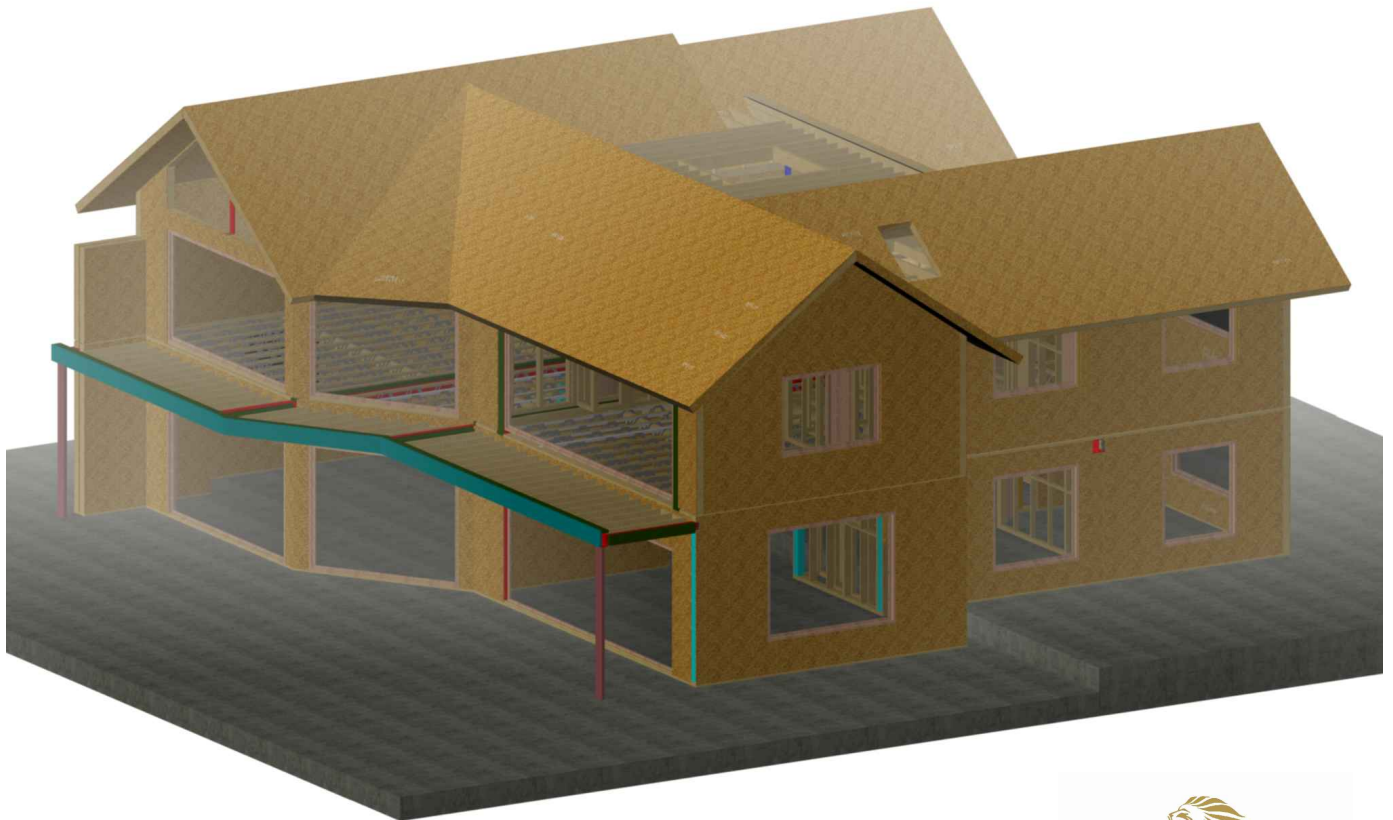




Glosford

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Standard Details



Glosford Timber Solutions Ltd.
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Ground works specification & requirements:

When building the ground floor construction (up to DPC) particular attention should be paid to ensuring that they are built accurately and to the specification requirements defined below.

Our preferred construction method for the sub-structure is for the formation of a structural floor to finish below DPC and for a concrete block/ring beam/upstand to be formed in masonry/concrete to terminate at external DPC height. This detail is to be at a consistent level throughout the building under all external and internal walls.

The upstand is to be of a suitable width to provide full width bearing for the soleplate we are placing on top of it. Generally our products are:

- 172mm SIP – 170mm wide (minimum) 7n/mm² wide shuttered concrete upstand/cut down block/full block
- 142mm SIP – 140mm wide (minimum) 7n/mm² wide shuttered concrete upstand/full block
- 140mm timber frame panel - 140mm wide (minimum) 7n/mm² concrete upstand/full block
- 89mm timber frame panel - 90mm wide (minimum) 7n/mm² concrete upstand/full block

The above are offered as suggestions as other solutions and construction materials are acceptable, but Glosford Timber Solutions should be consulted before these materials are built in-situ to ensure that suitable anchorage can be achieved from your proposal. For example, the use of standard density thermalite blocks is not acceptable.

The required **tolerance** for the positioning of the above upstand is:

- +0mm -10mm vertically
- +/-5mm on wall lengths
- +/-10mm on diagonal check lengths

For the fixing down of our soleplates we are commonly fixing through the soleplate timber, through any packers we have had to use, in to every block (every 450mm) to meet with our engineer's requirement. We will pack under the soleplate to level using non-loadbearing packers to the underside of the soleplate. These packers are for a temporary loading condition only and prior to any additional loads being applied to the building structure the soleplates are to be grouted in to position using a non-shrink structural grout. This is not included within our package.

Sometimes within the structure, **steel posts** with horizontal loads are required in order to make the building structurally sound. In this instance we require the ground worker to construct a concrete pad to terminate flush with the top of the structural floor. This pad is to be designed by your engineer to take the loads identified by our engineer. We will provide the steel posts, baseplate and holding down bolts to meet with our engineers requirements for site fixing to this pad. These posts will be sent to site allowing for 25mm of packing so that we can pack up the underside of the post to be at the correct height.

Once our work is complete, it is the responsibility of the client to ensure that the baseplates are grouted in to position using a non-shrink structural grout. This is not included within our package.



*Timber Engineered Products for
the Construction Industry*

Please note, the accurate positioning of the upstand and any concrete pads is critical to the successful build by Glosford and diligence should be paid when the building is set out. We would also suggest a competent person check and verify that our requirements have been met prior to the commencement of our site operations.

Glosford **MUST** be advised IF the base is outside of the above tolerances a minimum of 5 working days prior to our planned start date to enable some time to resolve any issues found.

Because of the 3D nature of a SIPs structure it is not possible without significant cost for the building to be modified to accommodate issues in an incorrectly constructed base. Should Glosford arrive on site and become aware of dimensional issues in the setting out of the base where they fall outside of the above specified requirements, Glosford Timber Solutions reserve the right to charge for downtime incurred.

Under our external wall soleplates we fit a standard type 450mm wide DPC positioned centrally under the wall and then mechanically fix down through the DPC into the supporting masonry. A minimum of 150mm wide DPC is used under internal timber frame walls. Where any DPM or Gas membranes are required on site, the membranes are to be fitted down after the completion of our works and the membranes be adhered to our DPC. This detail is to be checked by you (the client) for acceptance by your building warranty provider/building control to ensure suitability prior to our start on site. If this detail is not acceptable then we will review alternatives with you, to find a mutually beneficial outcome.

Vapour control layer

A vapour control layer is not required within a SIP wall or pitched roof construction for residential projects. A vapour control layer should be installed below any flat roof or low pitch roof where a composite breather membrane under metal roof finishes is being used. E.G. Tyvek Metal Breather Membrane.

Breather membrane

The breather membrane used by Glosford is approved for the application on walls and pitched roofs. The membrane provides the secondary layer of weather protection. The primary weather protection is from the roof finishes.

Adaptions to the membrane or additional membranes may be required so as to satisfy the requirements of the roofing contractor and building warranty provider. Glosford accept no costs with regards to this.

Plasterboard noggins by other

Glosford timber solutions install noggins in to their timber frame partitions for their own engineering and manufacturing requirements. These are not for plasterboard noggins and we do not include for these in our works

This Document covers the EN 1365-1 testing for the Kingspan TEK panel.

TECHNICAL NOTE

- Kingspan Insulation Limited have moved All of the Fire resistance testing that we undertake to the EN methods to fit with the European norm. The EN test methods are considered to be slightly more severe than the BS methods/ BS 476 parts 20, 21 and 22.

- The build-up tested was a:

15mm fire resistant plasterboard fixed to a 25mm timber batten-onto the 142mm TEK panel. The construction achieved 77minutes insulation and integrity. Report number 345653.

- Exova have confirmed the following through Assessment:

Internal Lining	TEK Panel	Fire resistance in minutes
9.5mm regular Plasterboard*	142 or 172mm	30 mins
1x 12.5mm Fire resistant PB	142 or 172mm	60 mins
1x 15mm Fire resistant PB	142 or 172mm	77 mins (test result)
2x 12.5mm Fire resistant PB	142 or 172mm	90 mins
1x 12.5mm Magnesium Oxide or similar	142 or 172mm	120 mins minimum (product board can be fitted to the outside should the fire resistant level be required in both directions)

*Other internal finishes can be used please discuss with Kingspan Insulation Ltd

FURTHER DETAILS

- We trust the foregoing technical note is of assistance. Please do not hesitate to contact us in the event of any further queries.

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EN 1365-1 Testing on Kingspan

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Application	Fastener Type	Spacing
Fixing soleplate or combined soleplate and bottomplate	Specifications should be in accordance with project structural engineers' recommendations based upon geography and project foundation substructure	Spacing to project engineers' recommendation
Panel straps to substructure/foundations	Specifications should be in accordance with project structural engineers' recommendations based upon geography and project foundation substructure	As per project structural engineers' recommendations
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing 15mm x 100 OSB3 splines into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing insulated splines or timber posts between Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bevelled headplate to Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System wall panels at corner joints	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 400mm c/c, unless engineer specifies otherwise
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise
Fixing joist hangers to headplate or laminated beams	Typically Ø3.3 x 40mm nails (fixings may vary depending on specification of joist hanger - please refer to manufacturers' instructions floor systems)	Into side and top of headplate locations marked out
Fixing posi joists to joist hanger	Typically 3.75mm x 30mm square twist nails (fixings may vary depending on specification of joist hanger - please refer to manufacturers' instructions floor systems)	In pre-drilled holes for bottom flange
Fixing plywood/chipboard floor decking to joists, headplate or header joist	3.1mm x 63mm galvanized ring-shank nails	Maximum 100mm centres
Fixing brickwork cavity wall ties to Kingspan TEK Building System wall panels	Simpson Strong Tie SWT50 wall ties fixed to SIP panels with stainless steel screws.	Where basic wind speed does not exceed 52m/s: 4.4 ties per m ² If exceeds: 7 ties per m ²
Fixing treated timber counter battens to Kingspan TEK Building System wall/roof panels for ventilation	ABC Spax 5mm x 60mm or EJOT M5 70mm stainless steel screws or equivalent (to penetrate through 15mm OSB/3 face)	Typically 300mm centres. For further guidance follow project structural engineers' recommendations
Fixing Timber Frame to Soleplate	3.1mm x 63mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing Timber Frame Panels to SIPs	Rothoblaas TBS 8mm Ø SIP screws or similar	Typically at 400mm c/c, unless engineer specifies otherwise
Fixing Non-Load Bearing Timber Frame soleplates and head binders to joist noggins	3.1mm x 90 mm galvanized ring-shank nails	Skew fix 2no nails per noggin
Fixing Kingspan TEK Building System to timber packer	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment into packer only	400mm c/c to walls and 300mm c/c to roofs, unless engineer specifies otherwise
Fixing Timber Frame Party Wall Panels to Glulam Header Beam	Rothoblaas TBS 8mm Ø x 140mm SIP screws or similar	Typically at 600mm c/c, unless engineer specifies otherwise
Fixing timber packer to others oak frame	Rothoblaas TBS evo+ 6mm Ø SIP screws 50mm min. embedment into oak	Typically at 200mm staggered c/c, unless engineer specifies otherwise



Fixing Specifications

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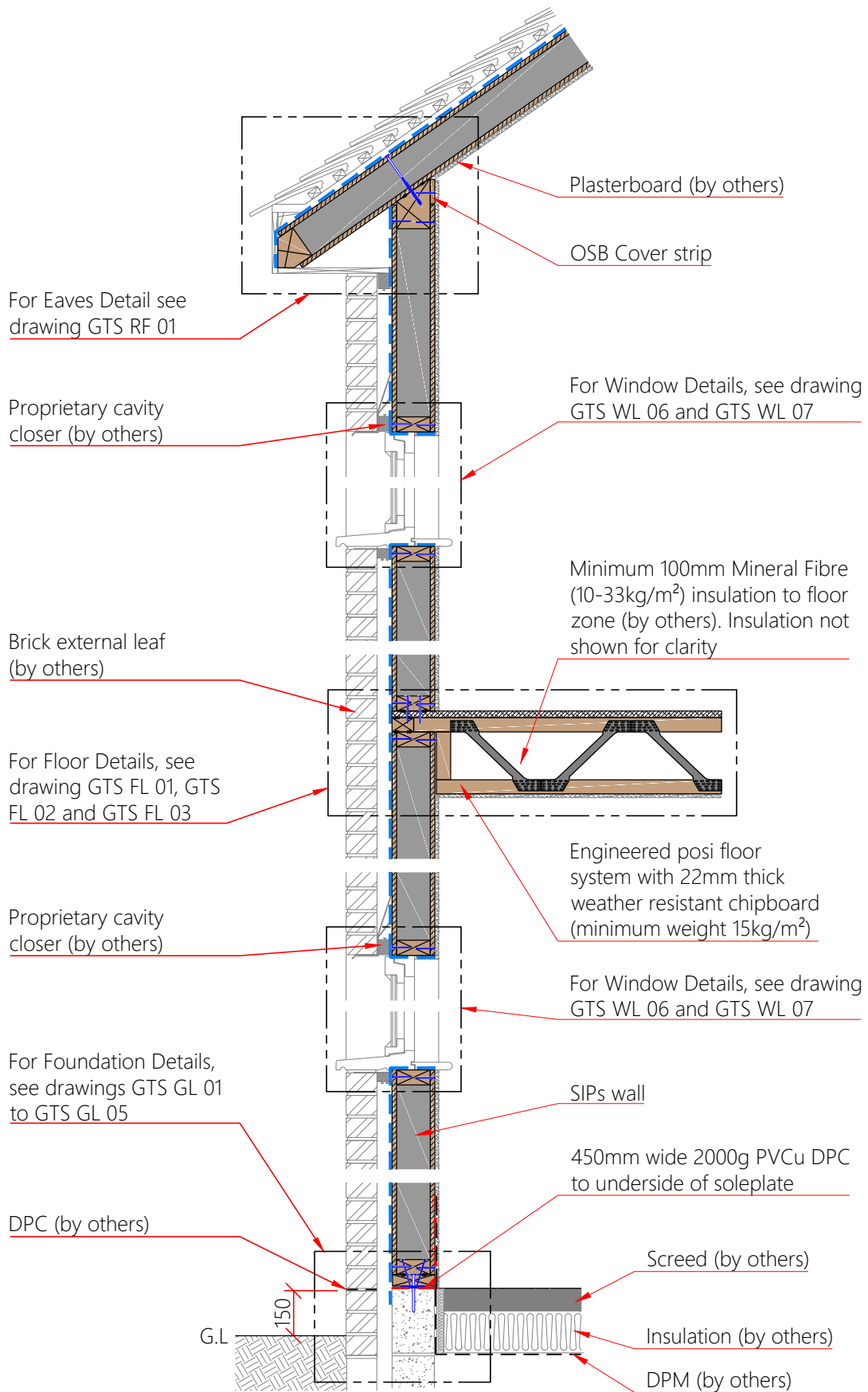
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External Wall Detail

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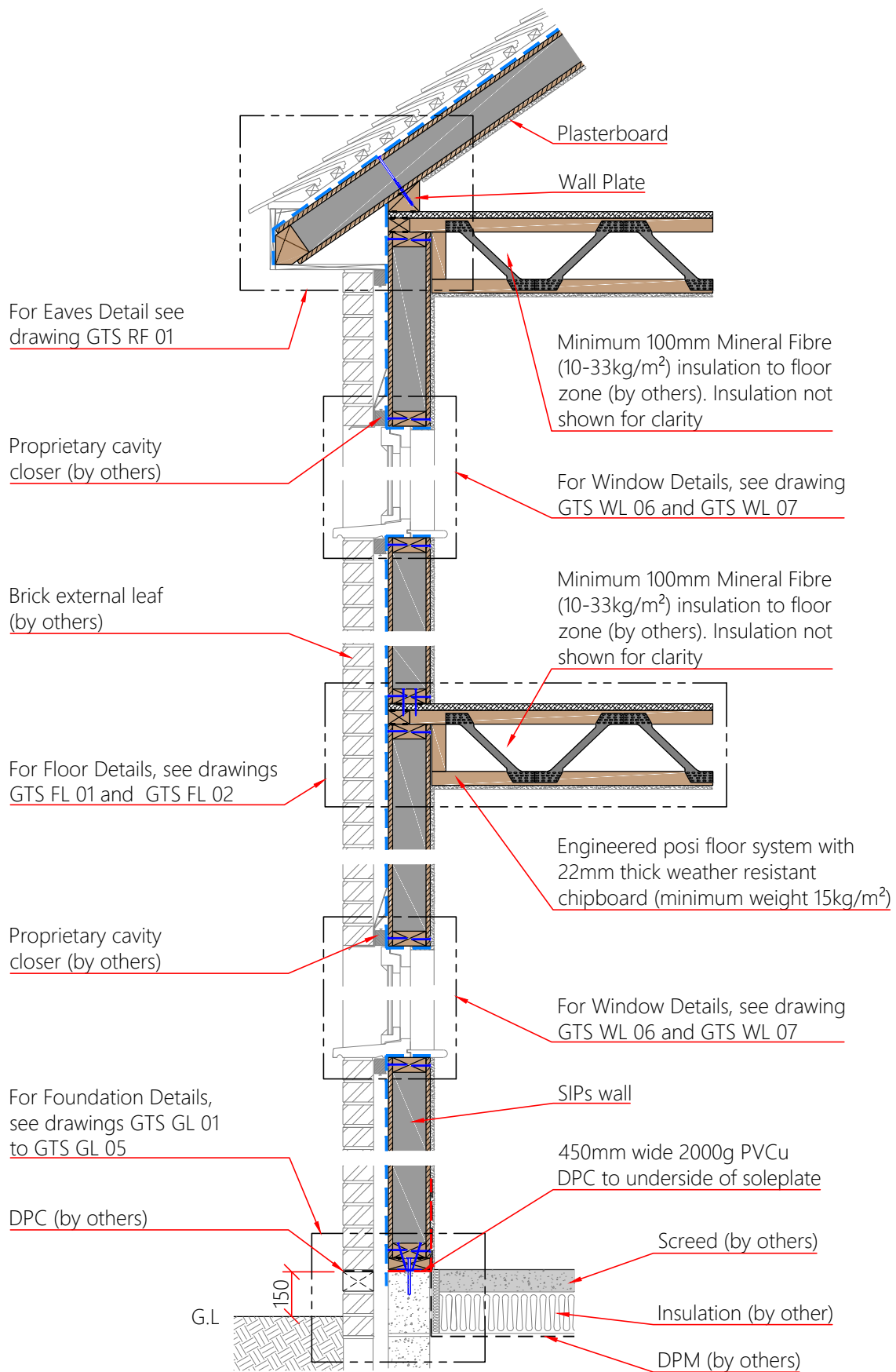
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External Wall Detail: Additional Floor

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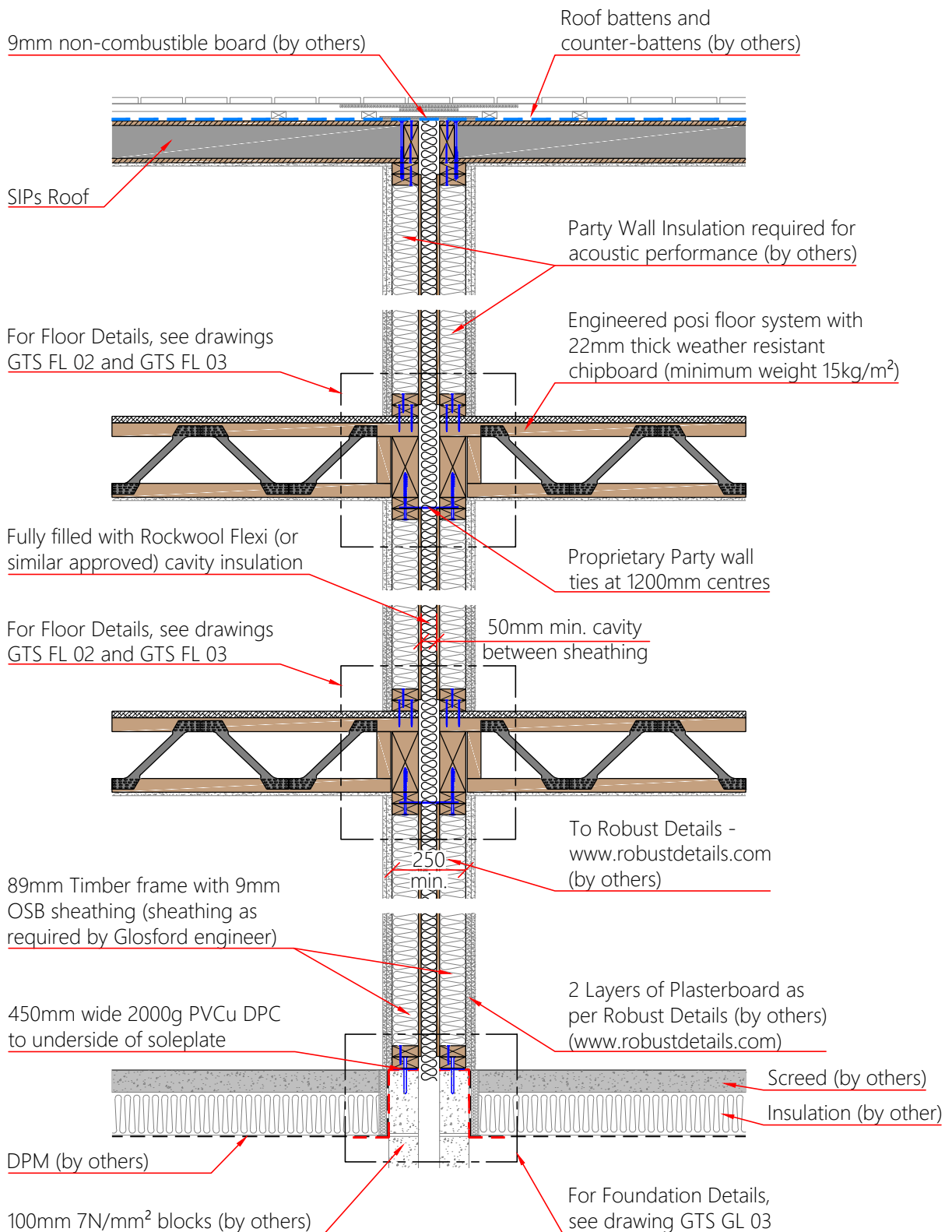
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Party Wall Detail: 2 ply 89mm Timber Frame

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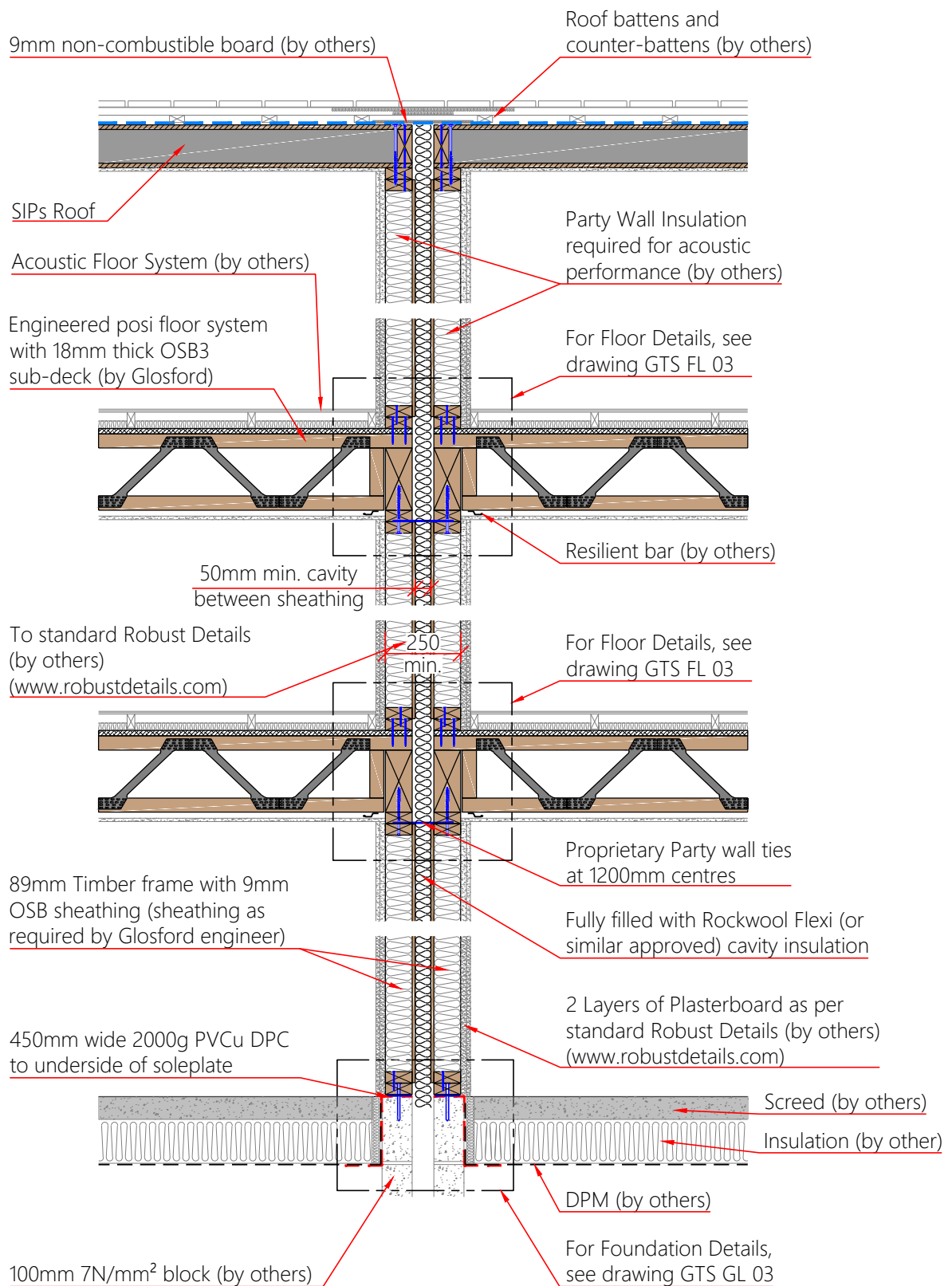
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Party Wall & Floor Detail: 2 ply 89mm Timber Frame

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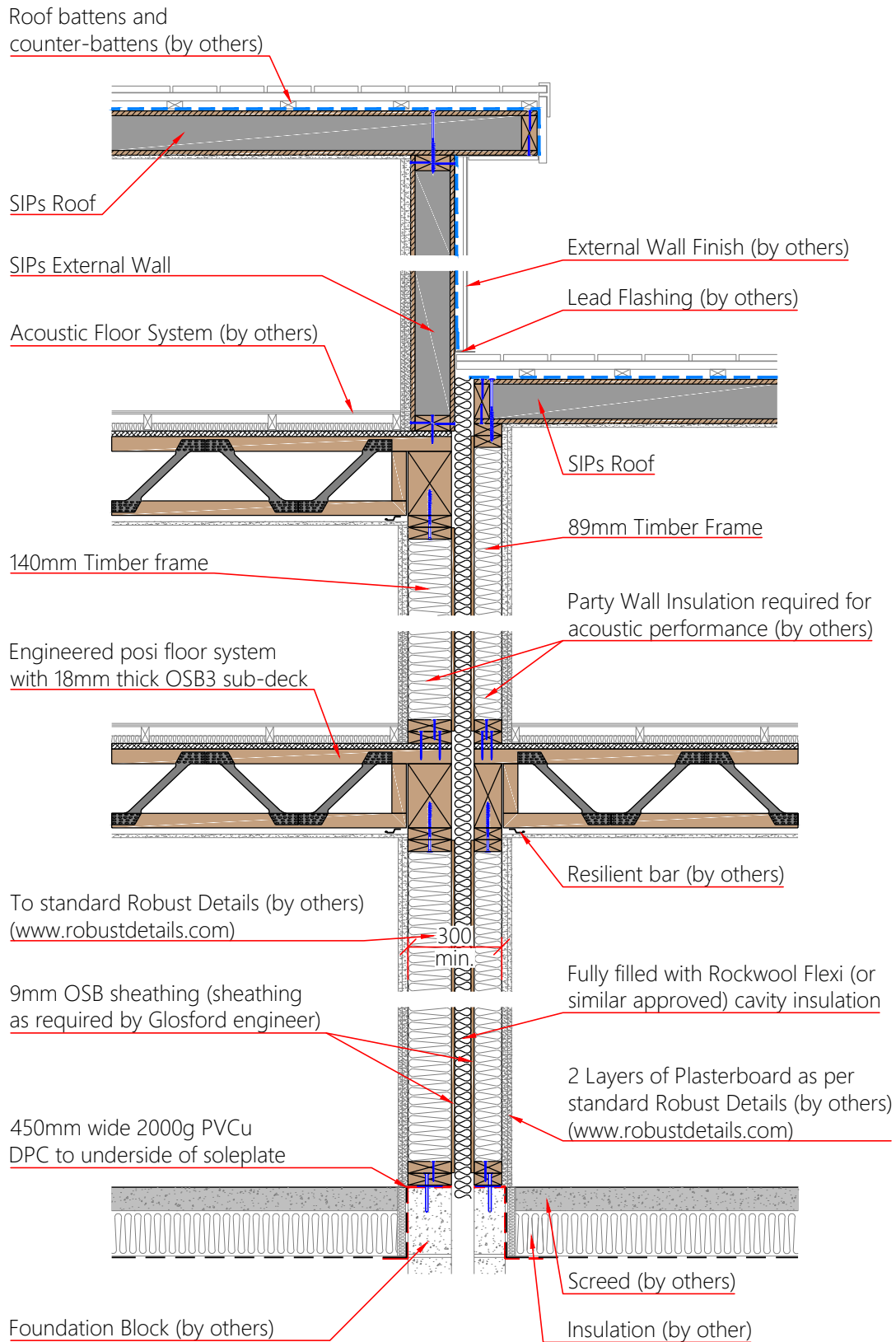
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Party Walls & Floors In Different Height Buildings

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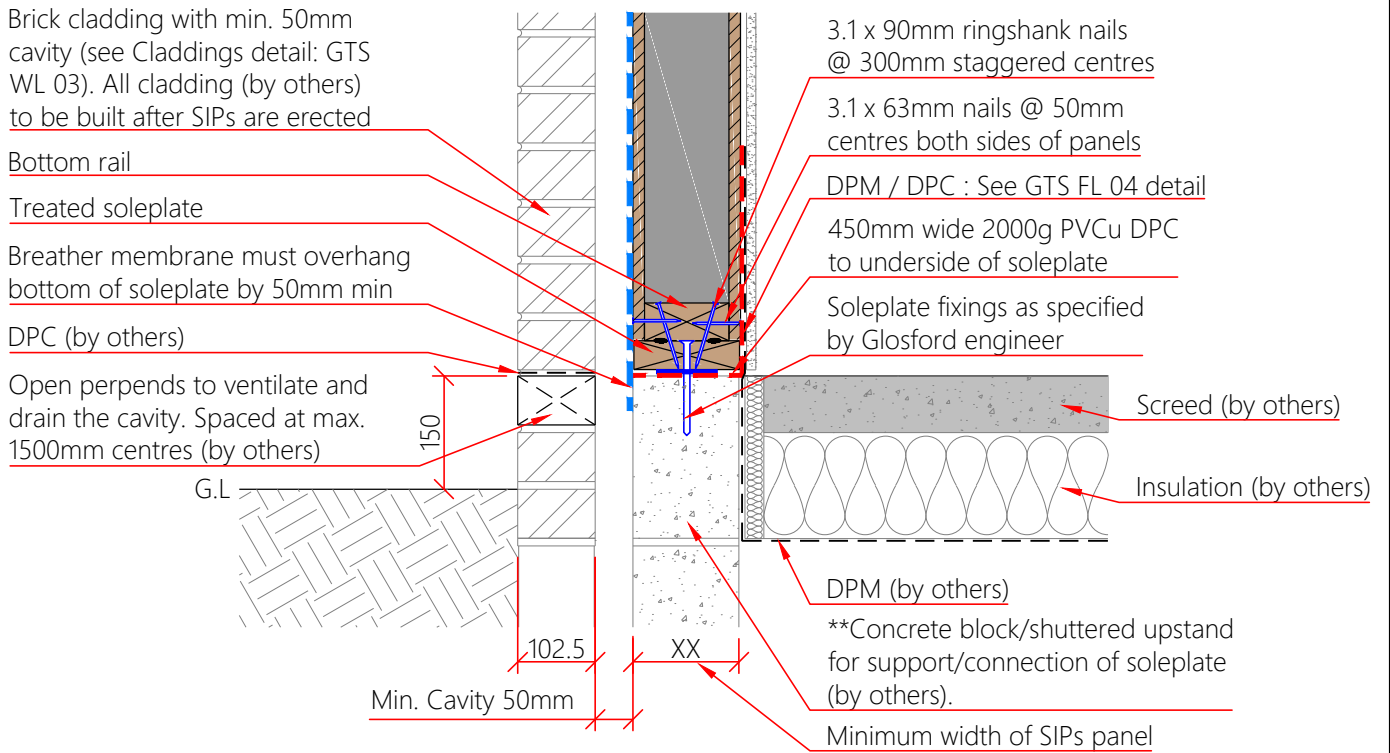
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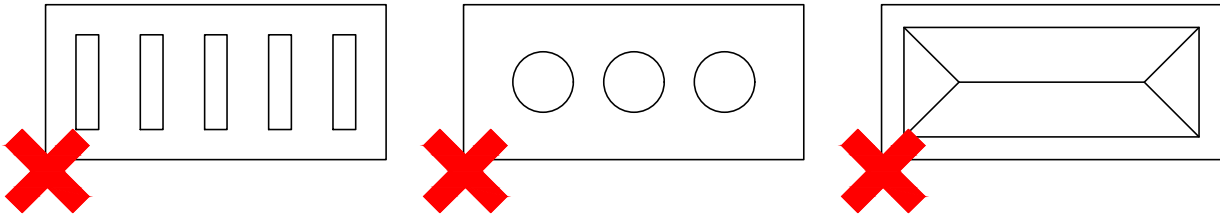


**All masonry blocks below sole plates are to be a MINIMUM of 7N/mm² crushing strength concrete blocks to BS EN 771.

Use of Aircrete Bricks and Blocks will not be accepted by Glosford.

Use of Class A and Class B engineering bricks are not structurally acceptable.

THE BELOW BRICK TYPES ARE NOT PERMITTED



Application	Fastener Type	Spacing
Fixing soleplate or combined soleplate and bottomplate	Specifications should be in accordance with project structural engineers' recommendations based upon geography and project foundation substructure	Spacing to project engineers' recommendation
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing 15mm x 100 OSB3 splines into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels



Foundation Detail: Brick Cladding

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Cladding: polymer render or timber, fixed on timber battens (sized by architect's project) at 400c/c (by others). See Claddings detail: GTS WL 03

Treated soleplate

Insect Mesh (by others)

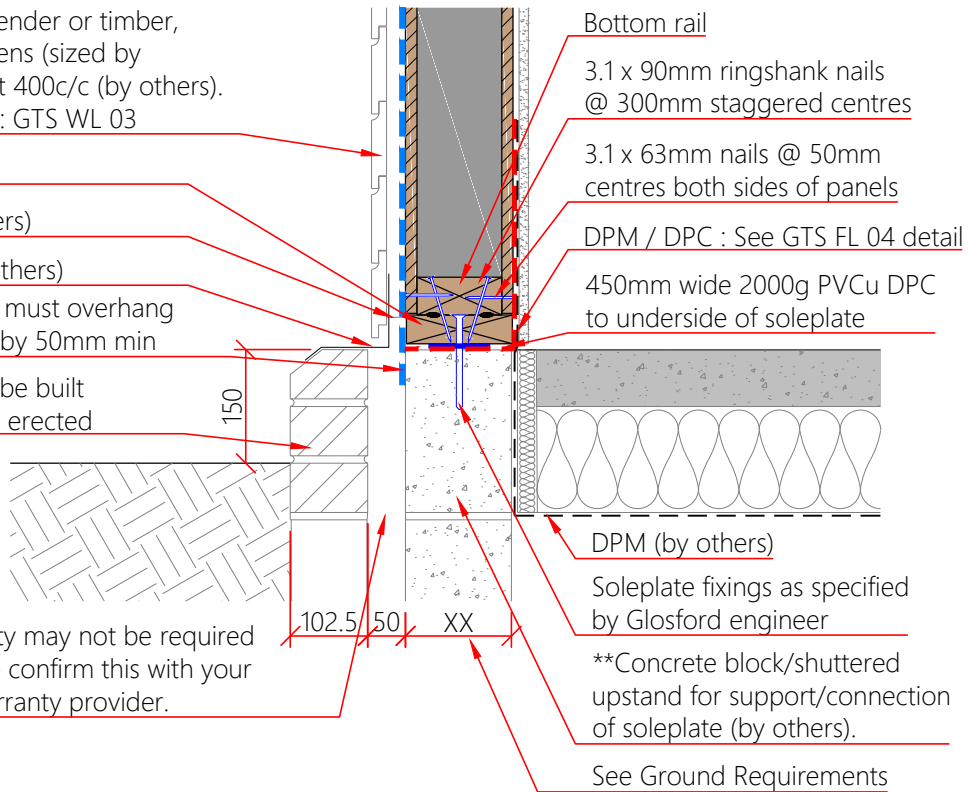
Lead Drip Tray (by others)

Breather membrane must overhang bottom of soleplate by 50mm min

Plinth (by others) to be built after SIPs have been erected

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A clear cavity may not be required here. Please confirm this with your building warranty provider.

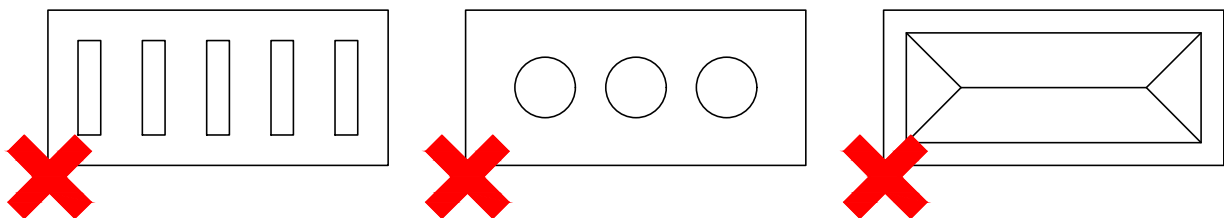


**All masonry blocks below sole plates are to be a MINIMUM of 7N/mm² crushing strength concrete blocks to BS EN 771.


Use of Aircrete Bricks and Blocks will not be accepted by Glosford.

