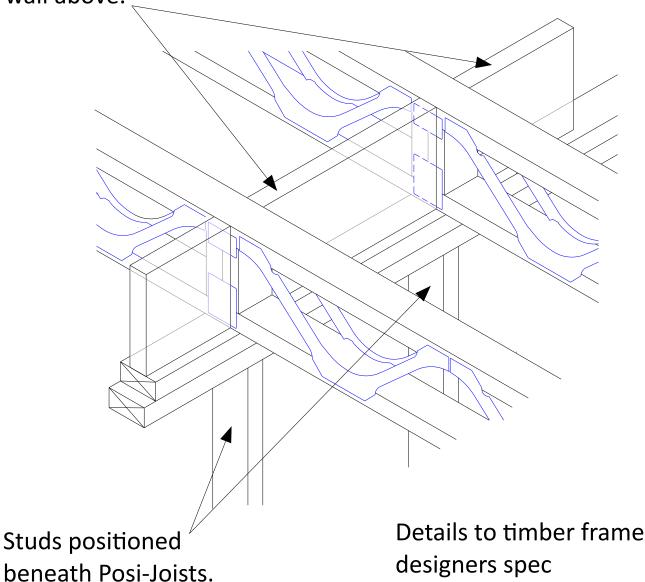




Bottom Chord Support Timber Frame Internal Lapped (With Full Depth Strutting)



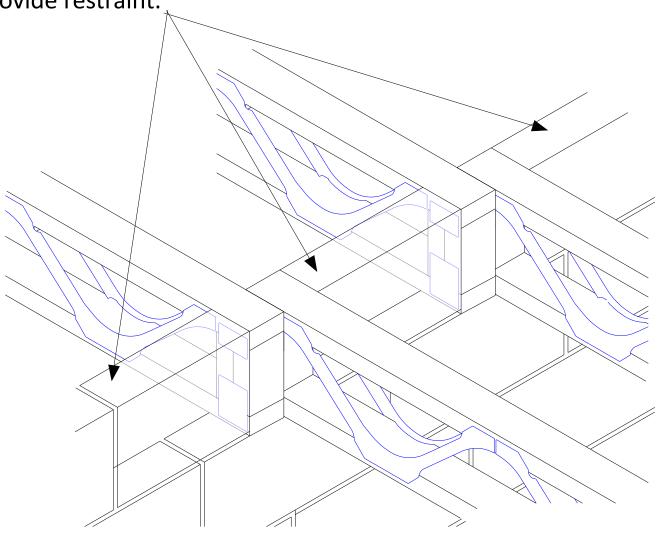
Solid or EWP full depth blocking required between Posi-Joists only if there is a load bearing wall above.



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



Masonry built up to underside of floor to provide restraint.



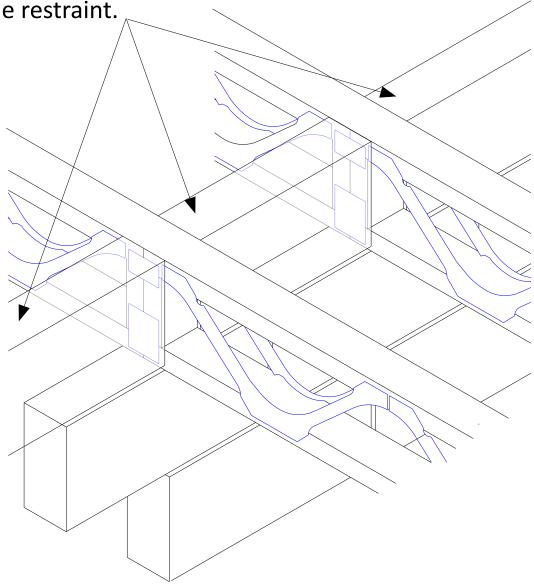
Posi-Joists lapped over wall.

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

Bottom Chord Support Internal Masonry Lapped



Masonry built up to underside of floor to provide restraint.

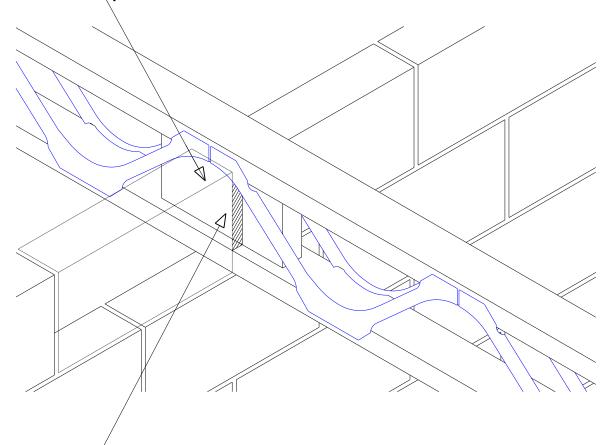


Note: Minimum 45mm Bearing Required If Posi-Joist split on centre of wall.

Bottom Chord Support Internal Masonry Continuous or Butting Ends.



Solid timber block over bearing with grain parallel to span.

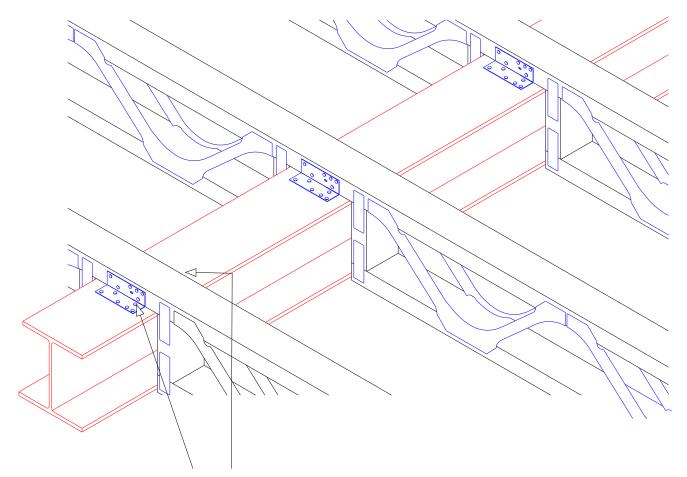


Gap to be filled to provide air tightness.

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

Bottom Chord Support Internal Masonry Continuous Joist with solid timber block





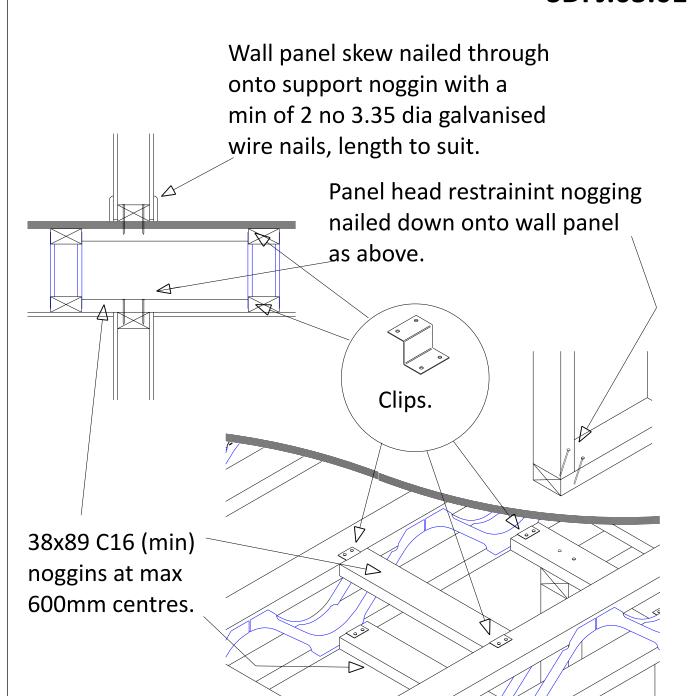
2 no Framing anchors at each connection. Fixed to beam by others.

Posi Joist Straddled over Steel with pocket

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



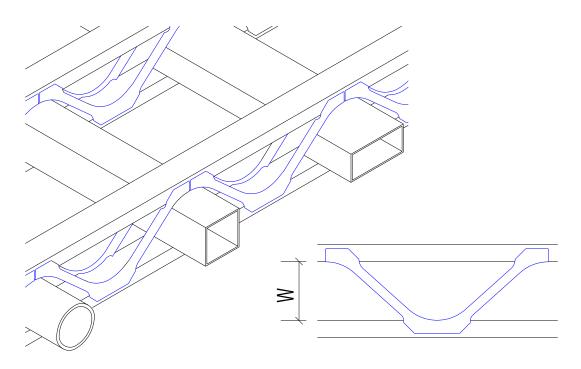
SDPJ.03.01



Non-Loadbearing Wall Parallel with Posi-Joists.



