

TIMBER FRAME STANDARD DETAILS SEPTEMBER 09



WORKING IN PARTNERSHIP WITH



TARGET TIMBER SYSTEMS LTD

Details on Plan

1. External Wall
 - 1.1. External corner
 - 1.2. Re-entrant corner
 - 1.3. Separating wall junctions
 - 1.4. Non loadbearing wall junctions
 - 1.5. Window/Door Jambs
 - 1.6. Masonry Cladding
 - 1.7. Tile hanging off timber frame
 - 1.8. Timber boarding on timber frame
 - 1.9. Render on timber frame
2. Internal Walls
 - 2.1. Internal wall to internal wall junctions
3. Roofs
 - 3.1. Access hatch
 - 3.2. Tank stand and walkway
 - 3.3. Trusses:
 - 3.3.1. Standard truss
 - 3.3.2. Raised tie truss
 - 3.3.3. Attic truss
 - 3.4. Bracing – Diagonal and longitudinal
 - 3.4.1. Bracing 3D
 - 3.5.
 - 3.5.1. Verge Details
 - 3.5.2. Truss parallel to separating wall
 - 3.5.3. Truss perpendicular to separating wall
 - 3.5.4. Truss at right angles to each other at separating wall
 - 3.6. Purlins Connections
 - 3.7. Rafters
 - 3.7.1 Rafters on floor deck
 - 3.7.2 Rafters on dwarf wall
 - 3.8. Roof panels
 - 3.8.1 Roof panel connections
 - 3.9. Flat roof – Joist and decking
 - 3.10. Dormer in Section
 - 3.11. Dormer in Perspective view
 - 3.12. Parapet detail – joists perpendicular
 - 3.13. Parapet detail – joists parallel

Details in Section

4. External Walls
 - 4.1. Ground Floor
 - 4.2. Intermediate floor – Joist parallel
 - 4.3. Intermediate floor – Joist perpendicular
 - 4.4. Compartment floor – I Joist parallel
 - 4.5. Compartment floor – I Joist perpendicular
 - 4.6. Top floor ceiling at eaves

- 4.7. Eaves at window head
- 4.8. Window Cill
- 4.9. Joinery head
- 4.10. Door threshold
- 4.11. Intermediate Floor – Open Web Joist Parallel
- 4.12. Intermediate Floor – Open Web Joist Perpendicular
- 4.13. Compartment Floor – Open Web Parallel
- 4.14. Compartment Floor – Open Web Perpendicular
- 4.15. Compartment Floor – Solid joist Parallel
- 4.16. Compartment Floor – Solid joist Perpendicular
- 4.17. Compartment Floor with Screed – Joist Perpendicular
- 4.18. Compartment Floor with Screed – Joist Parallel
- 4.19. Compartment Floor with Screedboard – Joist Perpendicular
- 4.20. Compartment Floor with Screedboard – Joist Parallel

5. Internal Walls

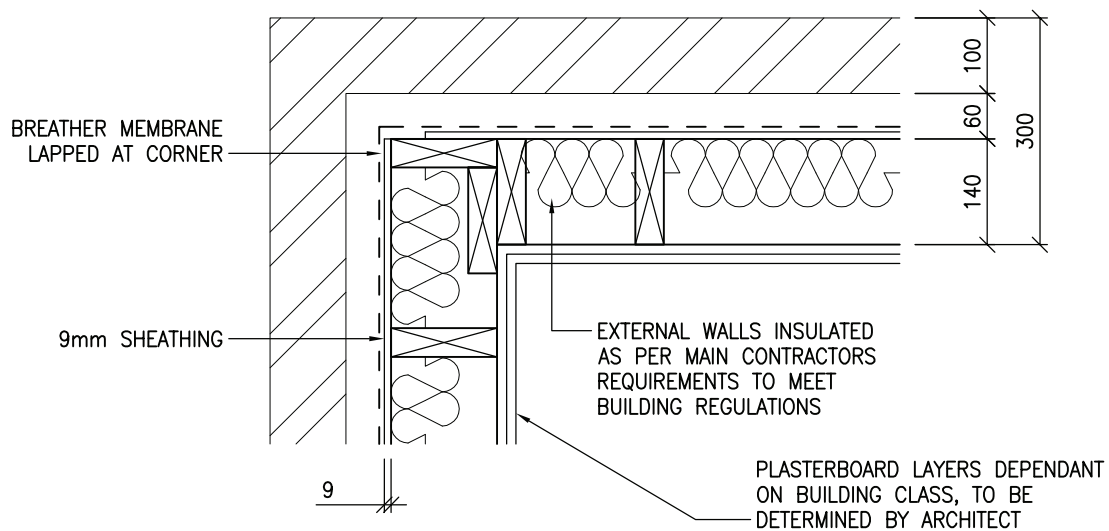
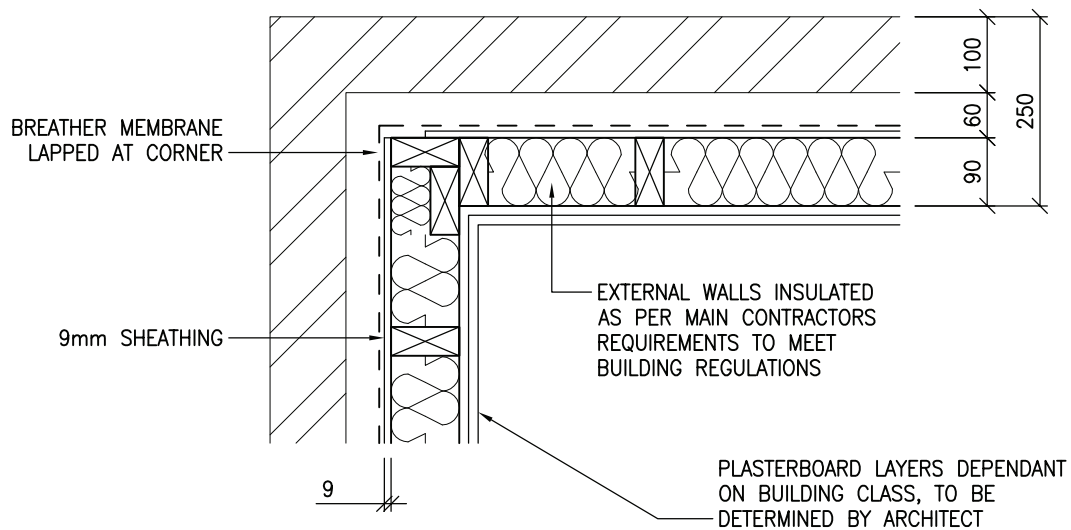
- 5.1. Ground floor - loadbearing partition
- 5.2. Ground floor – non loadbearing partition
- 5.3. Ground floor – Separating wall
- 5.4. Upper floor – loadbearing partition
- 5.5. Upper floor – Non loadbearing partition
- 5.6.
 - 5.6.1 Upper floor – Separating wall Compartment Floor I joist parallel
 - 5.6.2 Upper floor – Separating wall Compartment Floor I joist perpendicular
 - 5.6.3 Upper floor – Separating wall Intermediate Floor I joist parallel
 - 5.6.4 Upper floor – Separating wall Intermediate Floor I joist perpendicular
 - 5.6.5 Upper floor – Separating wall Intermediate Floor Open Web parallel
 - 5.6.6 Upper floor – Separating wall Intermediate Floor Open Web perpendicular
 - 5.6.7 Upper floor – Separating wall Compartment Floor Open Web parallel
 - 5.6.8 Upper floor – Separating wall Compartment Floor Open Web perpendicular
 - 5.6.9 Upper floor – Separating wall Compartment Floor Solid Joist parallel
 - 5.6.10 Upper floor – Separating wall Compartment Floor Solid Joist perpendicular
 - 5.6.11 Upper floor – Separating wall Compartment Floor with Screed joists parallel
 - 5.6.12 Upper floor – Separating wall Comp. Floor with Screed joists perpendicular
 - 5.6.13 Upper floor – Separating wall Comp. Floor with Screedboard joists parallel
 - 5.6.14 Upper floor – Separating wall C/Floor with Screedboard joists perpendicular
- 5.7. Ceiling

6. Door Linings

- 6.1. Internal Doors
- 6.2. External Doors
- 6.3. Party wall Entrance Doors

7. Services

- 7.1. Chimney – External
- 7.2. Chimney - Internal
- 7.3. Specific limitations of notching and drilling joists
- 7.4. Specific limitations of notching and drilling studs
- 7.5. Electrical sockets in separating walls – Shallow fitting
- 7.6. Electrical sockets in separating walls – Deep fitting



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DRAWING TITLE:
EXTERNAL CORNER

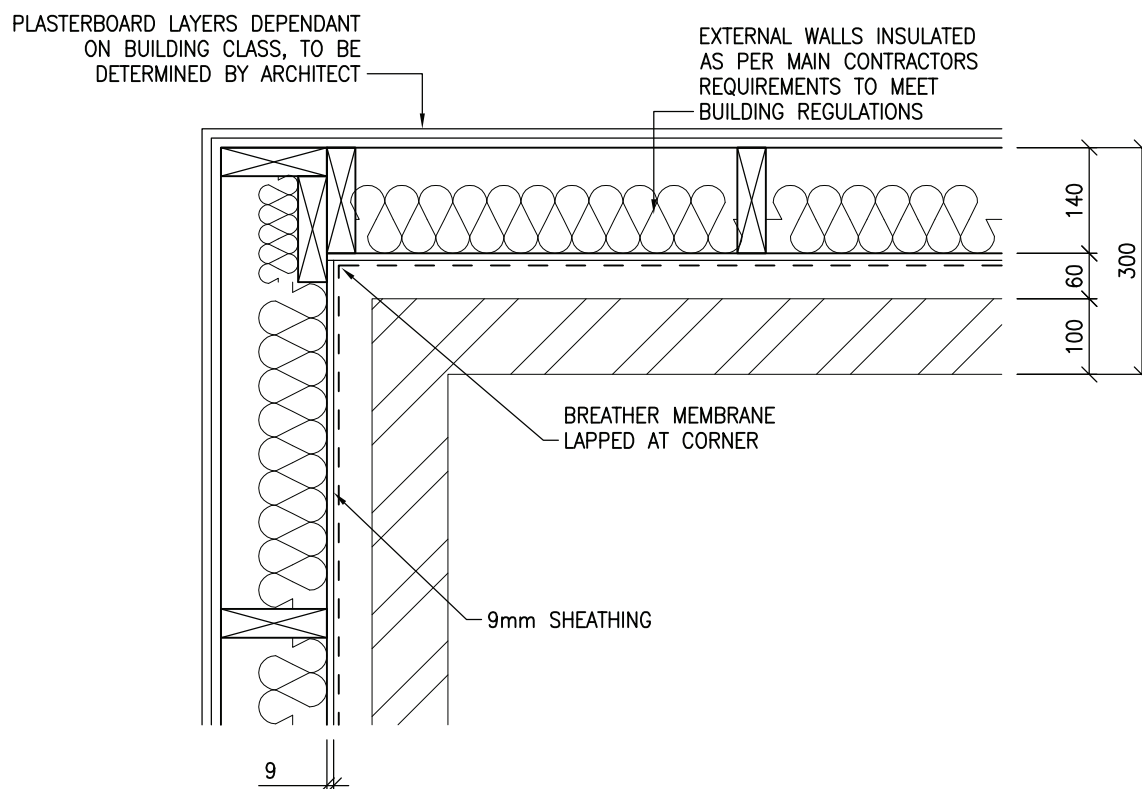
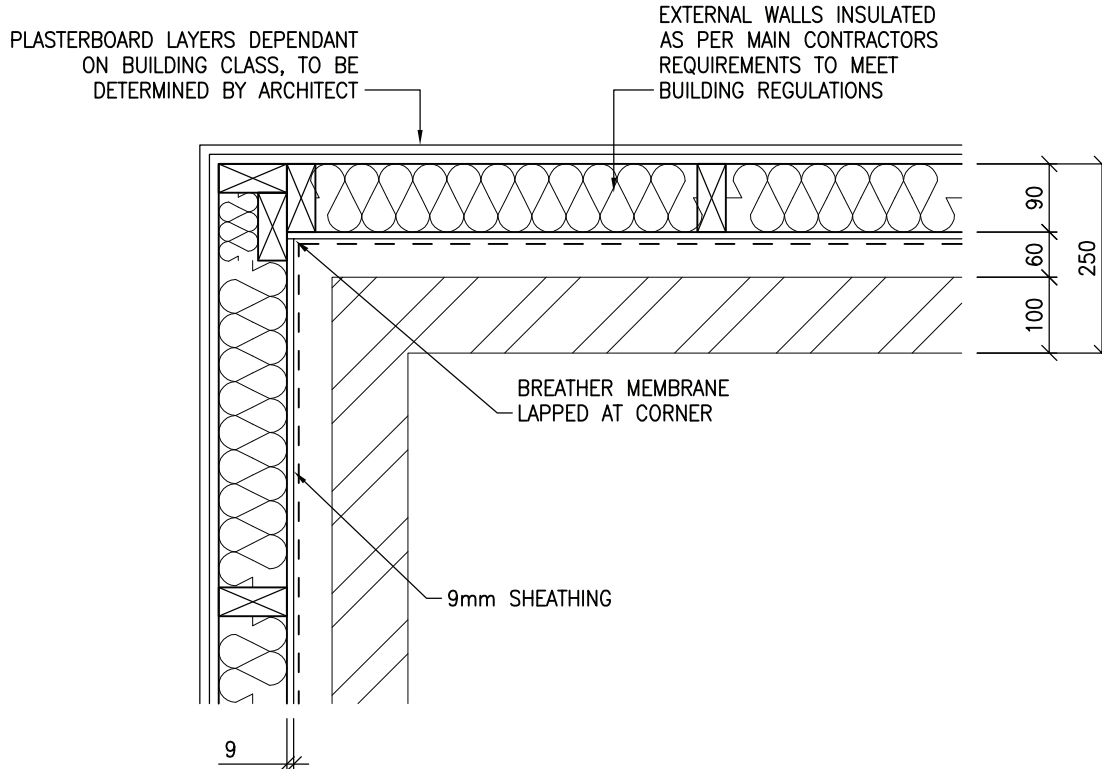
DRAWING No:
1.1

REVISION:
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SCALE:
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T.KNIGHT

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DRAWING TITLE:
RE-ENTRANT CORNER

DRAWING No:
1.2

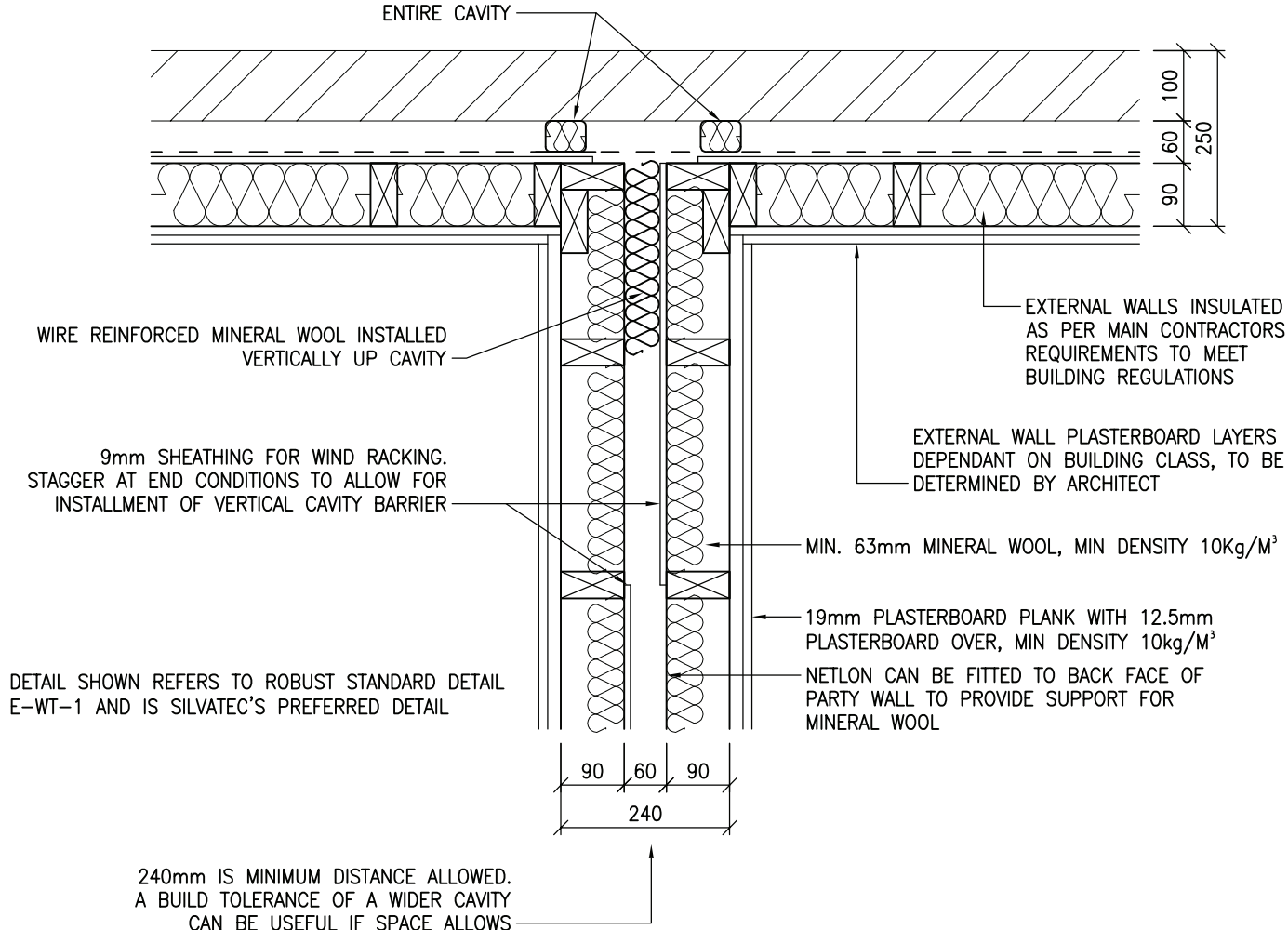
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WIRE REINFORCED MINERAL WOOL TO CLOSE
EXTERNAL CAVITY INSTALLED IN PROTECTIVE PLASTIC
SOCK FORM (ALSO REFERRED TO AS FIRESOCK).
CAN ALSO BE INSTALLED IN WIDER FORM FILLING
ENTIRE CAVITY



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DRAWING TITLE:

SEPARATING WALL JUNCTION

DRAWING No:

1.3

REVISION:

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SCALE:

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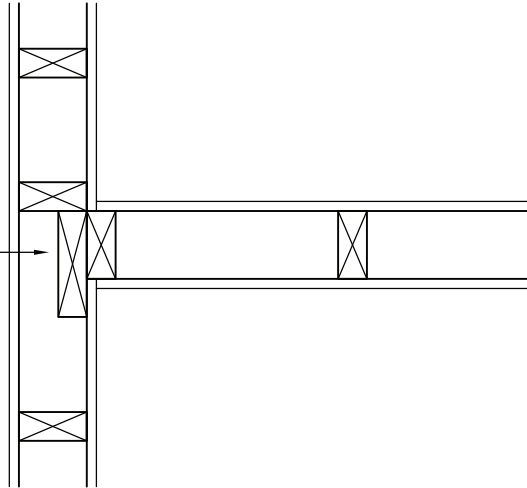
T.KNIGHT

DATE:

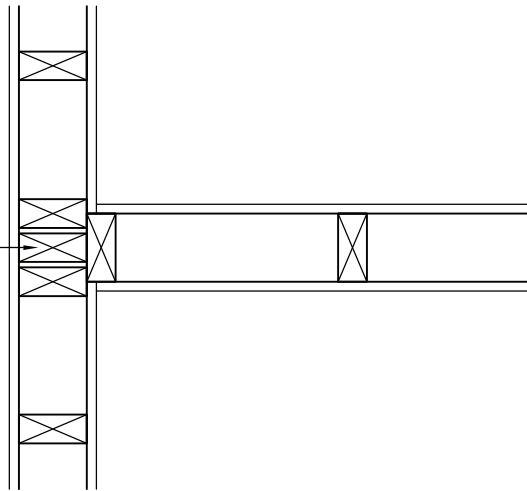
JAN 08

SILVATEC'S PREFERRED DETAIL

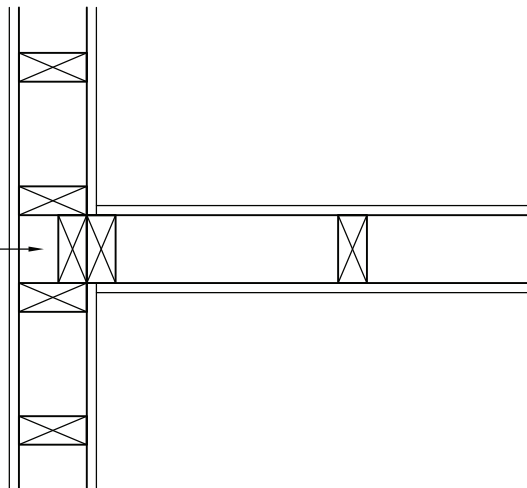
L STUD CONNECTOR
(140mm)



TRIPLE STUD CONNECTOR



C STUD CONNECTOR



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NLB WALL JUNCTIONS

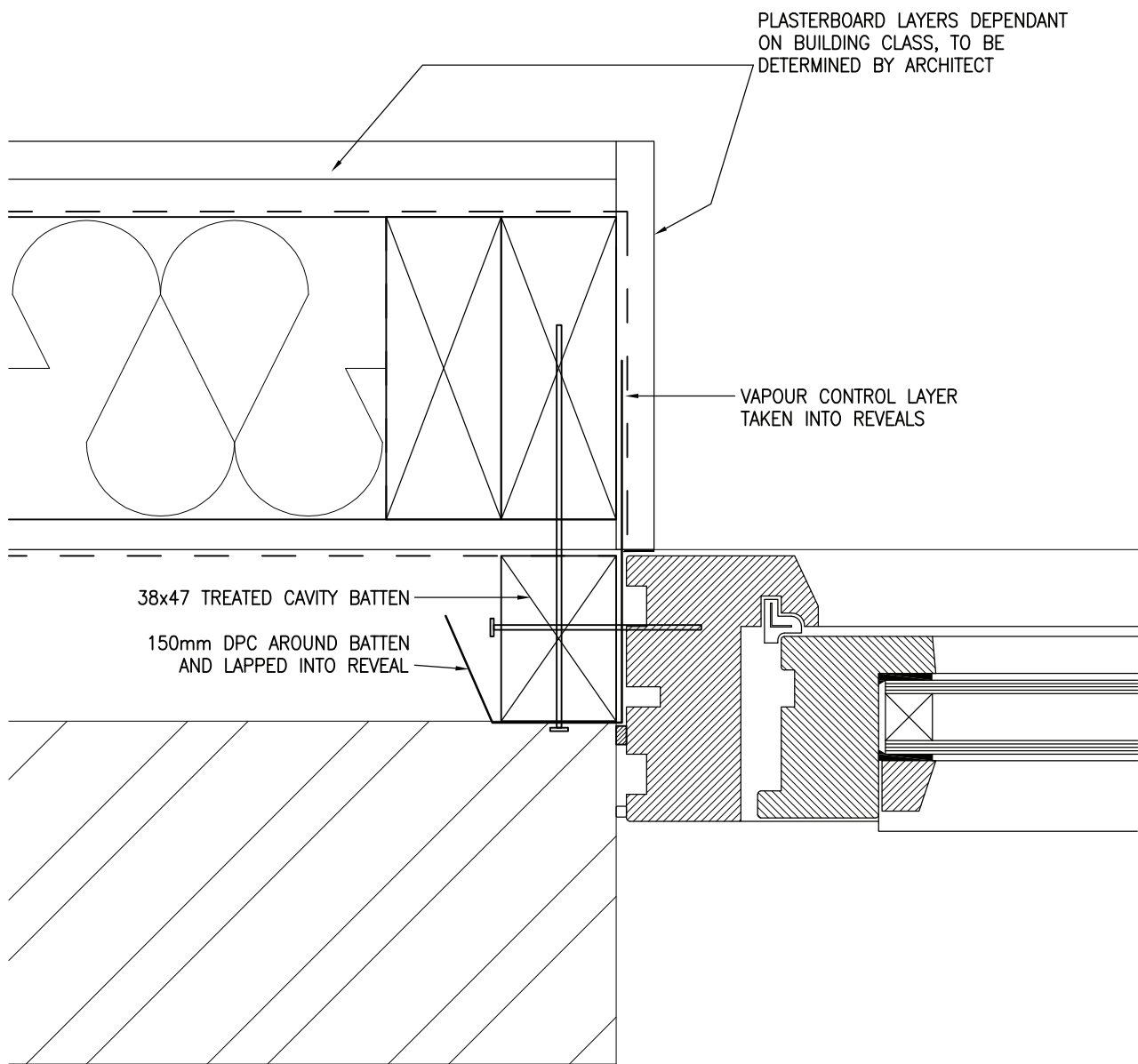
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REVISION:
-

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T.KNIGHT

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DRAWING TITLE:

WINDOW/DOOR JAMBS

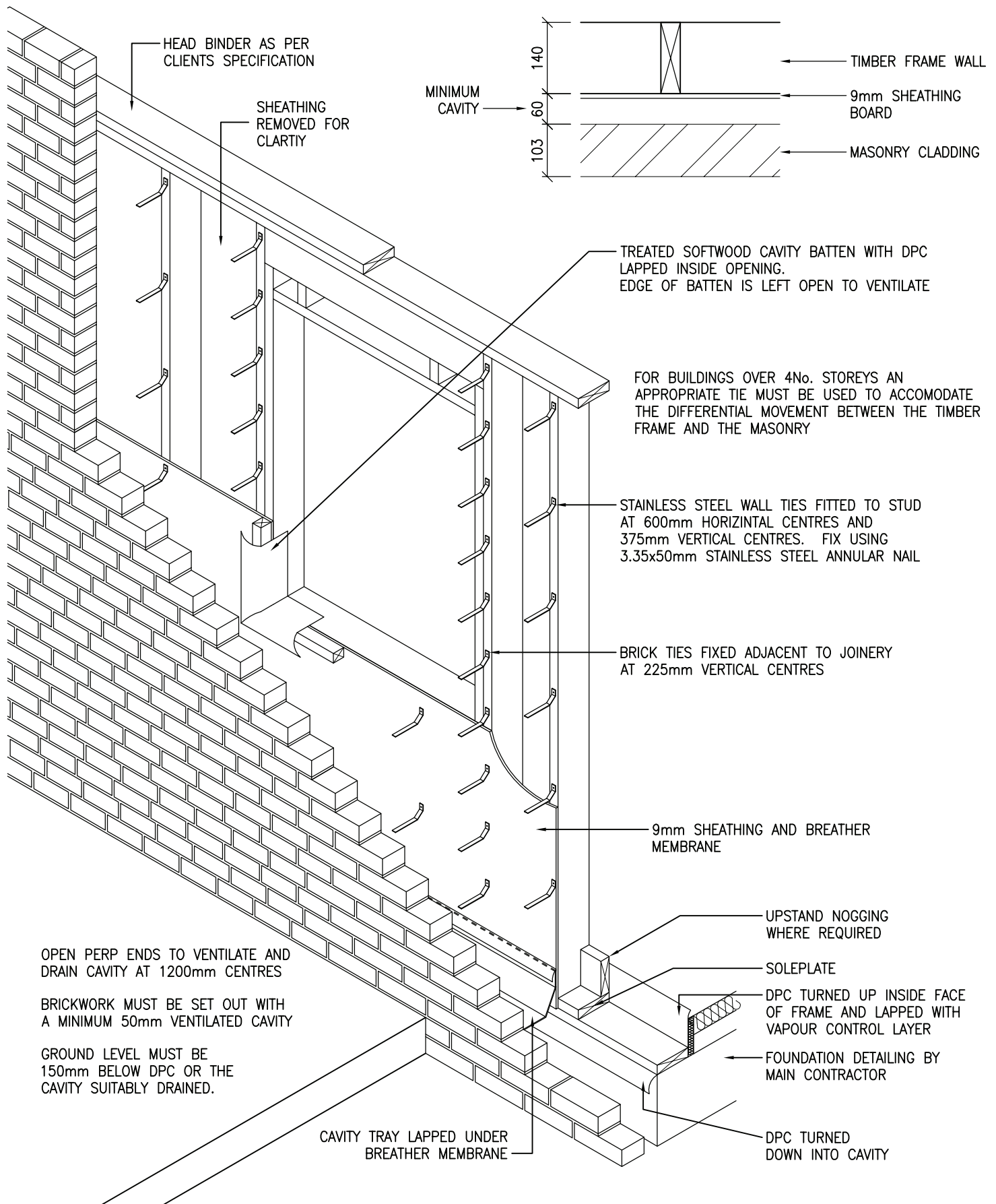
DRAWING No:
1.5

REVISION:
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1:5

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DRAWING TITLE:
MASONRY CLADDING

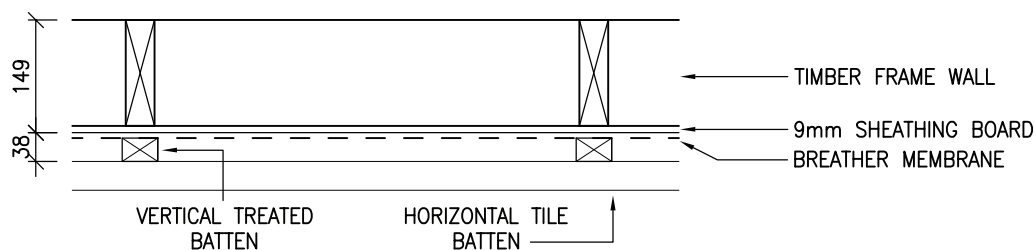
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REVISION:
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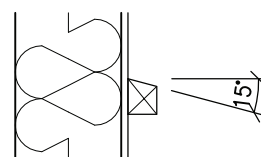
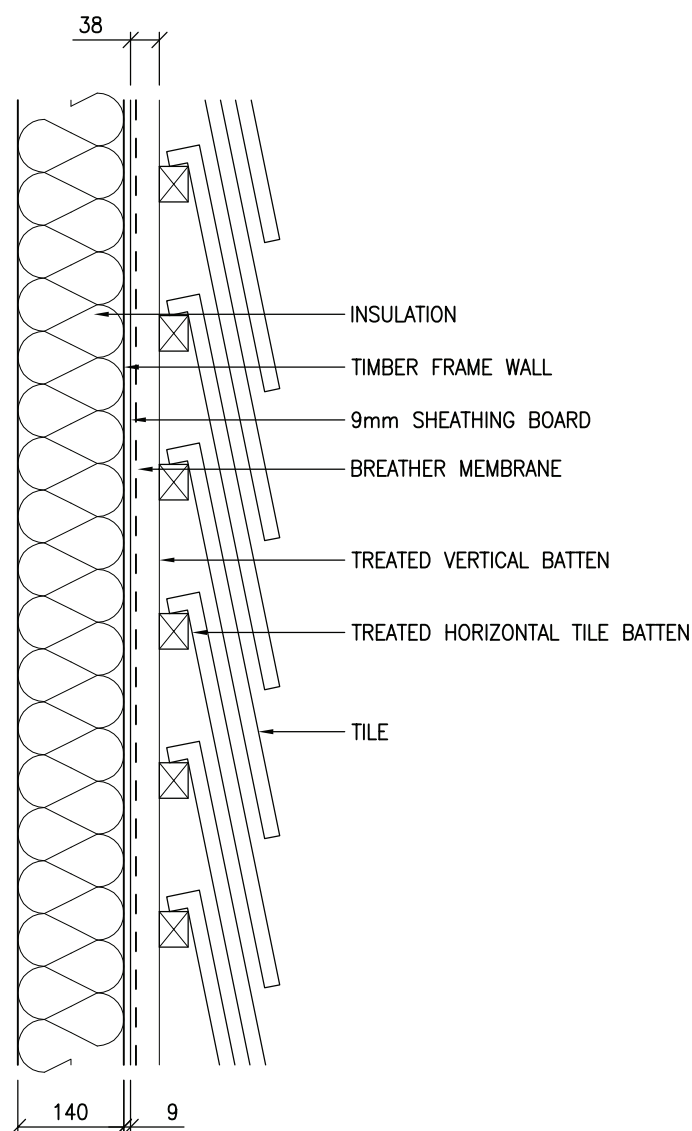
DATE:
JAN 08



WHEN USING LIGHTWEIGHT CLADDING ENSURE THAT INSULATION DETAIL WILL CONFORM TO PART L OF THE BUILDING REGULATIONS

ENSURE APPROPRIATE FIRE PROTECTION IS DETAILED WHEN THERE IS A PROPERTY WITHIN CLOSE PROXIMITY

DETAIL SHOWS FIRST BATTEN AGAINST THE TIMBER FRAME AS VERTICAL TO ALLOW FOR VENTILATION AND DRAINAGE OF CAVITY. IF A HORIZONTAL BATTEN IS USED AGAINST FRAME ENSURE TOP EDGE IS SLOPED TO MIN 15° TO REMOVE WATER FROM SHEATHING.