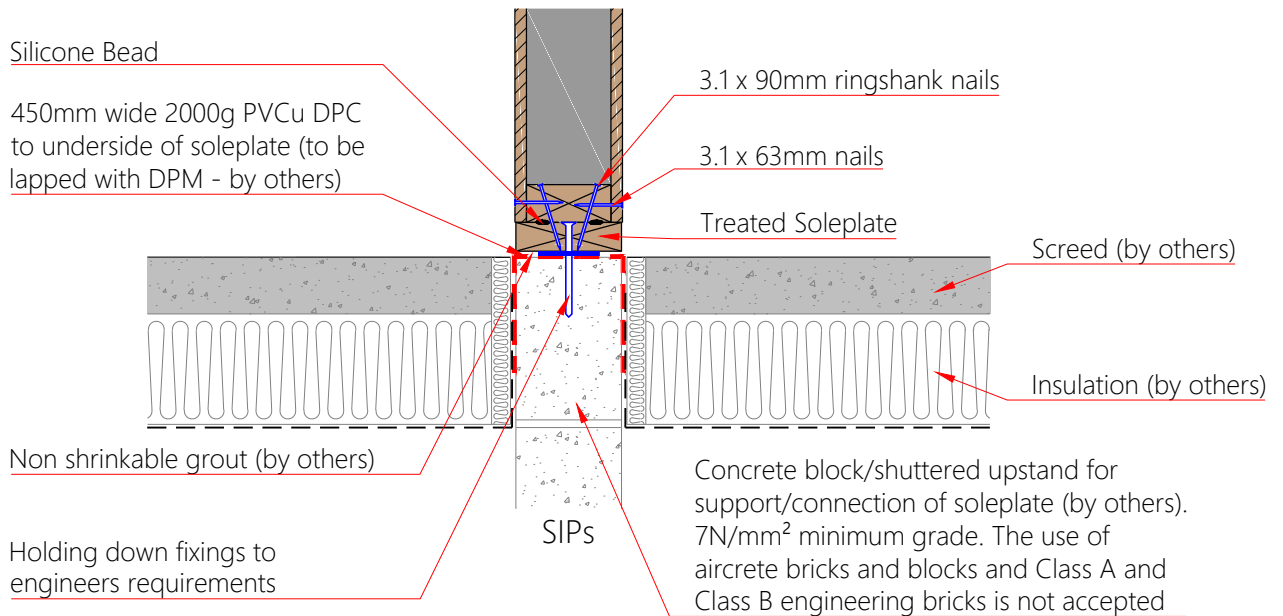
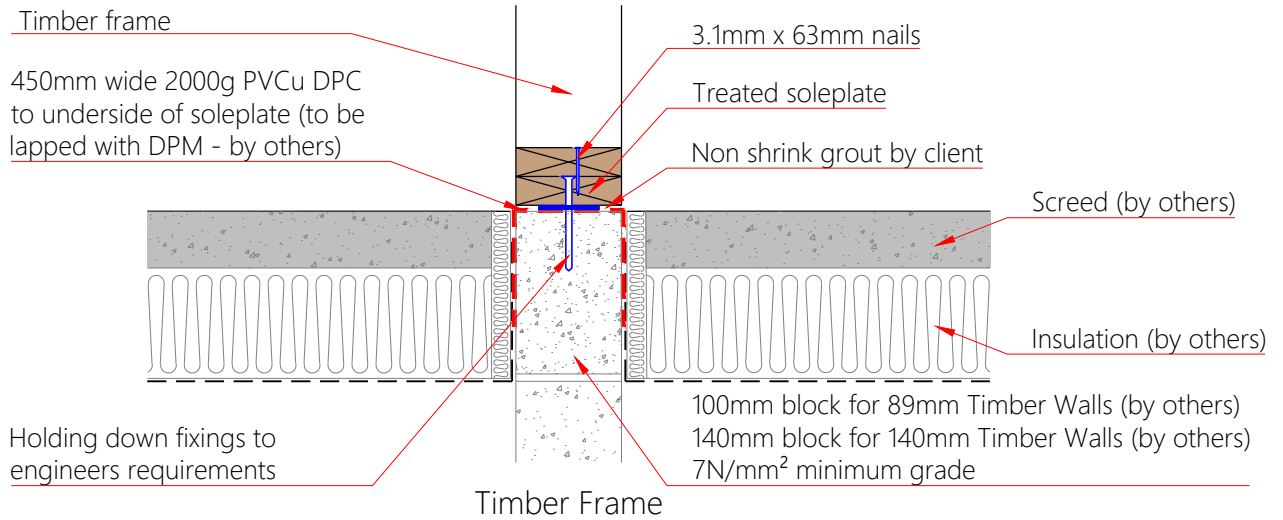
Use of Class A and Class B engineering bricks are not structurally acceptable.

THE BELOW BRICK TYPES ARE NOT PERMITTED



Application	Fastener Type	Spacing
Fixing soleplate or combined soleplate and bottomplate	Specifications should be in accordance with project structural engineers' recommendations based upon geography and project foundation substructure	Spacing to project engineers' recommendation
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing 15mm x 100 OSB3 splines into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels

	<h2>Foundation Detail: Cladding</h2>		Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk		
			Scale: 1:10	Date: 04/12/2017	Drawn By: M.B.



Application	Fastener Type	Spacing
Fixing soleplate or combined soleplate and bottomplate	Specifications should be in accordance with project structural engineers' recommendations based upon geography and project foundation substructure	Spacing to project engineers' recommendation
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing 15mm x 100 OSB3 splines into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Timber Frame Panels to SIPs	Rothoblaas TBS 8mm Ø SIP screws or similar	Typically at 400mm c/c, unless engineer specifies otherwise



Foundation Detail: Internal Wall

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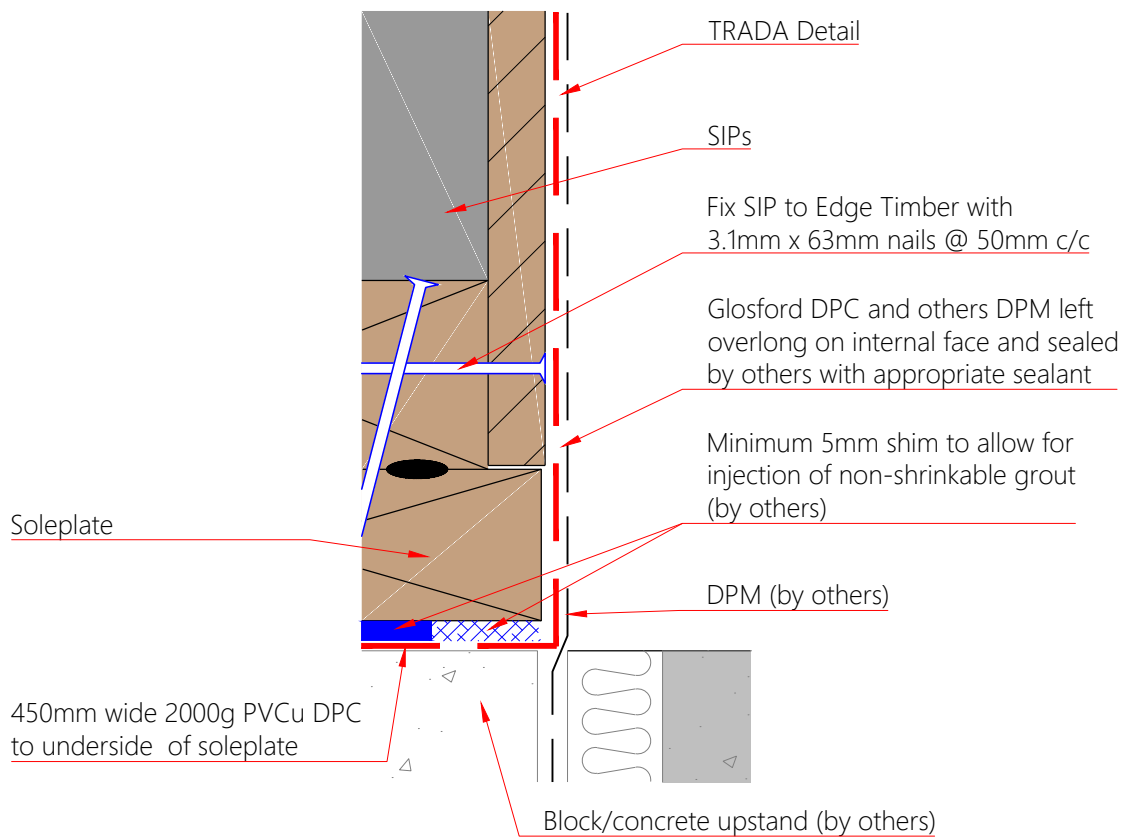
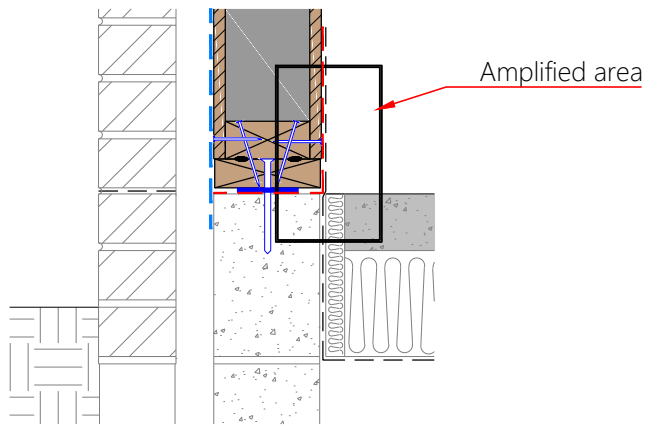
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Foundation Detail: DPC and DPM

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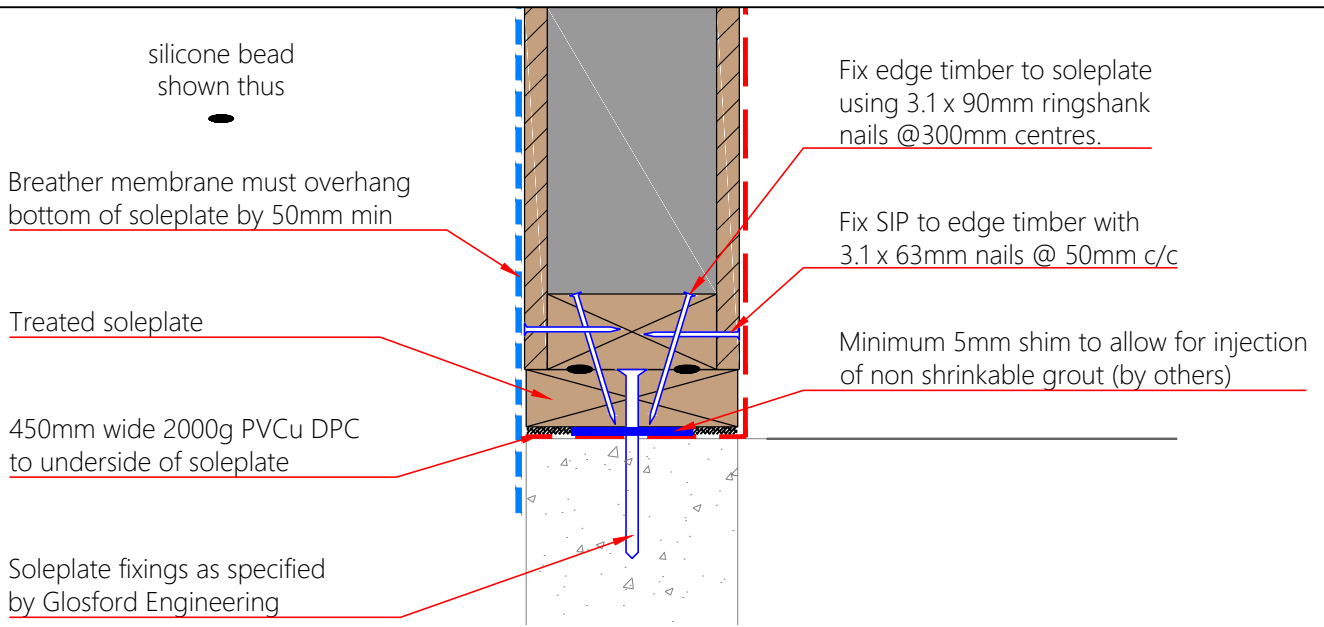
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS GL 04


Rev:
A



Notes:

- 1). Substructure to be ± 5 mm in level, ± 10 mm in line.
- 2). Soleplates must be level, square and straight. Soleplates to be levelled on PVCu packers. Continual structural grout is to be carried out by main contractor / client to provide the longterm load transfer of the soleplate to the foundation.
- 3). Structural grout to be installed prior to the cladding of the building being commenced.
- 4). Soleplate may require packing level, which will be by Glosford to a maximum of 20mm with non load bearing shims.
- 5). Soleplates to be fixed down to foundation with proprietary fixings at centres agreed by Glosford engineer.
- 6). Soleplates must be fully supported and not overhang or set back from slab by more than 20 mm (NHBC 6.2-S2).
- 7). SIP soleplate should be a minimum of 150mm above external ground level.

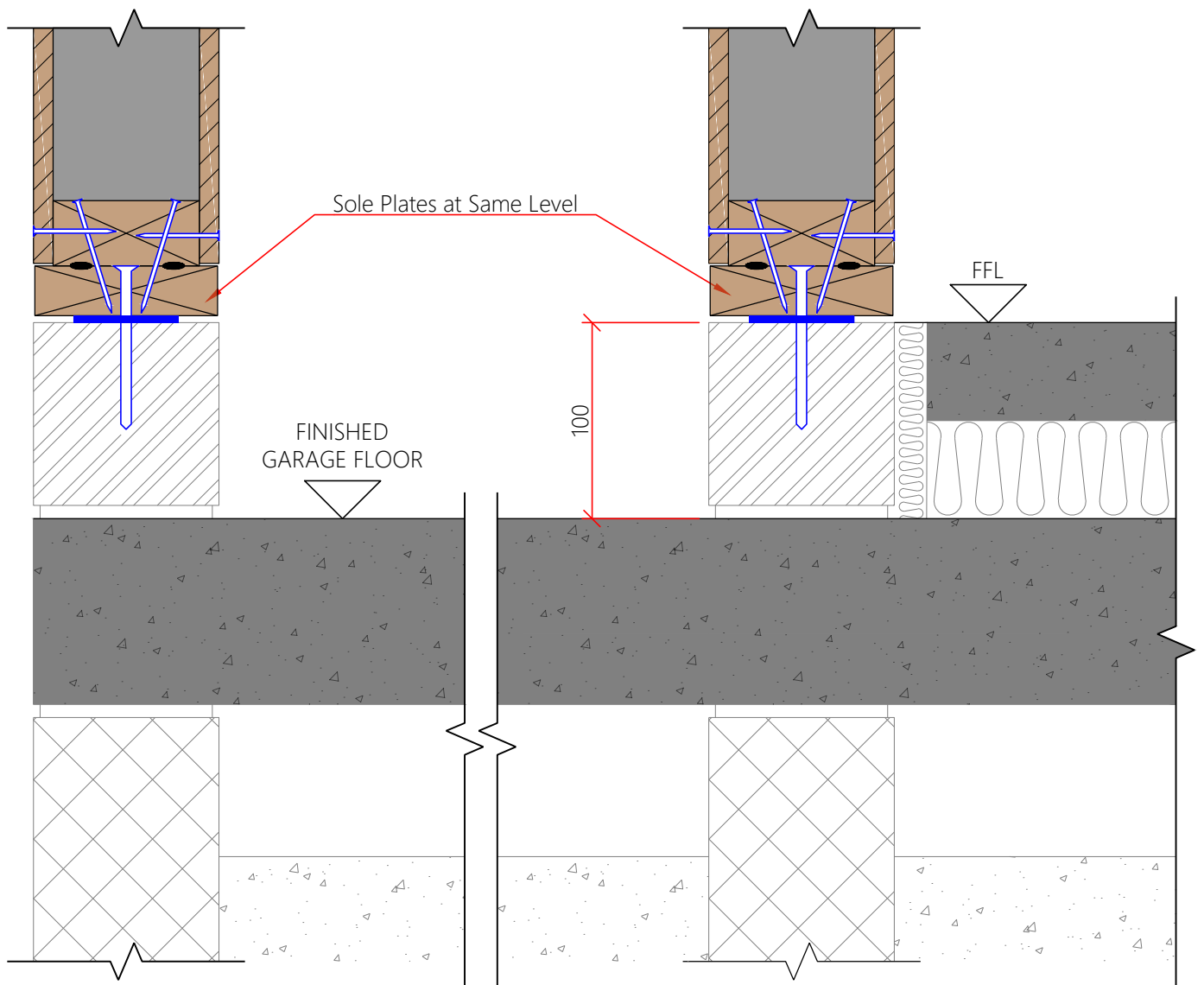
Application	Fastener Type	Spacing
Fixing soleplate or combined soleplate and bottomplate	Specifications should be in accordance with project structural engineers' recommendations based upon geography and project foundation substructure	Spacing to project engineers' recommendation
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing 15mm x 100 OSB3 splines into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels

	<h2>Soleplate/Packer Detail</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>		
	Scale: 1:5	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS GL 05	Rev: A

Garage Notes:

Garage finished floor level to be 100mm minimum below house finished floor level. Sole Plate to be at one level throughout.

Two layers of 12.5mm plasterboard to garage walls and a minimum of 30mm plasterboard to ceilings.



Garage Soleplate Setting Out

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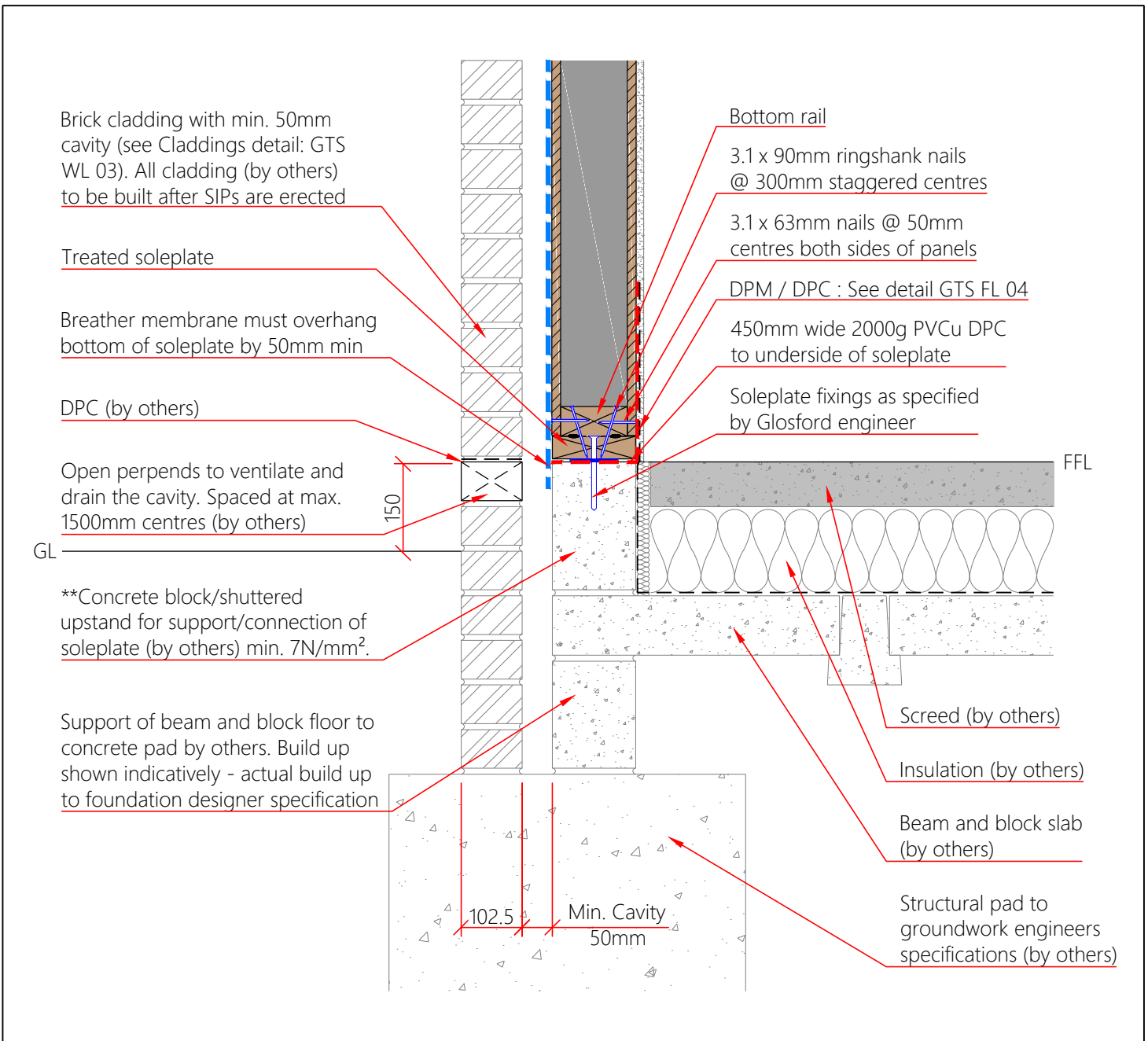
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Date:
04/12/2017

Drawn By:
M.B.

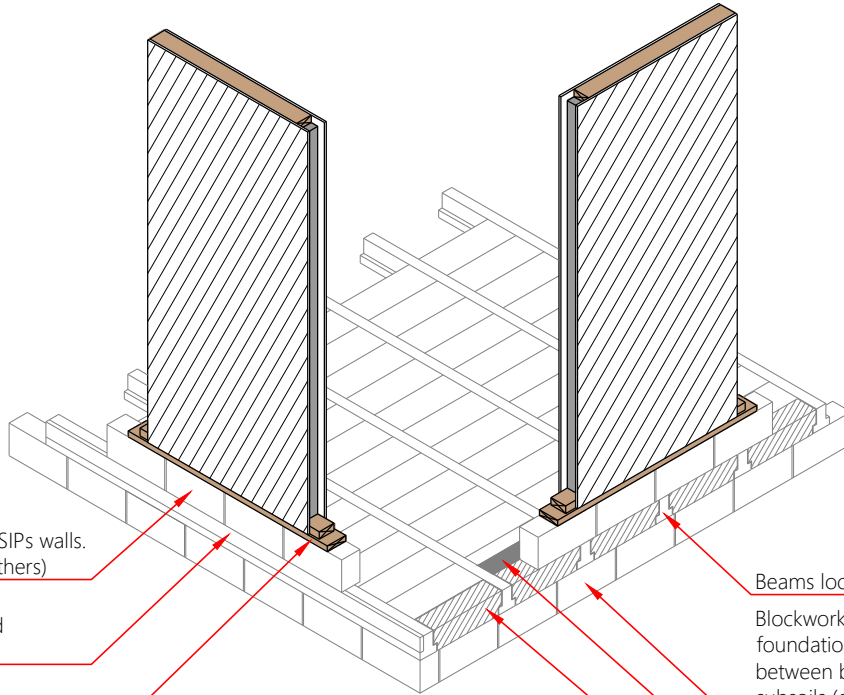
Drawing No:
GTS GL 06

Rev:
B



Application	Fastener Type	Spacing
Fixing soleplate or combined soleplate and bottomplate	Specifications should be in accordance with project structural engineers' recommendations based upon geography and project foundation substructure	Spacing to project engineers' recommendation
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing 15mm x 100 OSB3 splines into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels

	<h1>SIPs to Beam and Block Floor Detail</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>		



Blockwork upstand below SIPs walls.
(Minimum 7N/mm² - by others)

Blockwork upstand located
on edge beam (by others)

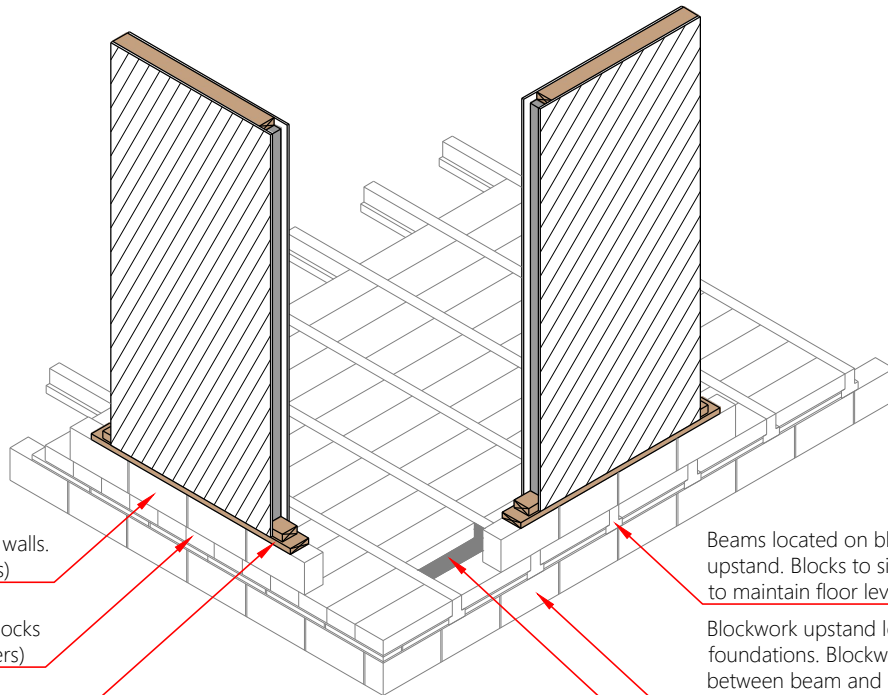
SIP soleplate fixed down to
blockwork upstand as specified
by Glosford engineer. SIPs
attached as detail GTS GL 05

Beams located on blockwork upstand.

Blockwork upstand located on concrete
foundations. Blockwork to create a void
between beam and block floor and
subsoils (depth of void to local authority
approval) for ventilation (by others)

Block left out for services (by others)

Profiled end block (by others)



Blockwork upstand below SIPs walls.
(Minimum 7N/mm² - by others)

Blockwork upstand located on
floor blocks spaced with slip blocks
to maintain floor level (by others)

SIP soleplate fixed down to
blockwork upstand as specified
by Glosford engineer. SIPs
attached as detail GTS GL 05

Beams located on blockwork
upstand. Blocks to sit on slip block
to maintain floor level (by others)

Blockwork upstand located on concrete
foundations. Blockwork to create a void
between beam and block floor and
subsoils (depth of void to local authority
approval) for ventilation (by others)

Block left out for services (by others)



SIPs to Beam and Block Floor Detail

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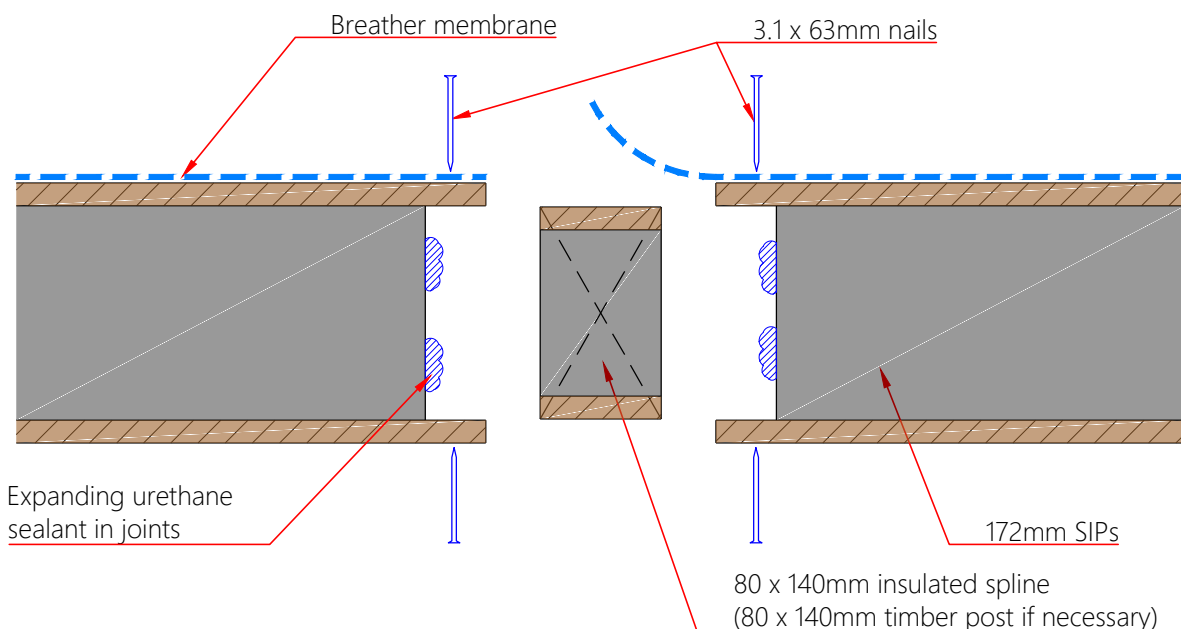
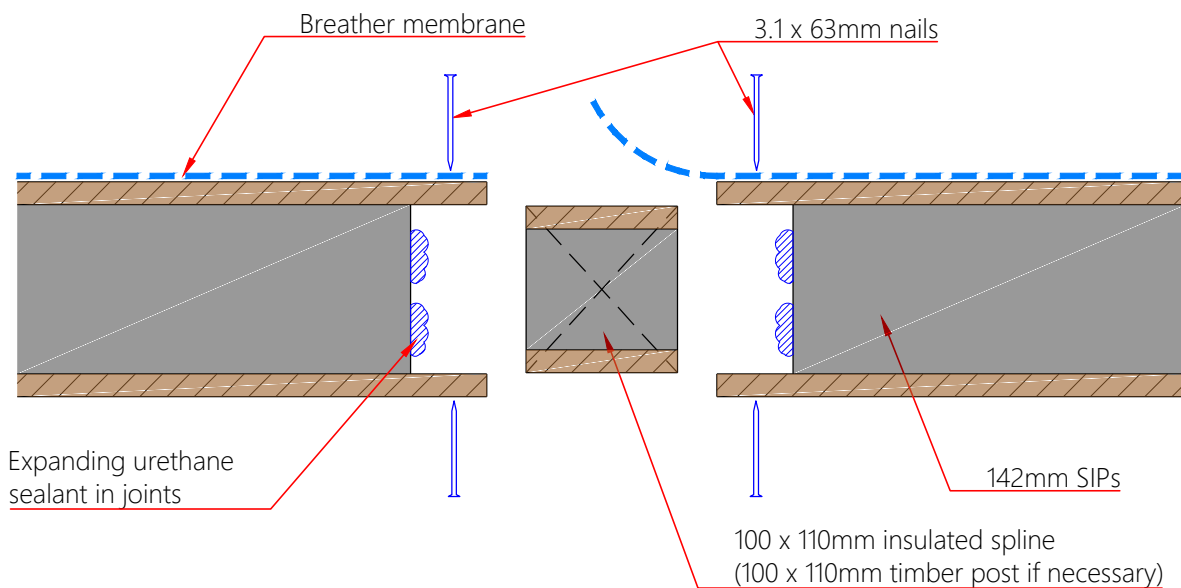
Scale:
N.T.S.

Date:
16/02/18


Drawn By:
M.B.

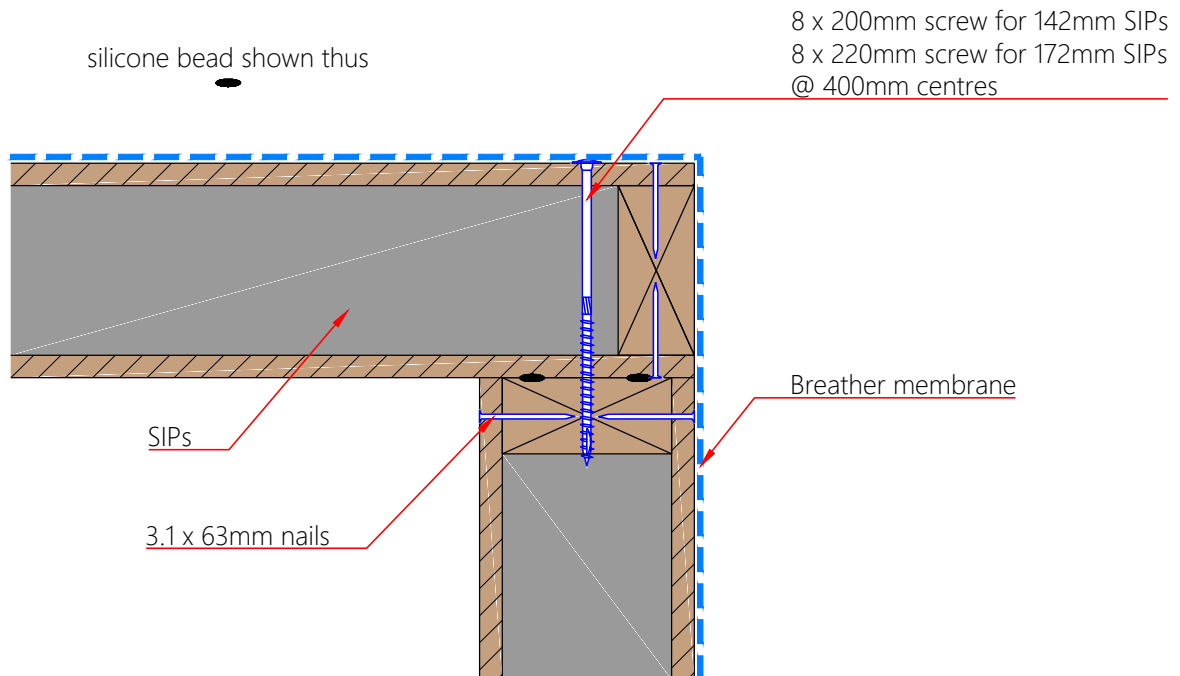
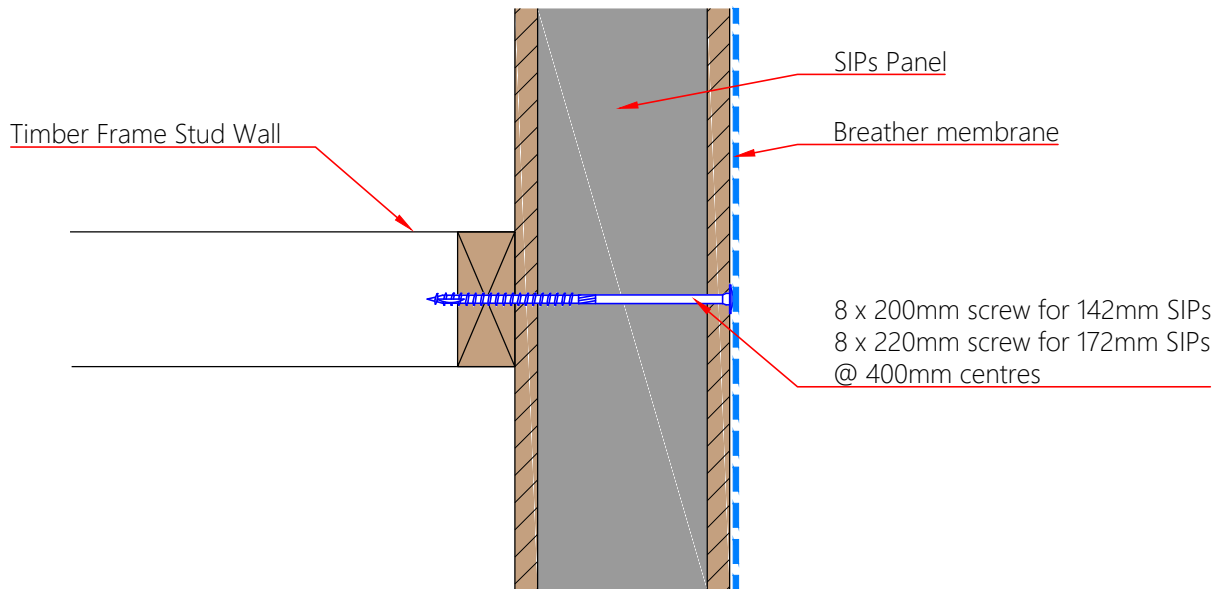
Drawing No:
GTS GL 07A

Rev:
A



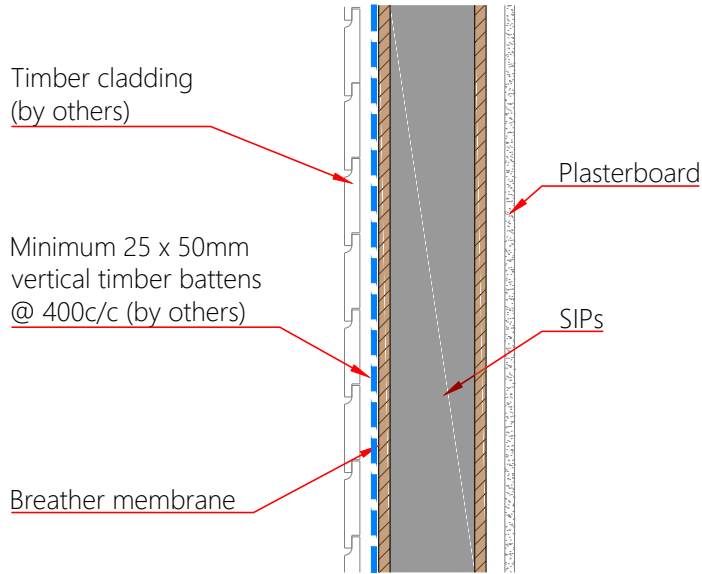
Application	Fastener Type	Spacing
Fixing insulated splines or timber posts between Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels

	<h1>SIP-to-SIP Connection Detail</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:5	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS WL 01

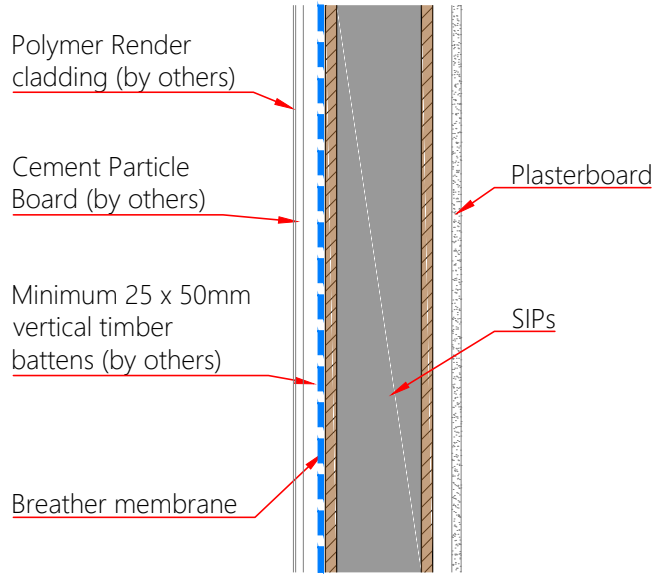


Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System wall panels at corner joints	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 400mm c/c, unless engineer specifies otherwise

	<h1>SIP Connection Details</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:5	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS WL 02

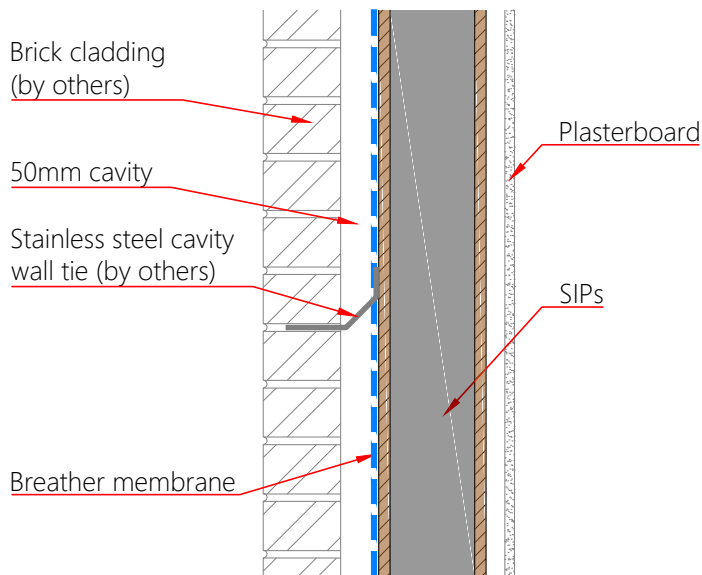


Timber (Horizontal)

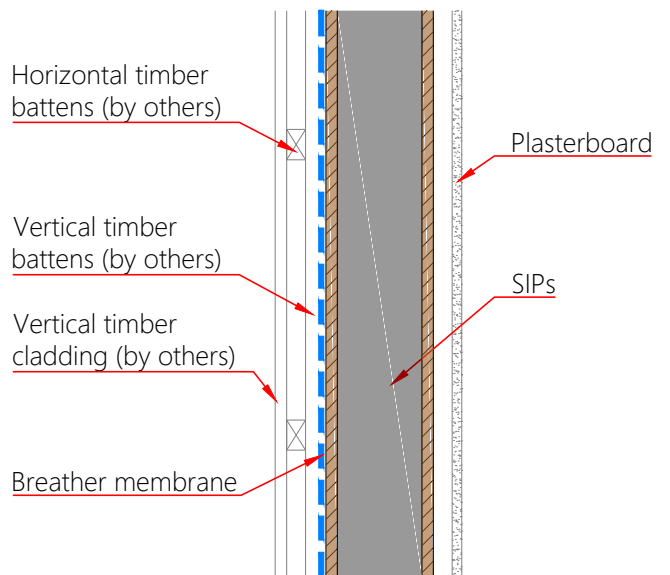


Render

All cavities to be vented and drained



Brick



Timber (Vertical)



External Wall Detail: Various Cladding

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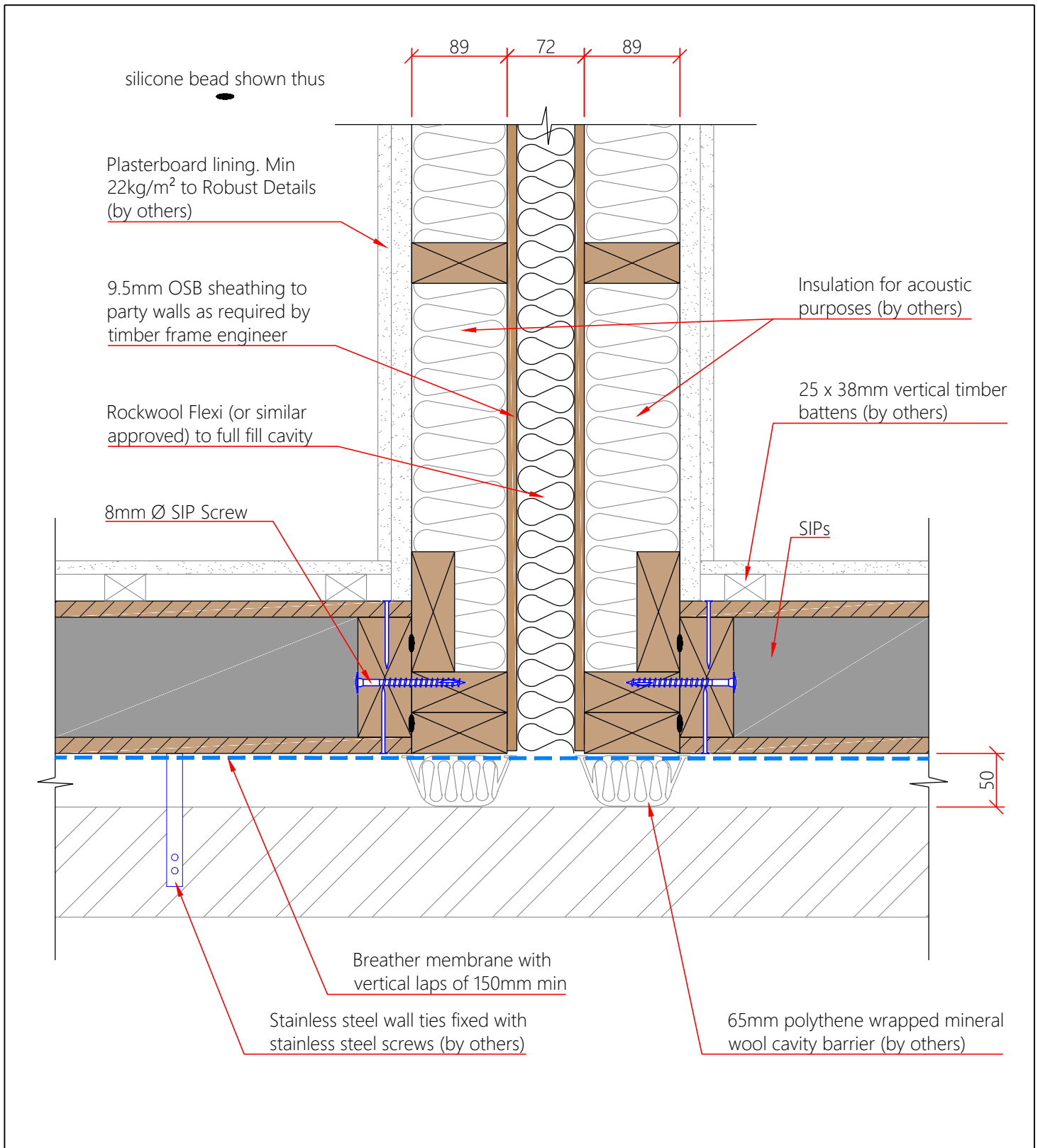
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Date:
04/12/2017


Drawn By:
M.B.