SDPJ.04.01



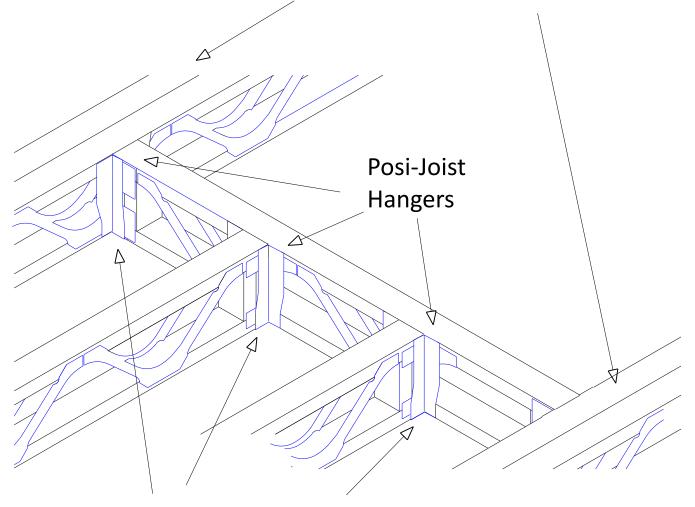
| POSI | | CIRCLE | | RECTANGLE DEPTH | | | | | | | | | | |
|-------|-----|----------------|--------|-----------------|-----|-----|-----|------|-------|-------|-----|-----|-----|-----|
| JOIST | W | DIA | SQUARE | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 275 | 300 |
| SIZE | | D 1,7 (| | | | | REC | TANG | iLE W | /IDTI | ┥ | | | |
| PS-8 | 108 | 105 | 95 | 270 | 180 | 90 | - | - | - | - | - | - | - | - |
| PS-9 | 131 | 124 | 115 | 310 | 240 | 180 | 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 |

LARGE SERVICES MAY NEED TO BE OF FLEXIBLE MATERIAL TO BE ABLE TO BE FED THROUGH THE VOIDS IN THE POSI-JOISTS

Maximum Duct Sizes



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

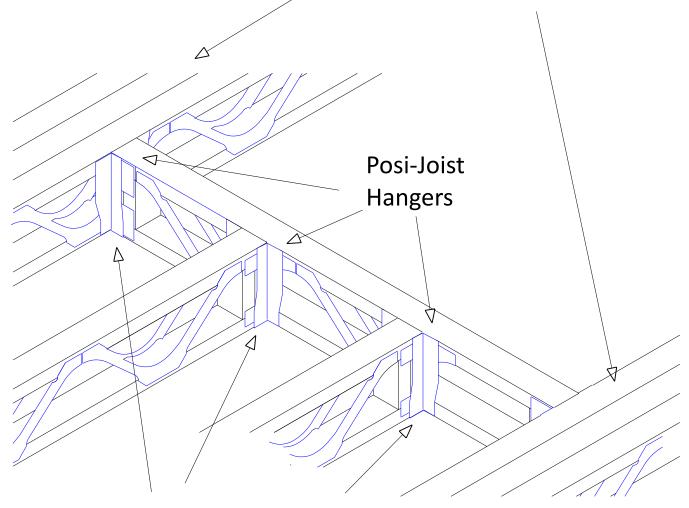


Do not notch bottom chord of Posi-Joist over bottom flange of hanger.

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



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



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

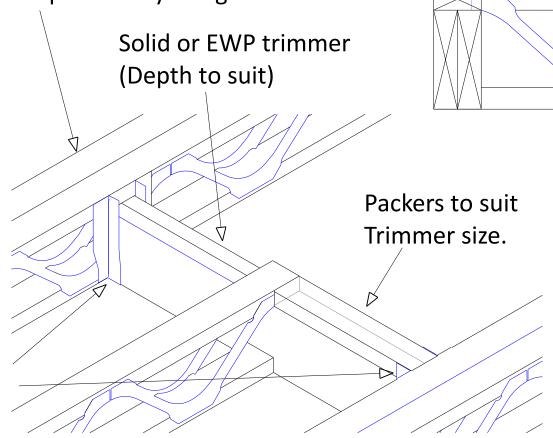


Posi-Joist girder chords fixed together as specified by design.

Posi-Joist

Hangers

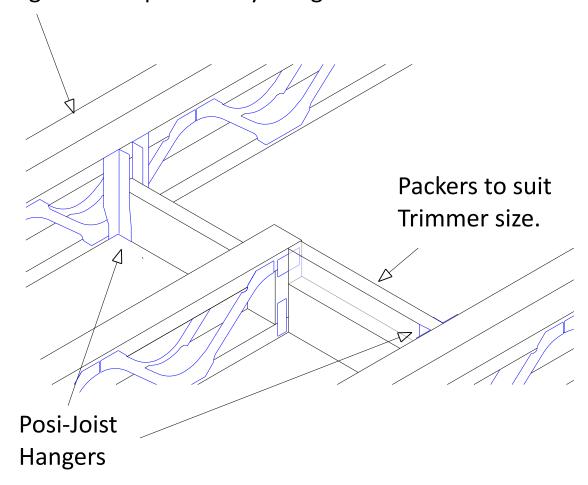
Unless proven by design the Posi-Strut should overhang the bearing by 15mm.



Opening with Posi-Joist Girder and Solid or EWP Trimmer Beam.



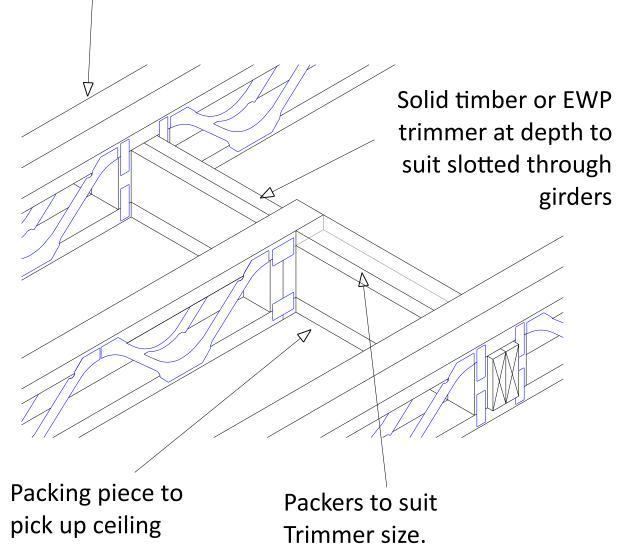
Posi-Joist girder chords fixed together as specified by design.



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

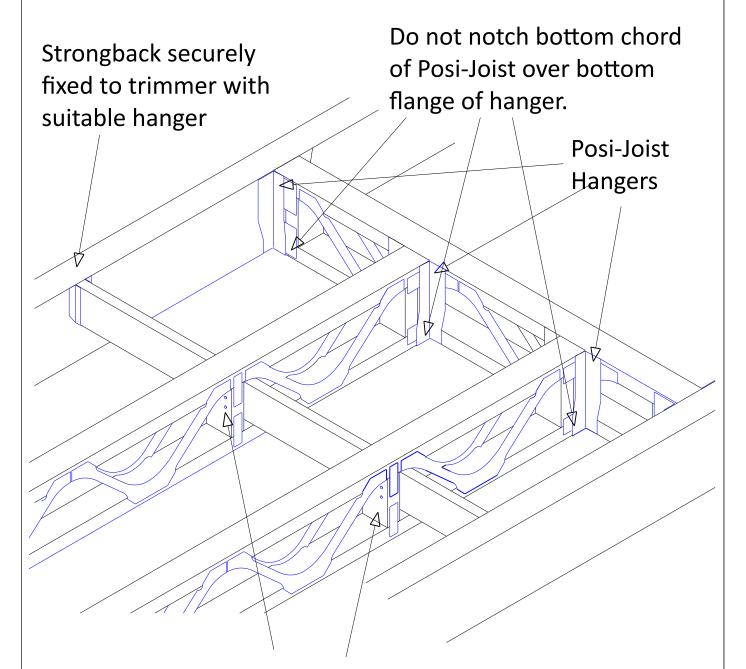


Posi-Joist girder chords fixed together as specified by design.