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DRAWING TITLE:
TILE HANGING

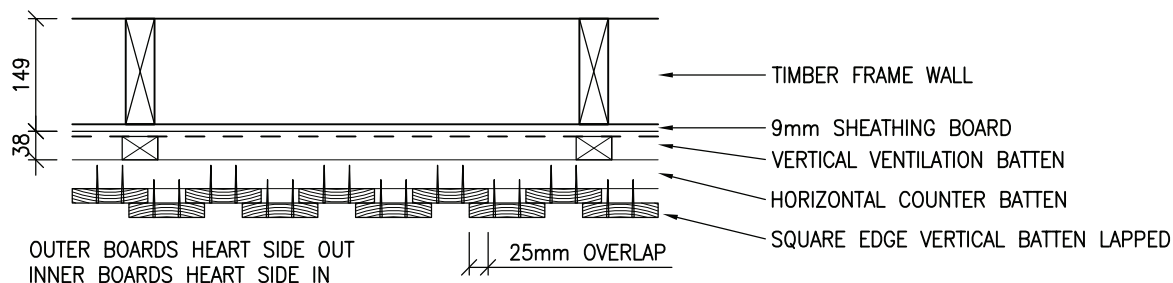
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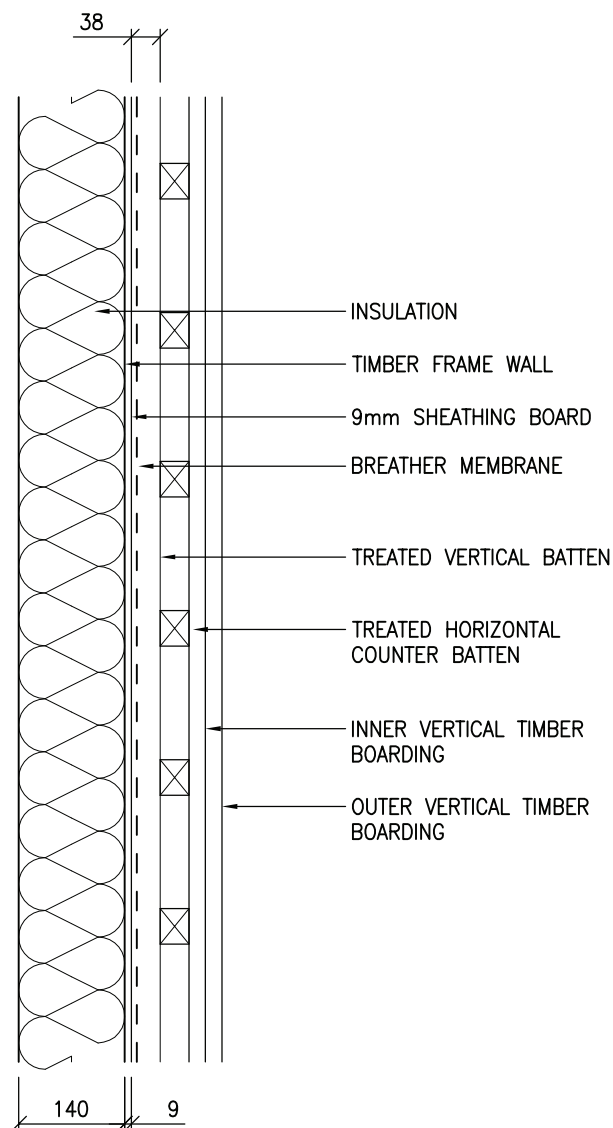
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JAN 08



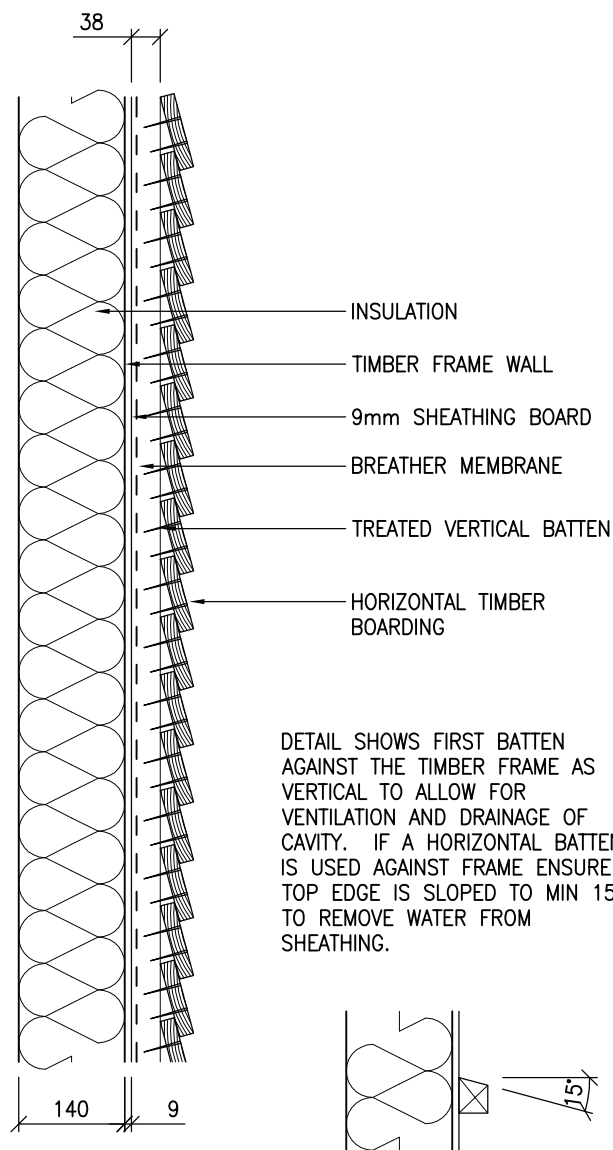
WHEN USING LIGHTWEIGHT
CLADDING ENSURE THAT
INSULATION DETAIL WILL CONFORM
TO PART L OF THE BUILDING
REGULATIONS

ENSURE APPROPRIATE FIRE
PROTECTION IS DETAILED WHEN
THERE IS A PROPERTY WITHIN
CLOSE PROXIMITY

VERTICAL BOARDING



HORIZONTAL BOARDING (SQUARE EDGE BOARDING SHOWN)



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DRAWING TITLE:

TIMBER BOARDING

DRAWING No:

1.8

REVISION:

A

SCALE:

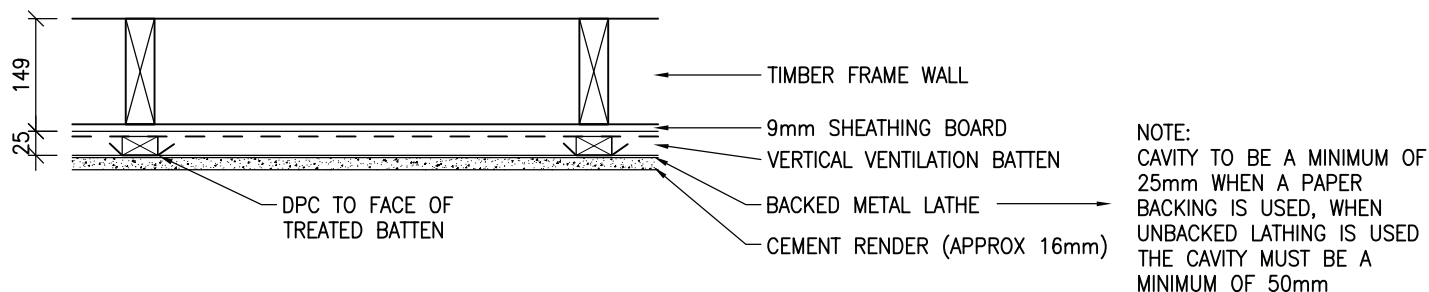
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T.KNIGHT

DATE:

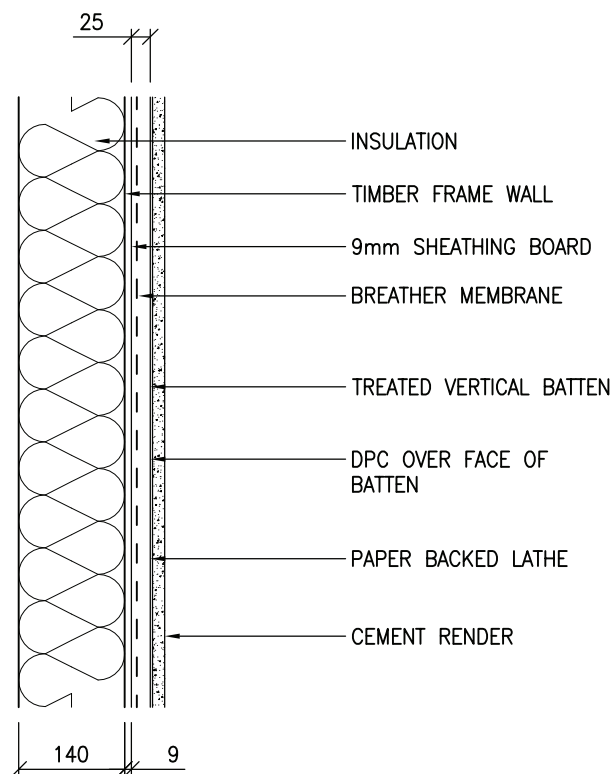
JAN 08



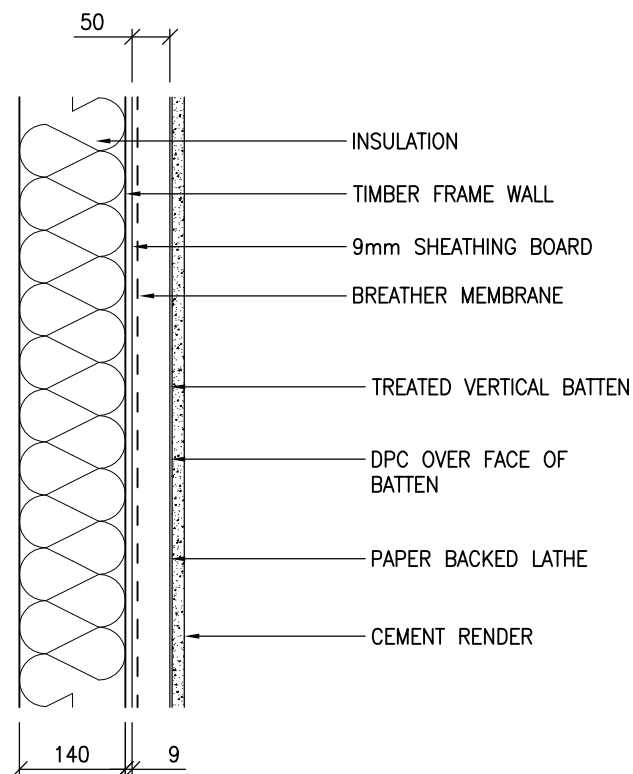
WHEN USING LIGHTWEIGHT CLADDING ENSURE THAT INSULATION DETAIL WILL CONFORM TO PART L OF THE BUILDING REGULATIONS

ENSURE APPROPRIATE FIRE PROTECTION IS DETAILED WHEN THERE IS A PROPERTY WITHIN CLOSE PROXIMITY

RENDER ON PAPER BACKED LATHE



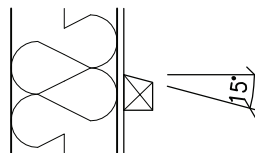
RENDER ON UNBACKED LATHE



WHEN RENDER IS GREATER THAN ONE STOREY ENSURE MOVEMENT GAPS ARE ALLOWED IN THE BATTEN AT FLOOR ZONE AND MOVEMENT JOINTS WITHIN THE RENDER

RENDER CAN ALSO BE FIXED TO FIBRE CEMENT OR CEMENT-BONDED PARTICLE BOARD CLADDING BOARDS, THESE ARE INSTALLED AS ABOVE IN PLACE OF THE METAL LATHE

DETAIL SHOWS FIRST BATTEN AGAINST THE TIMBER FRAME AS VERTICAL TO ALLOW FOR VENTILATION AND DRAINAGE OF CAVITY. IF A HORIZONTAL BATTEN IS USED AGAINST FRAME ENSURE TOP EDGE IS SLOPED TO MIN 15° TO REMOVE WATER FROM SHEATHING.



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DRAWING TITLE:

RENDER ON TIMBER FRAME

DRAWING No:

1.9

REVISION:

A

SCALE:

1:10

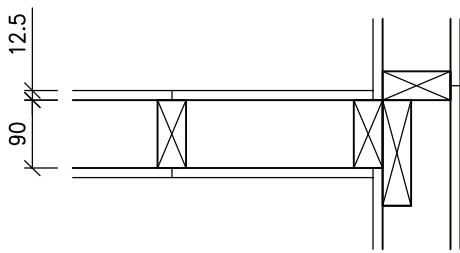
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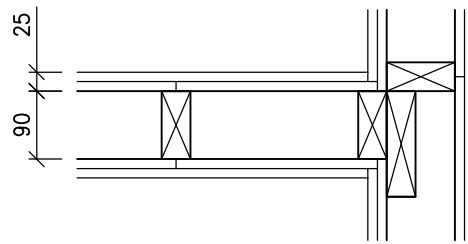
DATE:

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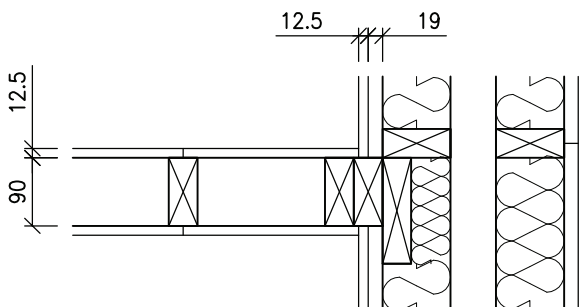
INTERNAL WALL TO INTERNAL WALL
1 1/2 HOUR FIRE RESISTANCE



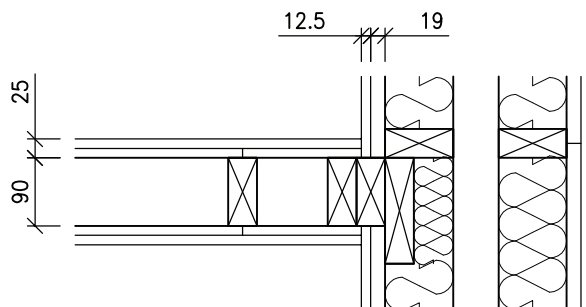
INTERNAL WALL TO INTERNAL WALL
1 HOUR FIRE RESISTANCE



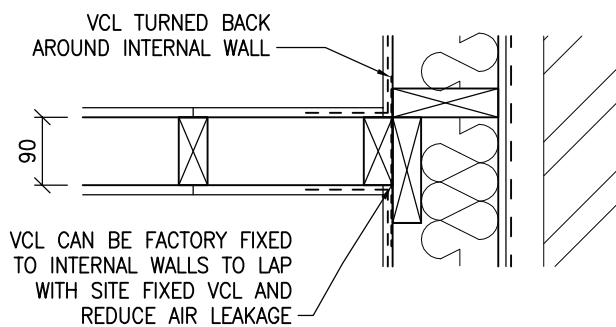
INTERNAL WALL TO SEPARATING WALL
1 1/2 HOUR FIRE RESISTANCE



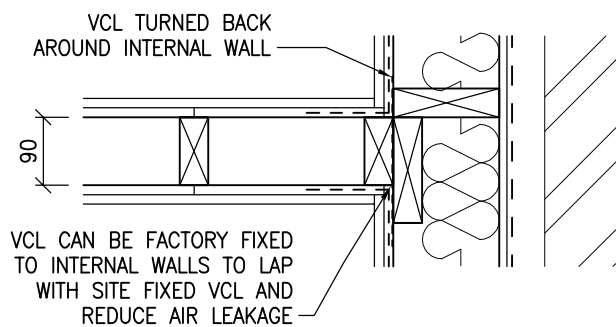
INTERNAL WALL TO SEPARATING WALL
1 HOUR FIRE RESISTANCE



INTERNAL WALL TO EXTERNAL WALL
1 1/2 HOUR FIRE RESISTANCE



INTERNAL WALL TO EXTERNAL WALL
1 HOUR FIRE RESISTANCE



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DRAWING TITLE:
INTERNAL WALL JUNCTIONS

DRAWING No:
2.1

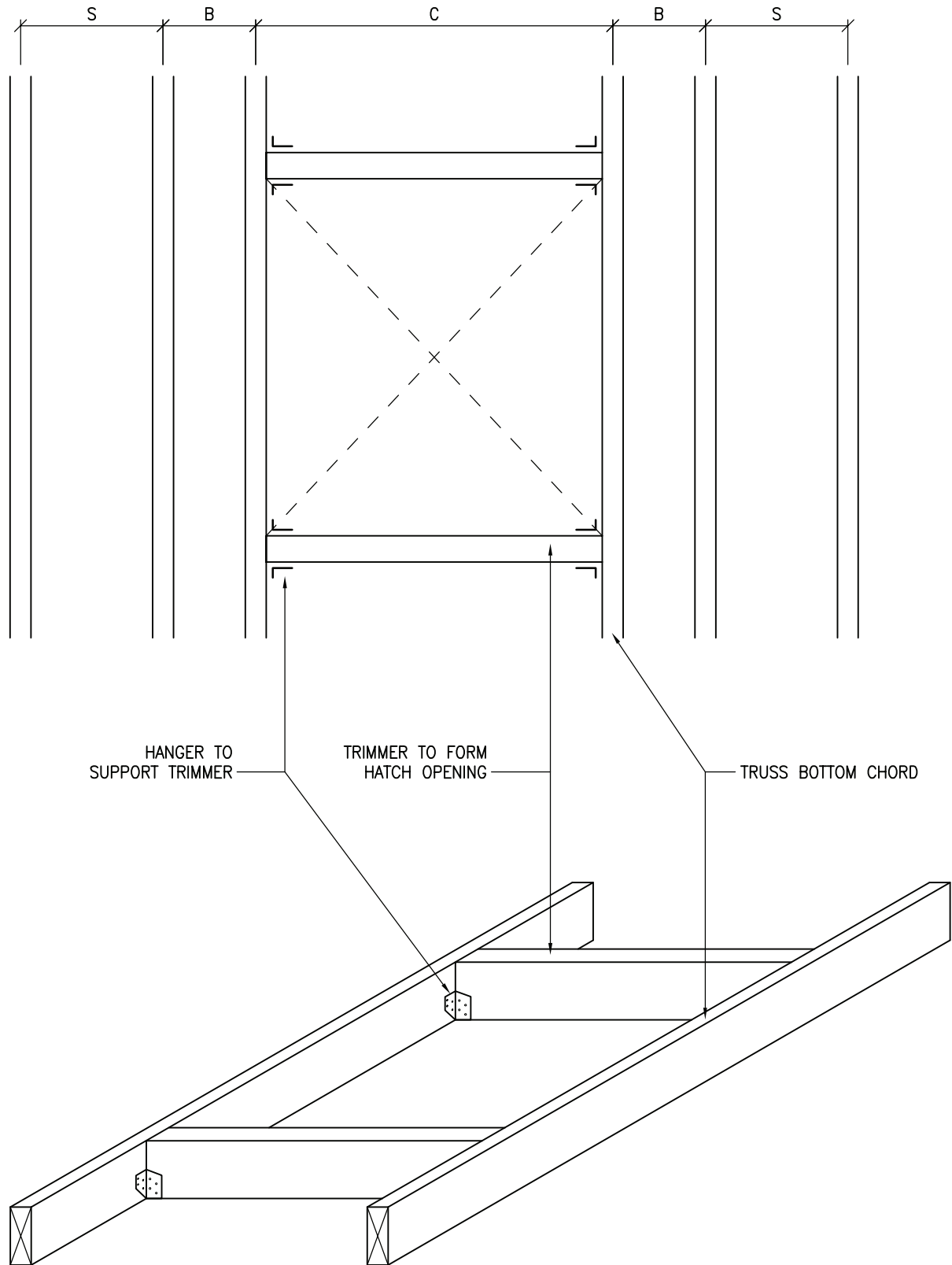
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SCALE:
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2B MUST NOT BE MORE THAN 2S-C WHERE S IS THE STANDARD SPACING



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DRAWING TITLE:
ROOF ACCESS HATCH

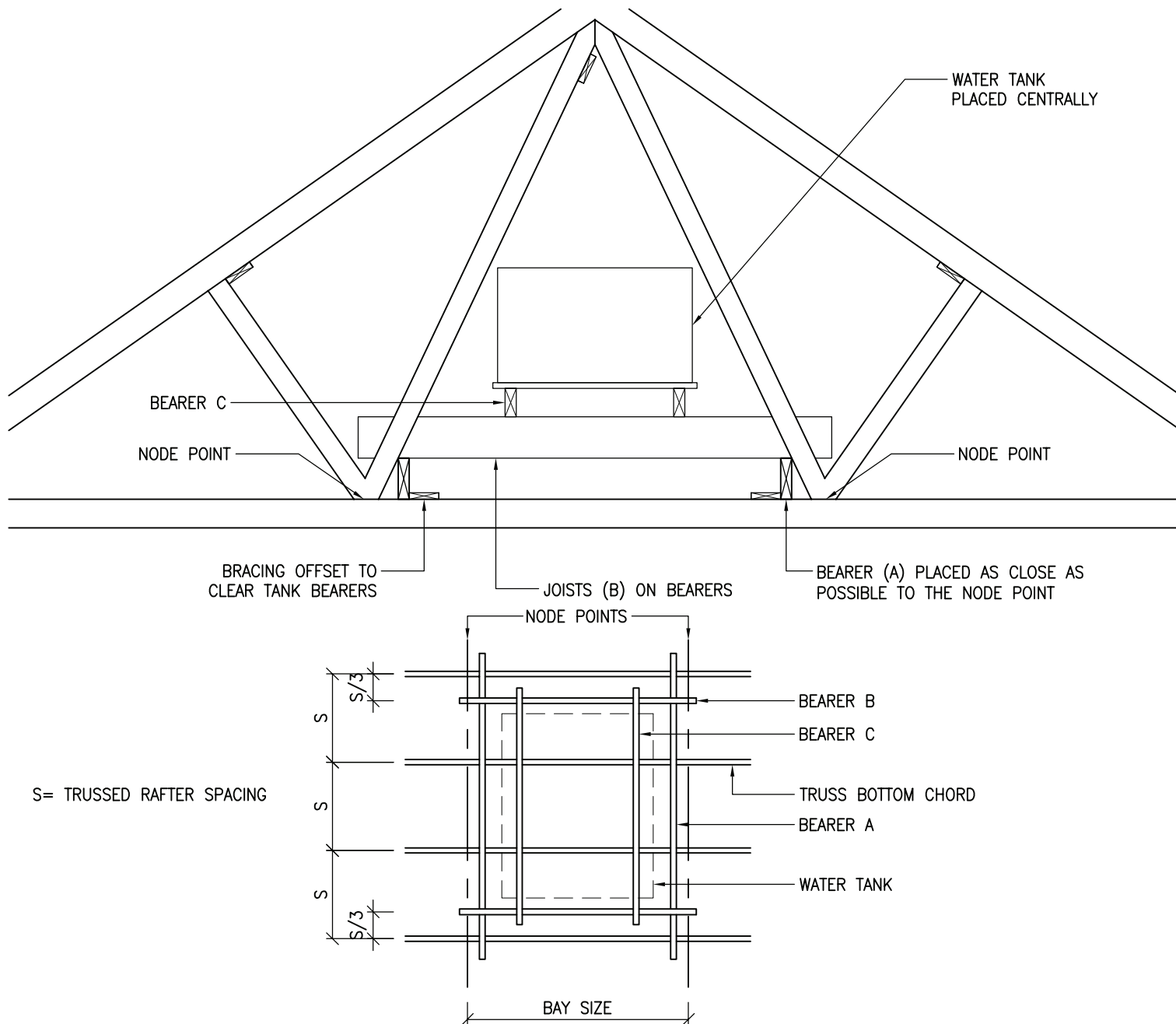
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3.1

REVISION:
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SCALE:
1:10

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DATE:
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SUPPORT MEMBER SIZES FOR DOMESTIC TANKS

TANK CAPACITY TO MARKED WATER LINE	MINIMUM MEMBER SIZE (mm)		MAX TRUSSED RAFTER SPAN FOR FINK (M)	MAX BAY SIZE FOR OTHER CONFIGURATIONS (M)
A + C	B			
NOT MORE THAN 300 LITRES ON 4No. TRUSSED RAFTERS	47x72	2/35x98 or 1/47x120	6.50	2.20
	47x72	2/35x120 or 1/47x145	9.00	2.80
	47x72	2/35x145	12.00	3.80
NOT MORE THAN 230 LITRES ON 3No. TRUSSED RAFTERS	47x72	1/47x97	6.50	2.20
	47x72	2/35x97 or 1/47x120	9.00	2.80
	47x72	2/35x120 or 1/47x145	12.00	3.80



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DRAWING TITLE:
TANK STAND

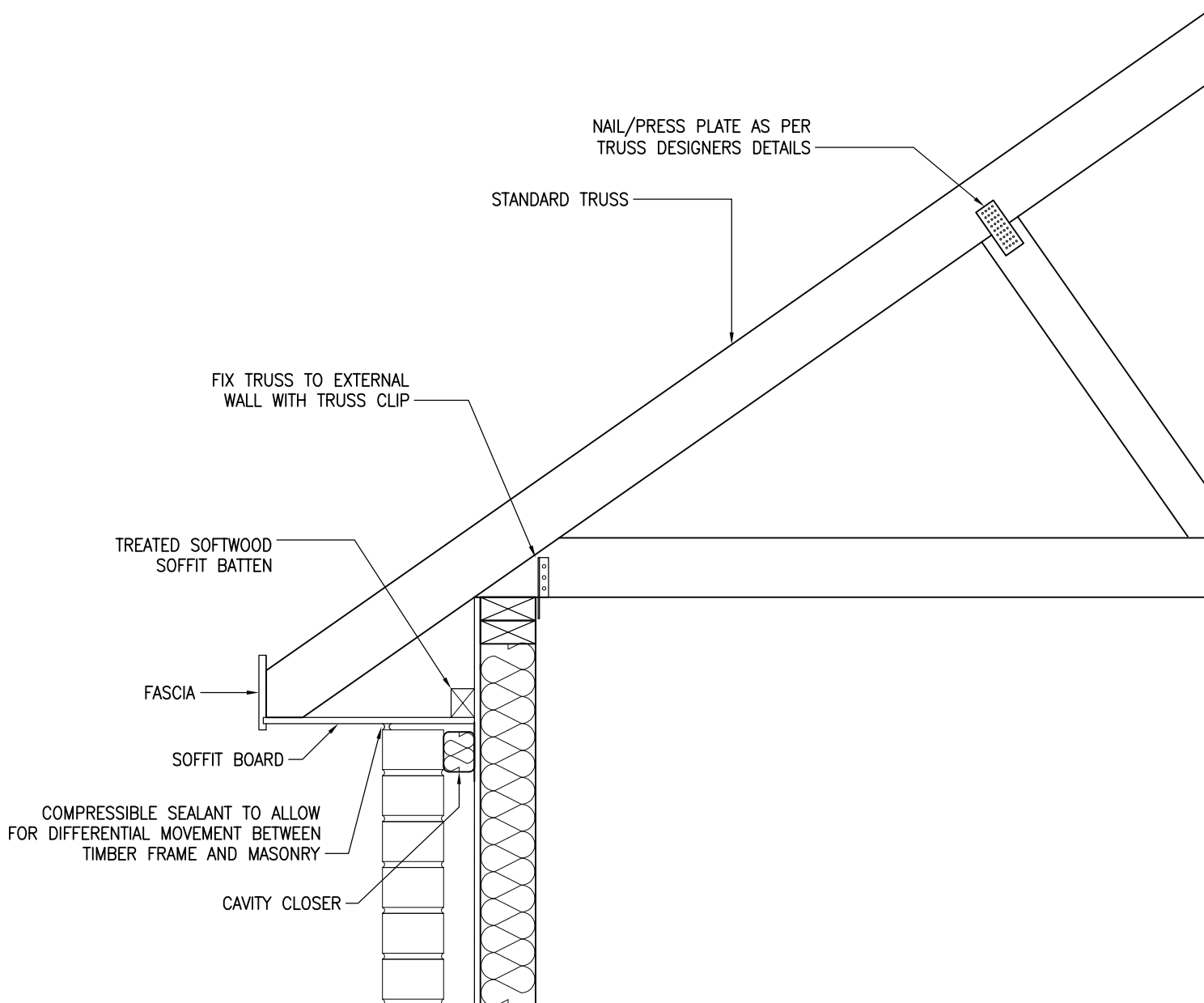
DRAWING No:
3.2

REVISION:
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DRAWING TITLE:
STANDARD TRUSS

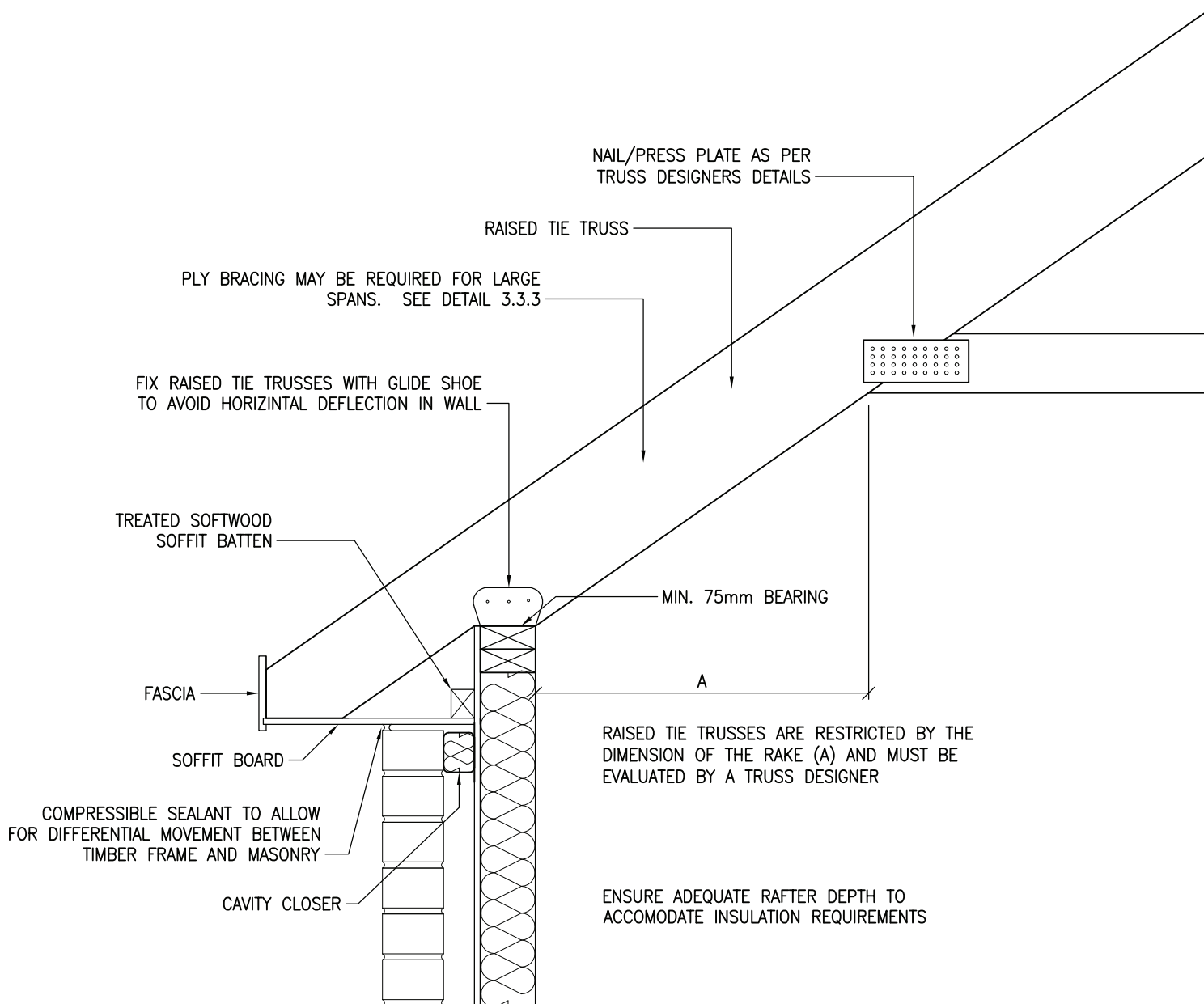
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3.3.1

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DRAWING TITLE:

RAISED TIE TRUSS

DRAWING No:
 3.3.2

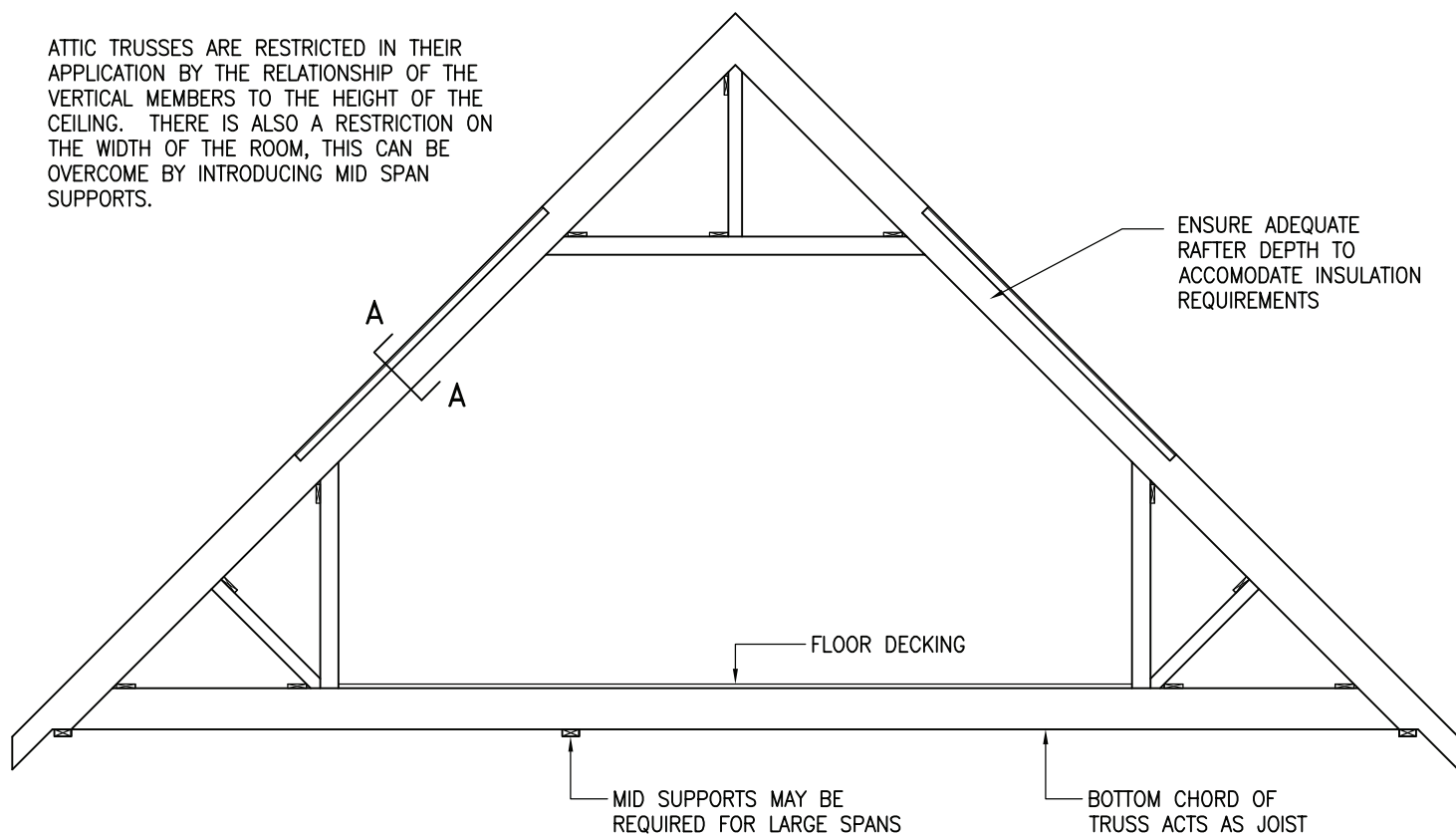
REVISION:
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SCALE:
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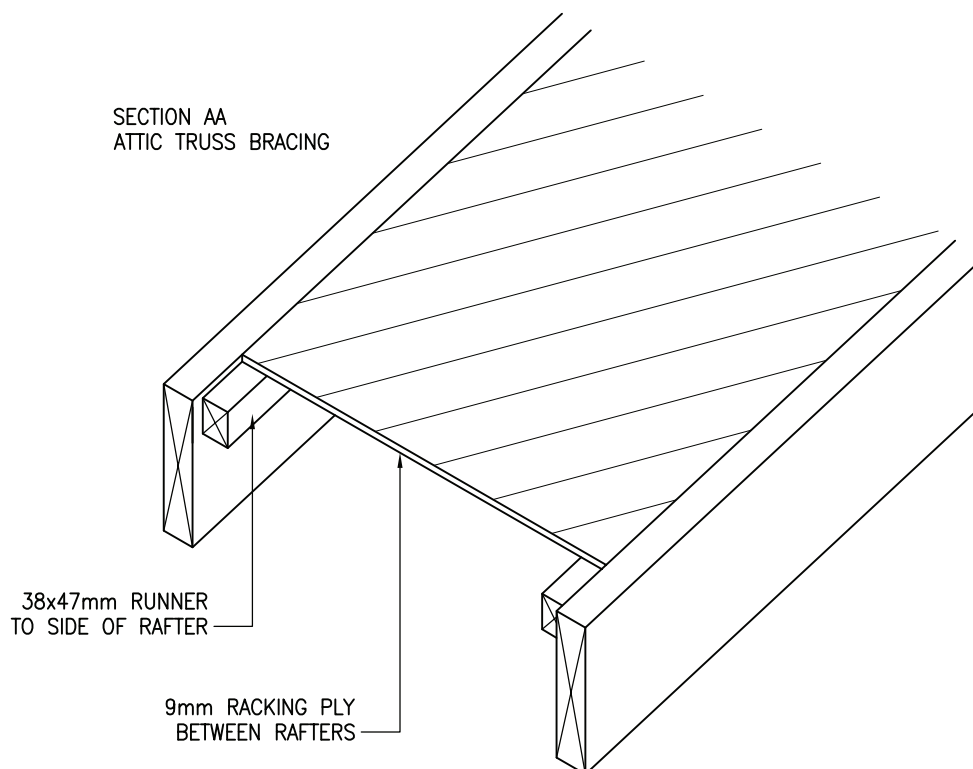
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ATTIC TRUSSES ARE RESTRICTED IN THEIR APPLICATION BY THE RELATIONSHIP OF THE VERTICAL MEMBERS TO THE HEIGHT OF THE CEILING. THERE IS ALSO A RESTRICTION ON THE WIDTH OF THE ROOM, THIS CAN BE OVERCOME BY INTRODUCING MID SPAN SUPPORTS.