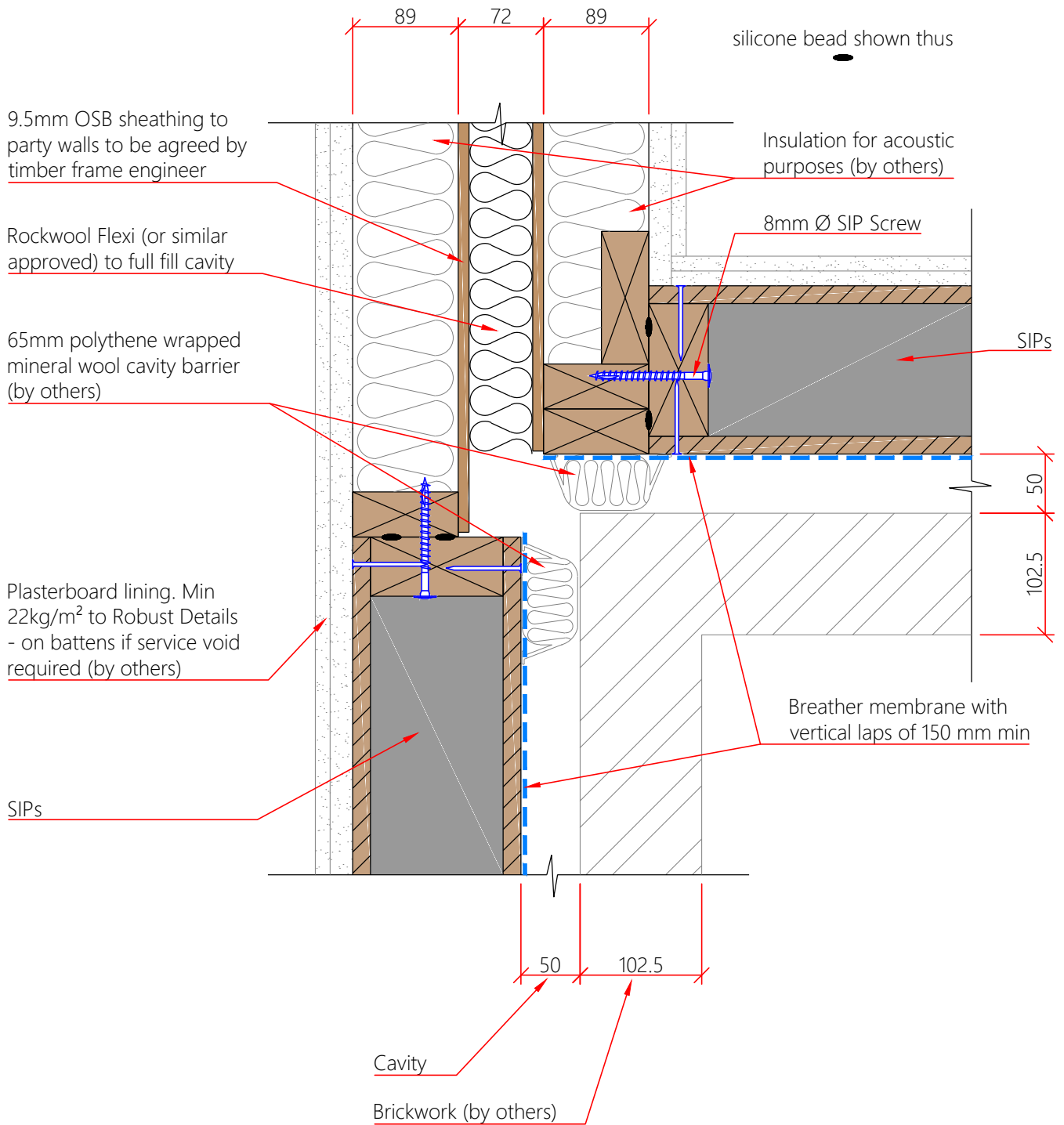
Drawing No:
GTS WL 03

Rev:
A




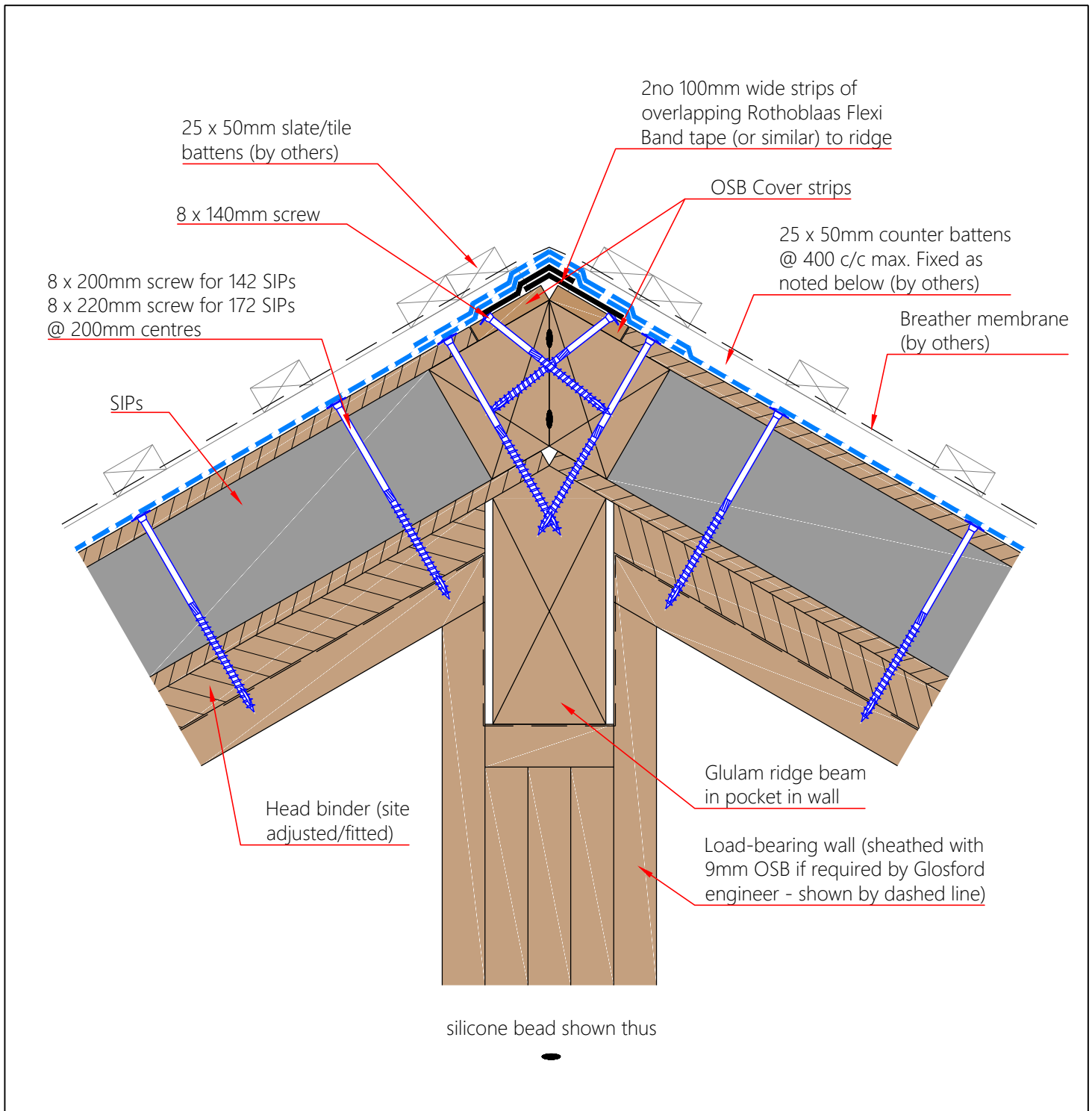
Application	Fastener Type	Spacing
Fixing Timber Frame Panels to SIPs	Rothoblaas TBS 8mm Ø SIP screws or similar	Typically at 400mm c/c, unless engineer specifies otherwise

	<h1>External Party Wall Plan Junction</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	



Application	Fastener Type	Spacing
Fixing Timber Frame Panels to SIPs	Rothoblaas TBS 8mm Ø SIP screws or similar	Typically at 400mm c/c, unless engineer specifies otherwise


	<h1>Plan Junction of Separating Wall Stagger</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	



silicone bead shown thus



Application	Fastener Type	Spacing
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise
Fixing treated timber counter battens to Kingspan TEK Building System wall/roof panels for ventilation	ABC Spax 5mm x 60mm or EJOT M5 70mm stainless steel screws or equivalent (to penetrate through 15mm OSB/3 face)	Typically 300mm centres. For further guidance follow project structural engineers' recommendations

	<h2>Load-Bearing Wall to SIP Roof Detail</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:5	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS WL 06

Joinery Head

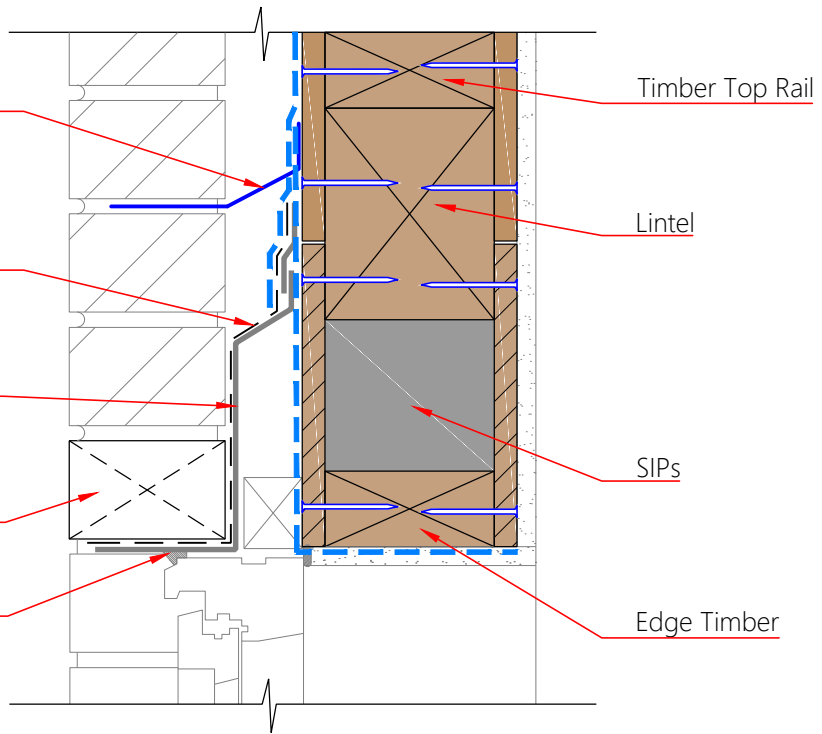
Stainless steel wall tie
(by others)

DPC dressed over lintel and
tucked under breather paper
(by others)

Brick support lintel
(by others)

Open Perpend to ventilate
and drain cavity (by others)

Sealant (by others)

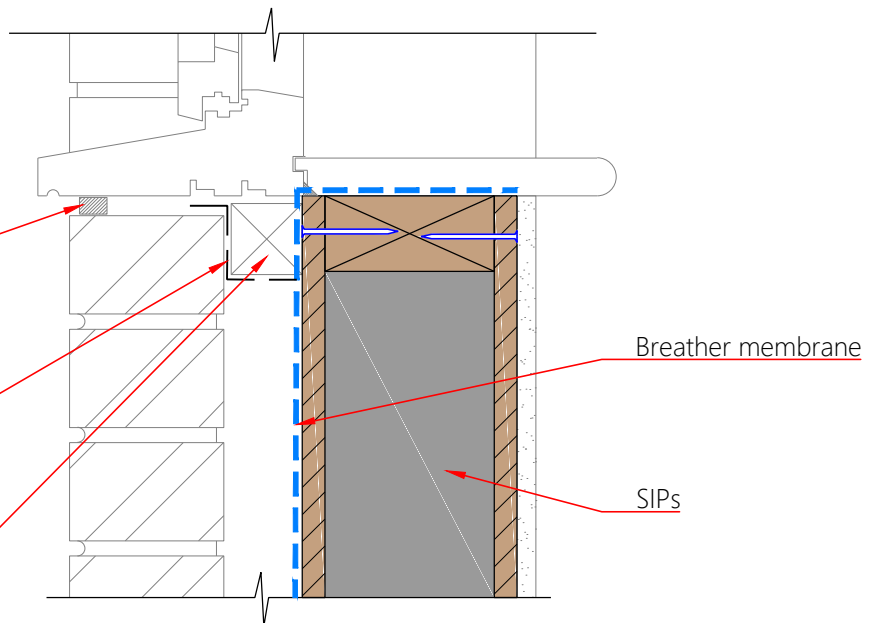


Joinery Cill

Compressible sealant

DPC dressed into groove
and staple fixed to pinch
batten (by others)

47 x 47 timber cavity fire
barrier or proprietary
cavity closer (by others)



Window Head & Cill Detail

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Scale:
1:5

Date:
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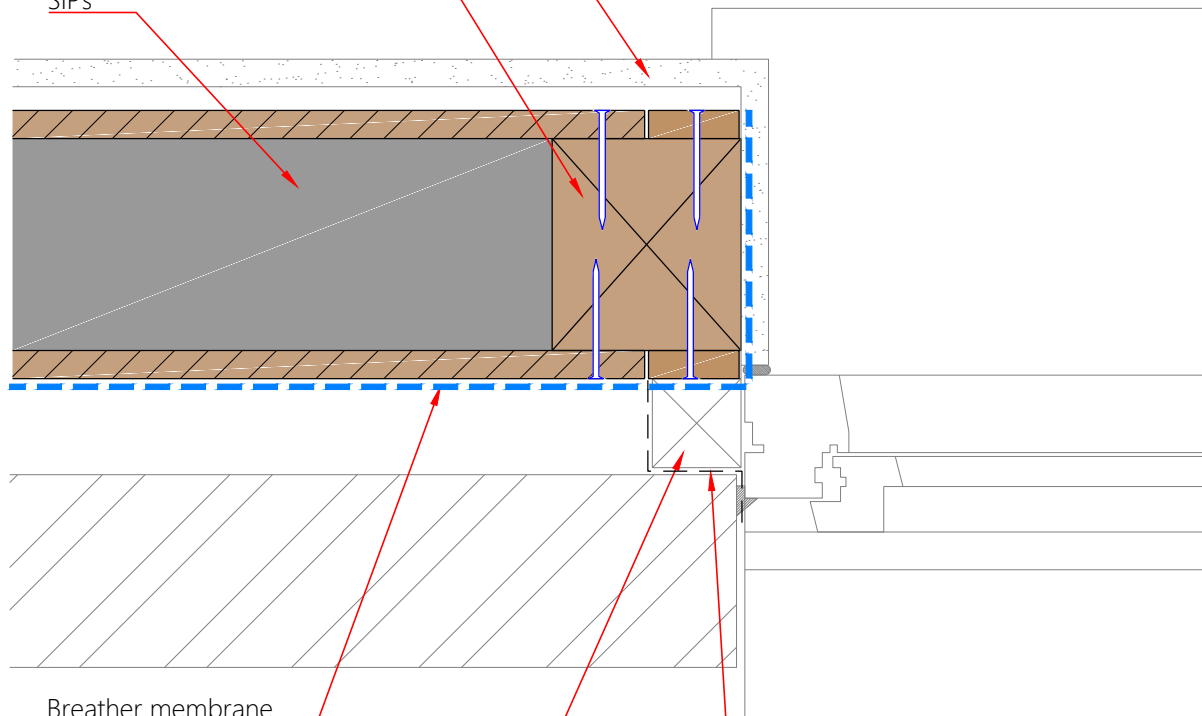
Drawing No:
GTS WL 07

Rev:
A

Plasterboard lining - on battens if service void required (by others)

Jamb post to be specified by Glosford engineer

SIPs



Breather membrane

47 x 47mm timber cavity fire barrier or proprietary cavity closer (by others)

DPC staple fixed to pinch batten and into window frame groove (by others)



Window Jamb Detail

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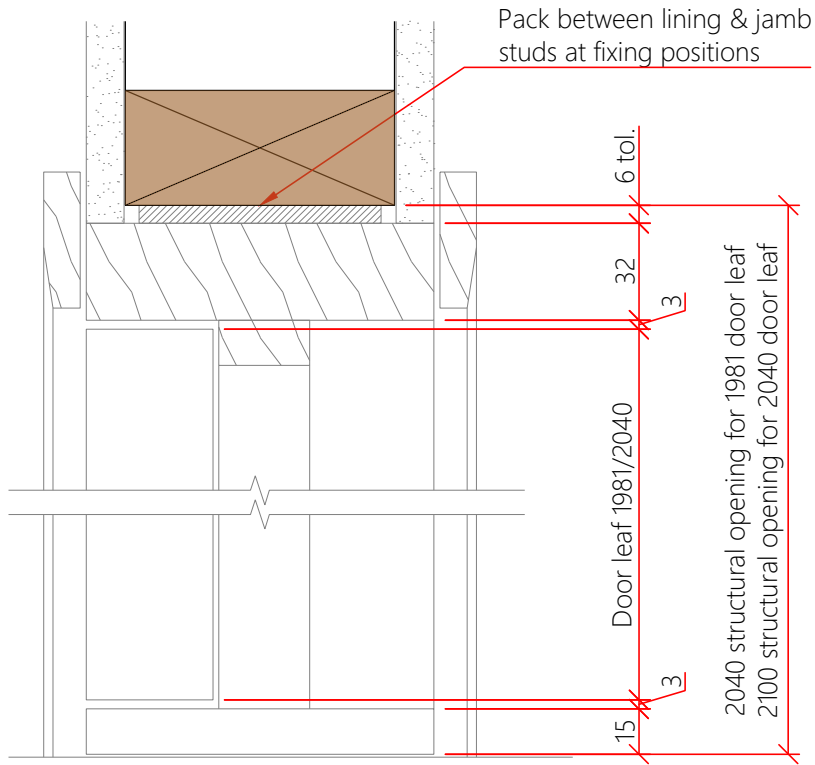
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS WL 08

Rev:
B



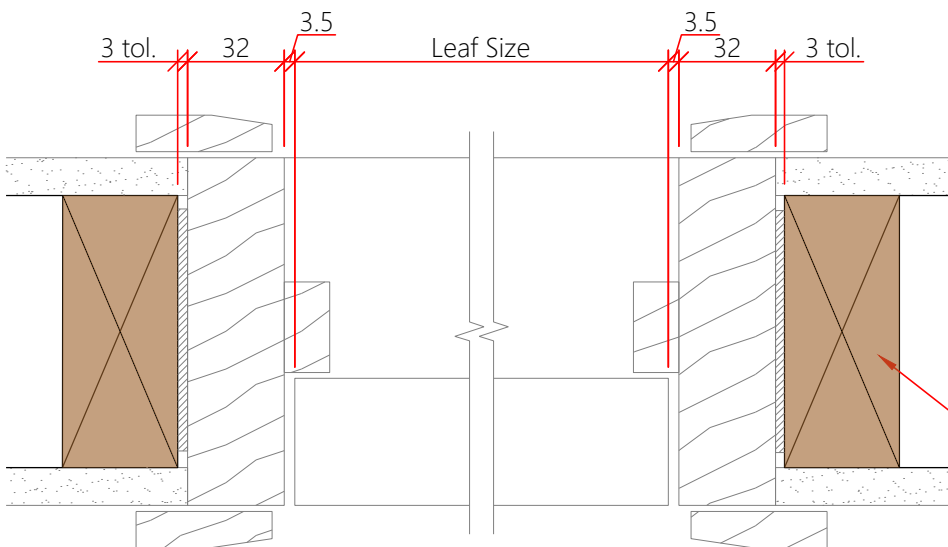
Threshold may be omitted

Glosford SIPs Standard Door Openings

Imperial doors (1981 high)	
Leaf	Structural opening
457	534x2040
533	610x2040
610	687x2040
686	763x2040
711	788x2040
762	839x2040
838	915x2040
864	941x2040
915	992x2040
Pair 457	994x2040
Pair 533	1146x2040
Pair 610	1300x2040
Pair 686	1452x2040
Pair 711	1502x2040
Pair 762	1604x2040
Pair 838	1756x2040
Pair 864	1808x2040

Metric Doors (2040 high)

Leaf	Structural opening
426	510x2100
526	610x2100
626	710x2100
726	810x2100
826	910x2100
926	1010x2100
Pair 426	940x2100
Pair 526	1140x2100
Pair 626	1340x2100
Pair 726	1540x2100



NOTE: Internal door sizes to be used by Glosford if no internal door schedule is supplied.



Internal Door Lining Detail

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Scale:
1:2.5

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS WL 09

Rev:
A

Wall Tie (by others)

Weephole over air brick
(by others)

Internal grille (by others)

25 min

External grille (by others)

25 min

Fully filled with mineral wool
(by others)

Cavity barrier (by others)

Breather membrane

SIPs



MVHR System

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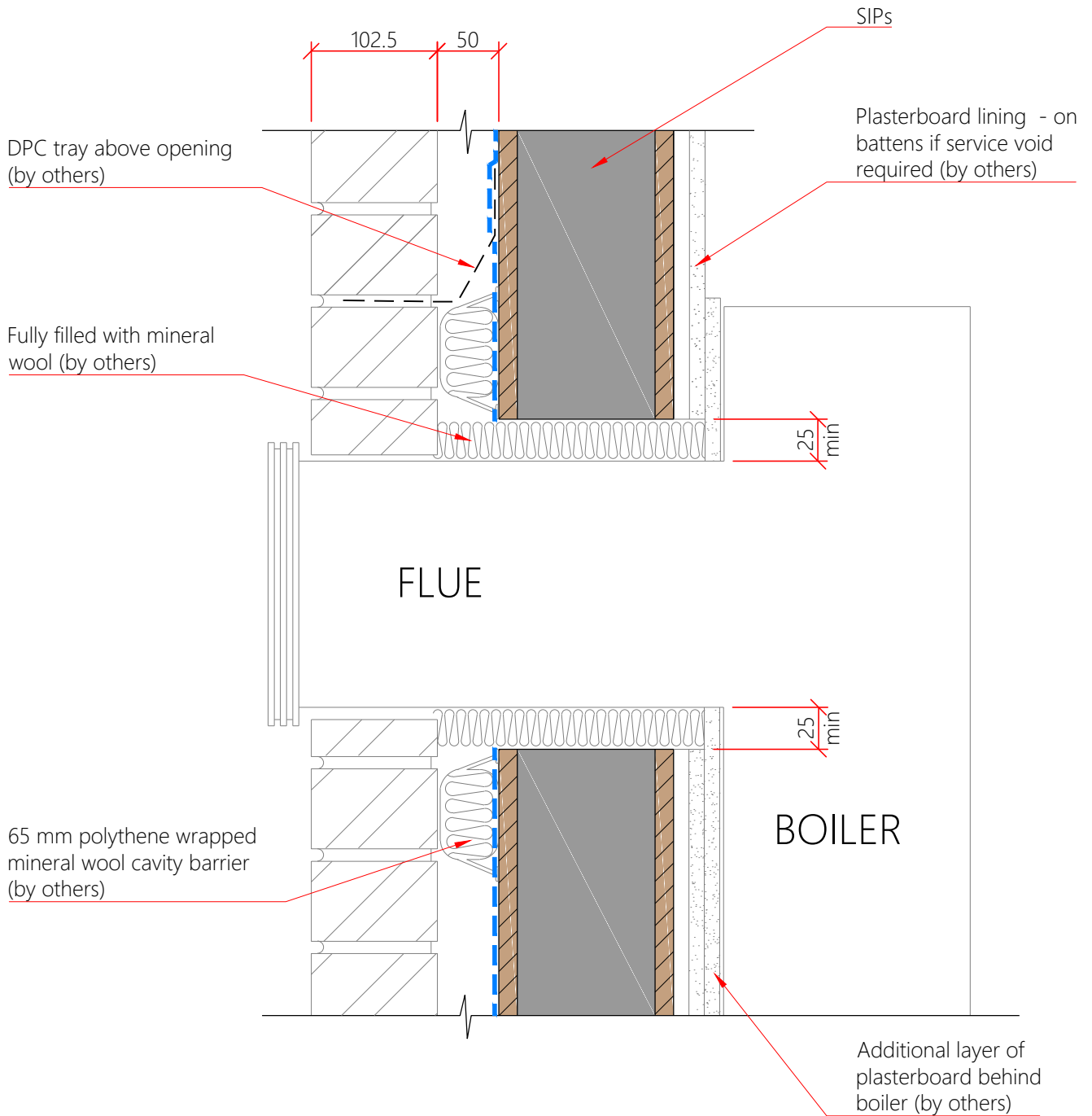
Scale:
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Drawn By:
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Drawing No:
GTS WL 10

Rev:
A



Openings for flues to be a minimum of 500mm from the top of the panel and 300mm from the side of the panel



Balanced Flue Boiler Installation

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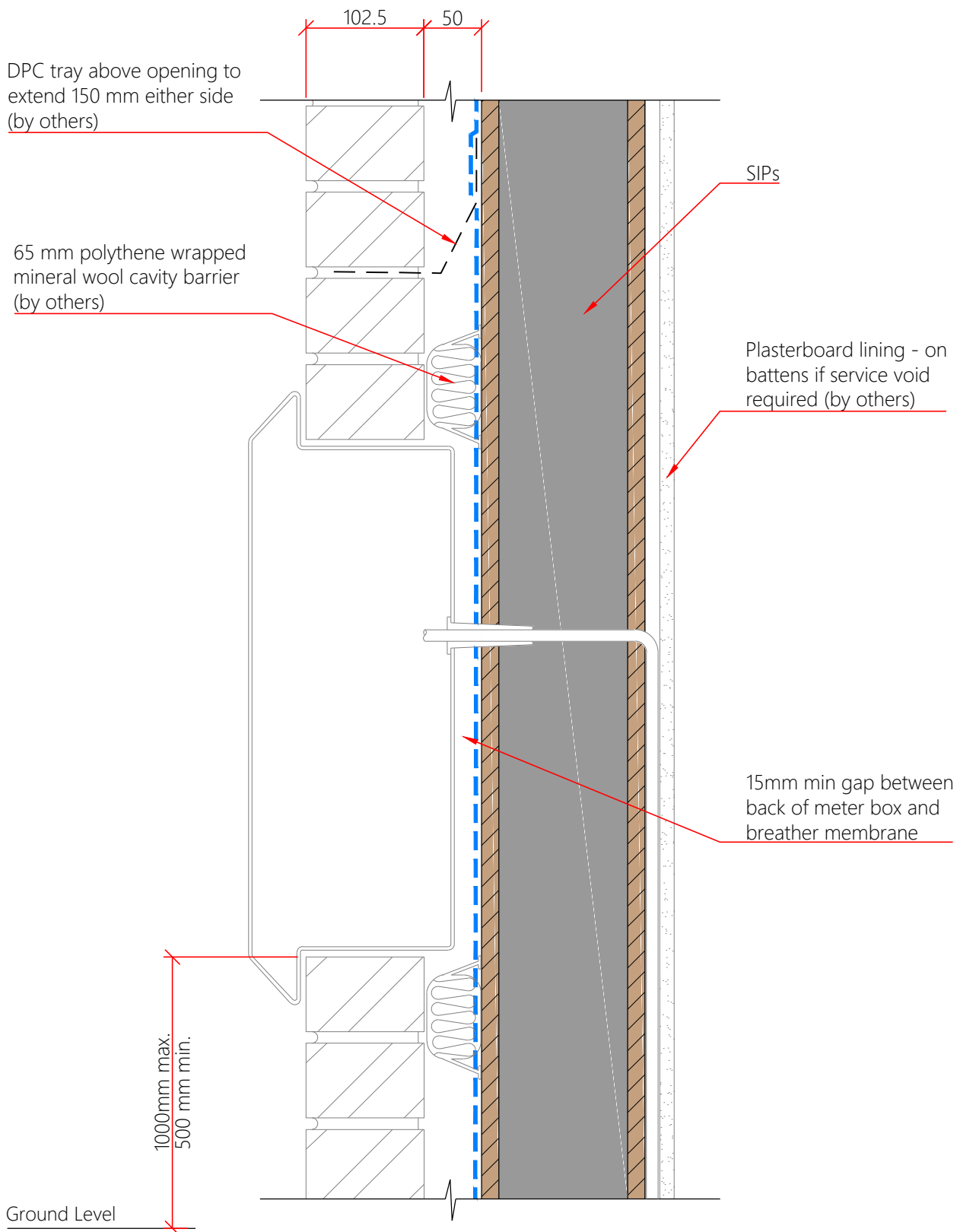
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04/12/2017

Drawn By:
M.B.

Drawing No:
GTS WL 11

Rev:
A



Meter Box Installation

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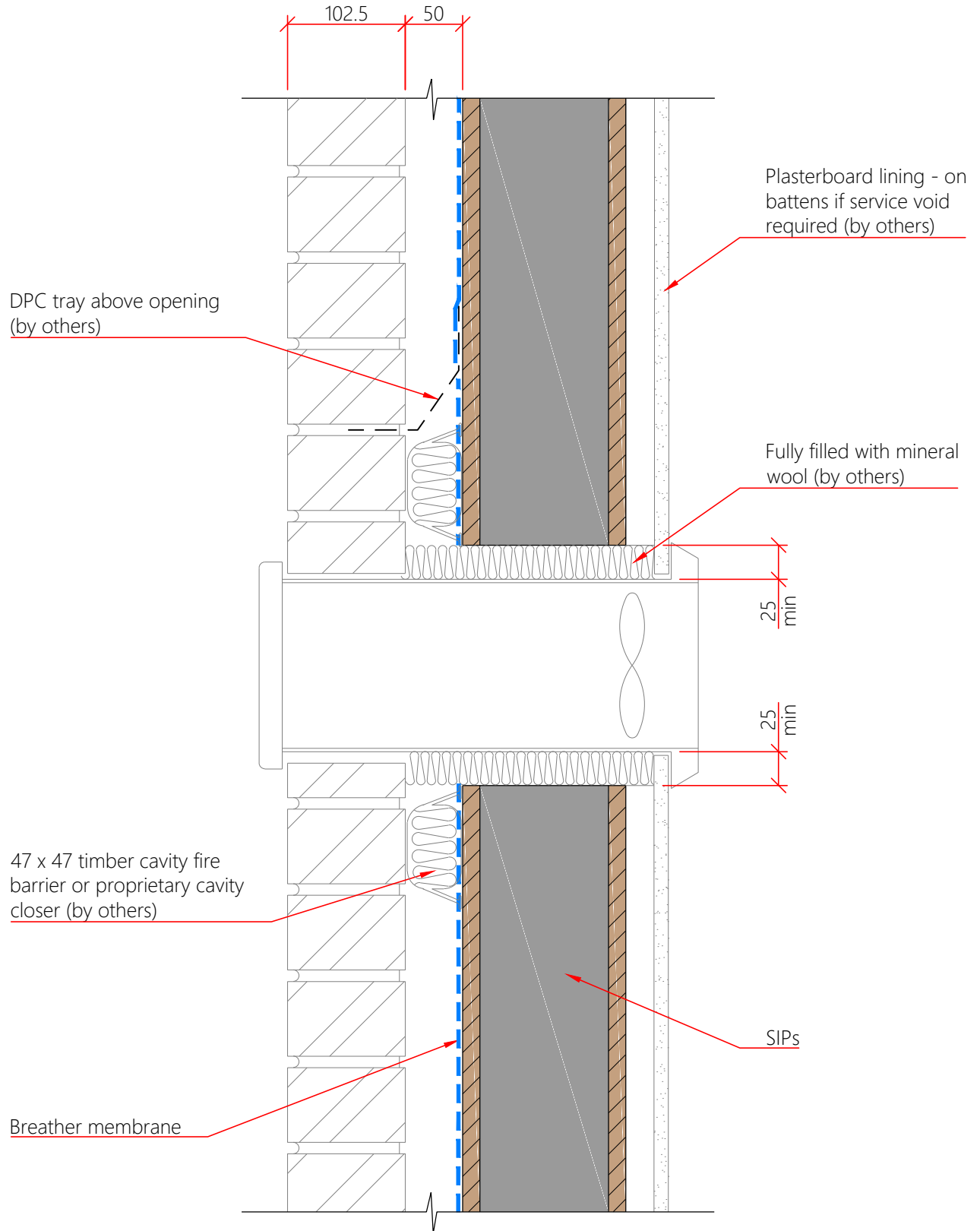
Scale:
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04/12/2017

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Drawing No:
GTS WL 12

Rev:
A



Extract Fan Installation

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Scale:
1:5

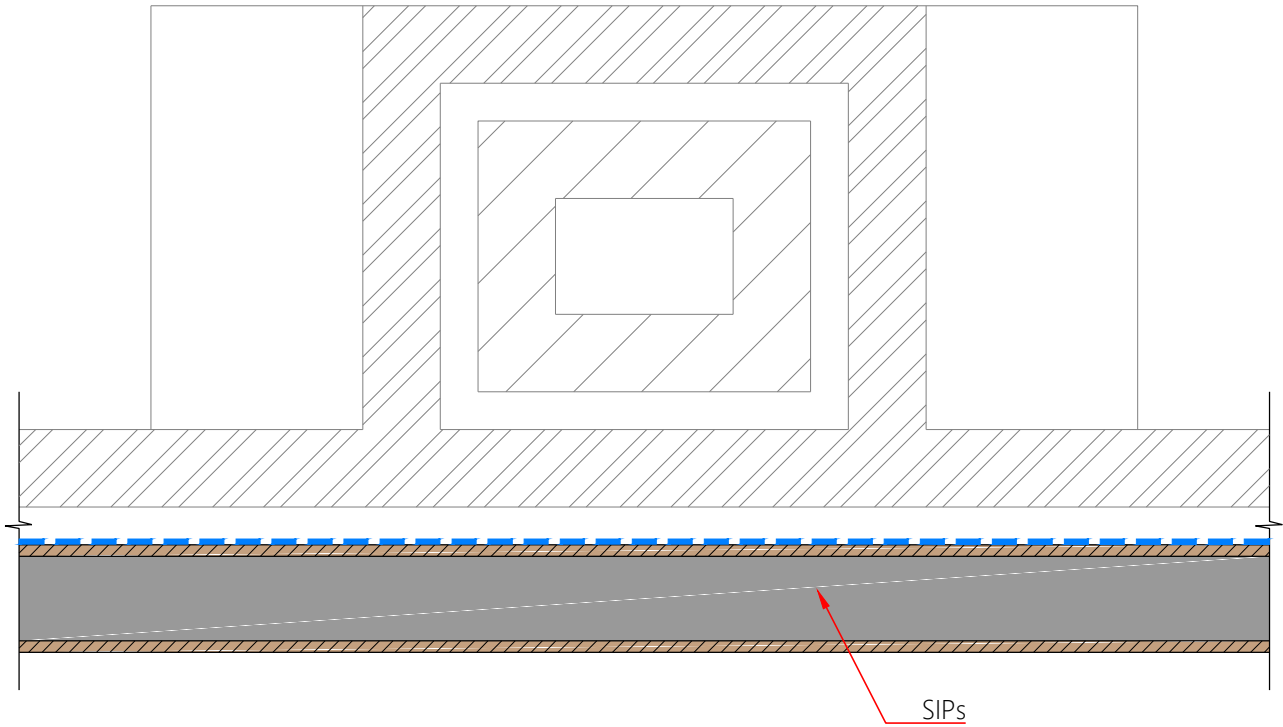
Date:
04/12/2017

Drawn By:
M.B.