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

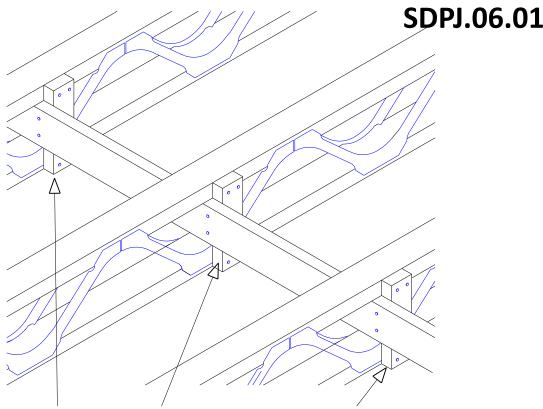




Twice nail brace to web using 3.1 x 75mm long galvanised wire nails

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.

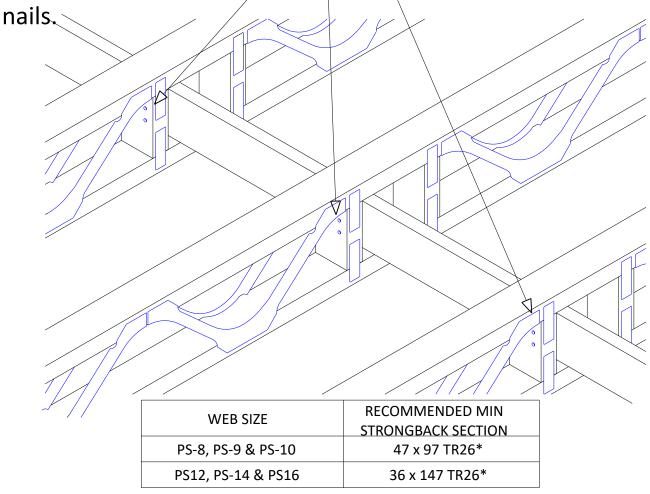
Strongback Detail Fixed to Site Added Blocks

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





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



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.

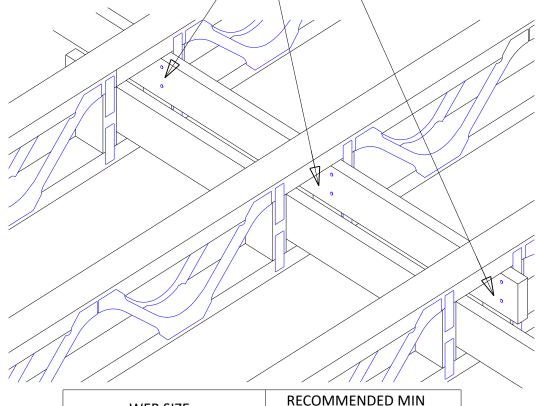
Strongback Detail Fixed To Built In Vertical Webs

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



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

nails.



| WEB SIZE | RECOMMENDED MIN | | | | | |
|--------------------|--------------------|--|--|--|--|--|
| WED SIZE | 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.

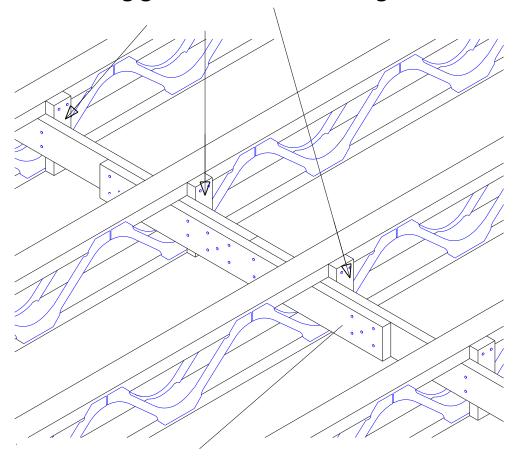
Strongback Bridging Fixed To Built In Vertical Webs

(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.

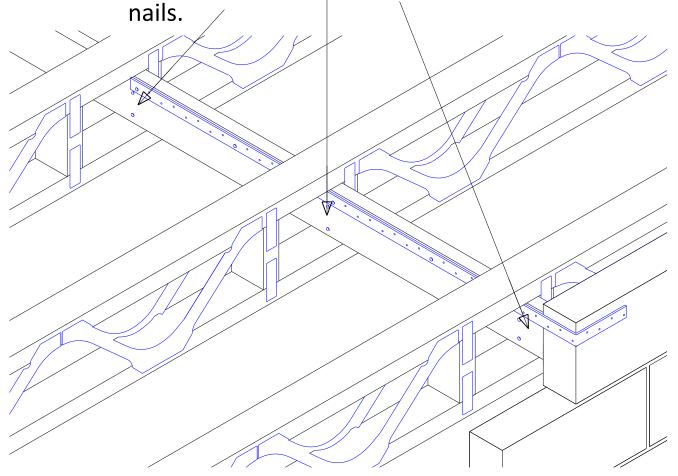


1200mm long splice fixed with 10no 3.1x90mm long galvanised annular ringshank nails each side of splice, nailed through and clenched over on far side.

Strongback Splice Fixed to Site Added Blocks



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

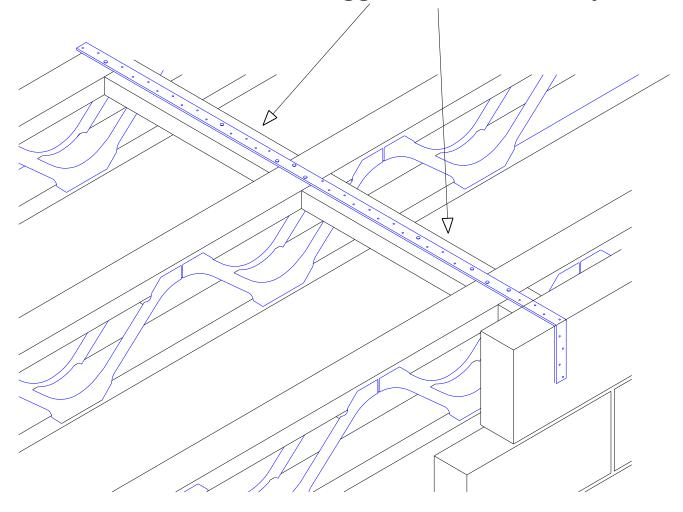


Strap fixed along top edge of strongback. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap Fixed to Strongback



Min 35 x 72 C16 noggin fixed between joists.

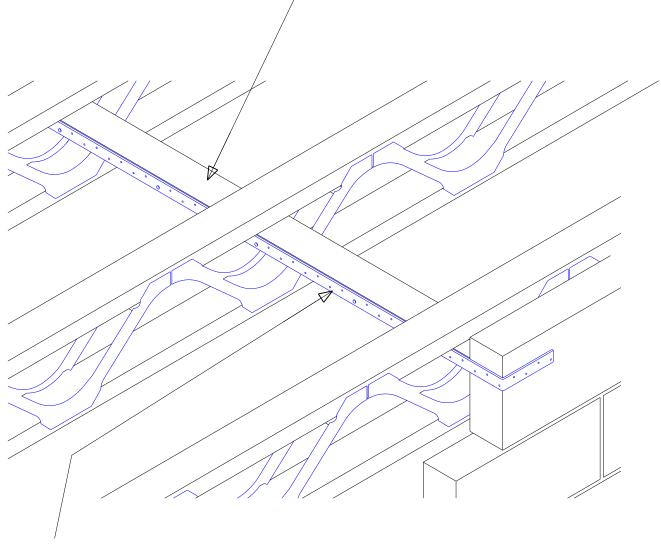


Strap fixed to noggin. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap Fixed To Noggins



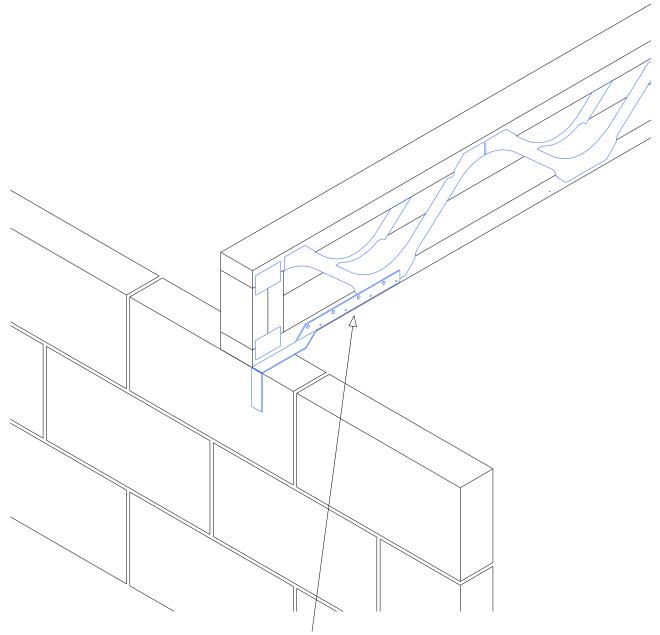
35x97 C16 Noggin nailed to underside of top chord of Posi-Joist using 3.1x75mm long galvanised annular ringshank nails.