SECTION AA
ATTIC TRUSS BRACING



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DRAWING TITLE:
ATTIC TRUSS

DRAWING No:
3.3.3

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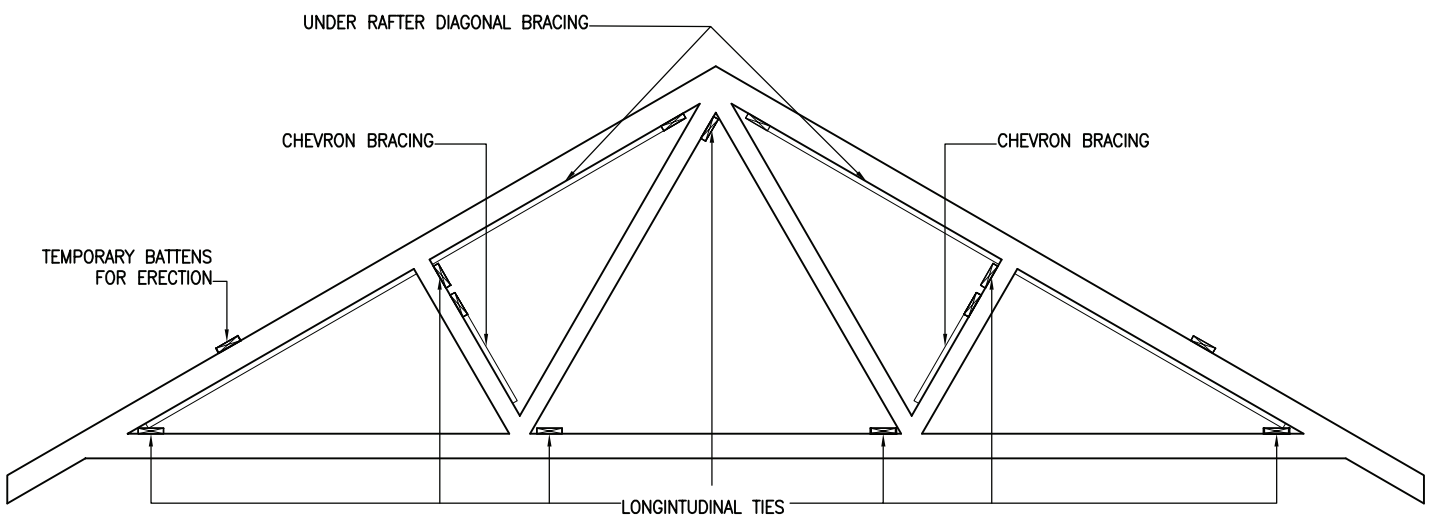
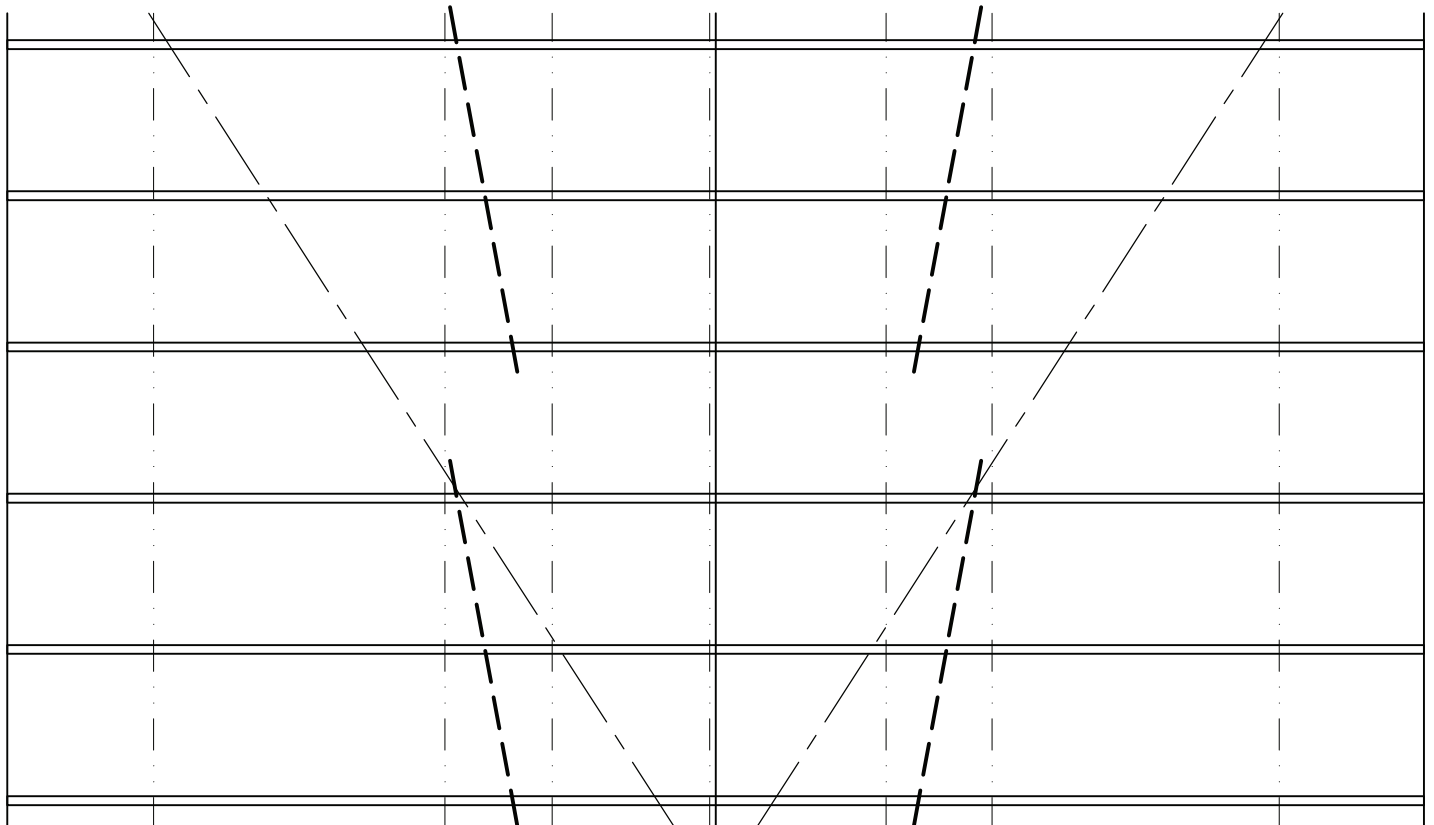
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READ IN CONJUNCTION WITH DETAIL 3.4.1 – 3D ROOF BRACING

- UNDER RAFTER DIAGONAL BRACING:
REPEAT CONTINUOUSLY ALONG ROOF ENSURING THEY COVER MINIMUM 3No. RAFTERS. WHERE LAP JOINTS ARE REQUIRED ENSURE THEY ARE TAKEN OVER 2No. TRUSSES.
ALTERNATE DIRECTION OF BRACING ALONG THE ROOF.
- LONGITUDINAL TIES:
RUN ALONG ENTIRE LENGTH OF ROOF INSTALLED AS CLOSE TO NODE POINT AS POSSIBLE. SET DOWN TOP OF LONGITUDINAL TIES TO ALLOW UNDER RAFTER BRACING TO RUN THROUGH.
- CHEVRON BRACING:
FIXED AT APPROXIMATELY 45° AND NAILED TO AT LEAST 3No. TRUSSES.
REQUIRED AS NECESSARY TO SUIT BS5268 PART 3.



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DRAWING TITLE:
ROOF BRACING

DRAWING No:
3.4

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SCALE:
NTS

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LONGITUDINAL
BRACING

TEMPORARY
BATTEN

TRUSS BRACING TO BE A MINIMUM OF 22mmx100mm AND FIXED WITH 2No. 3.35x65mm GALVANISED WIRE NAILS AT EACH CROSS OVER

ALL BRACINGS TO BE INSTALLED AS CLOSE TO NODE POINTS AS POSSIBLE

LONGITUDINAL
BRACING

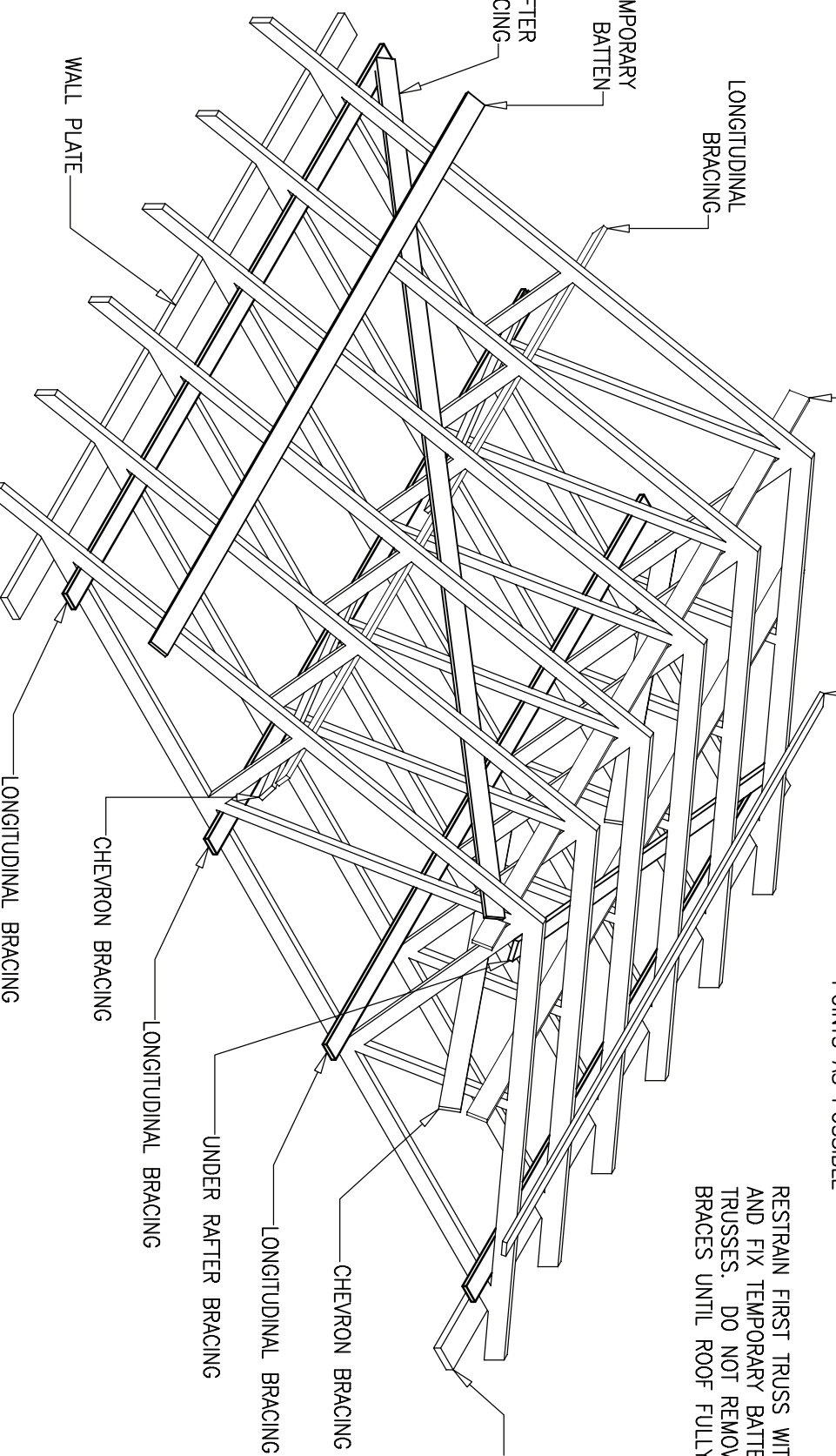
RESTRAIN FIRST TRUSS WITH RAKING BRACING AND FIX TEMPORARY BATTEN TO OUTSIDE OF TRUSSES. DO NOT REMOVE TEMPORARY BRACES UNTIL ROOF FULLY BRACED OUT

TEMPORARY
BATTEN

UNDER RAFTER
BRACING

WALL PLATE

WALL PLATE



A = UNDER RAFTER BRACING
B = LONGITUDINAL BRACING
C = CHEVRON BRACING

READ IN CONJUNCTION WITH DETAIL 3.4 FOR
PLAN LAYOUT OF BRACING



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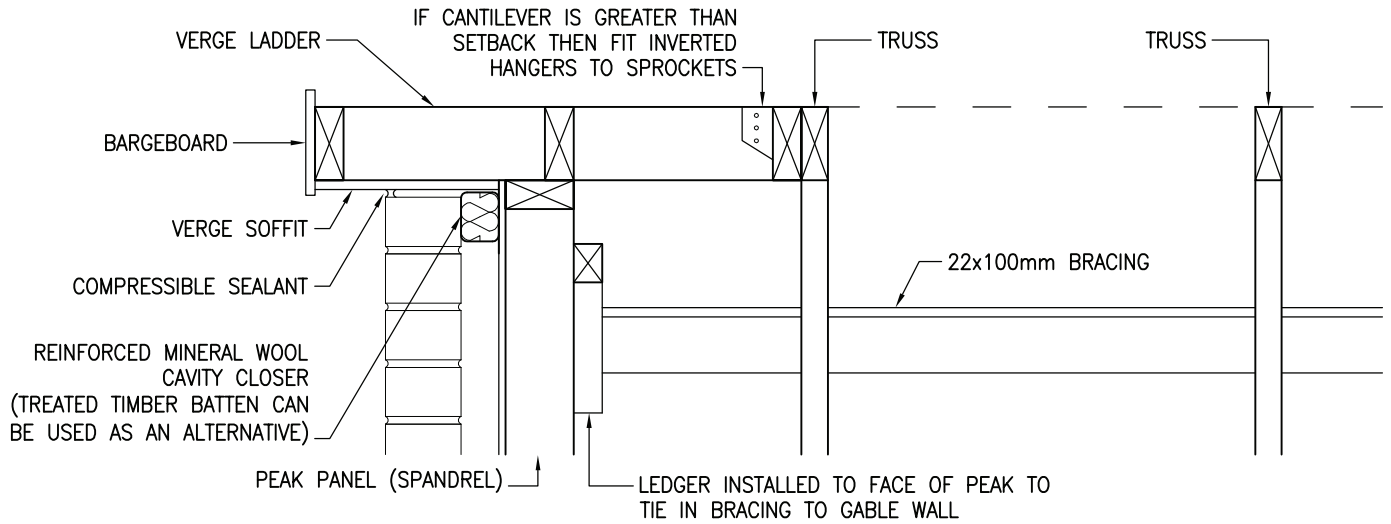
TEL: 01483 769518
FAX: 01483 770863
E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
3D ROOF BRACING

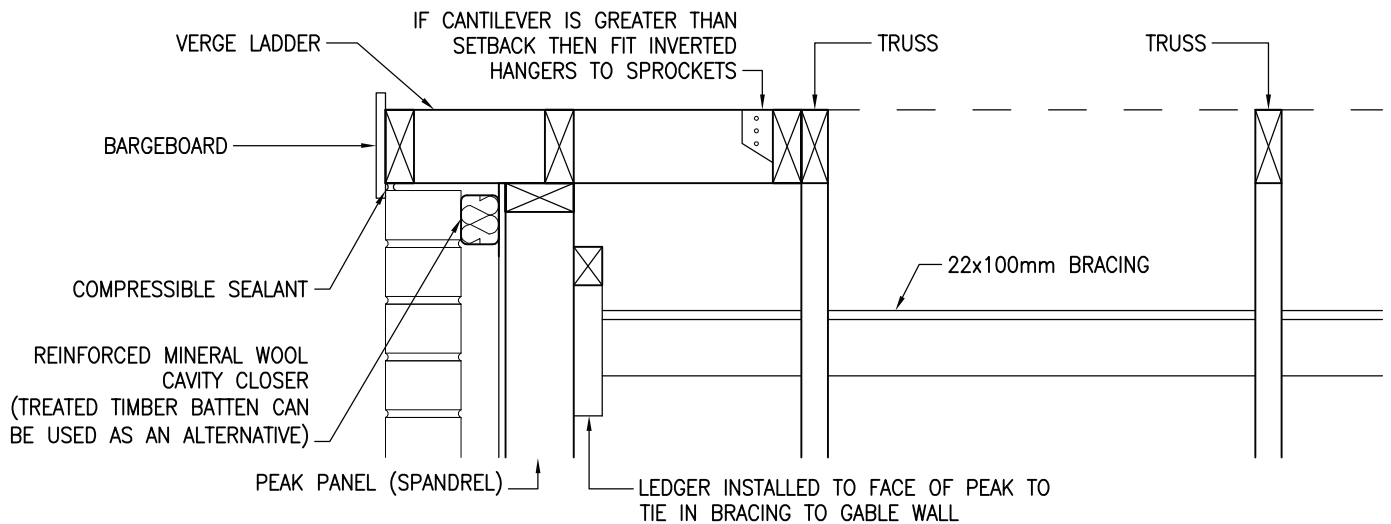
DRAWING No:	REVISION:	SCALE:
3.4.1	-	NTS

DRAWN BY:	DATE:
T.KNIGHT	JAN 08

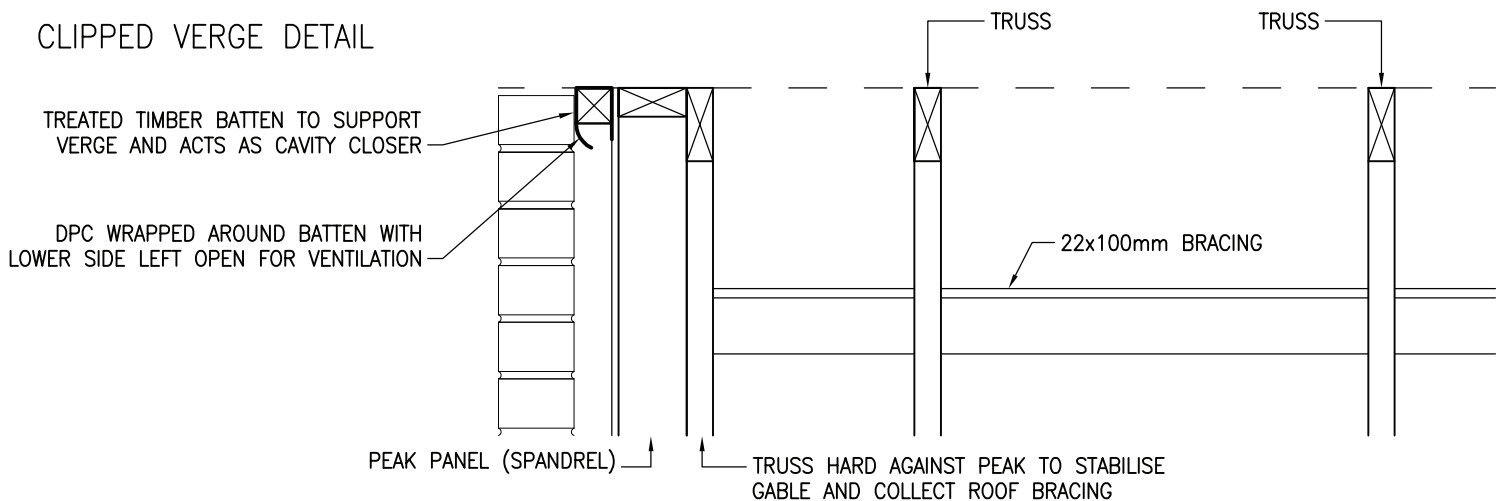
OVERHANGING VERGE DETAIL



FLUSH VERGE DETAIL



CLIPPED VERGE DETAIL



Building 1 Grosvenor Court
Hiple Street
Old Woking
SURREY
GU22 9LL

TEL: 01483 769518

FAX: 01483 770863

E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
VERGE DETAILS

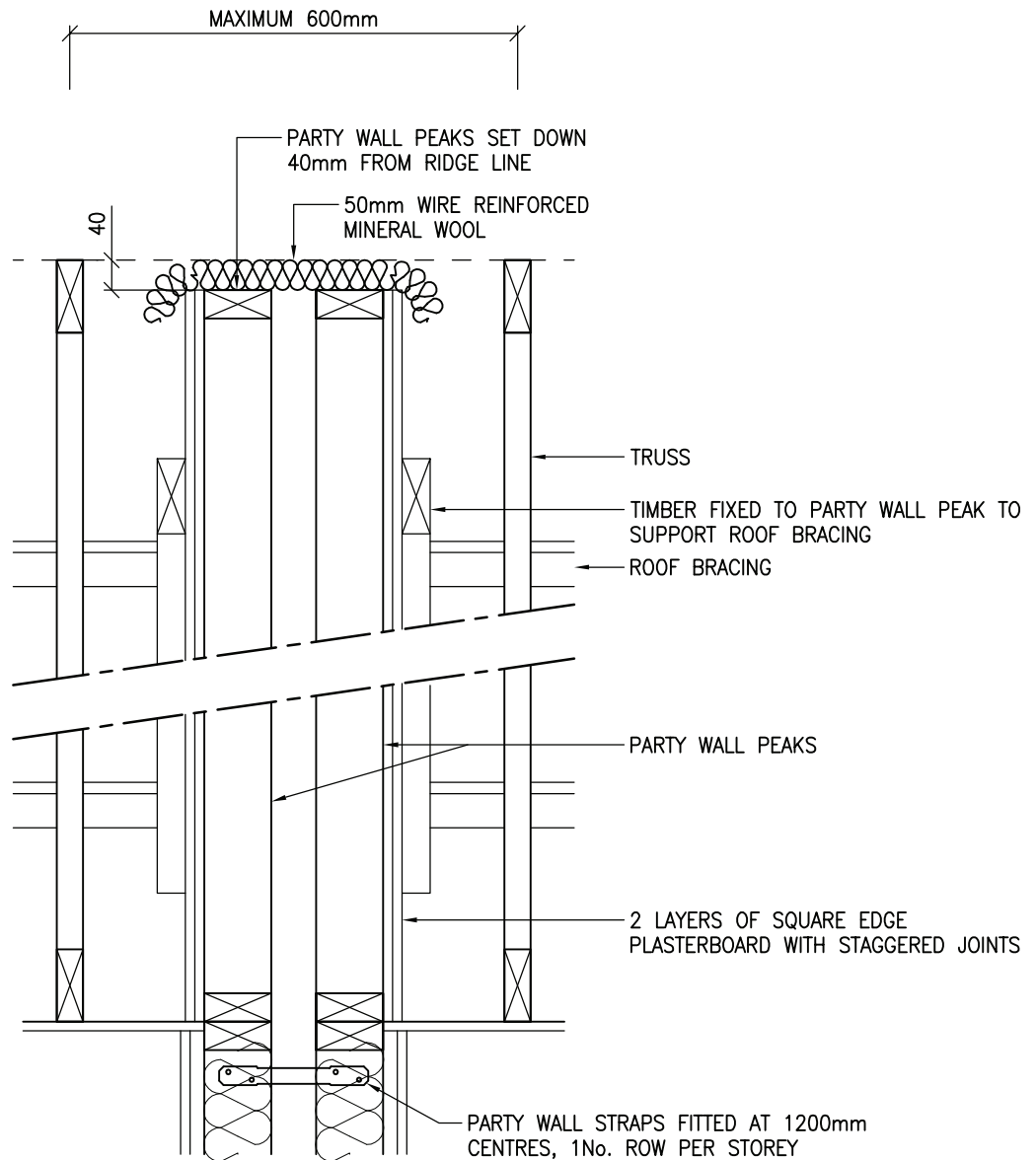
DRAWING No:
3.5.1

REVISION:
-

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



NOTE:

DETAIL SHOWN IS FOR A "SOFT PEAK". IF PARTY WALL PEAKS ARE NOT SET DOWN, OR THE TRUSSES ARE NOT SET AT A MAXIMUM OF 600mm ABOUT THE CENTRELINE, THEN THE TILE BATTEN WILL BE FORCED TO BEAR ON THE PEAKS. AS THE TRUSSES WILL DEFLECT RELATIVE TO THE PEAKS THEN OVER TIME A RAISED SECTION WILL BE FORMED IN THE ROOF PLANE. THIS IS REFERRED TO AS A "HARD PEAK" AND SHOULD BE AVOIDED.



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DRAWING TITLE:
TRUSS PARALLEL TO SEPARATING WALL

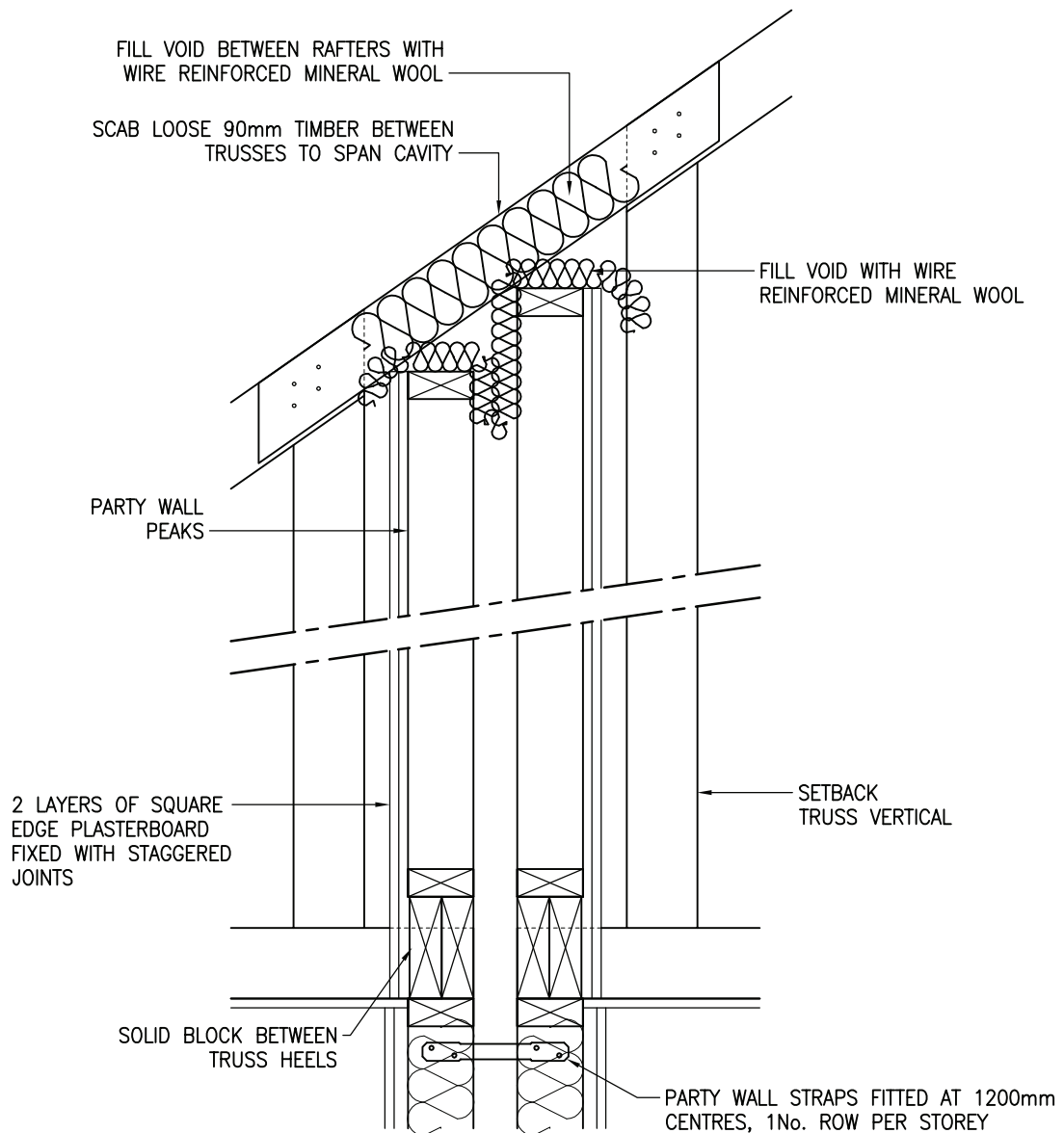
DRAWING No:
3.5.2

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



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FAX: 01483 770863
E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
TRUSS PERPENDICULAR
TO SEPARATING WALL

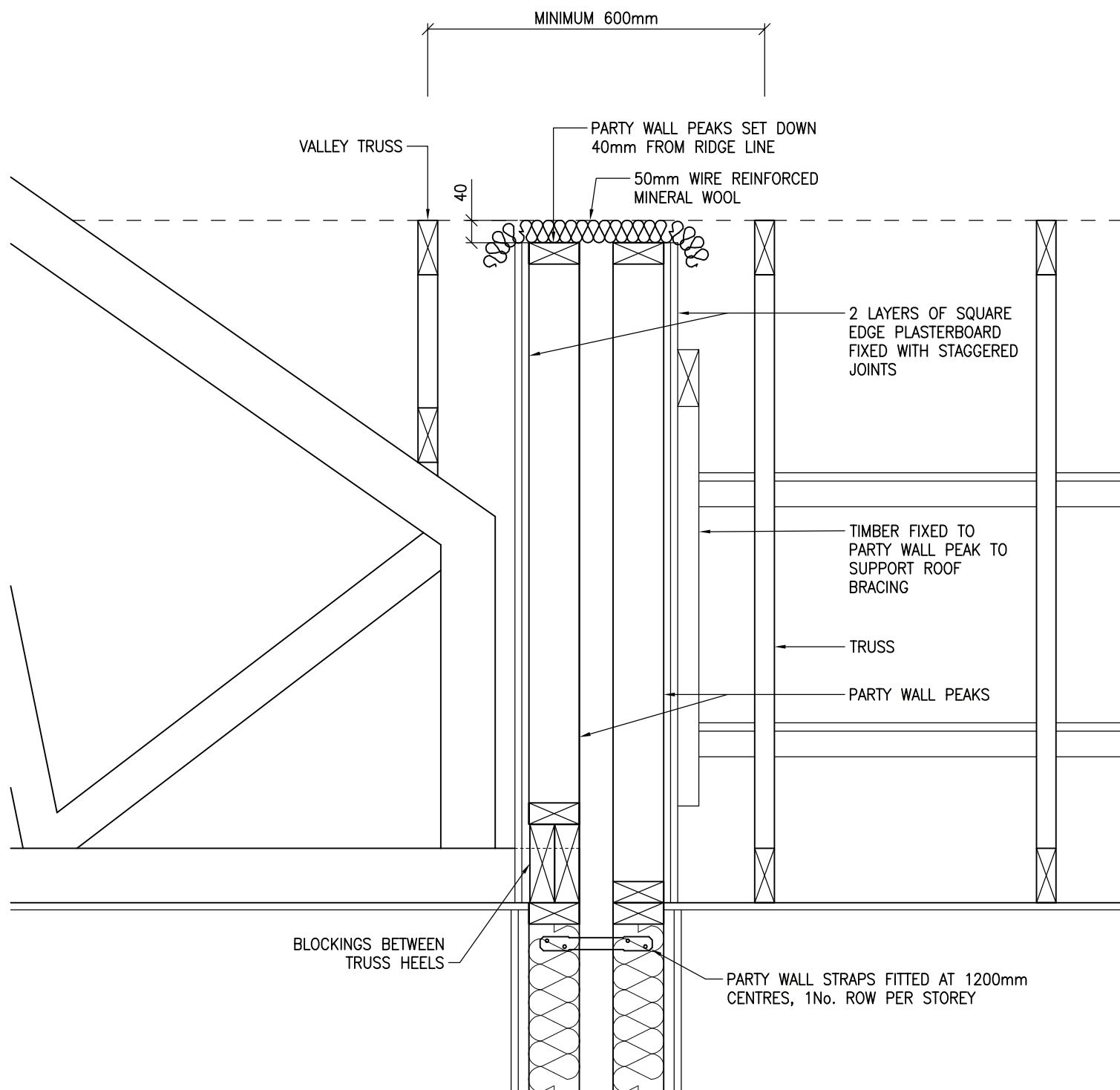
DRAWING No:
3.5.3

REVISION:
-

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



NOTE:

DETAIL SHOWN IS FOR A "SOFT PEAK". IF PARTY WALL PEAKS ARE NOT SET DOWN, OR THE TRUSSES ARE NOT SET AT A MAXIMUM OF 600mm ABOUT THE CENTRELINE, THEN THE TILE BATTEN WILL BE FORCED TO BEAR ON THE PEAKS. AS THE TRUSSES WILL DEFLECT RELATIVE TO THE PEAKS THEN OVER TIME A RAISED SECTION WILL BE FORMED IN THE ROOF PLANE. THIS IS REFERRED TO AS A "HARD PEAK" AND SHOULD BE AVOIDED.



