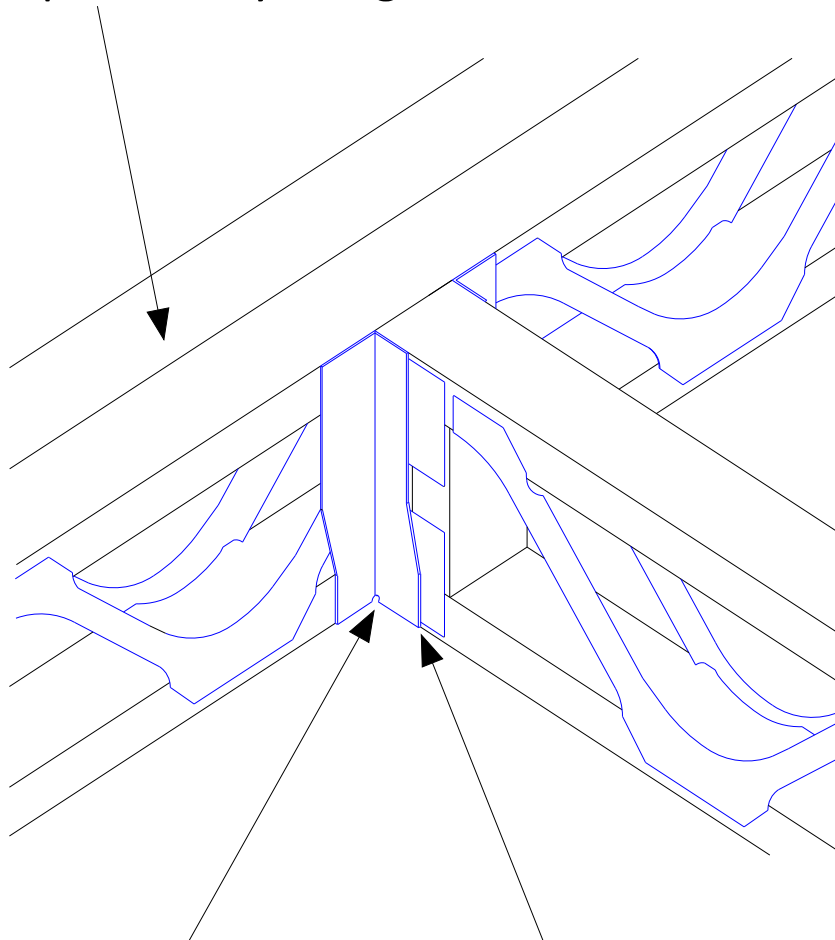


Posi-Joist girder chords fixed together as specified by design



Posi-Joist
Hanger

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

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

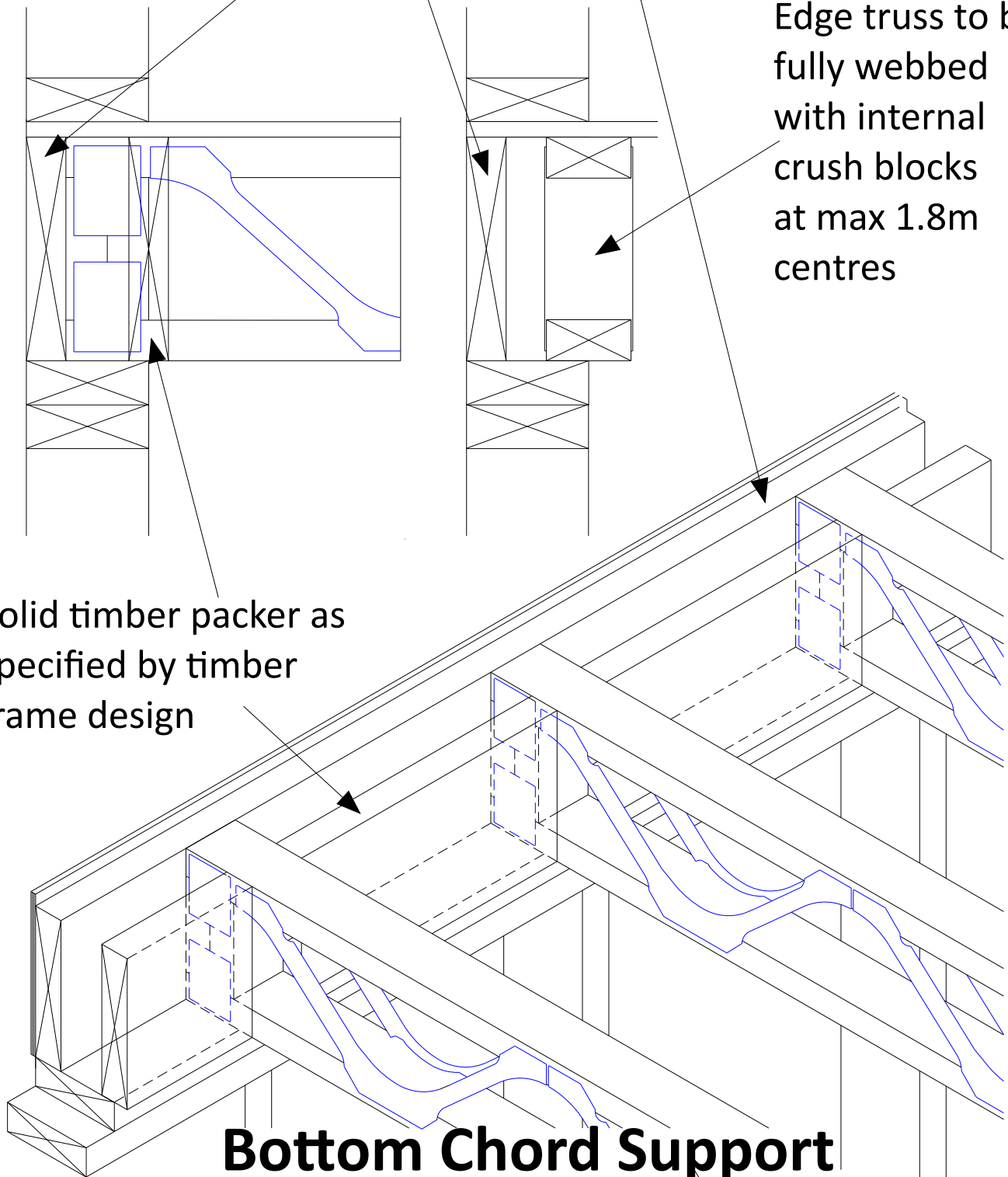
Posi-Joist To Girder Detail

SDPJ.01.02

Solid or engineered timber rim board with depth to suit

Edge truss to be fully webbed with internal crush blocks at max 1.8m centres

Solid timber packer as specified by timber frame design



Bottom Chord Support Timber Frame External (With Rim Board And Packer)

MiTek[®]



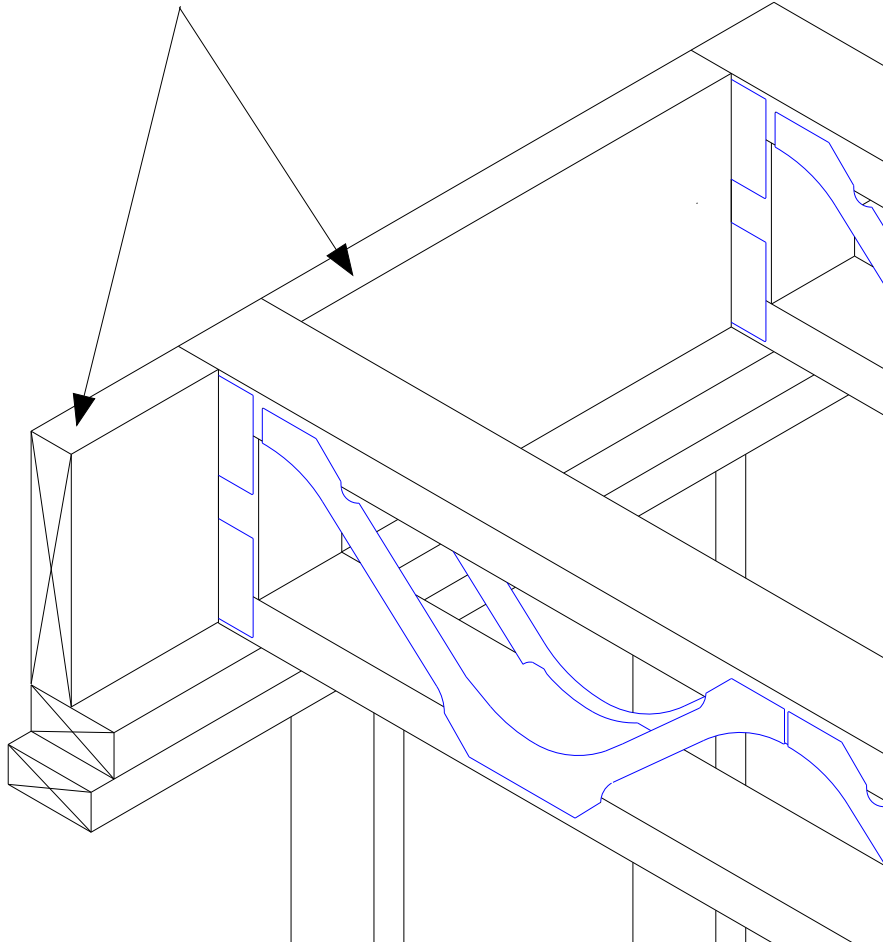
HETS

HAMPSHIRE
ENGINEERED TIMBER SOLUTIONS LTD

HETS / MiTek Standard Detail

SDPJ.01.03

Full depth chord restraint
blocking fixed between
Posi-Joists



Bottom Chord Support Timber Frame (With Restraint Blocking)

MiTek[®]



SDPJ.01.04

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

2 no nails
at each bearing

Packing piece to suit
Posi-Joist Top Chord
flange depth and ring
beam width

Ring beam to
suit Posi-Joist depth.

Continuous
plasterboard
runner

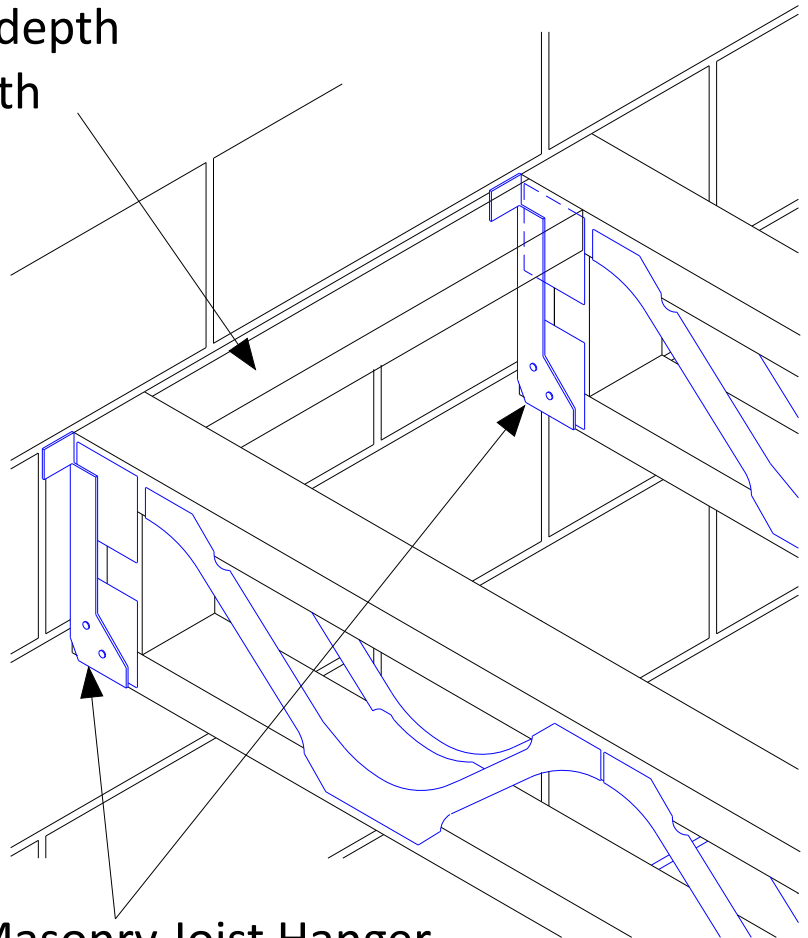
Gap between end of
Bottom Chord of Posi-Joist
and plasterboard runner

Top Chord Support Timber Frame Internal or External



Noggin between Posi-Joists for decking perimeter support or top top restraint if hanger depth is less than $0.75 \times$ 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

MiTek[®]

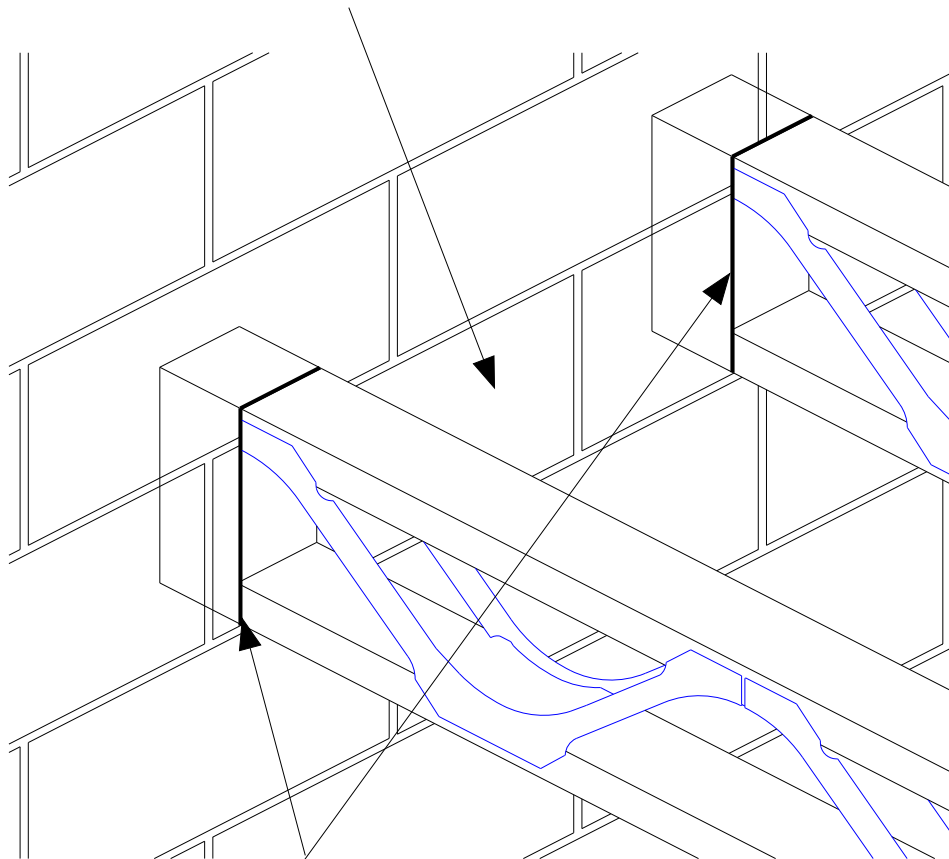


HETS

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ENGINEERED TIMBER SOLUTIONS LTD

HETS / MiTek Standard Detail

Blockwork to continue
between joists to
provide restraint



Fully flexible sealant to
provide air tightness

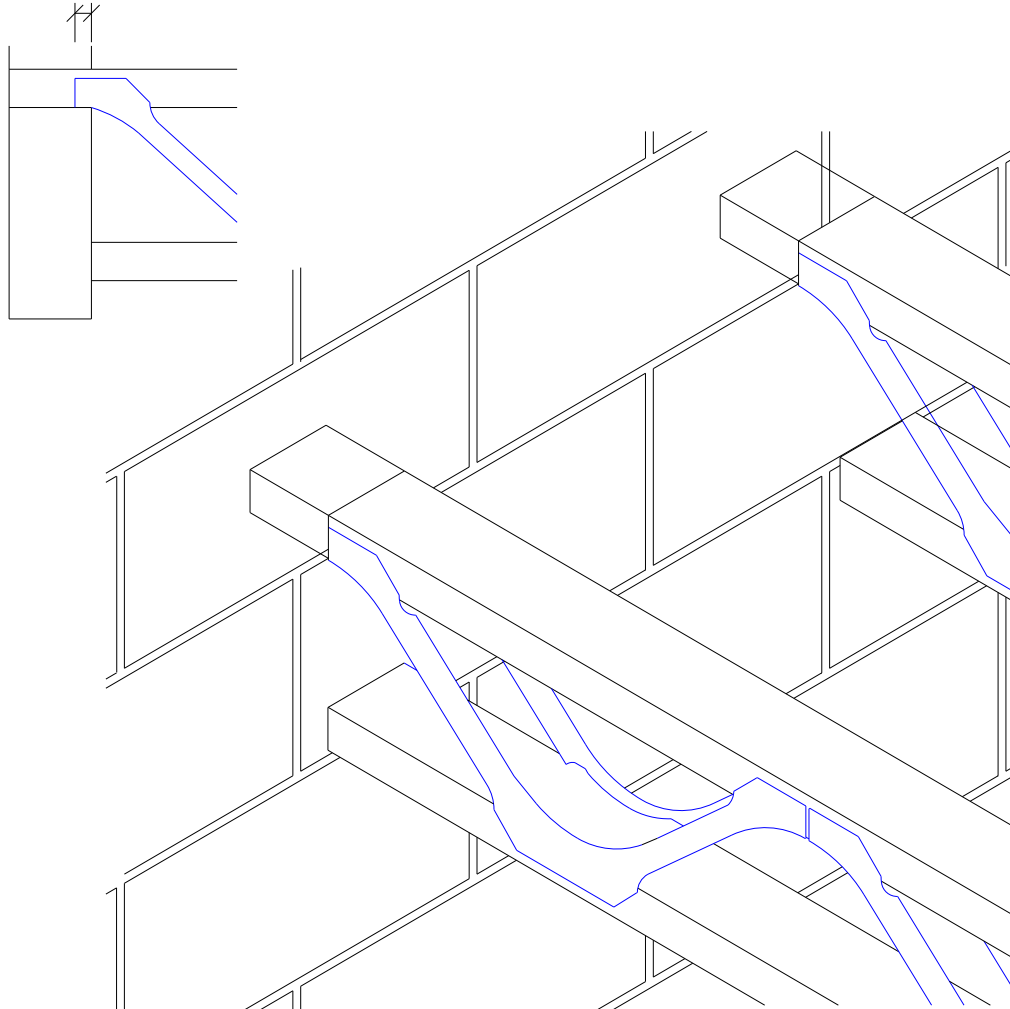
Note:

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



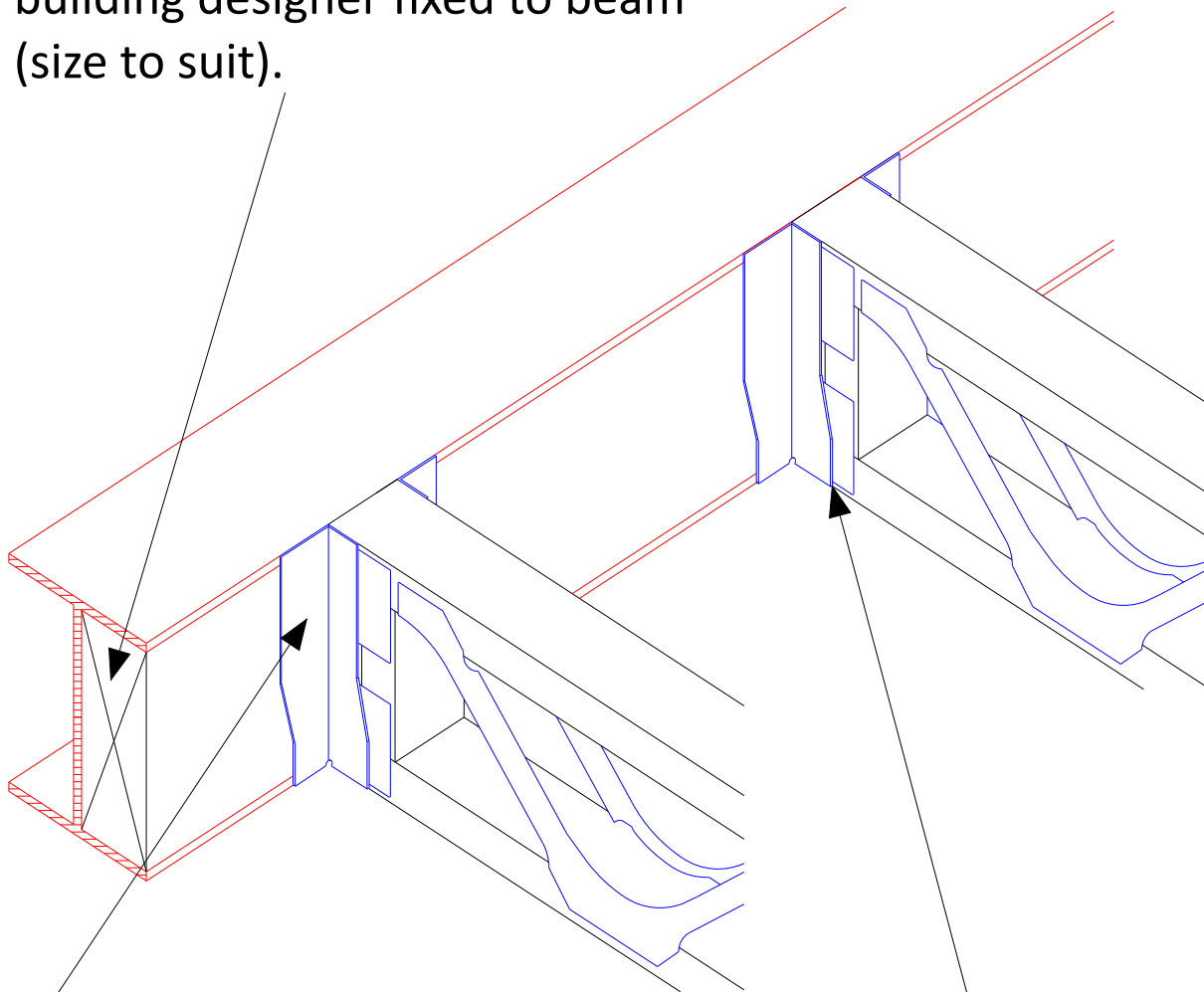
Note:

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

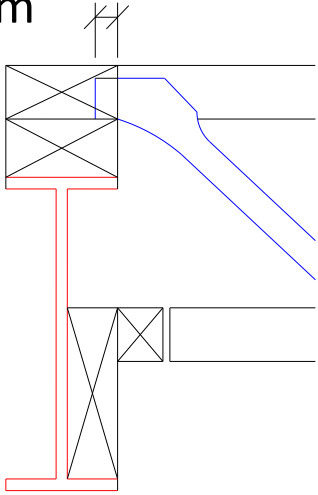
Do not notch bottom chord
of Posi-Joist over bottom
flange of hanger