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

Horizontal Restraint Strap Fixed to Continuous Noggin

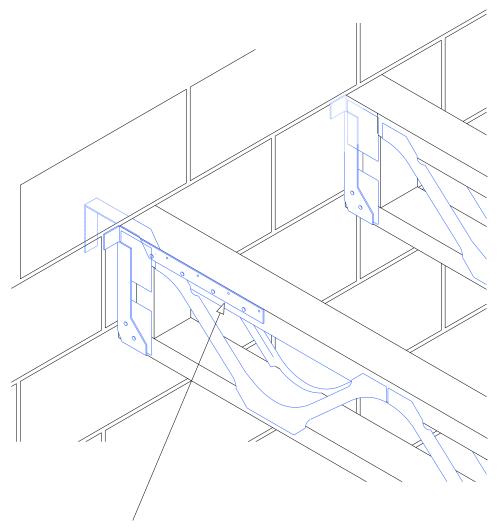




Twisted Restraint strap. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap With Perpendicular Joist Built In

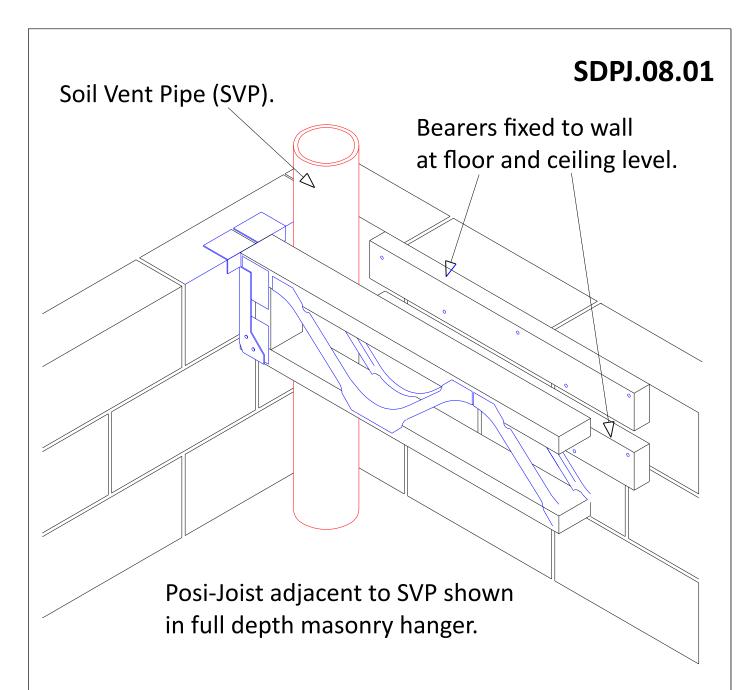




Twisted Restraint strap. Refer to strap manufacturers details for fixing method.

Horizontal Restraint Strap With Perpendicular Joist Into Hanger





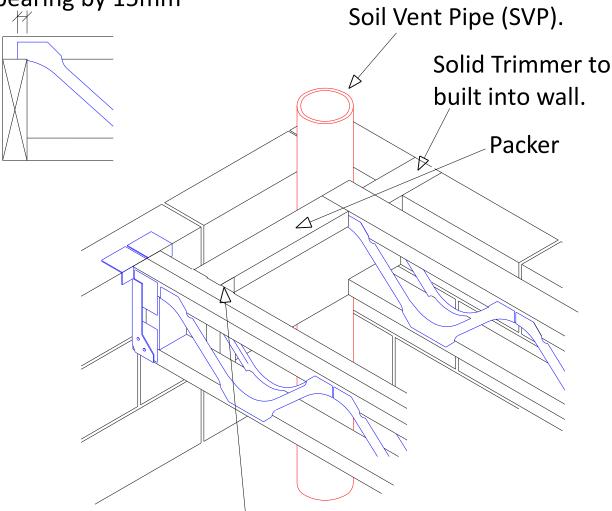
Note: This may not perform well acoustically as sound will be transmitted directly from the floor to the bearer through the inner leaf of the wall.

Fixing Round SVP using Bearer Plates



SDPJ.08.02

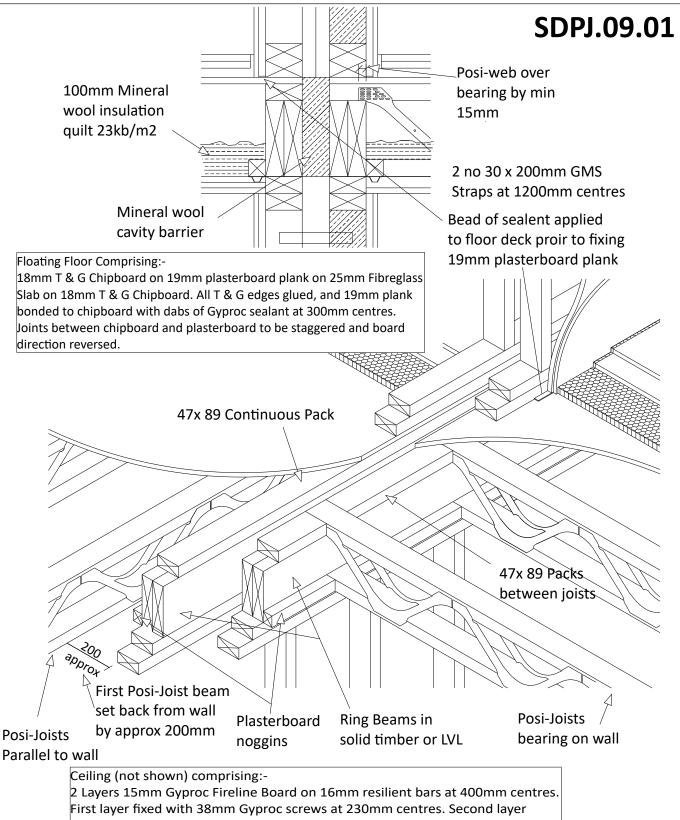
Unless proven by design the Posi-Strut should overhang the bearing by 15mm



Face Fix Joist Hanger (Solid Trimmer to Posi-Joist)

Fixing Round SVP using Solid Trimmer.

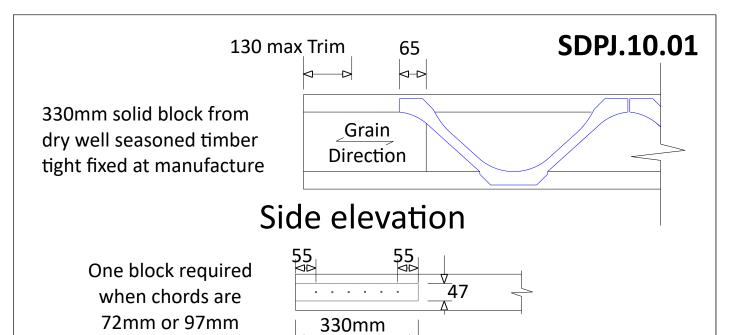




fixed with 60mm Gyproc screws at 230mm centres. Staggered with first layer screws. Lay Firleline board in echelon pattern with staggered joints.