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DRAWING TITLE:
TRUSS AT RIGHT ANGLES TO EACH
OTHER AT SEPARATING WALL

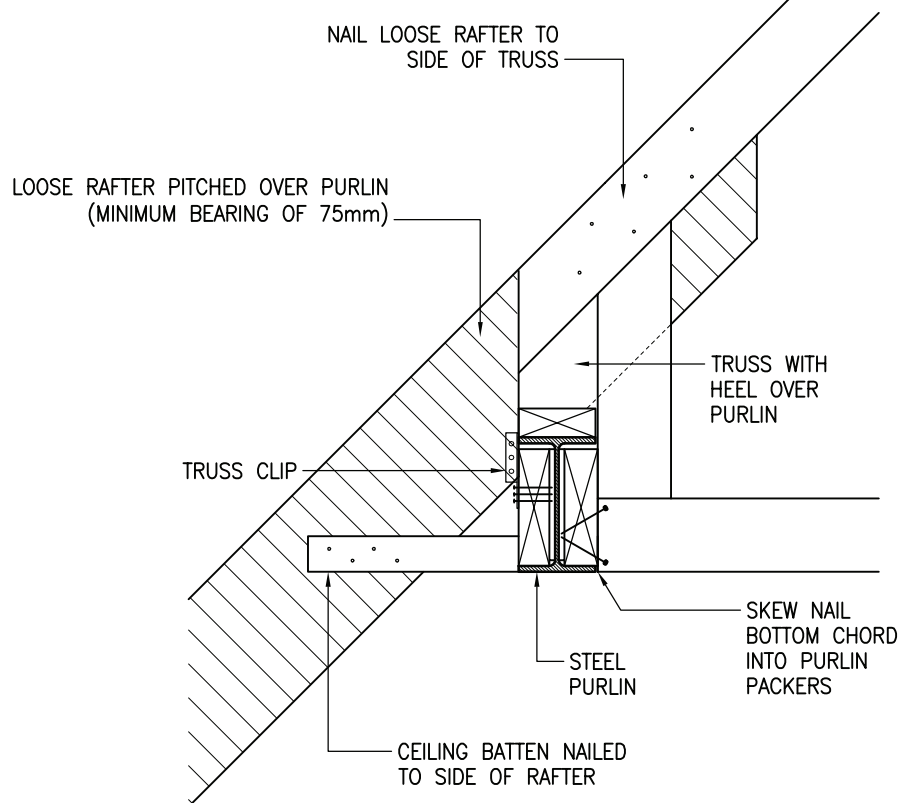
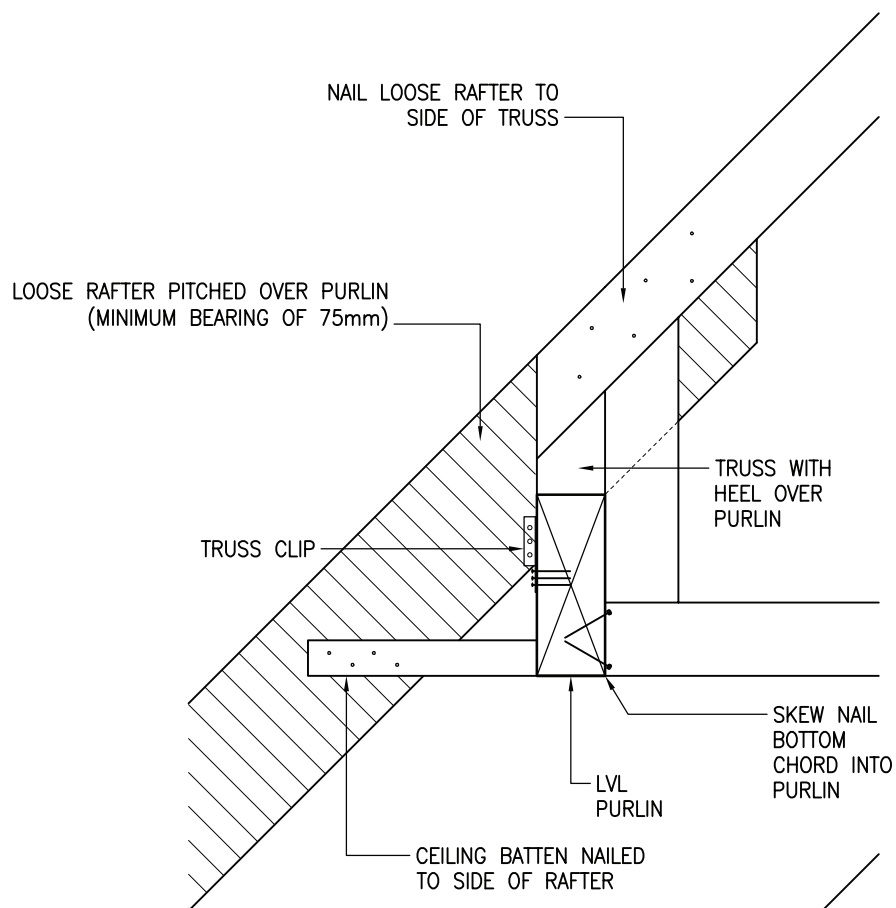
DRAWING No:
3.5.4

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
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FAX: 01483 770863
E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
PURLIN CONNECTIONS

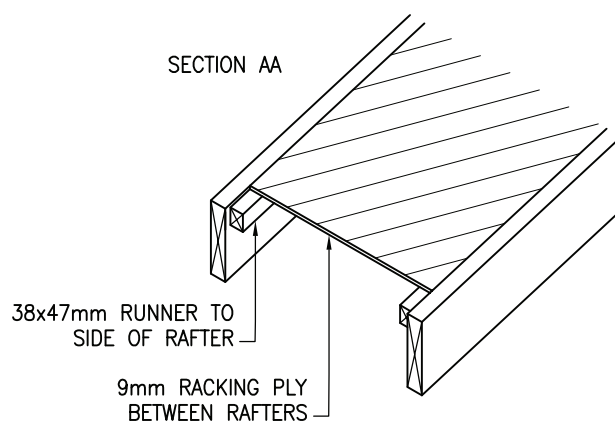
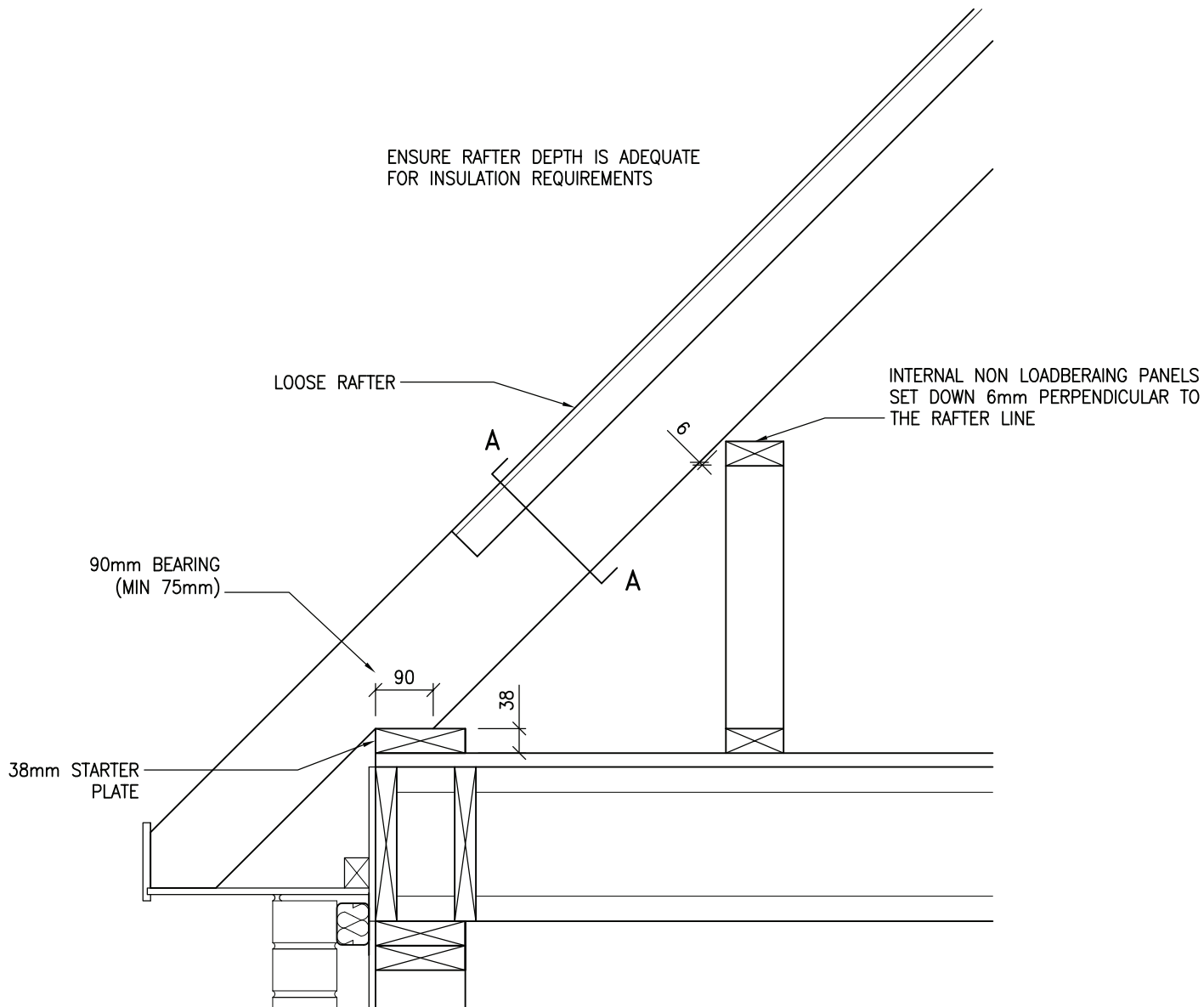
DRAWING No:
3.6

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
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FAX: 01483 770863
E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
RAFTERS ON FLOOR DECK

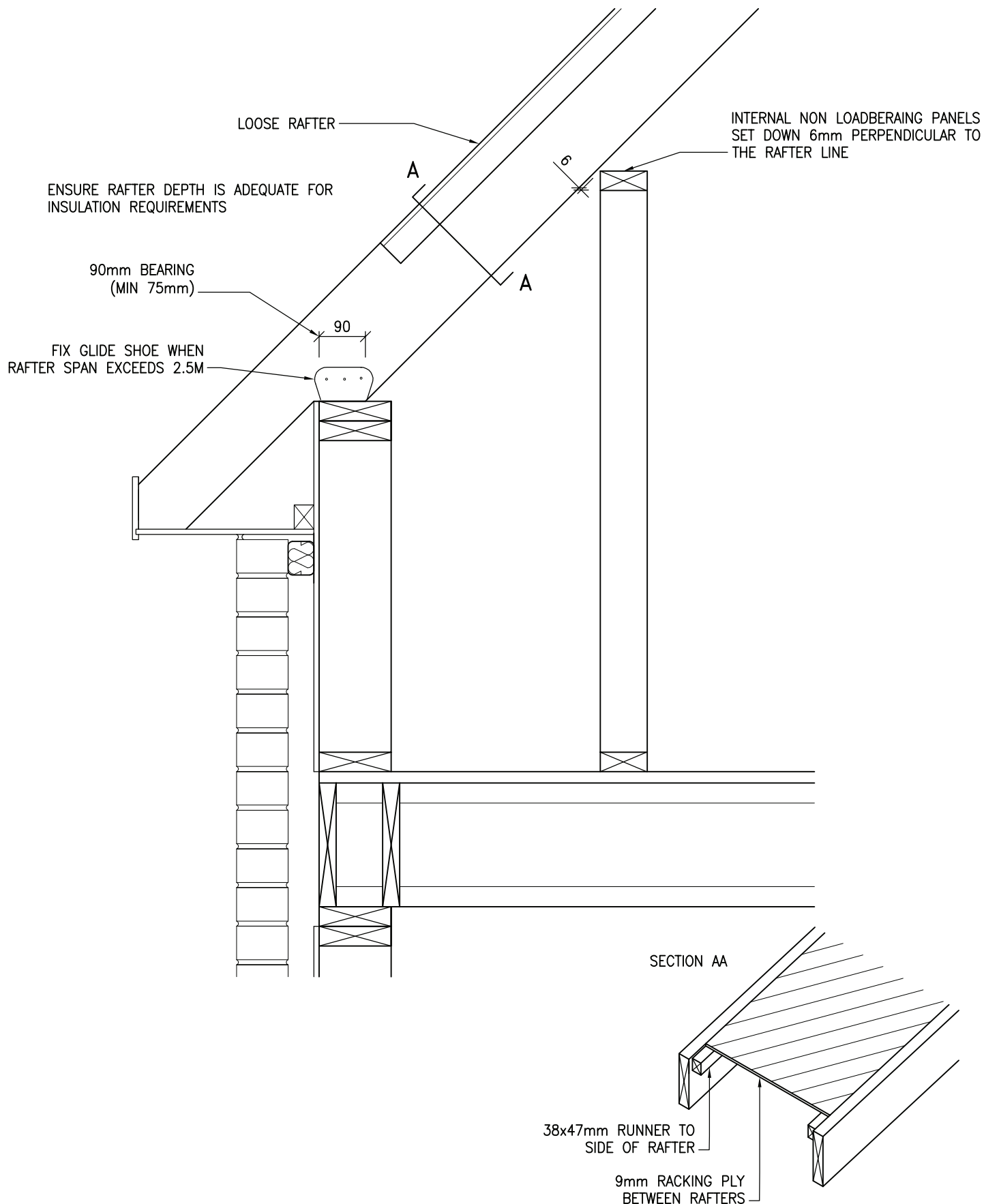
DRAWING No:
3.7.1

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



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DRAWING TITLE:
RAFTERS ON DWARF WALL

DRAWING No:
3.7.2

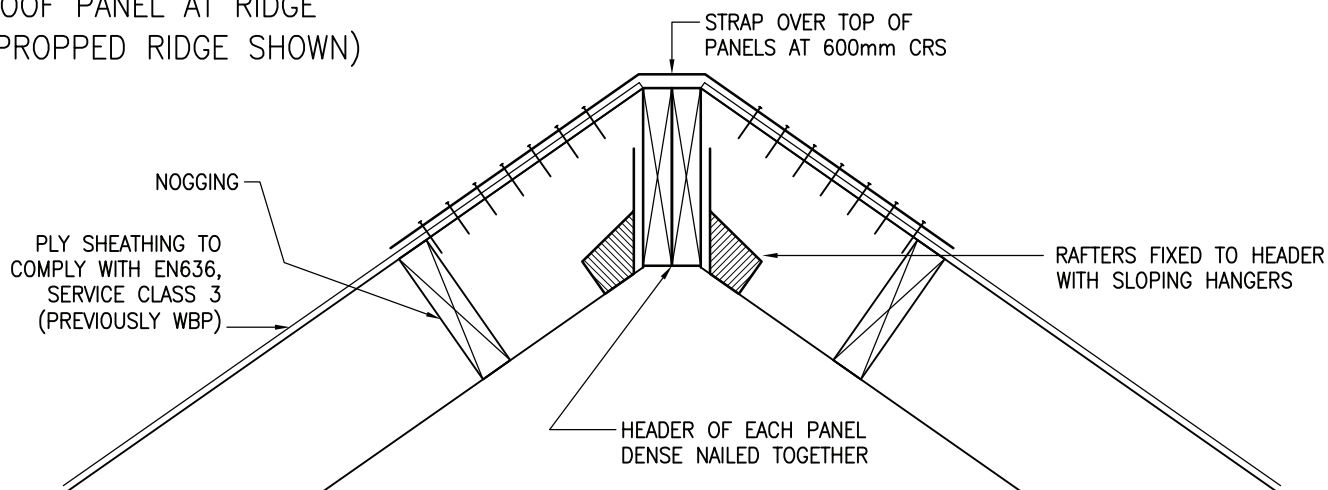
REVISION:
A

SCALE:
1:10

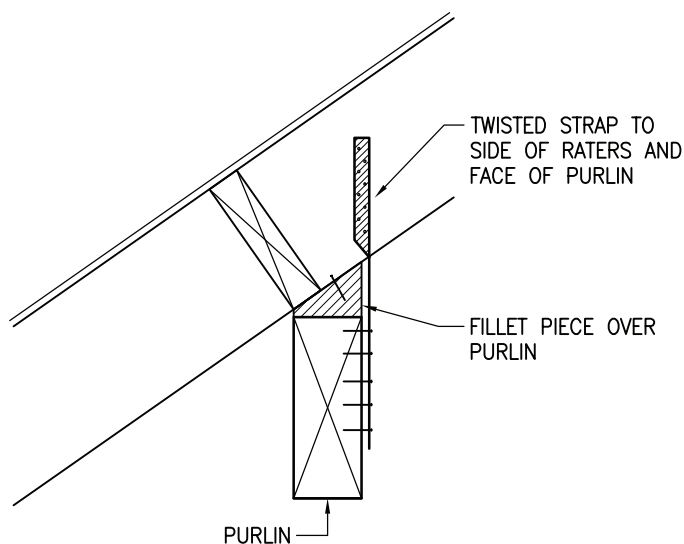
DRAWN BY:
T.KNIGHT

DATE:
JAN 08

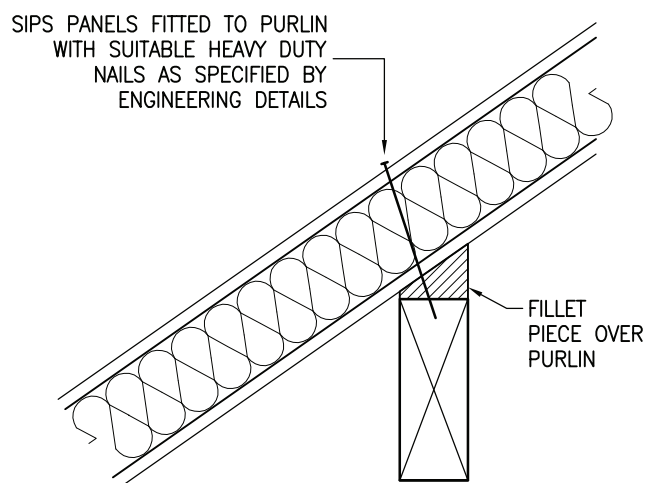
ROOF PANEL AT RIDGE (PROPPED RIDGE SHOWN)



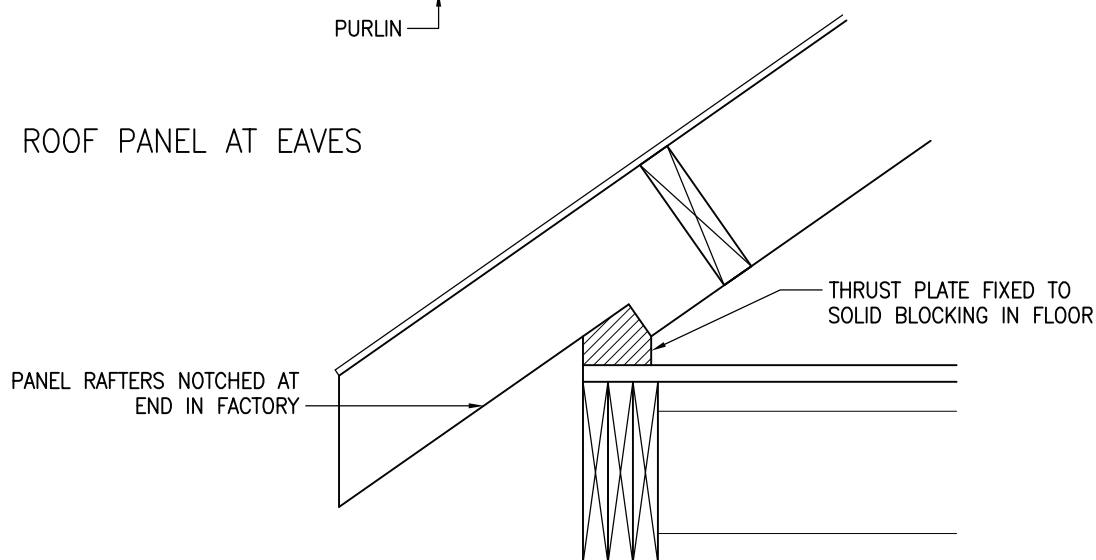
ROOF PANEL AT PURLIN



SIPS AT PURLIN



ROOF PANEL AT EAVES



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DRAWING TITLE:
ROOF PANEL CONNECTIONS

DRAWING No:
3.8.1

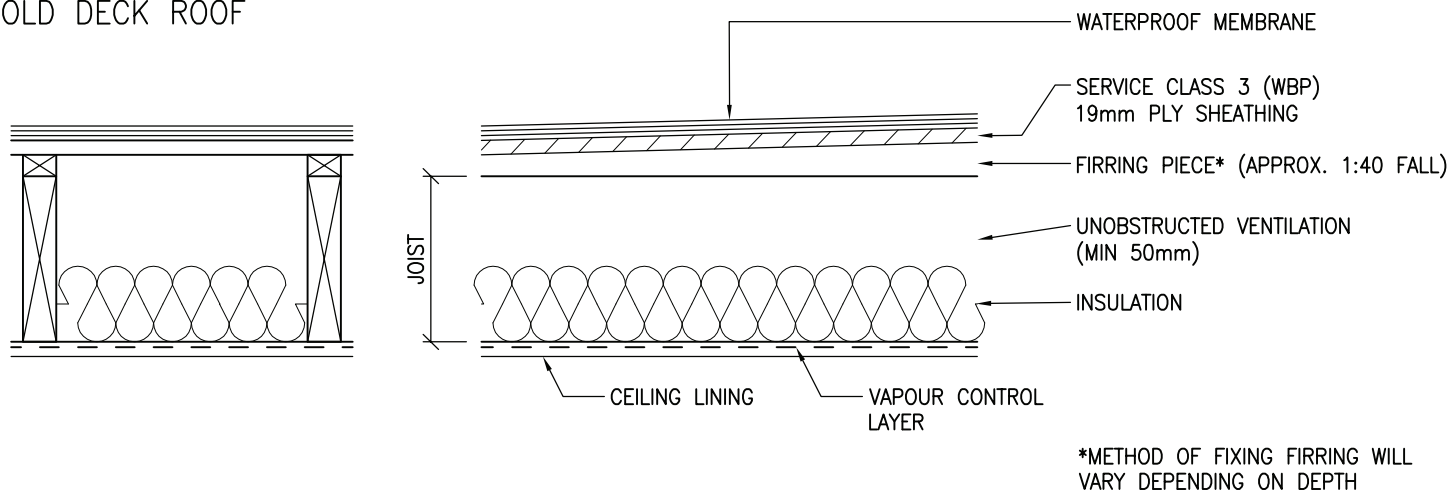
REVISION:
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SCALE:
1:10

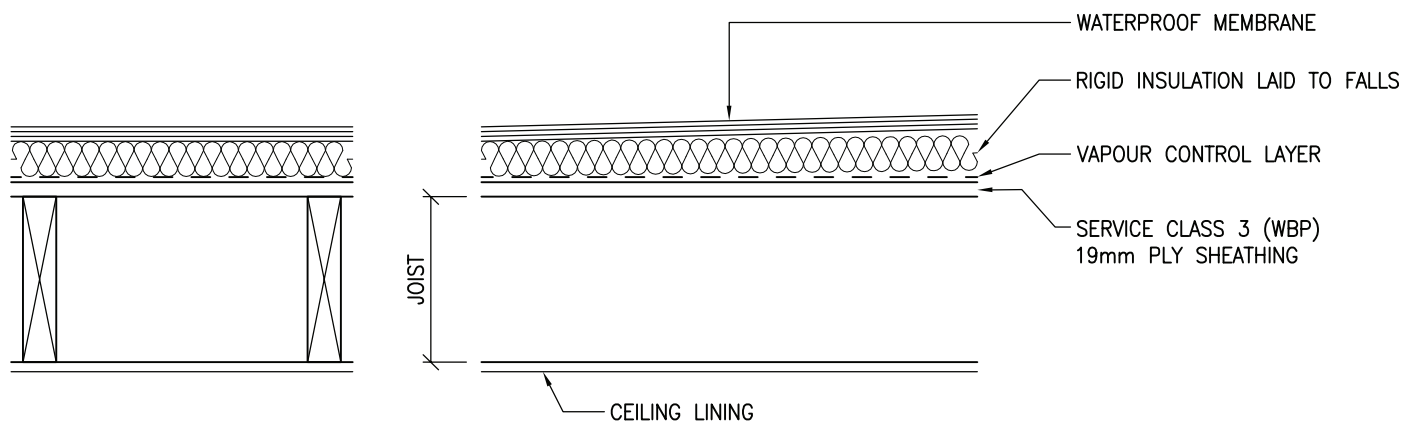
DRAWN BY:
T.KNIGHT


DATE:
JAN 08

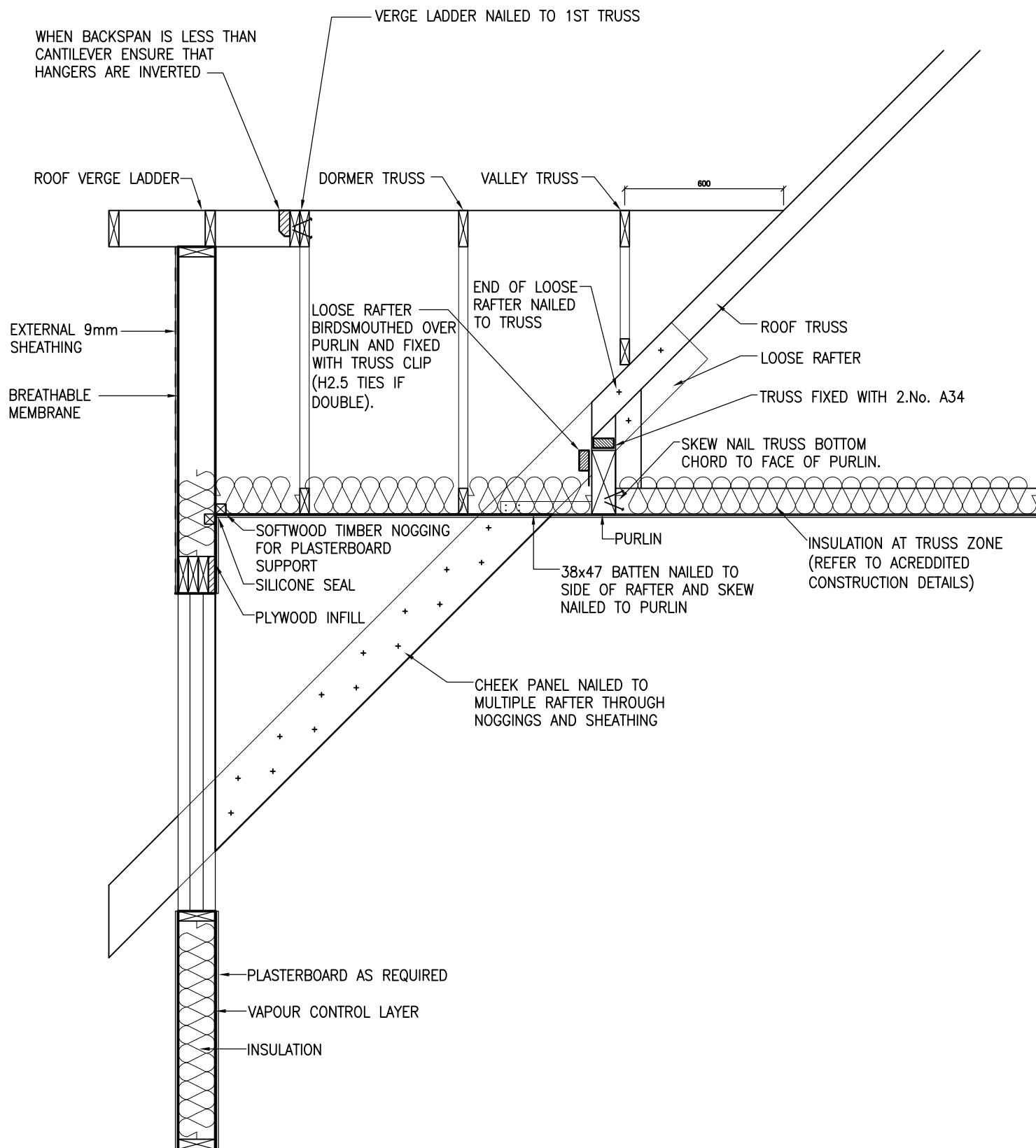
COLD DECK ROOF



WARM DECK ROOF



 <p>Building 1 Grosvenor Court Hiple Street Old Woking SURREY GU22 9LL</p> <p>TEL: 01483 769518 FAX: 01483 770863 E-MAIL: design@silvatecdesign.com</p>	DRAWING TITLE: FLAT ROOF JOISTS AND DECK		
	DRAWING No: 3.9	REVISION: -	SCALE: 1:10
	DRAWN BY: T.KNIGHT	DATE: JAN 08	



TO SEE DETAIL IN PERSPECTIVE, REFER TO DRAWING No.1.2



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DRAWING TITLE:
DORMER—SECTION

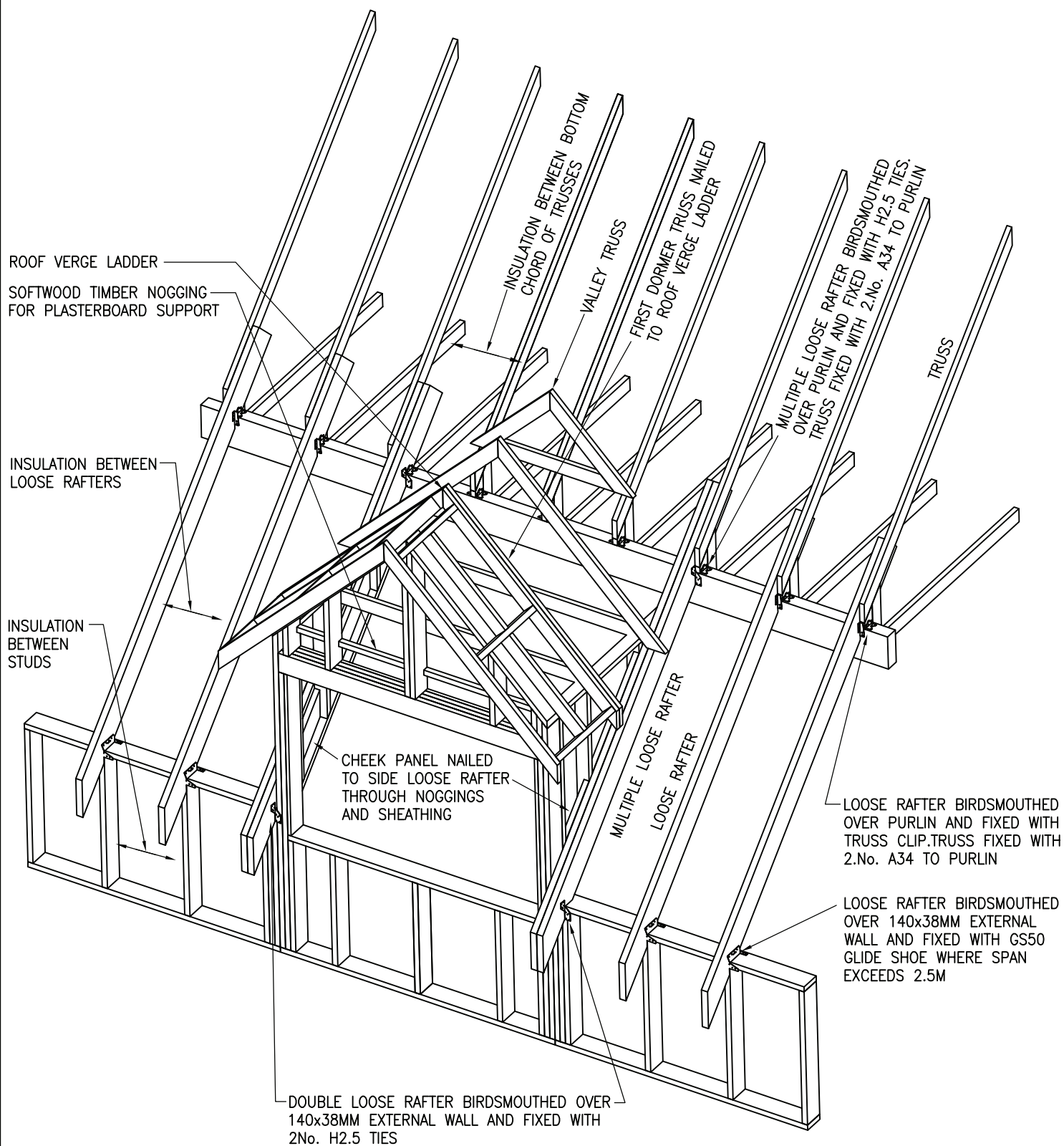
DRAWING No:
3.10

REVISION:
—

SCALE:
1:20

DRAWN BY:
M.SINGLIAR

DATE:
APR 08



TO SEE DETAIL IN SECTION, REFER TO DRAWING No.???



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DRAWING TITLE:

DORMER — PERSPECTIVE

DRAWING No:
3.11

REVISION:
—

SCALE:
NTS

DRAWN BY:
M.SINGLIAR

DATE:
APR 08

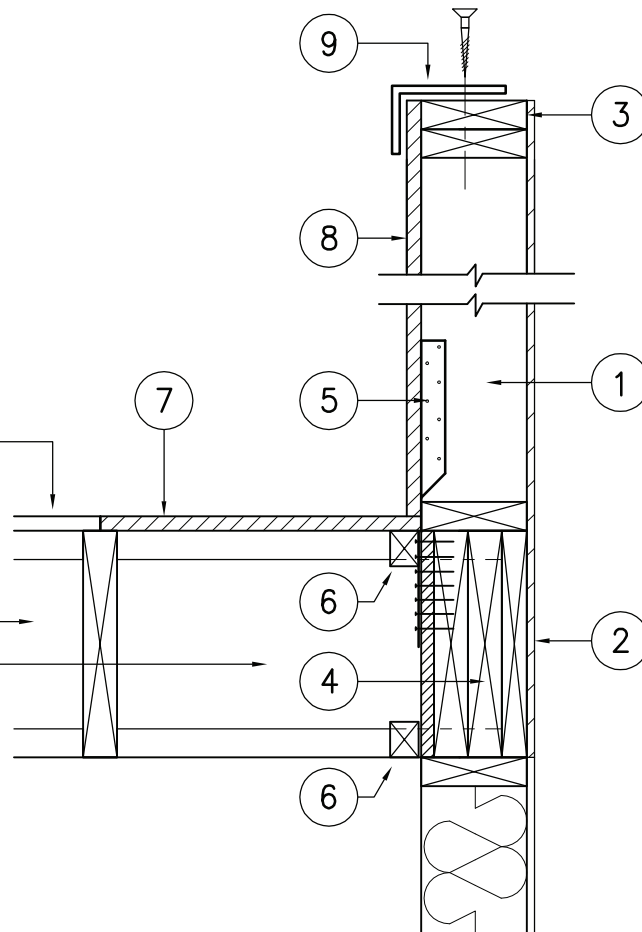
NOTE: PARAPET STUDS TO BE OFFSET FROM JOISTS BY 150mm TO ENSURE THAT MTS12 STRAP CAN BE FIXED.

NOTE: DETAIL APPLIES TO A MAXIMUM PARAPET HEIGHT OF 1300MM FROM TOP OF DECK. THOSE THAT EXCEED 1100MM REQUIRE ADDITIONAL WIND CHECK.

FLOORING GRADE BOARD
(COMMONLY 19MM
SERVICE CLASS 3 PLY)

JOIST (FJI JOIST SHOWN)

FLOOR ZONE INSULATION
OMITTED FOR CLARITY



ERECT SEQUENCE

1. FIX PANEL DOWN TO HEADER BEAM
2. FIX DOWNSTAND SHEATHING TO OUTSIDE OF HEADER BEAM
3. FIX 38 x 140 TOP TIE RAIL
4. FIX KERTO BLOCKINGS & PLY TO HEADER (IF NOT DONE IN FACTORY)
5. FIX 2 No. MTS12 TWIST STRAPS TO EVERY PARAPET STUD AT 300mm CENTRES AND DOWN FACE OF HEADER BEAM
6. FIX 38 x 47 NOGGIN TO INSIDE FACE OF BLOCKING (AT BOTH TOP & BOTTOM)
7. FIX 19mm PLY INFILL DECK
8. FIX 19mm UPSTAND PLY
9. IF PARAPET HEIGHT IS GREATER THAN 4500MM – FIX ANGLE TO TOP OF RAIL WITH 10MM COACH SCREWS

PLEASE NOTE THAT THIS DETAIL IS A CONSTRUCTION AID AND SILVATEC CANNOT TAKE ANY RESPONSIBILITY FOR THIS DETAIL ON ANY PROJECT WHERE SILVATEC DESIGN HAVE NOT UNDERTAKEN THE ENGINEERING.