Bottom Chord Support to Steel Beam

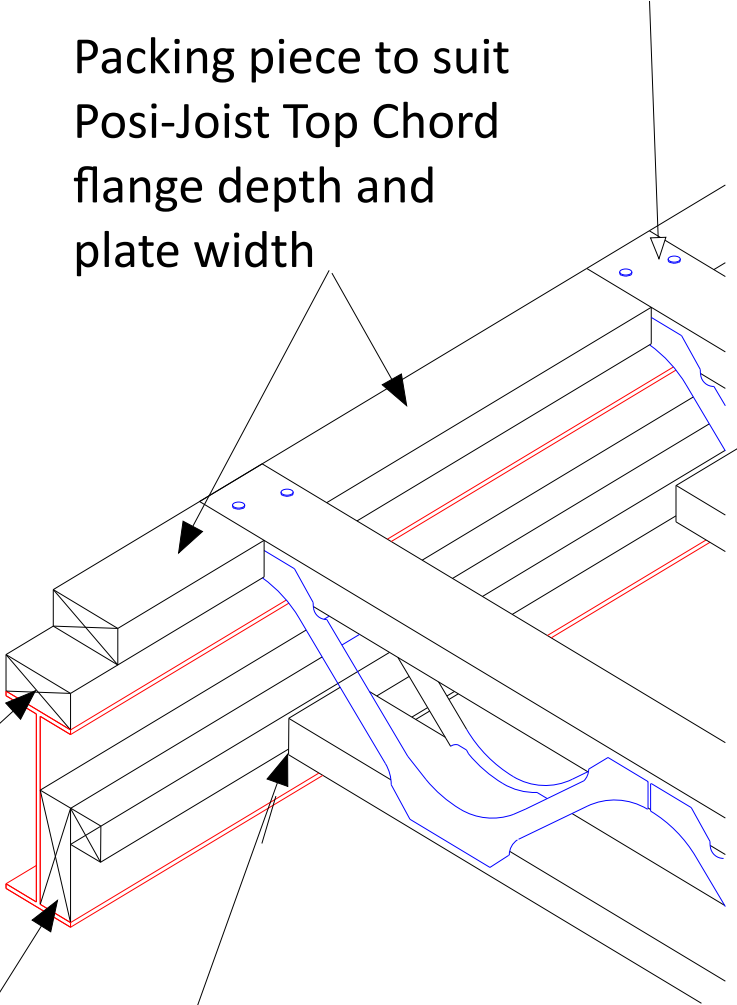
SDPJ.01.09

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

2 no nails
at each bearing



Packing piece to suit
Posi-Joist Top Chord
flange depth and
plate width



Timber plate fixed
to top of steel

Timber pack fixed to
beam (size to suit)

Gap between end of
Bottom Chord of Posi-Joist
and plasterboard runner

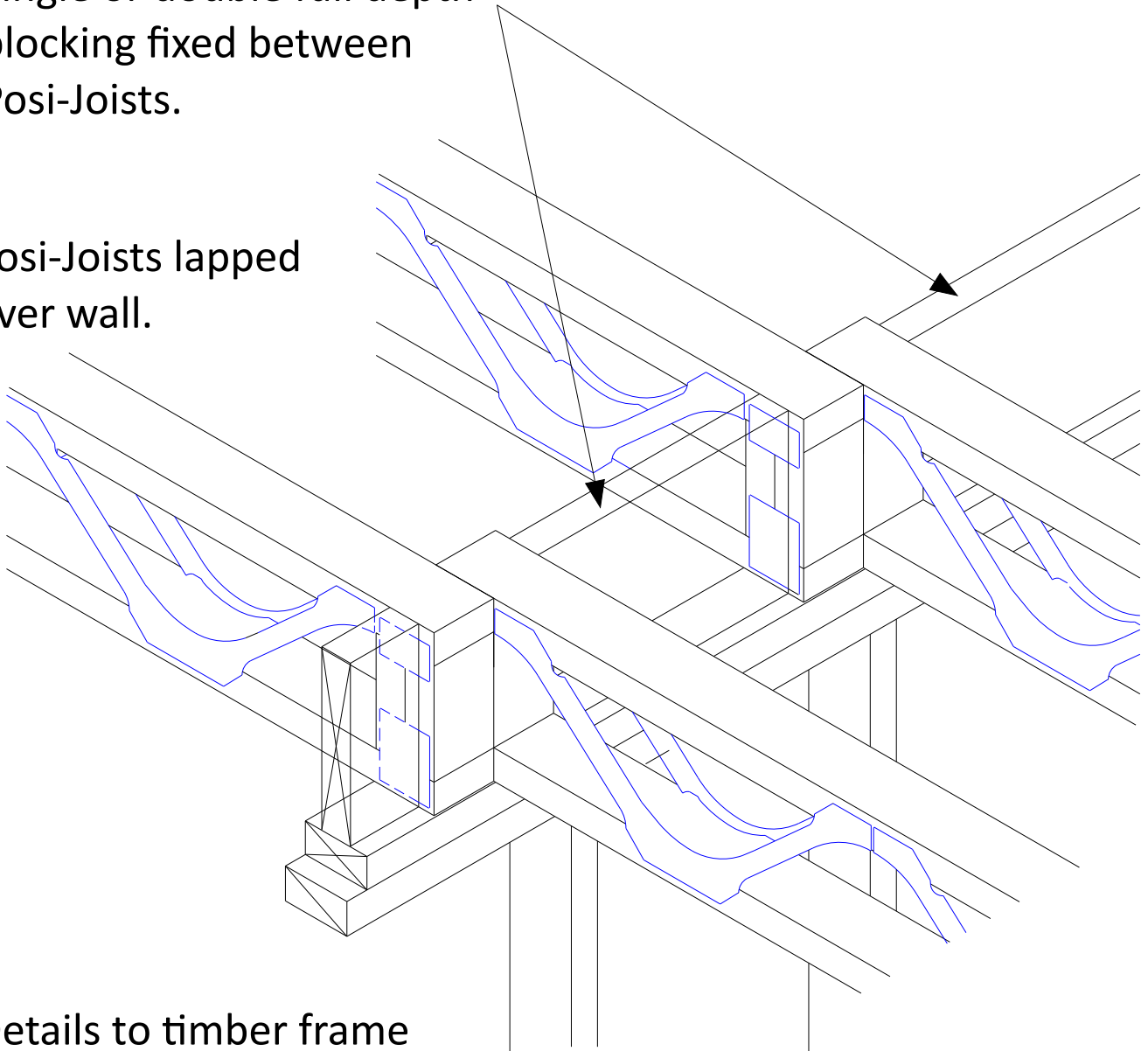
Top Chord Support Fixing To Downstand Steel Beam



SDPJ.02.01

Single or double full depth
blocking fixed between
Posi-Joists.

Posi-Joists lapped
over wall.



Details to timber frame
designers spec

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

MiTek[®]

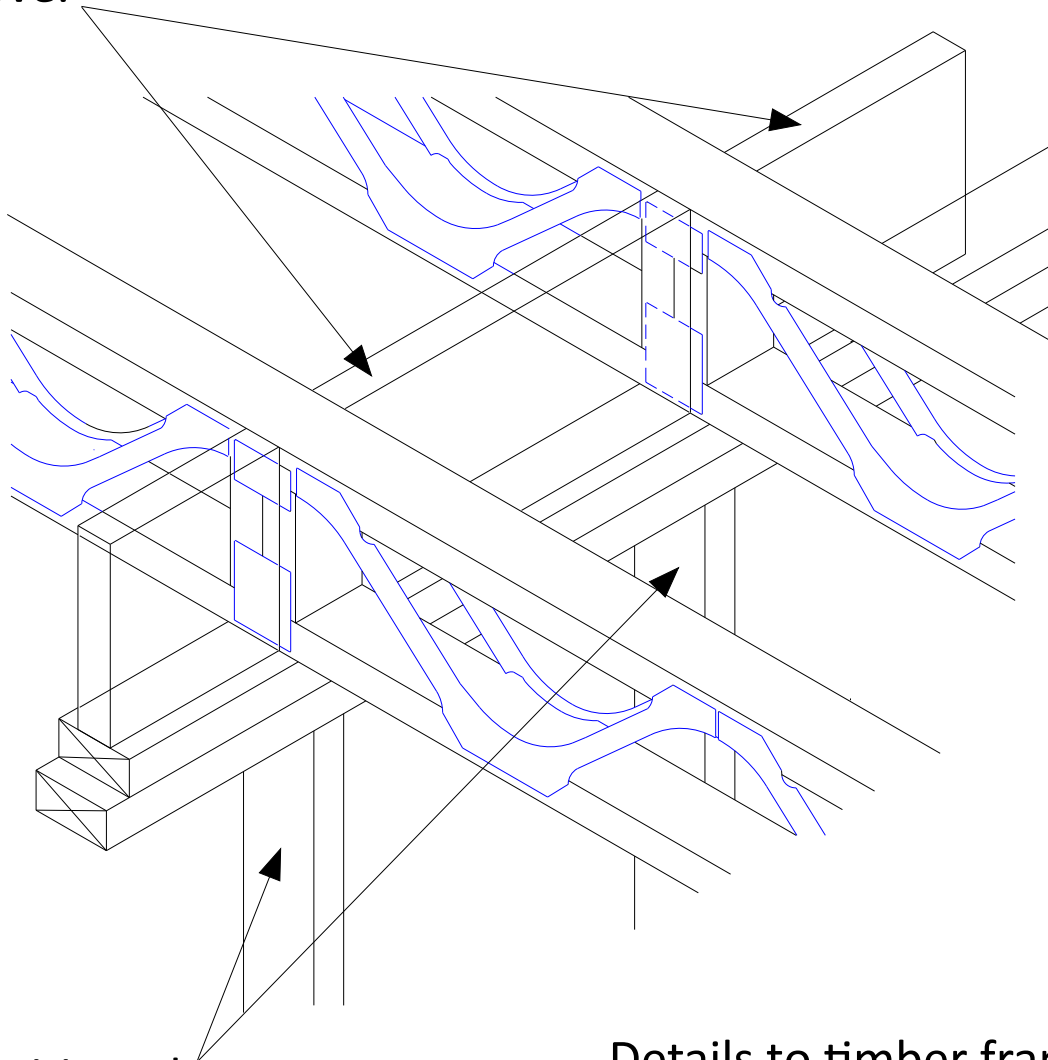


HETS

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HETS / MiTek Standard Detail

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



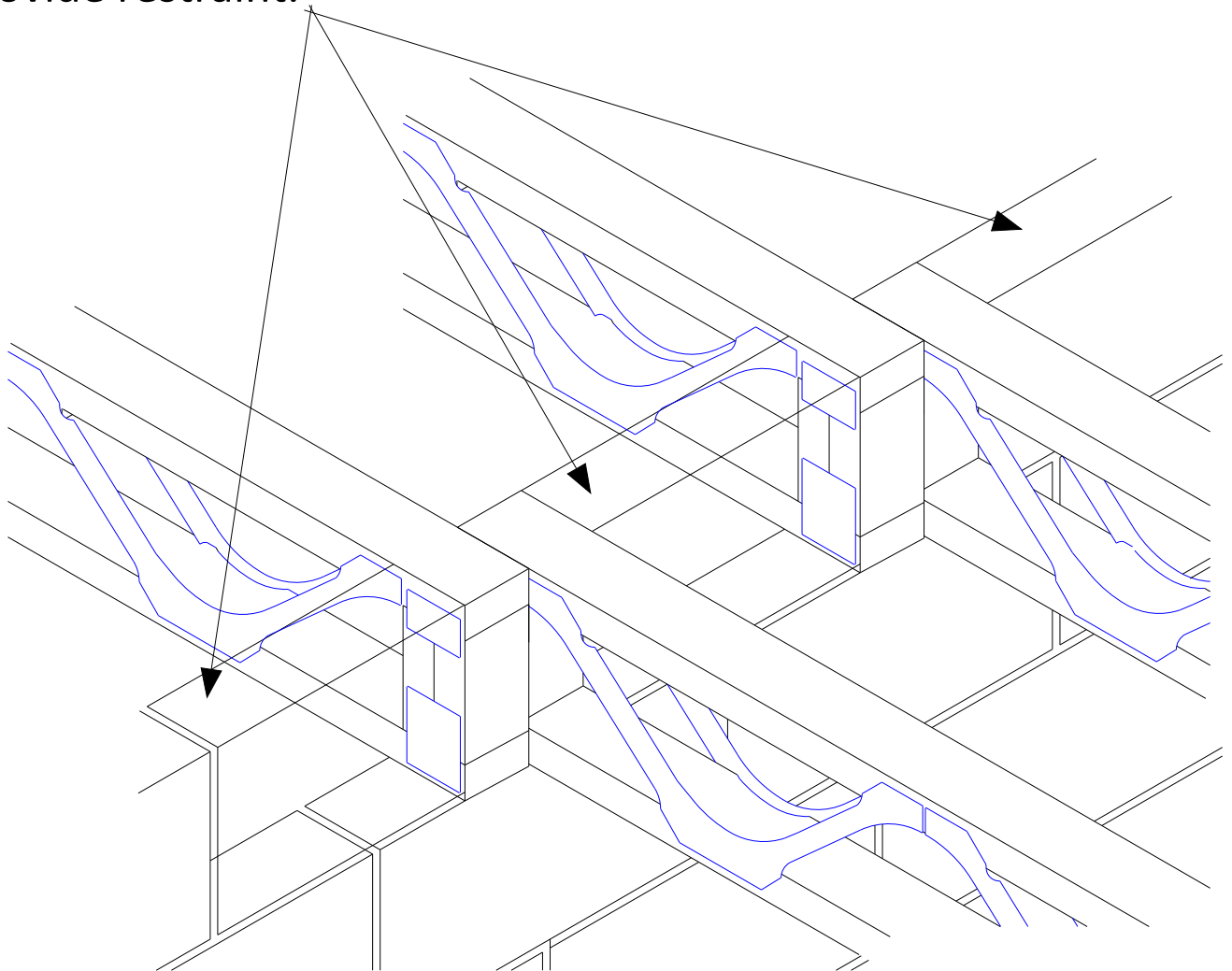
Studs positioned beneath Posi-Joists.

Details to timber frame designers spec

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



Masonry built up to underside of floor to provide restraint.

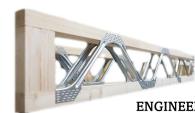


Posi-Joists lapped over wall.

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

Bottom Chord Support Internal Masonry Lapped

MiTek[®]

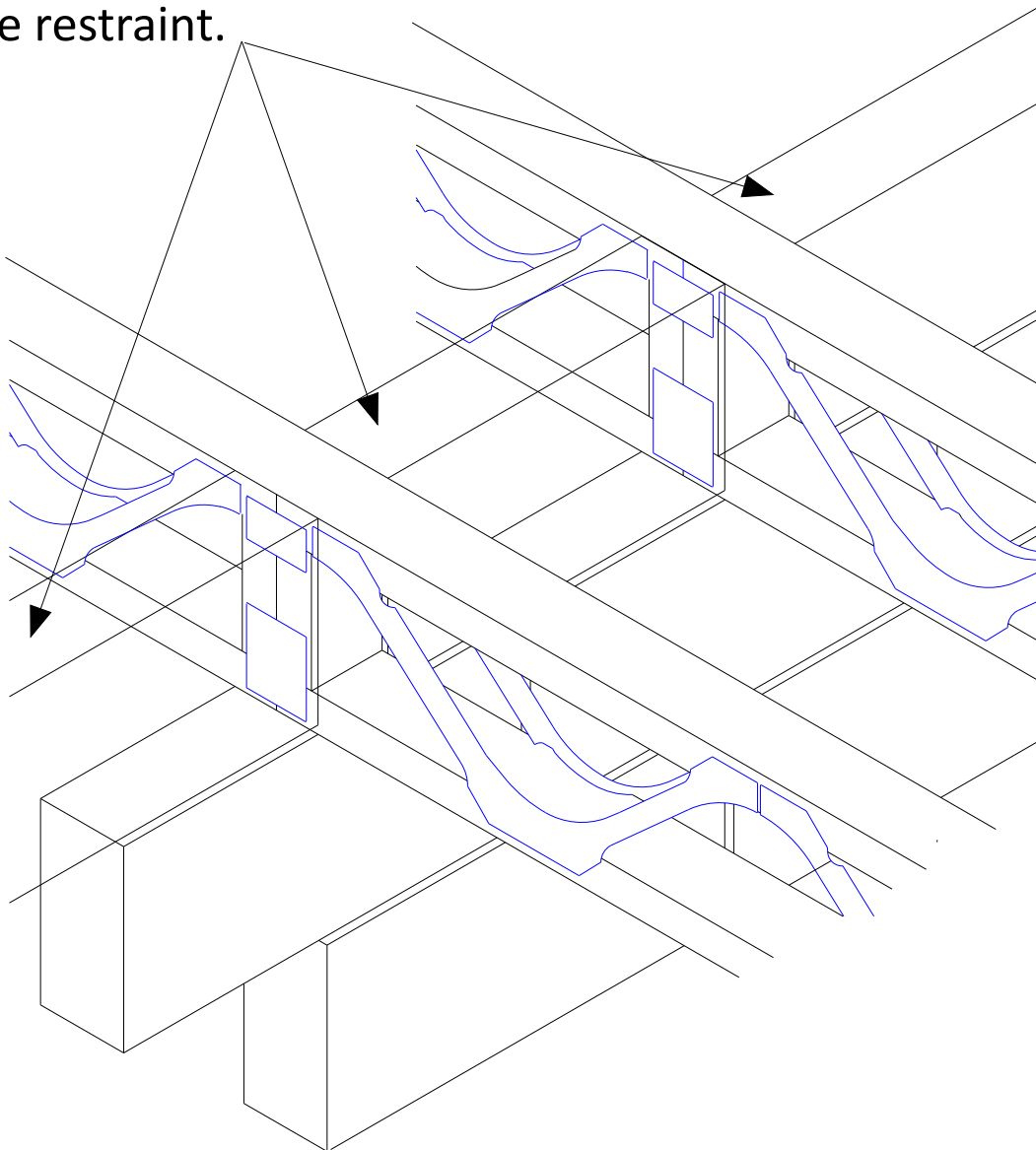


HETS

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ENGINEERED TIMBER SOLUTIONS LTD

HETS / MiTek Standard Detail

Masonry built up to underside of floor to provide restraint.



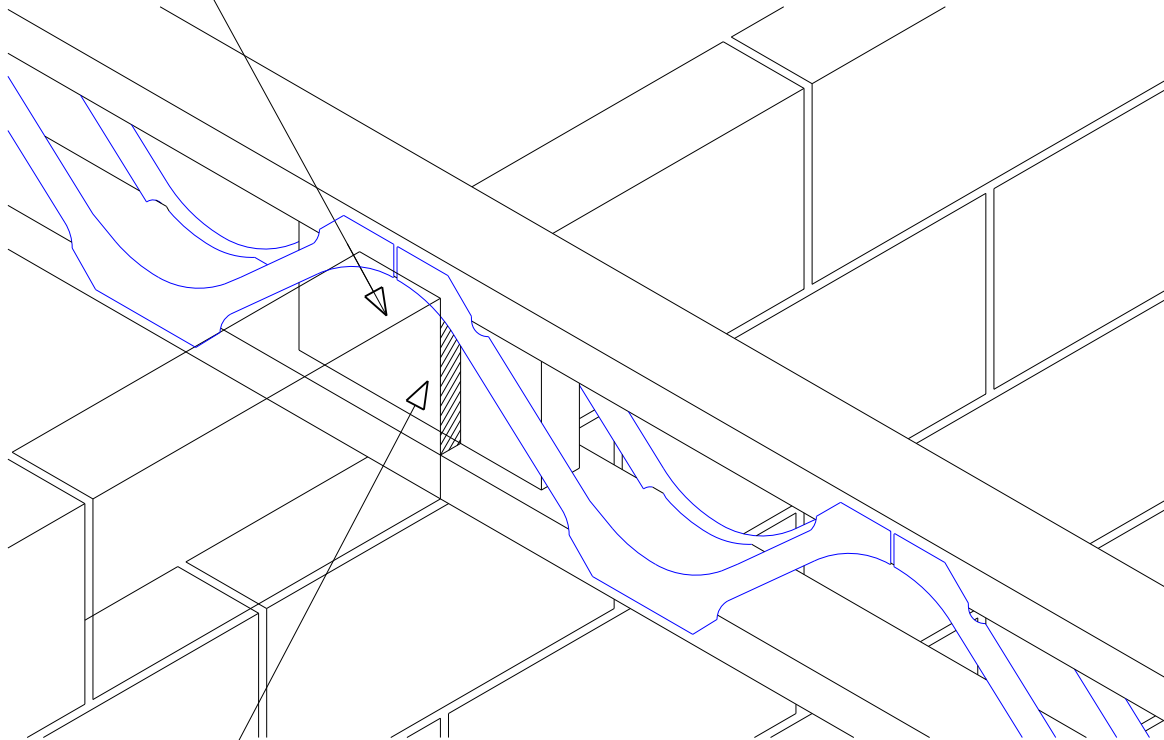
Note: Minimum 45mm Bearing Required If Posi-Joist split on centre of wall.

Bottom Chord Support Internal Masonry Continuous or Butting Ends.

MiTek[®]



Solid timber block over bearing with grain parallel to span.



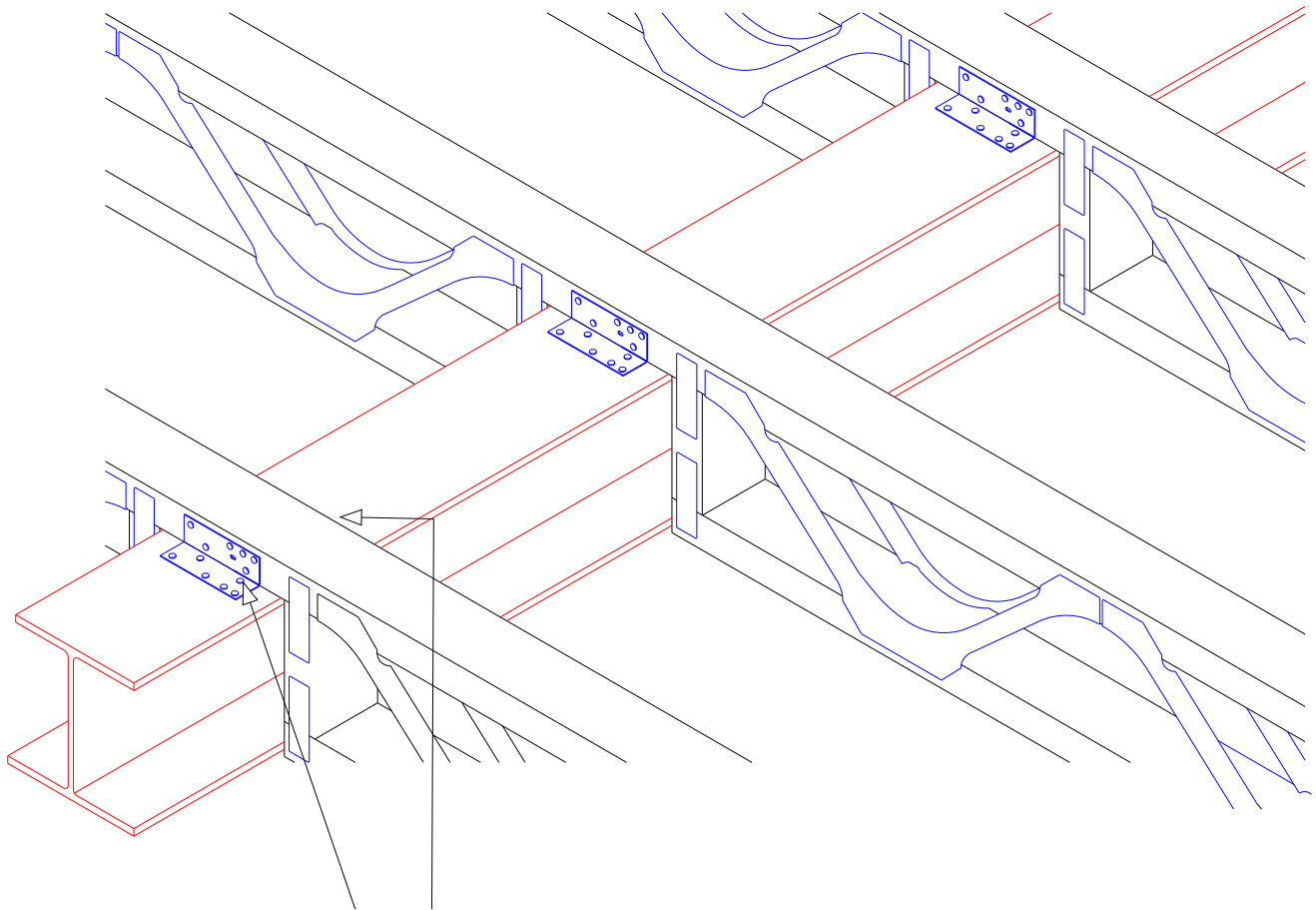
Gap to be filled to provide air tightness.