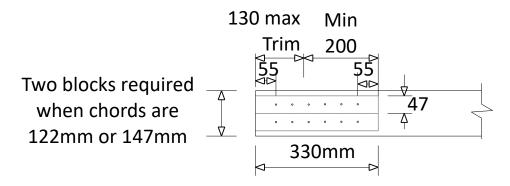
Typical Timber Frame Compartment Floor/Party Wall Detail





For 72 or 97 wide Posi joists insert one trimmable block secured with 6 no. 3.1×90 long power driven annular ring-shank or 3.3×98 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.

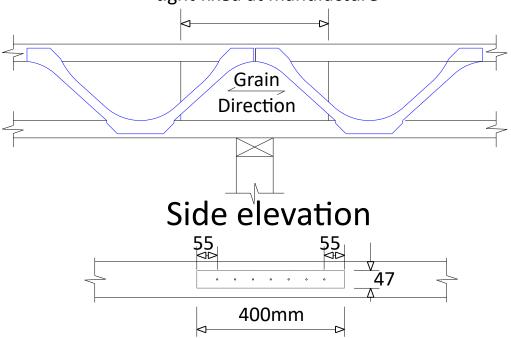
Plan view of Posi-Joist with two blocks

Site Trimmable Block End Support Detail



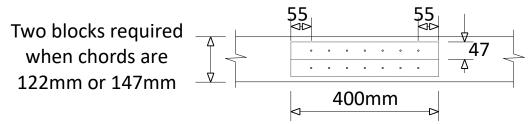
SDPJ.10.02

400mm solid block from dry well seasoned timber tight fixed at manufacture



For 72 or 97 wide Posi joists insert one block secured with 7 no. 3.1×90 long power driven annular ring-shank or 3.3×98 long power driven screw-shank nails into the top and 7 into the bottom at 48mm centres.

Plan view of Posi-Joist with one block



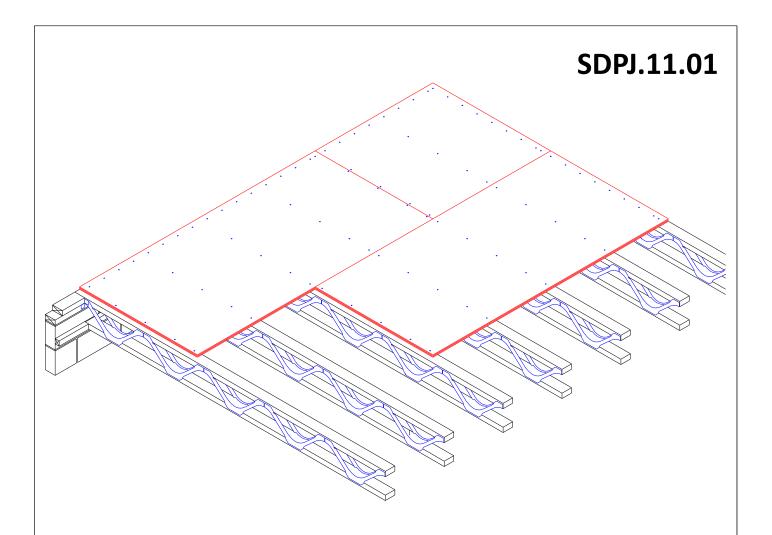
For 122 or 147 wide Posi joists insert two blocks secured with 14 no. 3.1×90 long power driven annular ring-shank or 3.3×98 long power driven screw-shank nails into the top and 14 into the bottom at 48mm centres.

Plan view of Posi-Joist with two blocks

Note: The Third Bearing / Internal Block Nailing assumes a min. 400mm long block. It is permissable to use a block minimum 330mm long and the nailing detail for the trimmable ends should be followed in that situation.

Internal Blocked Support Detail





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

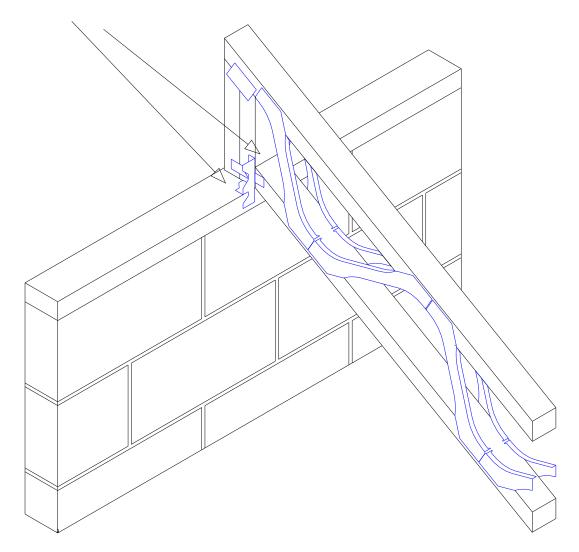


Boards should be glued and Fixed down to the joists using suitable fixings and MiTek JOIST-IK glue or similar approved adhesive.

Tongue and Groove Boards



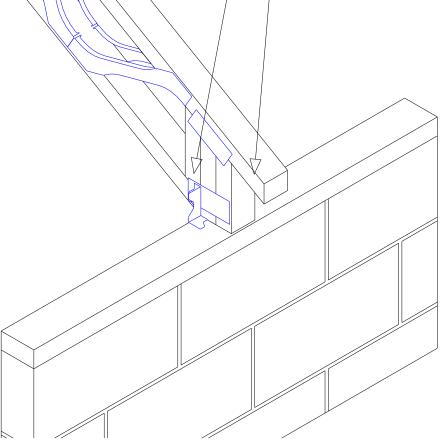
Framing anchors, 2no per connection.



Flatwise Posi-Rafters to Wallplate at Apex



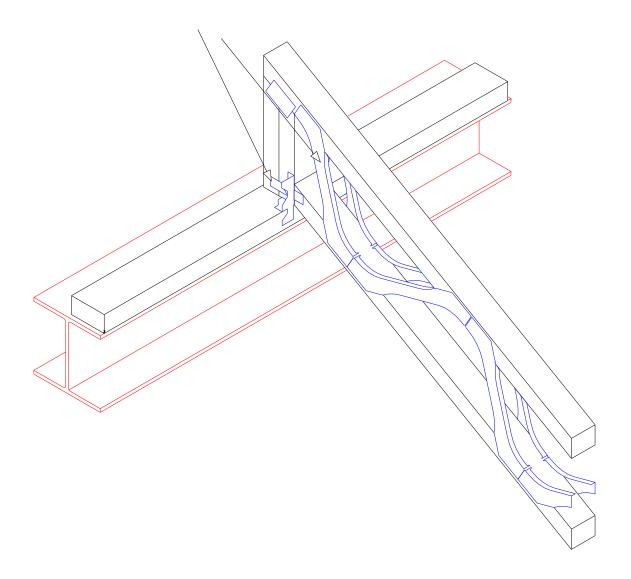
Framing anchors, 2no per connection.



Flatwise Posi-Rafters to Wallplate at Eaves

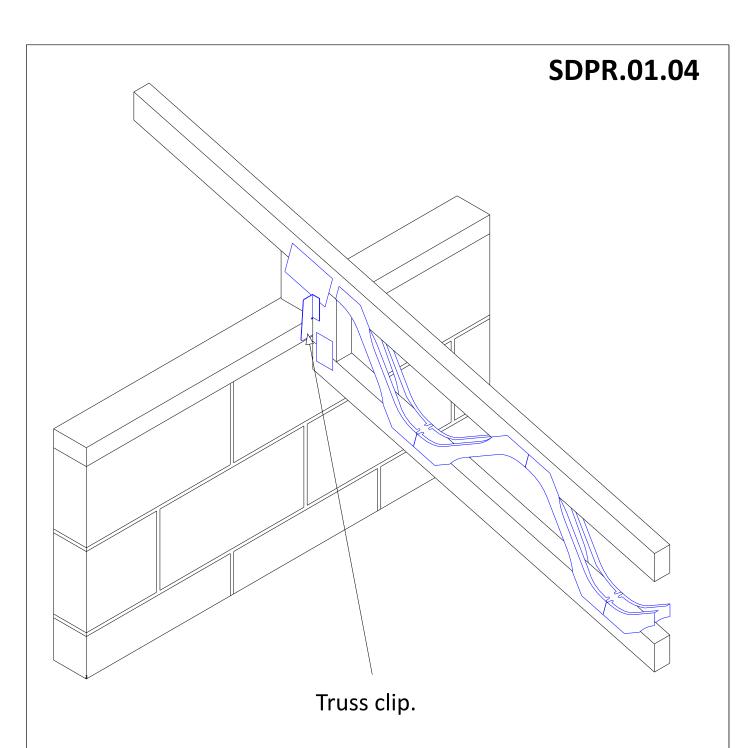


Framing anchors, 2no per connection.