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DRAWING TITLE:
PARAPET FIXING – JOISTS PERPENDICULAR

DRAWING No:
3.12

REVISION:
–

SCALE:
1:10

DRAWN BY:
T.ROBERTS

DATE:
DEC 08

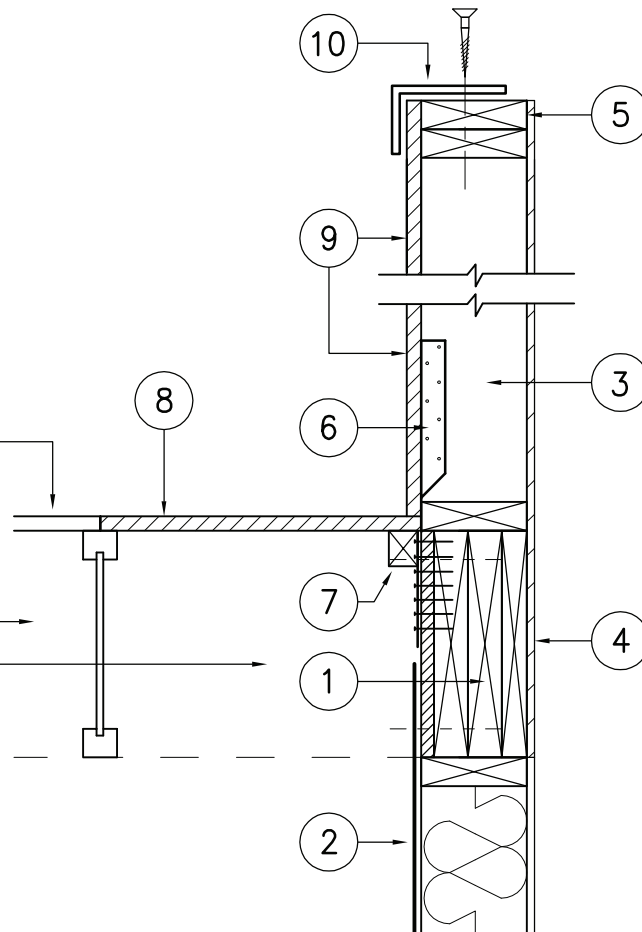
NOTE: PARAPET STUDS TO BE OFFSET FROM JOISTS BY 150mm TO ENSURE THAT MTS12 STRAP CAN BE FIXED.

NOTE: DETAIL APPLIES TO A MAXIMUM PARAPET HEIGHT OF 1300MM FROM TOP OF DECK. THOSE THAT EXCEED 1100MM REQUIRE ADDITIONAL WIND CHECK BY STRUCTURAL ENGINEER.

FLOORING GRADE BOARD
(COMMONLY 19MM
SERVICE CLASS 3 PLY)

JOIST (FJI JOIST SHOWN)

FLOOR ZONE INSULATION
OMITTED FOR CLARITY



ERECT SEQUENCE

1. FIX KERTO BLOCKINGS & PLY TO HEADER (IF NOT DONE IN FACTORY)
2. FIX HEADER BEAM TO EVERY STUD WITH LSTA18 STRAIGHT STRAP
3. FIX PANEL DOWN TO HEADER BEAM
4. FIX DOWNSAND SHEATHING TO OUTSIDE OF HEADER BEAM
5. FIX 38 x 140 TOP TIE RAIL
6. FIX 2 No. MTS12 TWIST STRAPS TO EVERY PARAPET STUD AT 300mm CENTRES AND DOWN FACE OF HEADER BEAM
7. FIX 38 x 47 NOGGIN TO INSIDE FACE OF BLOCKING (AT BOTH TOP & BOTTOM)
8. FIX 19mm PLY INFILL DECK
9. FIX 19mm UPSTAND PLY
10. IF PARAPET LENGTH IS GREATER THAN 4500MM – FIX ANGLE TO TOP OF RAIL WITH 10MM COACHSCREWS

PLEASE NOTE THAT THIS DETAIL IS A CONSTRUCTION AID AND SILVATEC CANNOT TAKE ANY RESPONSIBILITY FOR THIS DETAIL ON ANY PROJECT WHERE SILVATEC DESIGN HAVE NOT UNDERTAKEN THE ENGINEERING.



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DRAWING TITLE:
PARAPET FIXING – JOISTS PARALLEL

DRAWING No:
3.13

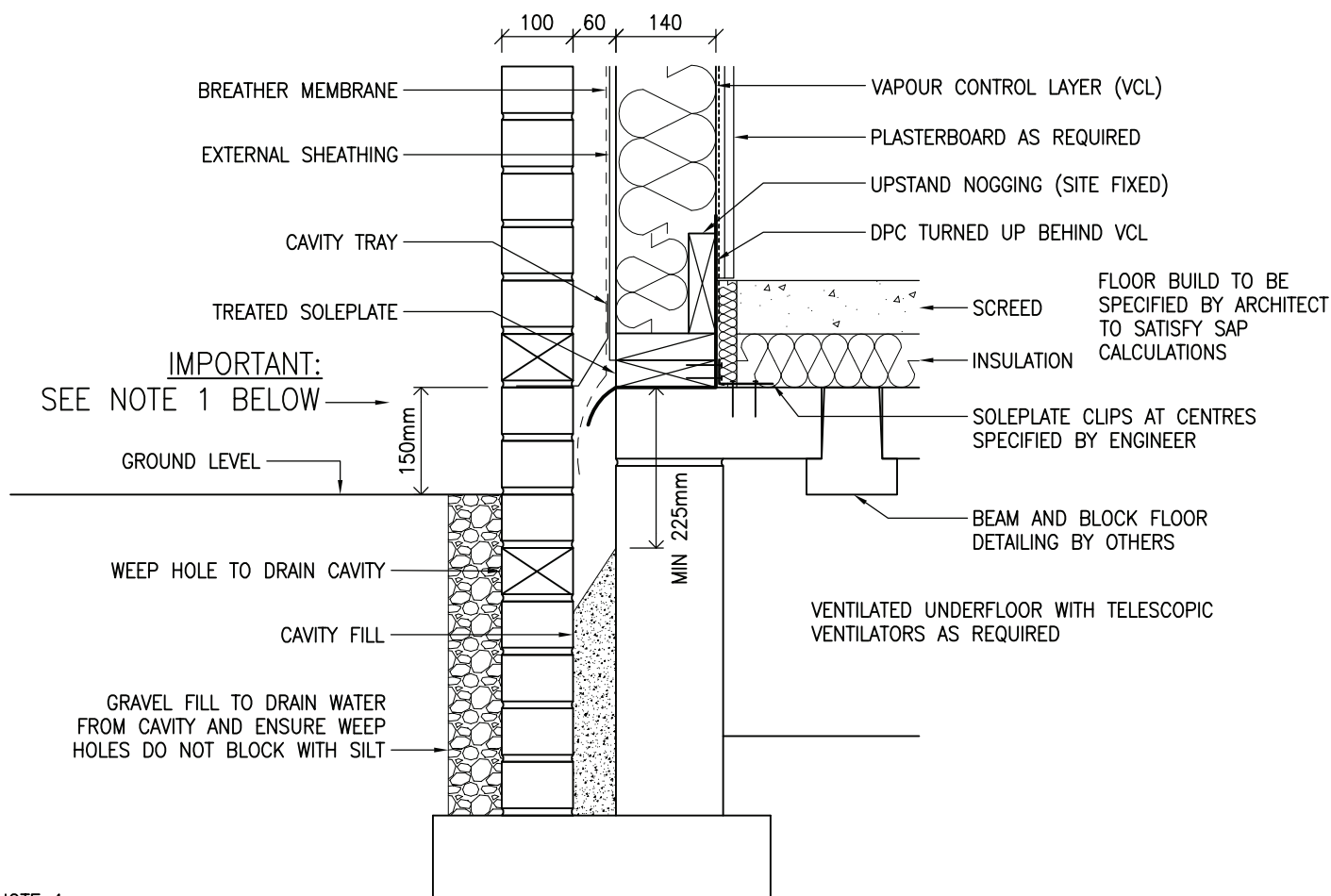
REVISION:
–

SCALE:
1:10

DRAWN BY:
T.ROBERTS

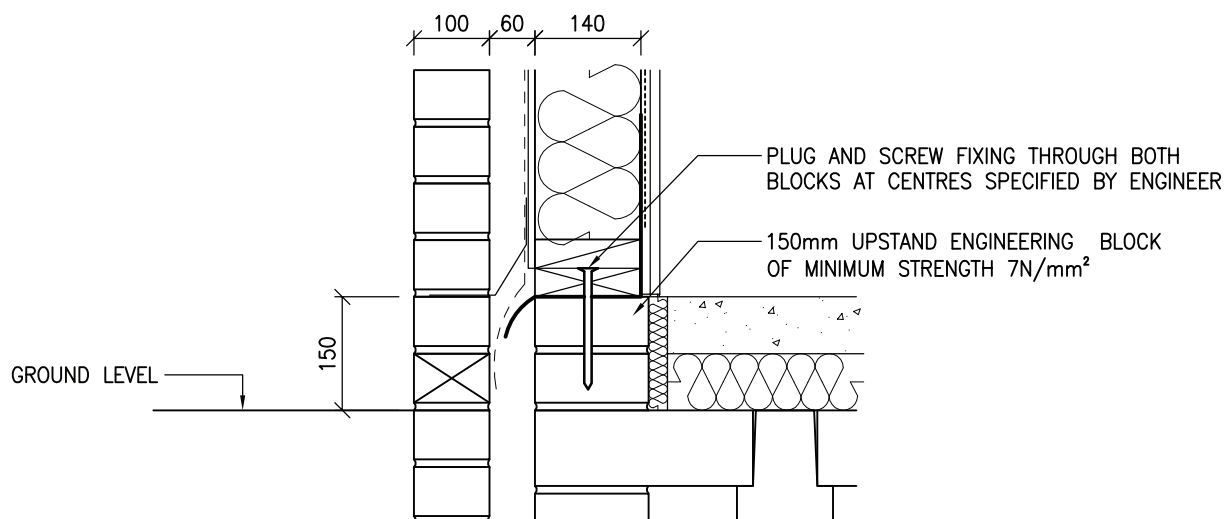
DATE:
DEC 08

ALL SOLEPLATES AT GROUND FLOOR LEVEL MUST HAVE A PRESERVATIVE TREATMENT IN ACCORDANCE WITH CURRENT STANDARDS



NOTE 1:
DPC SHOULD IDEALLY ALWAYS BE 150mm ABOVE THE EXTERNAL GROUND LEVEL. IN CASES WHERE THIS IS NOT POSSIBLE THIS DIMENSION CAN BE REDUCED TO A MINIMUM OF 75mm AS LONG AS THE CAVITY IS SUITABLY DRAINED, AS SHOWN ABOVE WITH A MINIMUM OF 225mm BETWEEN DPC AND DRAINAGE MEDIUM, WHERE THE SITE IS NOT SUBJECT TO A HIGH WATER TABLE OR WHERE THE CAVITY WILL NOT HAVE STANDING WATER. THE DETAILING OF THE CAVITY AND GROUND LEVELS ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER AND NOT THE TIMBER FRAME DESIGNER. THIS DETAIL SHOULD BE CLEARED WITH THE BUILDING WARRANTOR WHERE USED.

WHERE THE GROUND IS LEVEL TO THE TOP OF SLAB THE DETAIL BELOW IS TO BE USED BUT AGAIN MUST BE CHECKED WITH BUILDING WARRANTOR AND FOUNDATION DESIGNER.



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DRAWING TITLE:
EXTERNAL WALL – GROUND FLOOR

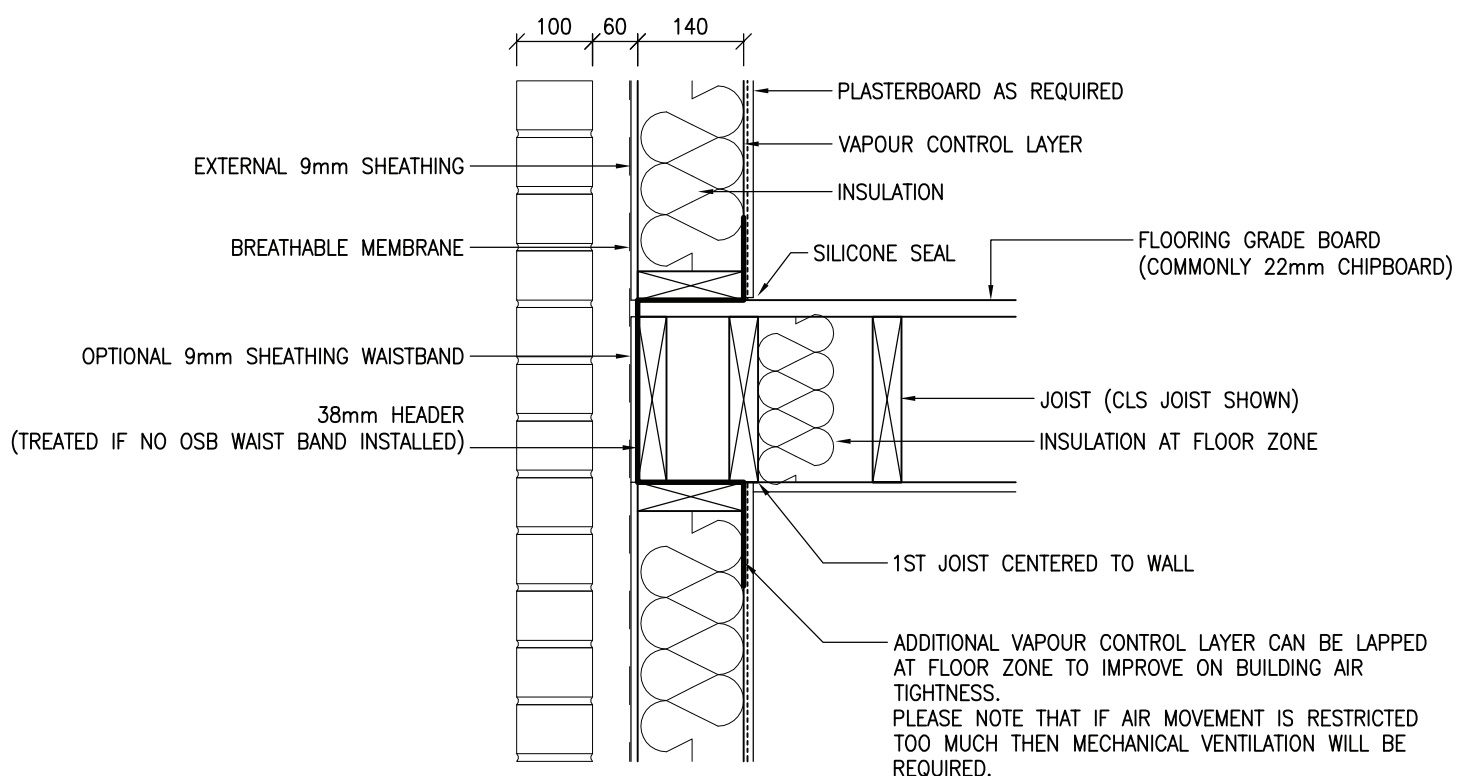
DRAWING No:
4.1

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



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E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
EXTERNAL WALL – INTERMEDIATE FLOOR
JOISTS PARALLEL

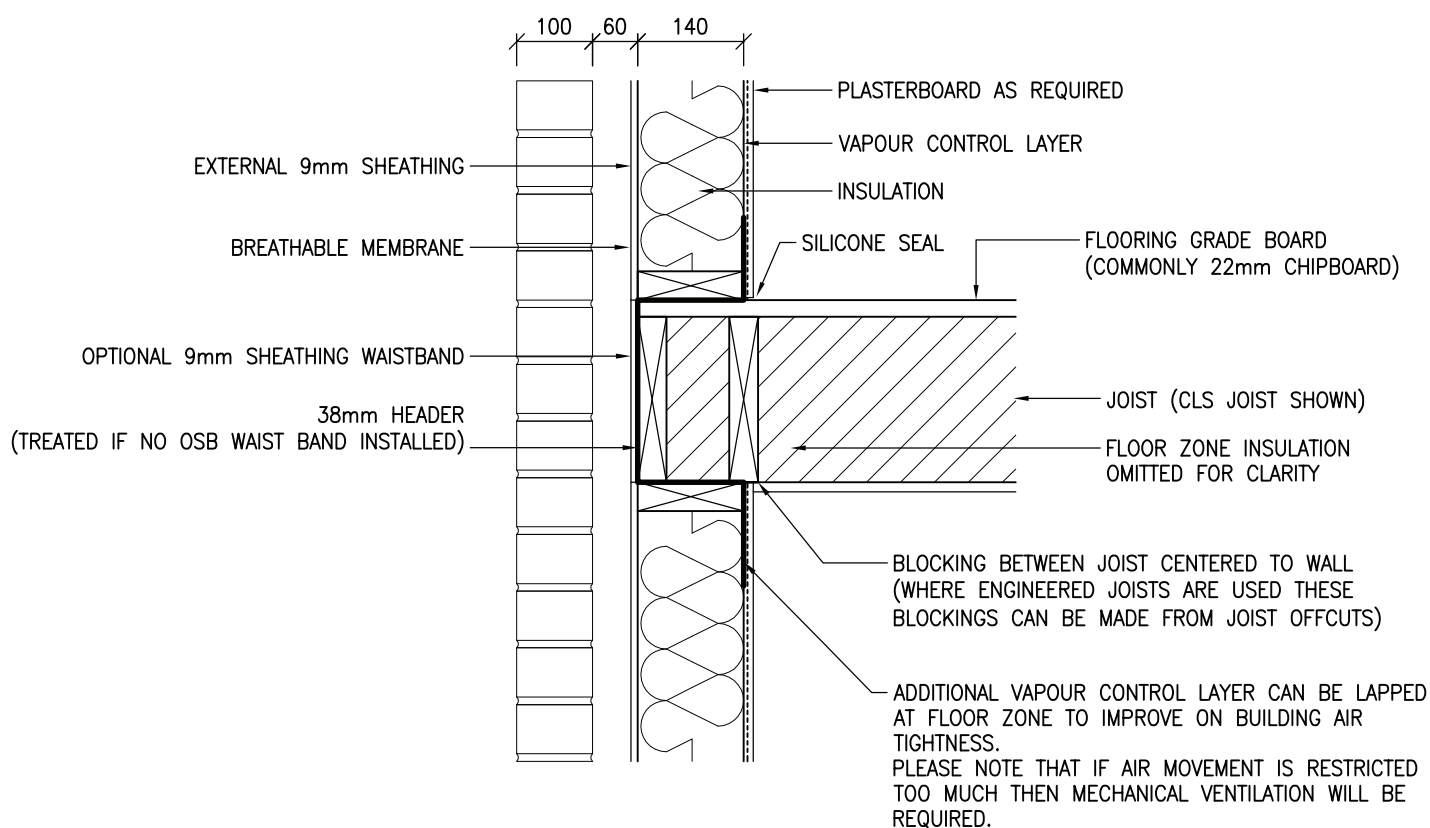
DRAWING No:
4.2

REVISION:
–

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



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DRAWING TITLE:
EXTERNAL WALL – INTERMEDIATE FLOOR
JOISTS PERPENDICULAR

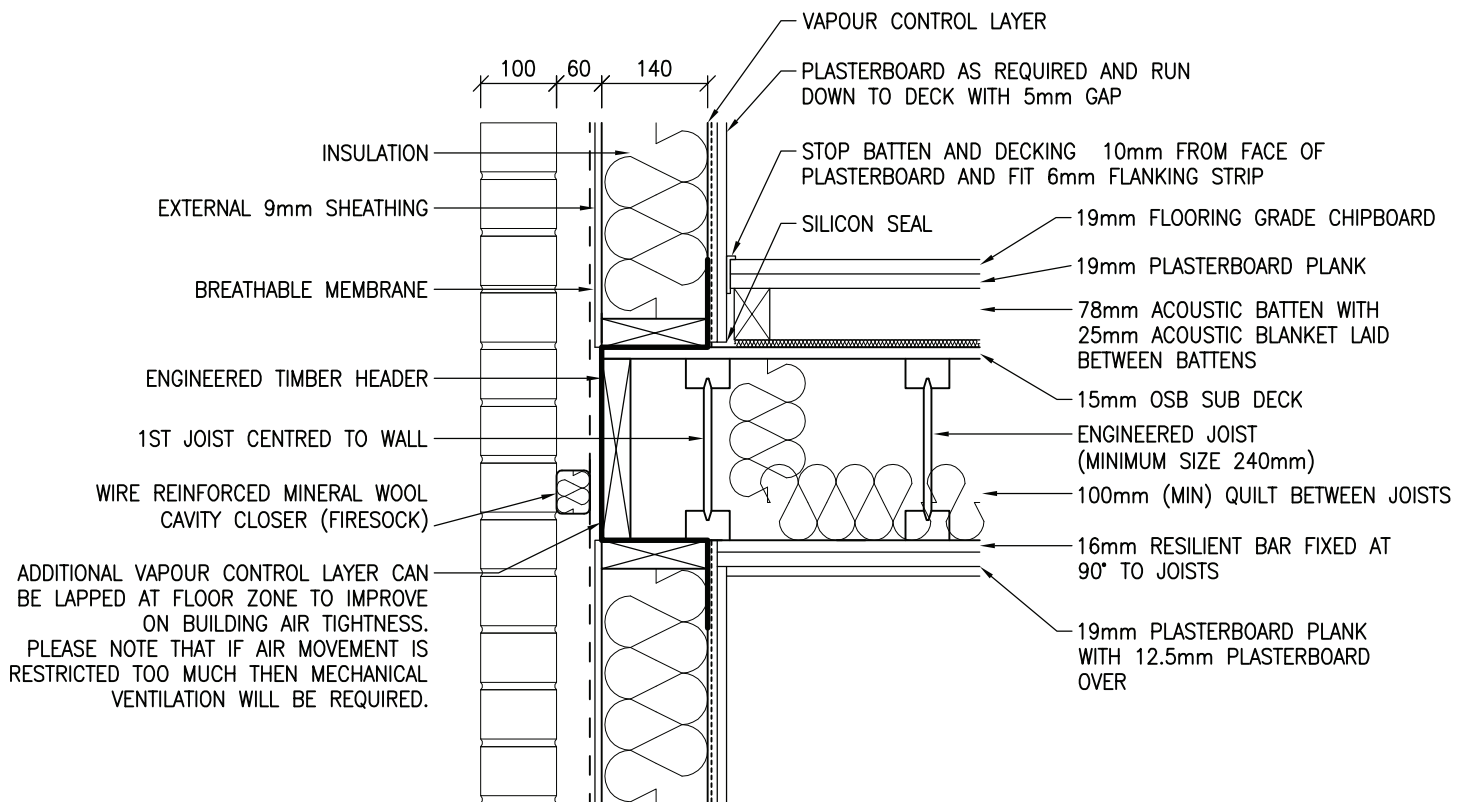
DRAWING No:
4.3

REVISION:
–

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



DETAILS SHOWN COMPLY TO E-FT-1 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

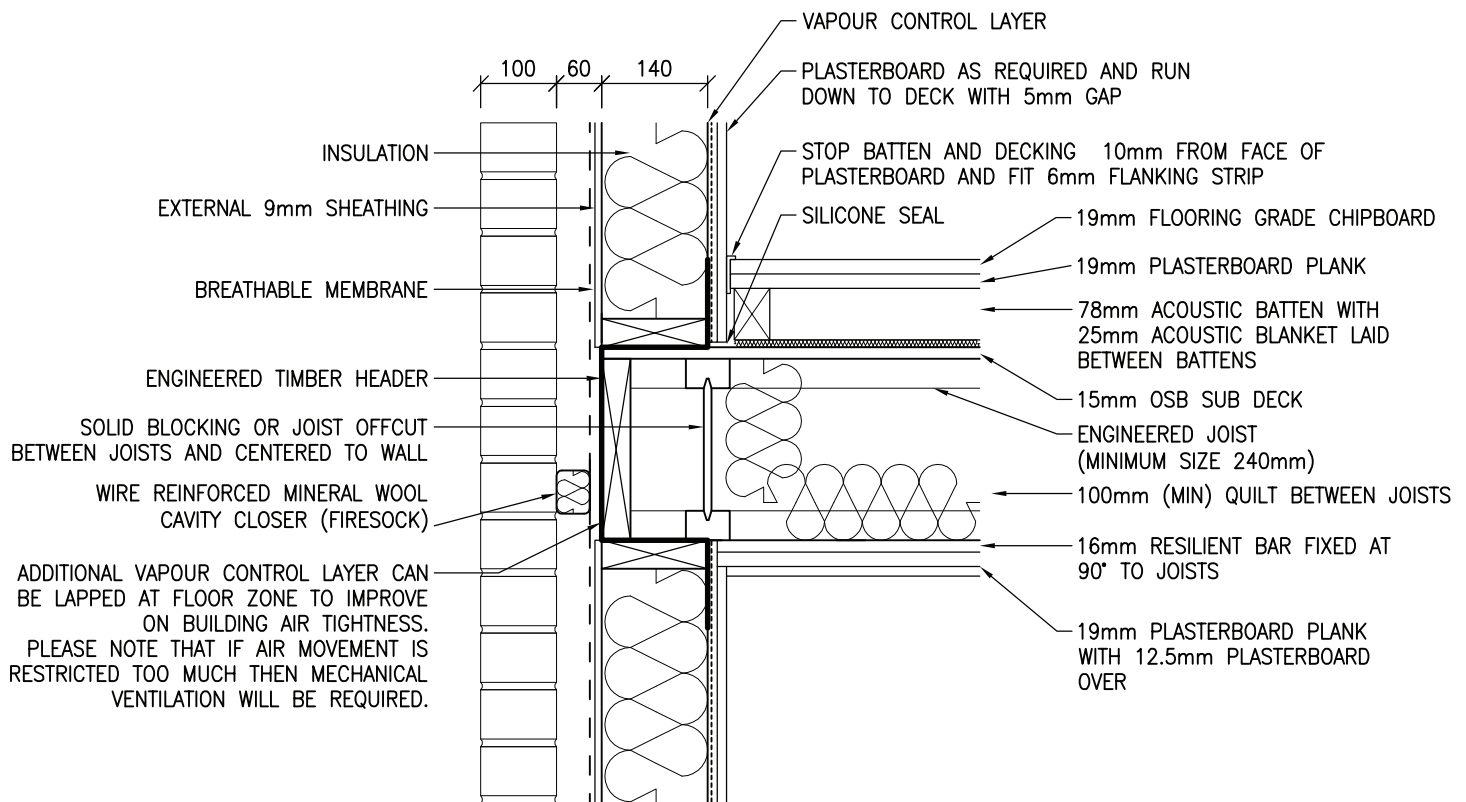


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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
'I' JOISTS PARALLEL

DRAWING No: 4.4	REVISION: –	SCALE: 1:10
DRAWN BY: T.KNIGHT	DATE: JAN 08	



DETAILS SHOWN COMPLY TO E-FT-1 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
'I' JOISTS PERPENDICULAR

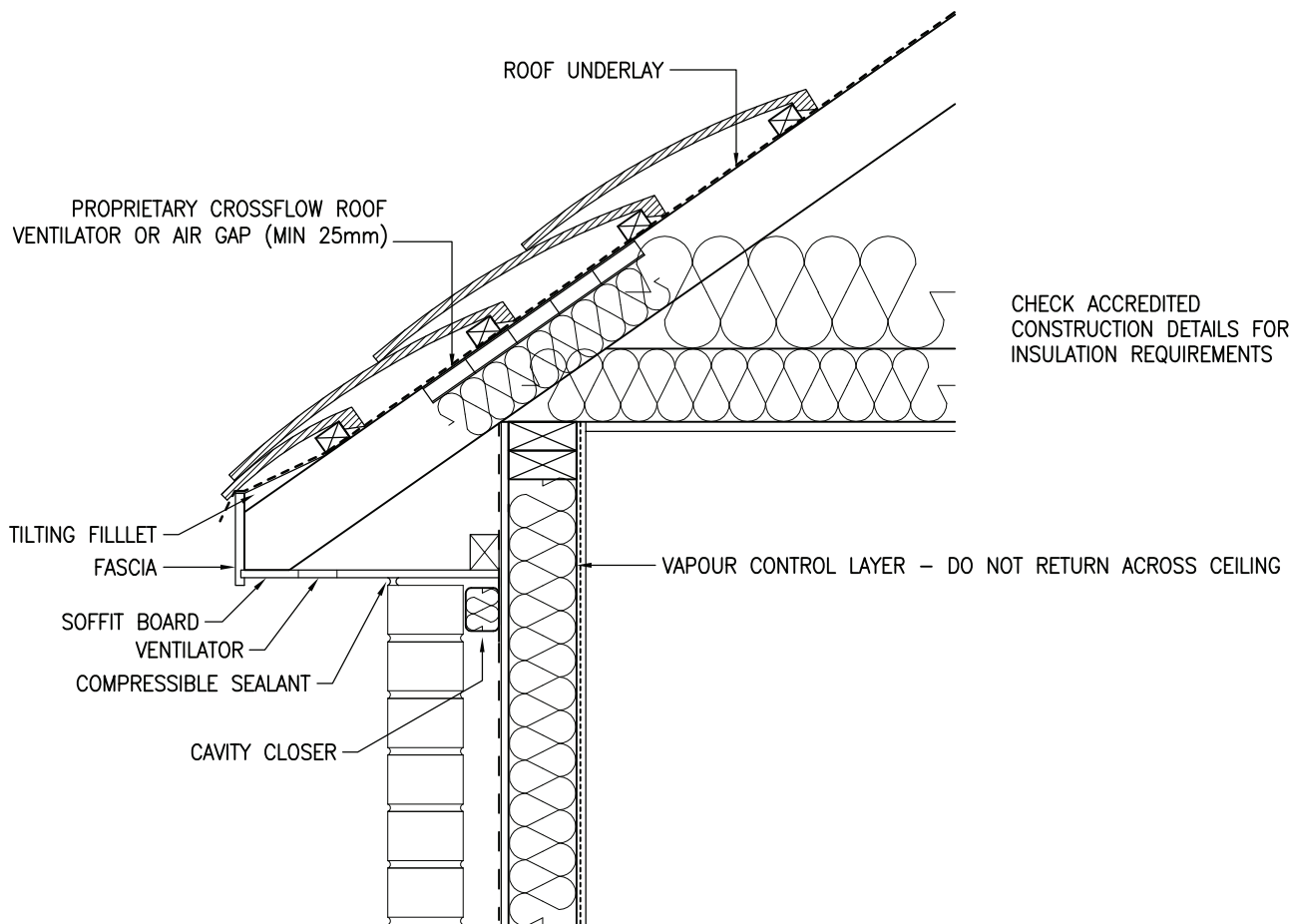
DRAWING No:
4.5

REVISION:
–

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



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FAX: 01483 770863
E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
EXTERNAL WALL - CEILING AT EAVES

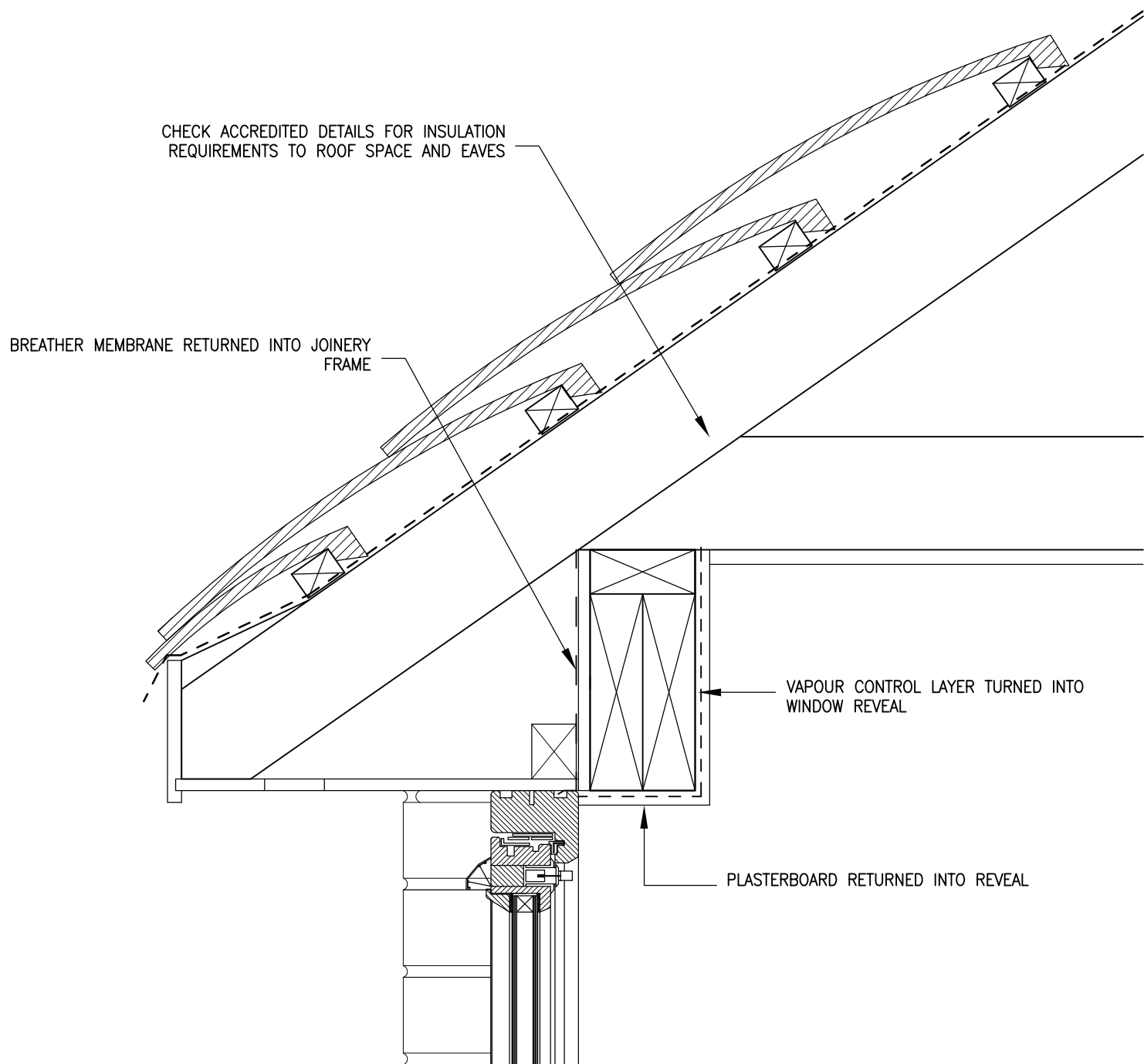
DRAWING No:
4.6

REVISION:
A

SCALE:
1:20

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



ENSURE WINDOW IS INSTALLED TIGHT AT THE HEAD WITH GAP AT BOTTOM OF WINDOW FRAME TO ALLOW FOR DIFFERENTIAL MOVEMENT DEPENDING UPON HEIGHT WITHIN BUILDING

WINDOW FRAME IS TO BE FIXED TO TIMBER FRAME WITH FRAME CRAMPS AND MUST REMAIN INDEPENDENT FROM MASONRY TO ALLOW FOR DIFFERENTIAL MOVEMENT



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FAX: 01483 770863
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DRAWING TITLE:
EXTERNAL WALL
EAVES AT WINDOW HEAD