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

Bottom Chord Support Internal Masonry Continuous Joist with solid timber block

MiTek[®]



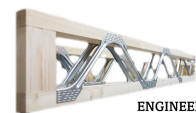


2 no Framing anchors
at each connection.
Fixed to beam by others.

Posi Joist Straddled over Steel with pocket

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

MiTek[®]



HETS

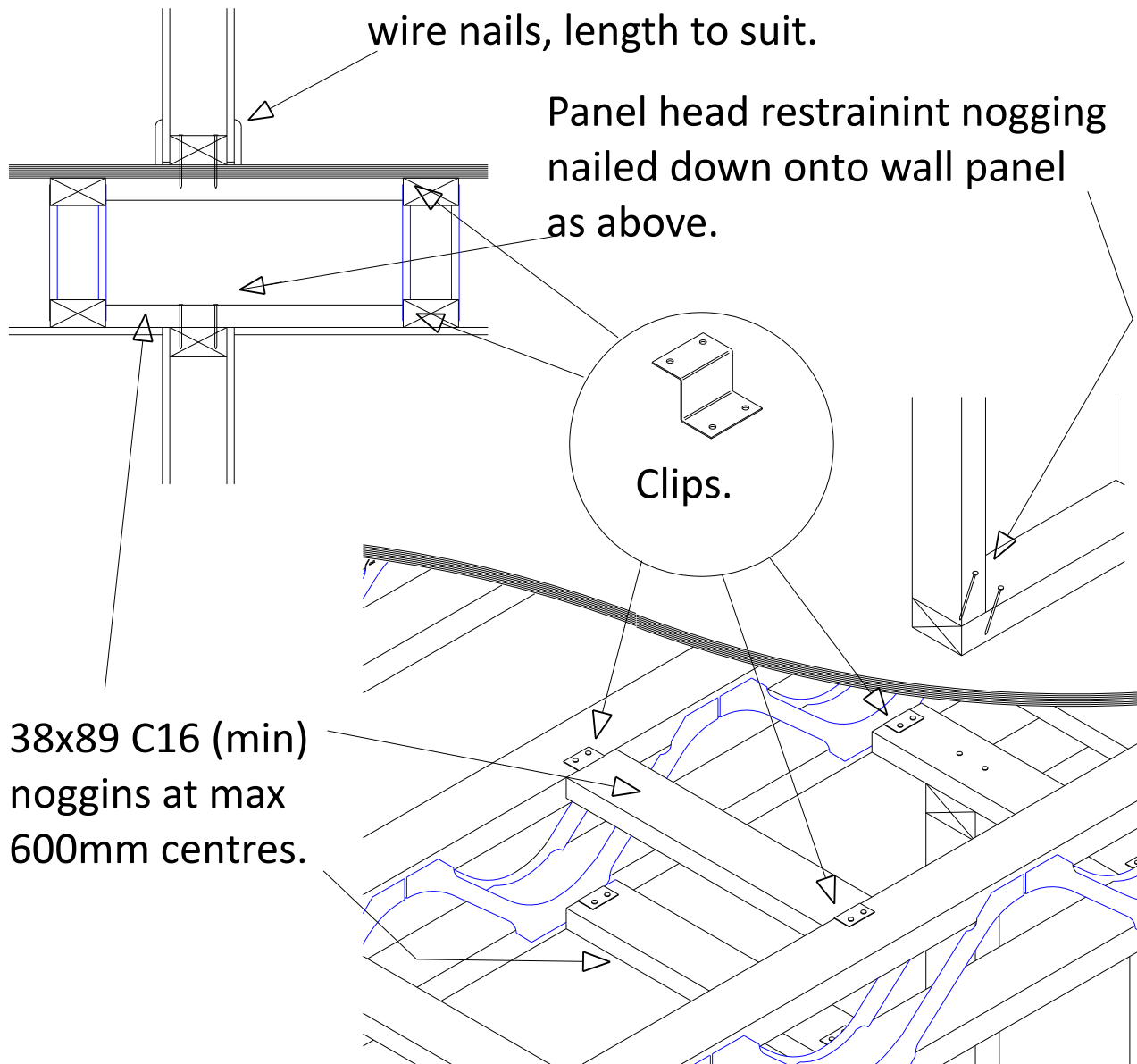
HAMPSHIRE
ENGINEERED TIMBER SOLUTIONS LTD

HETS / MiTek Standard Detail

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 restraint nogging nailed down onto wall panel as above.



38x89 C16 (min)
noggin at max
600mm centres.

Non-Loadbearing Wall Parallel with Posi-Joists.

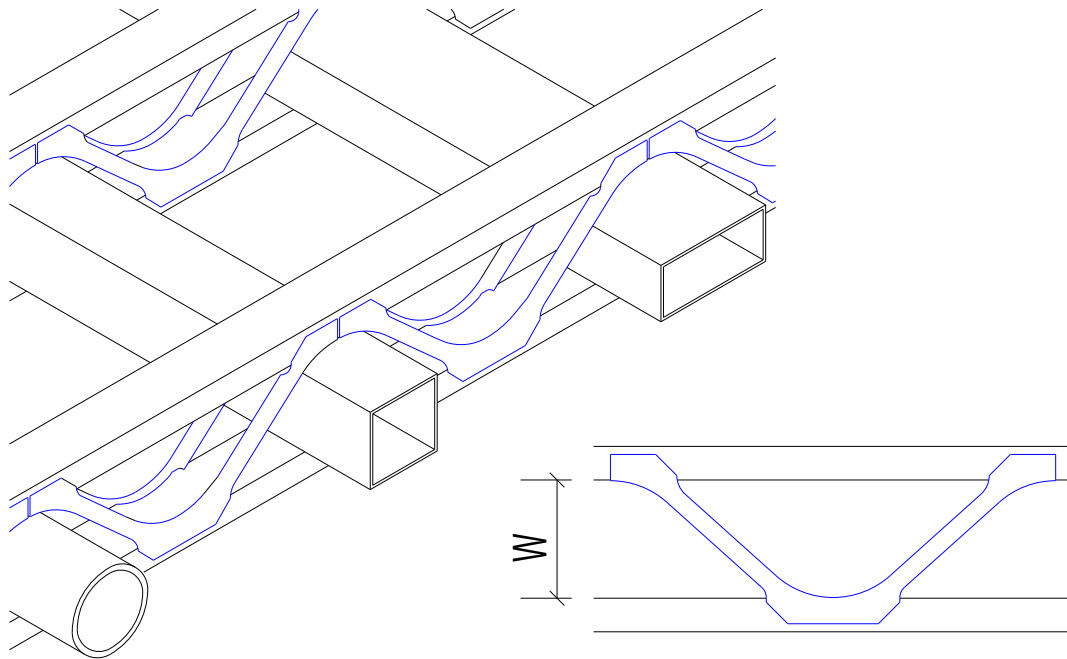
MiTek[®]



HETS

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HETS / MiTek Standard Detail



POSI JOIST SIZE	W	CIRCLE DIA	SQUARE	RECTANGLE DEPTH										
				50	75	100	125	150	175	200	225	250	275	300
				RECTANGLE WIDTH										
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

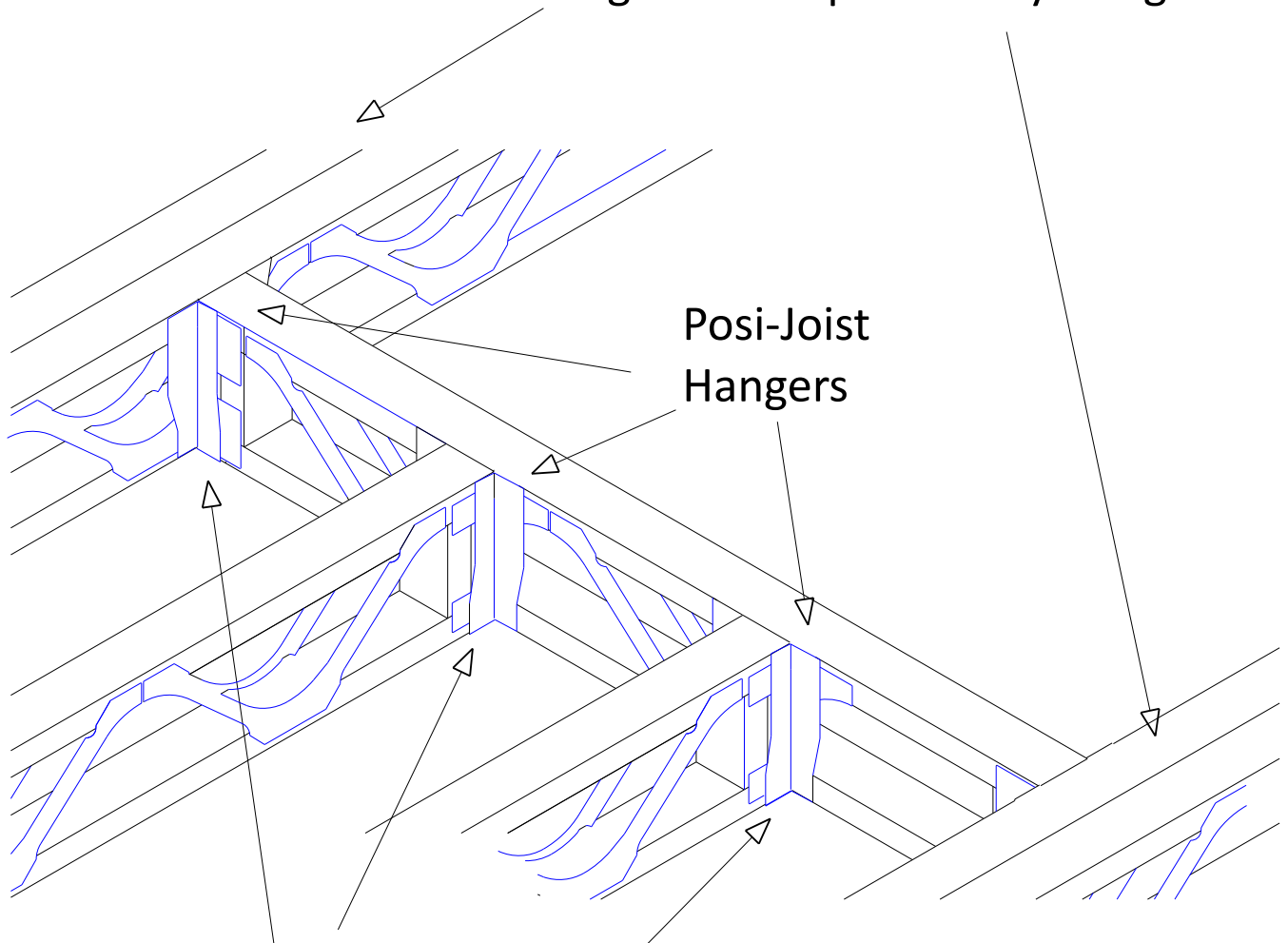
LARGE SERVICES MAY NEED TO BE OF FLEXIBLE MATERIAL TO BE ABLE TO BE FED THROUGH THE VOIDS IN THE POSI-JOISTS

Maximum Duct Sizes



SDPJ.05.01

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



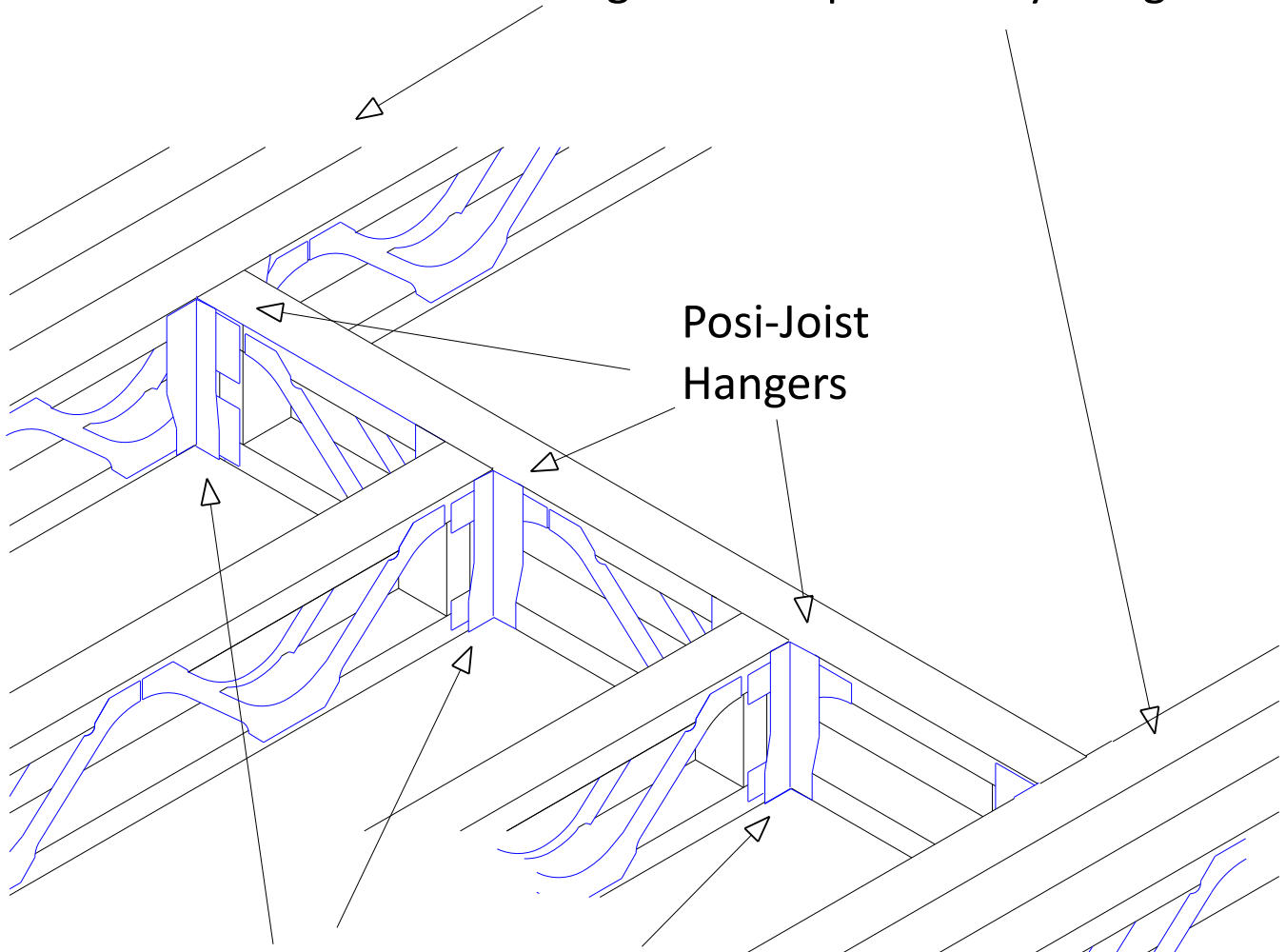
Do not notch bottom chord of Posi-Joist over bottom flange of hanger.

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

MiTek[®]



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



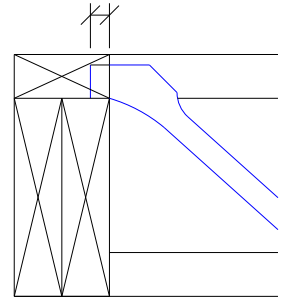
Do not notch bottom chord of Posi-Joist over bottom flange of hanger.

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



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

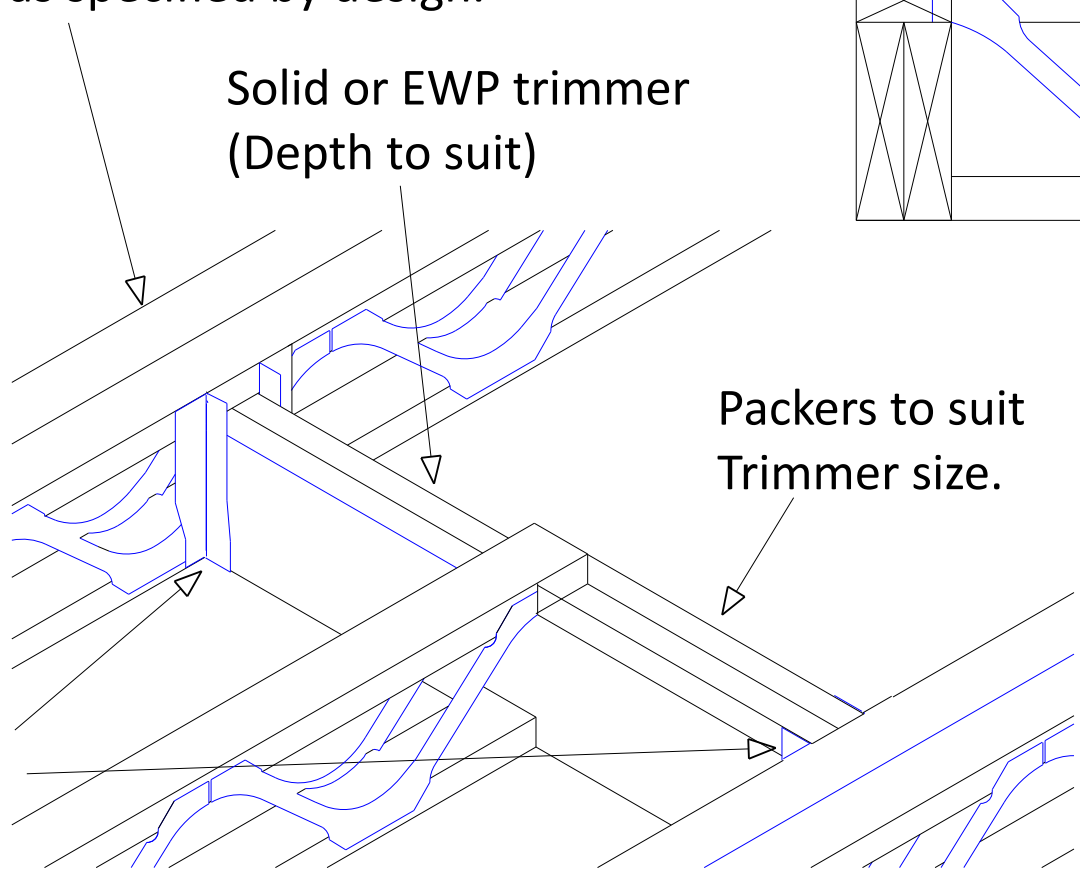
Unless proven by design the Posi-Strut should overhang the bearing by 15mm.



Solid or EWP trimmer
(Depth to suit)

Packers to suit
Trimmer size.

Posi-Joist
Hangers

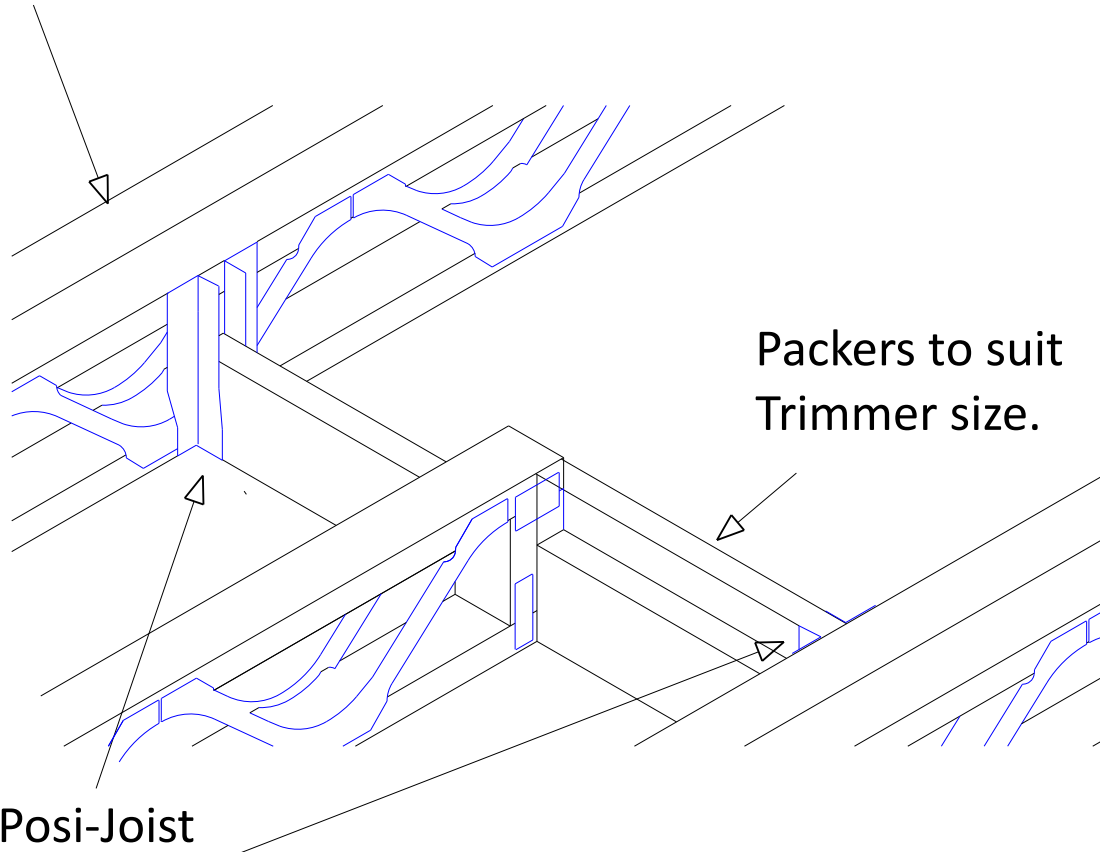


Opening with Posi-Joist Girder and Solid or EWP Trimmer Beam.



SDPJ.05.04

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



Packers to suit
Trimmer size.