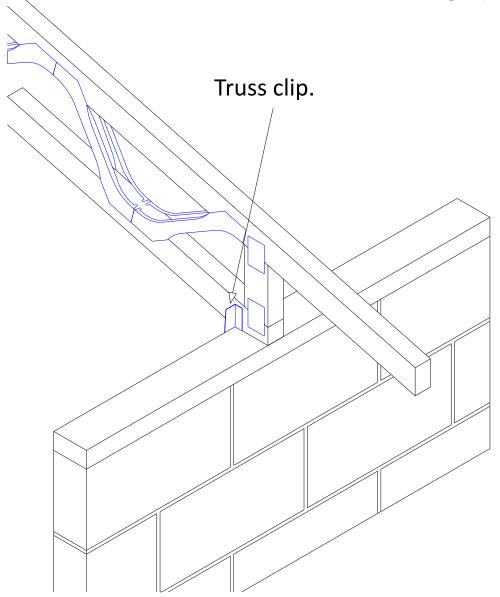
Flatwise Posi-Rafters to Steel at Apex





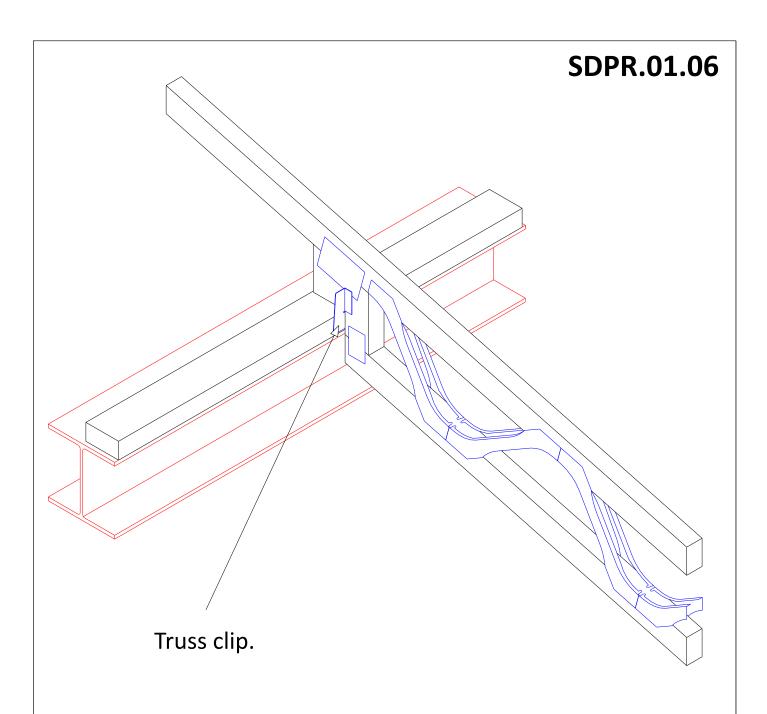
Edgewise Posi-Rafters to Wallplate at Apex





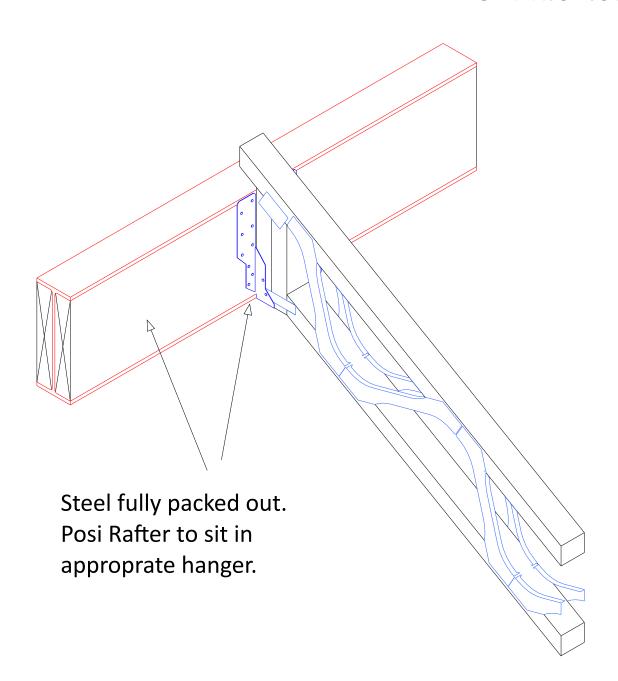
Edgewise Posi-Rafters to Wallplate at Eaves