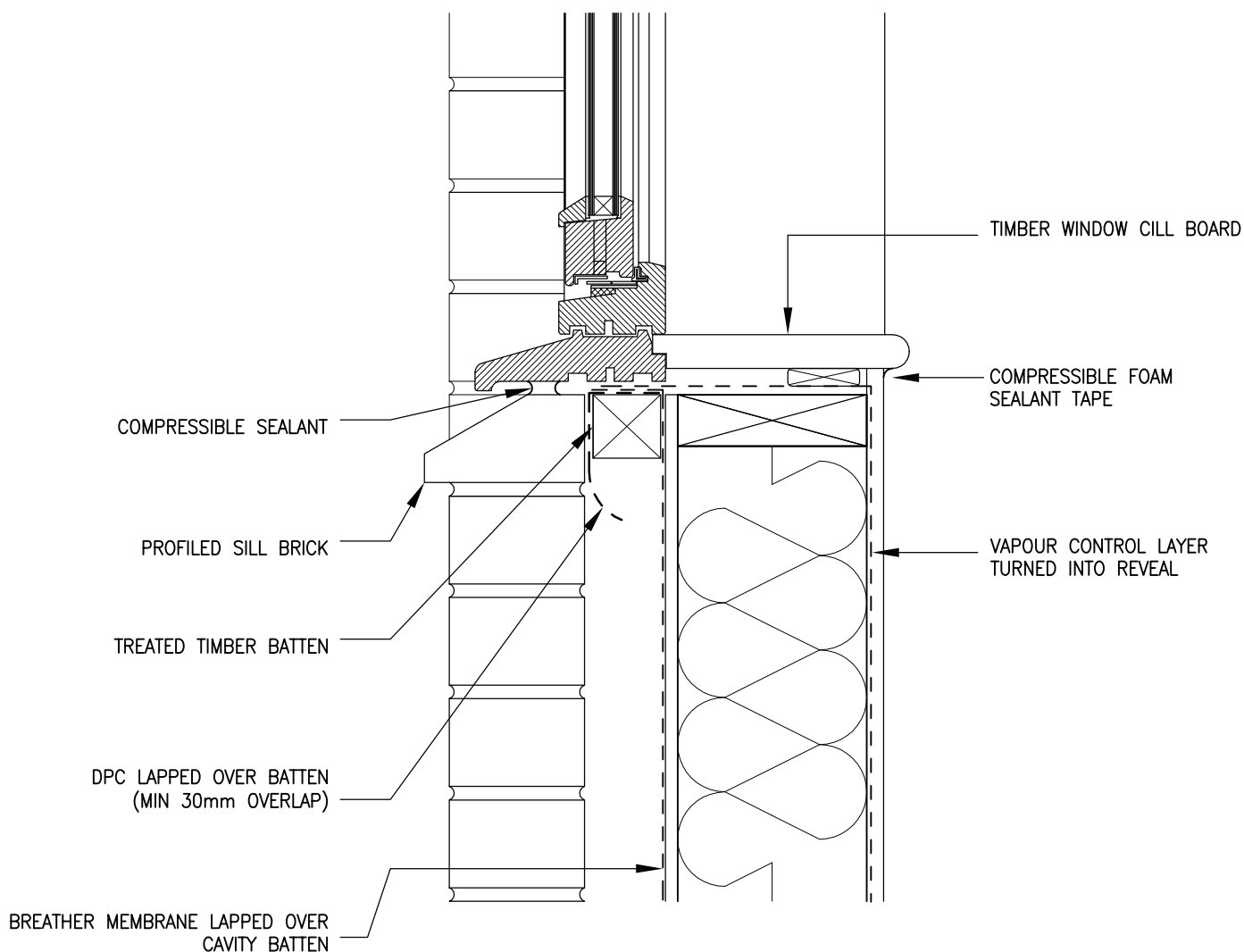
DRAWING No:
4.7

REVISION:
-

SCALE:
1:5

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



ENSURE WINDOW IS INSTALLED TIGHT AT THE HEAD WITH GAP AT BOTTOM OF WINDOW FRAME TO ALLOW FOR DIFFERENTIAL MOVEMENT DEPENDING UPON HEIGHT WITHIN BUILDING

WINDOW FRAME IS TO BE FIXED TO TIMBER FRAME WITH FRAME CRAMPS AND MUST REMAIN INDEPENDENT FROM MASONRY TO ALLOW FOR DIFFERENTIAL MOVEMENT



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E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
EXTERNAL WALL – WINDOW CILL

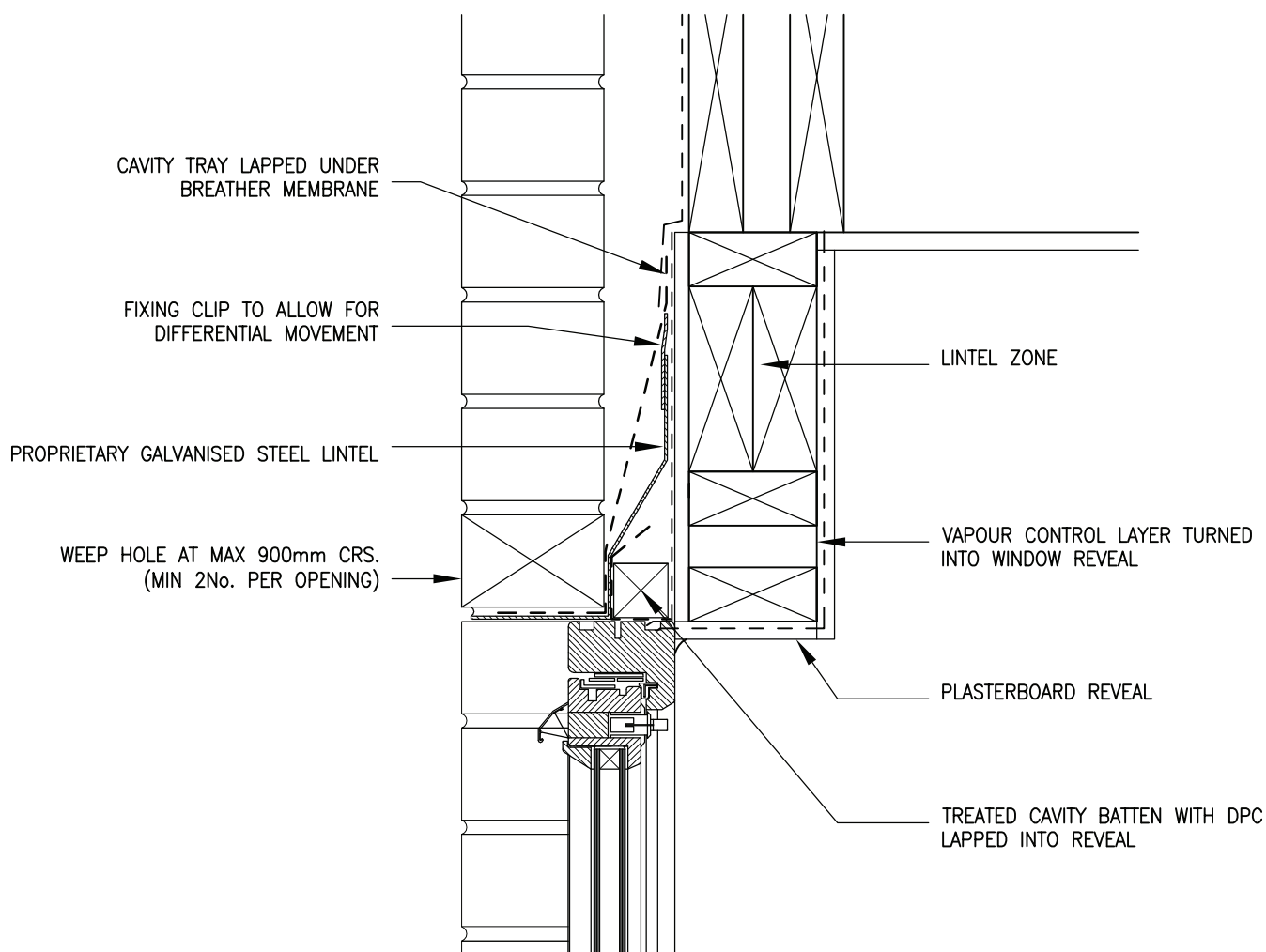
DRAWING No:
4.8

REVISION:
–

SCALE:
1:5

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



ENSURE WINDOW/DOOR IS INSTALLED TIGHT AT THE HEAD WITH GAP AT BOTTOM OF FRAME TO ALLOW FOR DIFFERENTIAL MOVEMENT DEPENDING UPON HEIGHT WITHIN BUILDING

JOINERY FRAME IS TO BE FIXED TO TIMBER FRAME WITH FRAME CRAMPS AND MUST REMAIN INDEPENDENT FROM MASONRY TO ALLOW FOR DIFFERENTIAL MOVEMENT



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DRAWING TITLE:
EXTERNAL WALL – JOINERY HEAD

DRAWING No:
4.9

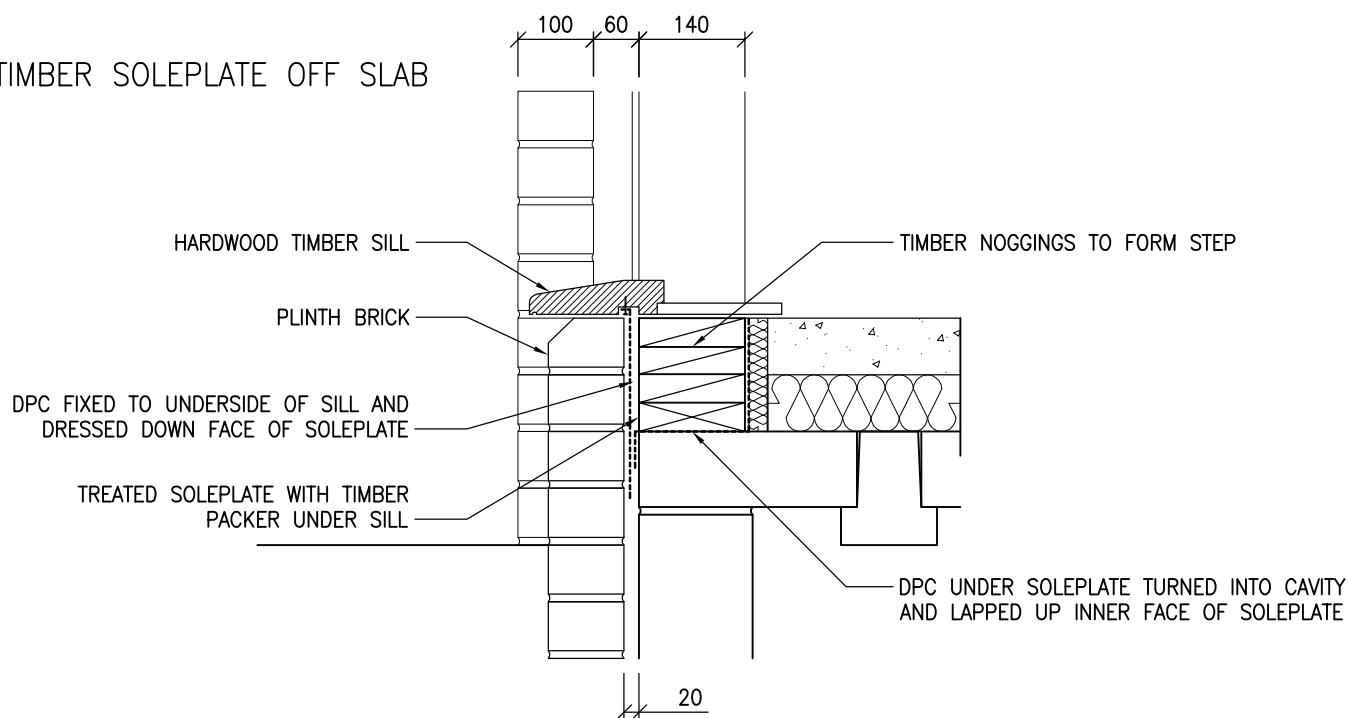
REVISION:
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SCALE:
1:5

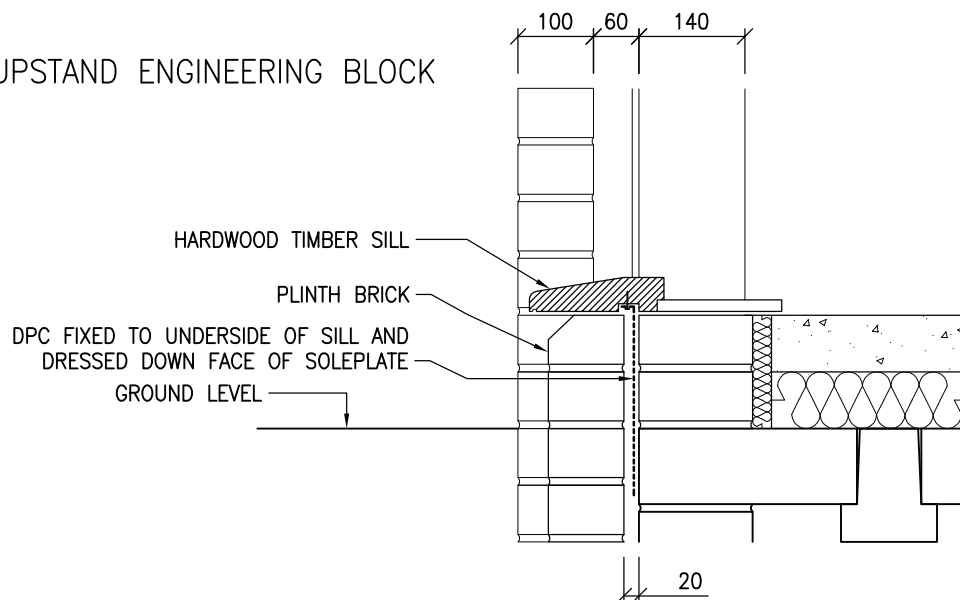
DRAWN BY:
T.KNIGHT

DATE:
JAN 08

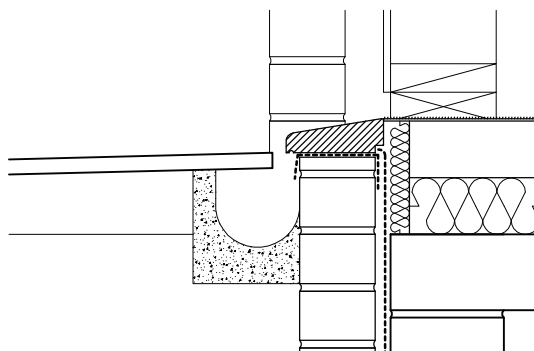
TIMBER SOLEPLATE OFF SLAB



UPSTAND ENGINEERING BLOCK



WHEN A FLUSH THRESHOLD IS REQUIRED ENSURE
SUITABLE DRAINAGE IS ALLOWED FOR TO KEEP THE
MOISTURE AWAY FROM ANY TIMBERS



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DRAWING TITLE:
EXTERNAL WALL – DOOR THRESHOLD

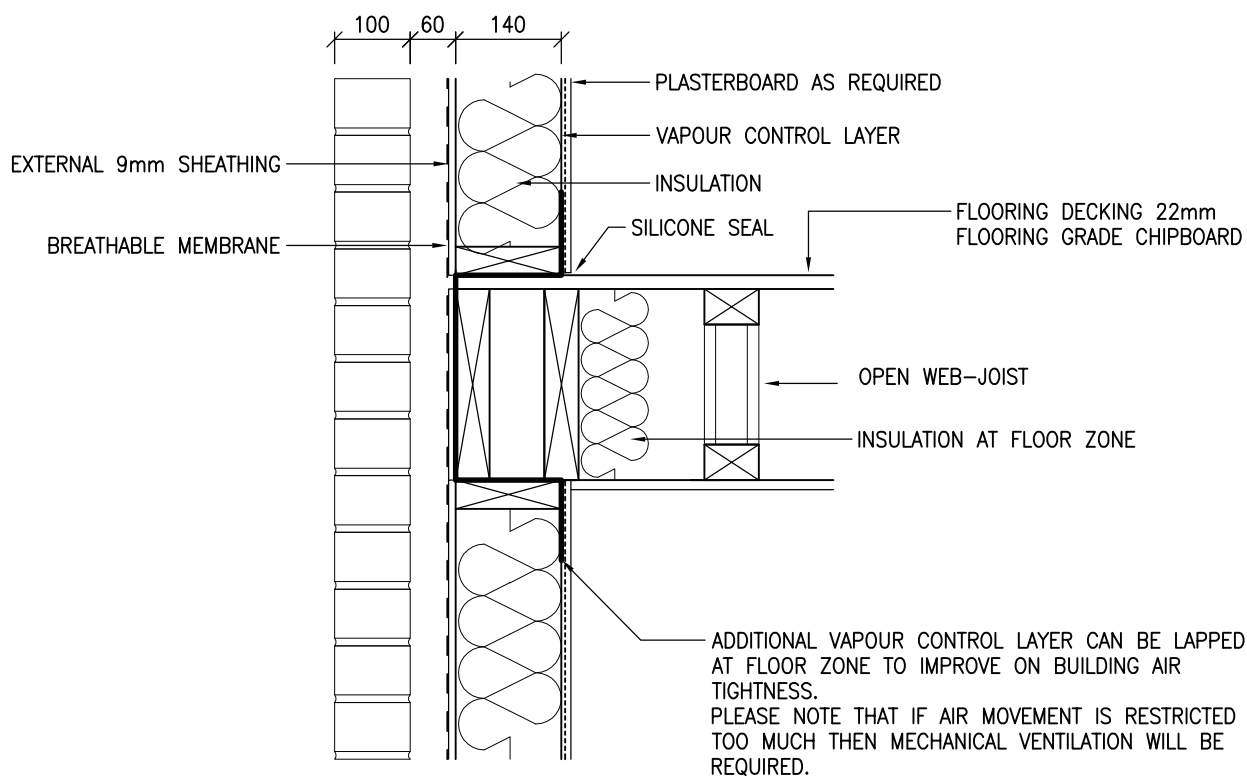
DRAWING No:
4.10

REVISION:
–

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



Building 1 Grosvenor Court
Hiple Street
Old Woking
SURREY
GU22 9LL

TEL: 01483 769518

FAX: 01483 770863

E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
INTERMEDIATE FLOOR
OPEN WEB JOIST PARALLEL

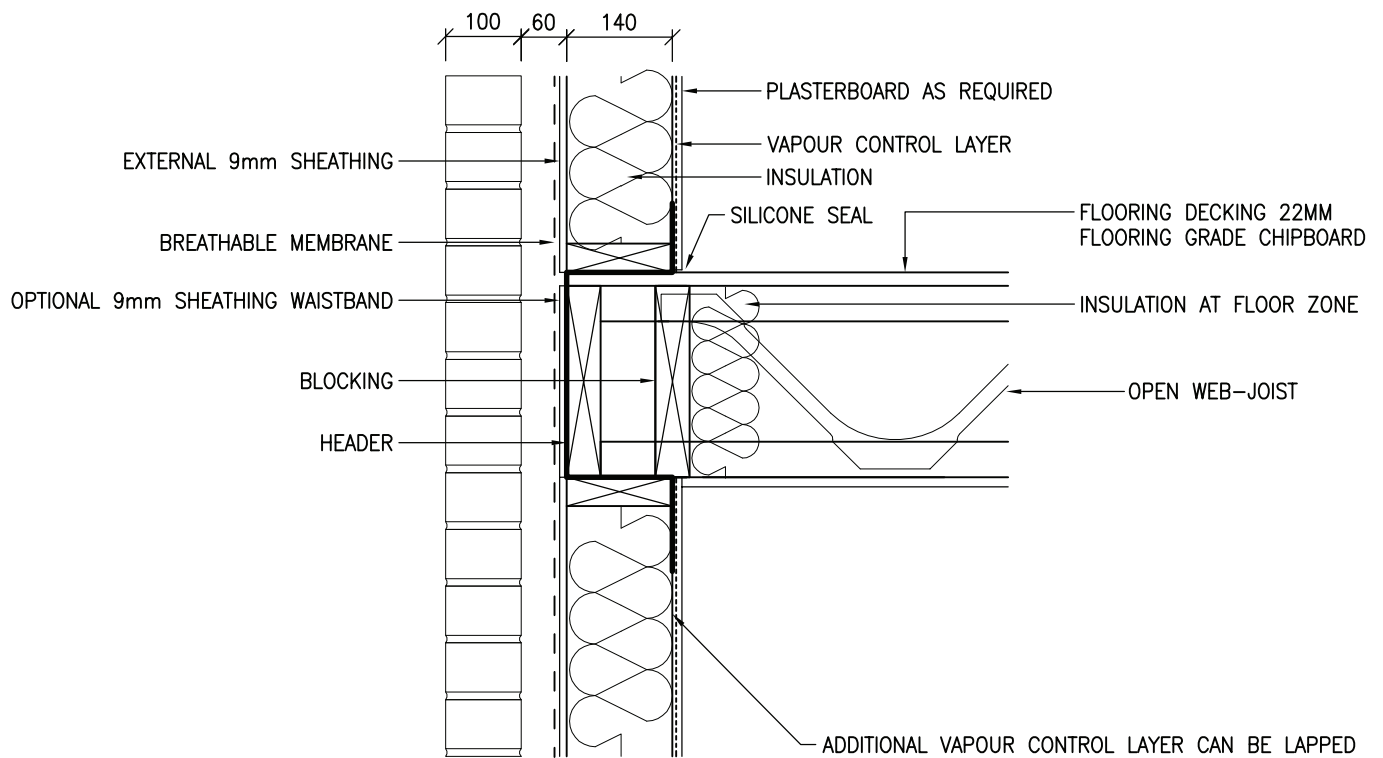
DRAWING No:
4.11

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



ADDITIONAL VAPOUR CONTROL LAYER CAN BE LAPPED AT FLOOR ZONE TO IMPROVE ON BUILDING AIR TIGHTNESS.
PLEASE NOTE THAT IF AIR MOVEMENT IS RESTRICTED TOO MUCH THEN MECHANICAL VENTILATION WILL BE REQUIRED.

NOTE: JOISTS CAN ALSO BE TOP CHORD/FLANGE SUPPORTED



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DRAWING TITLE:
INTERMEDIATE FLOOR
OPEN WEB JOIST PERPENDICULAR

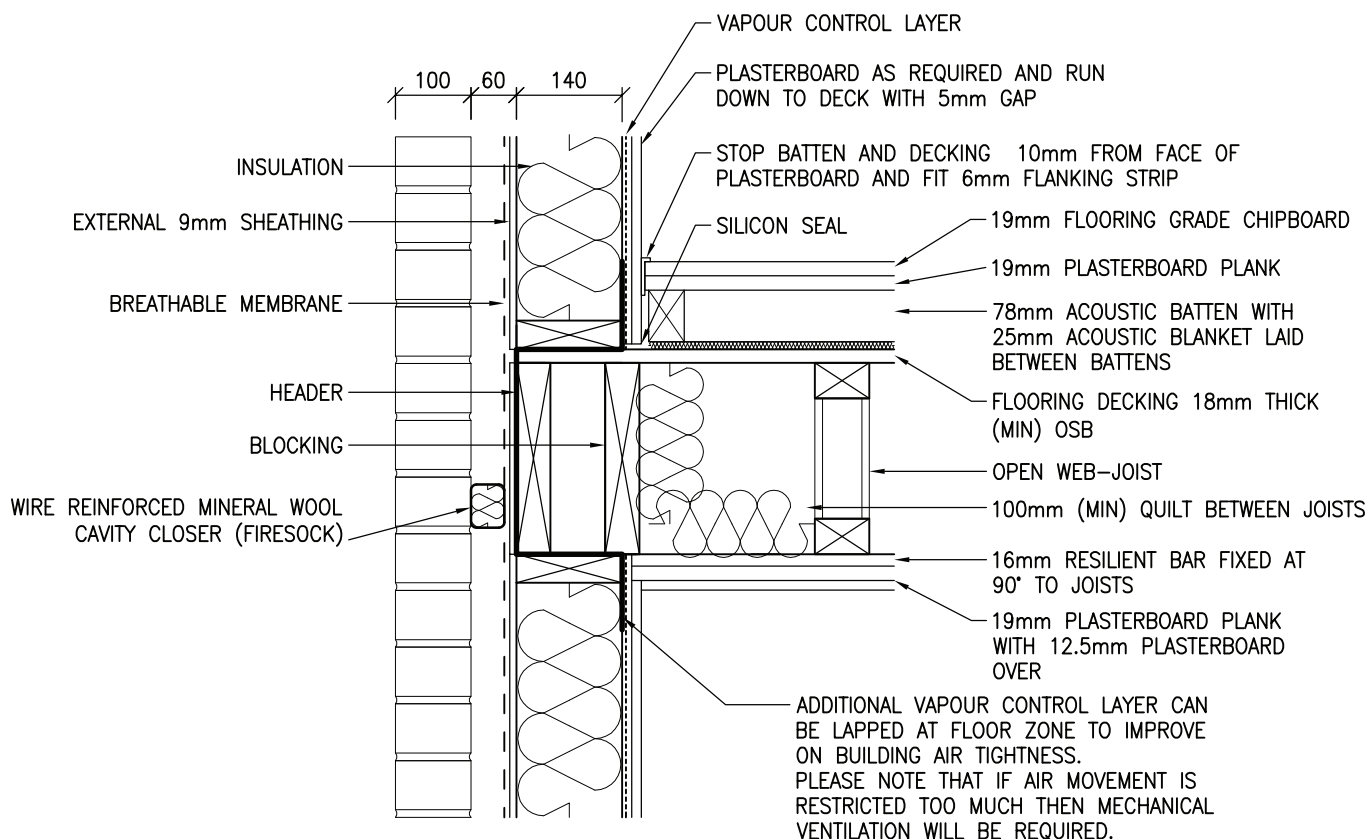
DRAWING No:
4.12

REVISION:
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SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



DETAILS SHOWN COMPLY TO E-FT-3 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
COMPARTMENT FLOOR
OPEN WEB JOIST PARALLEL

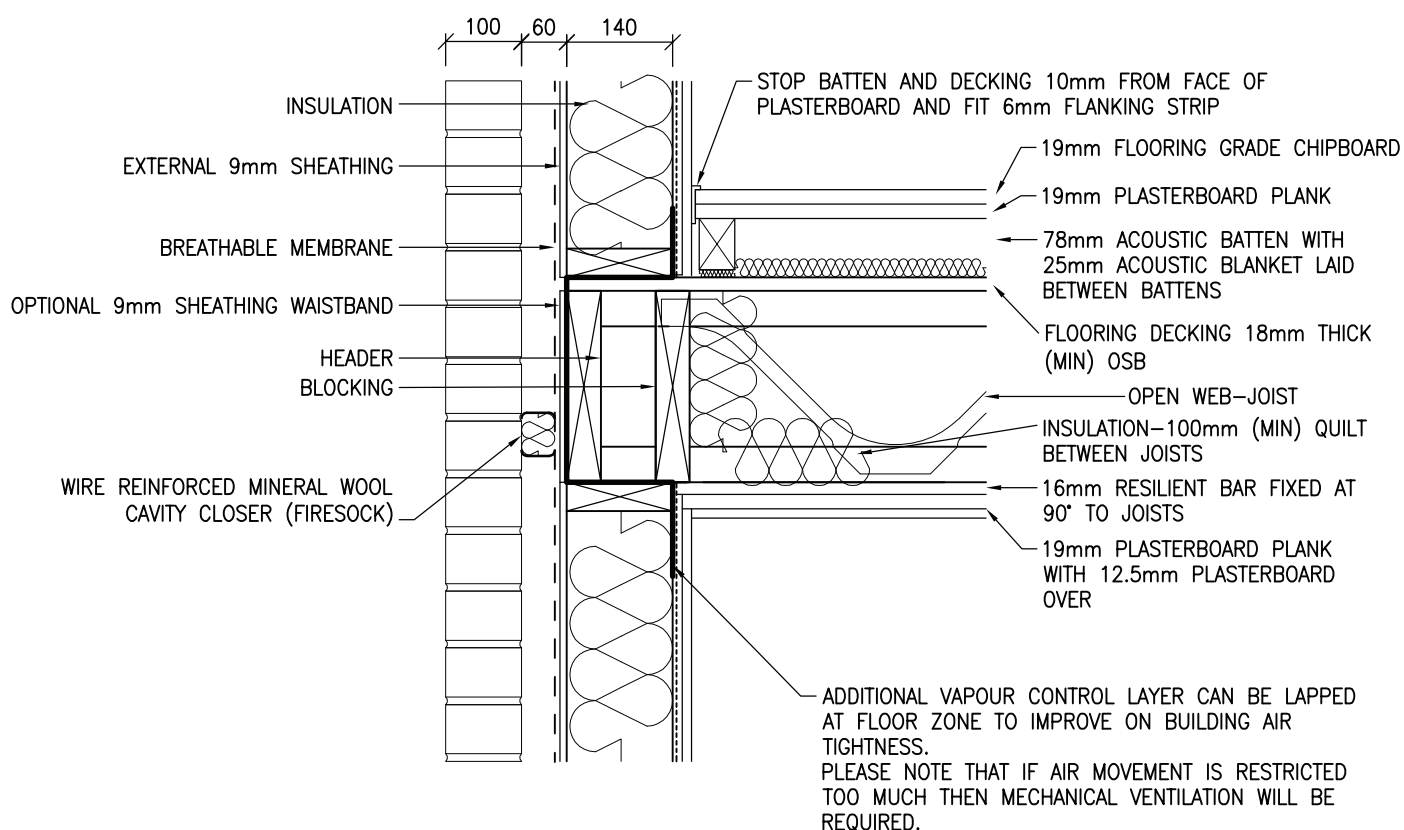
DRAWING No:
4.13

REVISION:
B

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



NOTE: JOISTS CAN ALSO BE TOP CHORD/FLANGE SUPPORTED

DETAILS SHOWN COMPLY TO E-FT-3 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
COMPARTMENT FLOOR
OPEN WEB JOIST PERPENDICULAR

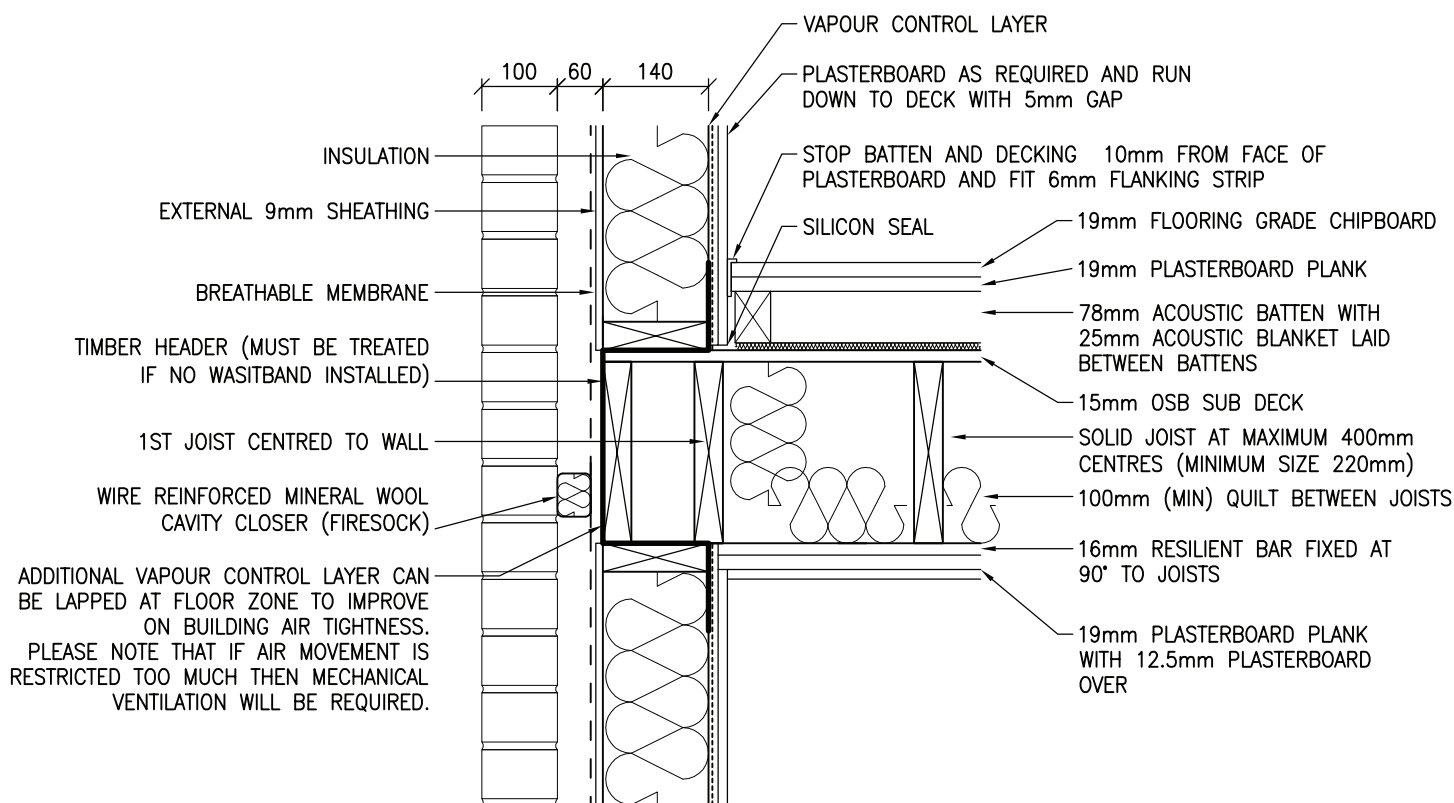
DRAWING No:
4.14

REVISION:
B

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



DETAILS SHOWN COMPLY TO E-FT-2 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
SOLID JOISTS PARALLEL

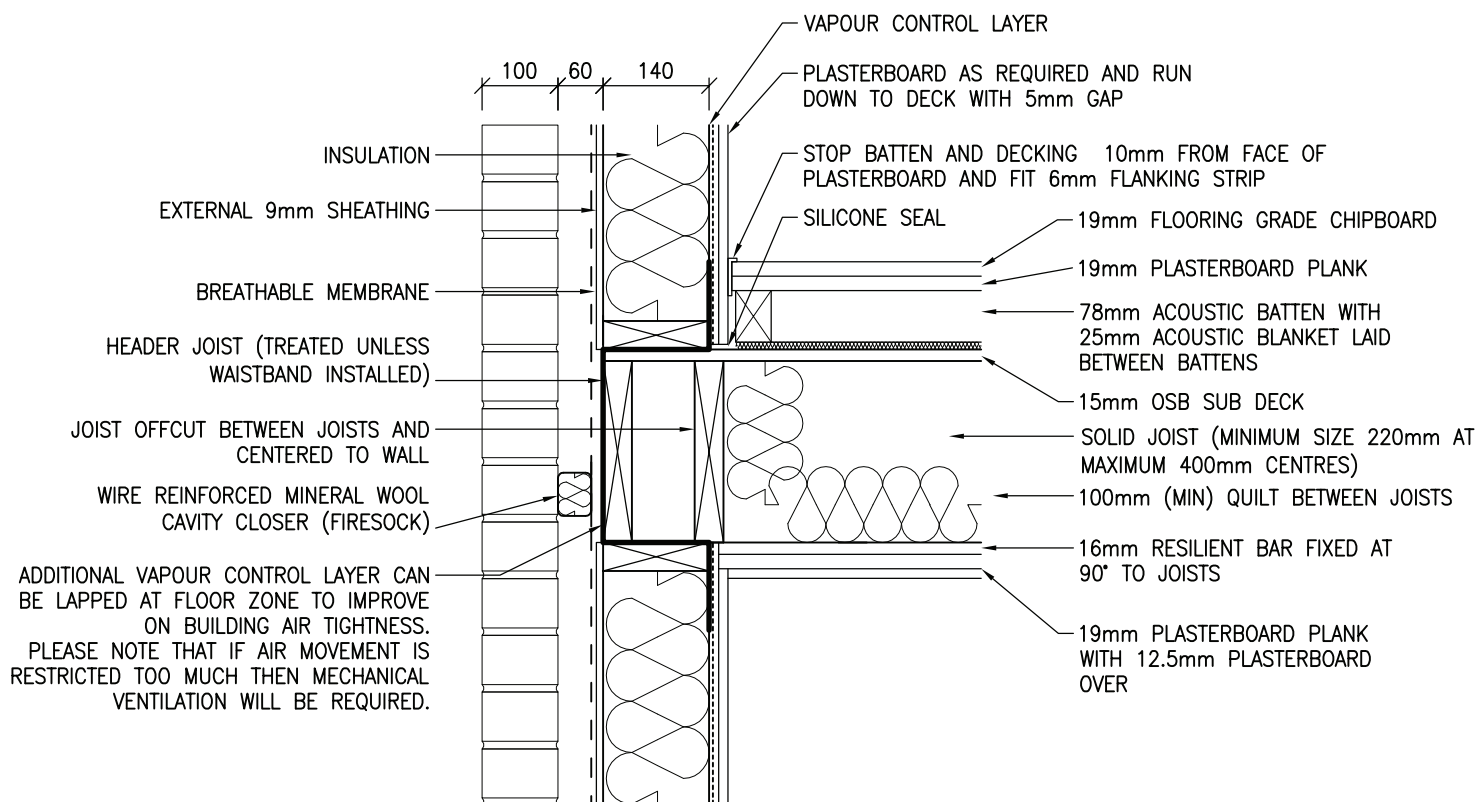
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4.15