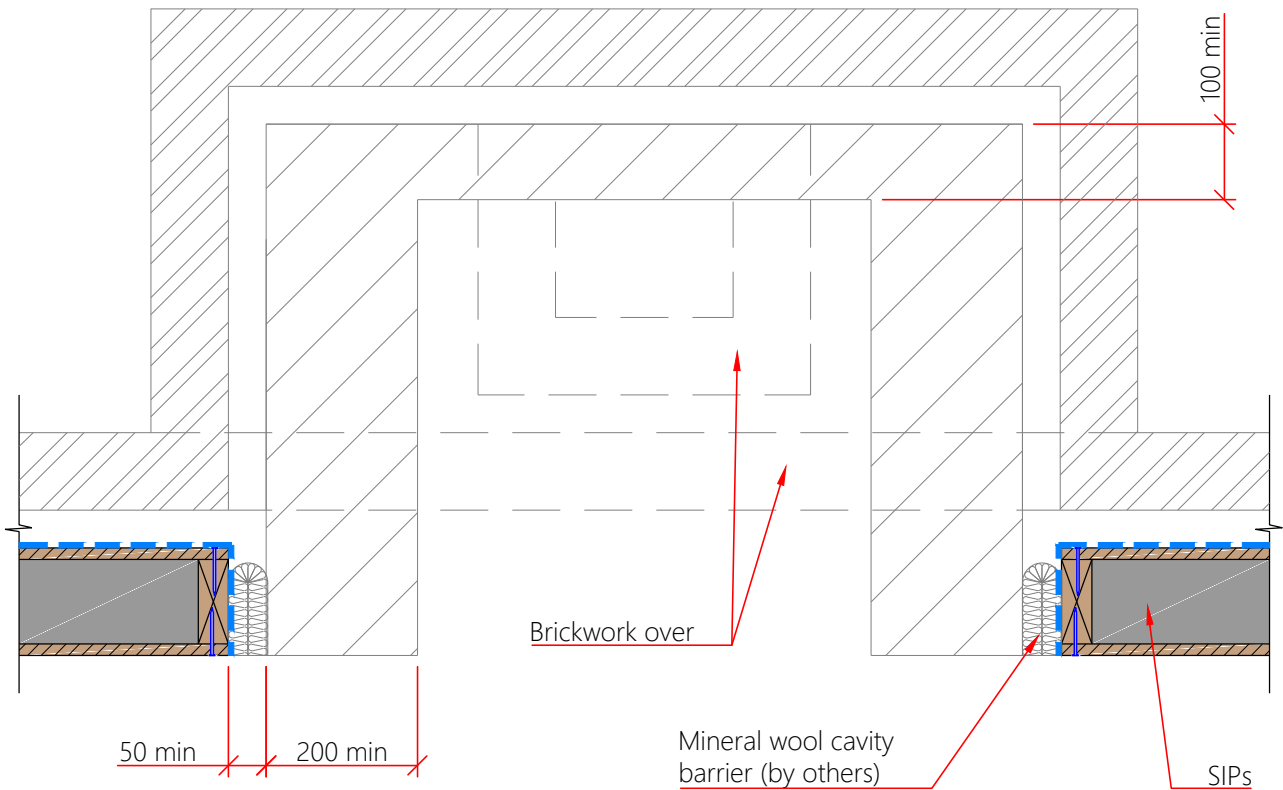
Drawing No:
GTS WL 13

Rev:
A

Chimney above Ground Floor



Chimney at Ground Floor



External Chimney Detail

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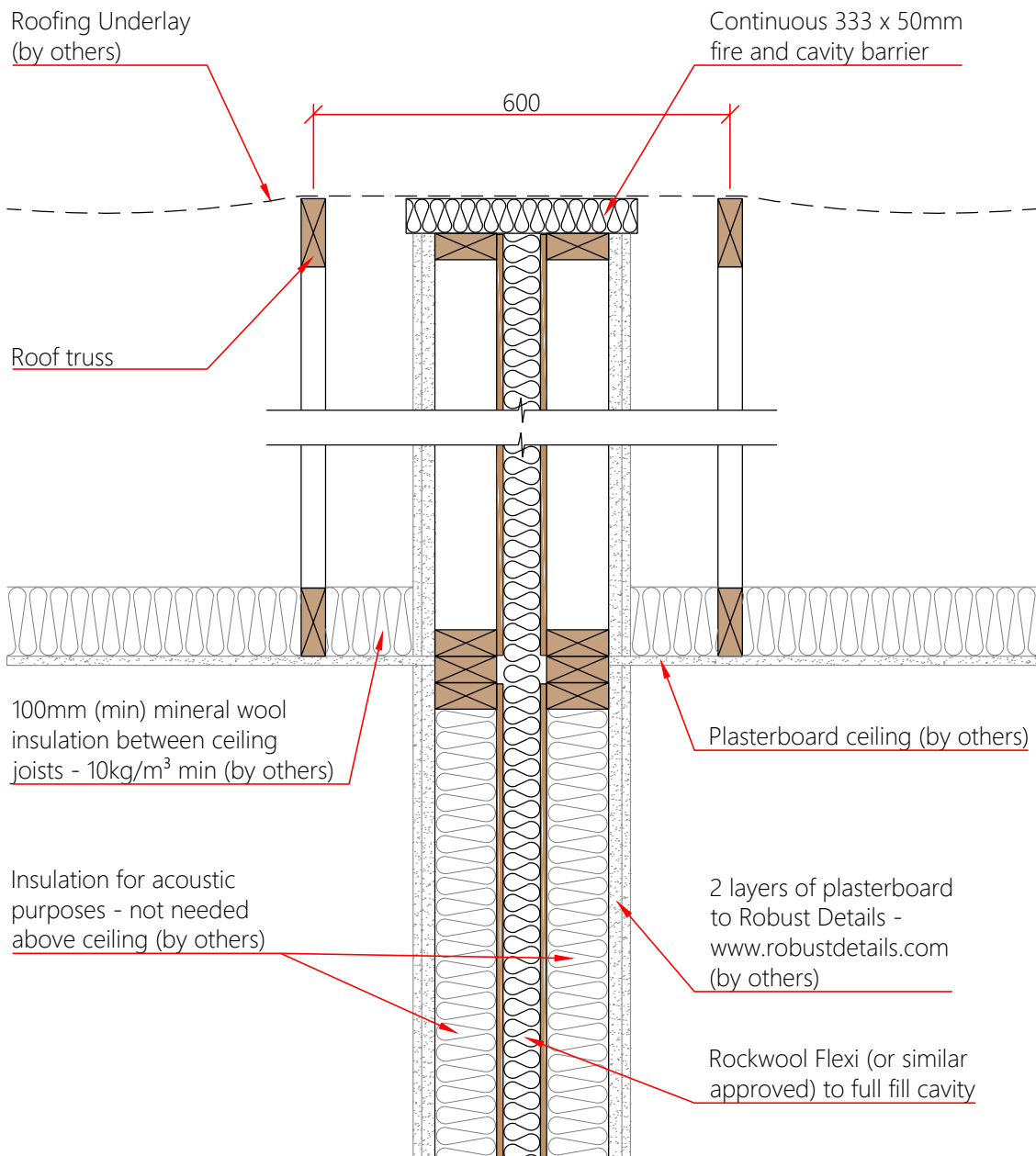
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS WL 14

Rev:
A



Party Wall to Roof Truss Detail

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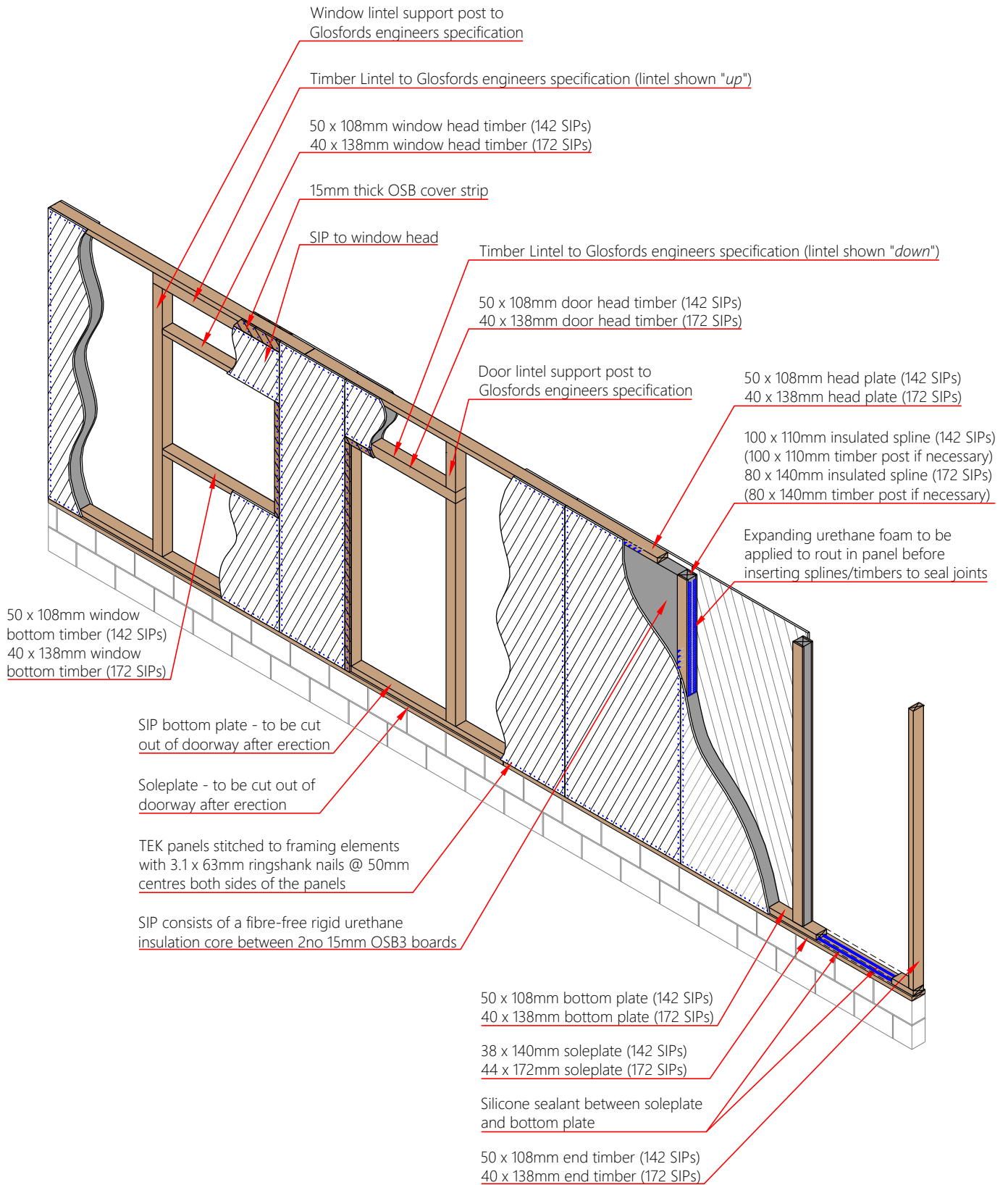
Scale:
1:10

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS WL 15

Rev:
B



Isometric View of Typical Wall Construction

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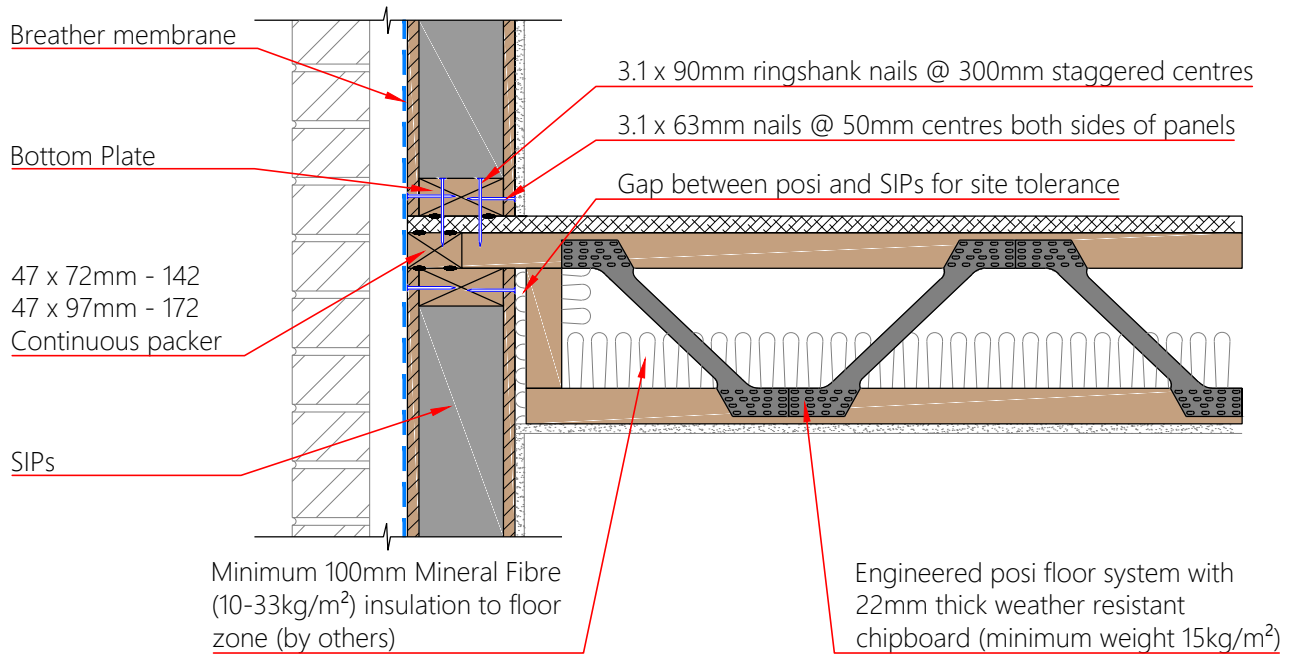
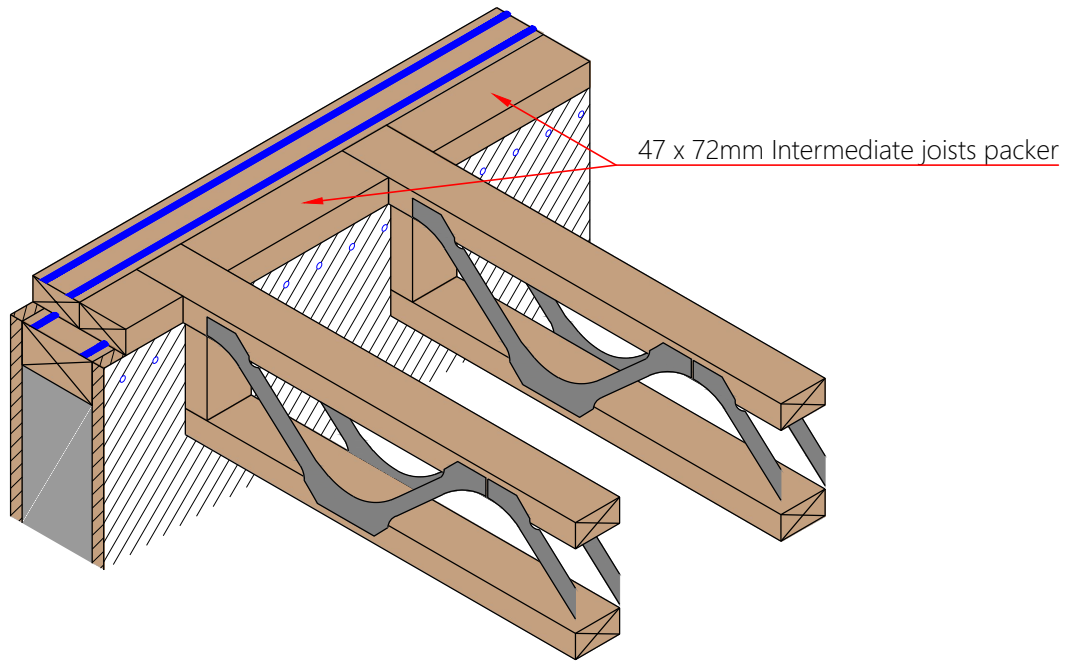
Scale:
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS WL 16

Rev:
B



Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing joist hangers to headplate or laminated beams	Typically Ø3.3 x 40mm nails (fixings may vary depending on specification of joist hanger - please refer to manufacturers' instructions floor systems)	Into side and top of headplate locations marked out



Posi Joist Detail for Houses

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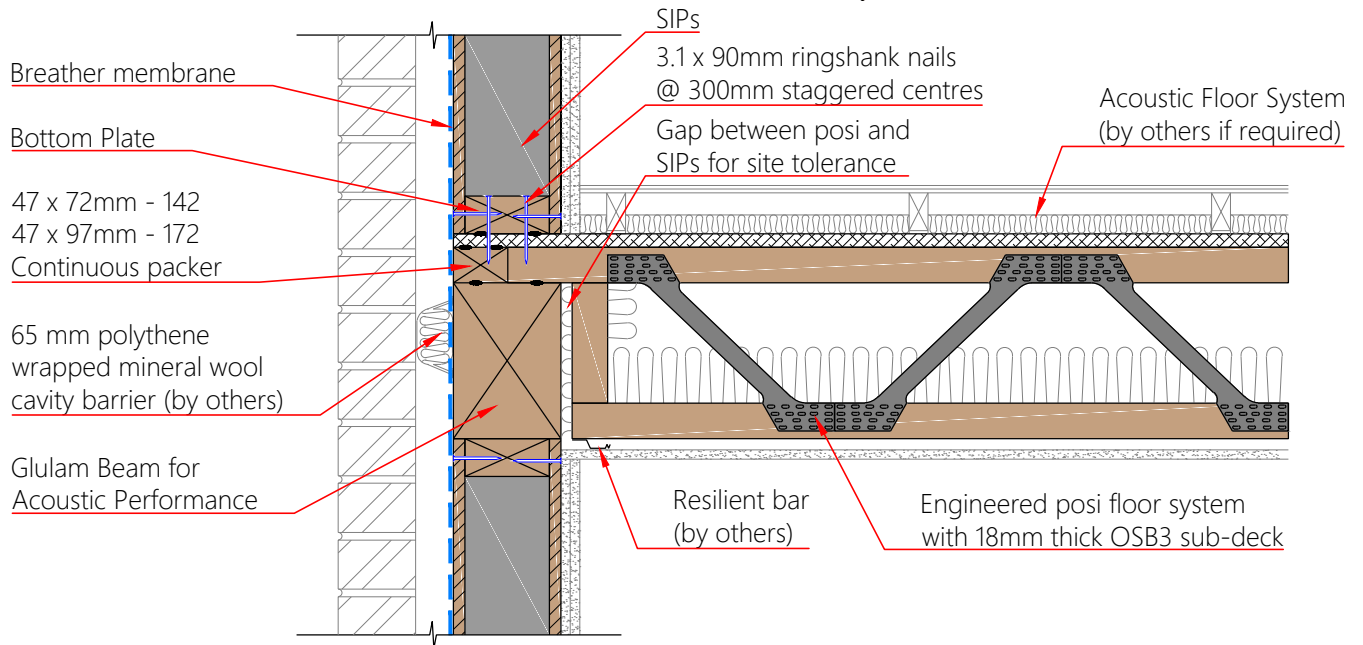
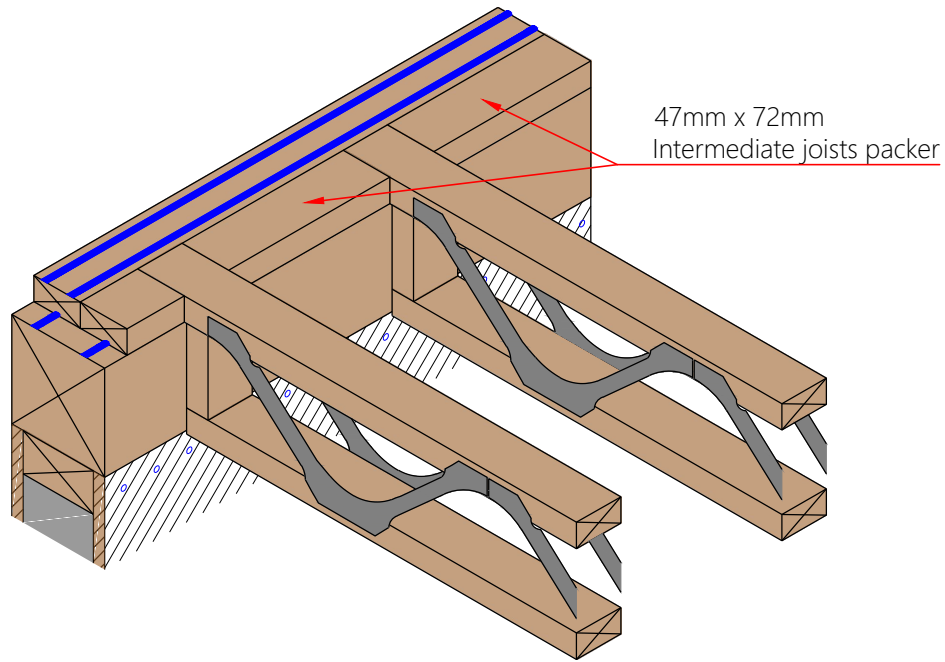
Scale:
1:10

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS FL 01

Rev:
A



Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing joist hangers to headplate or laminated beams	Typically Ø3.3 x 40mm nails (fixings may vary depending on specification of joist hanger - please refer to manufacturers' instructions floor systems)	Into side and top of headplate locations marked out



Posi Joist Detail for Flats

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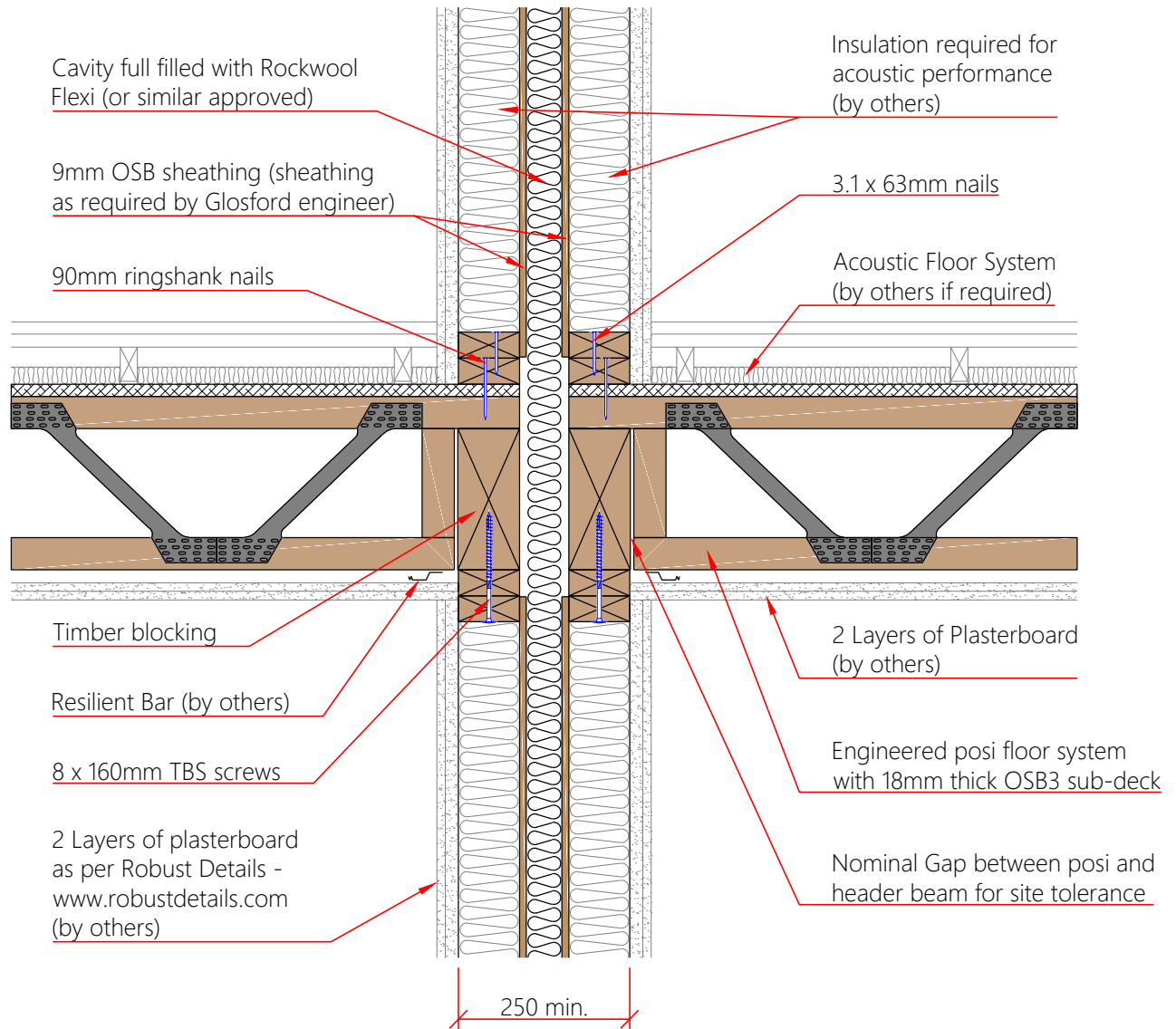
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS FL 02

Rev:
A

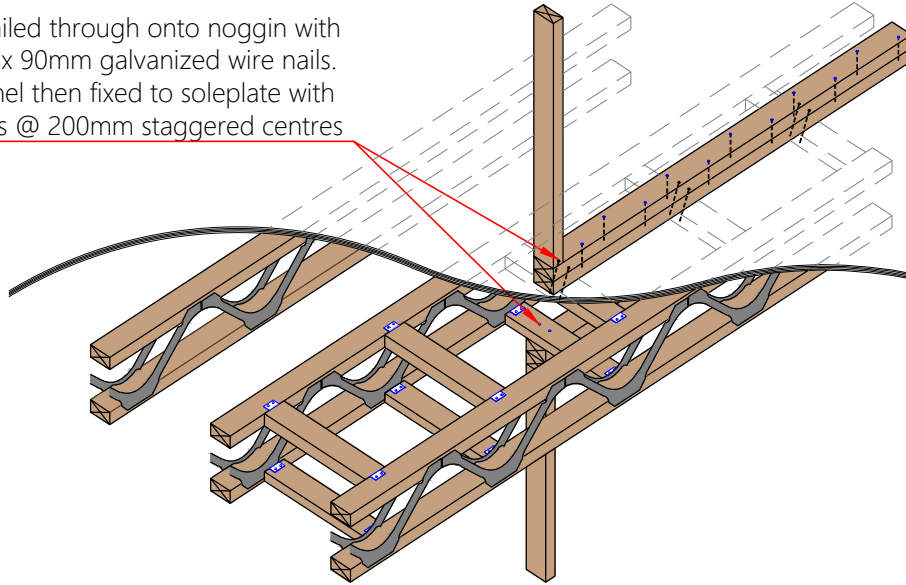


Typical party floor / party wall posi joist detail.
 Alternative acoustic floor systems available.
 Acoustic floor build up and resilient bar by other.

Application	Fastener Type	Spacing
Fixing Timber Frame to Soleplate	3.1mm x 63mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing bottomplates to soleplates (GF) and through decking (FF and above)	3.1mm x 90 mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing joist hangers to headplate or laminated beams	Typically Ø3.3 x 40mm nails (fixings may vary depending on specification of joist hanger - please refer to manufacturers' instructions floor systems)	Into side and top of headplate locations marked out

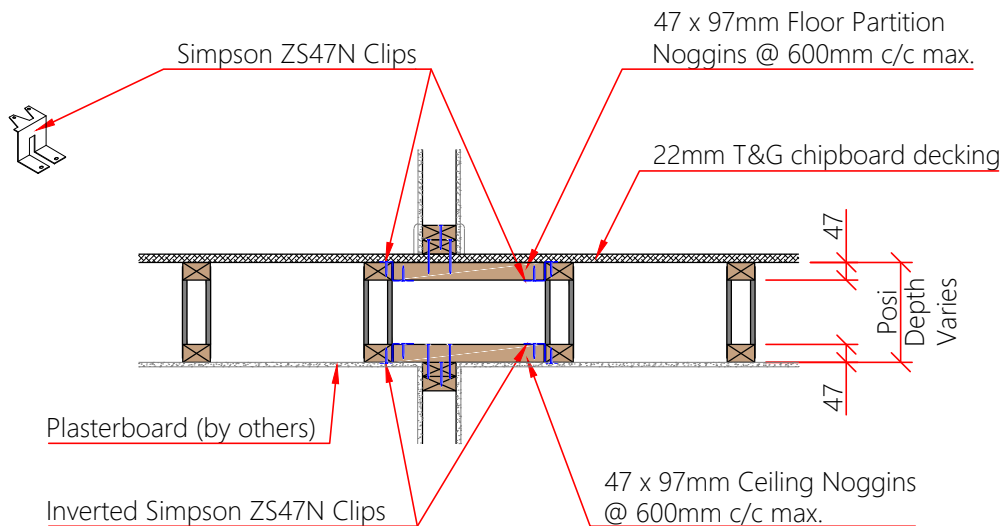
	<h2>Party Floor Posi Joist Detail</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:10	Date: 04/12/2017	Drawn By: M.B.	Drawing No: <h3>GTS FL 03</h3>

Soleplate skew nailed through onto noggin with min. of 2no. Ø3.1 x 90mm galvanized wire nails.
 Timber frame panel then fixed to soleplate with Ø3.1 x 63mm nails @ 200mm staggered centres



Key:

-  Floor Noggins @ 600mm Centres
-  Ceiling Noggins @ 600mm Centres
-  Both Floor & Ceiling Noggins



Application	Fastener Type	Spacing
Fixing Timber Frame to Soleplate	3.1mm x 63mm galvanized ring-shank nails	200mm centres in two staggered rows
Fixing Non-Load Bearing Timber Frame soleplates and head binders to joist noggins	3.1mm x 90 mm galvanized ring-shank nails	Skew fix 2no nails per noggin

	<h2>Posi Joist with Parallel Non-Load Bearing Walls</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:20	Date: 04/12/2017	Drawn By: M.B.	Drawing No: <h3>GTS FL 04</h3>

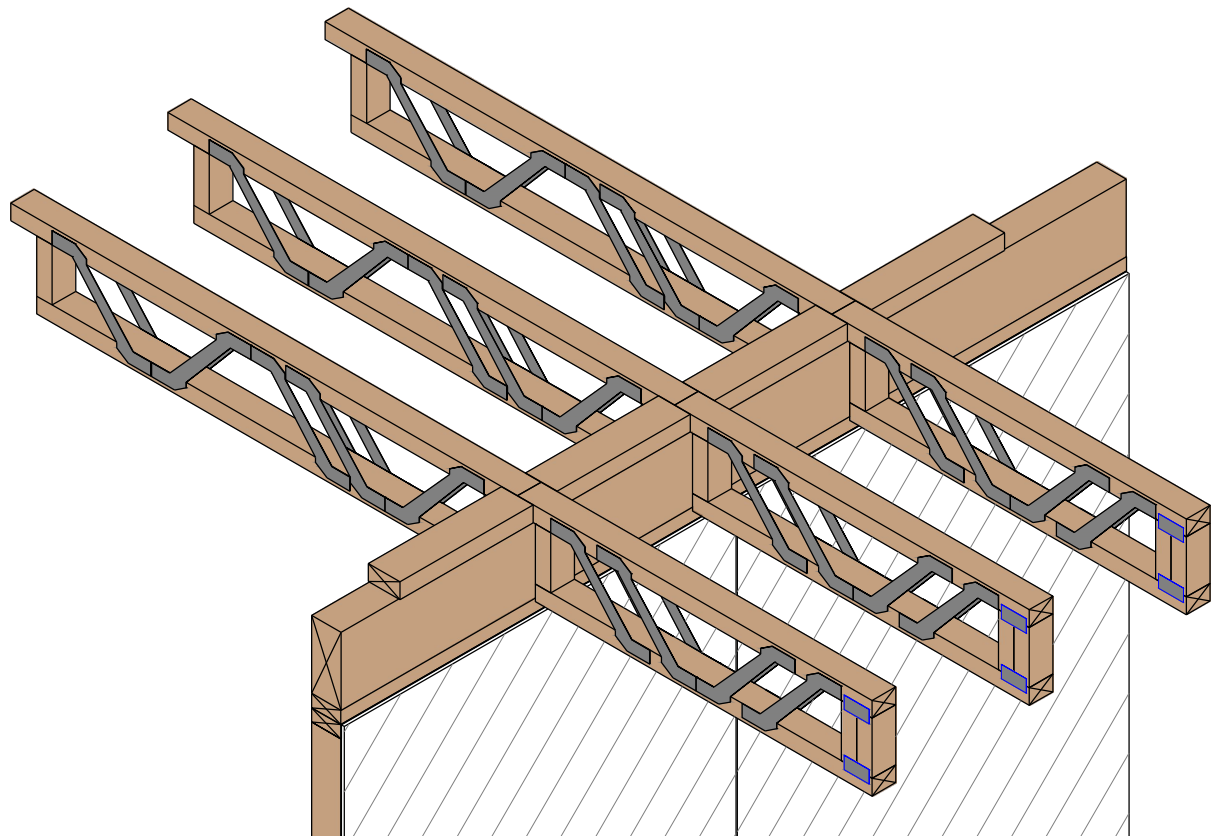
Typical 22mm T&G decking

Intermediate 47 x 97mm noggins (89mm) or 47 x 147mm noggins (140mm) between posi joists

Continuous header beam. Load bearing wall fixed to header beam with 8 x 160mm TBS screw @ 600mm max. centres (unless otherwise stated)

Engineered posi floor system with 22mm thick weather resistant chipboard (minimum weight 15kg/m²)

Timber frame load bearing wall with 9mm OSB sheathing to Glosfords engineers specification. Head binder to be site fitted



Application	Fastener Type	Spacing		
Fixing Timber Frame to Soleplate	3.1mm x 63mm galvanized ring-shank nails	200mm centres in two staggered rows		
	<h2 style="text-align: center;">Top Hung Posi Joist on Load Bearing Walls - 1 Noggin</h2>		<p style="text-align: center;">Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
				Scale: 1:20

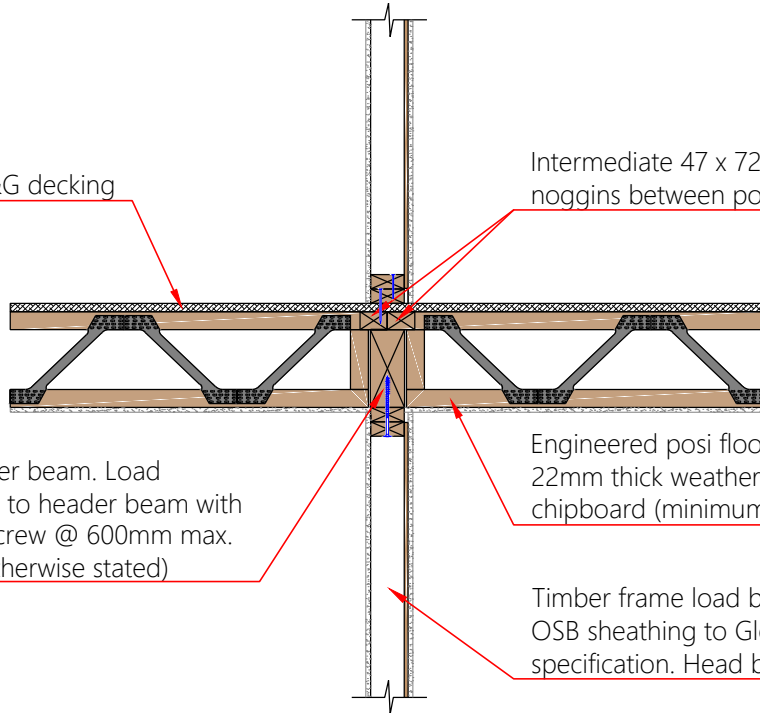
Typical 22mm T&G decking

Intermediate 47 x 72mm noggins between posi joists

Continuous header beam. Load bearing wall fixed to header beam with 8 x 160mm TBS screw @ 600mm max. centres (unless otherwise stated)

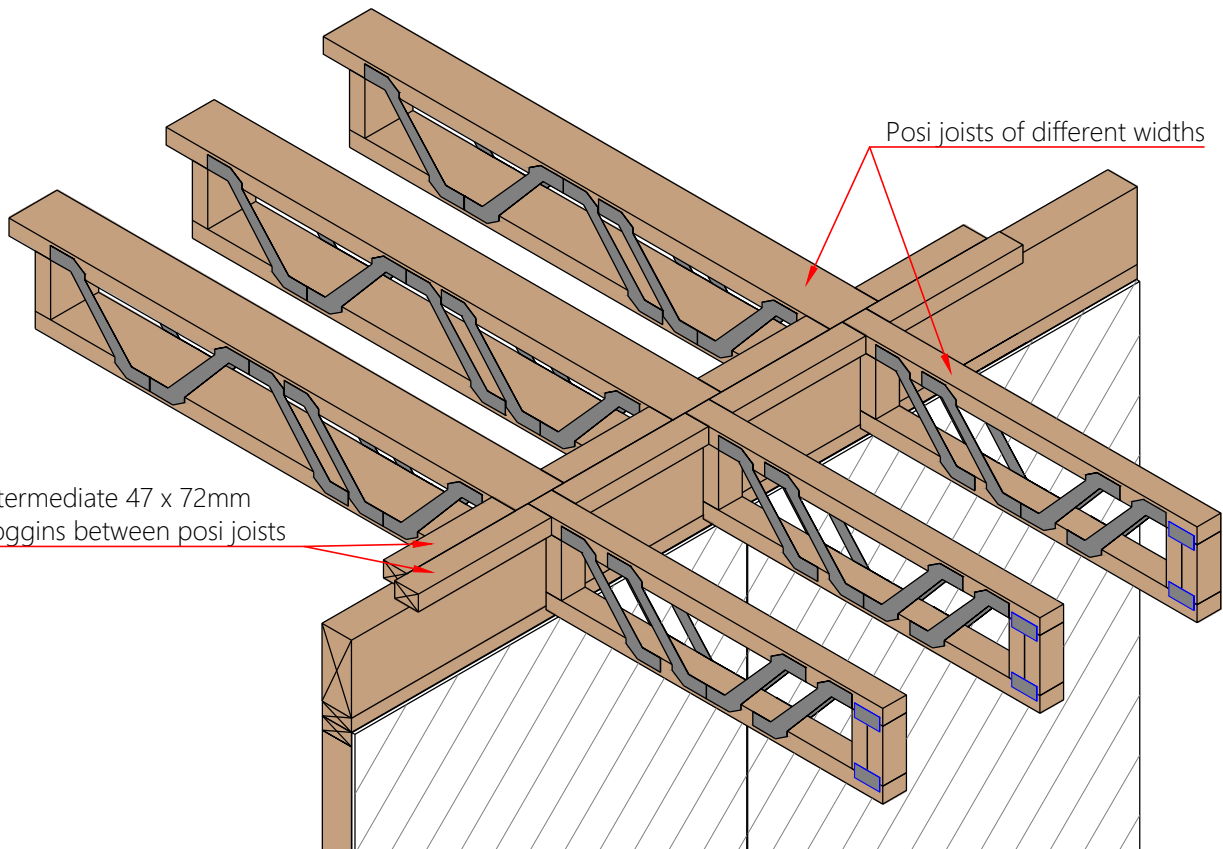
Engineered posi floor system with 22mm thick weather resistant chipboard (minimum weight 15kg/m²)

Timber frame load bearing wall with 9mm OSB sheathing to Glosfords engineers specification. Head binder to be site fitted




Posi joists of different widths

Intermediate 47 x 72mm noggins between posi joists

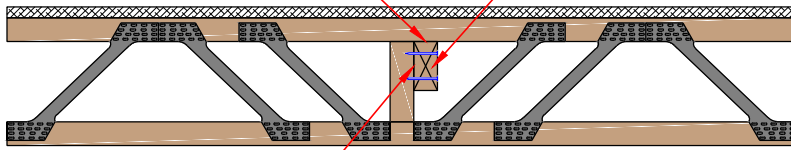


Application	Fastener Type	Spacing
Fixing Timber Frame to Soleplate	3.1mm x 63mm galvanized ring-shank nails	200mm centres in two staggered rows

	<h2>Top Hung Posi Joist on Load Bearing Walls - 2 Noggins</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	

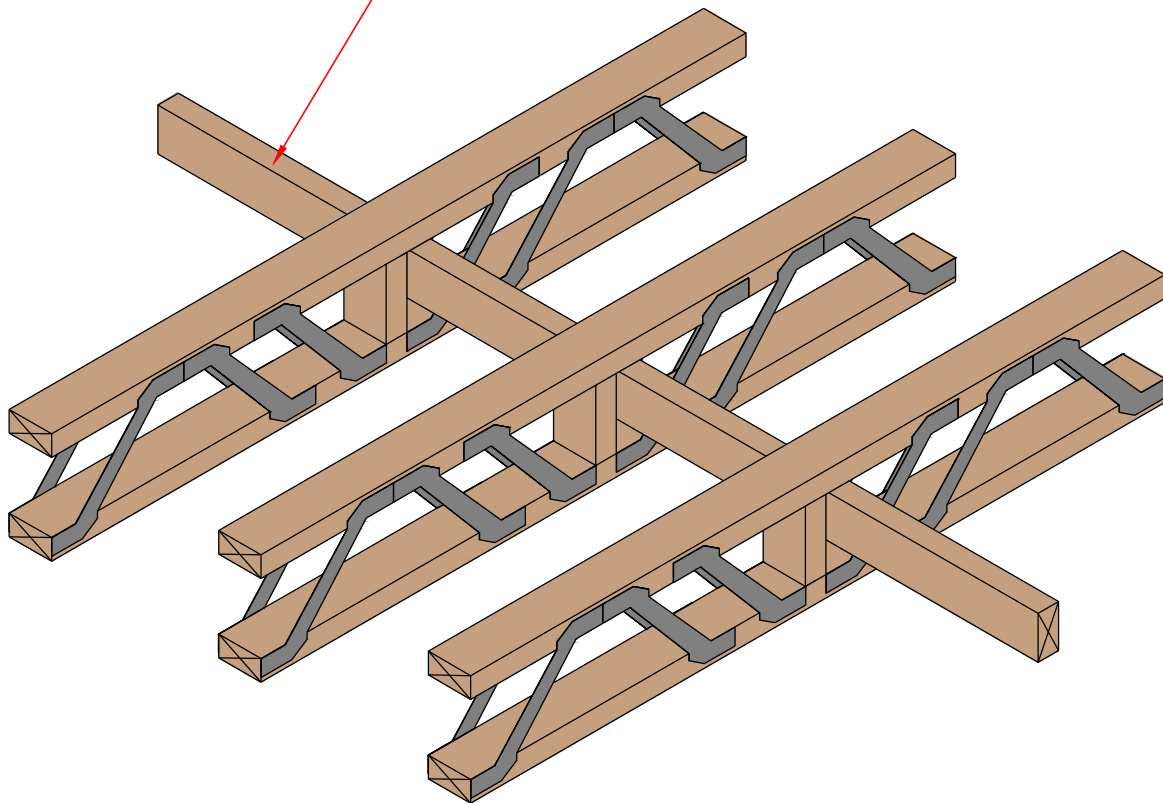
Strongback brace tight to underside of top chord (depth to suit - see below)

Strongback bracing required to clear spans over approx. 4000mm



Strongback twice nailed to vertical

Strongback Minimum Requirements Below:
47 x 97mm* TR26 timber for 225 & 253mm deep Joists
47 x 147mm* TR26 timber for 304 & 373mm deep Joists



Typical Strongback Detail

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Scale:
1:15

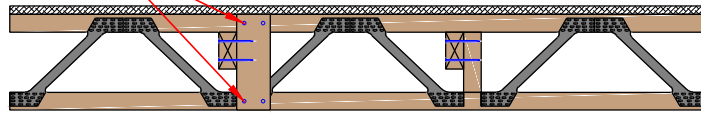
Date:
04/12/2017

Drawn By:
M.B.