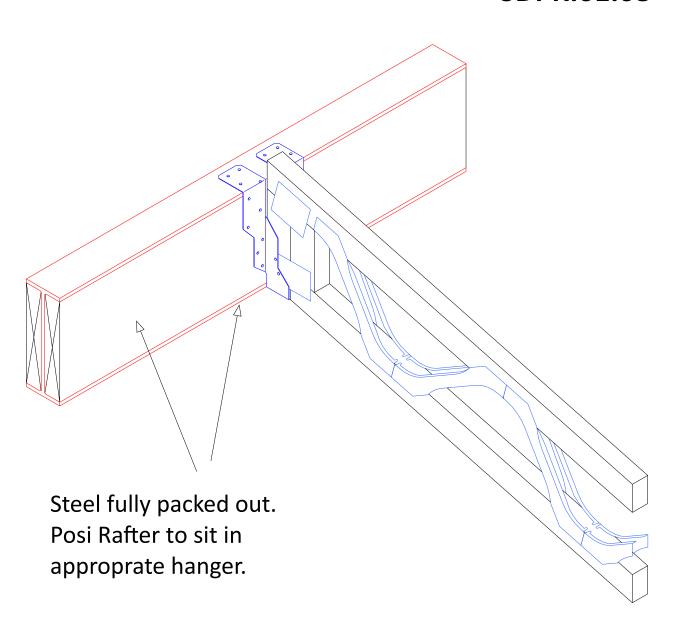
Edgewise Posi-Rafters to Steel at Apex





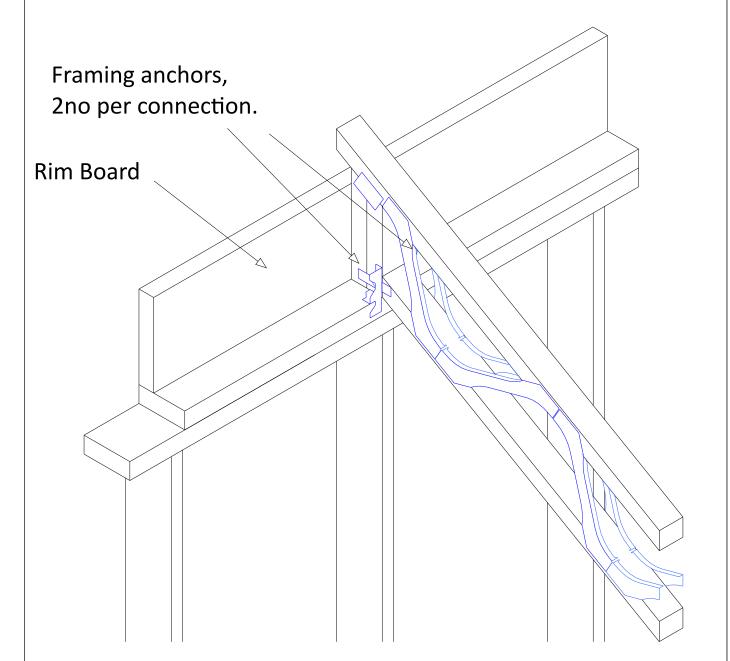
Flatwise Posi-Rafters to Steel at Apex





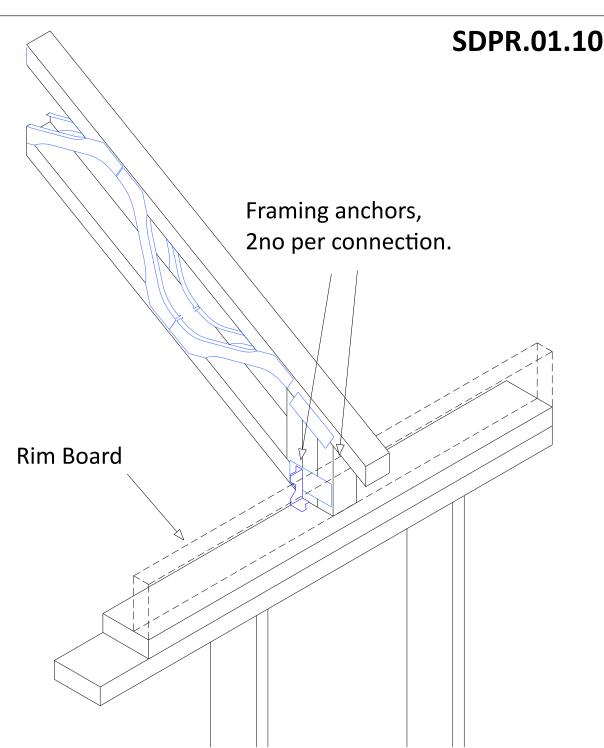
Edgewise Posi-Rafters to Steel at Apex





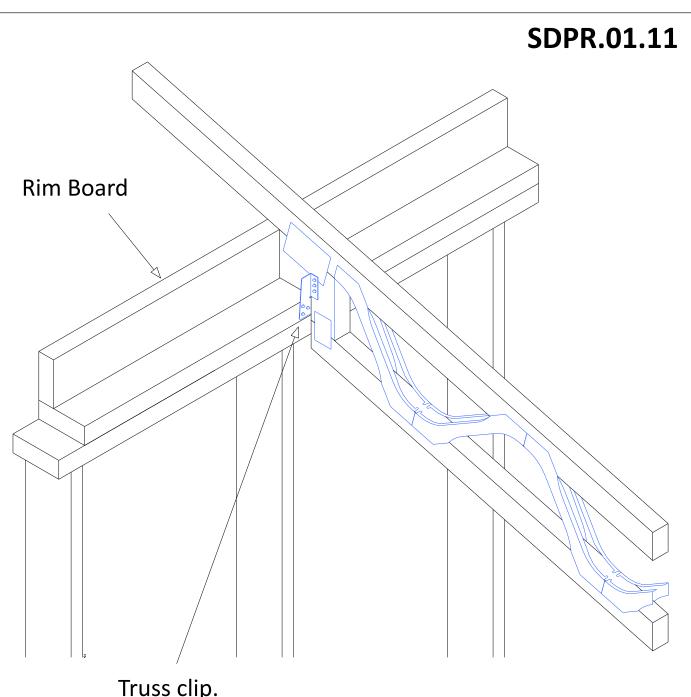
Flatwise Posi-Rafters to Wallplate at Apex (Timber Frame)





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

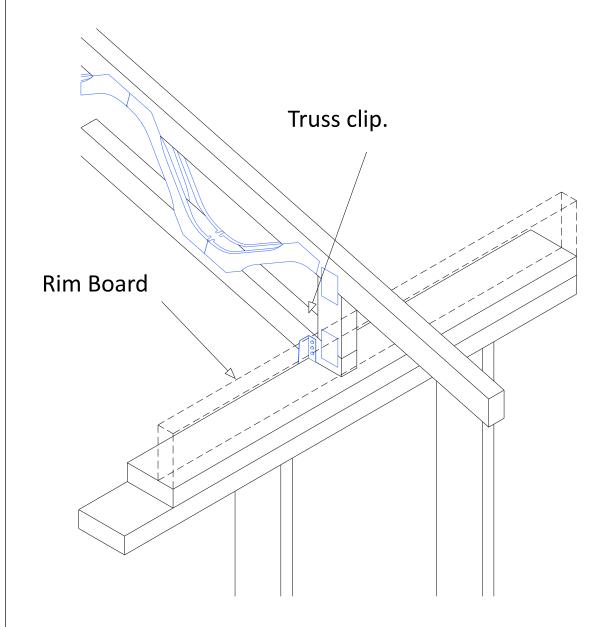




Truss clip.

Edgewise Posi-Rafters to Wallplate at Apex

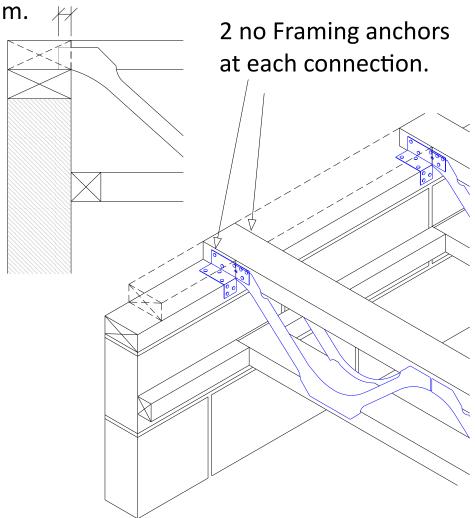




Edgewise Posi-Rafters to Wallplate at Eaves

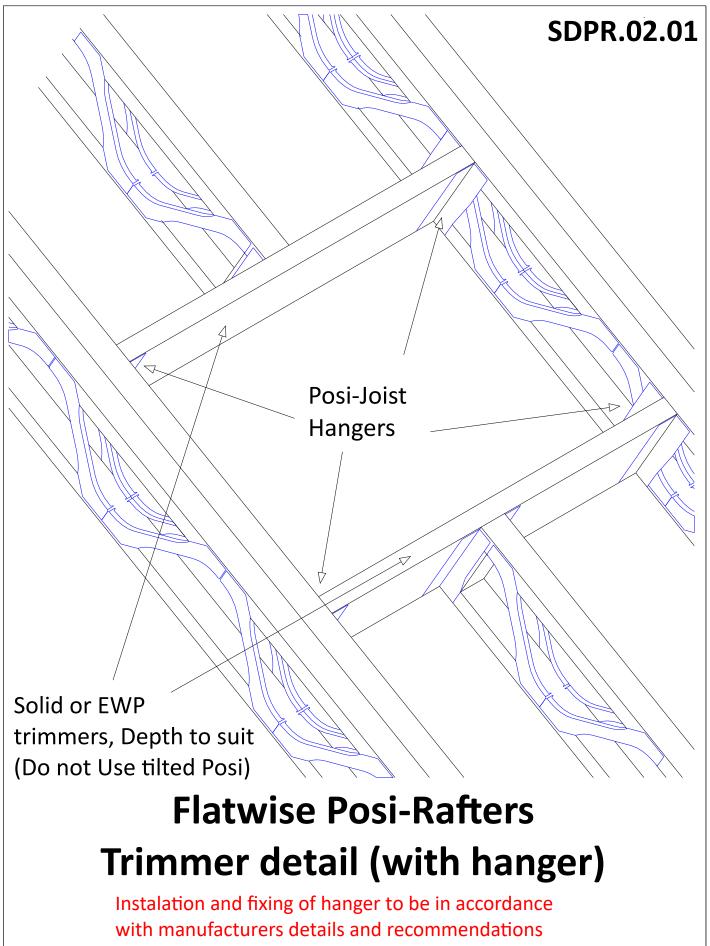


Unless proven by design the Posi-Strut should overhang the bearing by 15mm.