REVISION:
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SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



DETAILS SHOWN COMPLY TO E-FT-2 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
SOLID JOISTS PERPENDICULAR

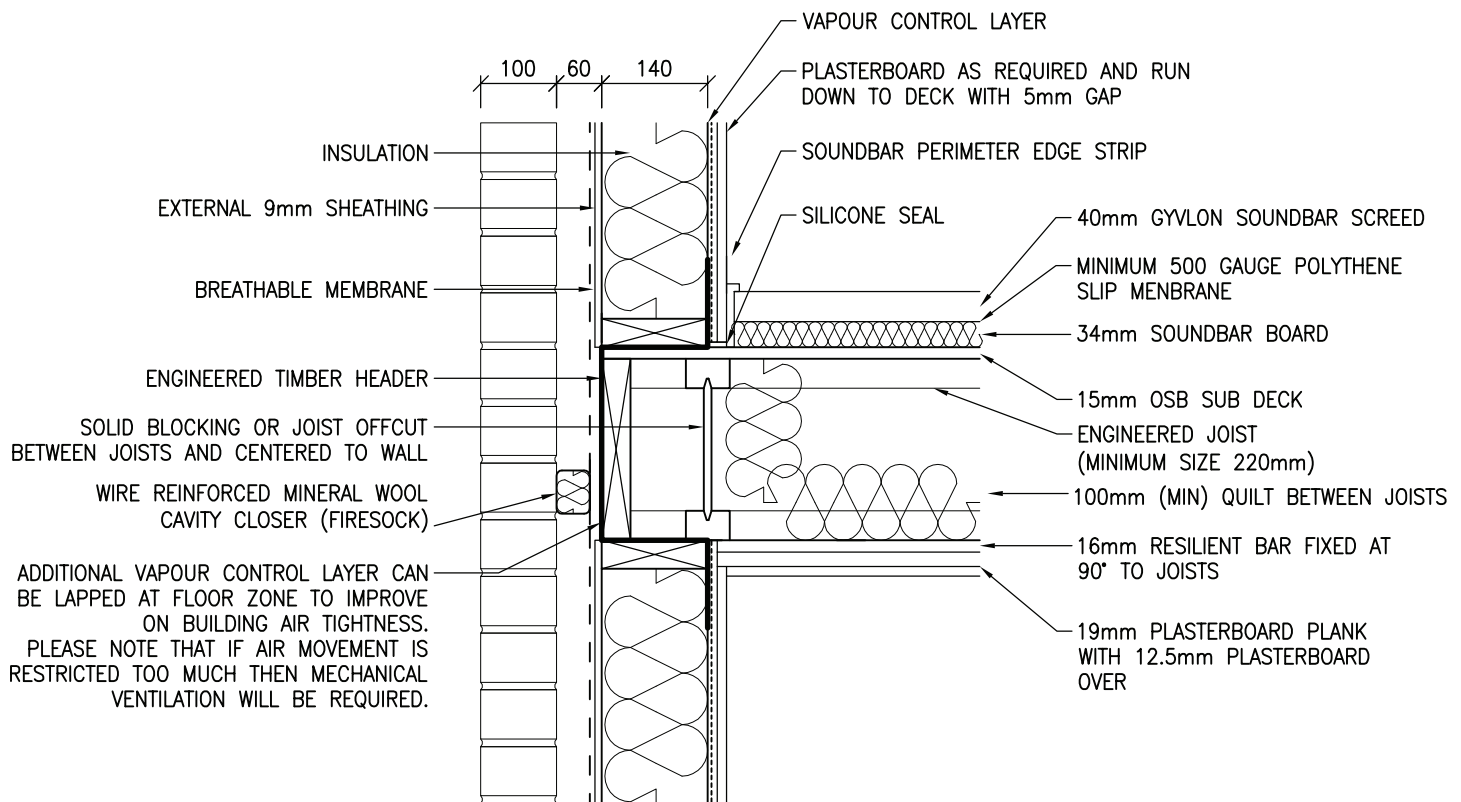
DRAWING No:
4.16

REVISION:
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SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



DETAILS SHOWN COMPLY TO E-FT-4 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

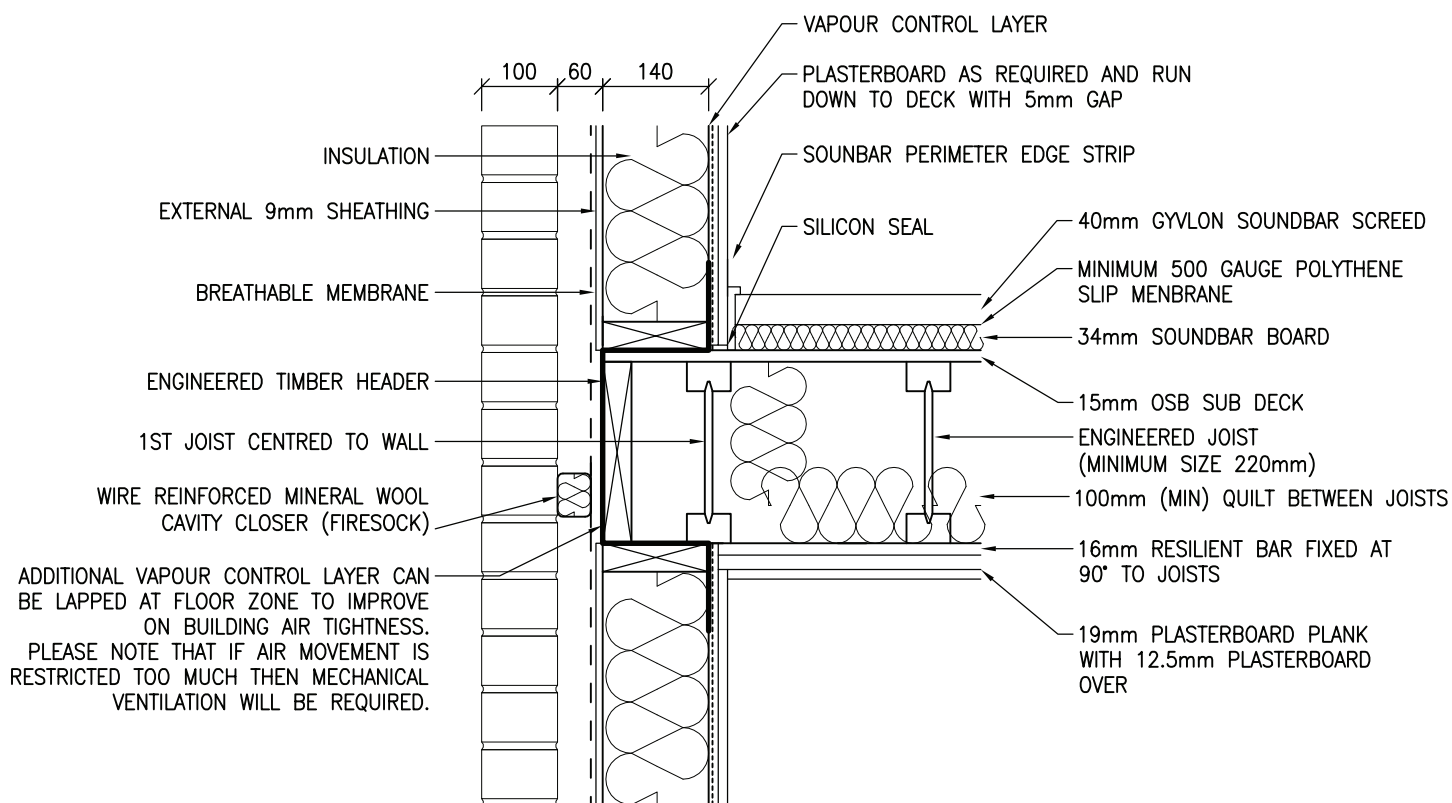


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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
WITH SCREED AND JOISTS PERPENDICULAR

DRAWING No: 4.17	REVISION: –	SCALE: 1:10
DRAWN BY: M.SINGLIAR	DATE: NOV 08	



DETAILS SHOWN COMPLY TO E-FT-4 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
WITH SCREED AND JOISTS PARALLEL

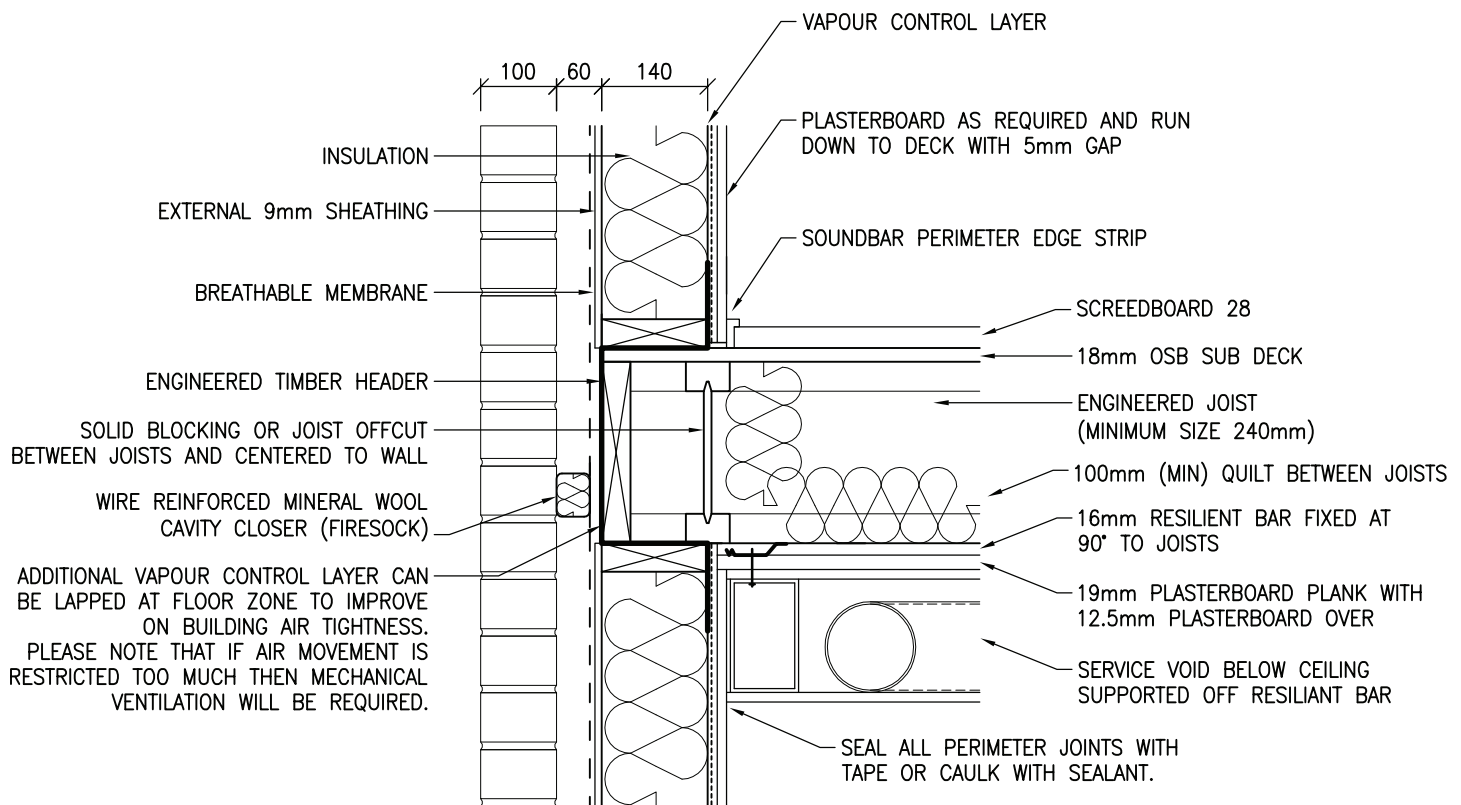
DRAWING No:
4.18

REVISION:
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SCALE:
1:10

DRAWN BY:
M.SINGLIAR

DATE:
NOV 08



DETAILS SHOWN COMPLY TO E-FT-5 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
WITH SCREEDBOARD AND JOISTS PERPENDICULAR

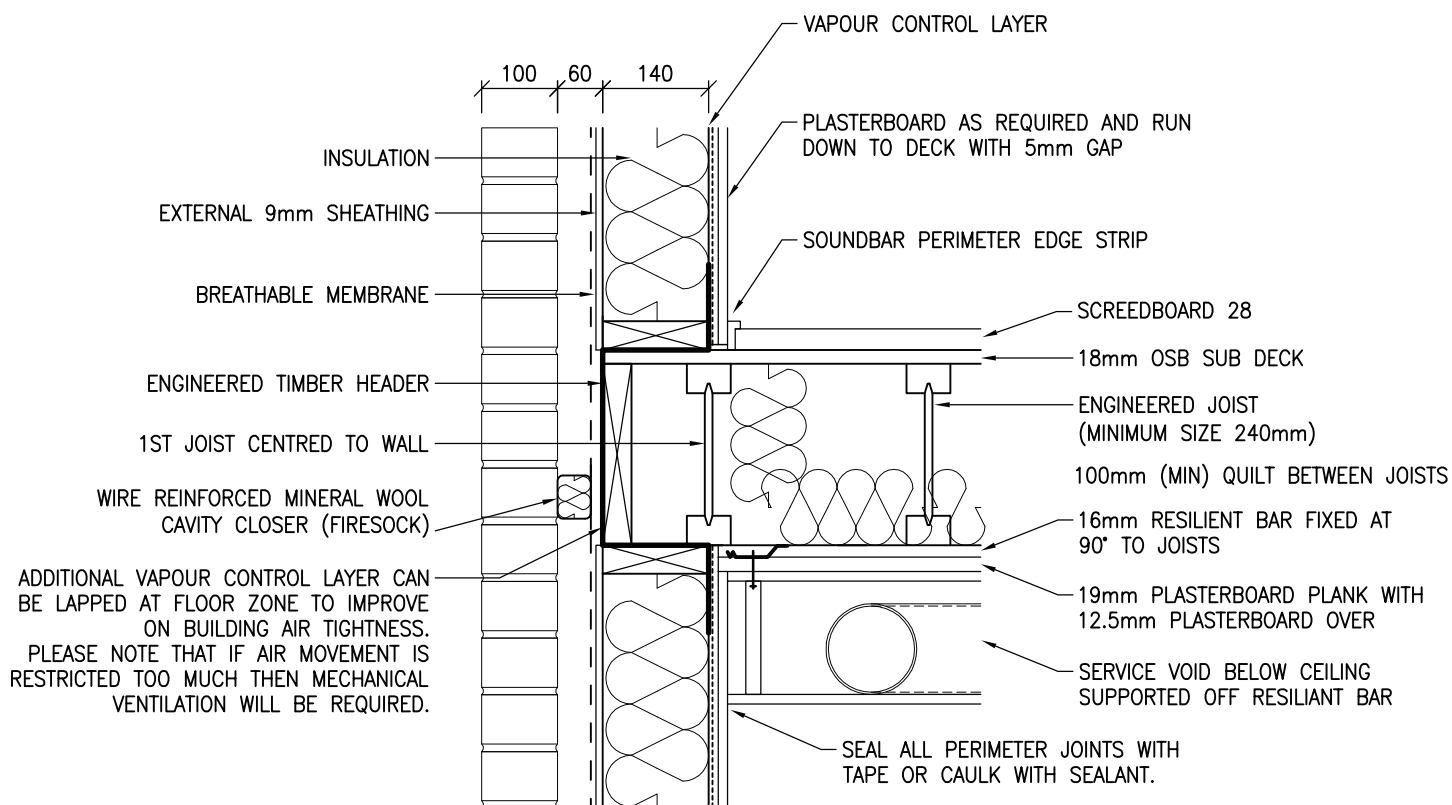
DRAWING No:
4.19

REVISION:
–

SCALE:
1:10

DRAWN BY:
T.ROBERTS

DATE:
SEPT 09



DETAILS SHOWN COMPLY TO E-FT-5 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.



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DRAWING TITLE:
EXTERNAL WALL – COMPARTMENT FLOOR
WITH SCREEDBOARD AND JOISTS PARALLEL

DRAWING No:
4.20

REVISION:
–

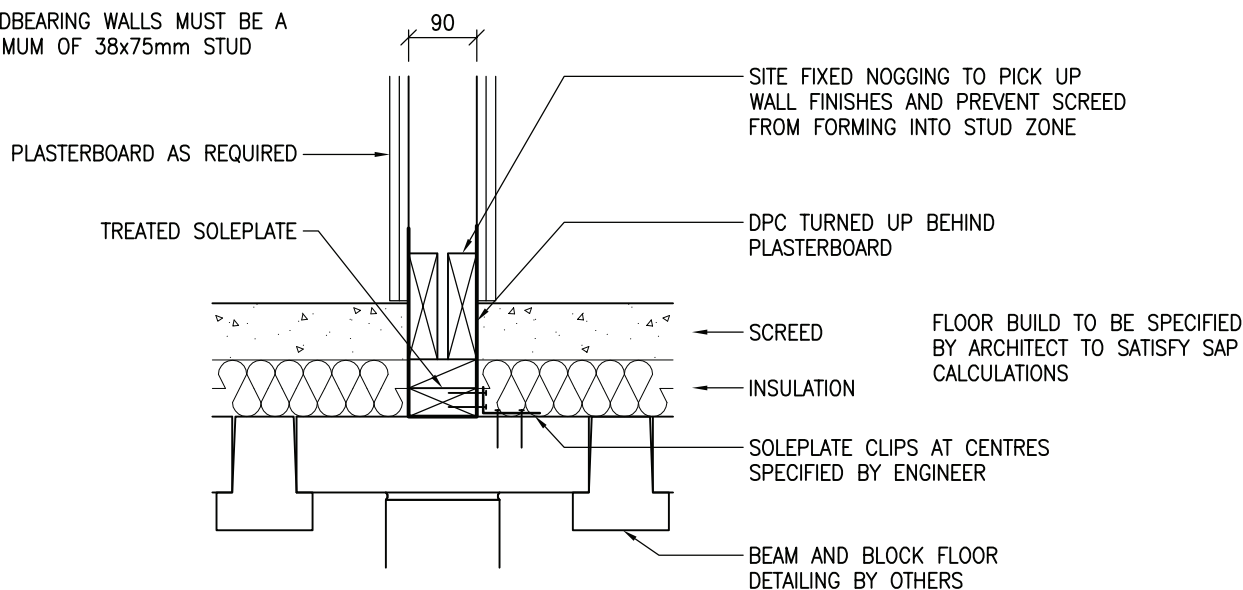
SCALE:
1:10

DRAWN BY:
T.ROBERTS

DATE:
SEPT 09

ALL SOLEPLATES AT GROUND FLOOR LEVEL MUST HAVE A PRESERVATIVE TREATMENT IN ACCORDANCE WITH CURRENT STANDARDS

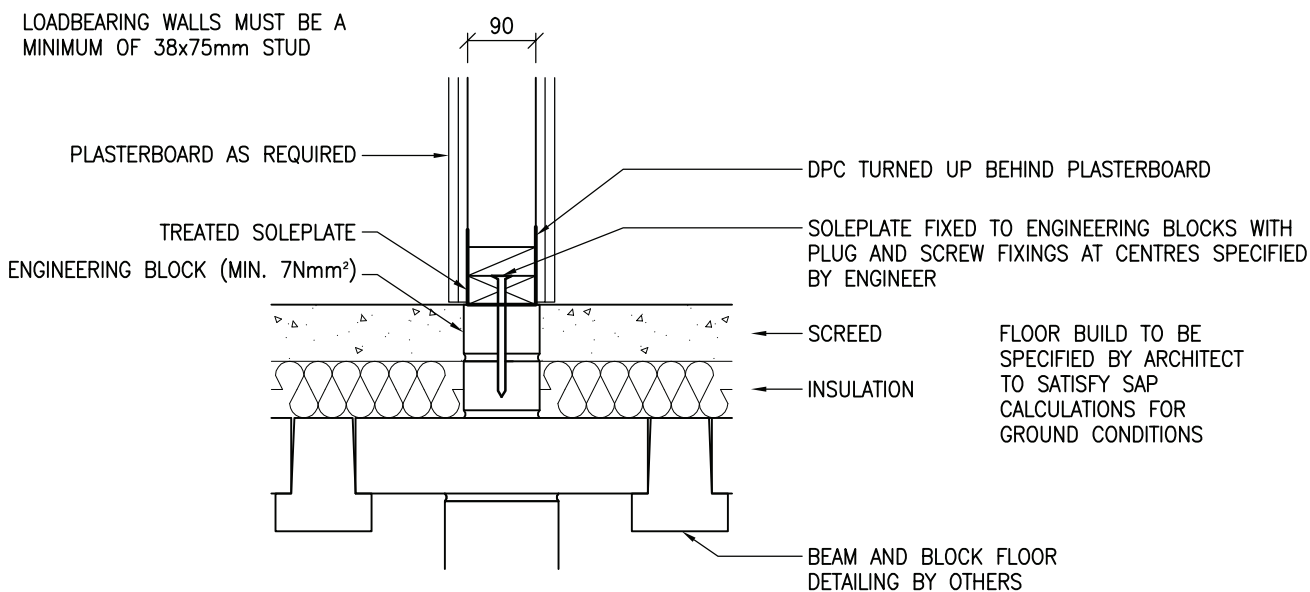
LOADBEARING WALLS MUST BE A MINIMUM OF 38x75mm STUD



DPC SHOULD IDEALLY ALWAYS BE 150mm ABOVE THE EXTERNAL GROUND LEVEL. IN CASES WHERE THIS IS NOT POSSIBLE THIS DIMENSION CAN BE REDUCED TO A MINIMUM OF 75mm AS LONG AS THE CAVITY IS SUITABLY DRAINED AS SHOWN IN DETAIL 4.1 (EXTERNAL WALL – GROUND FLOOR). THE DETAILING OF THE CAVITY AND GROUND LEVELS ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER AND NOT THE TIMBER FRAME DESIGNER. THIS DETAIL SHOULD BE CLEARED WITH BUILDING WARRANTOR WHERE USED.

WHERE THE GROUND IS LEVEL TO THE TOP OF SLAB THE DETAIL BELOW IS TO BE USED BUT AGAIN SHOULD BE CHECKED WITH BUILDING WARRANTOR AND FOUNDATION DESIGNER.

LOADBEARING WALLS MUST BE A MINIMUM OF 38x75mm STUD



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DRAWING TITLE:
INTERNAL WALL – GF LOADBEARING

DRAWING No:
5.1

REVISION:
A

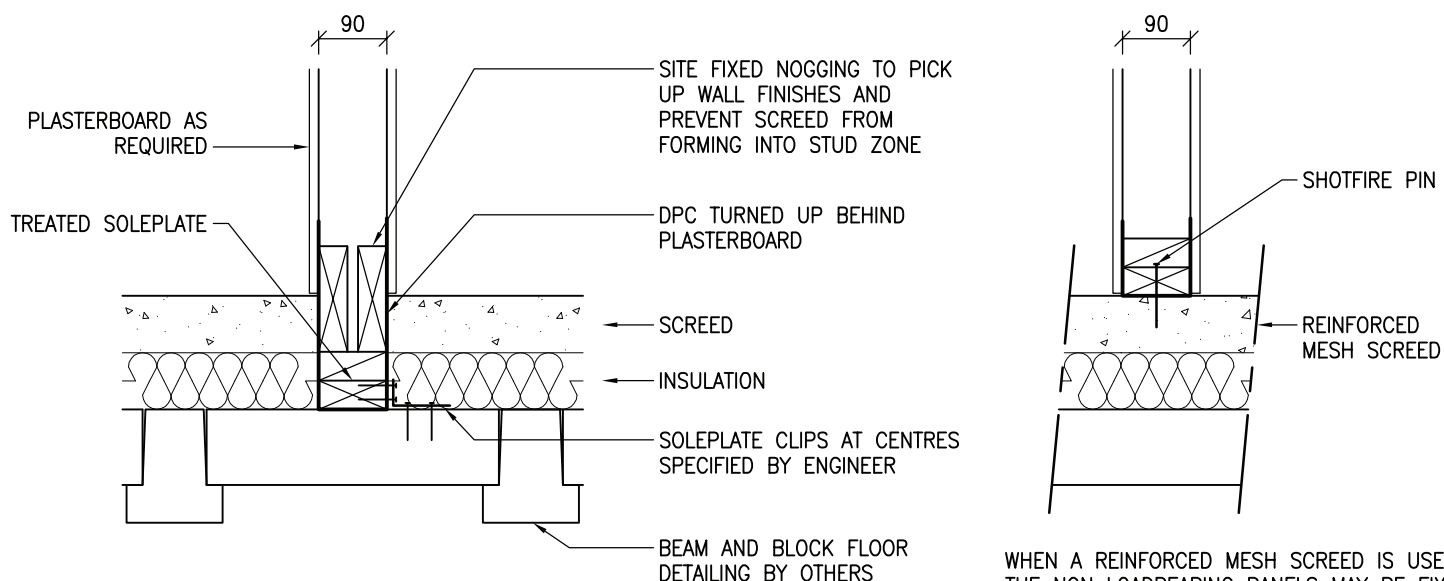
SCALE:
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DRAWN BY:
T.KNIGHT

DATE:
JAN 08

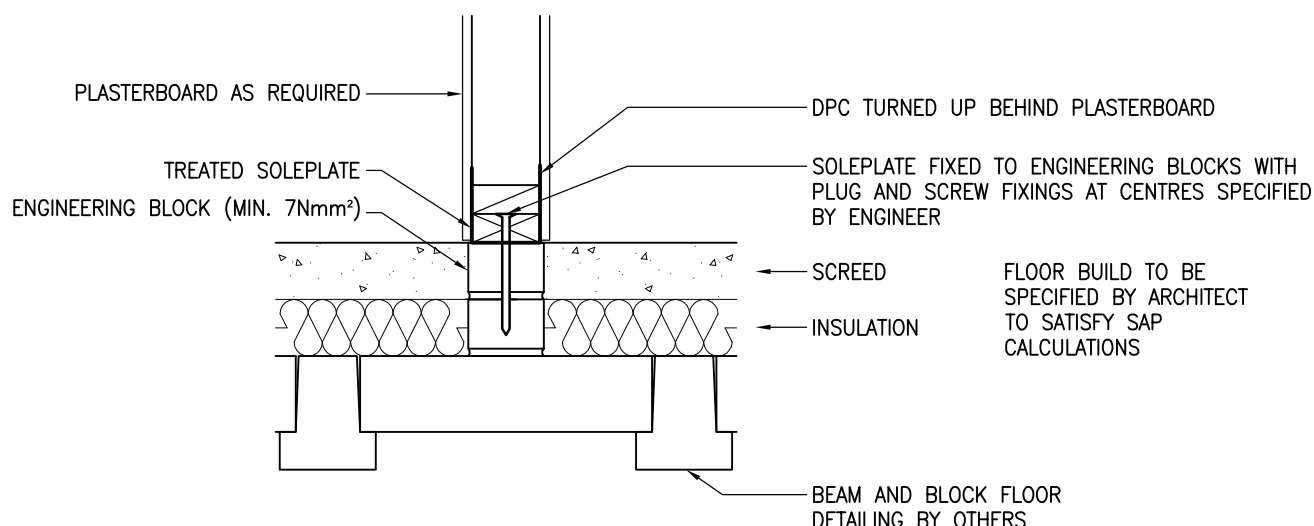
ALL SOLEPLATES AT GROUND FLOOR LEVEL MUST HAVE A PRESERVATIVE TREATMENT IN ACCORDANCE WITH CURRENT STANDARDS

NON LOADBEARING WALLS CAN BE DESIGNED WITH 63mm STUD WALLS. IT IS RECOMMENDED THAT MID HEIGHT NOGGINGS ARE INSTALLED TO 63mm WALLS TO PROVIDE A MORE ROBUST FINISH ON SITE. SPECIAL CARE MUST BE TAKEN FOR PLASTERBOARD WHEN 63mm STUD IS TO BE USED FOR AN ACOUSTIC WALL INSIDE A DWELLING AS PER PART E OF THE BUILDING REGULATIONS.



DPC SHOULD IDEALLY ALWAYS BE 150mm ABOVE THE EXTERNAL GROUND LEVEL. IN CASES WHERE THIS IS NOT POSSIBLE THIS DIMENSION CAN BE REDUCED TO A MINIMUM OF 75mm AS LONG AS THE CAVITY IS SUITABLY DRAINED AS SHOWN IN DETAIL 4.1 (EXTERNAL WALL – GROUND FLOOR). THE DETAILING OF THE CAVITY AND GROUND LEVELS ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER AND NOT THE TIMBER FRAME DESIGNER. THIS DETAIL SHOULD BE CLEARED WITH BUILDING WARRANTOR WHERE USED.

WHERE THE GROUND IS LEVEL TO THE TOP OF SLAB THE DETAIL BELOW IS TO BE USED BUT AGAIN SHOULD BE CHECKED WITH BUILDING WARRANTOR AND FOUNDATION DESIGNER.



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DRAWING TITLE:
INTERNAL WALL – GF NON-LOADBEARING

DRAWING No:
5.2

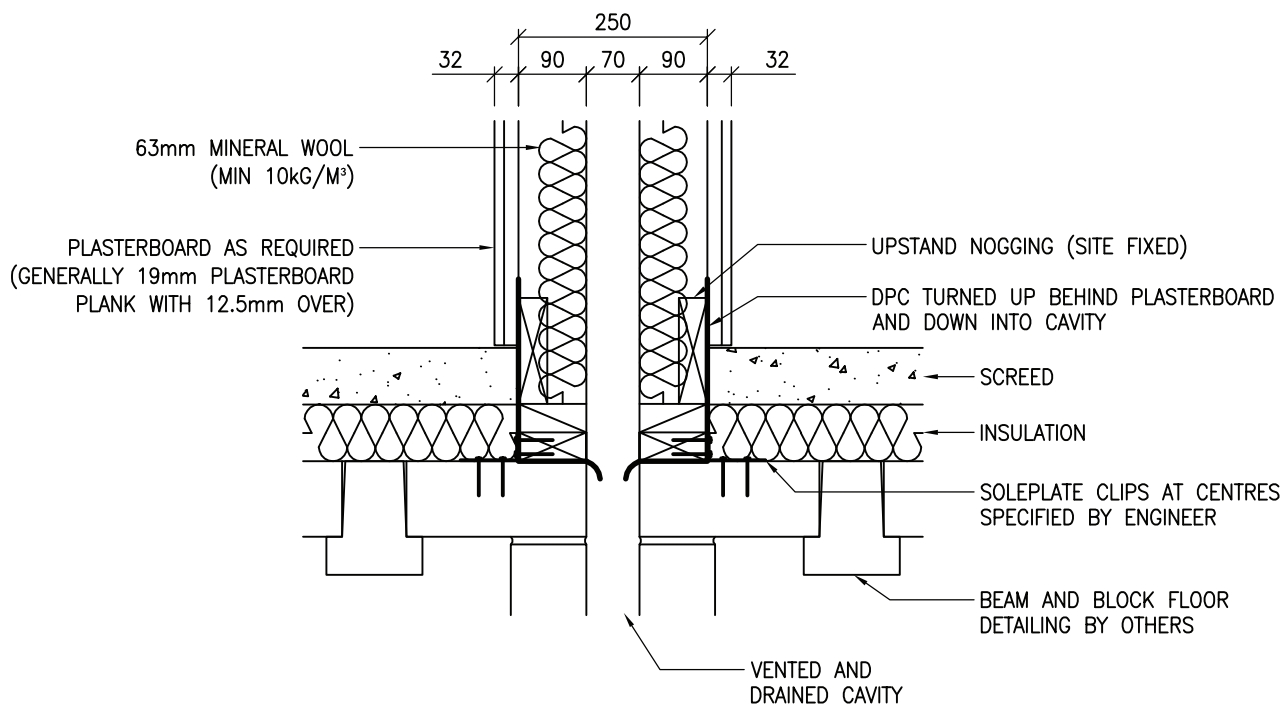
REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08

DETAIL SHOWN IS IN ACCORDANCE WITH ROBUST STANDARD DETAIL E-WT-1.
 CAVITY TO BE MINIMUM 60mm BUT RECOMMEND A TOLERANCE IS ALLOWED FOR PLUMB OF PANEL DURING ERECTION,
 ALTERNATIVELY FIX PANEL PLUMB TO WALL PANELS AS PER SILVATEC DETAIL 8.1.



ALL SOLEPLATES AT GROUND FLOOR LEVEL MUST HAVE A PRESERVATIVE TREATMENT IN ACCORDANCE WITH CURRENT STANDARDS

ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.