Posi-Joist
Hangers

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

MiTek[®]

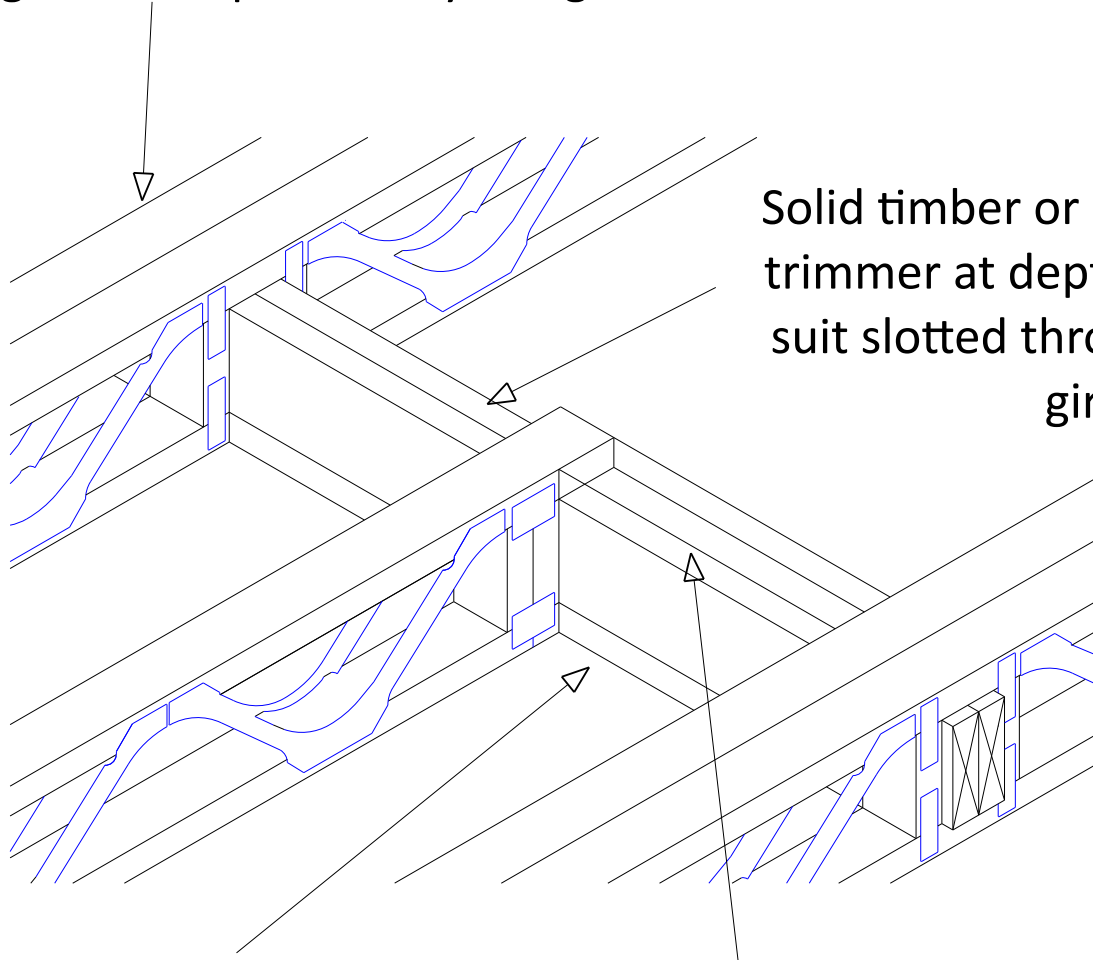


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HETS / MiTek Standard Detail

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.

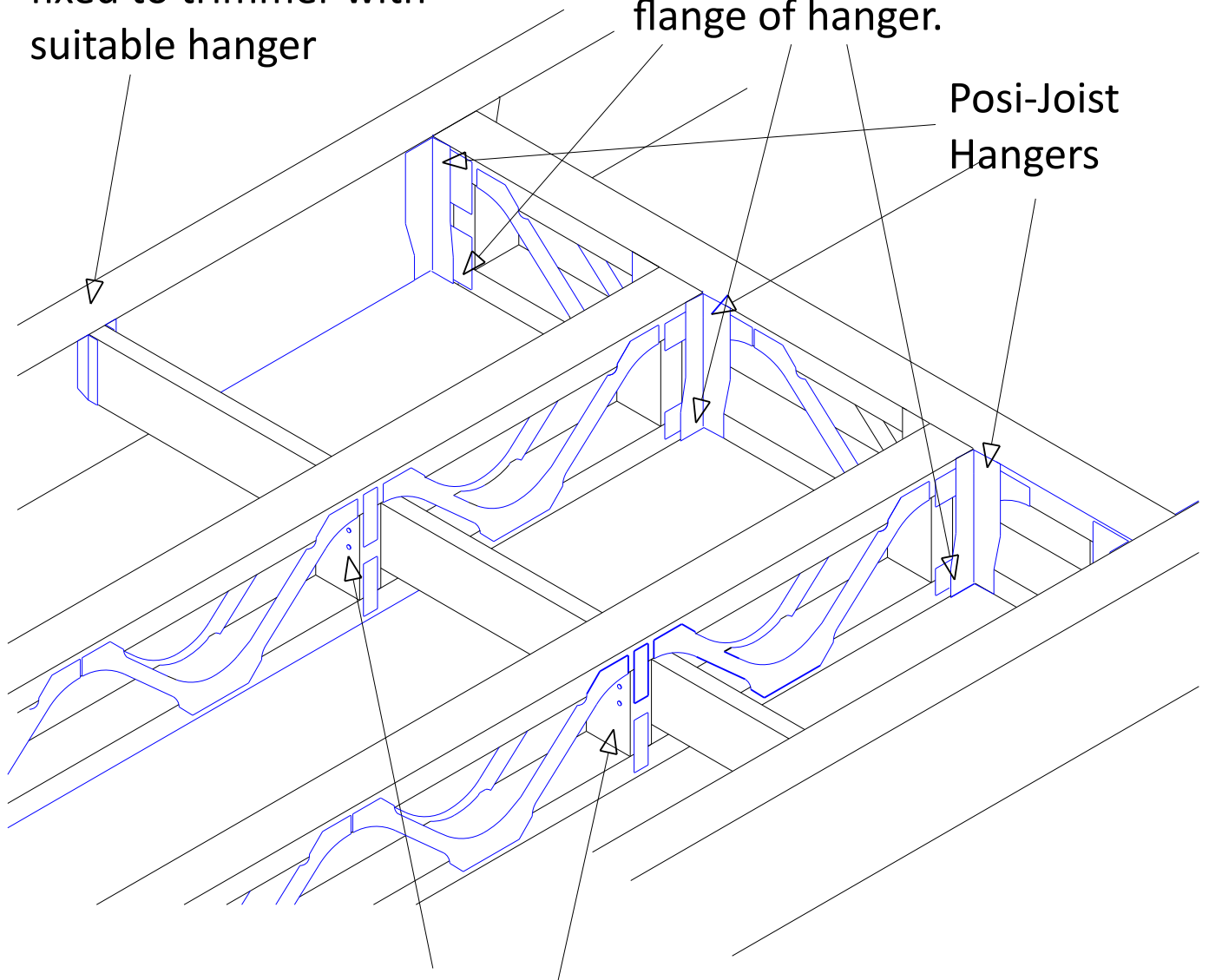
Staircase Opening With Solid Timber Or EWP Trimmer Beam Slotted Through Posi-Joist Girder



Strongback securely fixed to trimmer with suitable hanger

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

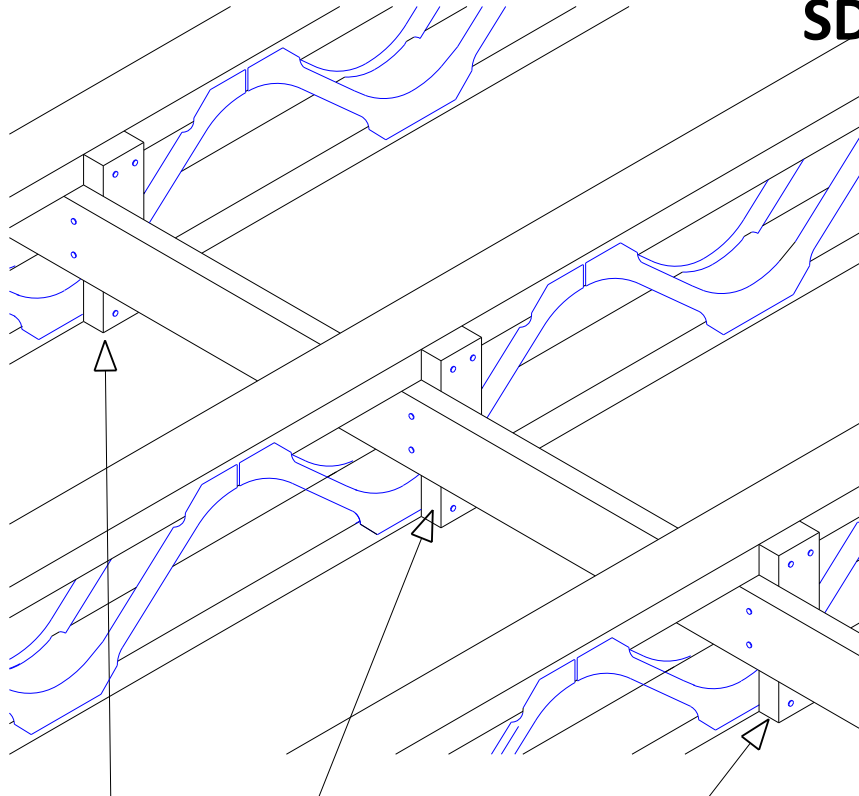
Posi-Joist Hangers



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 strongback sizes 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)

MiTek[®]

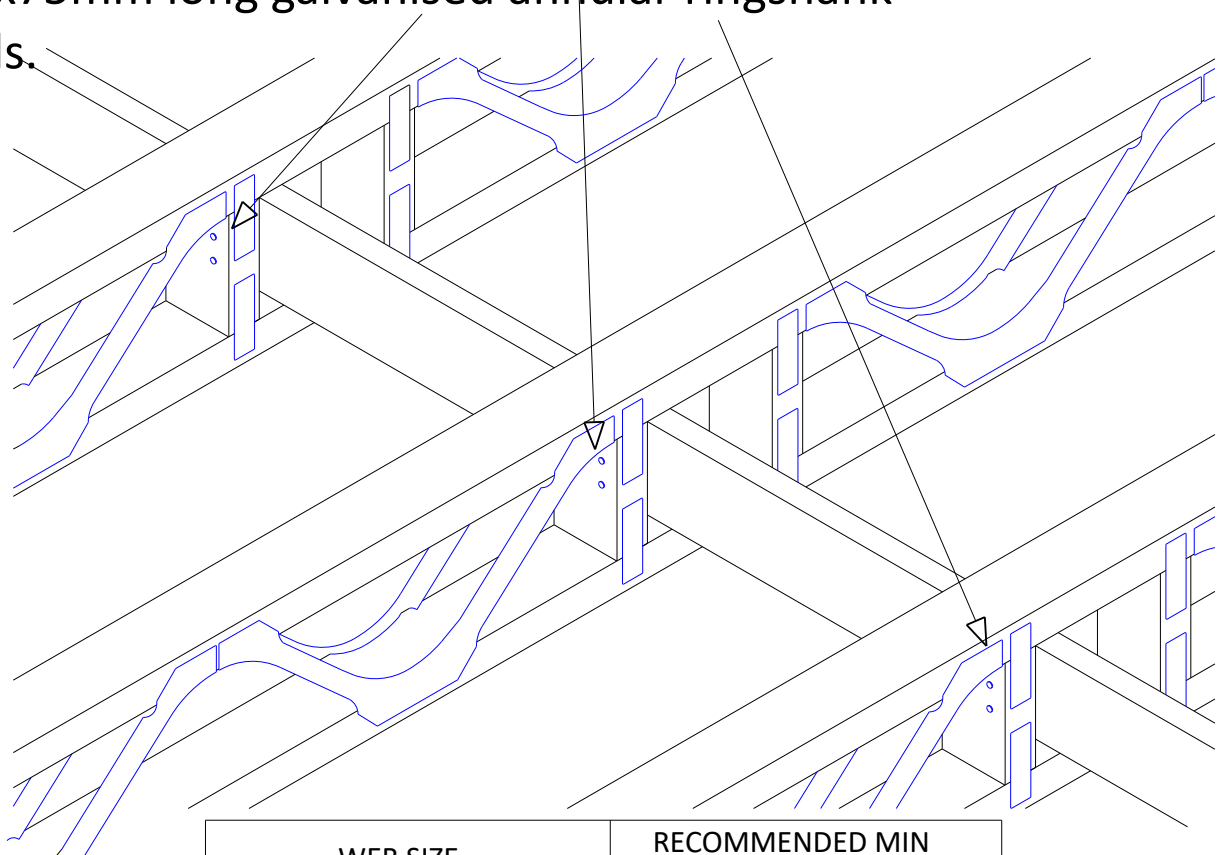


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HETS / MiTek Standard Detail

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

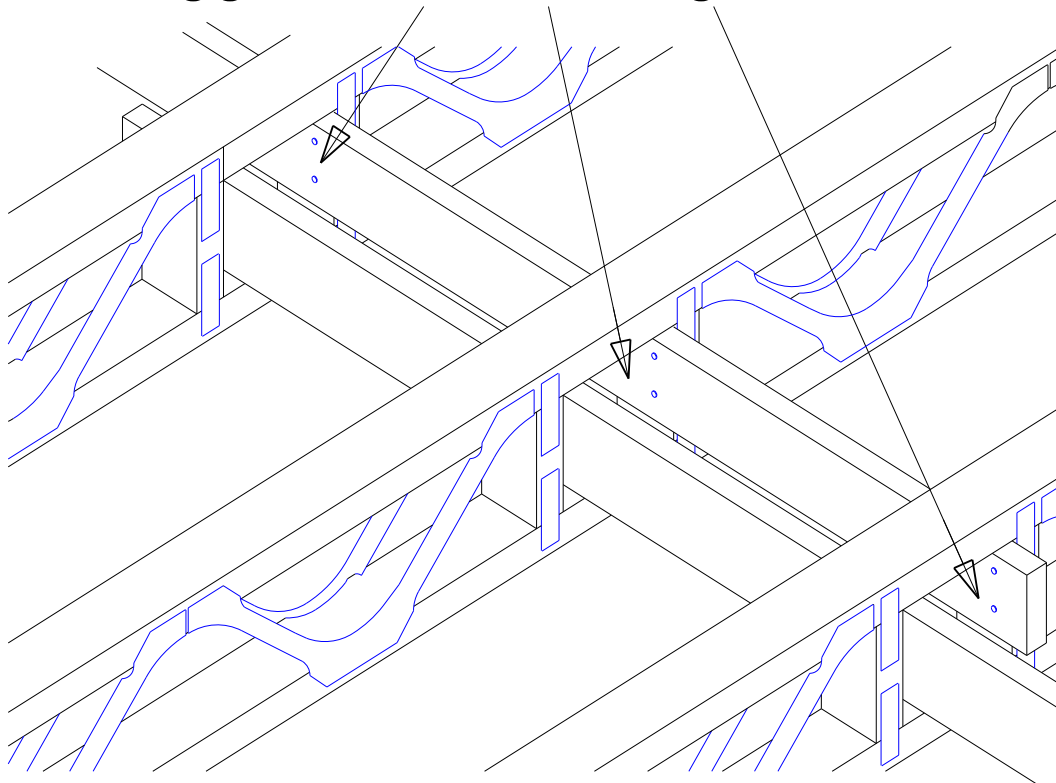
Fixed To Built In Vertical Webs

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

MiTek[®]



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

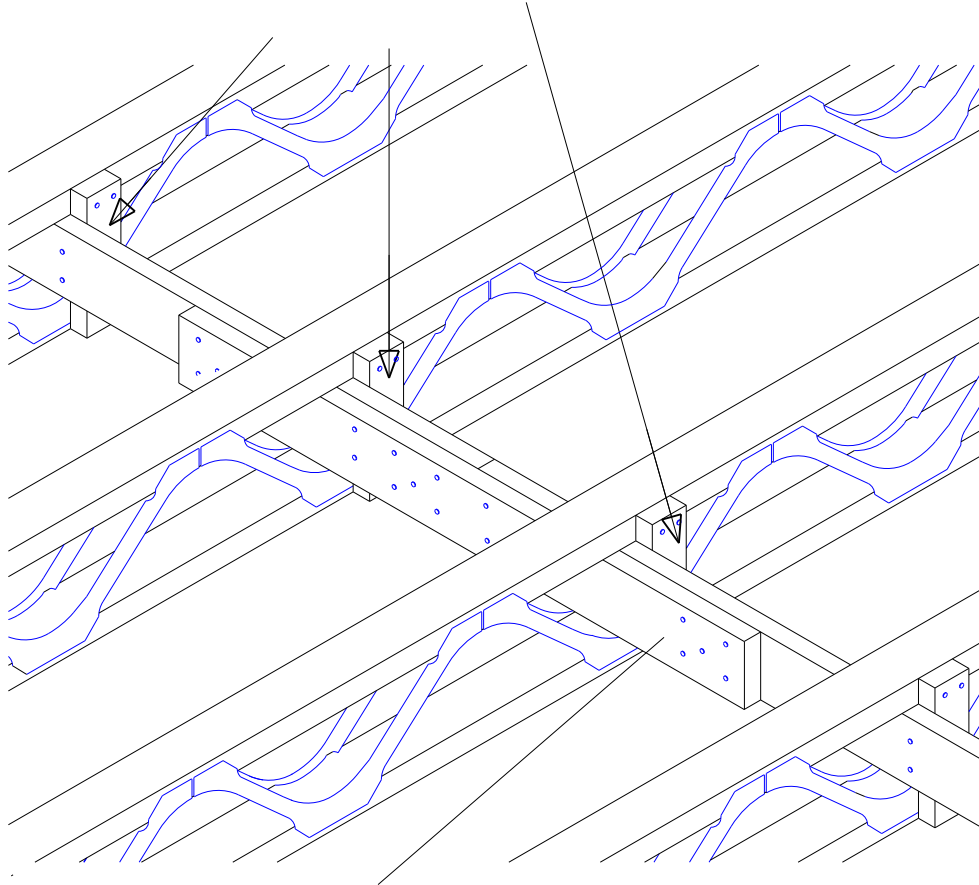
Fixed To Built In Vertical Webs

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

MiTek[®]



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



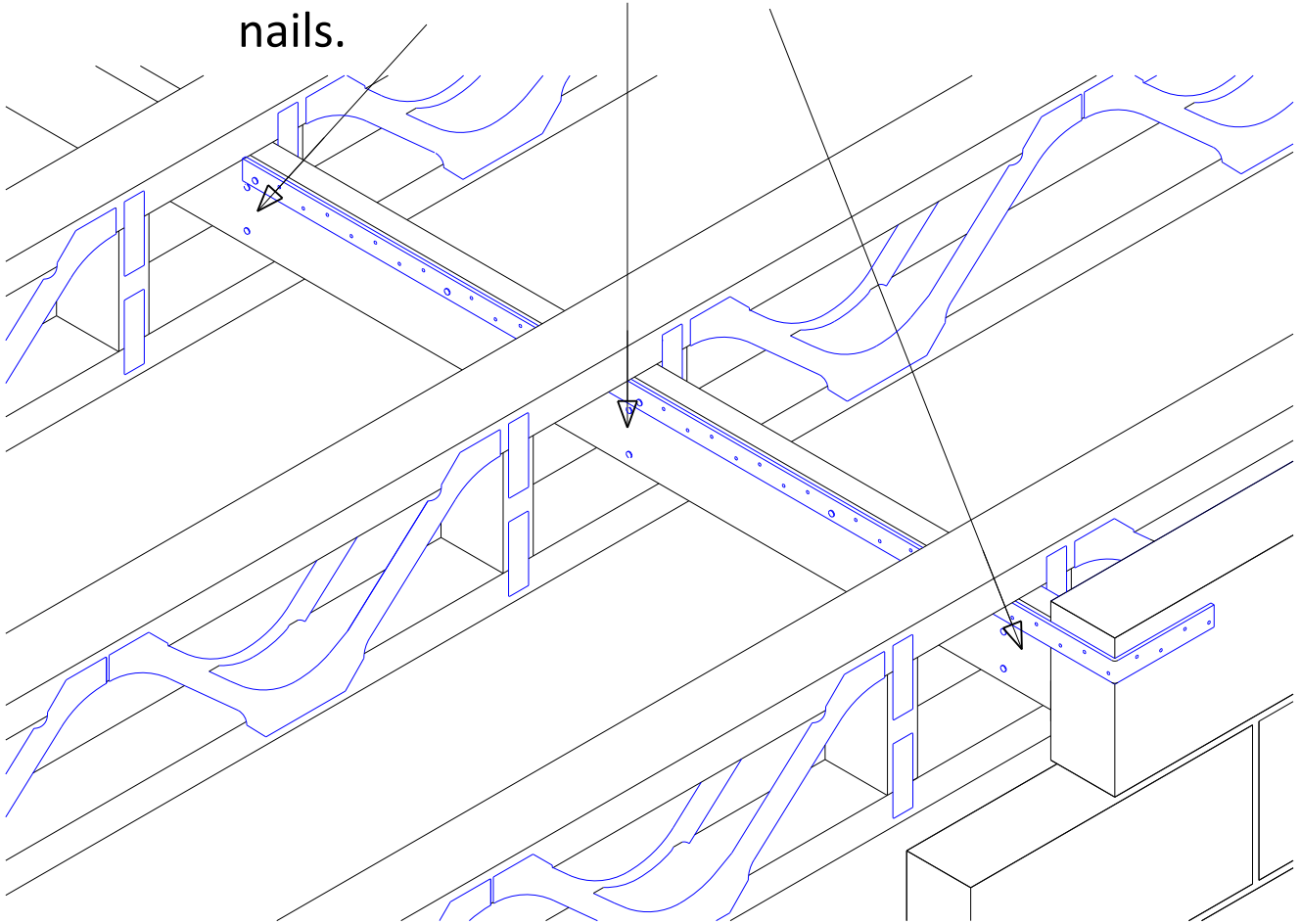
1200mm long splice fixed with 10no 3.1x90mm long galvanised annular ringshank nails each side of splice, nailed through and clenched over on far side.