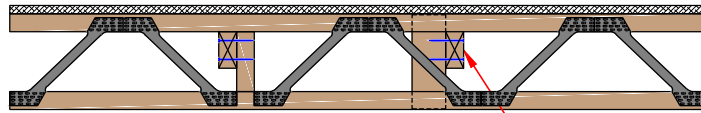
Drawing No:
GTS FL 07

Rev:
A

38 x 89mm Timber Blocks fixed using 2No. Ø3.1 x 90mm Nails to Top and Bottom Chords

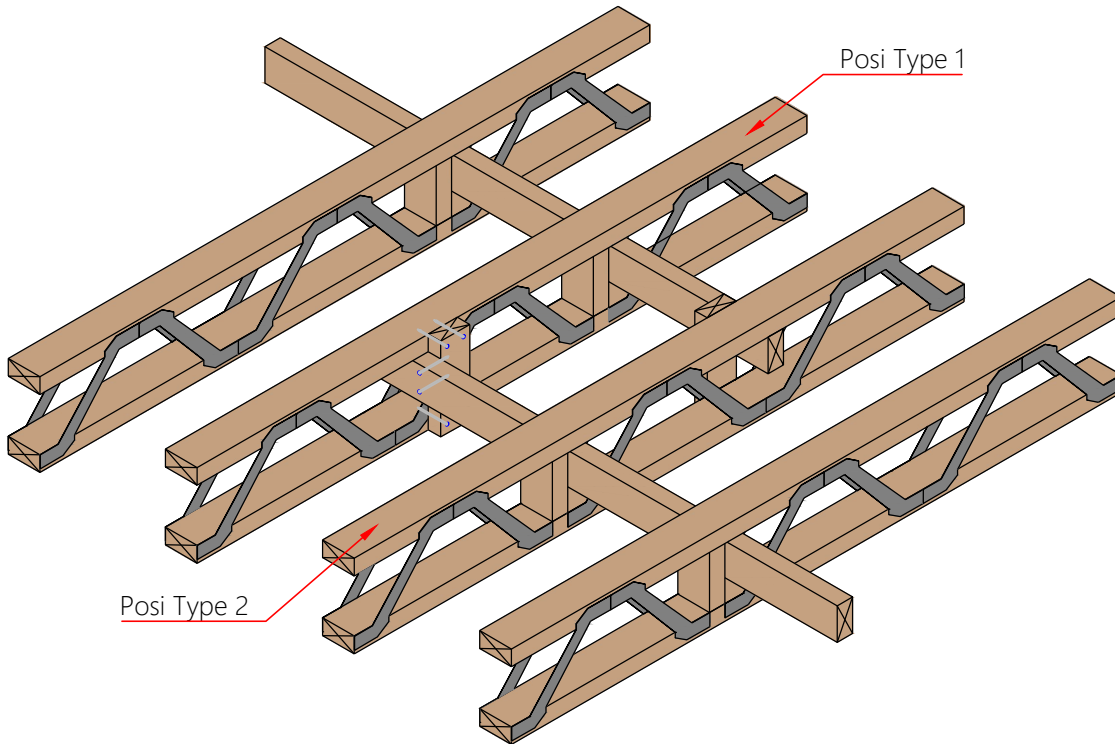


View on Posi Type 1



View on Posi Type 2

Strongback Nailed to Change of Span Noggin using 2No. Ø3.1 x 90mm Nails



Strongback Change of Span Detail

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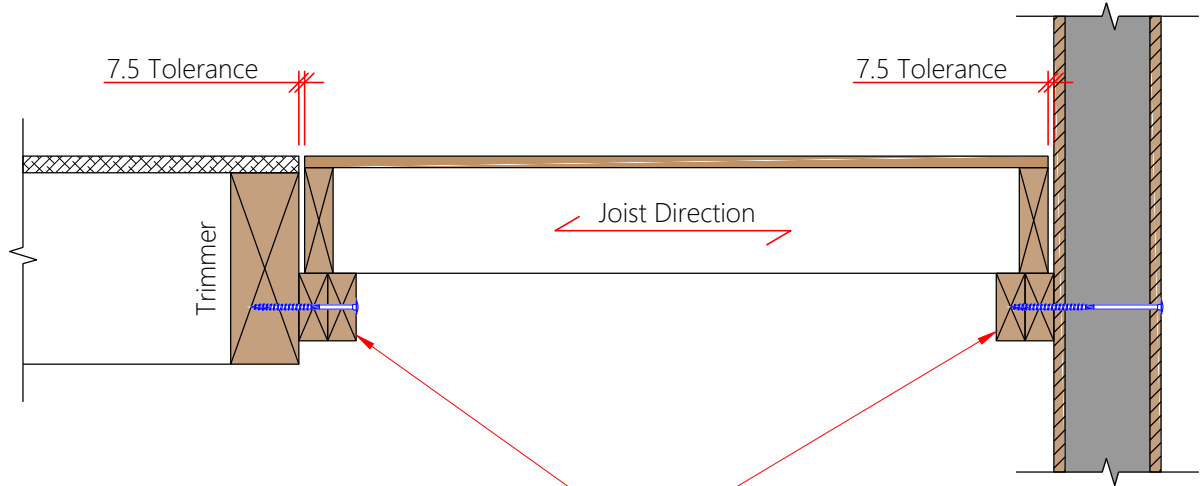
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Date:
04/12/2017

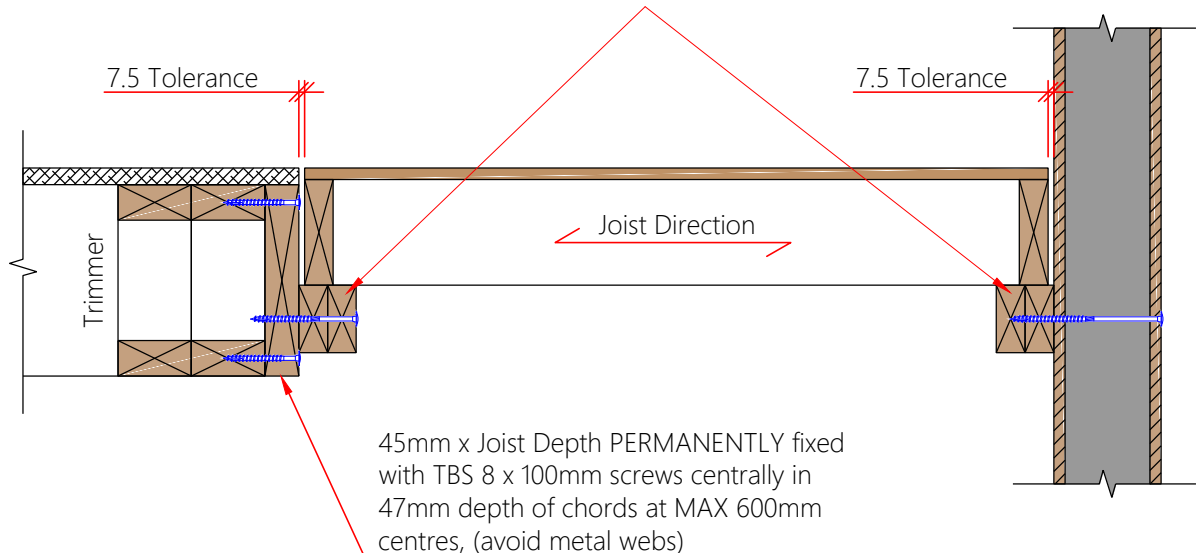
Drawn By:
M.B.

Drawing No:
GTS FL 08

Rev:
A



2No. 38 x 89 mm C16 Ledger Timbers fixed to Trimmer / External Wall Splines the full length of floor opening. Fix with TBS 8 x 140mm screws to trimmers and TBS 8 x 200/220mm to SIPs (from outside) at 400mm max. centres and at either end of ledger - minimum end distance for first TBS screw to be 100mm, maximum end distance for first TBS screw to be 150mm. TBS screws fixed centrally in depth of 89mm ledger



45mm x Joist Depth PERMANENTLY fixed with TBS 8 x 100mm screws centrally in 47mm depth of chords at MAX 600mm centres, (avoid metal webs)

Clear spans up to 3.6 m wide: Joists 38x140mm at 400mm centres



Stairway Opening Infill Panels

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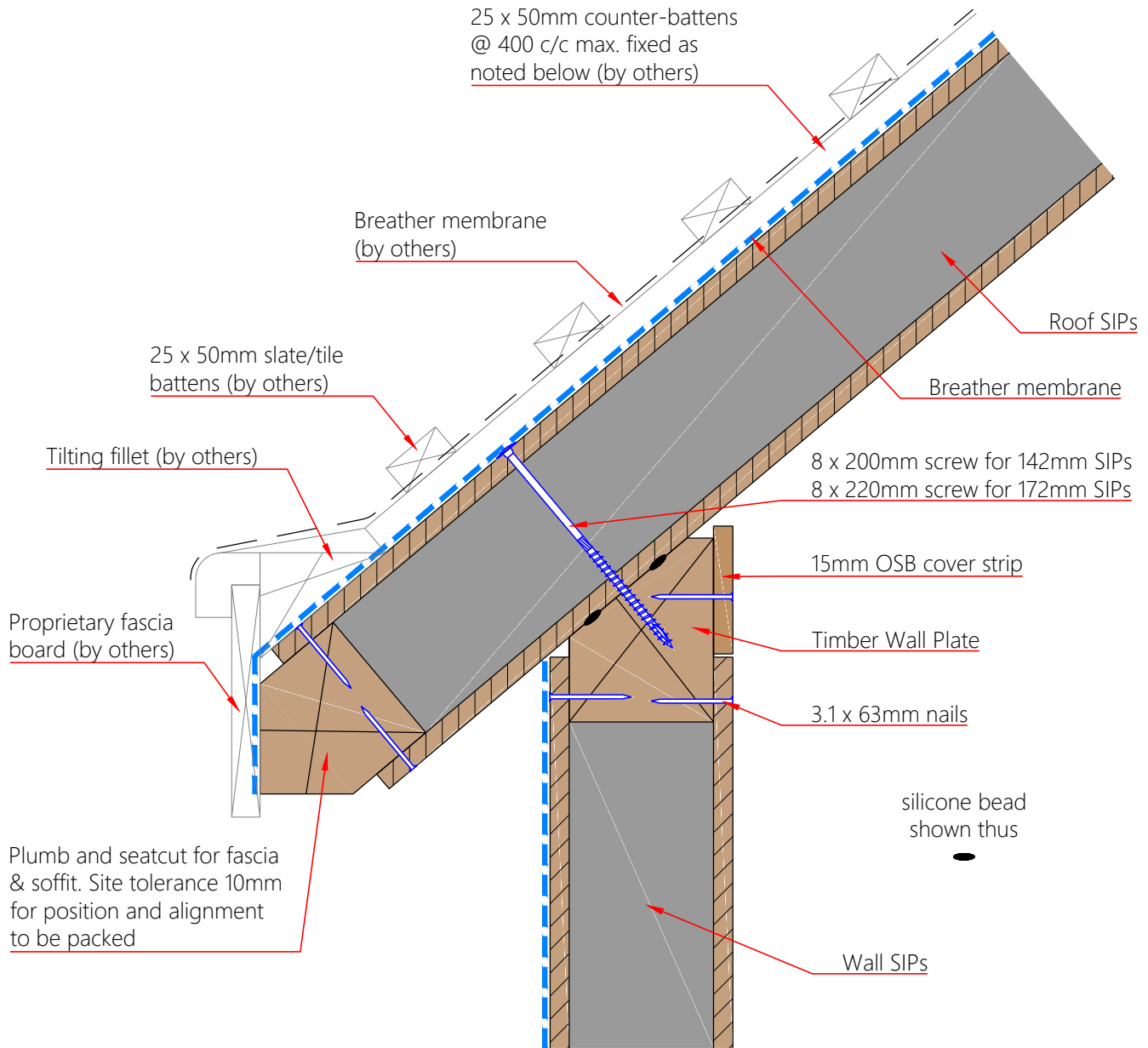
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Date:
04/12/2017

Drawn By:
M.B.

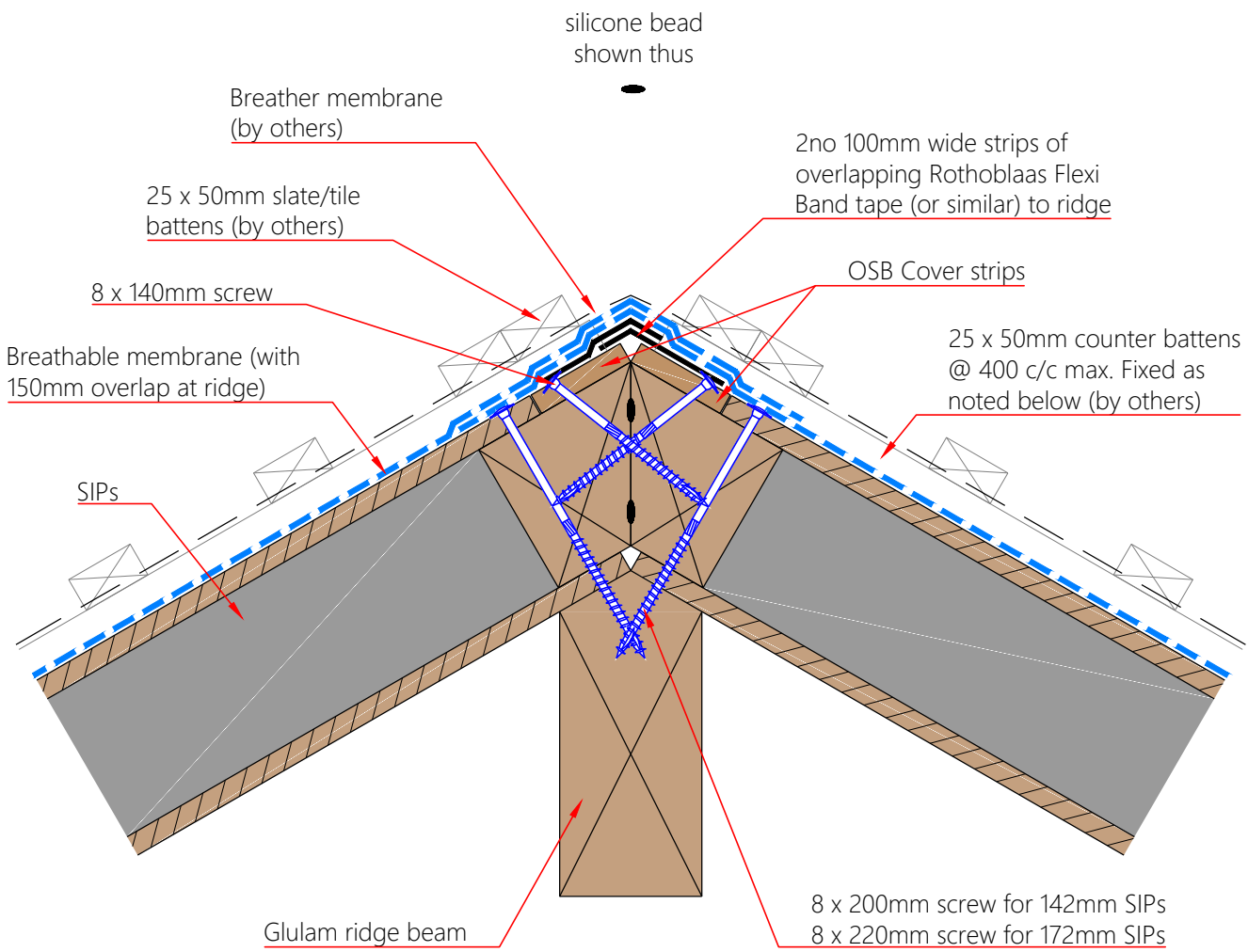
Drawing No:
GTS FL 09

Rev:
A




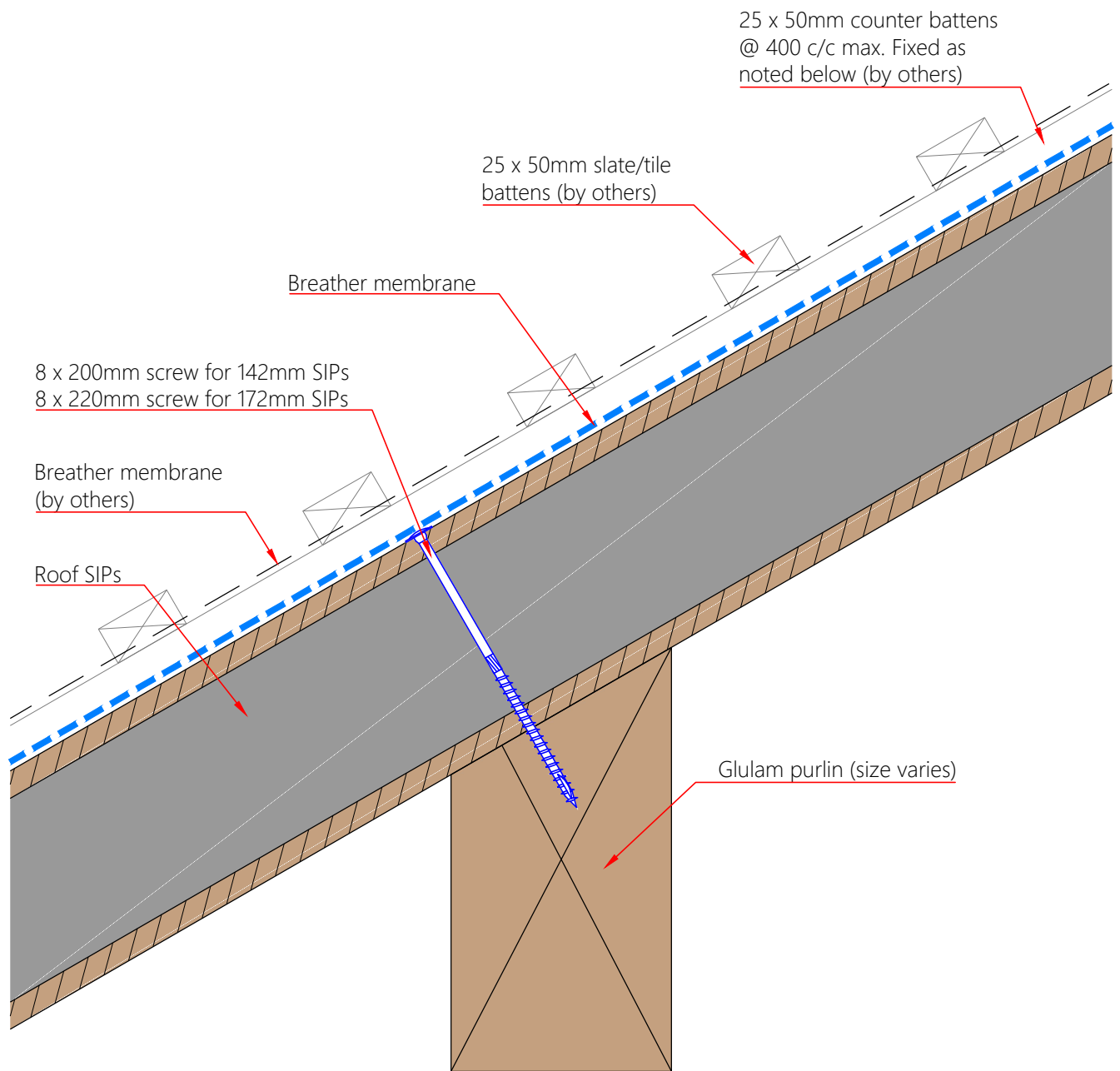
Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise
Fixing treated timber counter battens to Kingspan TEK Building System wall/roof panels for ventilation	ABC Spax 5mm x 60mm or EJOT M5 70mm stainless steel screws or equivalent (to penetrate through 15mm OSB/3 face)	Typically 300mm centres. For further guidance follow project structural engineers' recommendations

	<h2>Eaves Detail</h2>			<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:5	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS RF 01	Rev: A




Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise
Fixing treated timber counter battens to Kingspan TEK Building System wall/roof panels for ventilation	ABC Spax 5mm x 60mm or EJOT M5 70mm stainless steel screws or equivalent (to penetrate through 15mm OSB/3 face)	Typically 300mm centres. For further guidance follow project structural engineers' recommendations

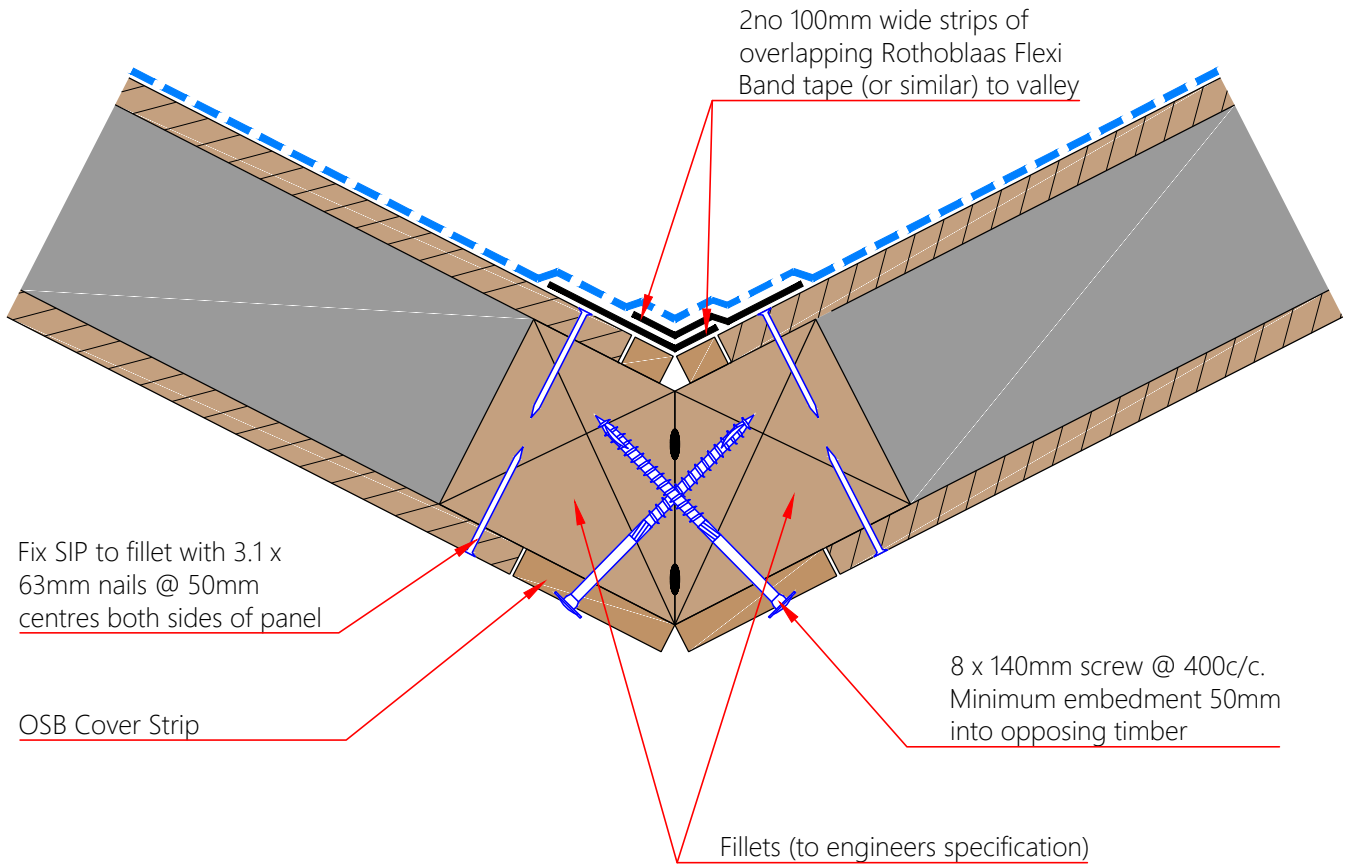
	<h1>Ridge Detail</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:5	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS RF 02




Application	Fastener Type	Spacing
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise

	<h2>Purlin Detail</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:4	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS RF 03

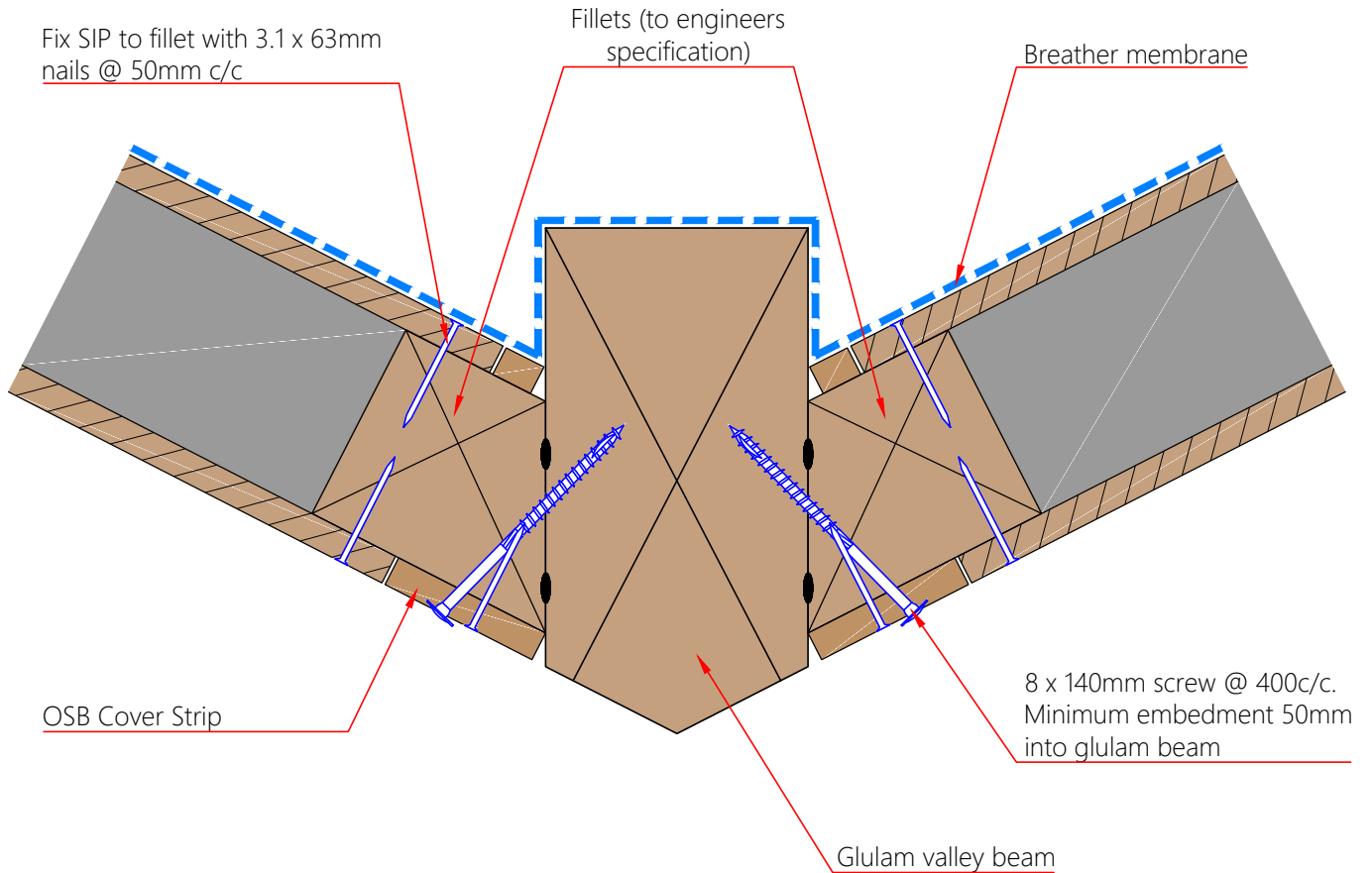
silicone bead
shown thus




Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise

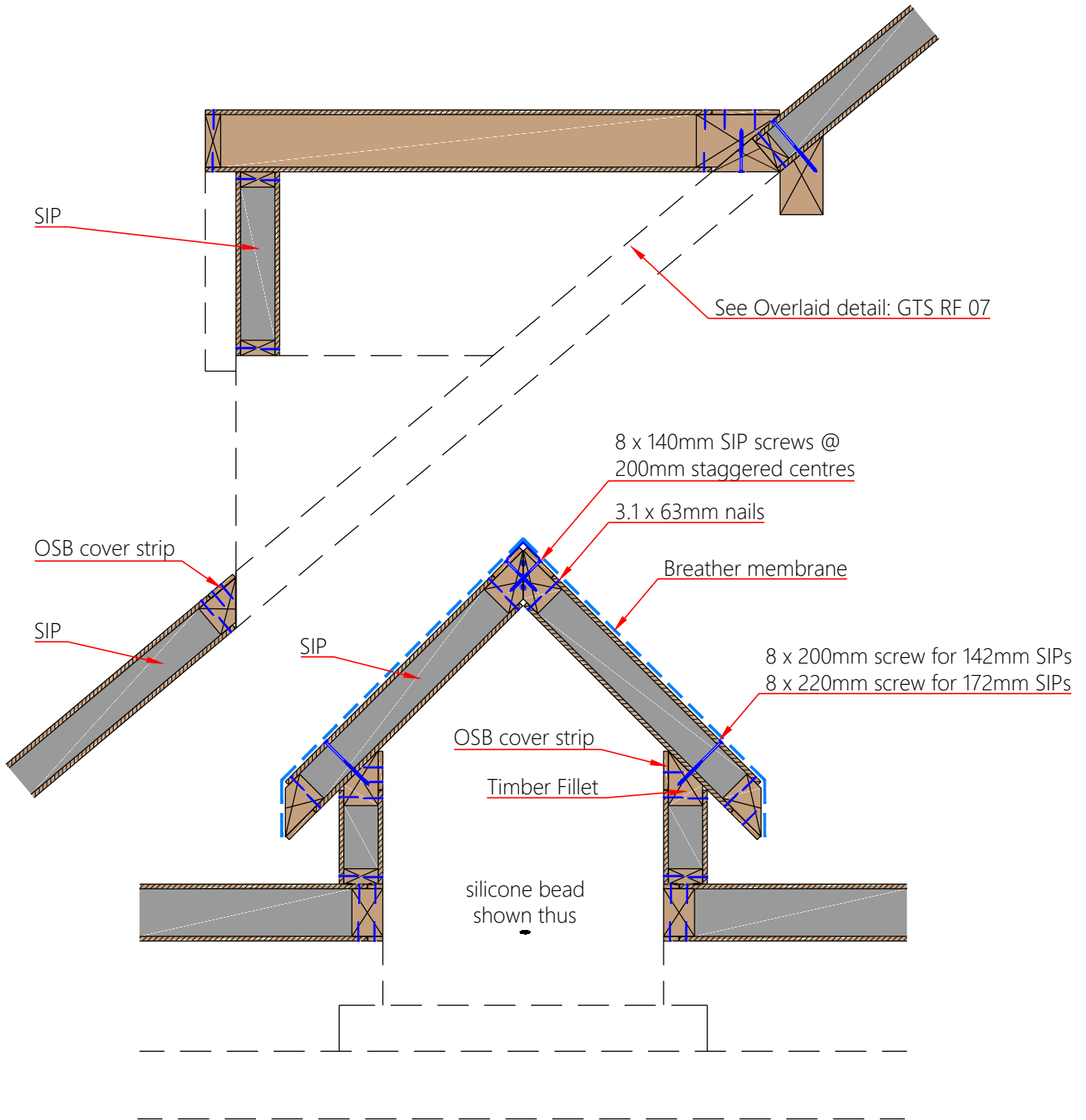
	<h1>Equal Valley Detail</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	

silicone bead
shown thus



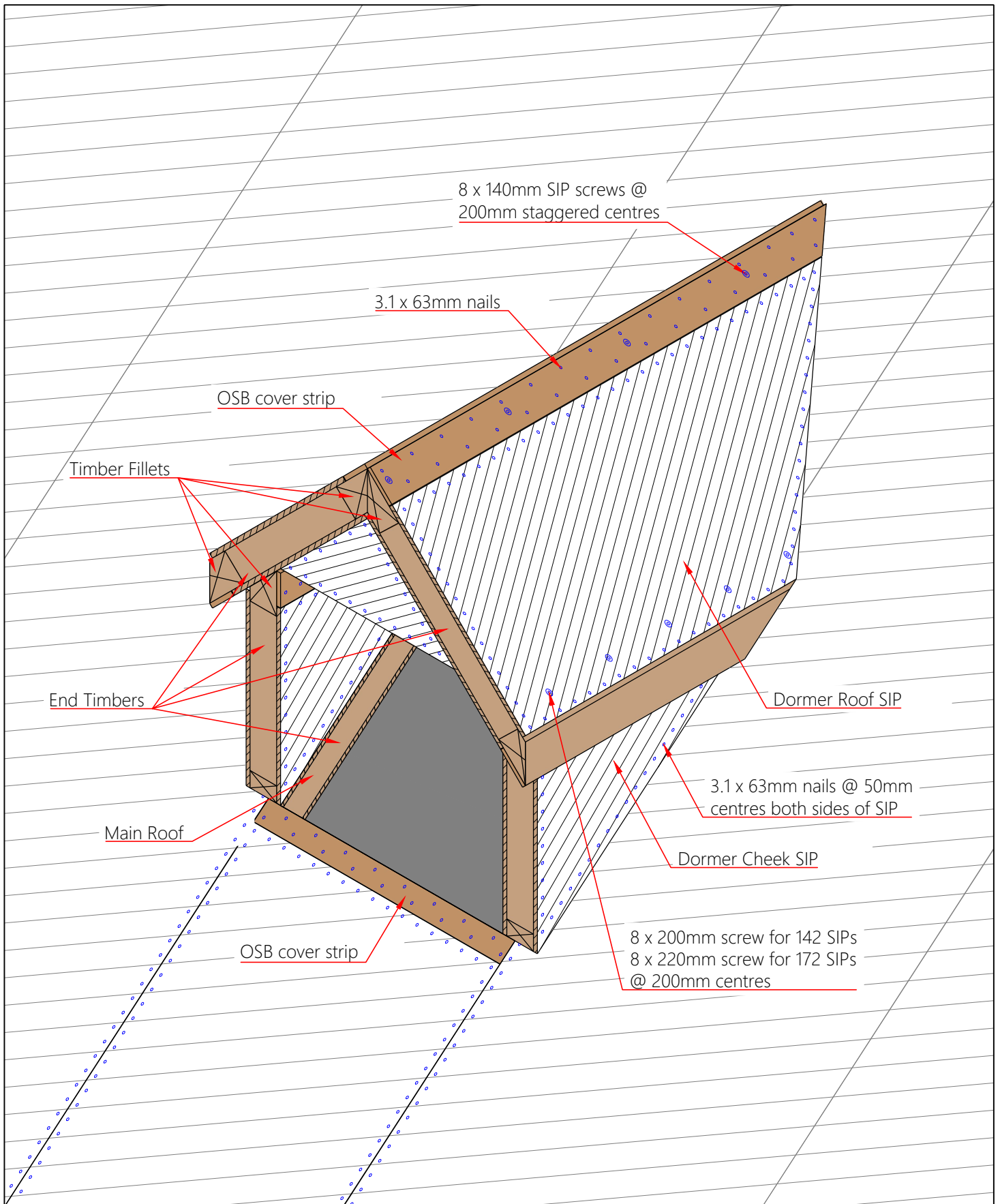
Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise

	<h2>Equal Valley Detail - with Glulam</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:4	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS RF 05



Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise

	<h1>Dormer</h1>			<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:20	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS RF 06	Rev: A



Isometric View of Dormer

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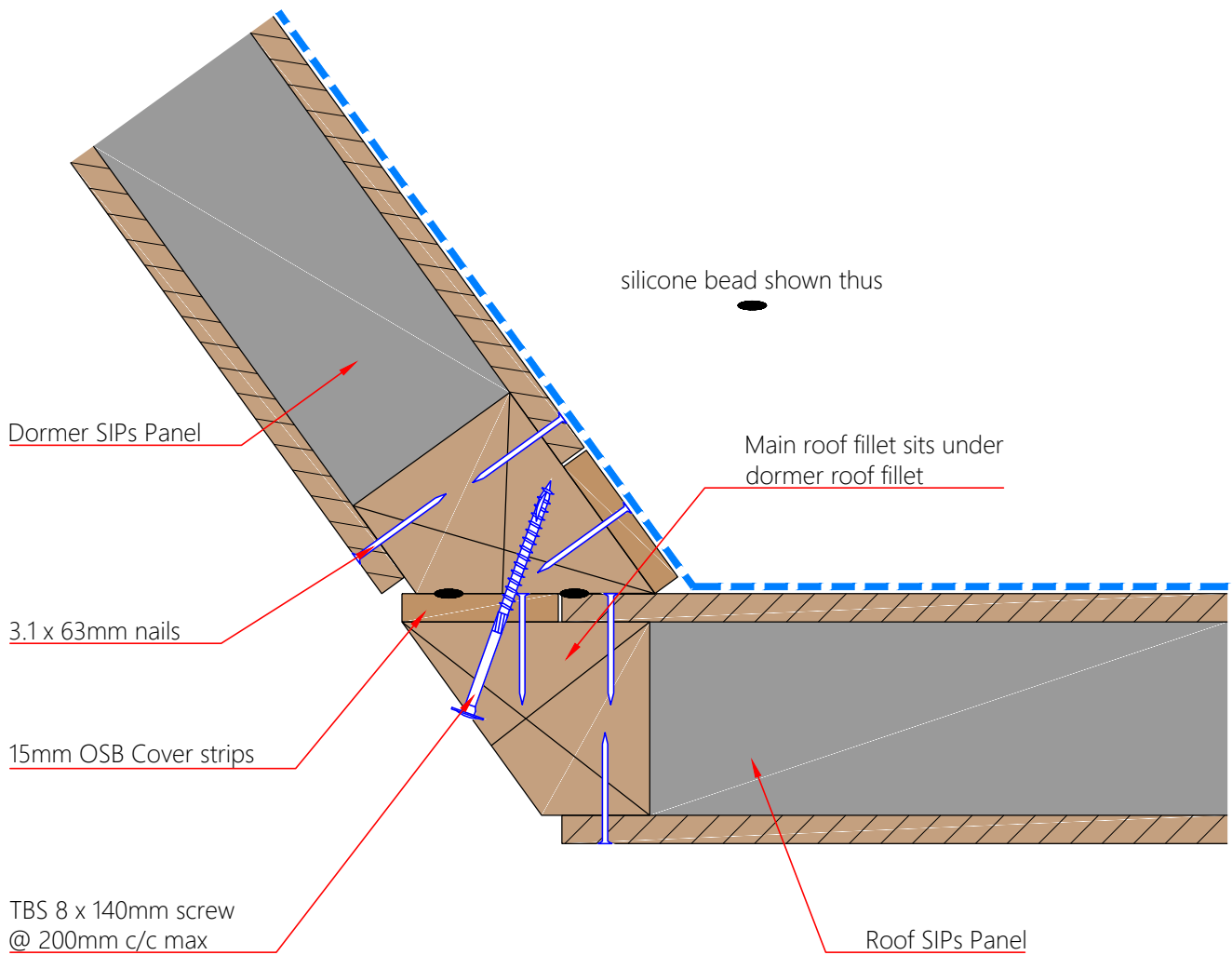
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Date:
04/12/2017

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Drawing No:
GTS RF 06A

Rev:
A



Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise



Overlaid Valley Detail

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Scale:
1:4

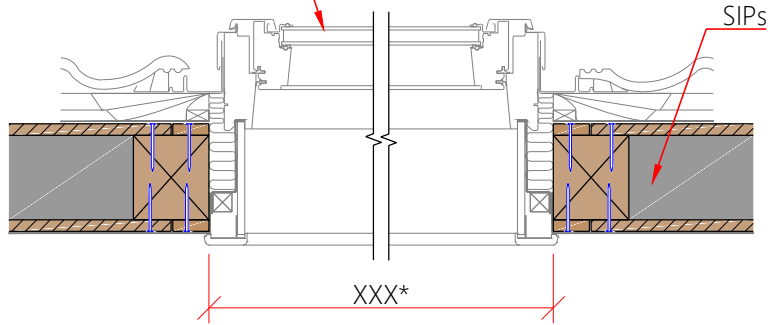
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Drawing No:
GTS RF 07

Rev:
A

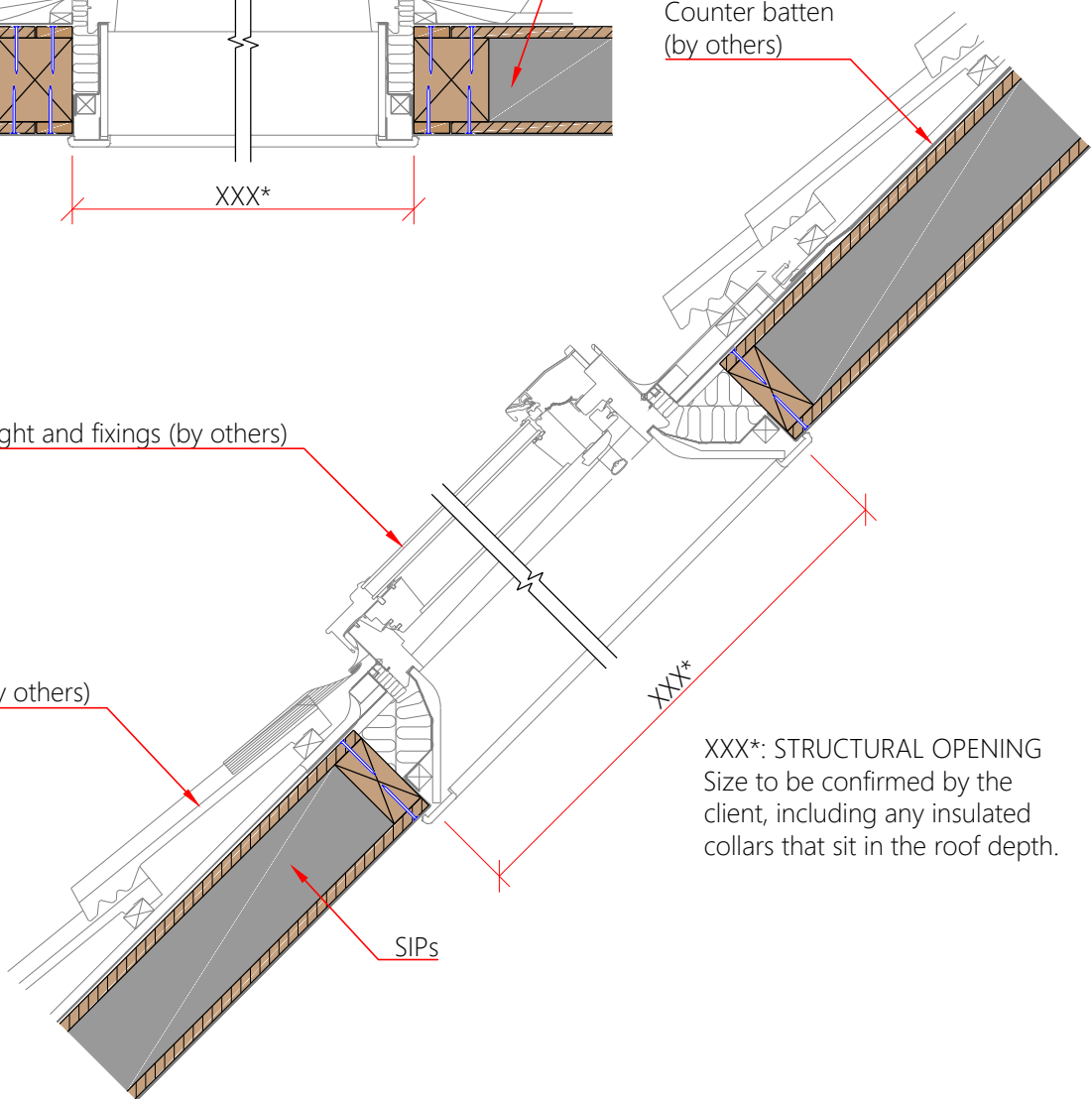
Roof light and fixings (by others)



Counter batten
(by others)

Roof light and fixings (by others)

Roof cladding (by others)



XXX*: STRUCTURAL OPENING
Size to be confirmed by the
client, including any insulated
collars that sit in the roof depth.