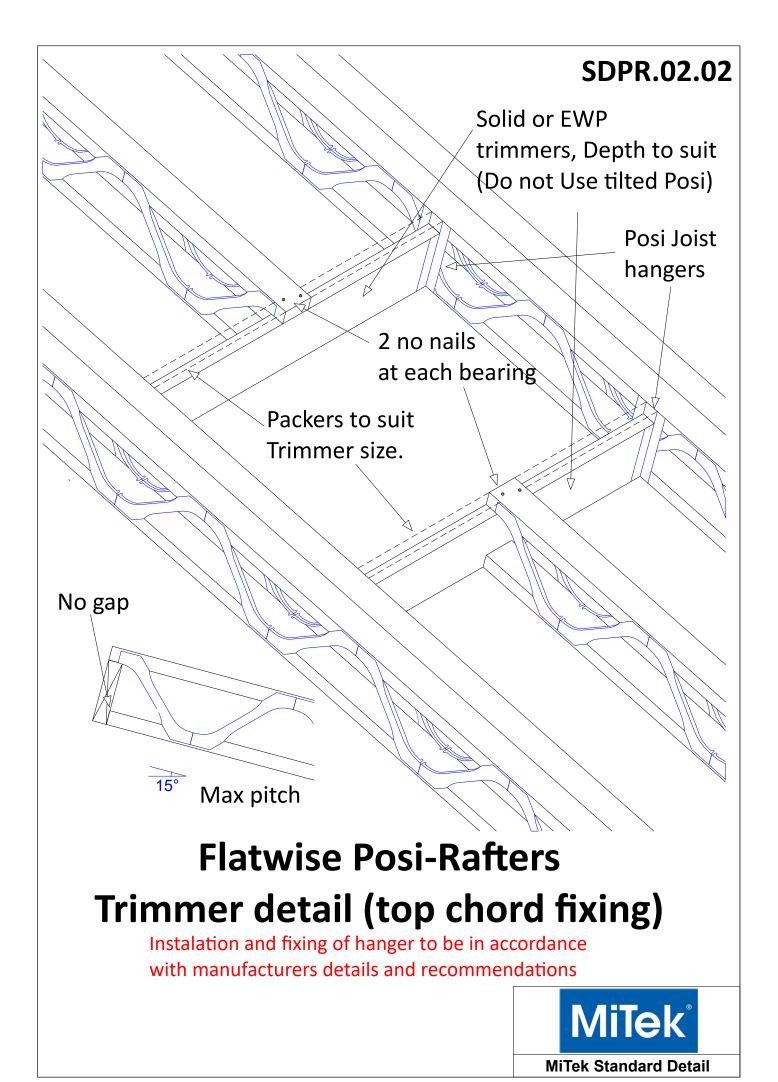


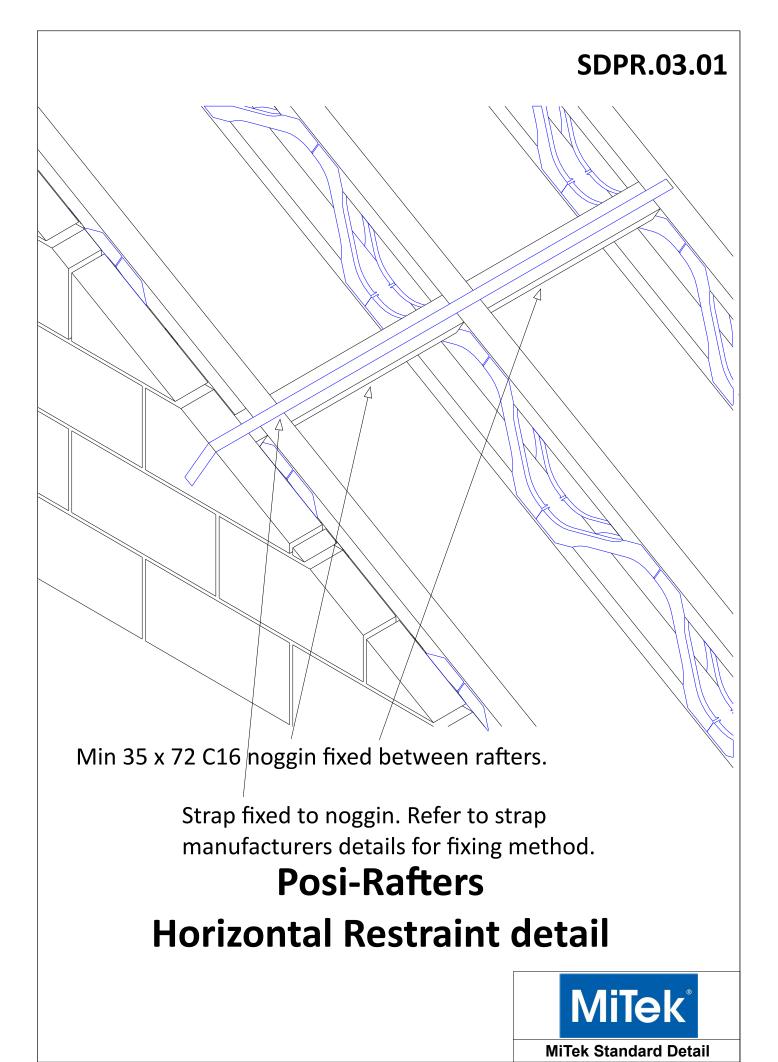
Flat roof Joist Top Chord Support

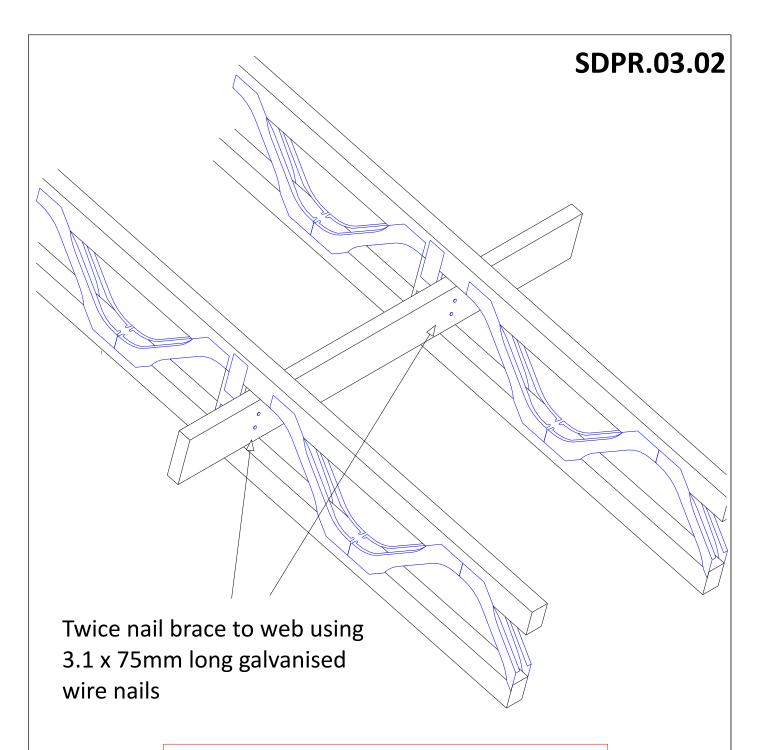




MiTek Standard Detail







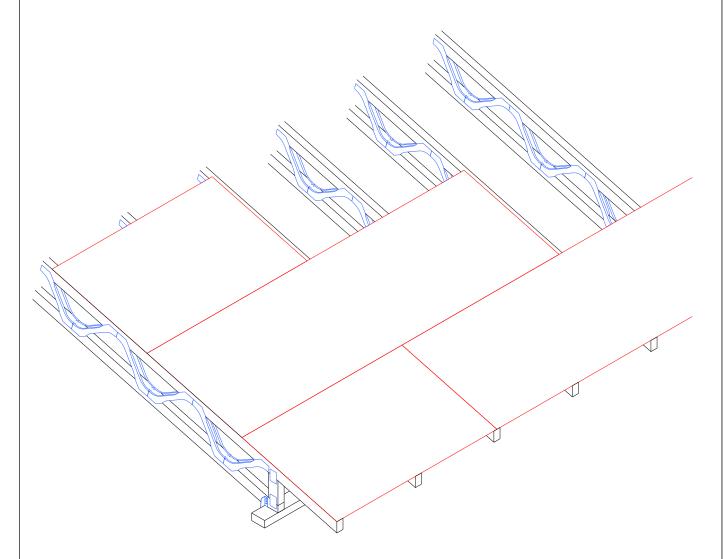
INSERT STRONGBACK THROUGH POSI - JOISTS
BEFORE FIXING AS IT CANNOT BE
INSTALLED AFTER THEY HAVE BEEN FIXED.

Mid Span Longitudinal Brace Fixed To Built In Vertical Webs

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



SDPR.04.01



Start at bottom left with toungue facing up slope. Stagger joints verticaly. Secury with fixing details as recommended by the sheathing material supplier

Posi Rafter Sarking