Strongback Splice Fixed to Site Added Blocks

MiTek[®]



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

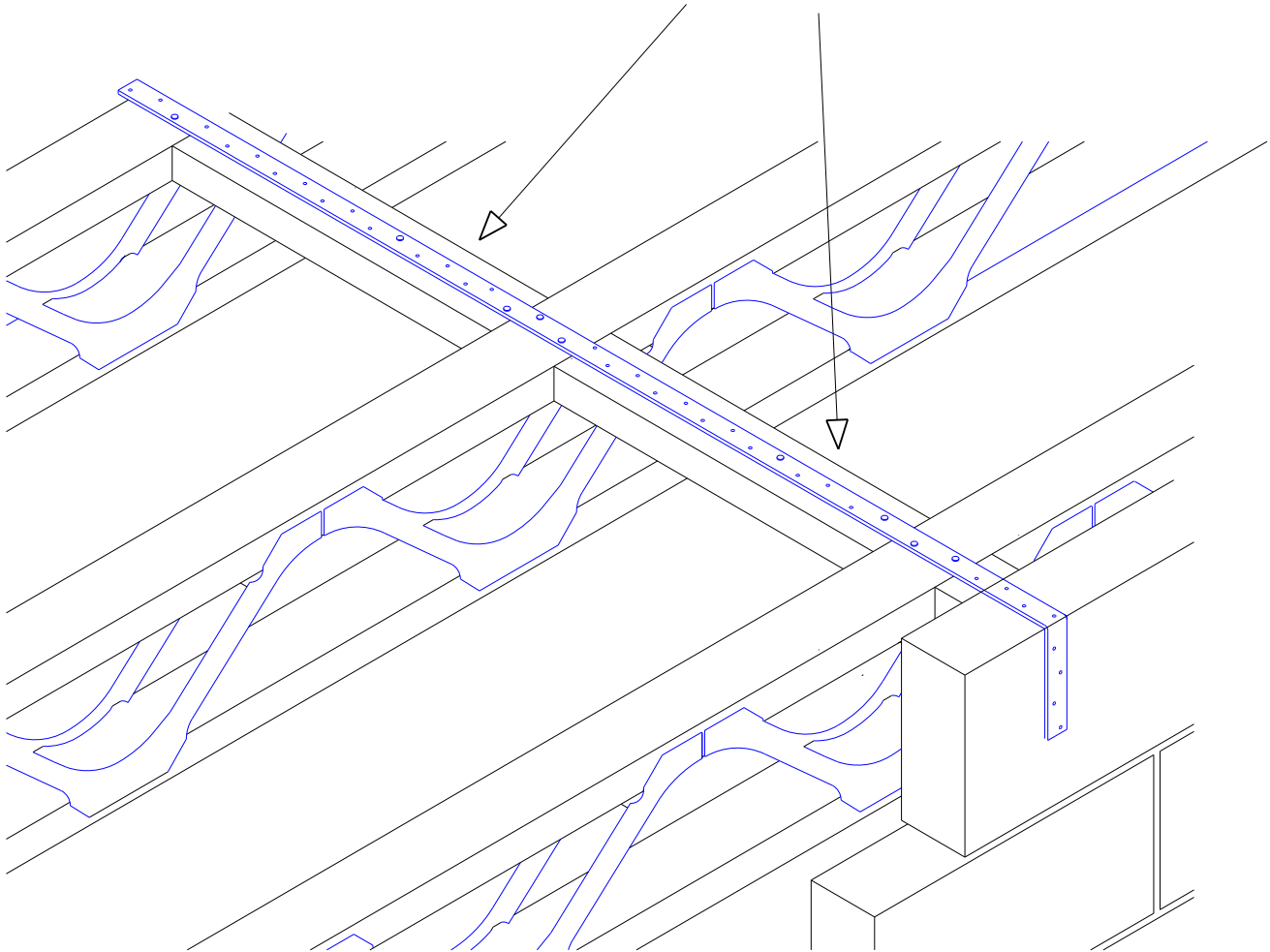


Strap fixed along top edge of strongback.
Refer to strap manufacturers details for
fixing method.

Horizontal Restraint Strap Fixed to Strongback



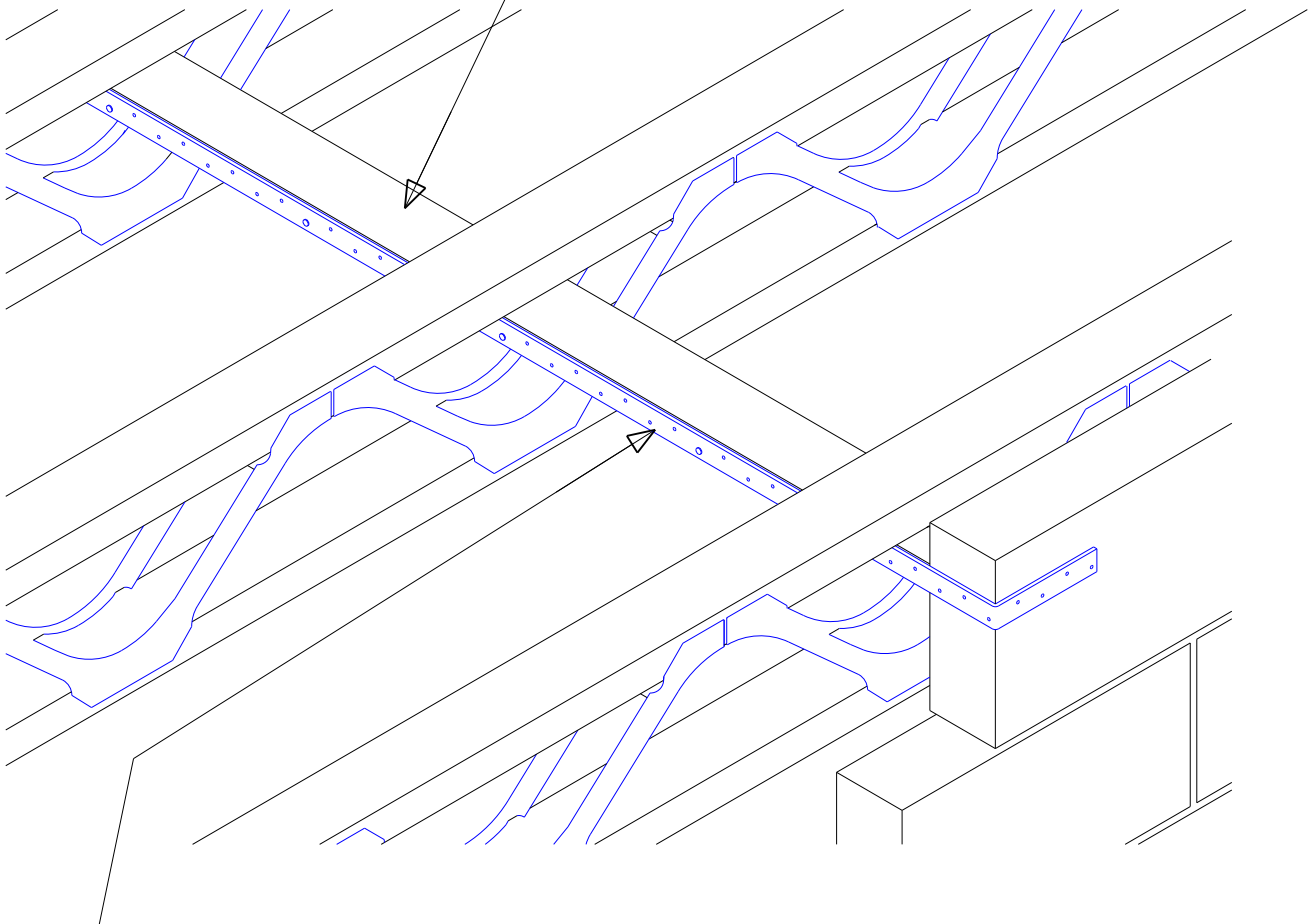
Min 35 x 72 C16 noggin fixed between joists.



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.

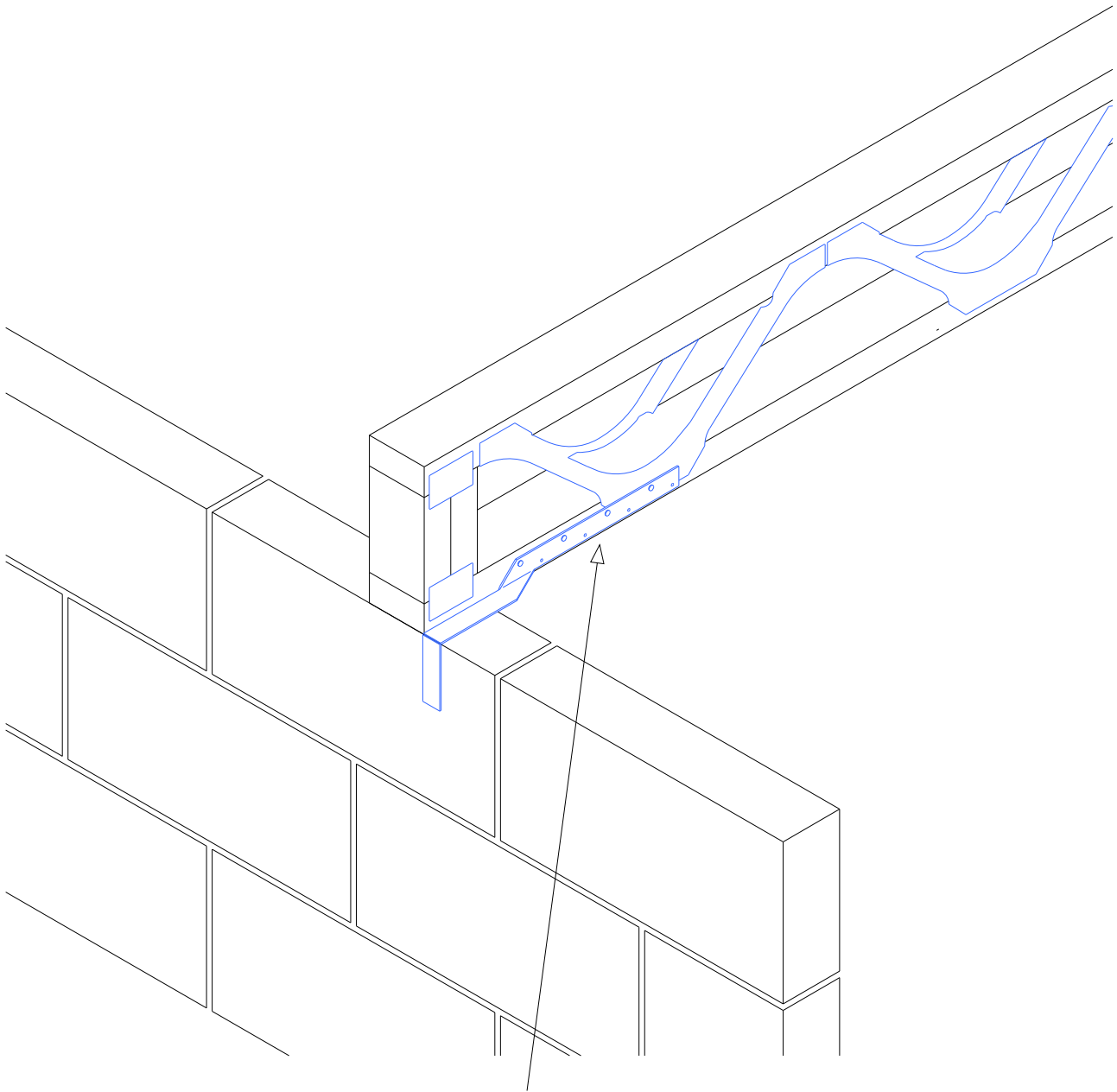


Strap fixed along top edge of strongback.
Refer to strap manufacturers details for
fixing method.

Horizontal Restraint Strap Fixed to Continuous Noggin

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

Horizontal Restraint Strap With Perpendicular Joist Built In

MiTek[®]

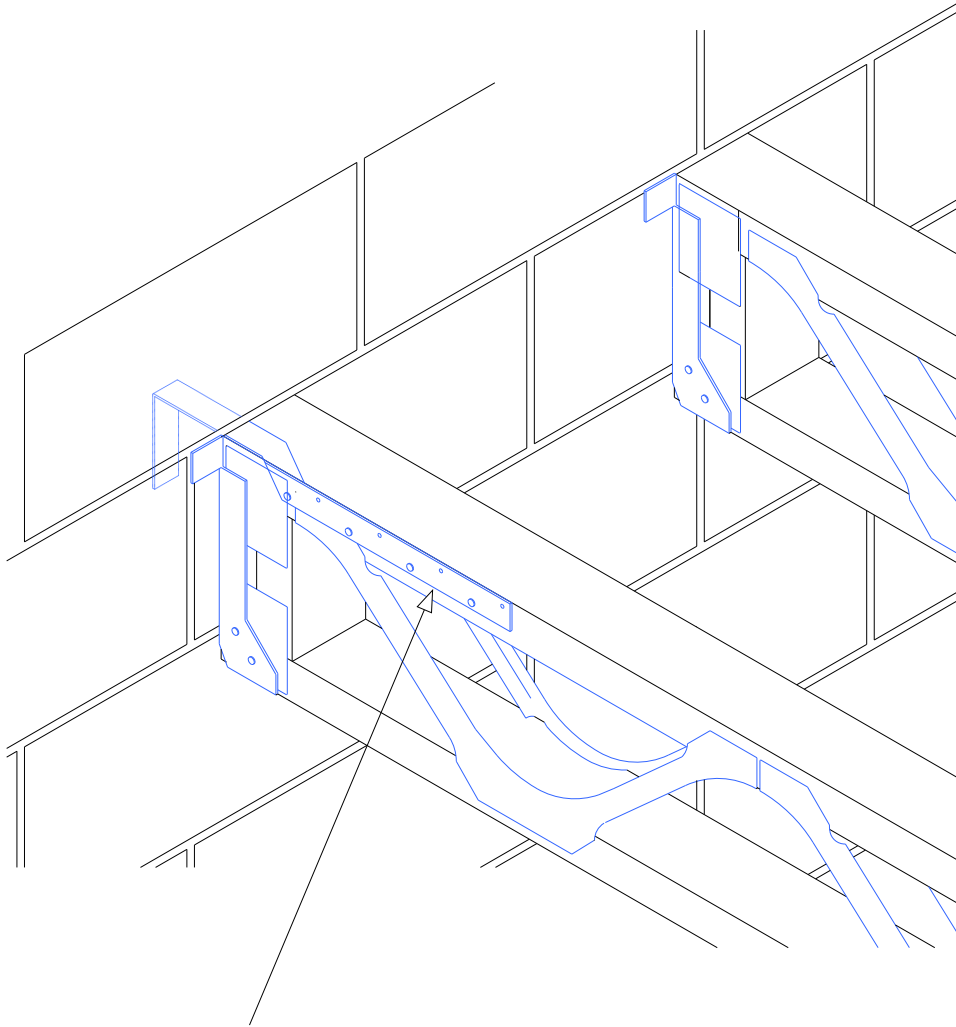


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HETS / MiTek Standard Detail

SDPJ.07.05



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

Horizontal Restraint Strap With Perpendicular Joist Into Hanger

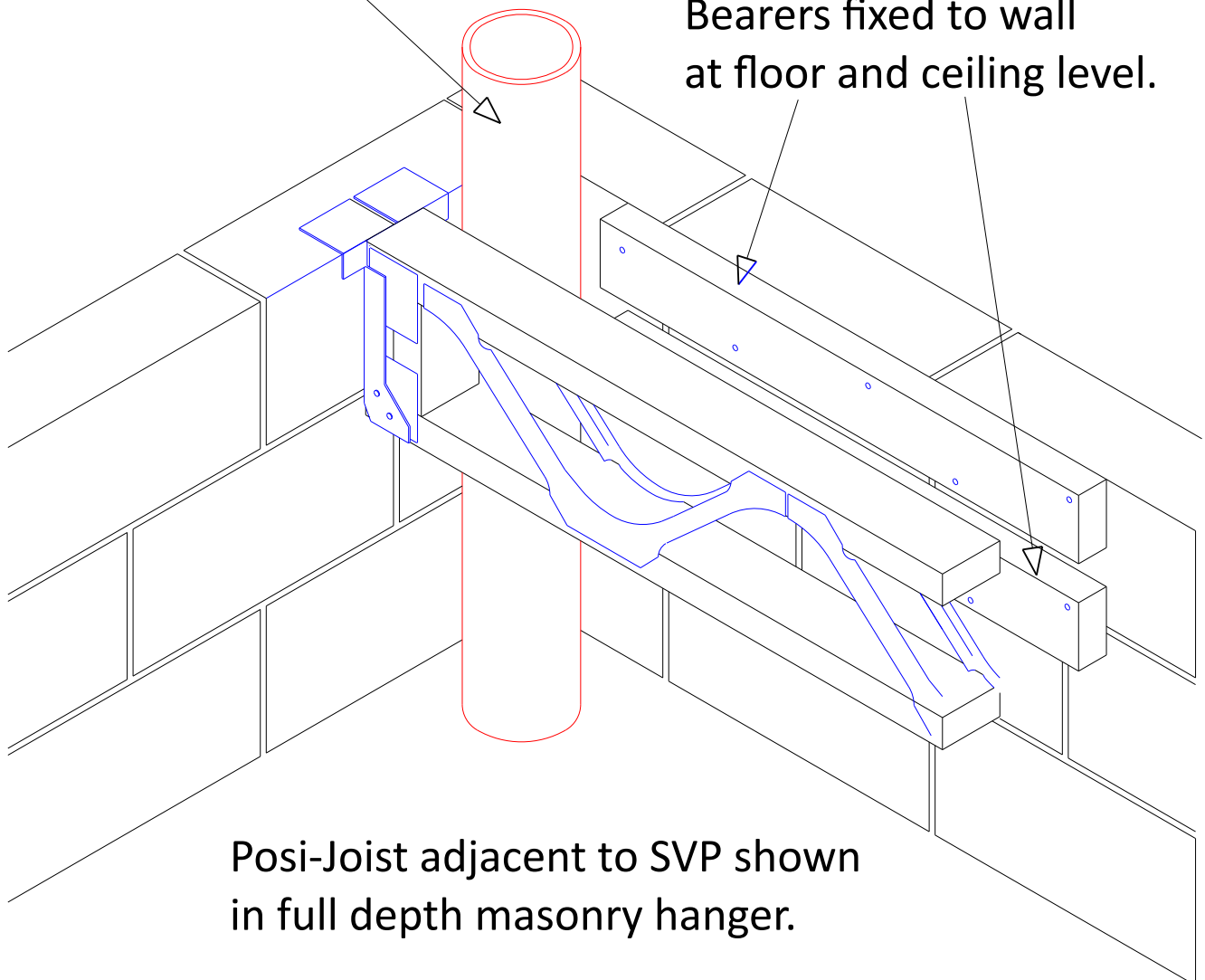
MiTek[®]



SDPJ.08.01

Soil Vent Pipe (SVP).

Bearers fixed to wall
at floor and ceiling level.



Posi-Joist adjacent to SVP shown
in full depth masonry 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.

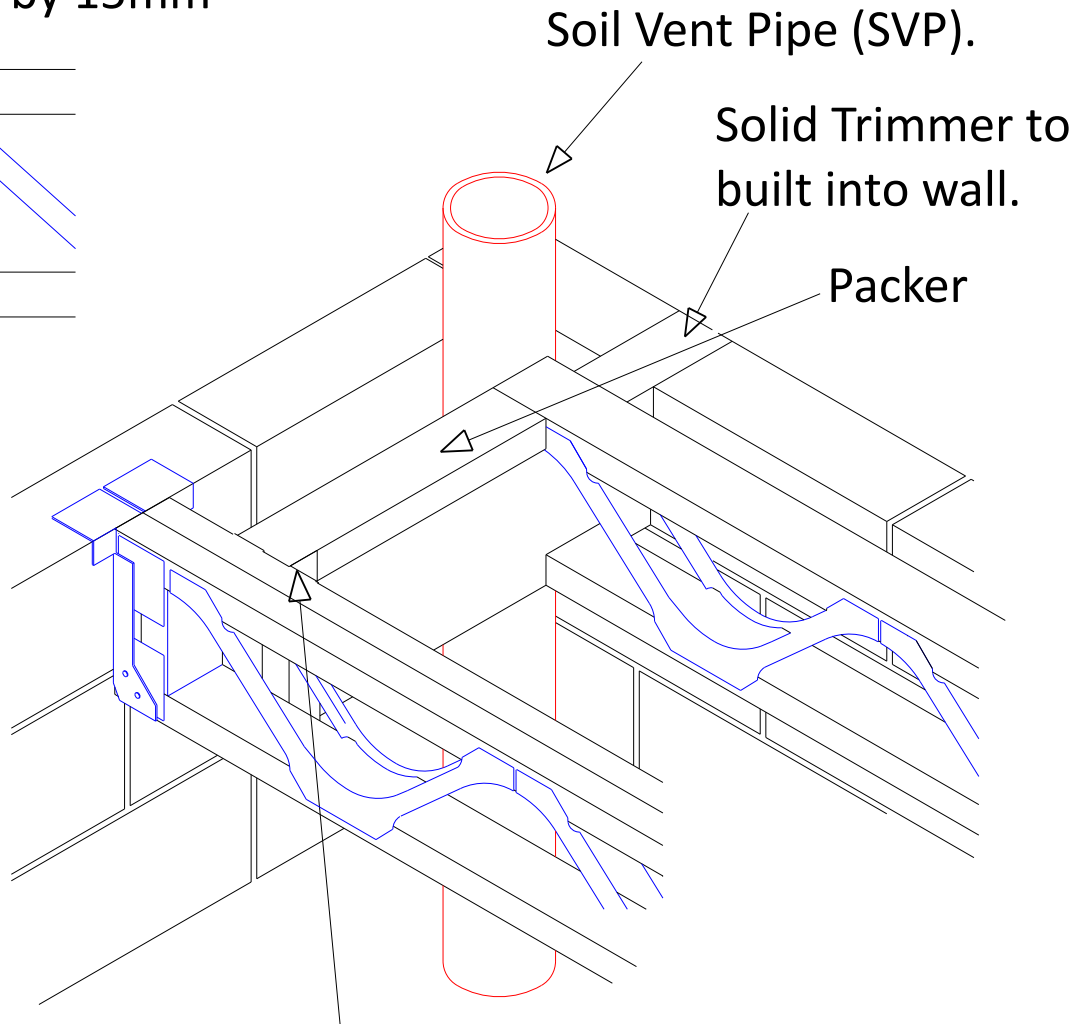
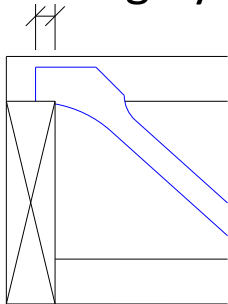
Fixing Round SVP using Bearer Plates

MiTek[®]



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.

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ENGINEERED TIMBER SOLUTIONS LTD

HETS / MiTek Standard Detail

100mm Mineral wool insulation quilt 23kb/m2

Mineral wool cavity barrier

Posi-web over bearing by min 15mm

2 no 30 x 200mm GMS Straps at 1200mm centres

Bead of sealant applied to floor deck prior to fixing 19mm plasterboard plank

Floating Floor Comprising:-
 18mm T & G Chipboard on 19mm plasterboard plank on 25mm Fibreglass Slab on 18mm T & G Chipboard. All T & G edges glued, and 19mm plank bonded to chipboard with dabs of Gyproc sealant at 300mm centres. Joints between chipboard and plasterboard to be staggered and board direction reversed.

47x 89 Continuous Pack

47x 89 Packs between joists

200 approx

First Posi-Joist beam set back from wall by approx 200mm

Plasterboard noggins

Ring Beams in solid timber or LVL

Posi-Joists bearing on wall

Posi-Joists Parallel to wall

Ceiling (not shown) comprising:-
 2 Layers 15mm Gyproc Fireline Board on 16mm resilient bars at 400mm centres. First layer fixed with 38mm Gyproc screws at 230mm centres. Second layer fixed with 60mm Gyproc screws at 230mm centres. Staggered with first layer screws. Lay Fireline board in echelon pattern with staggered joints.