Rooflight

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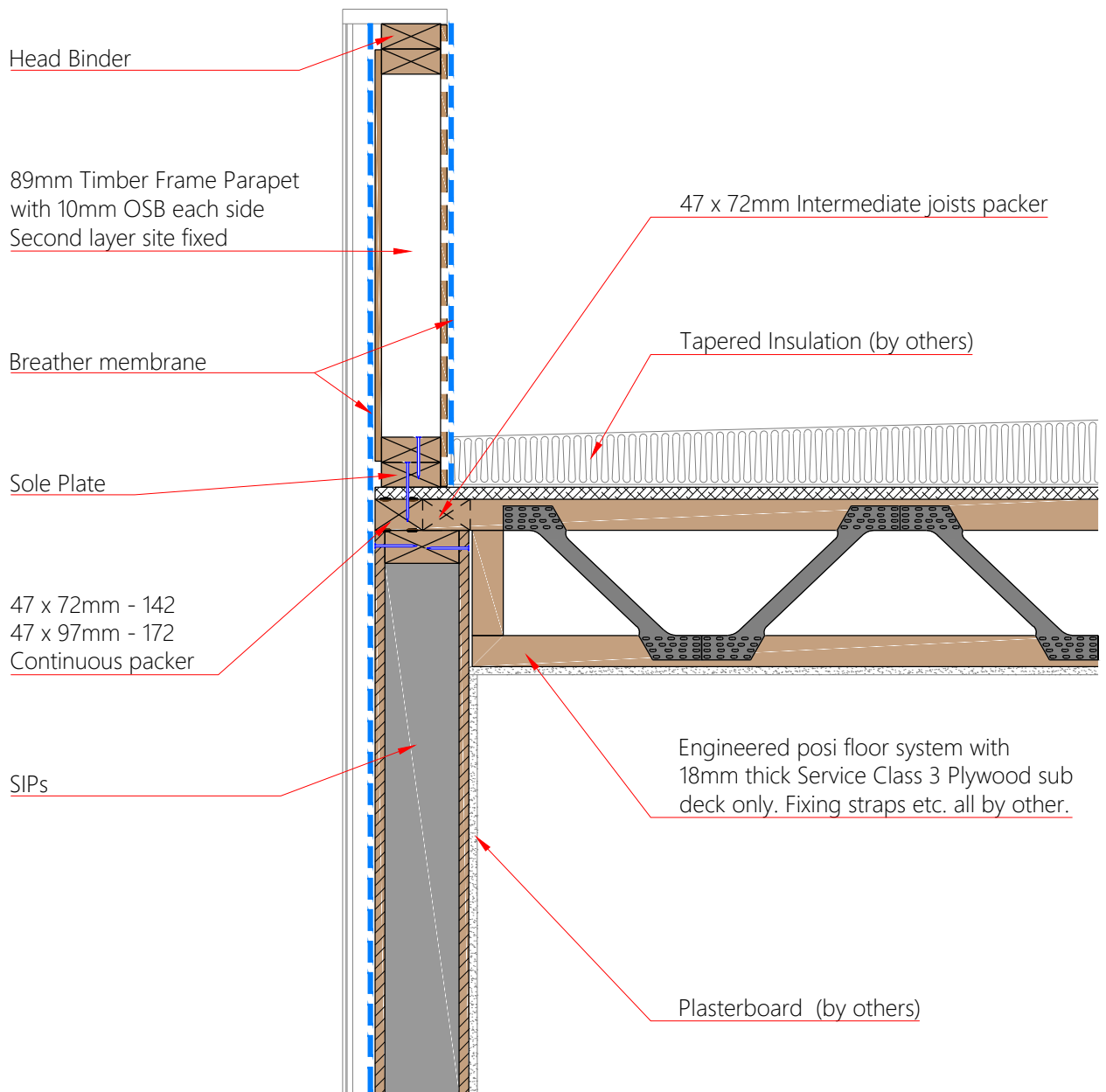
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04/12/2017

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Drawing No:
GTS RF 08

Rev:
A



Parapet Detail

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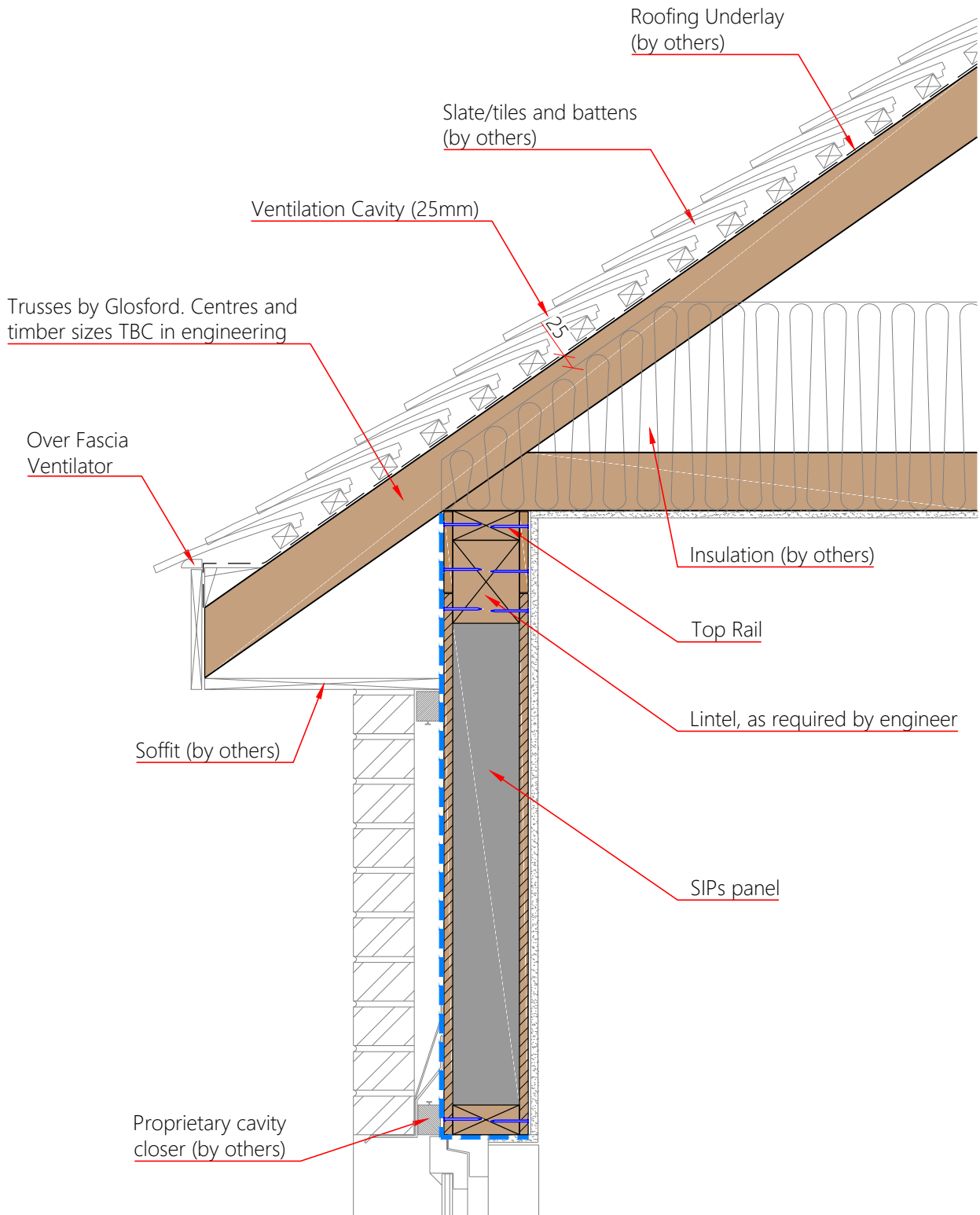
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Date:
04/12/2017

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Drawing No:
GTS RF 09

Rev:
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SIP with Truss Roof

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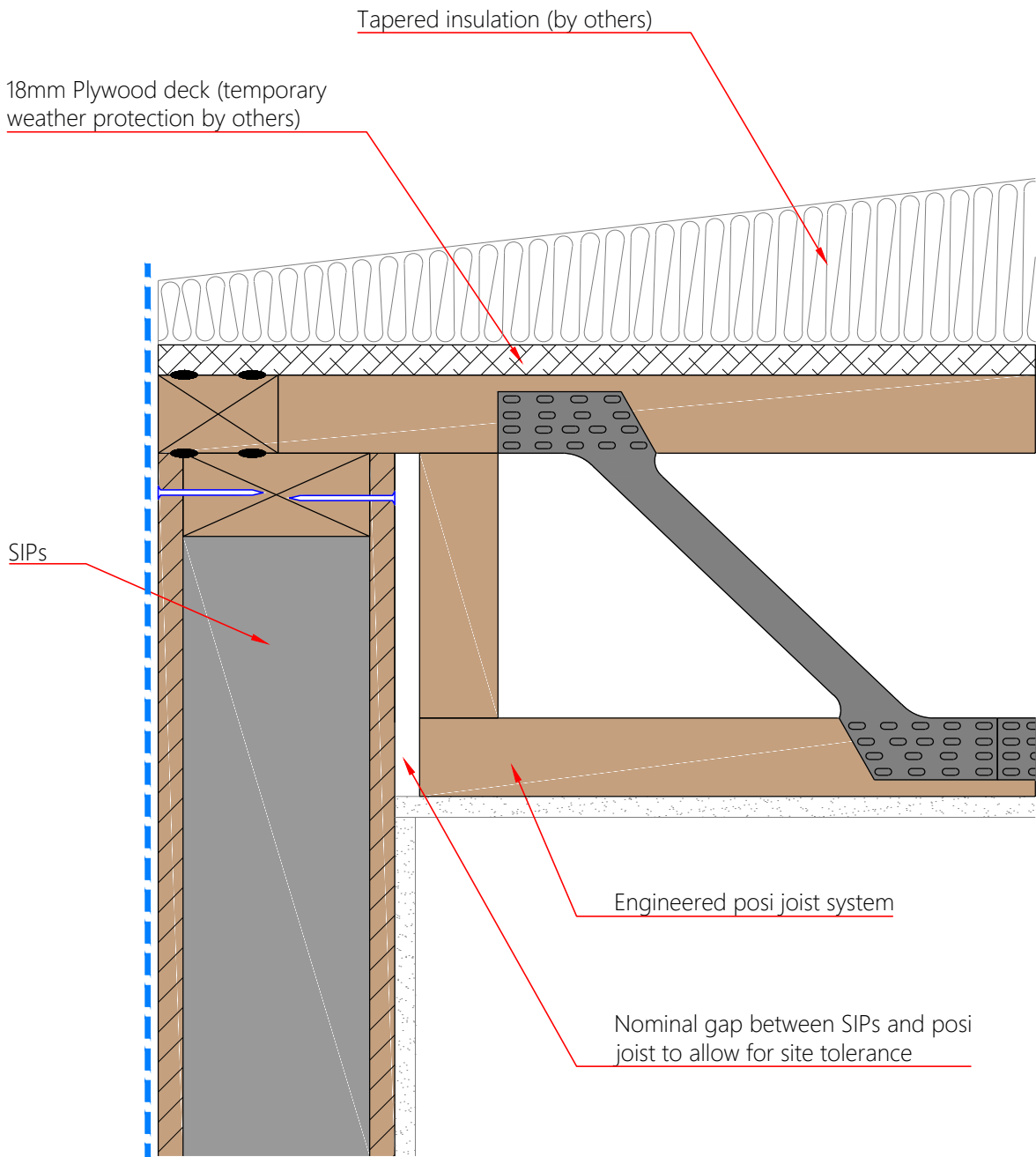
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04/12/2017

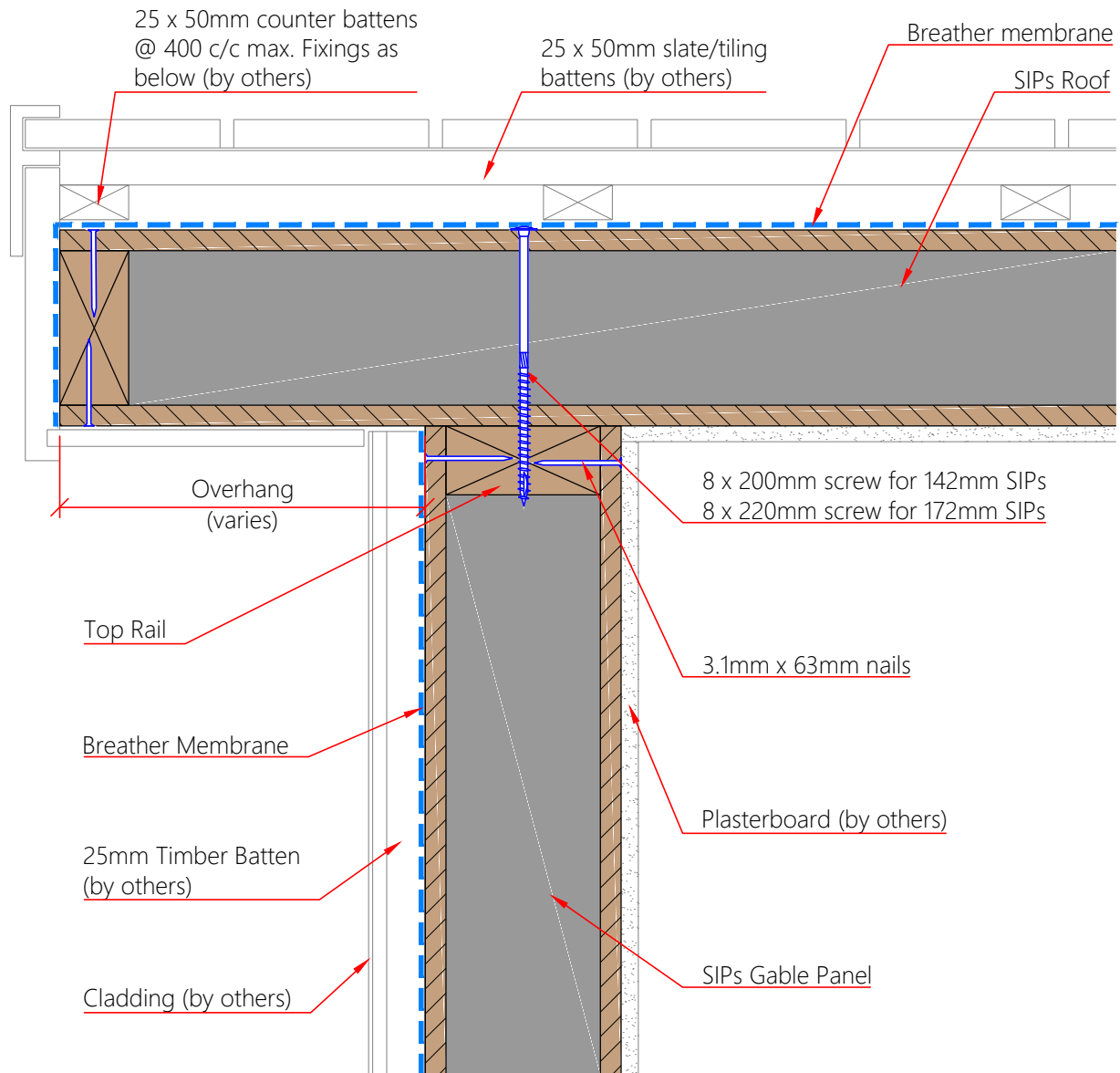
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M.B.

Drawing No:
GTS RF 10


Rev:
A

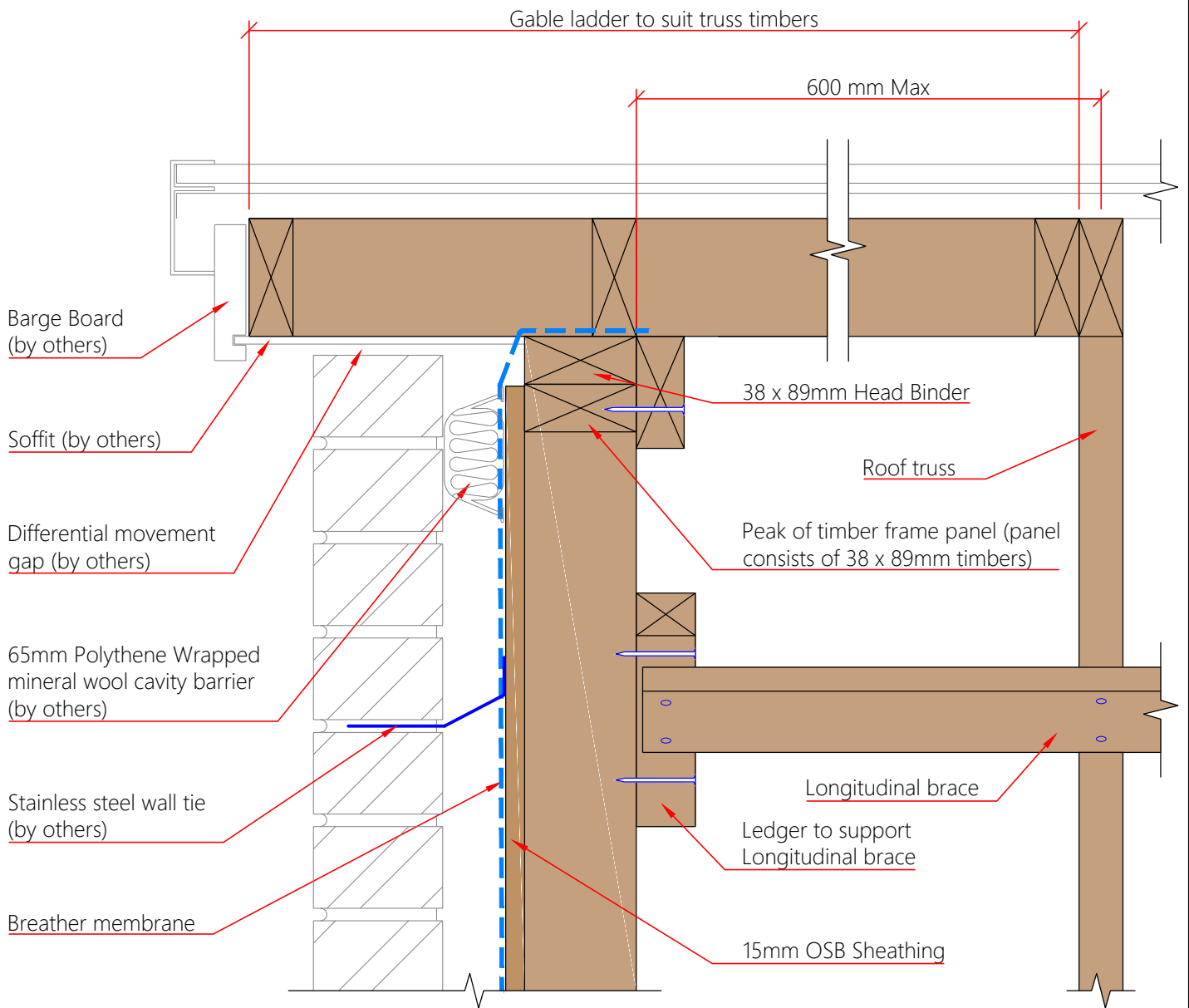


	<h2 style="text-align: center;">Flat Roof Detail</h2>		<p style="text-align: center;">Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	



Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise
Fixing treated timber counter battens to Kingspan TEK Building System wall/roof panels for ventilation	ABC Spax 5mm x 60mm or EJOT M5 70mm stainless steel screws or equivalent (to penetrate through 15mm OSB/3 face)	Typically 300mm centres. For further guidance follow project structural engineers' recommendations

	<h2>SIPs Roof Verge & Soffit Detail</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	



Truss Roof to Timber
Frame Gable Wall:
Verge & Soffit Detail

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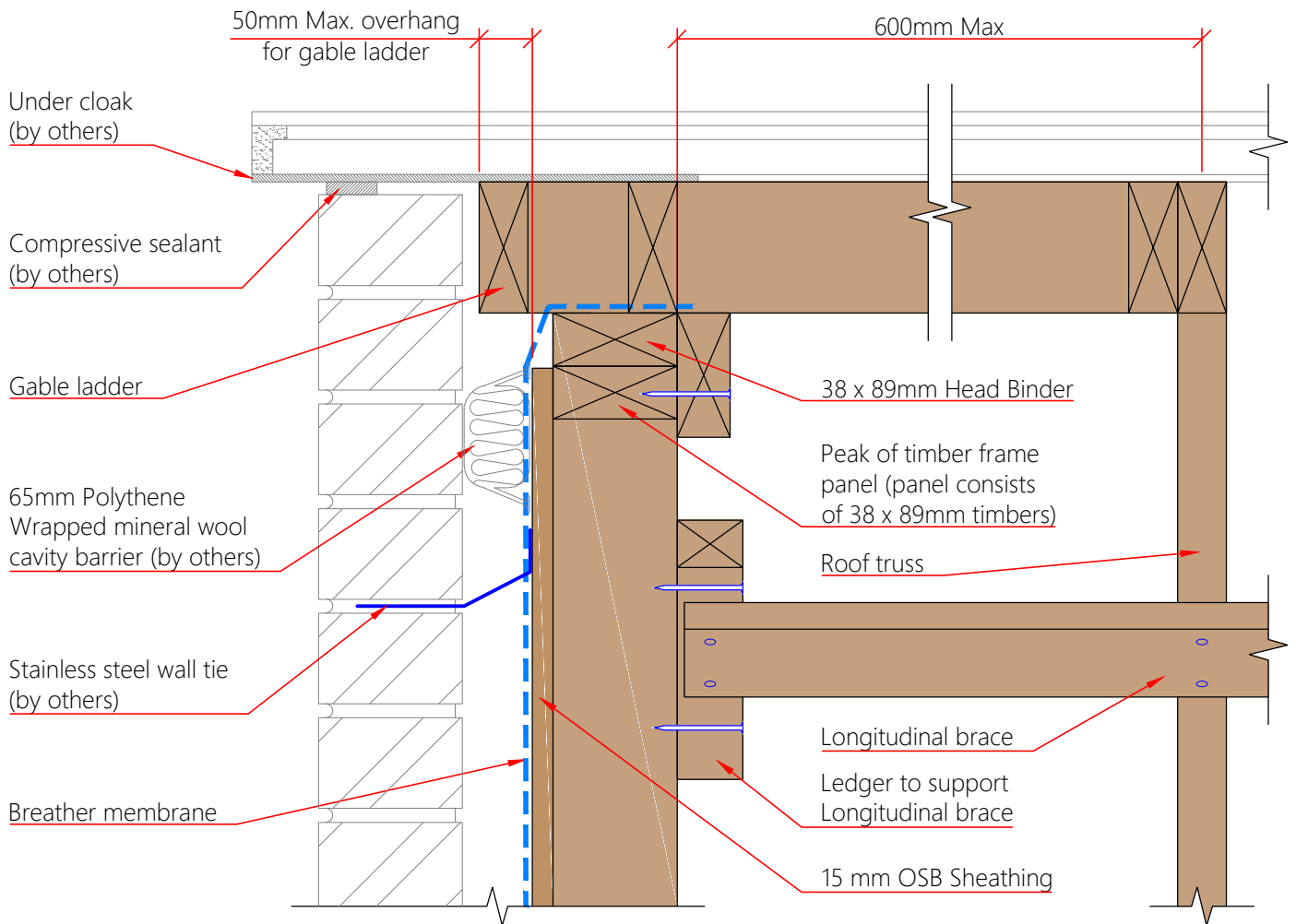
Scale:
1:5

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 13

Rev:
A



Truss Roof to Timber Frame Gable Wall: Clipped Verge Detail

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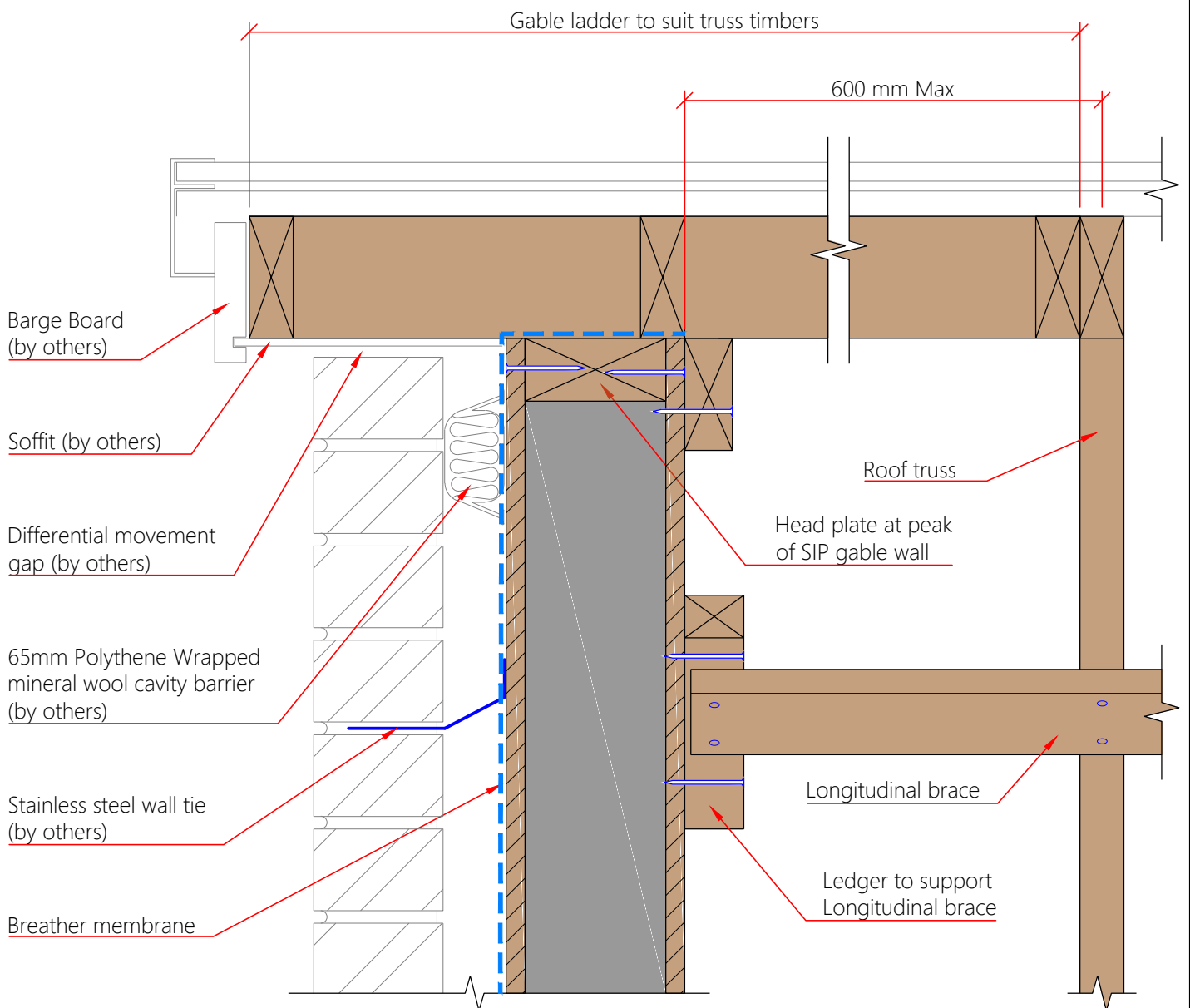
Scale:
1:5

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 14

Rev:
A



Truss Roof to SIPs Gable Wall: Verge & Soffit Detail

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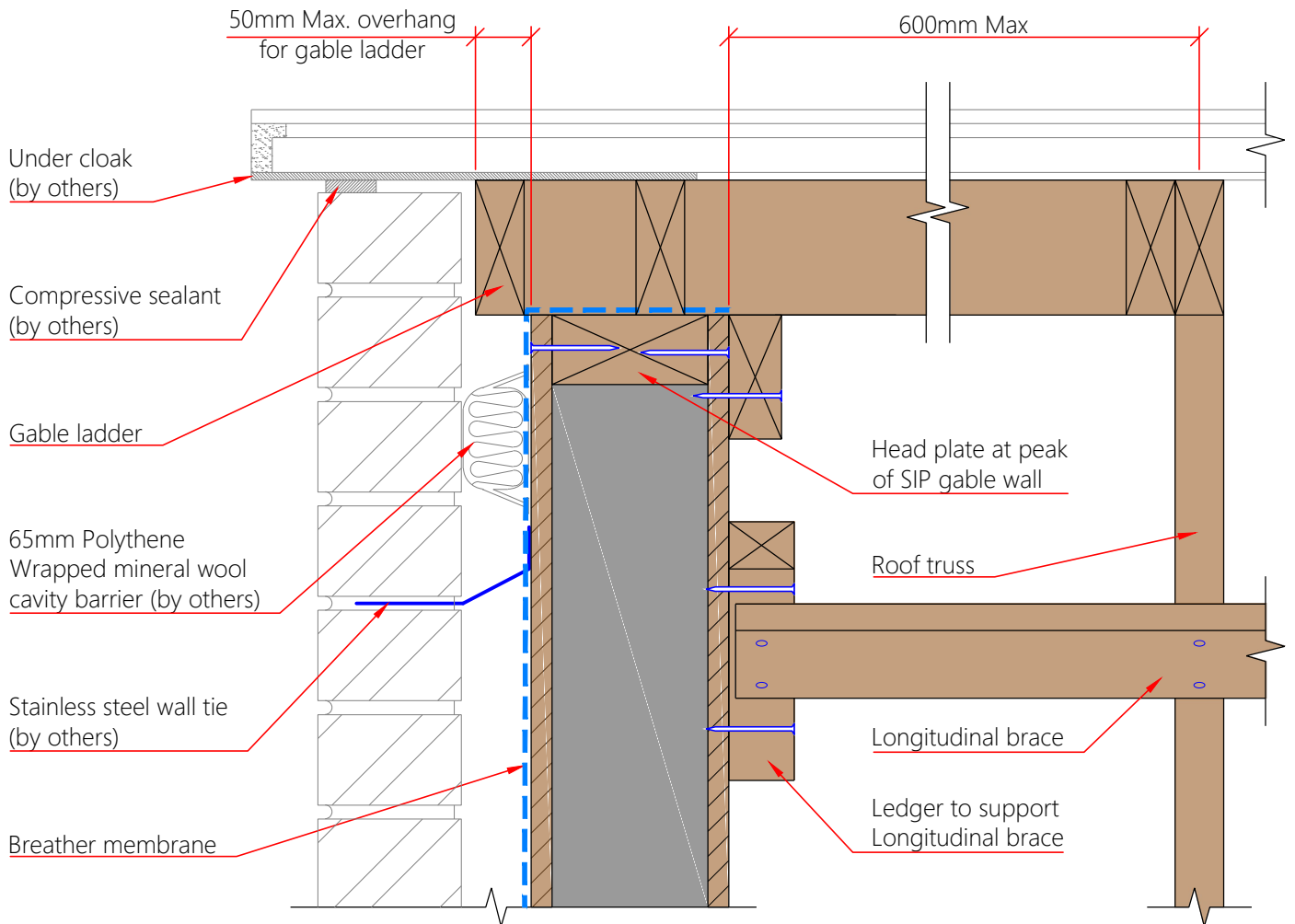
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 15

Rev:
A



Truss Roof to SIPs Gable Wall: Clipped Verge Detail

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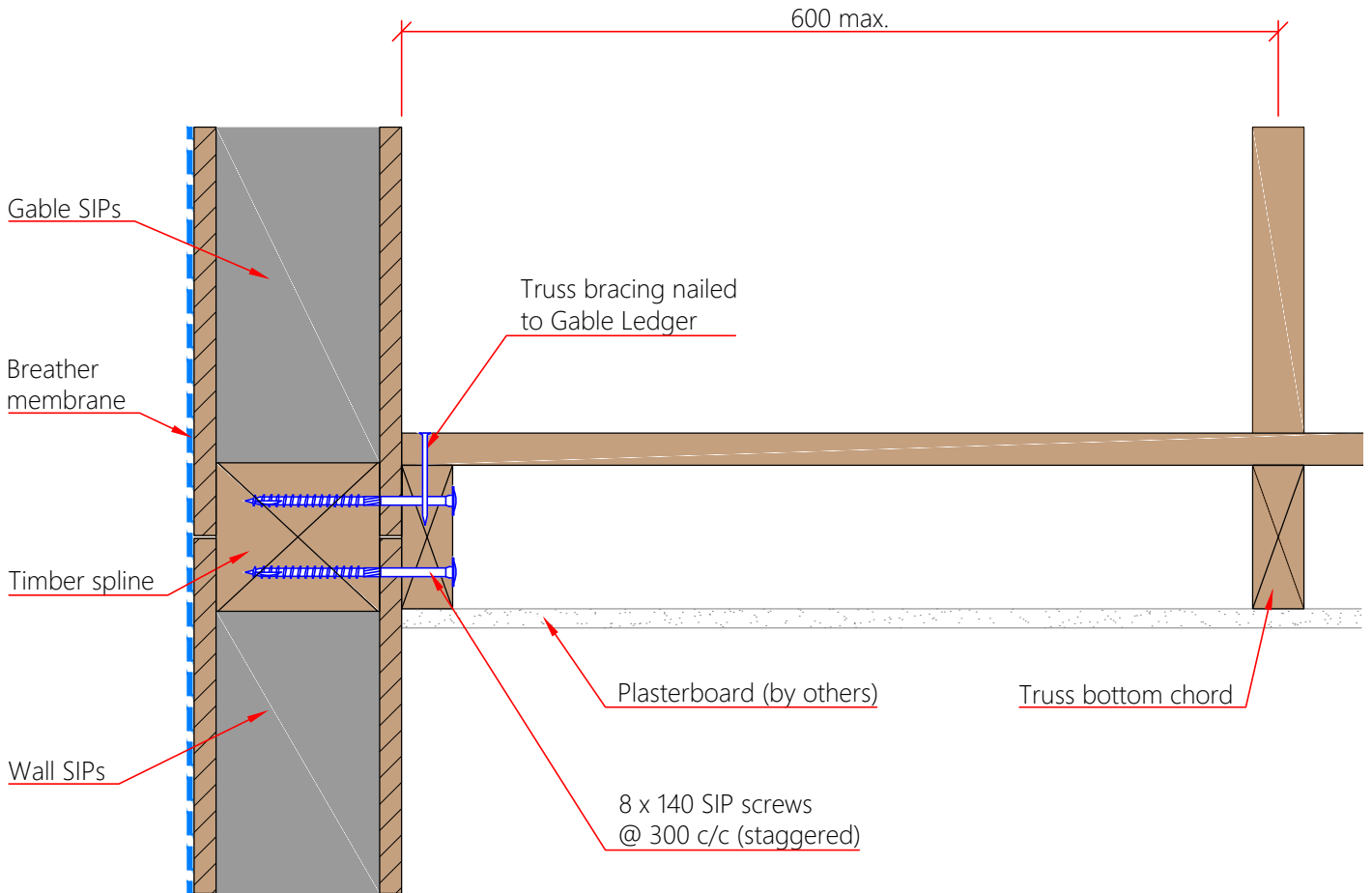
Scale:
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04/12/2017

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M.B.

Drawing No:
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Rev:
B



This detail is the same when the gable wall is full height from first floor level, except ledger screwed from outside



Truss Roof: SIPs Gable Wall to Truss Bracing

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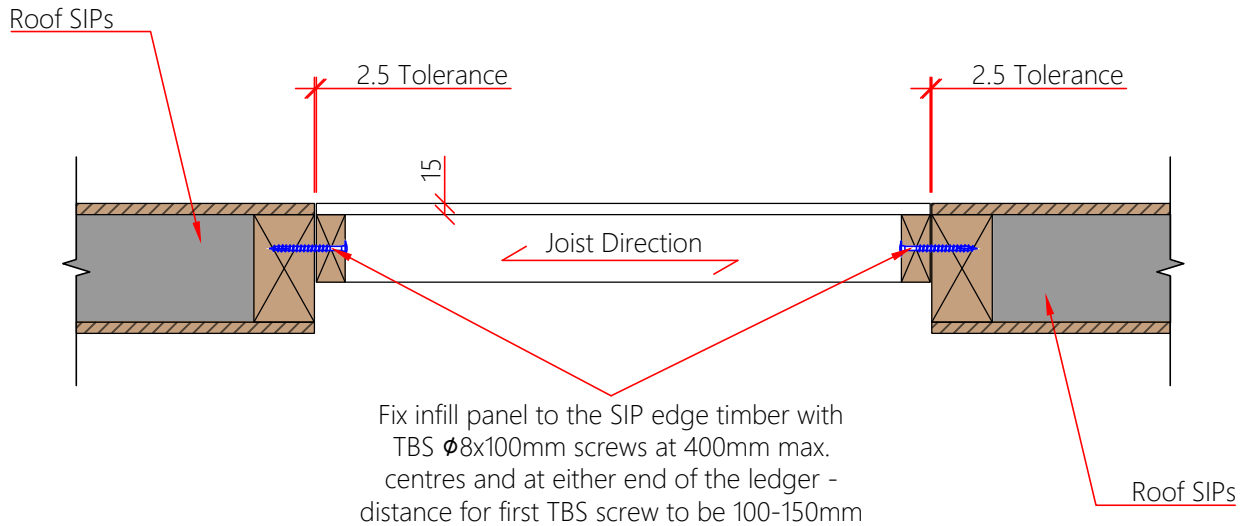
Scale:
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 17

Rev:
A



Spans below 2.4m: 38x89mm joists at 400mm centres

Spans between 2.4 and 3.6 m wide: 38x140mm joists at 400mm centres

15mm OSB supplied loose, to be fitted on site.