Typical Timber Frame Compartment Floor/Party Wall Detail

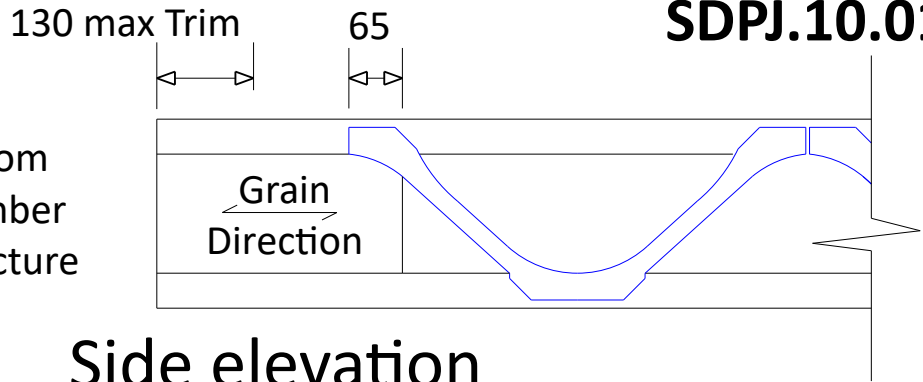


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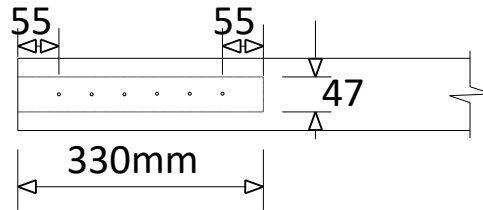
HETS / MiTek Standard Detail

330mm solid block from dry well seasoned timber tight fixed at manufacture



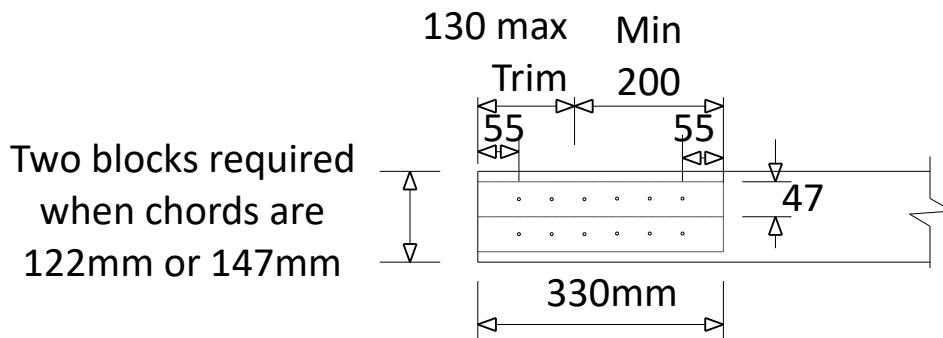
Side elevation

One block required when chords are 72mm or 97mm



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



Two blocks required when chords are 122mm or 147mm

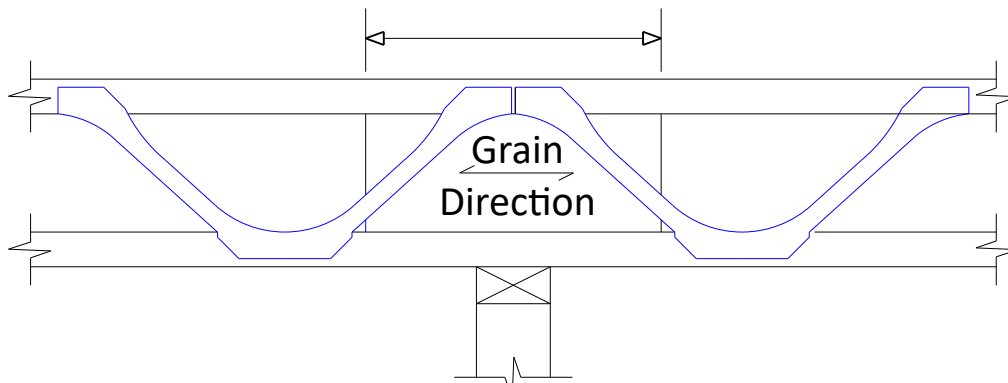
For 122 and 147 wide Posi joists insert two trimmable blocks secured with 12 no. 3.1 x 90 long power driven annular ring-shank or helically twisted nails into the top and 12 into the bottom at 44mm centres.

Plan view of Posi-Joist with two blocks

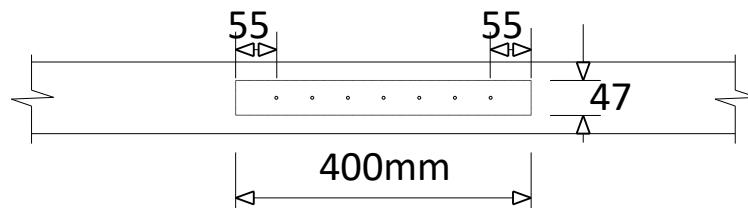
**Site Trimmable
Block End Support Detail**



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



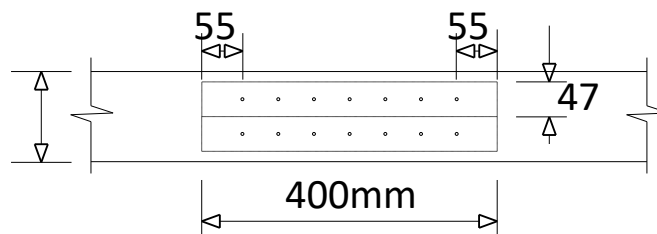
Side elevation



For 72 or 97 wide Posi joists insert one block secured with 7 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 7 into the bottom at 48mm centres.

Plan view of Posi-Joist with one block

Two blocks required
when chords are
122mm or 147mm

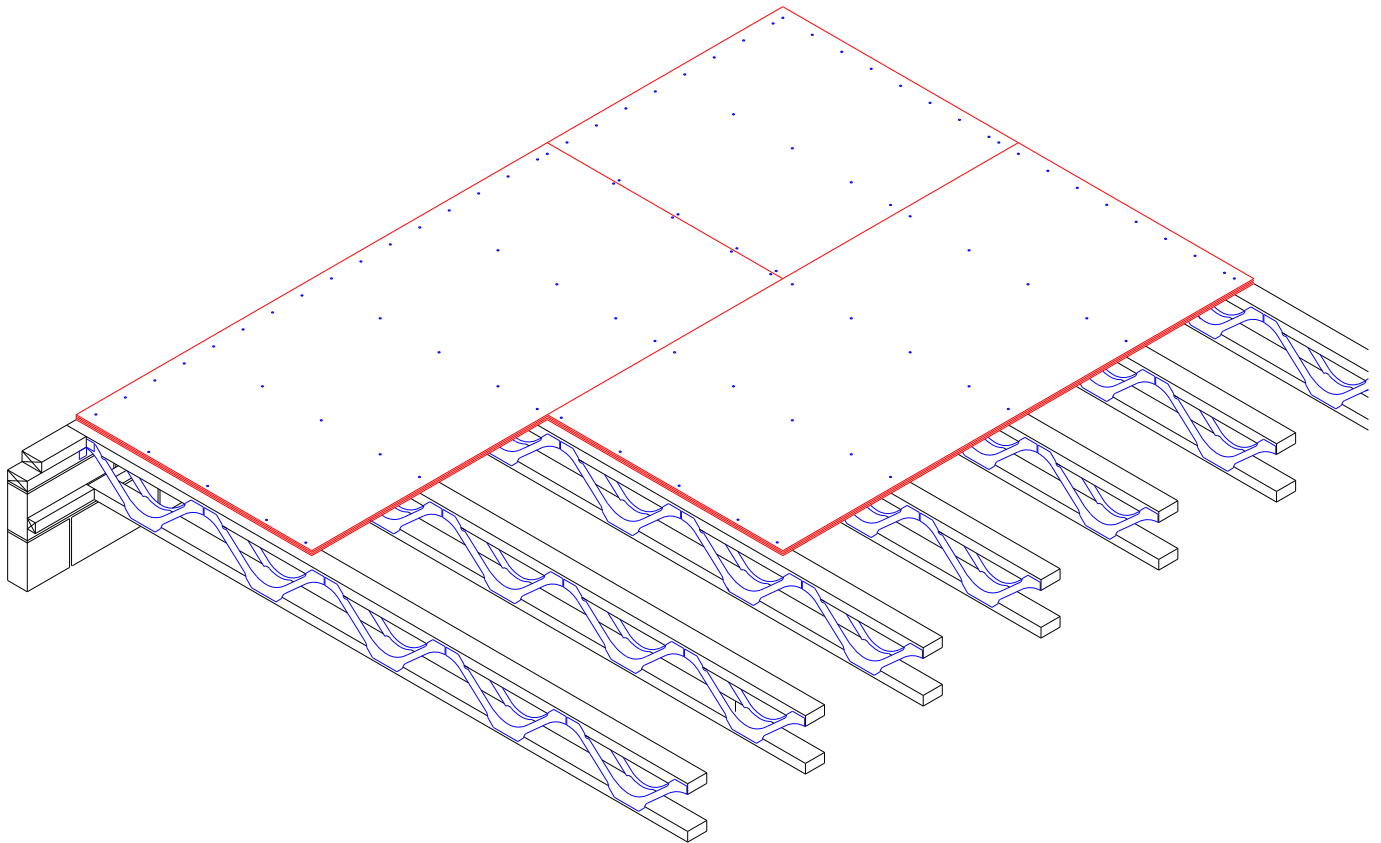


For 122 or 147 wide Posi joists insert two blocks secured with 14 no. 3.1 x 90 long power driven annular ring-shank or 3.3 x 98 long power driven screw-shank nails into the top and 14 into the bottom at 48mm centres.

Plan view of Posi-Joist with two blocks

Note: The Third Bearing / Internal Block Nailing assumes a min. 400mm long block. It is permissible 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.



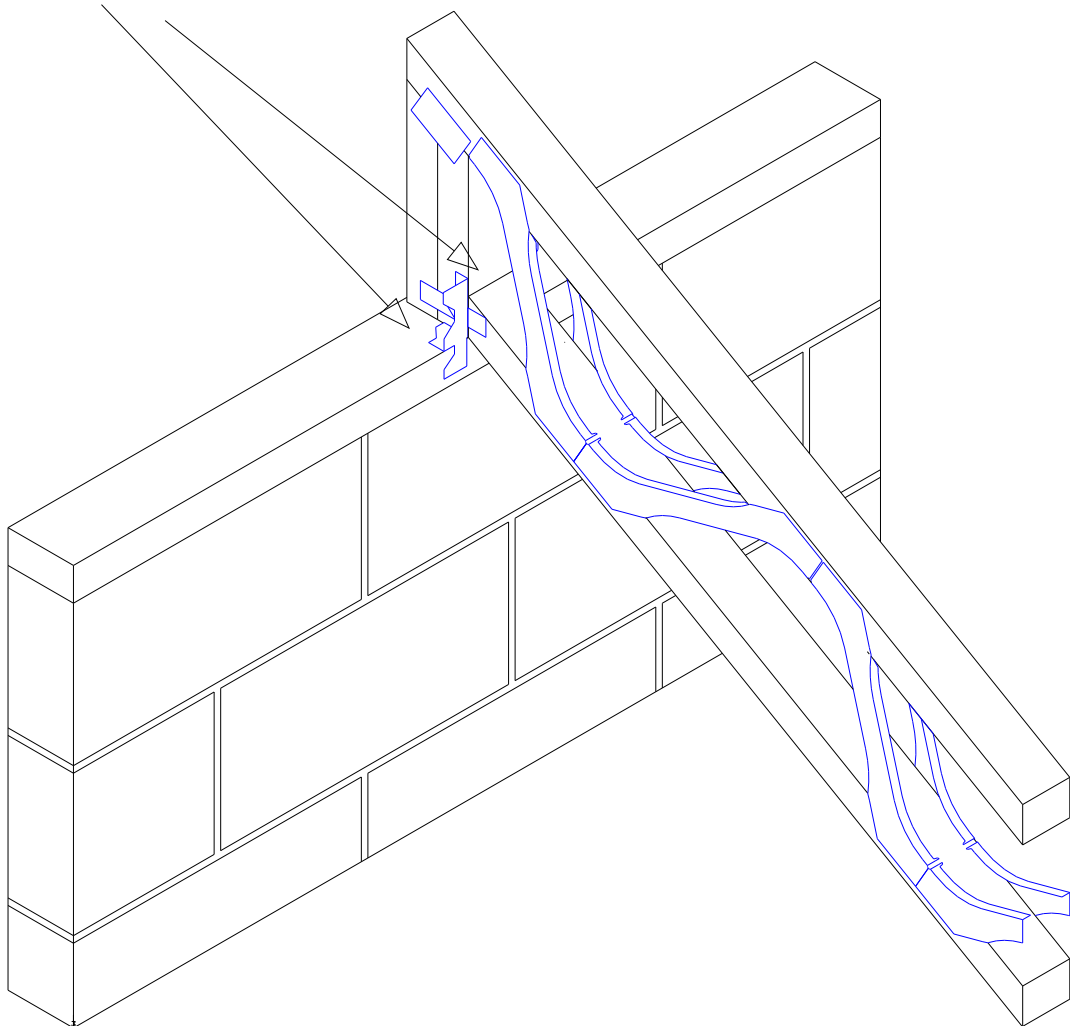
Boards should be glued and Fixed down to the joists using suitable fixings and MiTek JOIST-IK glue or similar approved adhesive.

Tongue and Groove Boards

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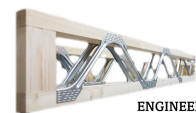
Framing anchors,
2no per connection.



Flatwise Posi-Rafters to Wallplate at Apex

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

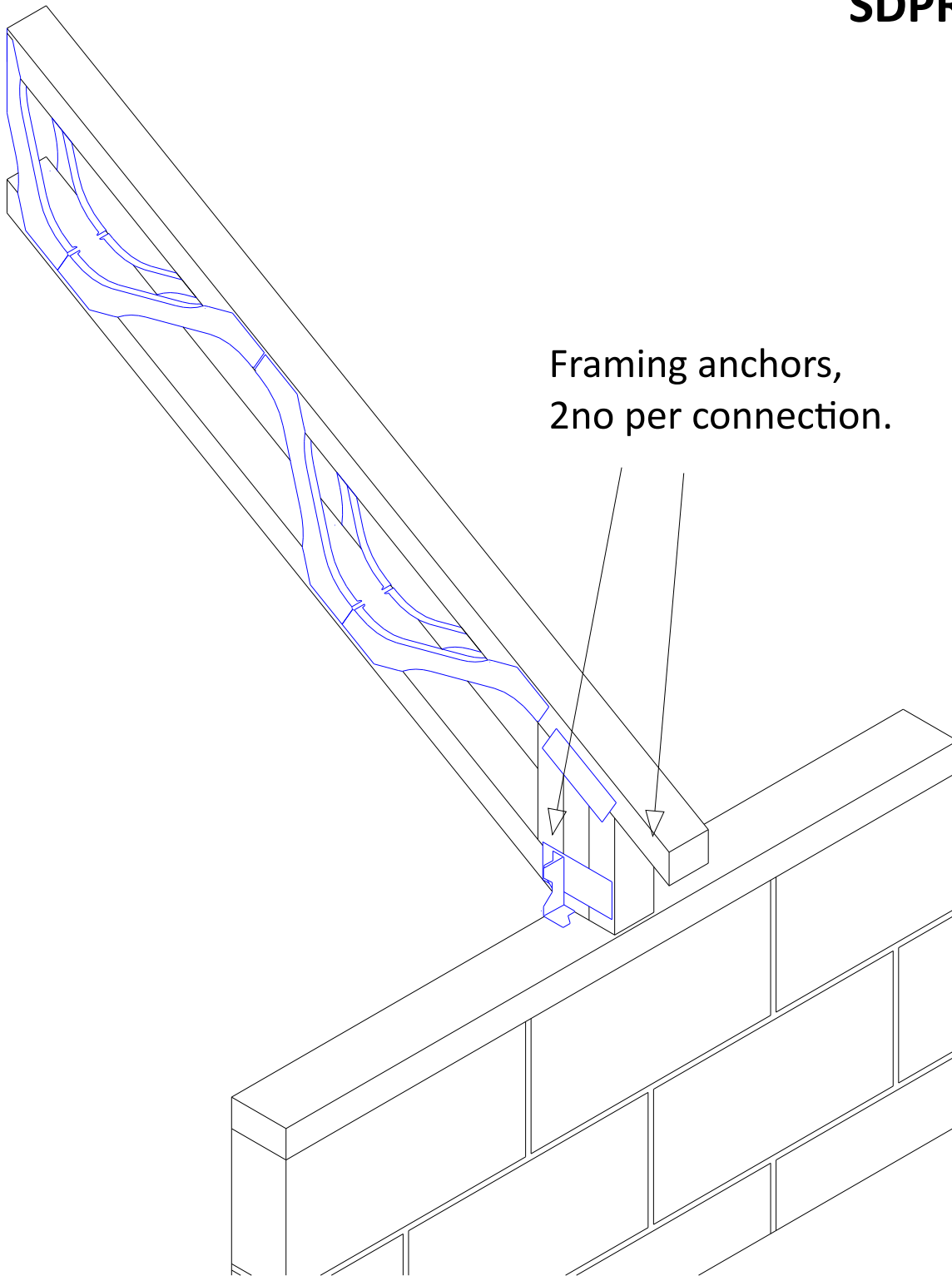
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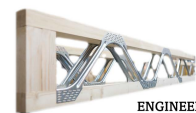
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Flatwise Posi-Rafters to Wallplate at Eaves

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

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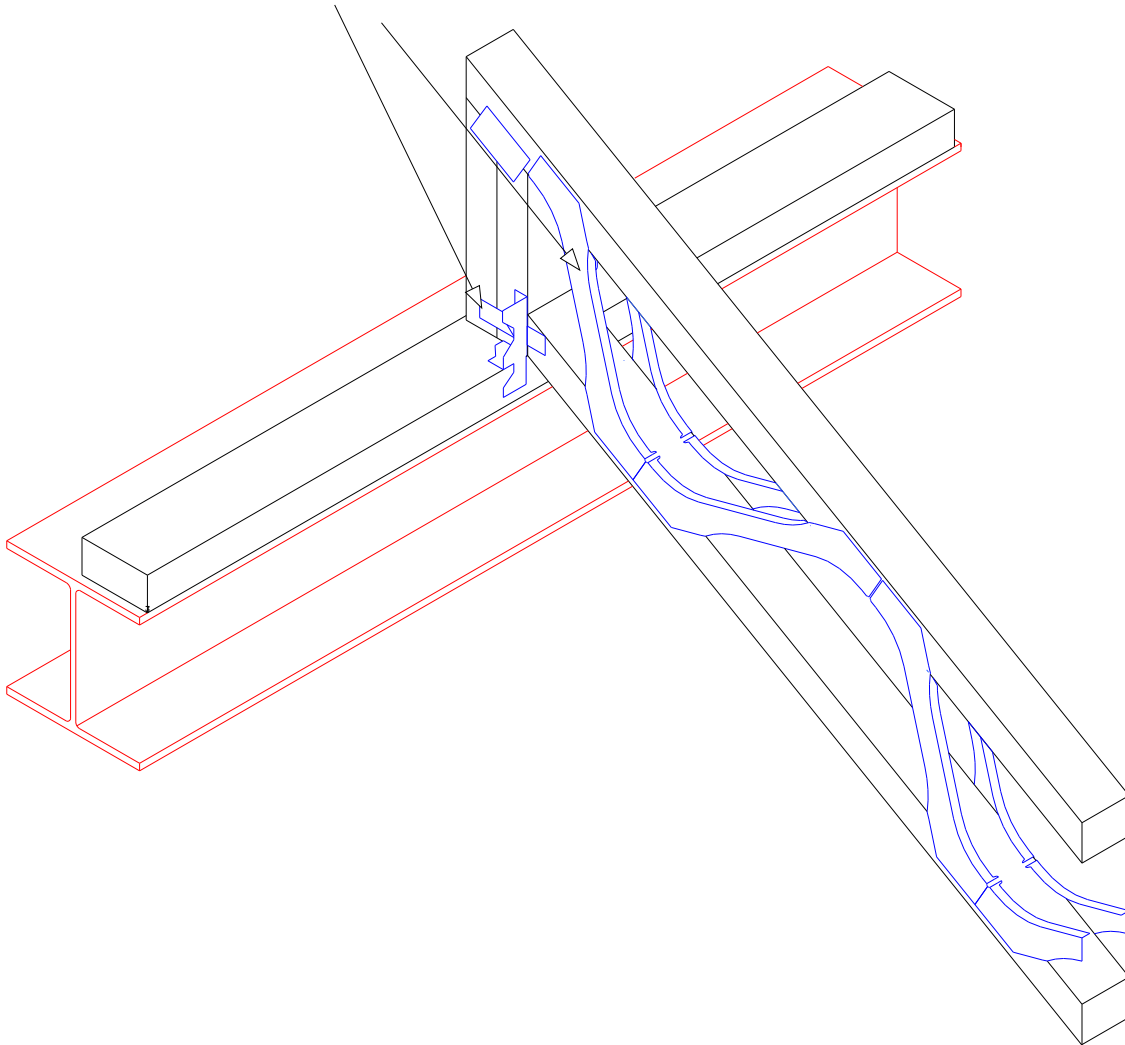


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Framing anchors,
2no per connection.



Flatwise Posi-Rafters to Steel at Apex

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

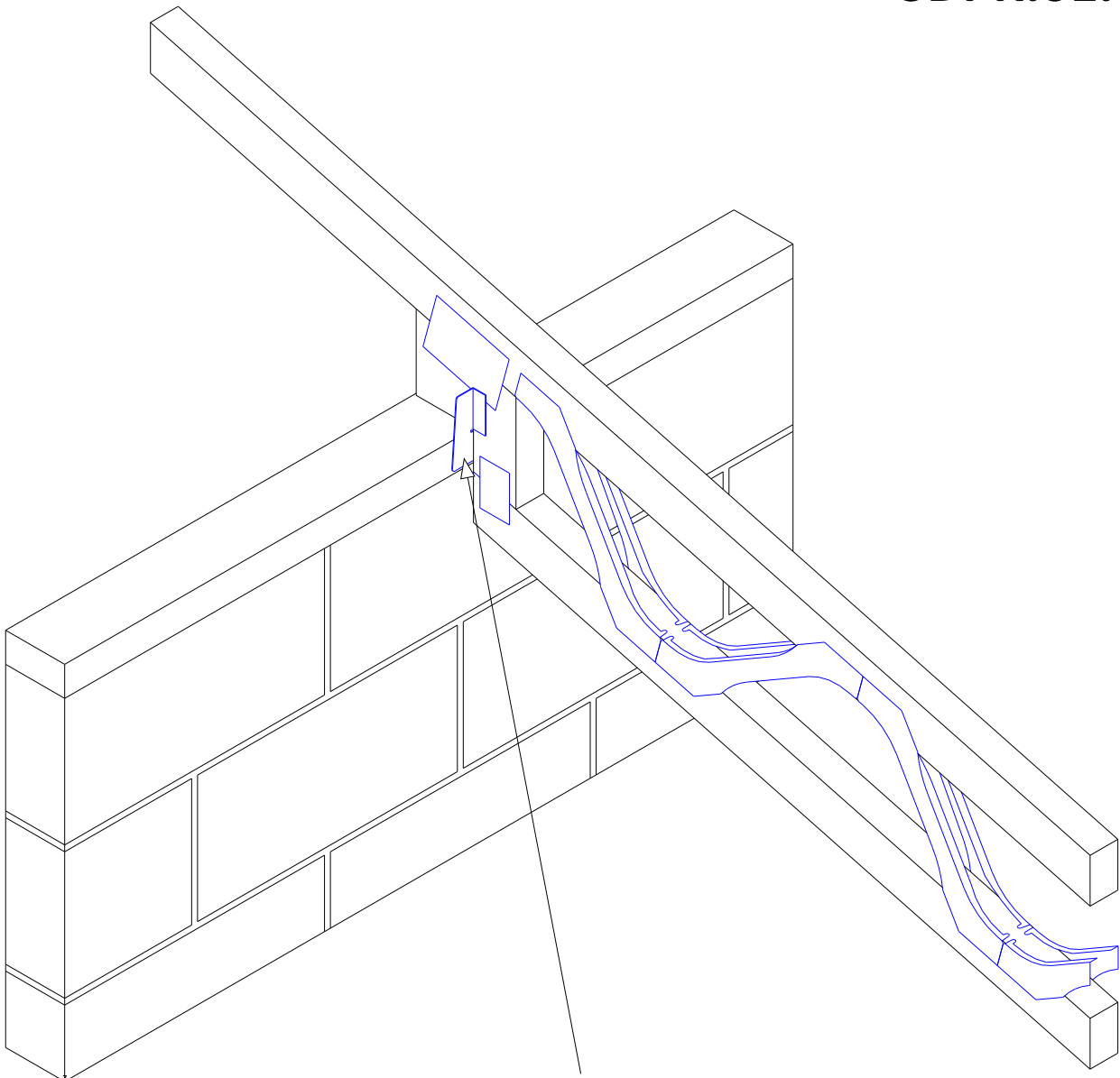
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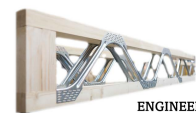


Truss clip.

Edgewise Posi-Rafters to Wallplate at Apex

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

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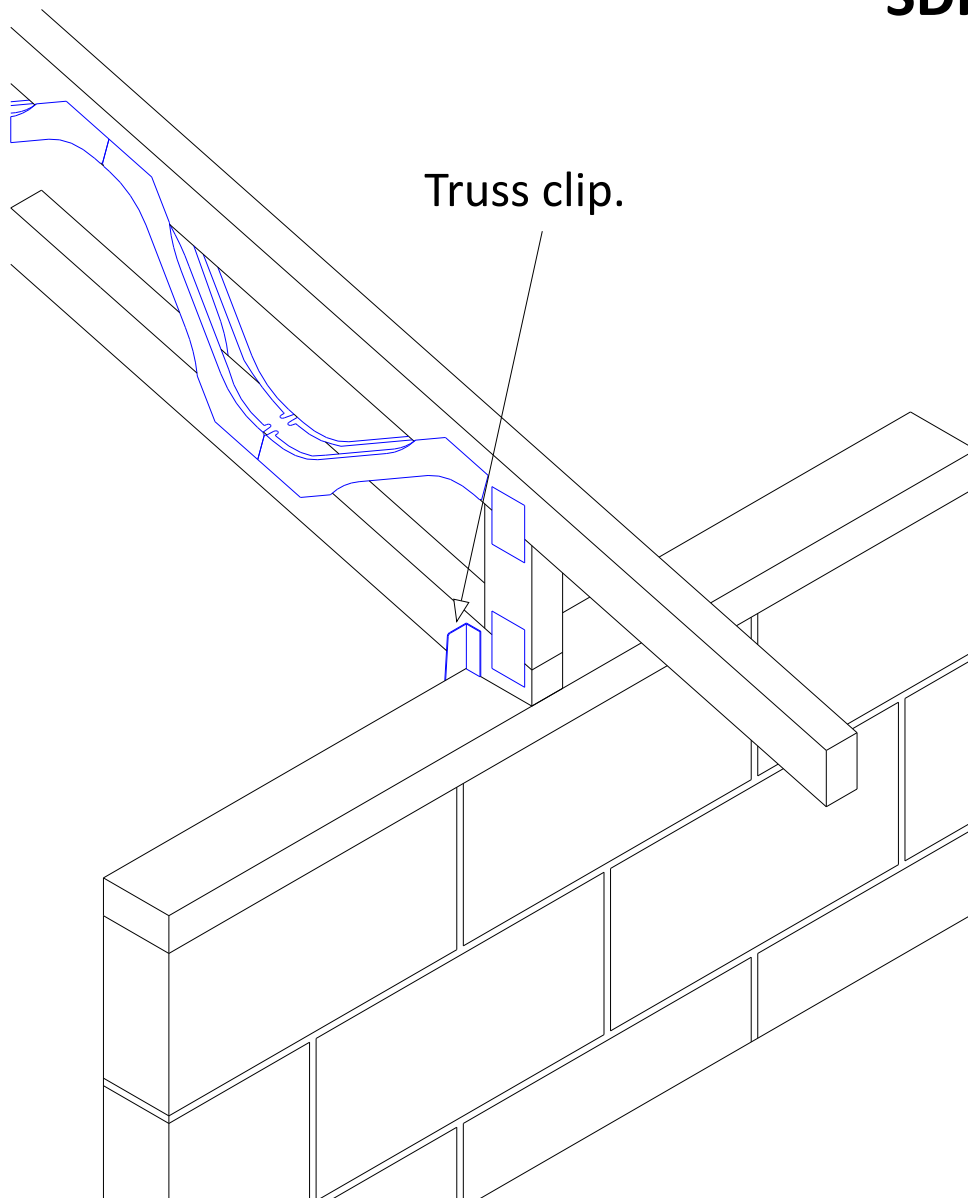


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SDPR.01.05



Edgewise Posi-Rafters to Wallplate at Eaves

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

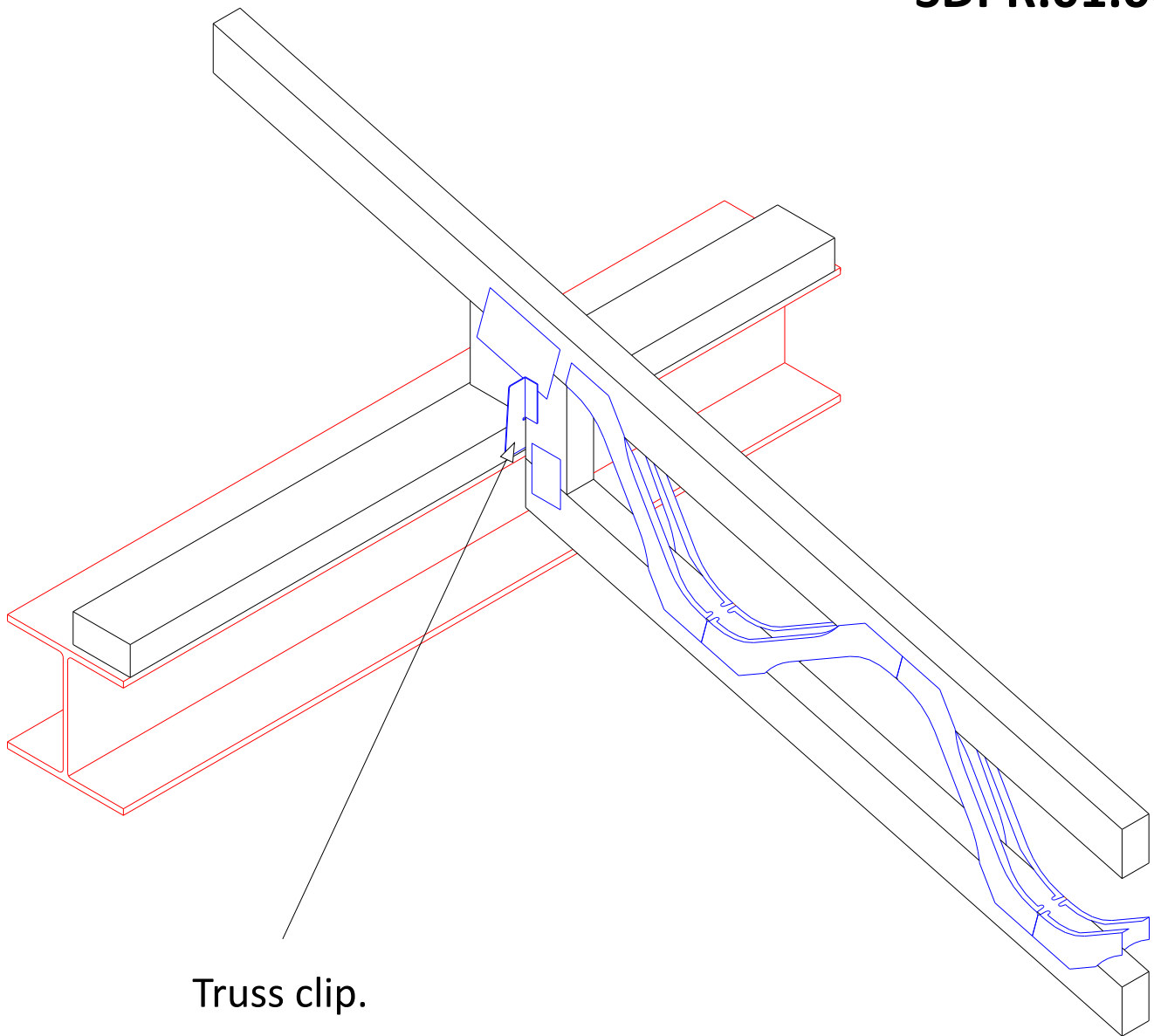
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Edgewise Posi-Rafters to Steel at Apex

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

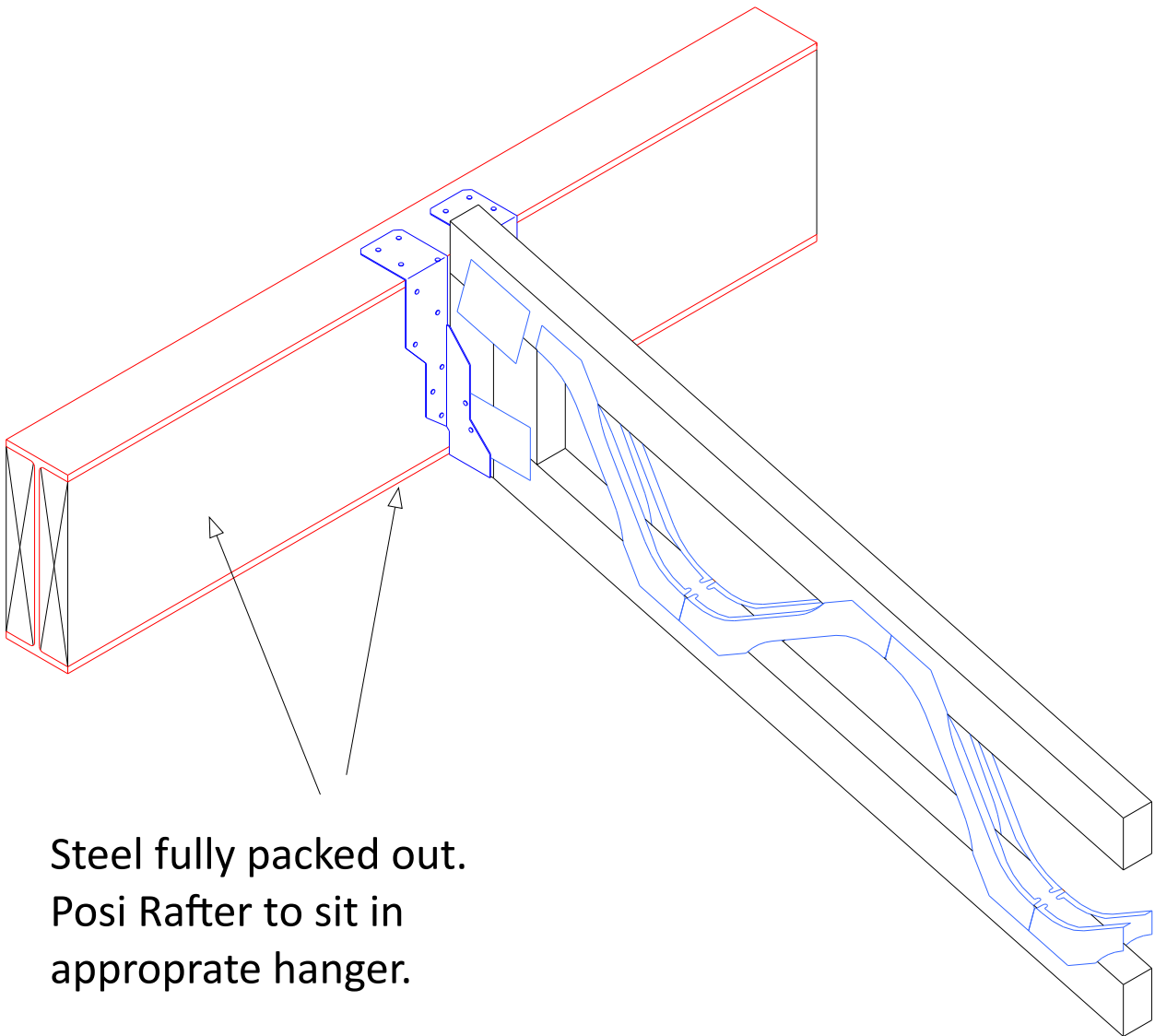
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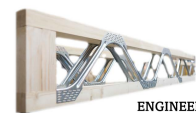


Steel fully packed out.
Posi Rafter to sit in
appropriate hanger.

Edgewise Posi-Rafters to Steel at Apex

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

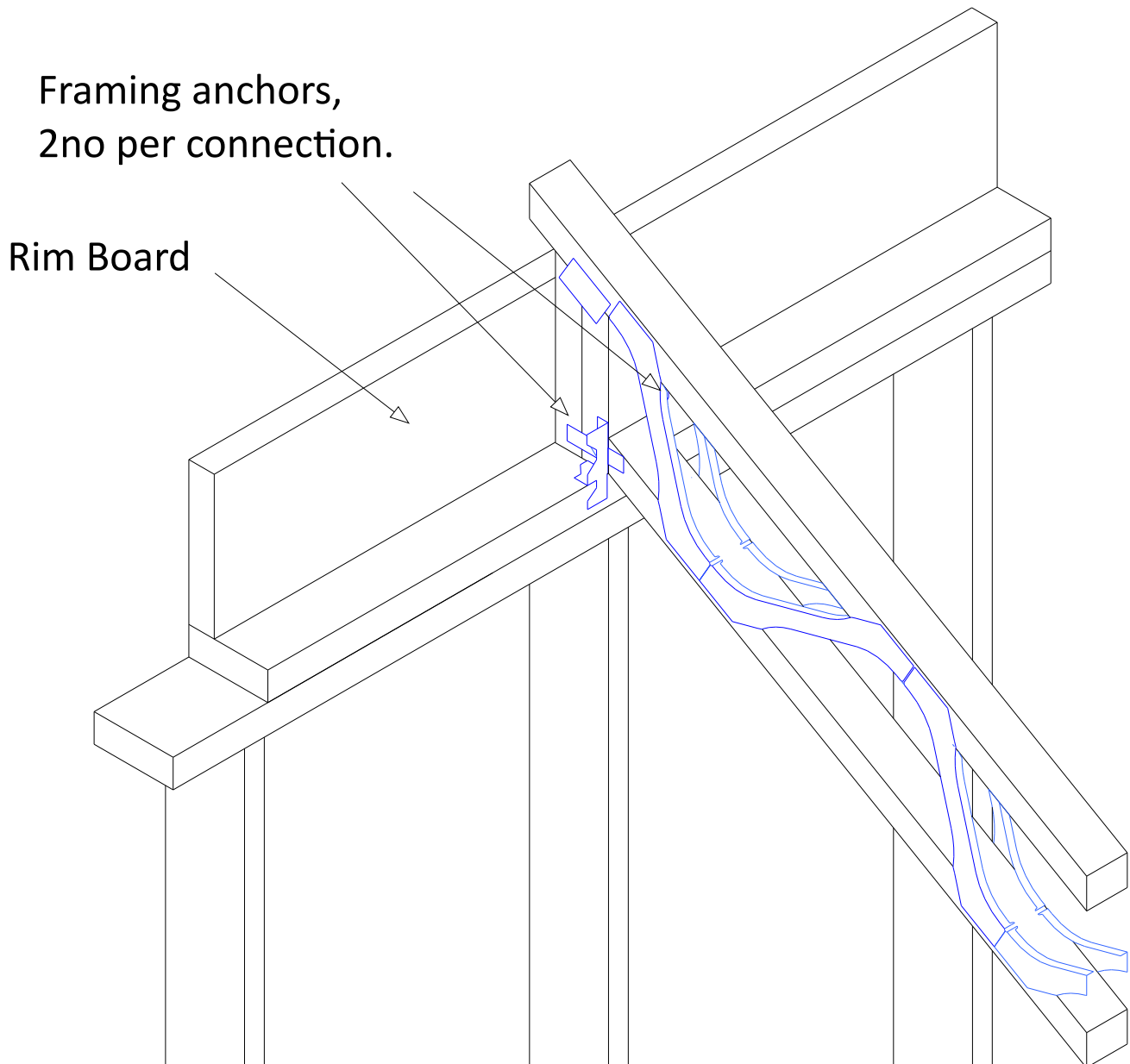
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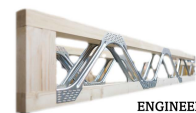
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Flatwise Posi-Rafters to Wallplate at Apex (Timber Frame)

Installation and fixing of framing anchor to be in accordance
with manufacturers details and recommendations

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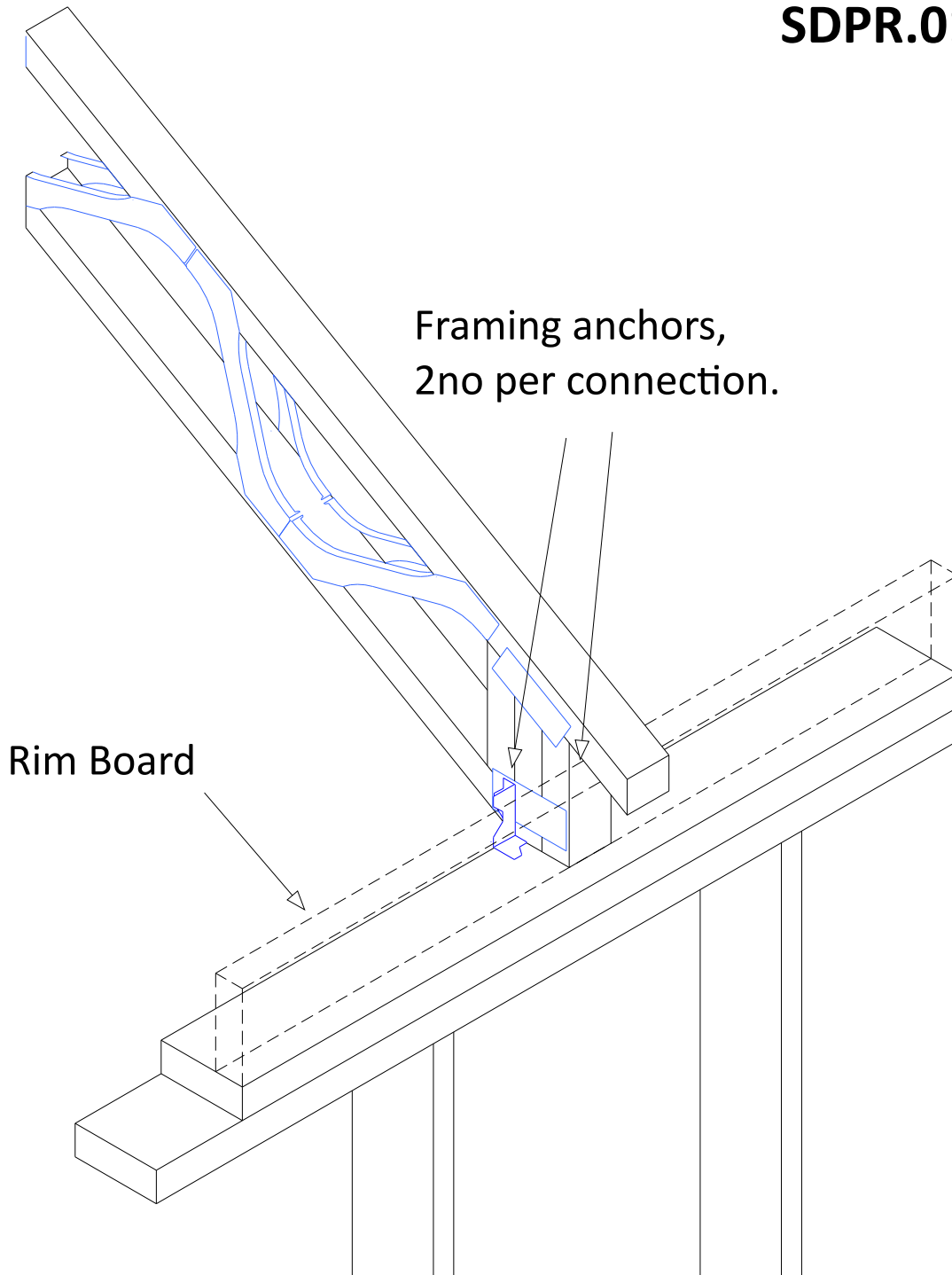


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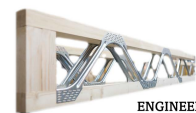
SDPR.01.10



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

Installation and fixing of framing anchor to be in accordance with manufacturers details and recommendations