SIPs Roof Opening Infill Panel

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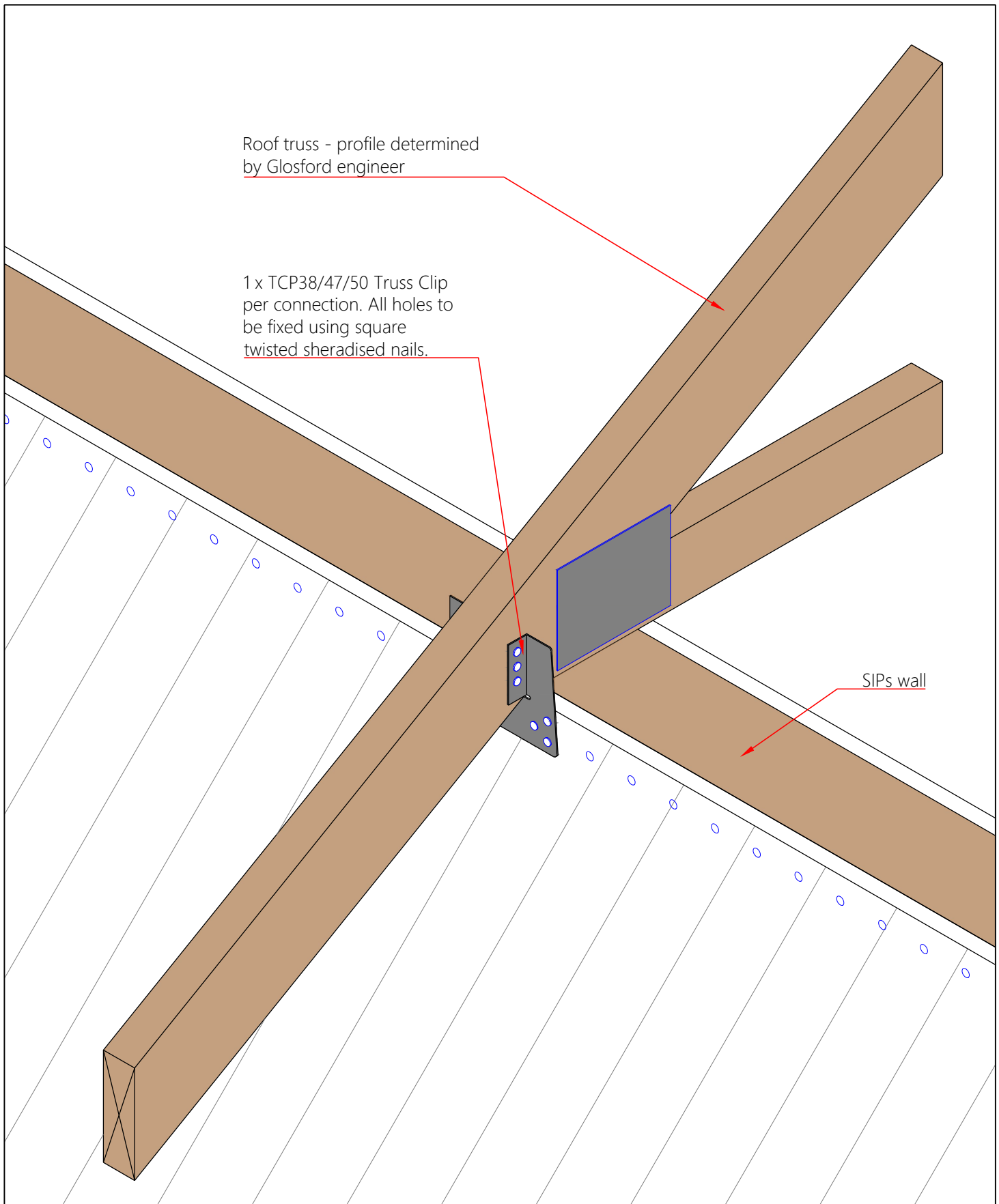
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Date:
04/12/2017

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M.B.

Drawing No:
GTS RF 18

Rev:
A



Roof Truss Connection to SIPs Wall Detail

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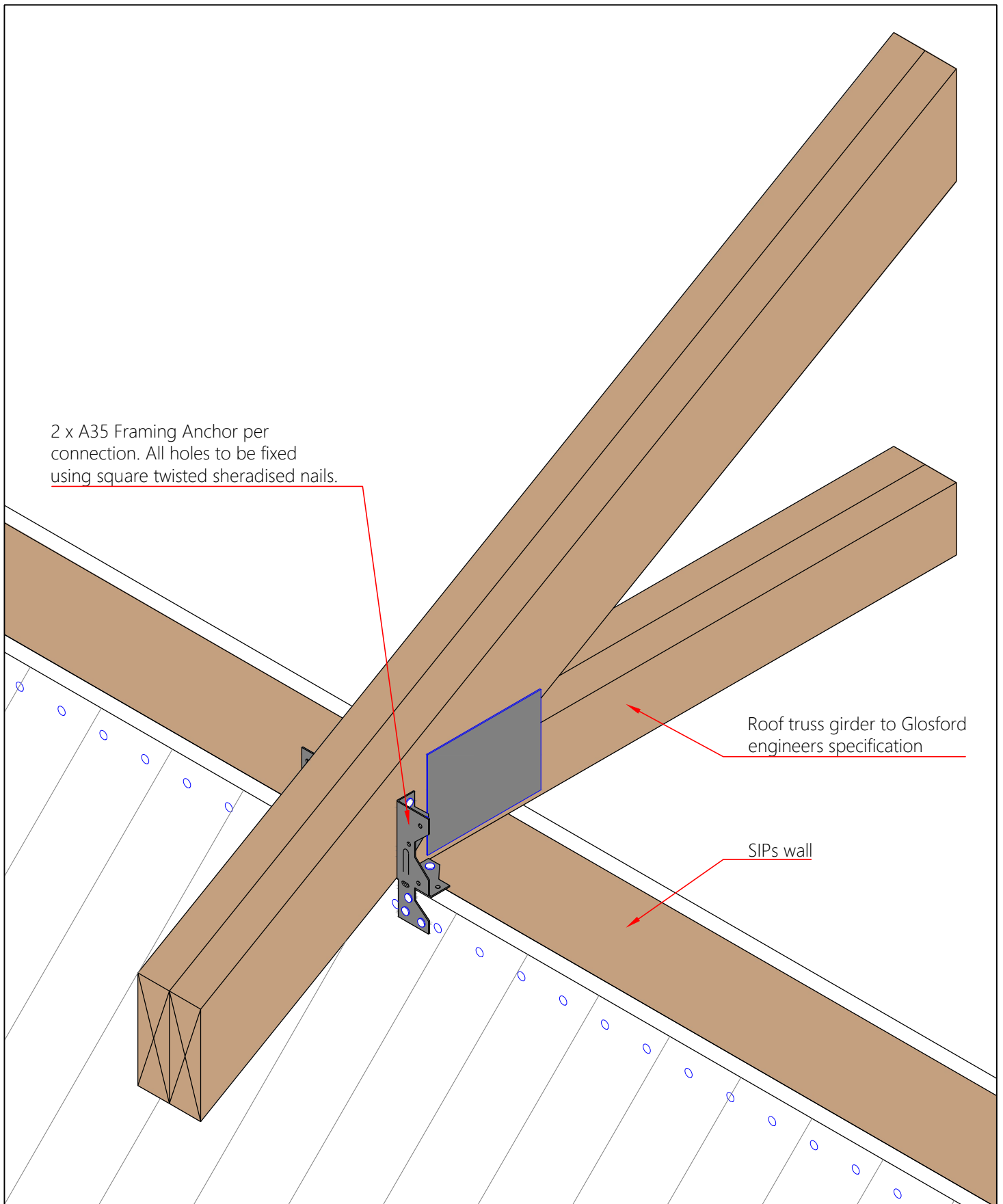
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 19

Rev:
A



Truss Girder Connection to SIPs Wall Detail

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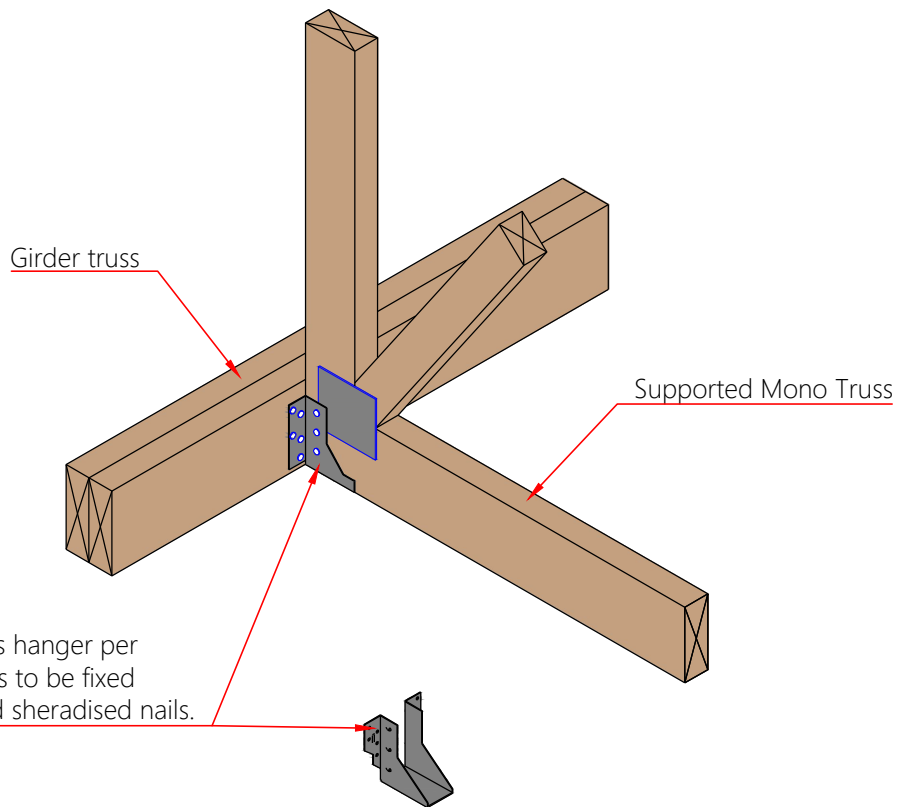
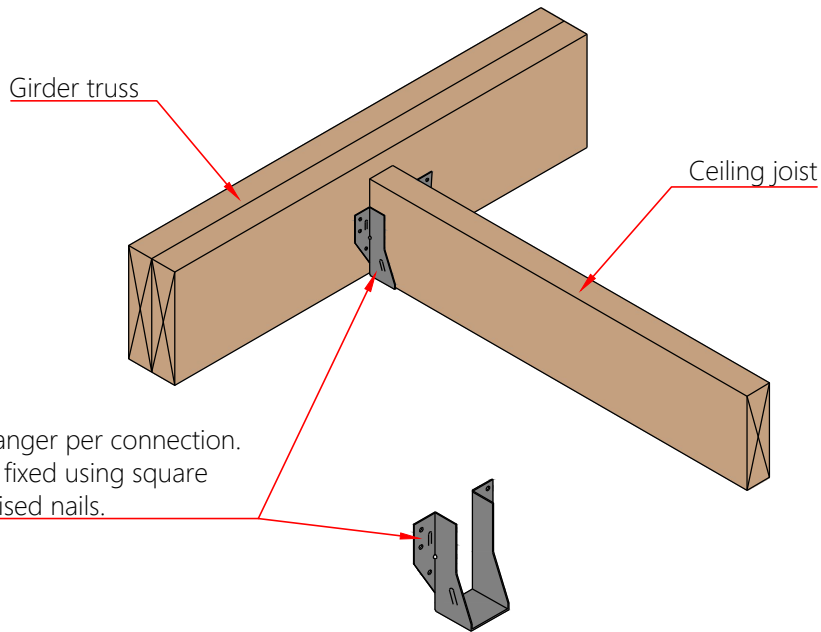
Scale:
N.T.S.

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 20

Rev:
A



Typical Truss Hanger Details

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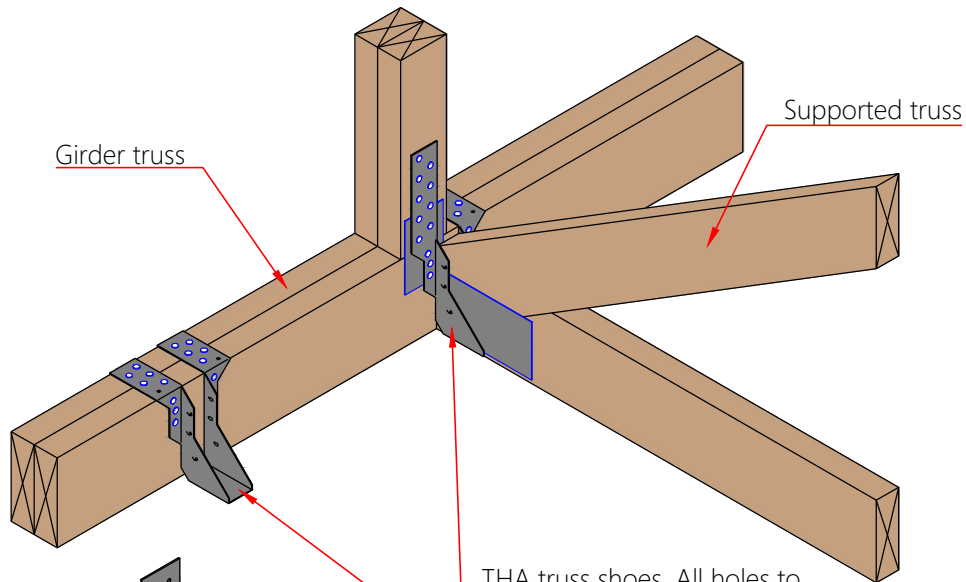
Scale:
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Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 21

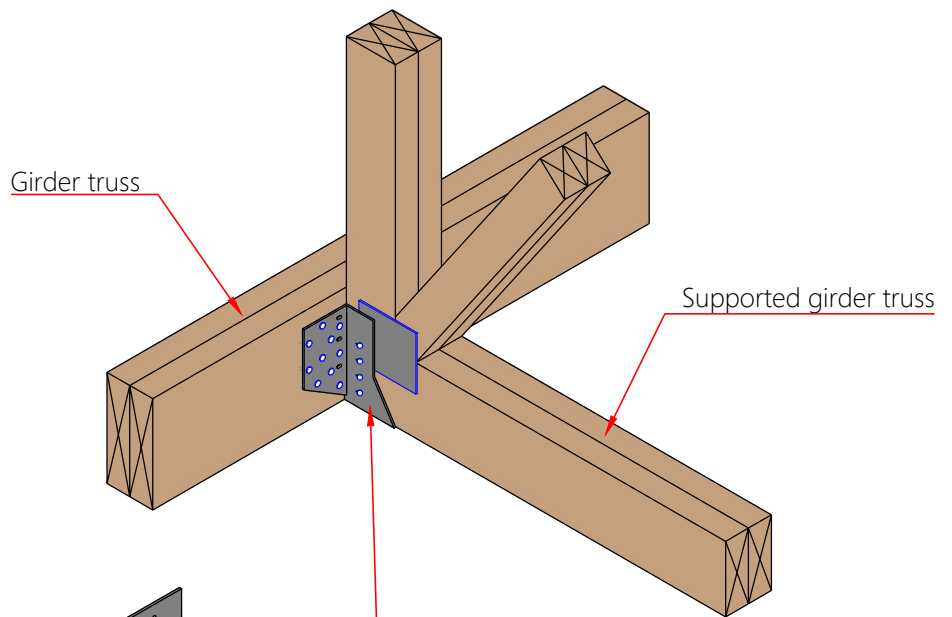
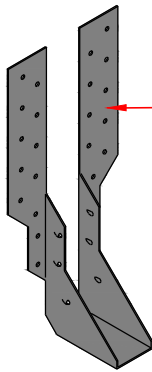
Rev:
A



Girder truss

Supported truss

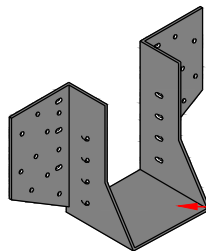
THA truss shoes. All holes to be fixed using long square twisted sheradised nails



Girder truss

Supported girder truss

HGUS truss shoes. All holes to be fixed using long square twisted sheradised nails. Nails must be driven at an angle through the truss into the carrying member to achieve full fixing.



Typical Truss Hanger Details 2

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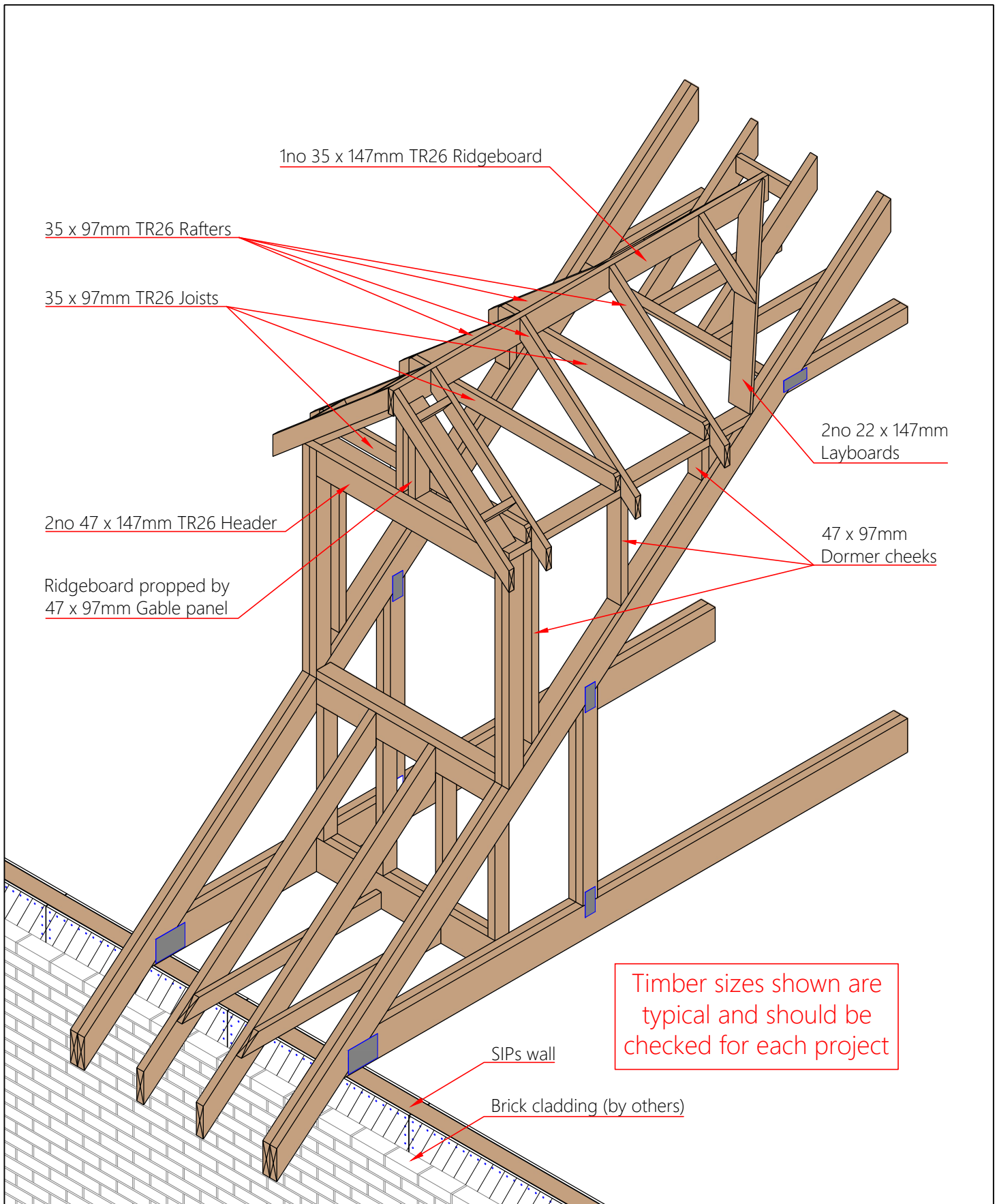
Scale:
N.T.S.

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS RF 22

Rev:
A



Truss Roof: Attic Dormer Roof Construction Detail

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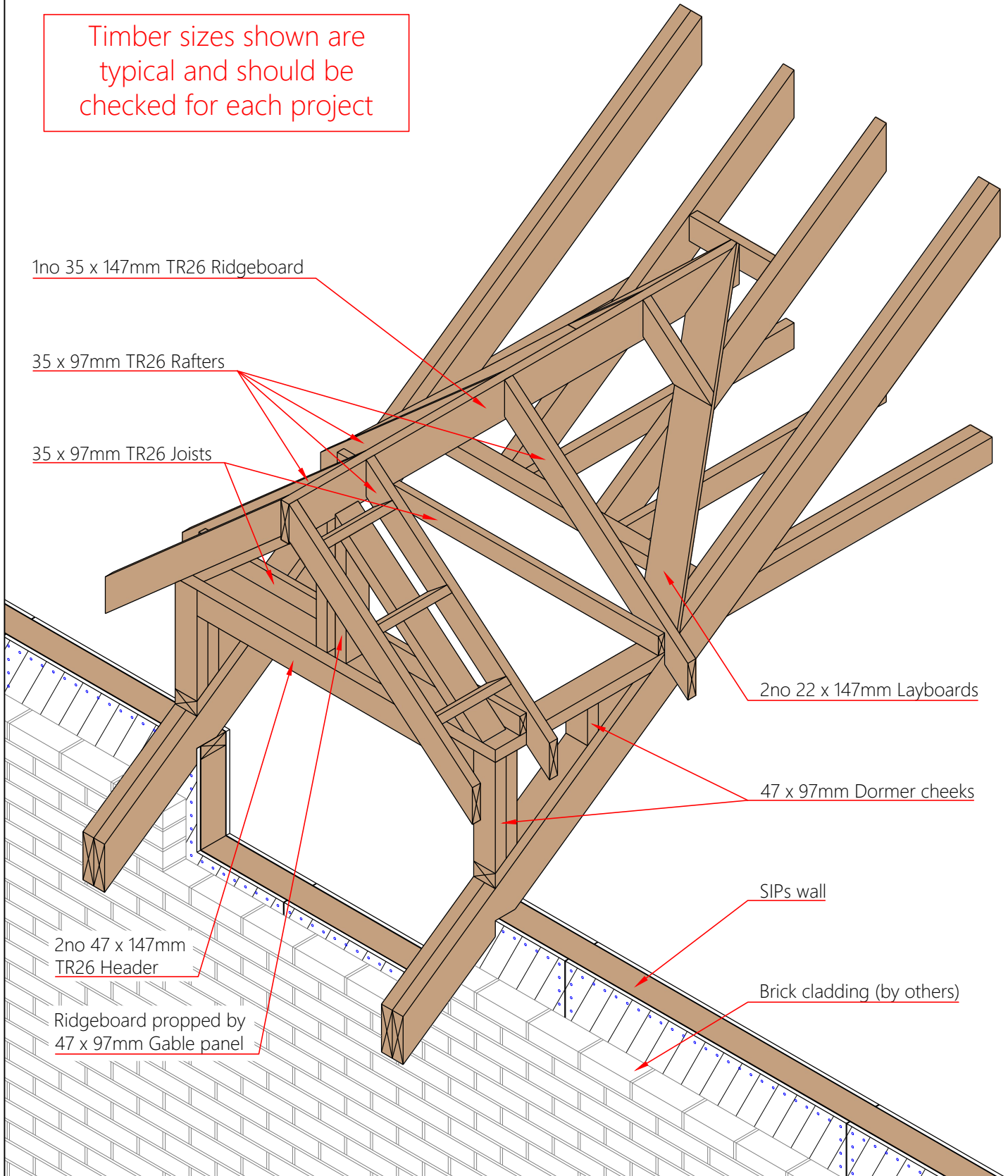
Date:
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Drawing No:
GTS RF 23

Rev:
A

Timber sizes shown are typical and should be checked for each project



Truss Roof: Raised Dormer Roof Construction Detail

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Scale:
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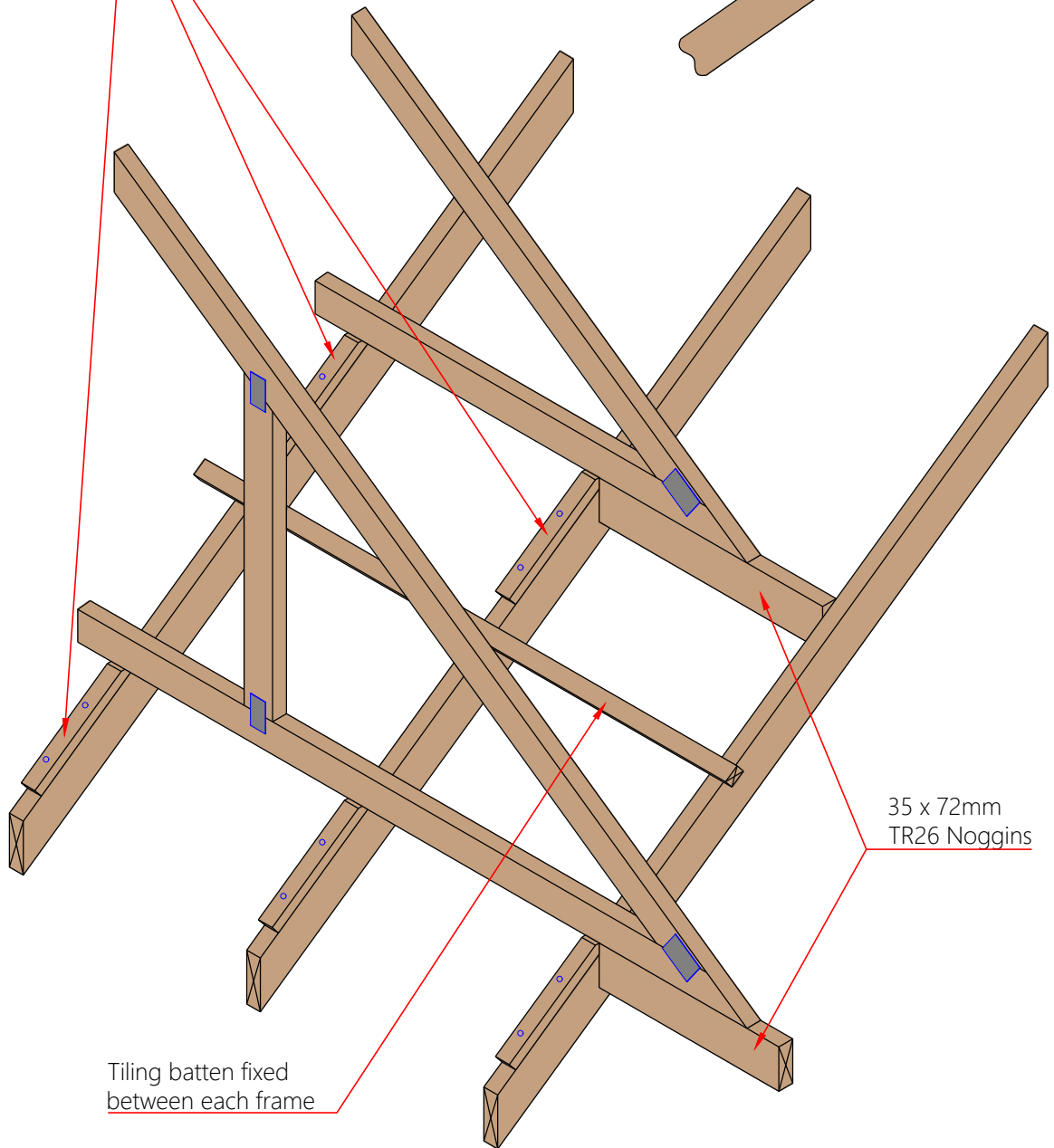
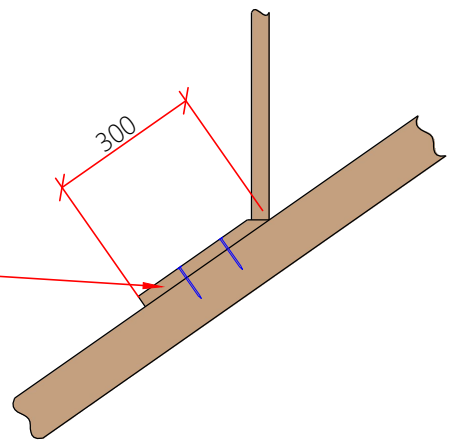
Date:
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Drawing No:
GTS RF 24

Rev:
A

25 x 35/47 x 300mm long
timber fixed to rafter with
3.1 x 75mm long
galvanised wire nails



35 x 72mm
TR26 Noggins

Tiling batten fixed
between each frame



Truss Roof: Valley Frame Construction Detail

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Date:
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Drawn By:
M.B.

Drawing No:
GTS RF 25

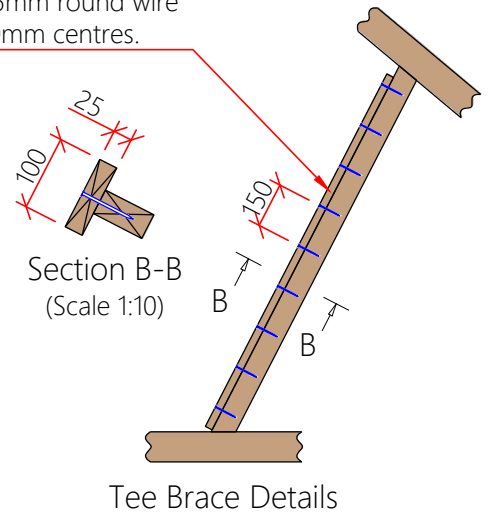
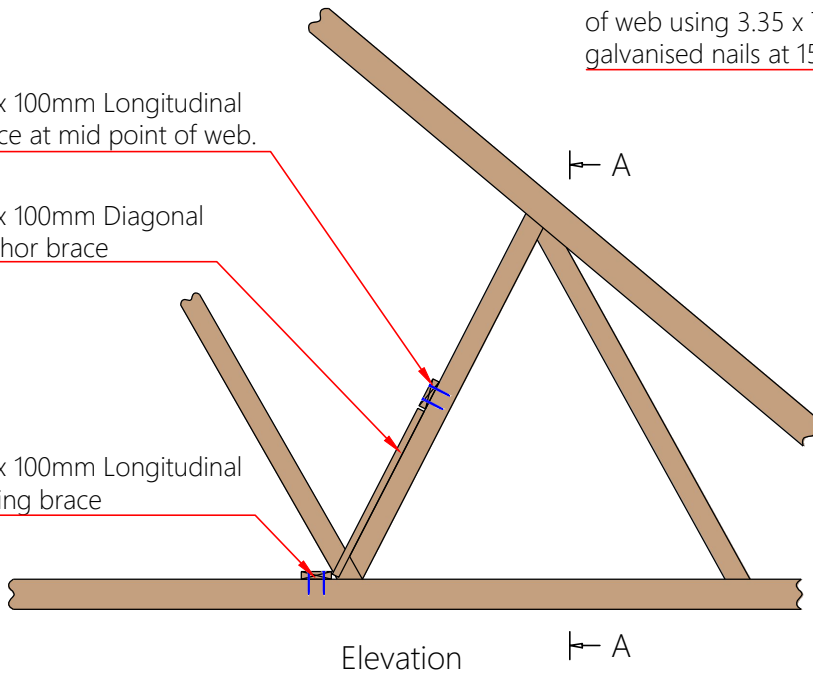
Rev:
A

25 x 100mm member nailed to edge of web using 3.35 x 75mm round wire galvanised nails at 150mm centres.

25 x 100mm Longitudinal brace at mid point of web.

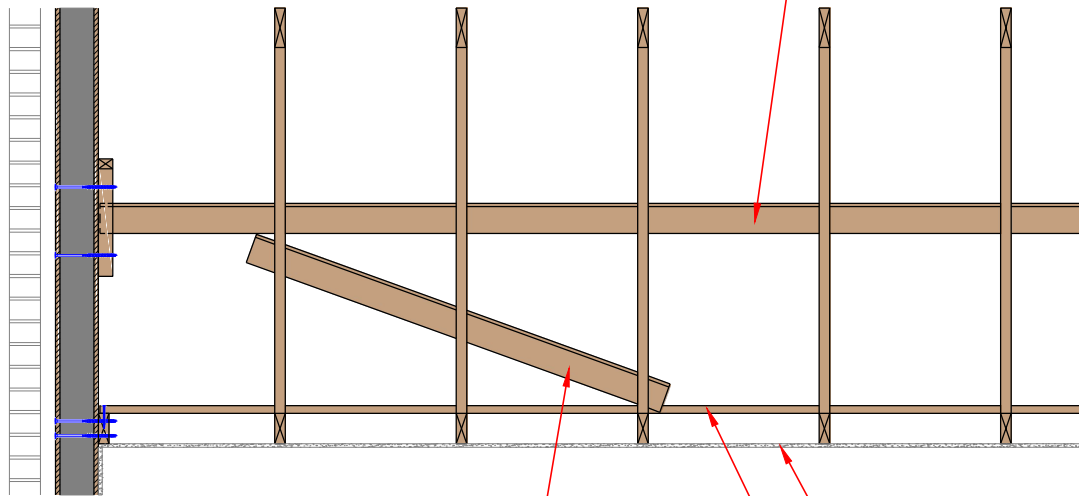
25 x 100mm Diagonal anchor brace

25 x 100mm Longitudinal ceiling brace



Fix each brace using 2no 3.75 x 75mm round wire galv nails at each connection

25 x 100mm Longitudinal brace at mid point of web.



25 x 100mm Diagonal anchor brace installed at each end of the web longitudinal brace & at max 6 metres. For a run of less than 3 trusses, use the Tee Brace Detail

Plasterboard (by others)

25 x 100mm Longitudinal ceiling brace

Section A-A



Truss Roof: Web Longitudinal Slenderness Brace

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Scale:
1:25

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Drawing No:
GTS RF 26

Rev:
A

SIPs gable wall to align with the inside of the gable ladder

Plasterboard (by others)

Roofing Underlay (by others)

97mm Deep Gable Ladder

SIPs gable wall

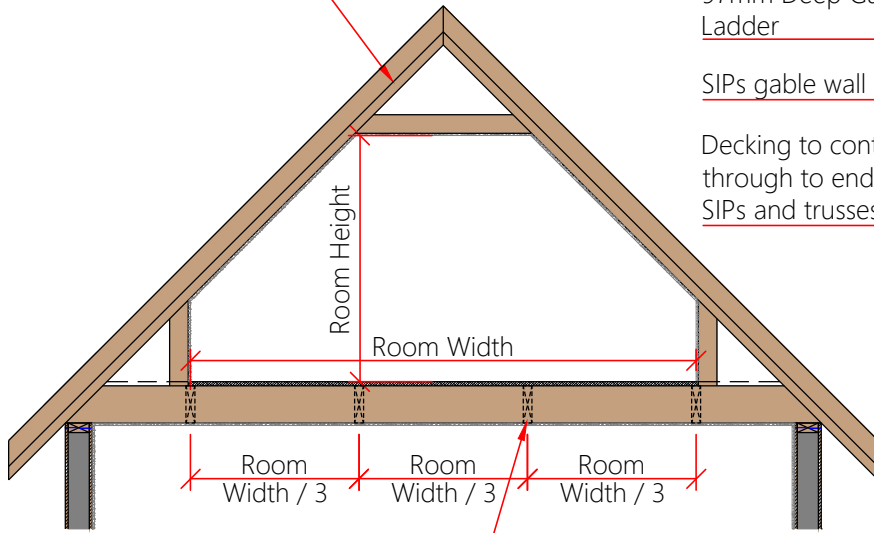
Decking to continue through to end gable to tie SIPs and trusses together

600 max.

Room Height

Section B-B

22mm Decking

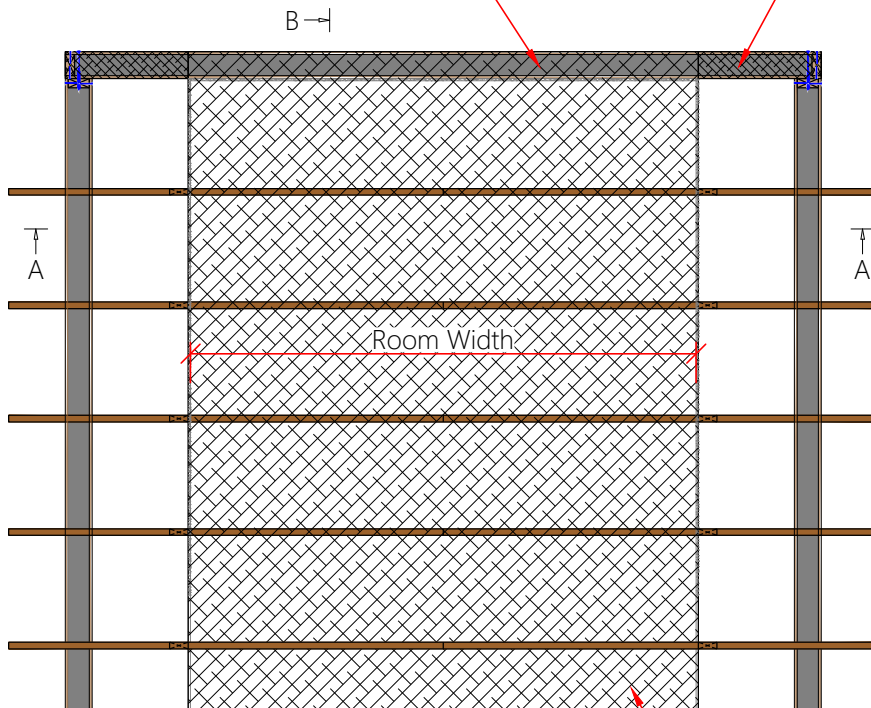


Blockings only required if Room Width exceeds 4m (max 2.4m centres)

Section A-A

Decking to continue through to end gable to tie SIPs and trusses together (unless specified otherwise by Glosford engineer)

Strips of 22mm decking (or similar) outside of room width to align SIPs



Plan View

Decked area of attic trusses



Truss Roof: Attic Truss Typical Decking Layout

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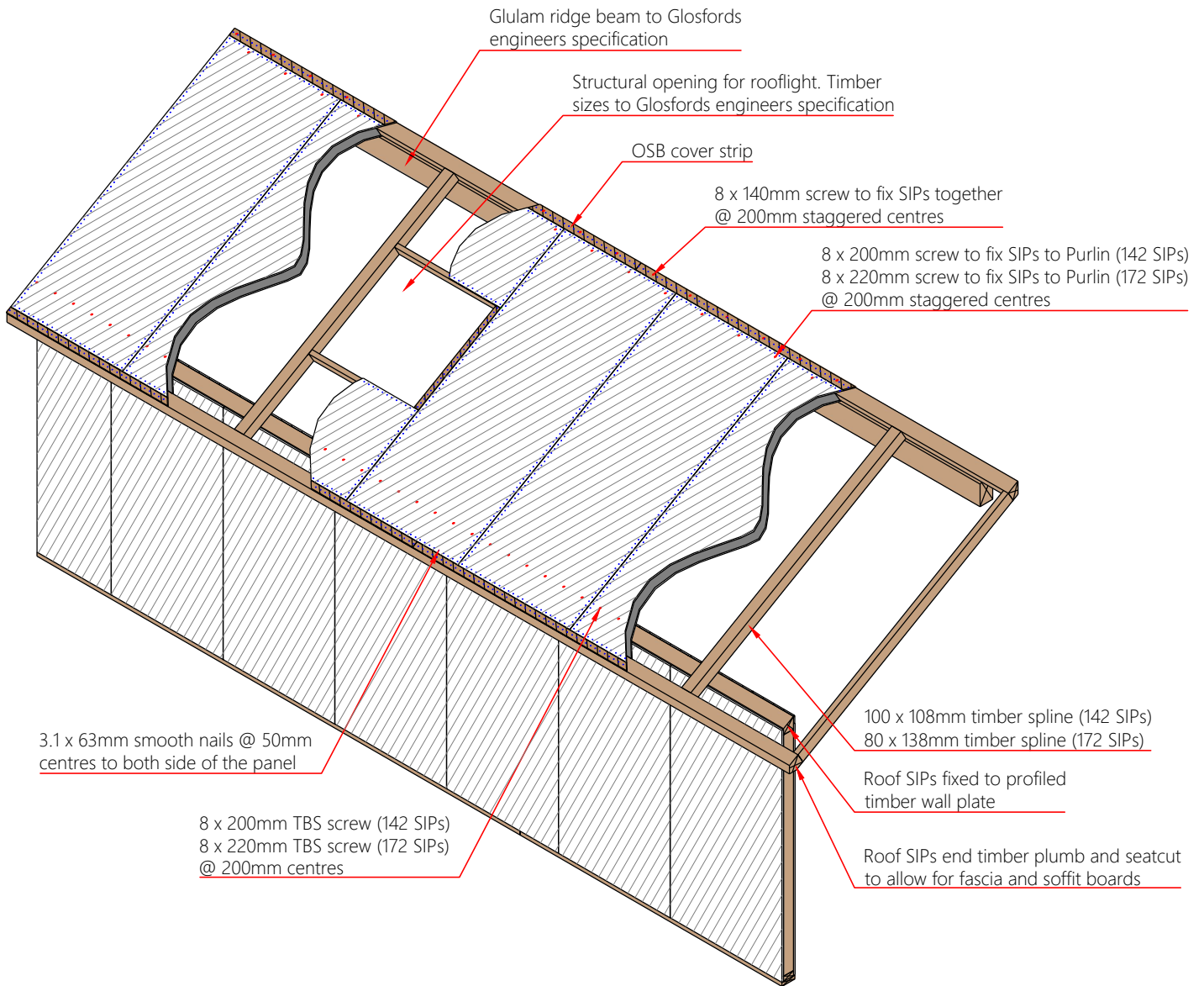
Scale:
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Drawing No:
GTS RF 27

Rev:
A



Isometric View of SIPs Roof Construction

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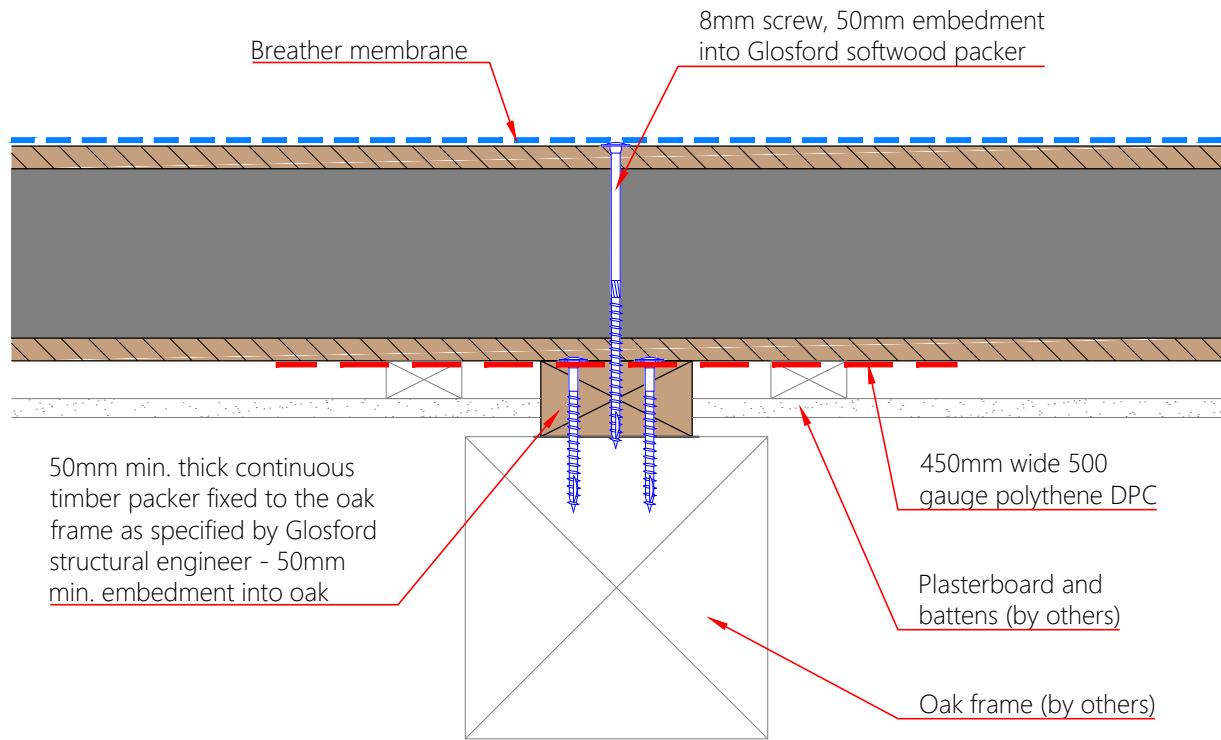
Scale: N.T.S.

Date: 04/12/2017


Drawn By: M.B.

Drawing No: GTS RF 28

Rev: A



Application	Fastener Type	Spacing
Fixing timber packer to others oak frame	Rothoblaas TBS evo+ 6mm Ø SIP screws 50mm min. embedment into oak	Typically at 200mm staggered c/c, unless engineer specifies otherwise
Fixing Kingspan TEK Building System to timber packer	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment into packer only	400mm c/c to walls and 300mm c/c to roofs, unless engineer specifies otherwise

	<h2>Oak Post Detail</h2>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:5	Date: 07/02/2022	Drawn By: M.B.	Drawing No: GTS OF 01

8mm screw, 50mm embedment into Glosford softwood packer

8 x 200mm screw for 142mm SIPs
8 x 220mm screw for 172mm SIPs

Breather membrane

Silicone bead

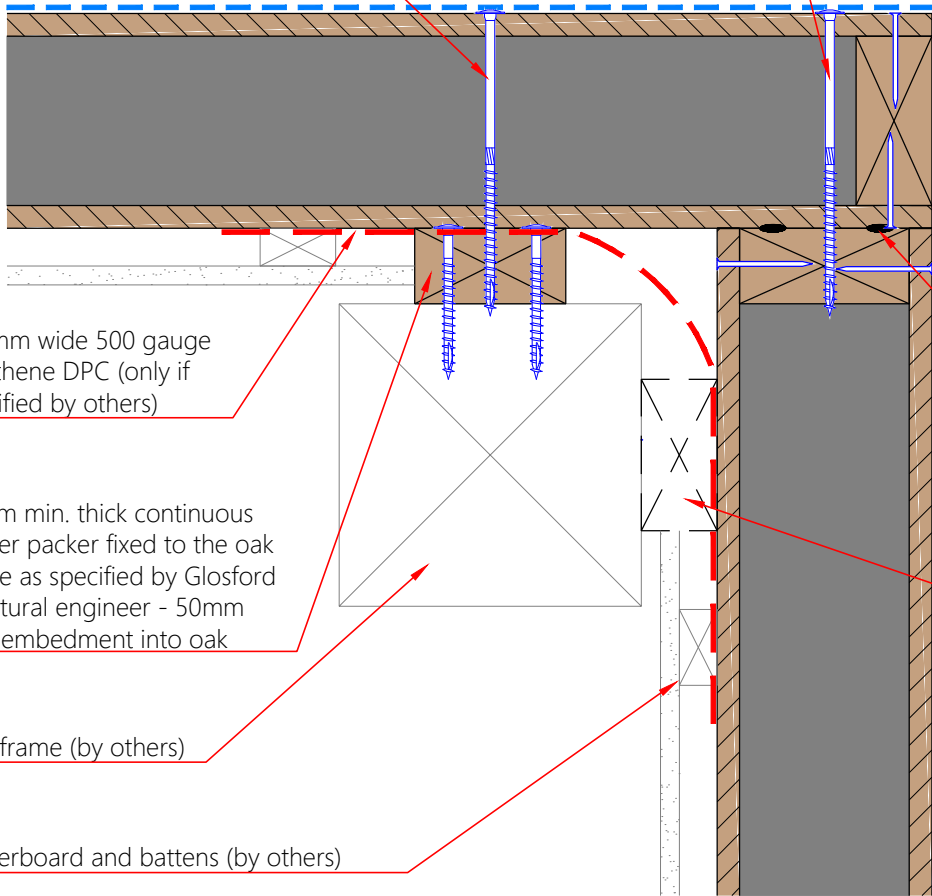
Alternative packer location (packer needed to one face of oak post only)

600mm wide 500 gauge polythene DPC (only if specified by others)

50mm min. thick continuous timber packer fixed to the oak frame as specified by Glosford structural engineer - 50mm min. embedment into oak

Oak frame (by others)

Plasterboard and battens (by others)



Application	Fastener Type	Spacing
Fixing timber packer to others oak frame	Rothoblaas TBS evo+ 6mm Ø SIP screws 50mm min. embedment into oak	Typically at 200mm staggered c/c, unless engineer specifies otherwise
Fixing Kingspan TEK Building System to timber packer	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment into packer only	400mm c/c to walls and 300mm c/c to roofs, unless engineer specifies otherwise
Fixing Kingspan TEK Building System wall panels at corner joints	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 400mm c/c, unless engineer specifies otherwise
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels



Oak Corner Detail

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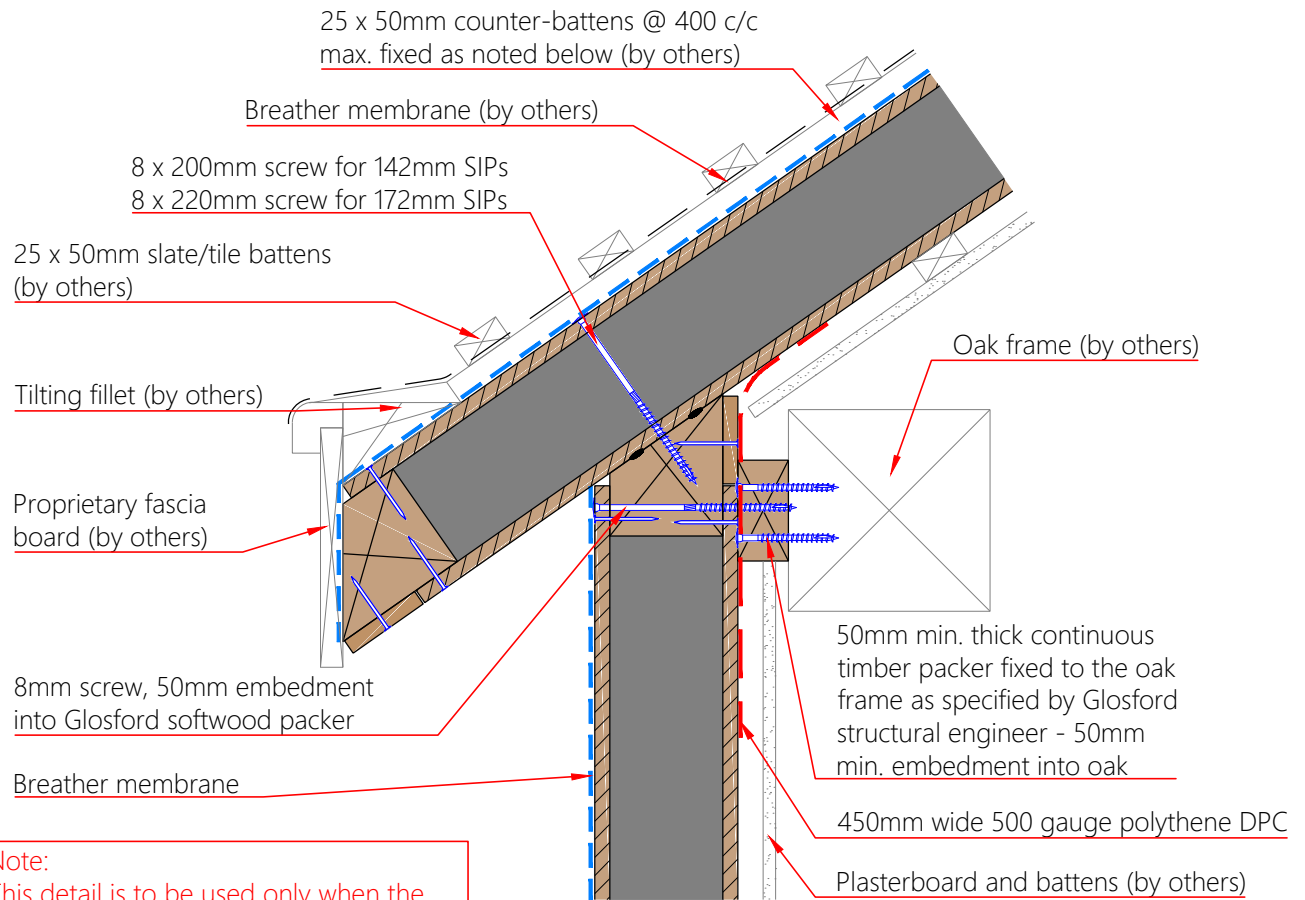
Scale:
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Date:
07/02/2022

Drawn By:
M.B.

Drawing No:
GTS OF 02

Rev:
B



Note:
This detail is to be used only when the SIP wall is insufficiently secured to the vertical oak frame posts (e.g. where there is an excessive distance between posts)

Application	Fastener Type	Spacing
Fixing timber packer to others oak frame	Rothoblaas TBS evo+ 6mm Ø SIP screws 50mm min. embedment into oak	Typically at 200mm staggered c/c, unless engineer specifies otherwise
Fixing treated timber counter battens to Kingspan TEK Building System wall/roof panels for ventilation	ABC Spax 5mm x 60mm or EJOT M5 70mm stainless steel screws or equivalent (to penetrate through 15mm OSB/3 face)	Typically 300mm centres. For further guidance follow project structural engineers' recommendations
Fixing Kingspan TEK Building System to timber packer	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment into packer only	400mm c/c to walls and 300mm c/c to roofs, unless engineer specifies otherwise
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels



Oak Eaves Detail

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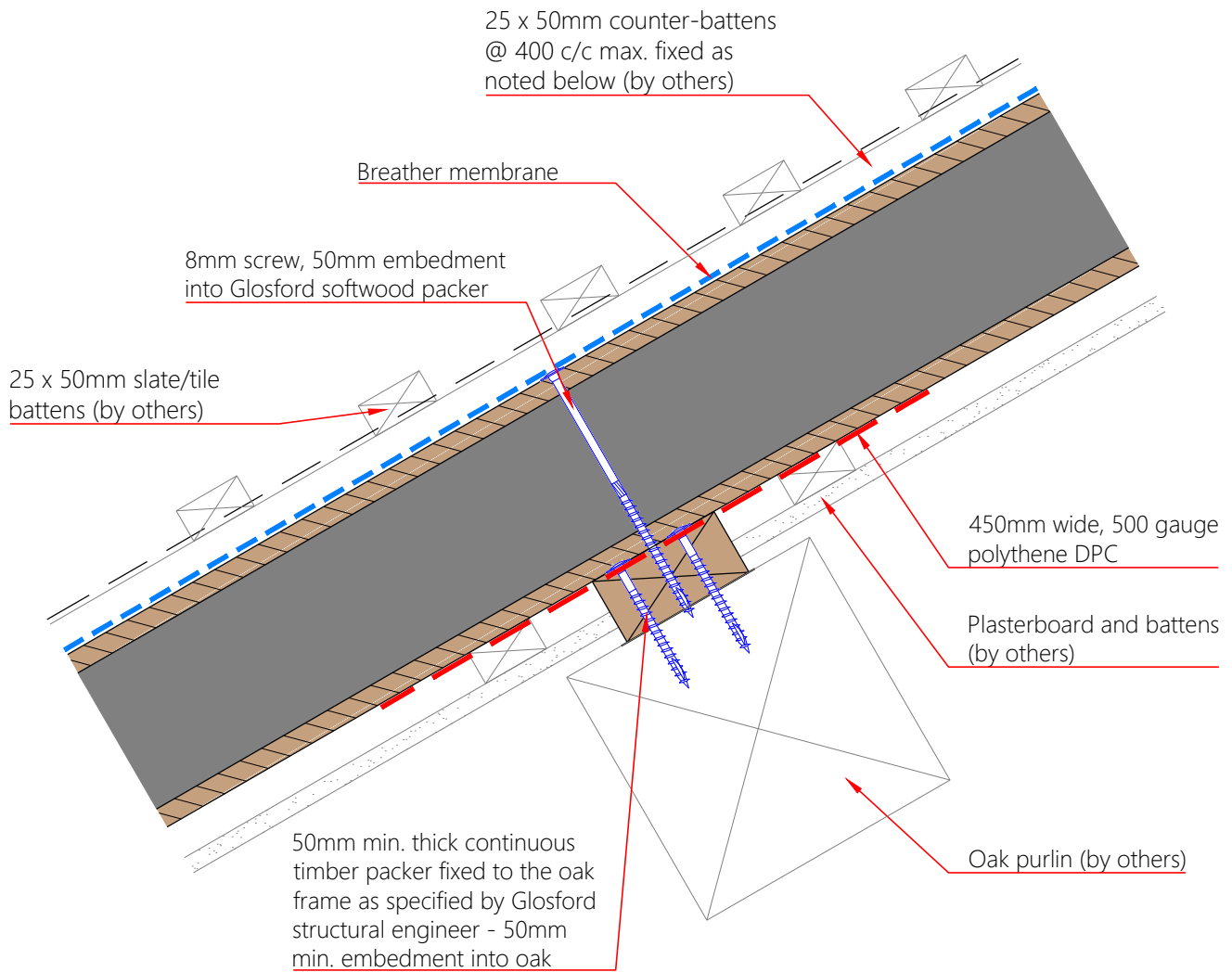
Scale:
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Date:
07/02/2022

Drawn By:
M.B.

Drawing No:
GTS OF 03

Rev:
B



Application	Fastener Type	Spacing
Fixing timber packer to others oak frame	Rothoblaas TBS evo+ 6mm Ø SIP screws 50mm min. embedment into oak	Typically at 200mm staggered c/c, unless engineer specifies otherwise
Fixing Kingspan TEK Building System to timber packer	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment into packer only	400mm c/c to walls and 300mm c/c to roofs, unless engineer specifies otherwise
Fixing Kingspan TEK Building System roof sections at wall/floor junctions, ridge beams, intermediate purlins, eaves and gable walls	Rothoblaas TBS 8mm Ø SIP screws or similar, 50mm embedment	Typically at 200mm c/c, unless engineer specifies otherwise
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels



Oak Purlin Detail

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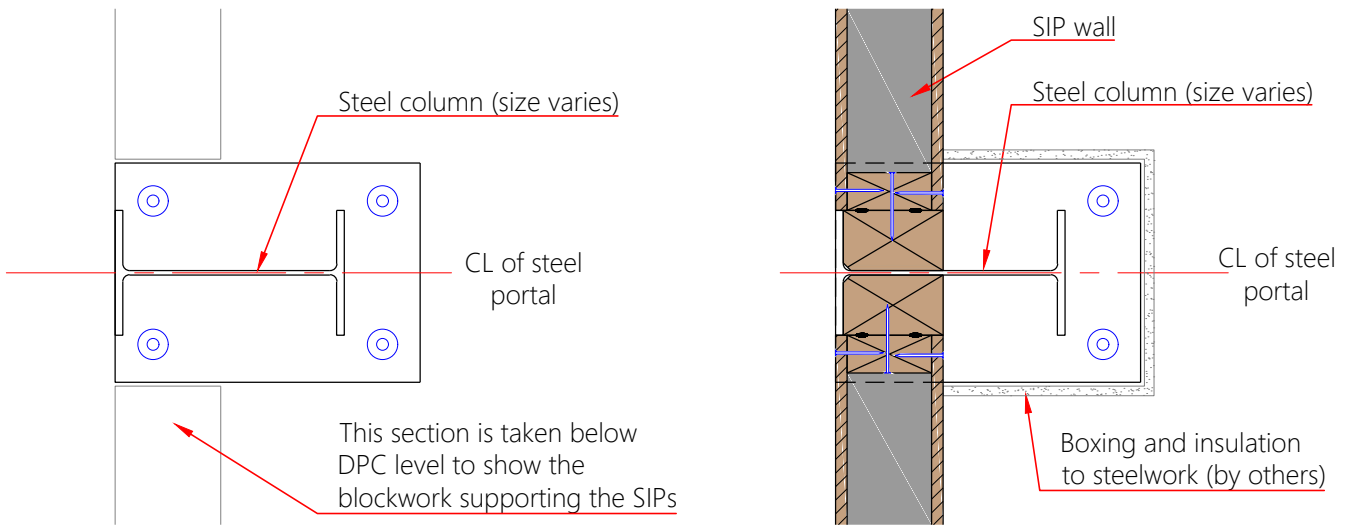
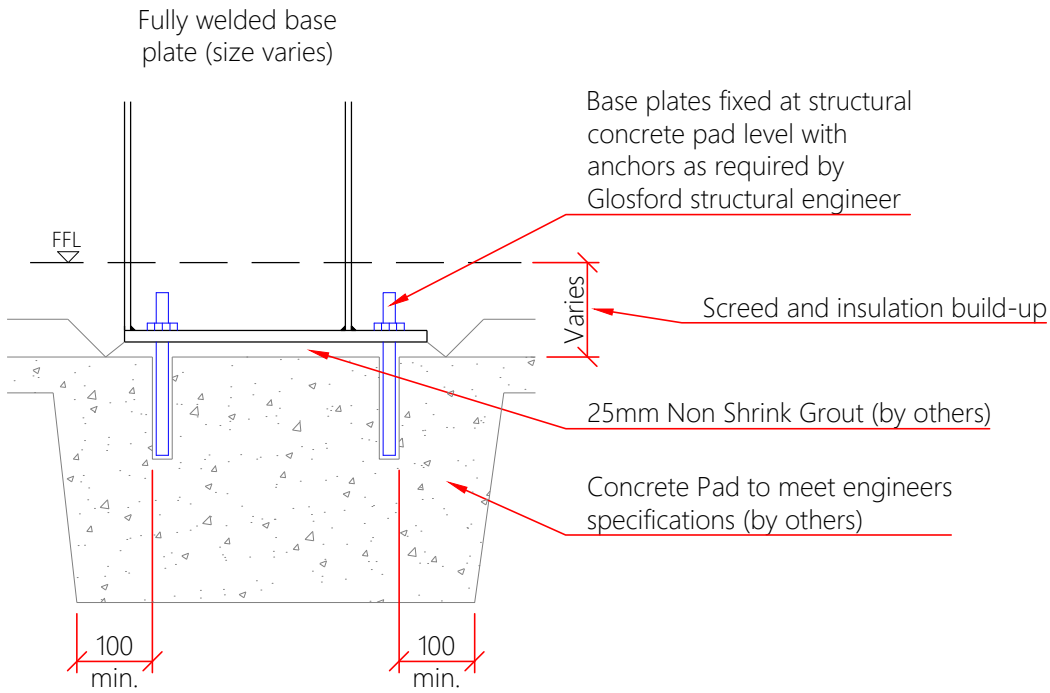
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Date:
07/02/2022

Drawn By:
M.B.

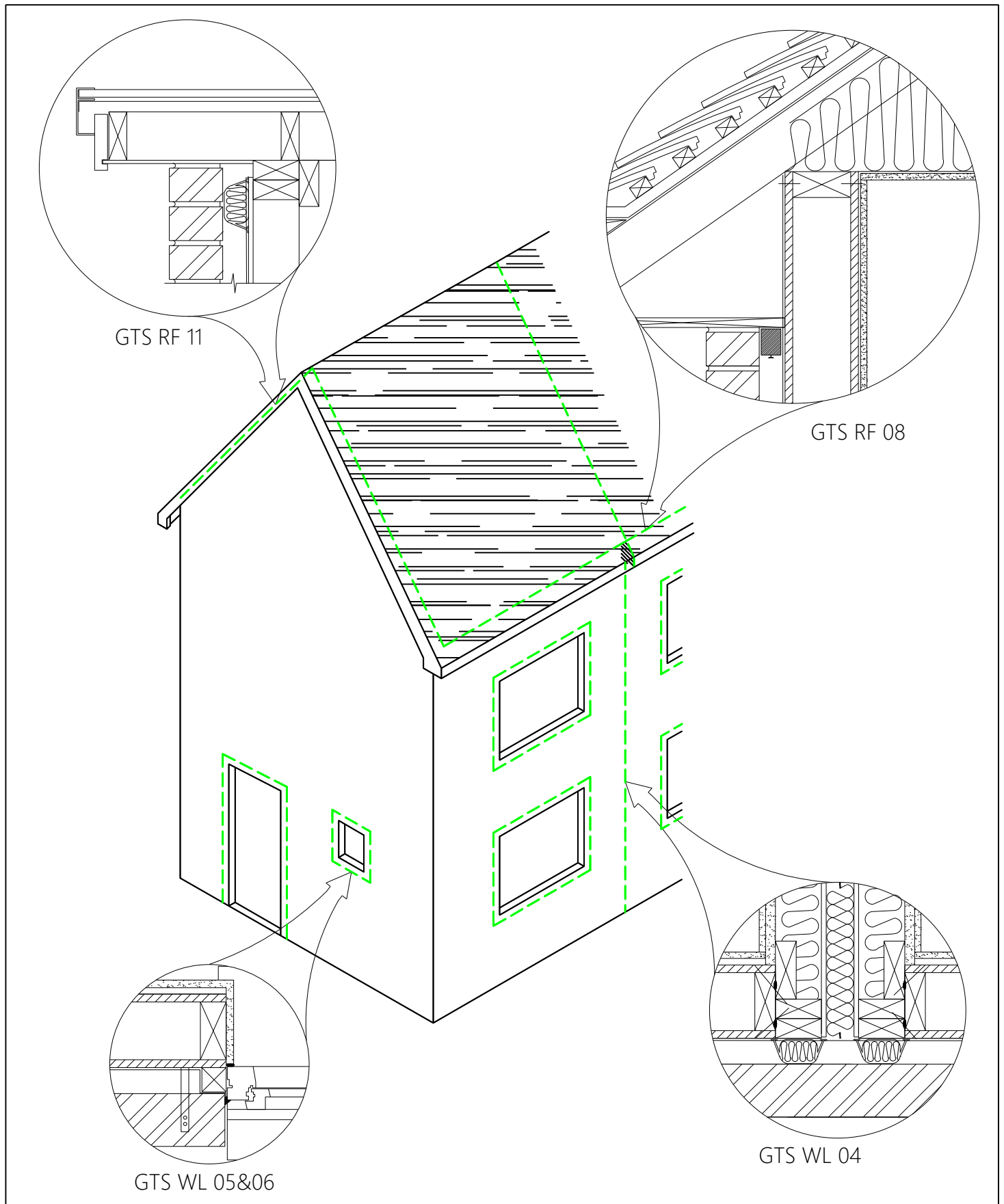
Drawing No:
GTS OF 04

Rev:
B



Application	Fastener Type	Spacing
Fixing bottomplates, headplates, end timbers and edge timbers into Kingspan TEK Building System panels	3.1mm x 63mm galvanized ring-shank nails	50mm centres both sides of the panels

	<h1>Typical Steel Baseplate Detail</h1>		<p>Glosford Timber Solutions Holmer Road Hereford HR4 9BP 01432 842999 www.glosfordsips.co.uk</p>	
	Scale: 1:10	Date: 04/12/2017	Drawn By: M.B.	Drawing No: GTS SC 01



Cavity Barriers for Party Houses

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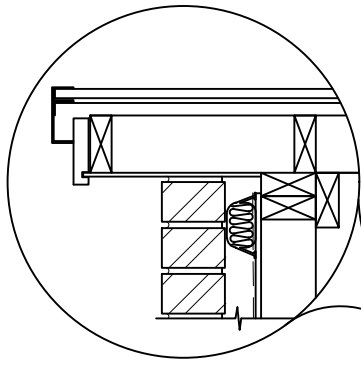
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Date:
04/12/2017

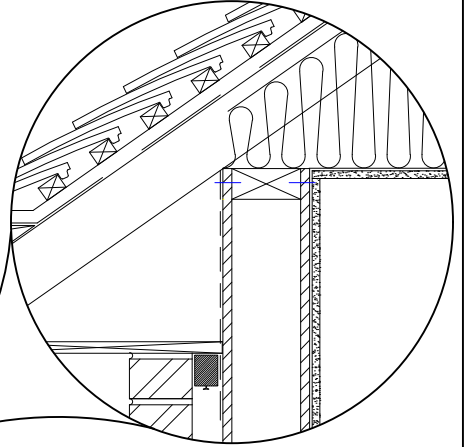
Drawn By:
M.B.

Drawing No:
GTS CB 01

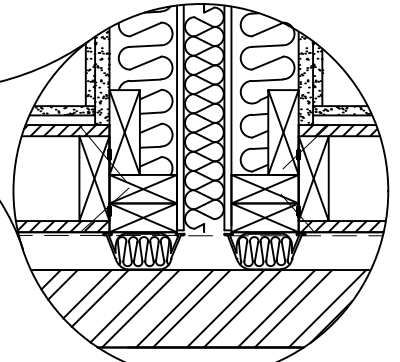
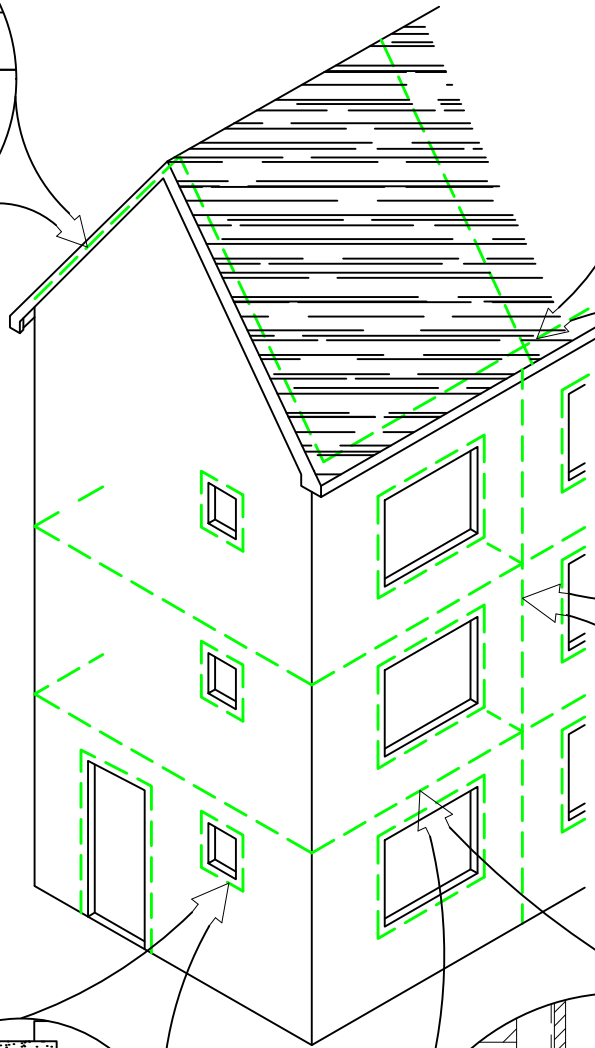
Rev:
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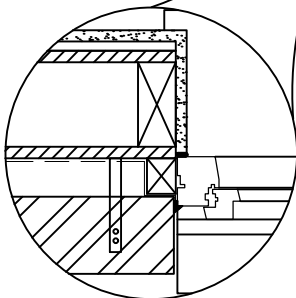
GTS RF 11



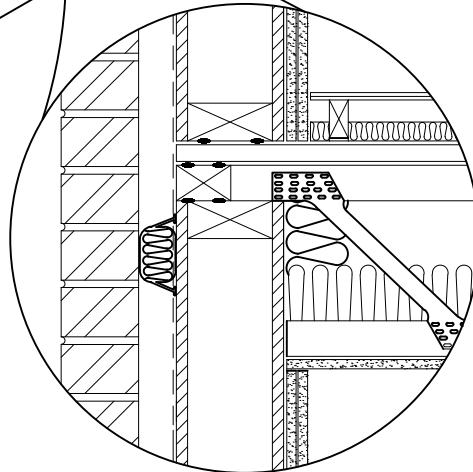
GTS RF 08



GTS WL 04



GTS WL 05&06



GTS FL 01



Cavity Barriers for Flats

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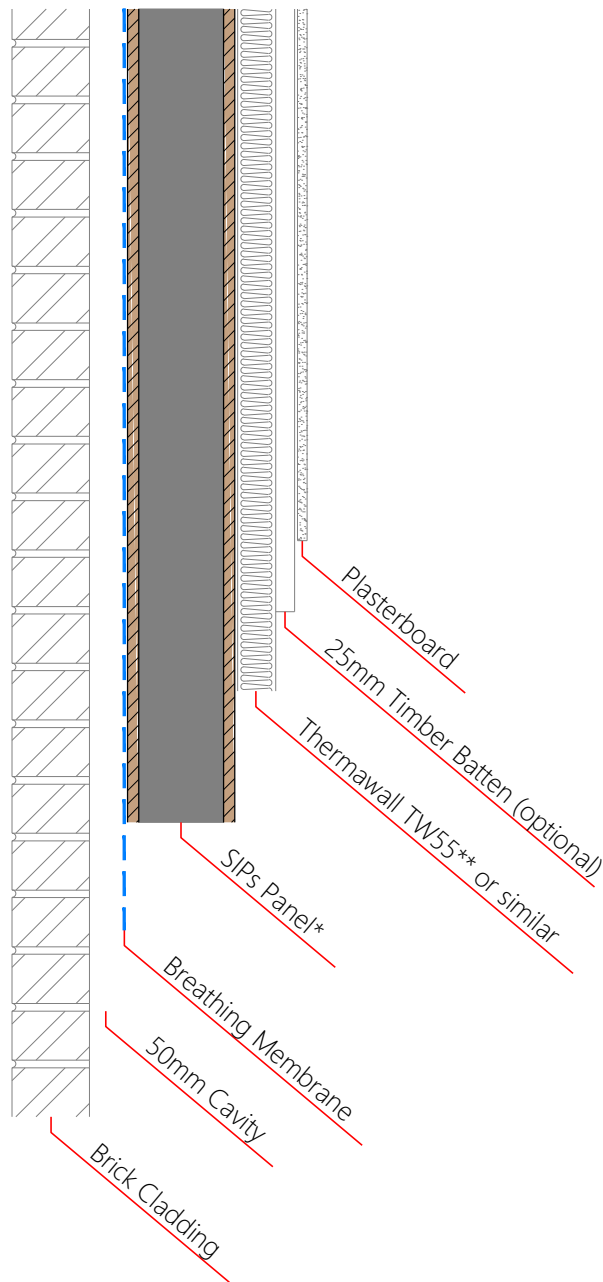
Scale:
N.T.S.

Date:
04/12/2017

Drawn By:
M.B.

Drawing No:
GTS CB 02

Rev:
A



* SIPs	142mm	172mm
** Thermawall		
None	0.19 W/m ² K	0.16 W/m ² K
20 mm	0.15 W/m ² K	0.13 W/m ² K
25 mm	0.15 W/m ² K	0.13 W/m ² K
30 mm	0.14 W/m ² K	0.12 W/m ² K
40 mm	0.13 W/m ² K	0.12 W/m ² K
50 mm	0.13 W/m ² K	0.11 W/m ² K
60 mm	0.12 W/m ² K	0.11 W/m ² K
70 mm	0.11 W/m ² K	0.10 W/m ² K
75 mm	0.11 W/m ² K	--
80 mm	0.11 W/m ² K	--
90 mm	0.10 W/m ² K	--
100 mm	0.10 W/m ² K	--

Values calculated with brickwork cladding and standard breathing membrane

Values calculated at www.uvalue-calculator.co.uk



Brick Cladding Detail: U-Value Options

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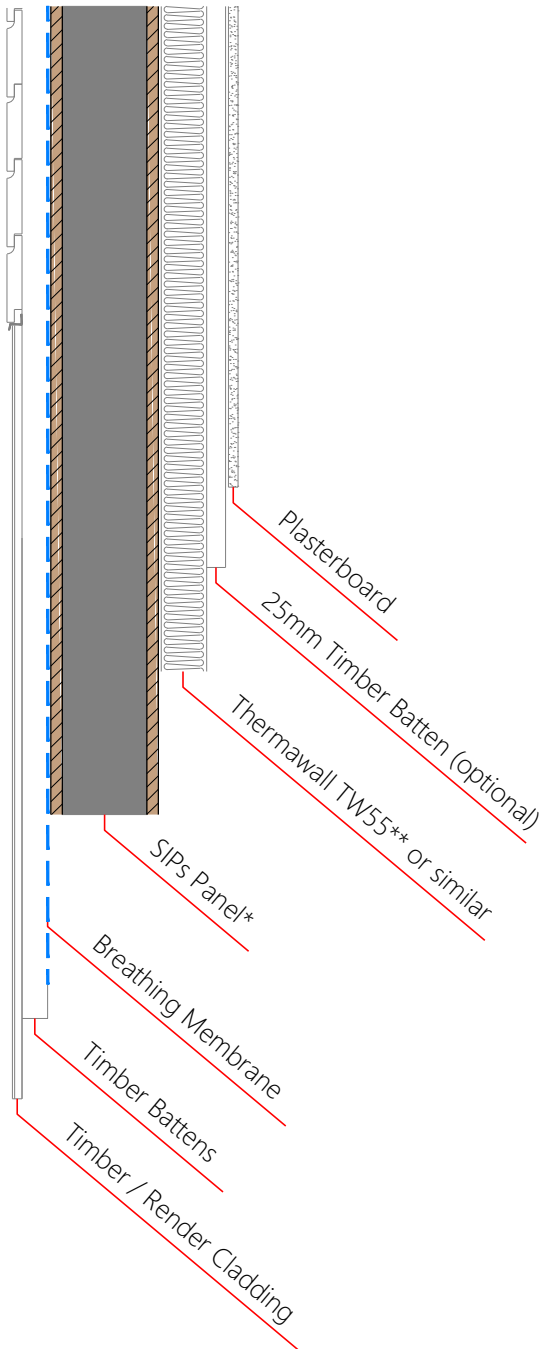
Scale:
N.T.S.

Date:
16/04/2019

Drawn By:
M.B.

Drawing No:
GTS UV 01

Rev:
B



* SIPs	142mm	172mm
** Thermawall		
None	0.20 w/m ² K	0.17 w/m ² K
20 mm	0.16 w/m ² K	0.14 w/m ² K
25 mm	0.15 w/m ² K	0.13 w/m ² K
30 mm	0.15 w/m ² K	0.13 w/m ² K
40 mm	0.14 w/m ² K	0.12 w/m ² K
50 mm	0.13 w/m ² K	0.11 w/m ² K
60 mm	0.12 w/m ² K	0.11 w/m ² K
70 mm	0.11 w/m ² K	0.10 w/m ² K
75 mm	0.11 w/m ² K	--
80 mm	0.11 w/m ² K	--
90 mm	0.11 w/m ² K	--
100 mm	0.10 w/m ² K	--

Values calculated with brickwork cladding and standard breathing membrane

Values calculated at www.uvalue-calculator.co.uk



Timber/Render Cladding Detail: U-Value Options

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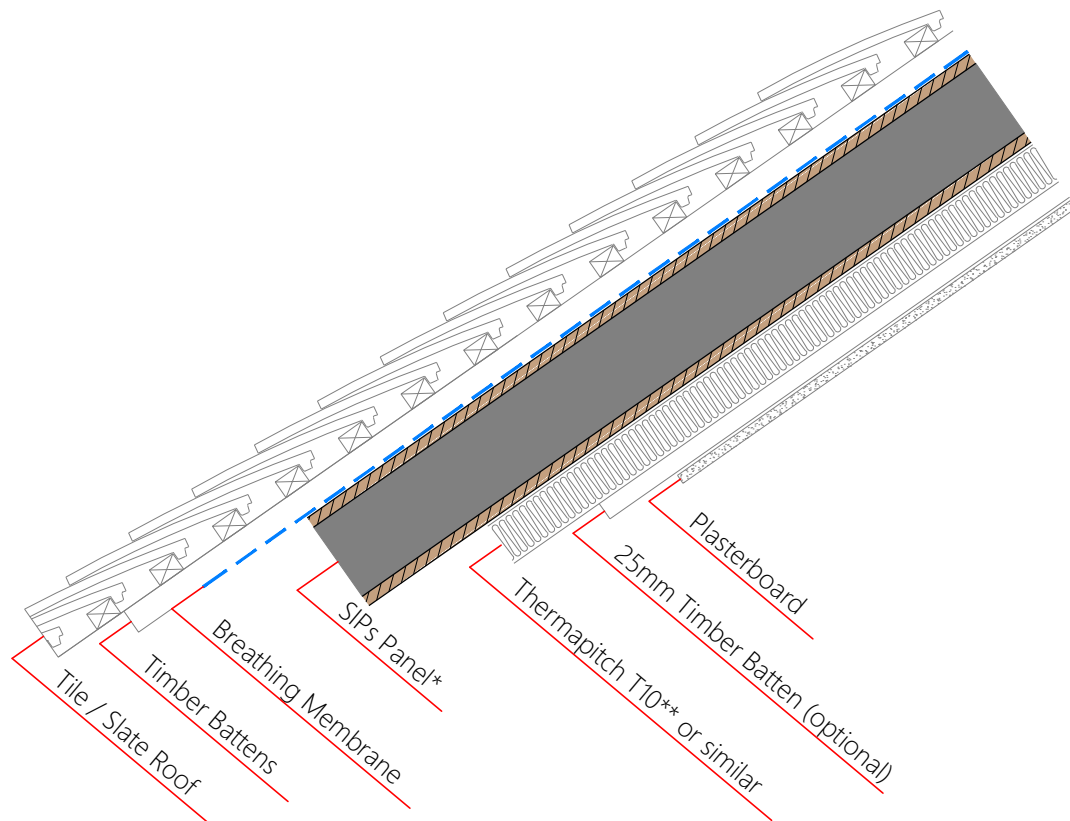
Scale:
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Date:
16/04/2019

Drawn By:
M.B.

Drawing No:
GTS UV 02

Rev:
B



* SIPs	142mm	172mm
** Thermapitch		
None	0.19 W/m ² K	0.16 W/m ² K
20 mm	0.16 W/m ² K	0.13 W/m ² K
25 mm	0.15 W/m ² K	0.13 W/m ² K
30 mm	0.15 W/m ² K	0.12 W/m ² K
40 mm	0.14 W/m ² K	0.12 W/m ² K
50 mm	0.13 W/m ² K	0.11 W/m ² K
60 mm	0.12 W/m ² K	0.11 W/m ² K
70 mm	0.12 W/m ² K	0.10 W/m ² K
75 mm	0.11 W/m ² K	--
80 mm	0.11 W/m ² K	--
90 mm	0.10 W/m ² K	--
100 mm	0.10 W/m ² K	--

Values calculated with tiles or slates and standard breathing membrane

Values calculated at www.uvalue-calculator.co.uk



SIPs Roof Detail: U-Value Options

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Scale:
N.T.S.

Date:
16/04/2019

Drawn By:
M.B.

Drawing No:
GTS UV 03

Rev:
B