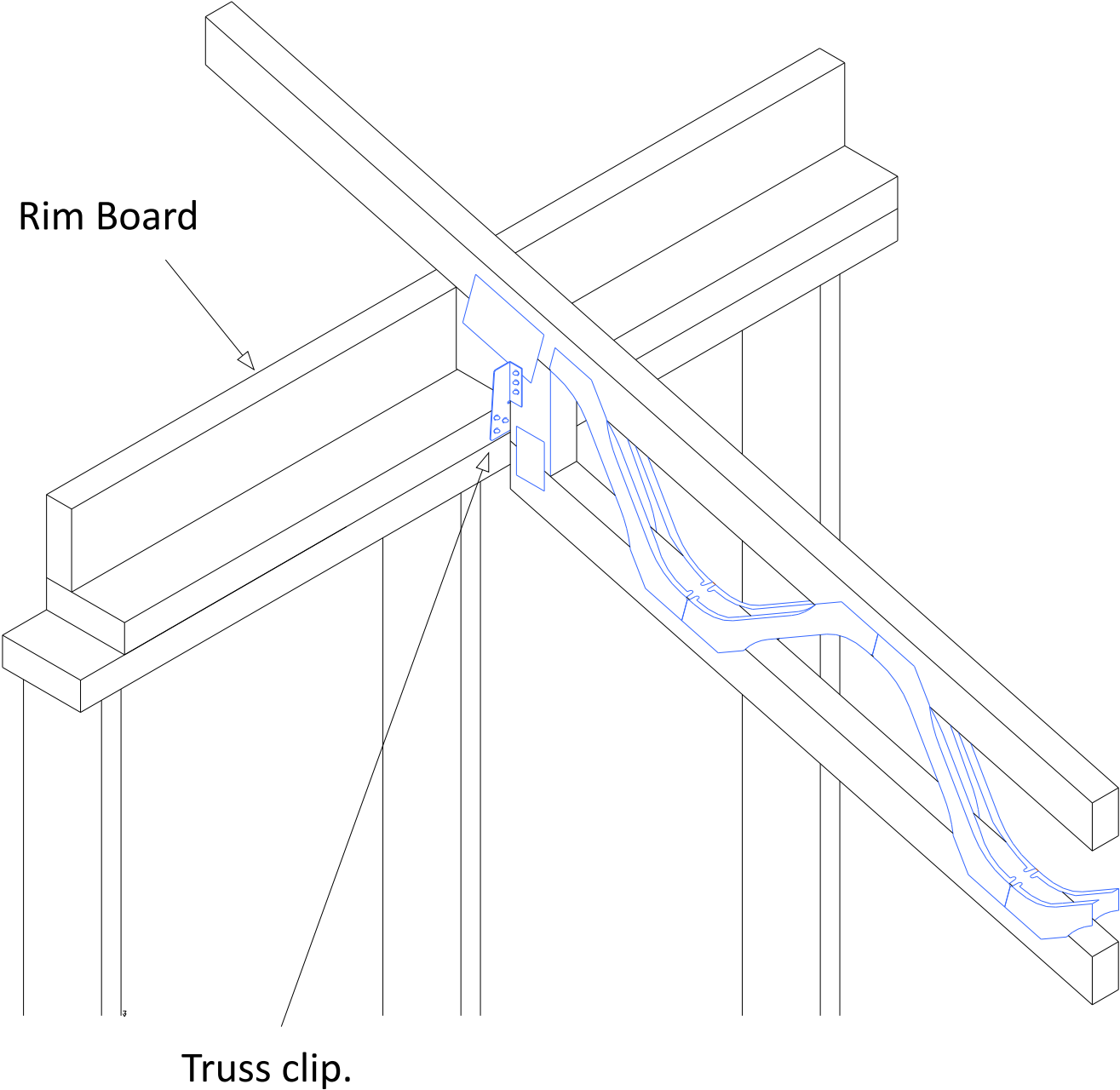
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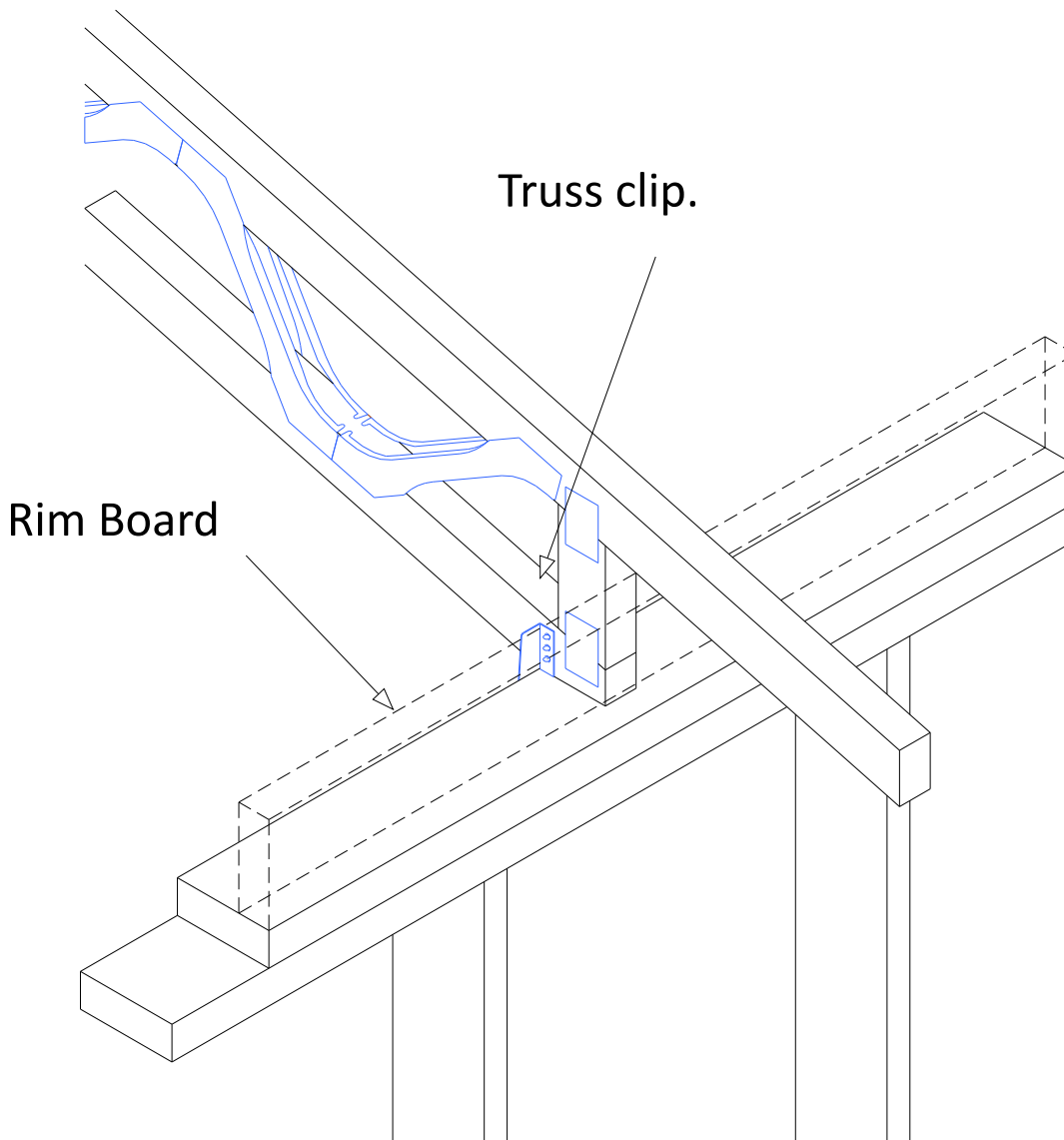
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Edgewise Posi-Rafters to Wallplate at Apex

Installation and fixing of truss clip to be in accordance
with manufacturers details and recommendations





Edgewise Posi-Rafters to Wallplate at Eaves

Installation and fixing of truss clip to be in accordance
with manufacturers details and recommendations

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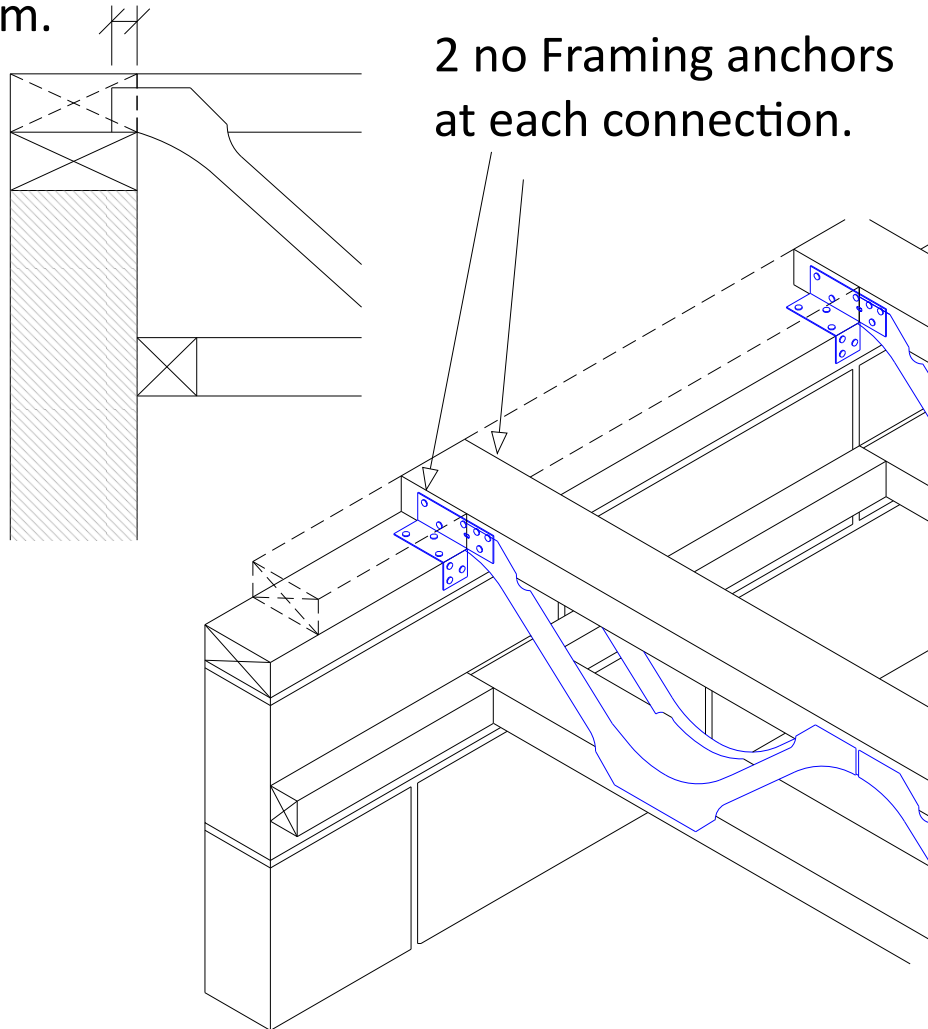


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Unless proven by design
the Posi-Strut should
overhang the bearing
by 15mm.



Flat roof Joist Top Chord Support

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

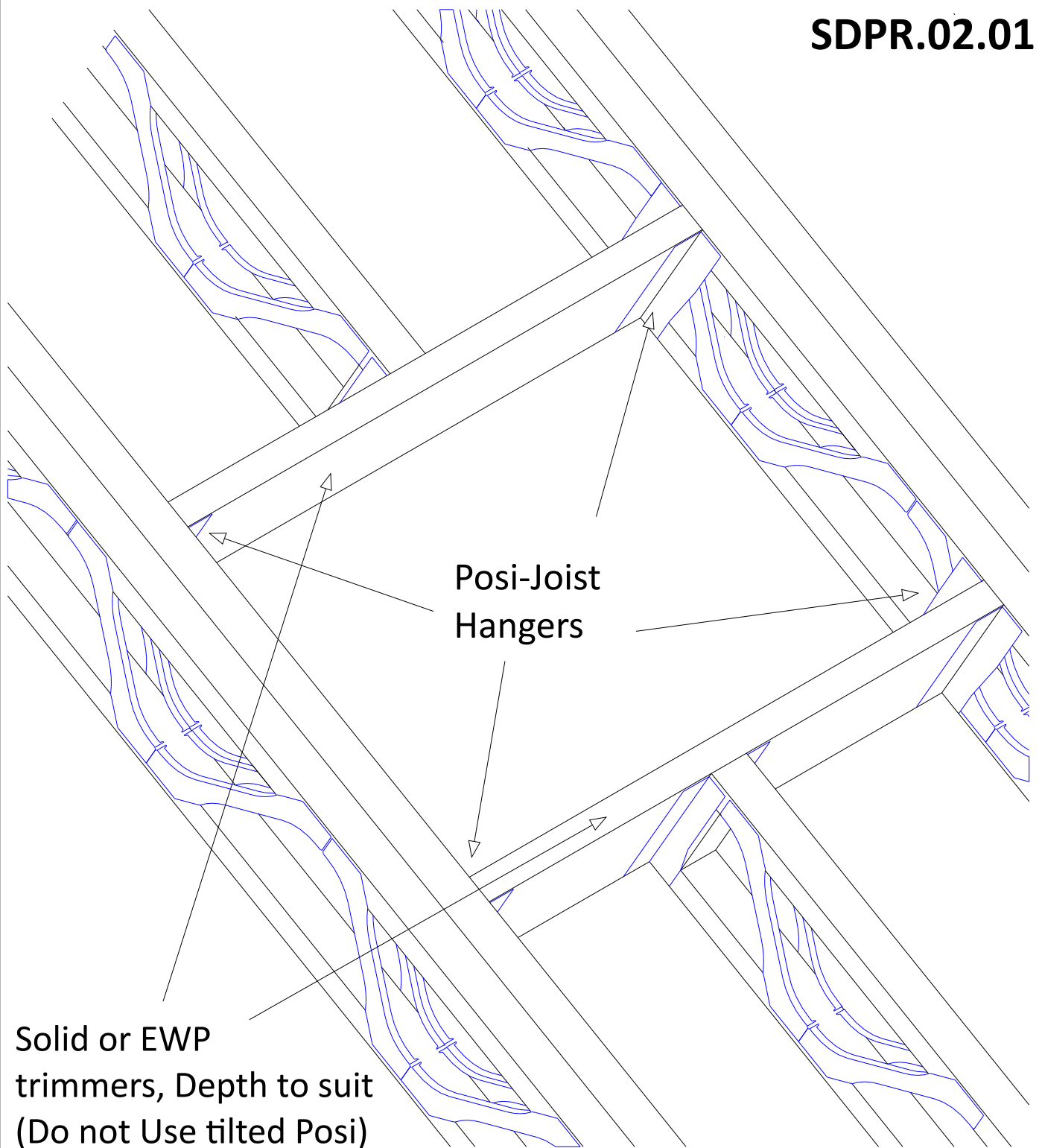
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Flatwise Posi-Rafters Trimmer detail (with hanger)

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

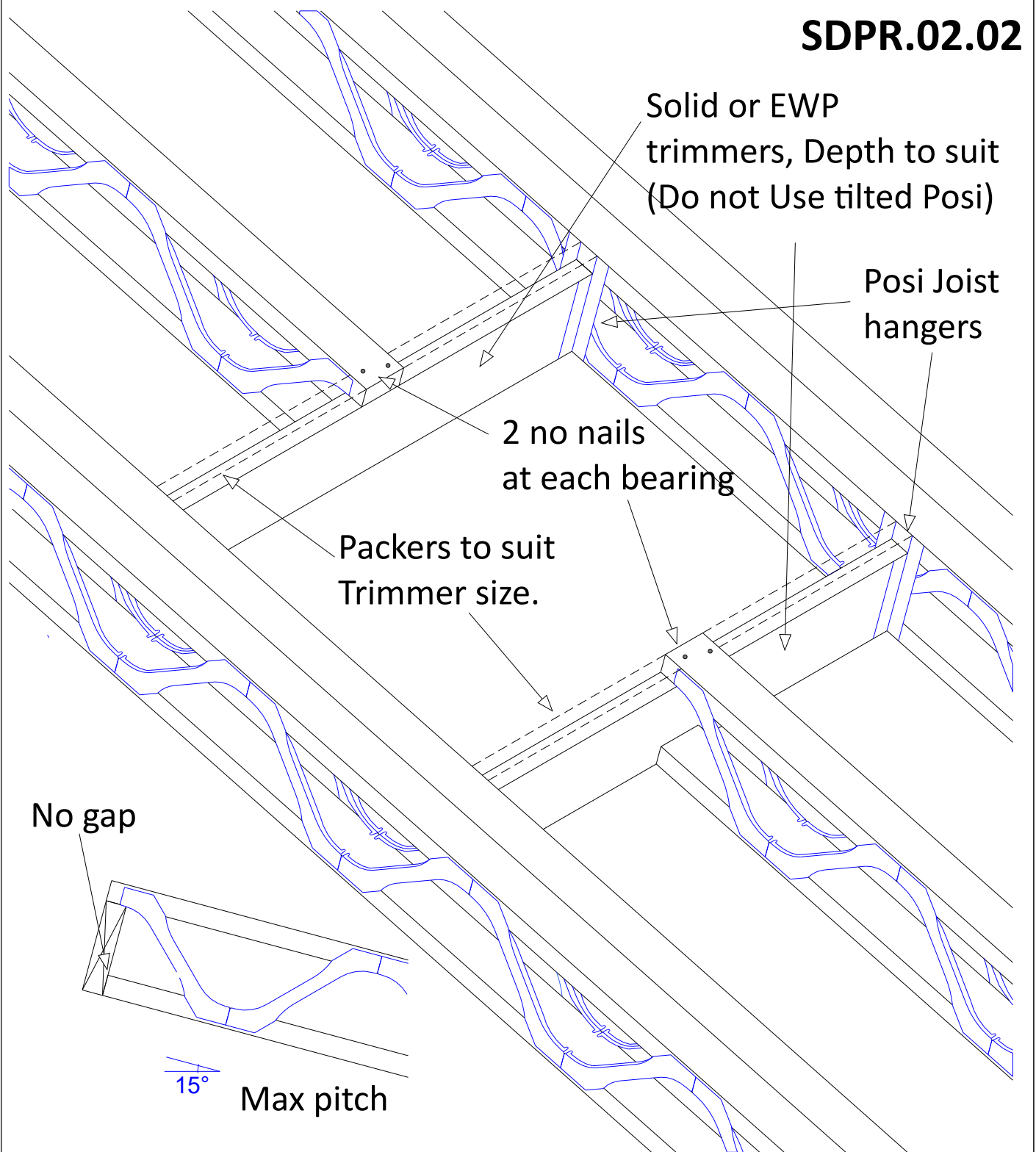


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SDPR.02.02



Flatwise Posi-Rafters

Trimmer detail (top chord fixing)

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

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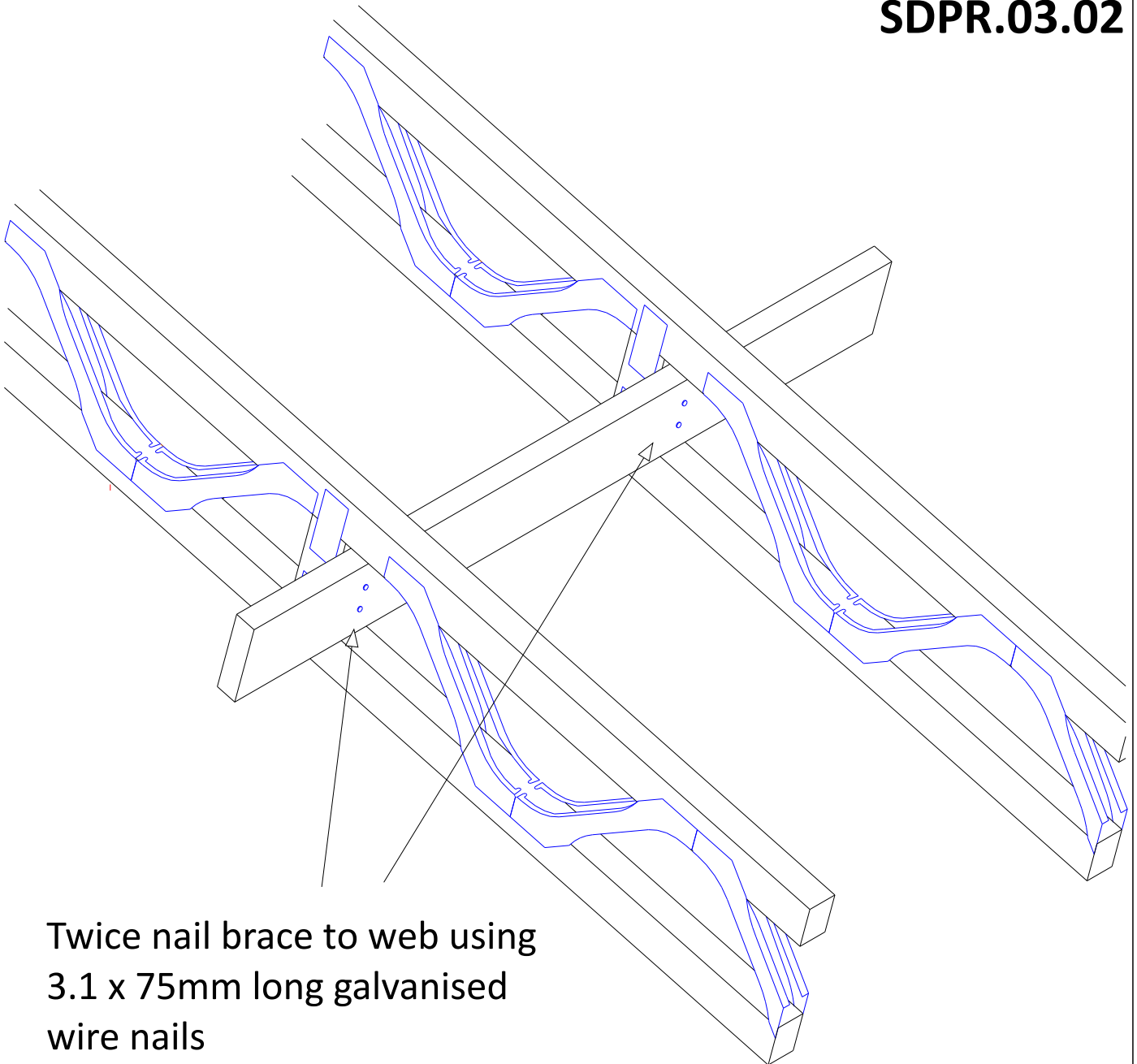
Min 35 x 72 C16 noggin fixed between rafters.

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

Posi-Rafters

Horizontal Restraint detail





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)

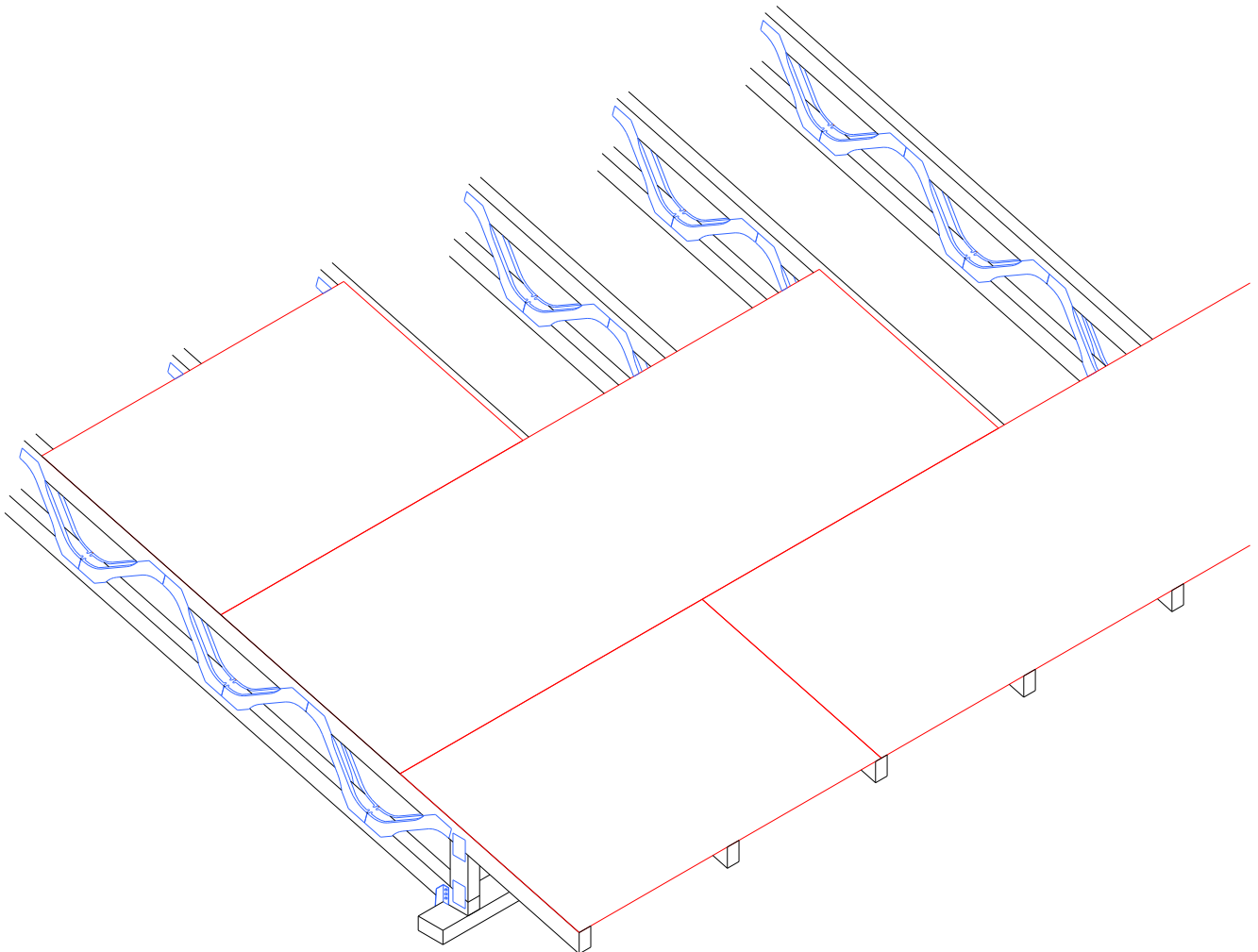
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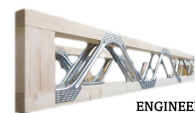
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Start at bottom left with tongue facing up slope.
Stagger joints vertically. Secure with fixing details
as recommended by the sheathing material supplier

Posi Rafter Sarking

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