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DRAWING TITLE:
 INTERNAL WALL – GF SEPARATING WALL

DRAWING No:
 5.3

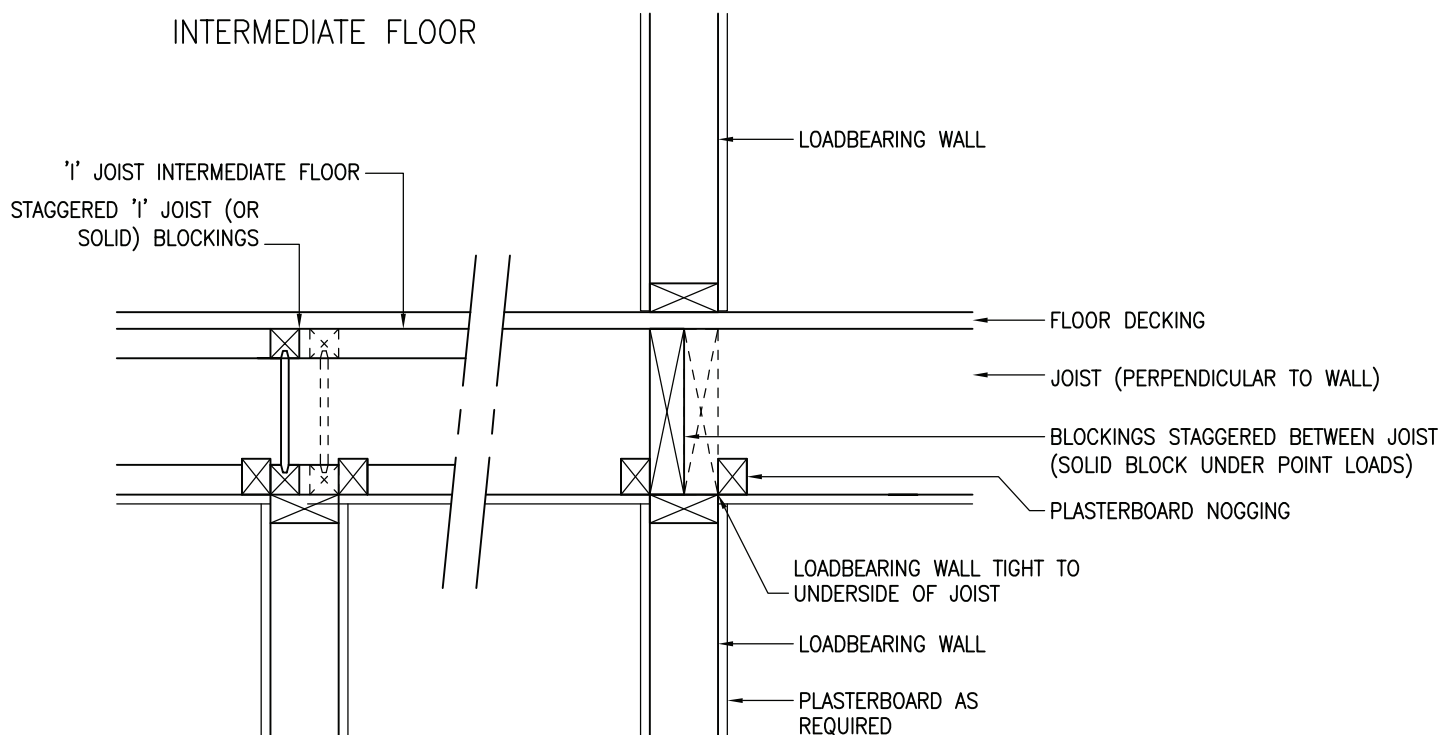
REVISION:
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SCALE:
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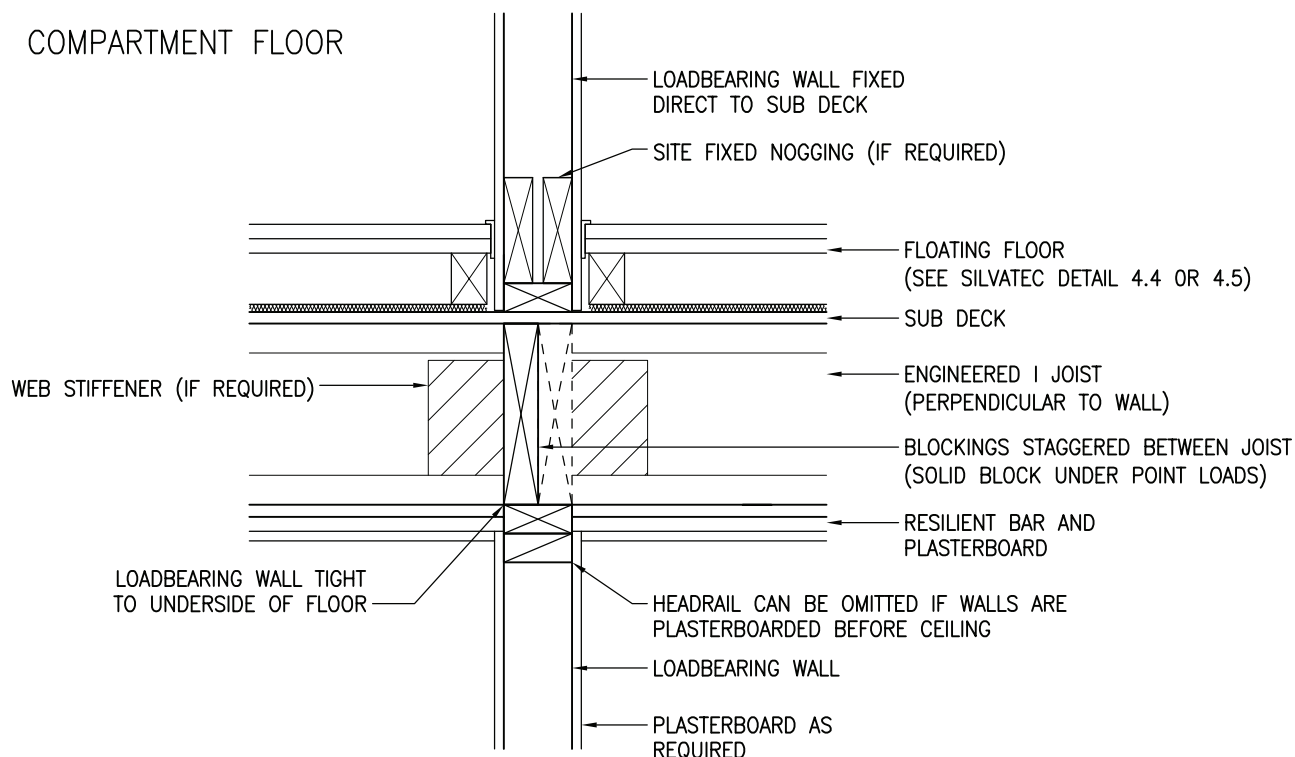
DRAWN BY:
 T.KNIGHT

DATE:
 JAN 08

INTERMEDIATE FLOOR



COMPARTMENT FLOOR



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SURREY
GU22 9LL

TEL: 01483 769518

FAX: 01483 770863

E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
INTERNAL WALL – UPPER FLOOR
LOADBEARING PARTITION

DRAWING No:
5.4

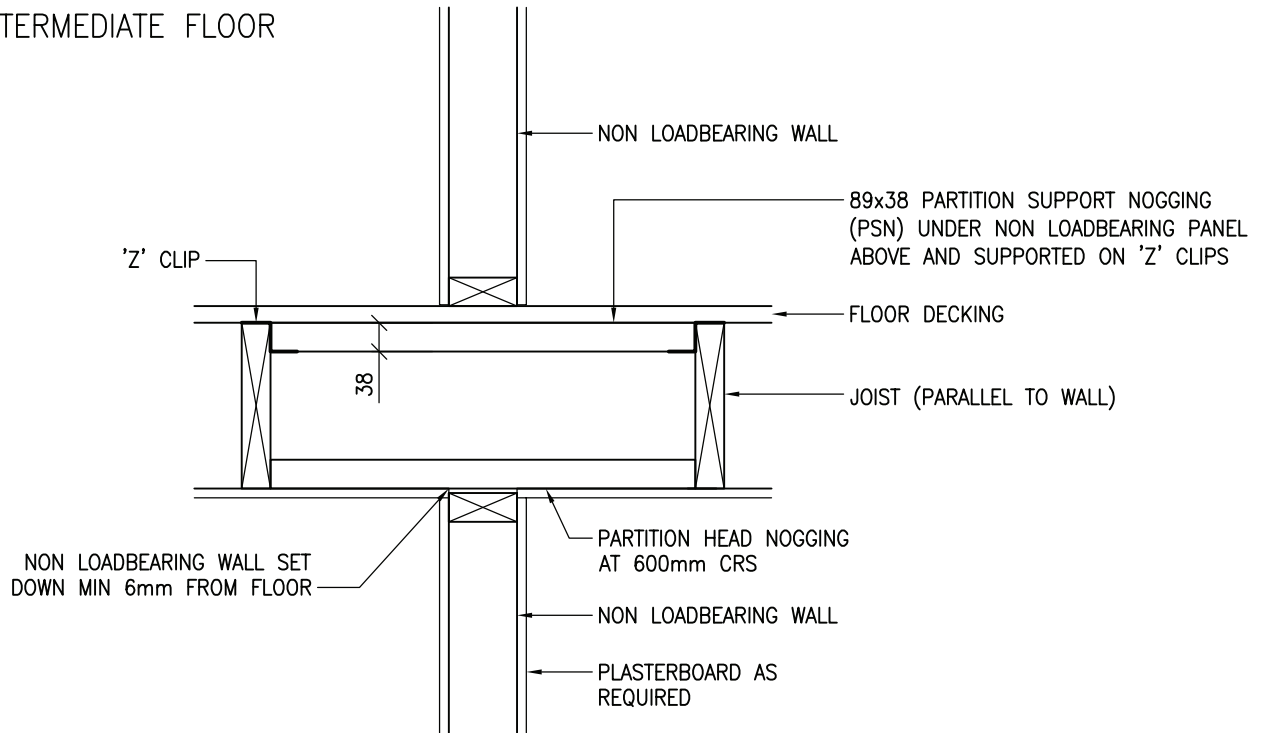
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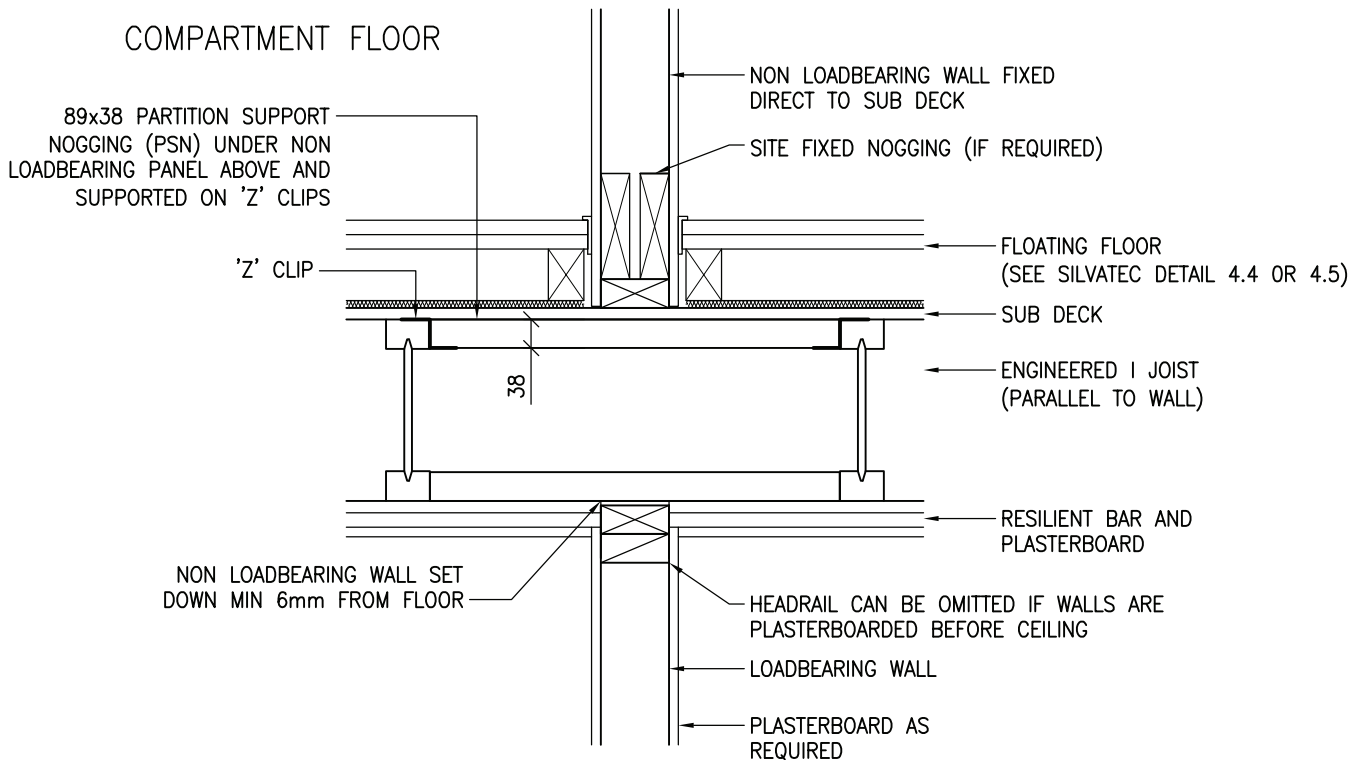
DRAWN BY:
T.KNIGHT

DATE:
JAN 08

INTERMEDIATE FLOOR



COMPARTMENT FLOOR



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DRAWING TITLE:
INTERNAL WALL – UPPER FLOOR
NON LOADBEARING PARTITION

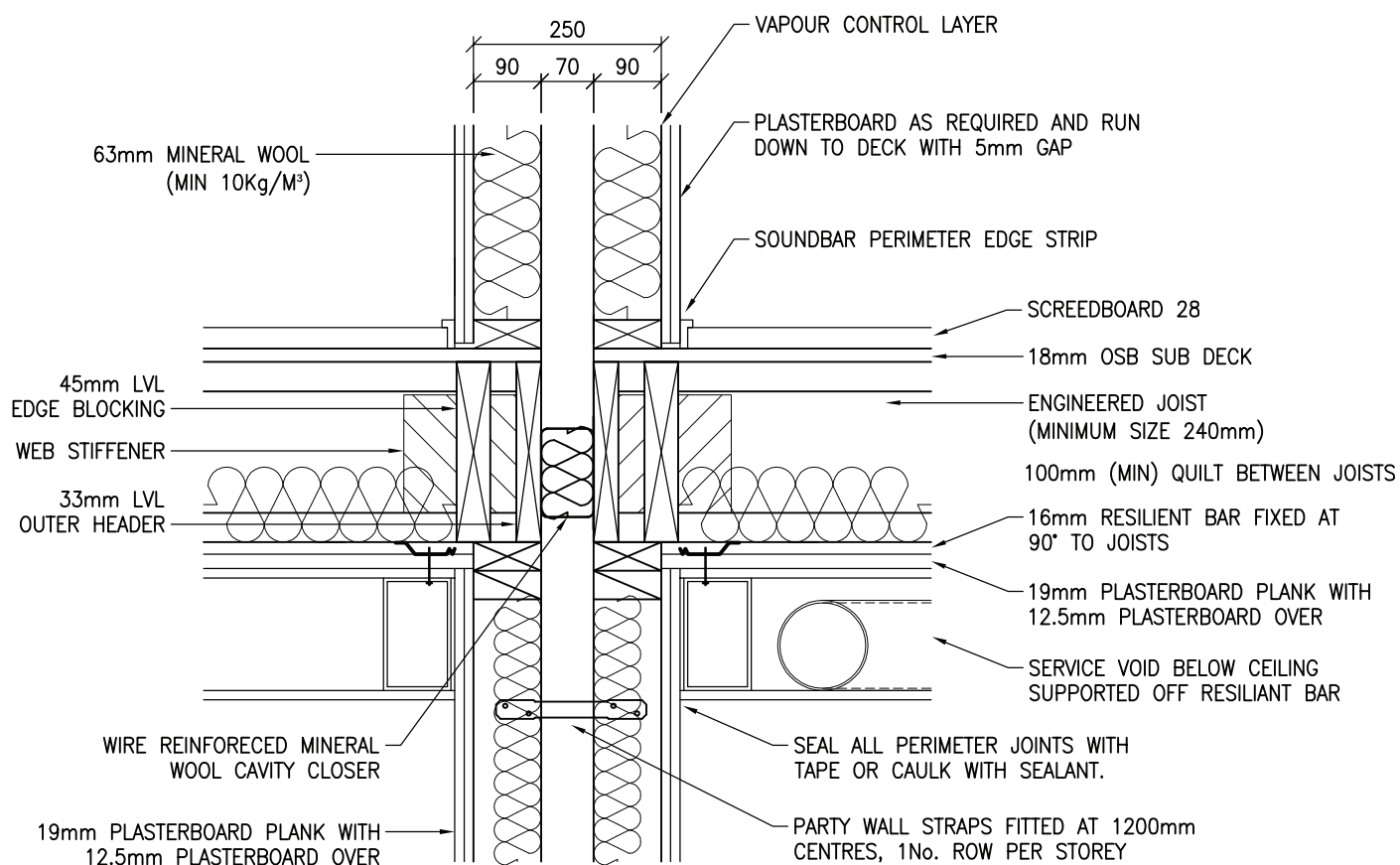
DRAWING No:
5.5

REVISION:
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SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



DETAILS SHOWN COMPLY TO E-FT-5 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.



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DRAWING TITLE:
SEPARATING WALL – COMPARTMENT FLOOR
WITH SCREEDBOARD & JOISTS PERPENDICULAR

DRAWING No:
5.6.14

REVISION:
–

SCALE:
1:10

DRAWN BY:
T.ROBERTS

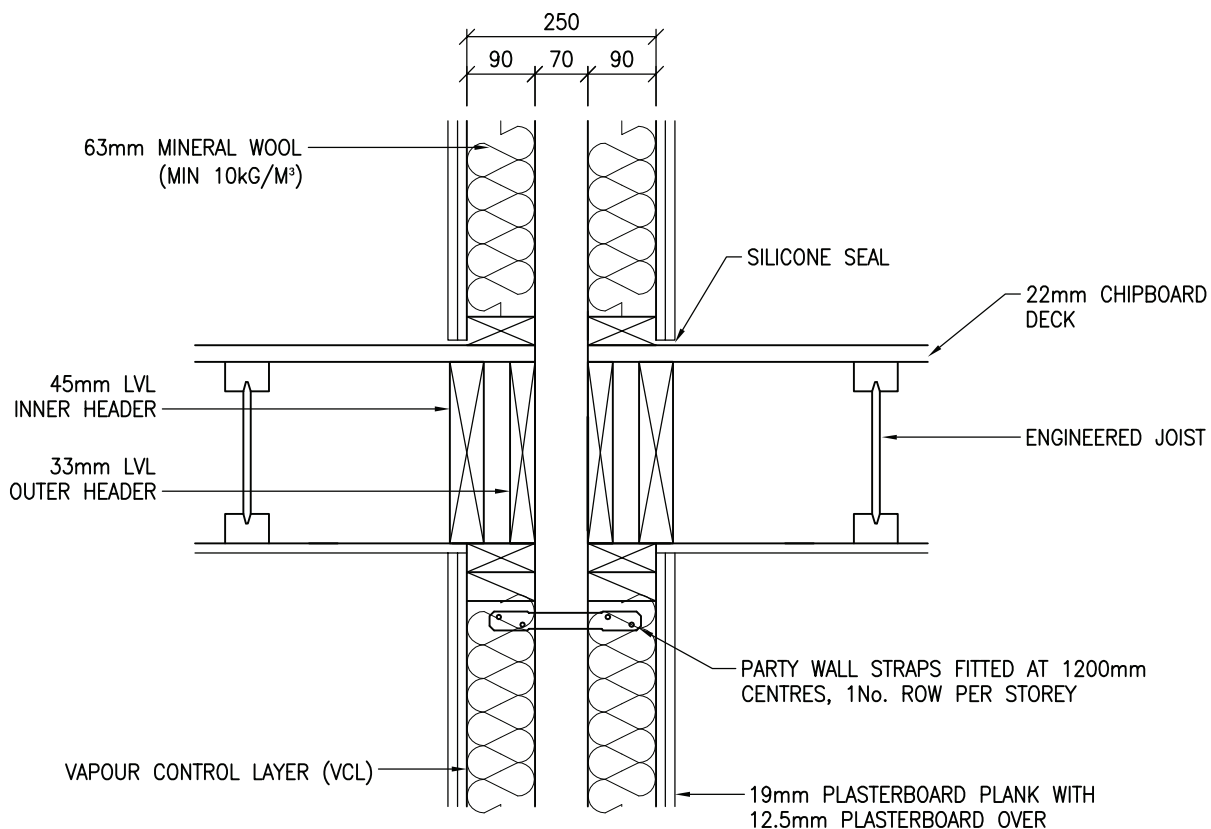
DATE:
SEPT 09



ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.



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DETAILS SHOWN COMPLY TO E-WT-1 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

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DRAWING TITLE:
INTERNAL WALL – SEPARATING WALL
INTERMEDIATE FLOOR JOISTS PARALLEL

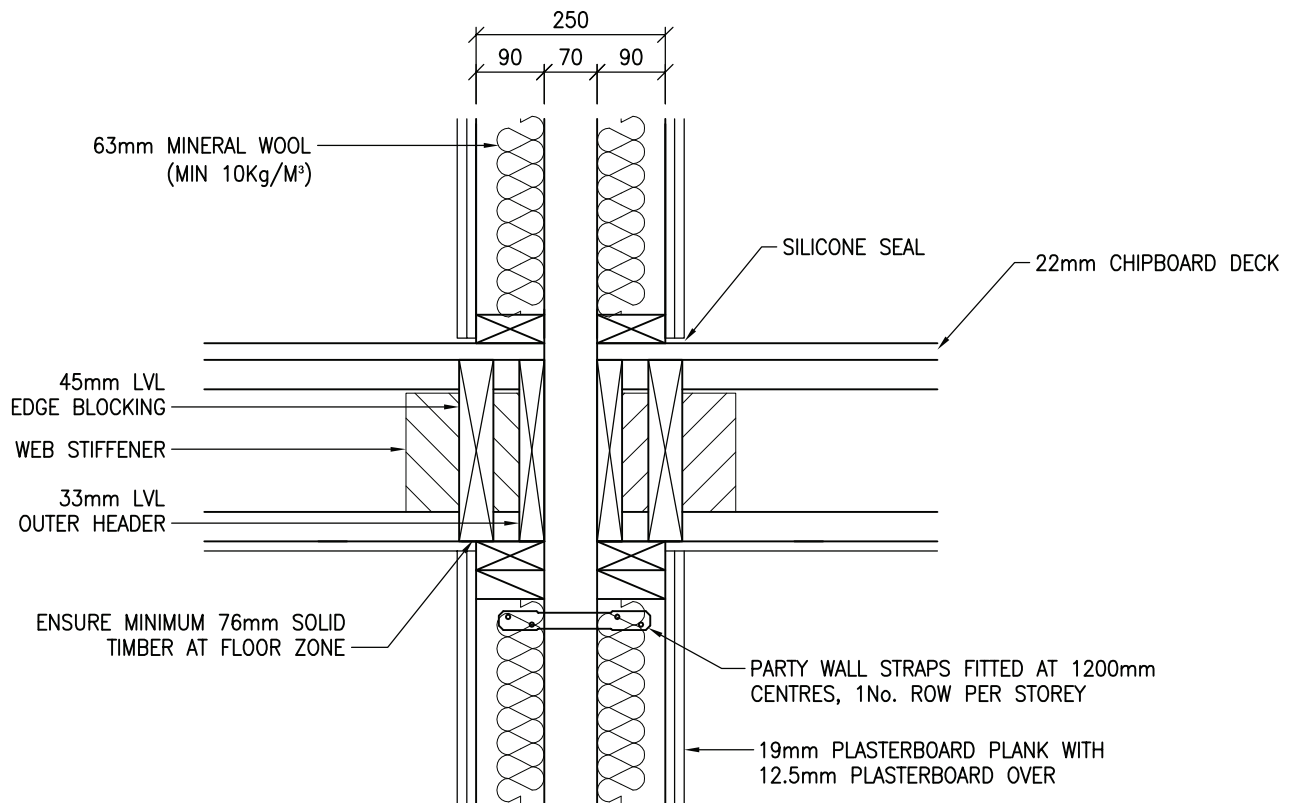
DRAWING No:
5.6.3

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



DETAILS SHOWN COMPLY TO E-WT-1 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

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DRAWING TITLE:
INTERNAL WALL – SEPARATING WALL
INTERMEDIATE FLOOR JOISTS PERPENDICULAR

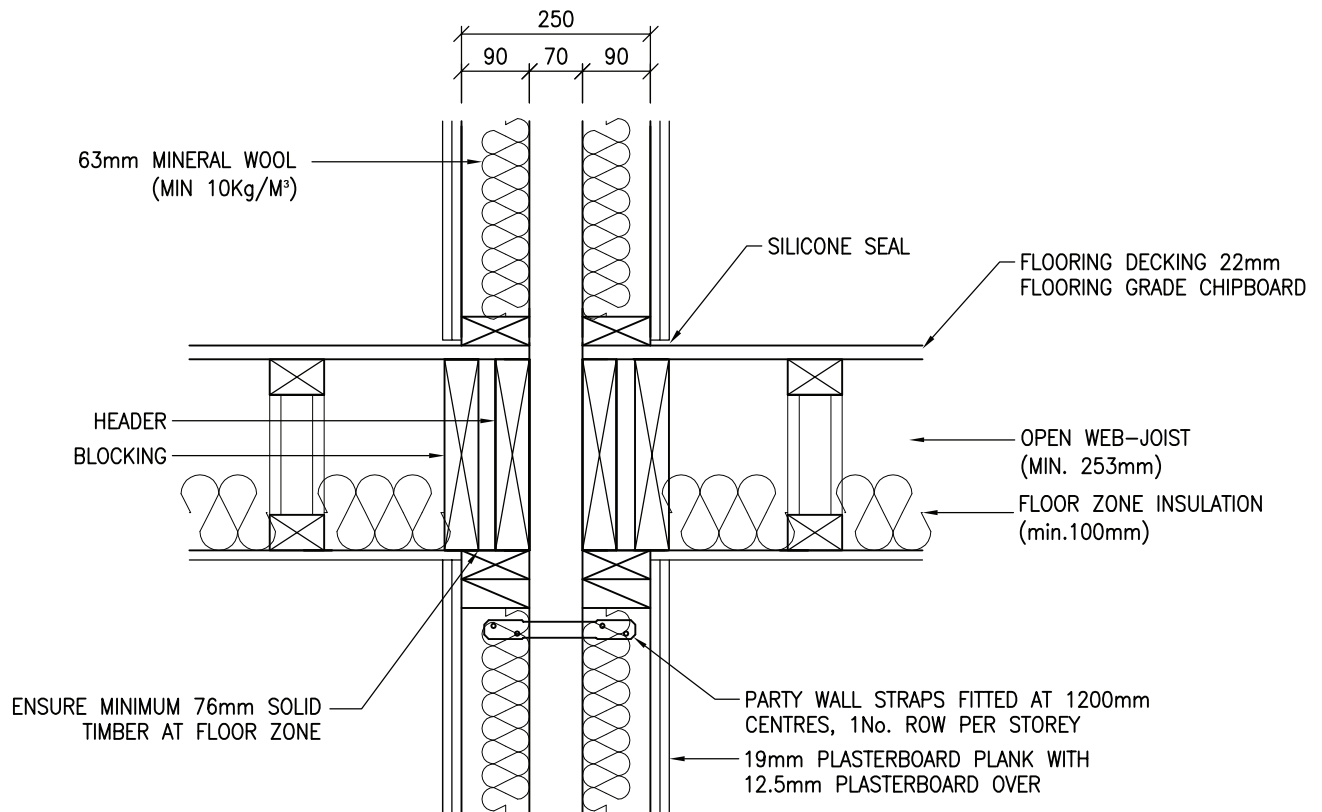
DRAWING No:
5.6.4

REVISION:
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SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



DETAILS SHOWN COMPLY TO E-WT-1 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

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DRAWING TITLE:
INTERNAL WALL – SEPARATING WALL
INTERMEDIATE FLOOR OPEN WEB PARALLEL

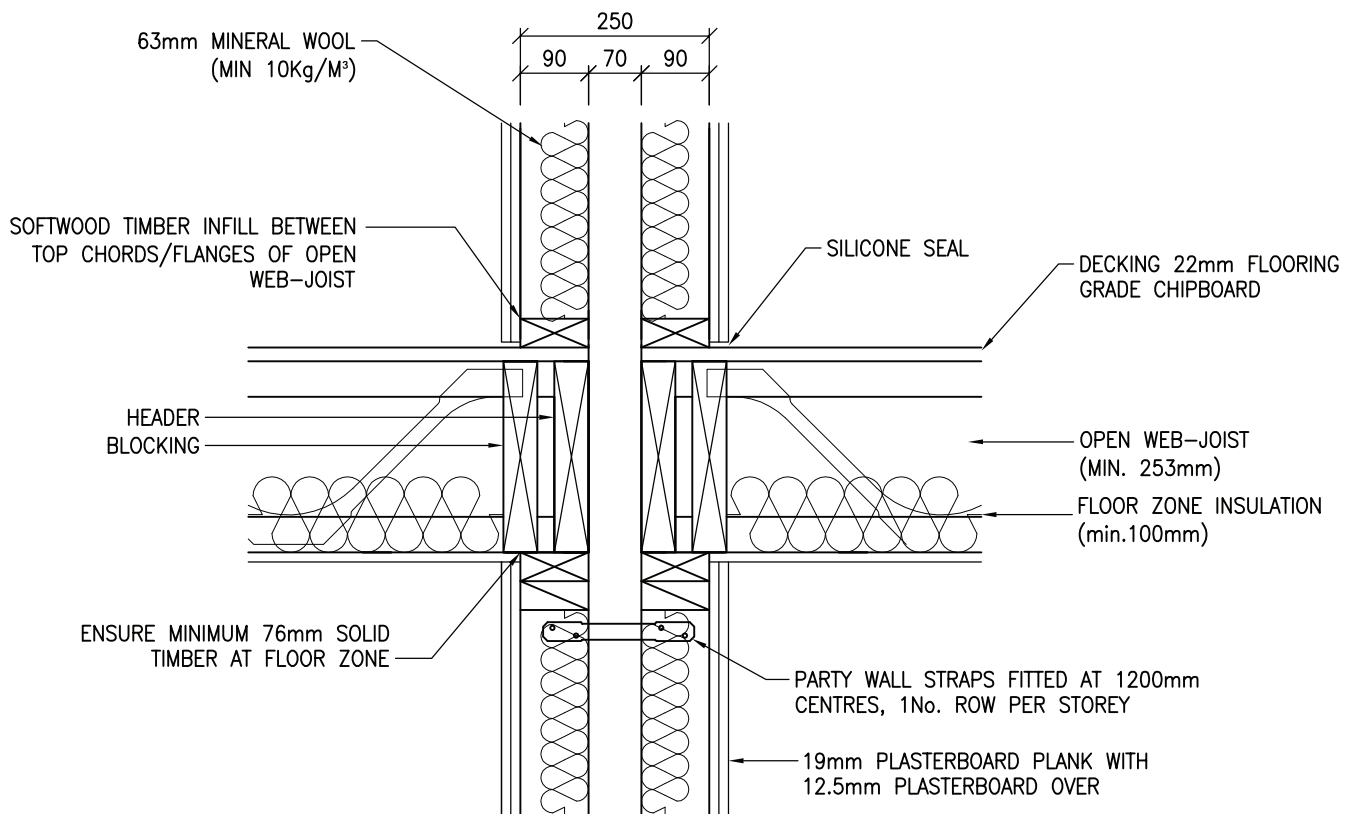
DRAWING No:
5.6.5

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



DETAILS SHOWN COMPLY TO E-WT-1 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

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DRAWING TITLE:
INTERNAL WALL – SEPARATING WALL
INTERMEDIATE FLOOR OPEN WEB PERPENDICULAR

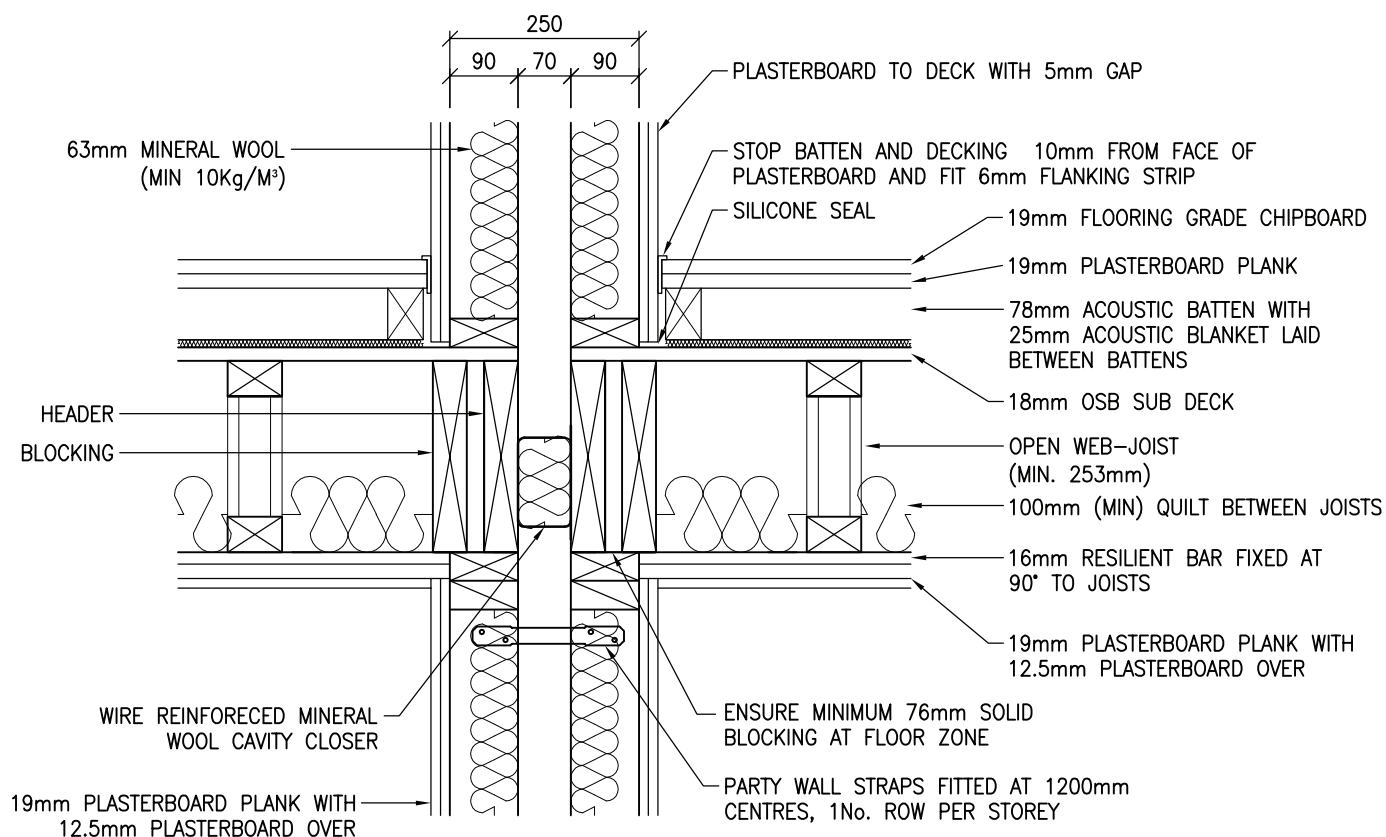
DRAWING No:
5.6.6

REVISION:
A

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



NOTE: JOISTS CAN ALSO BE TOP CHORD/FLANGE SUPPORTED

DETAILS SHOWN COMPLY TO E-FT-3 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

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DRAWING TITLE:
INTERNAL WALL – SEPARATING WALL
COMPARTMENT FLOOR OPEN WEB PARALLEL

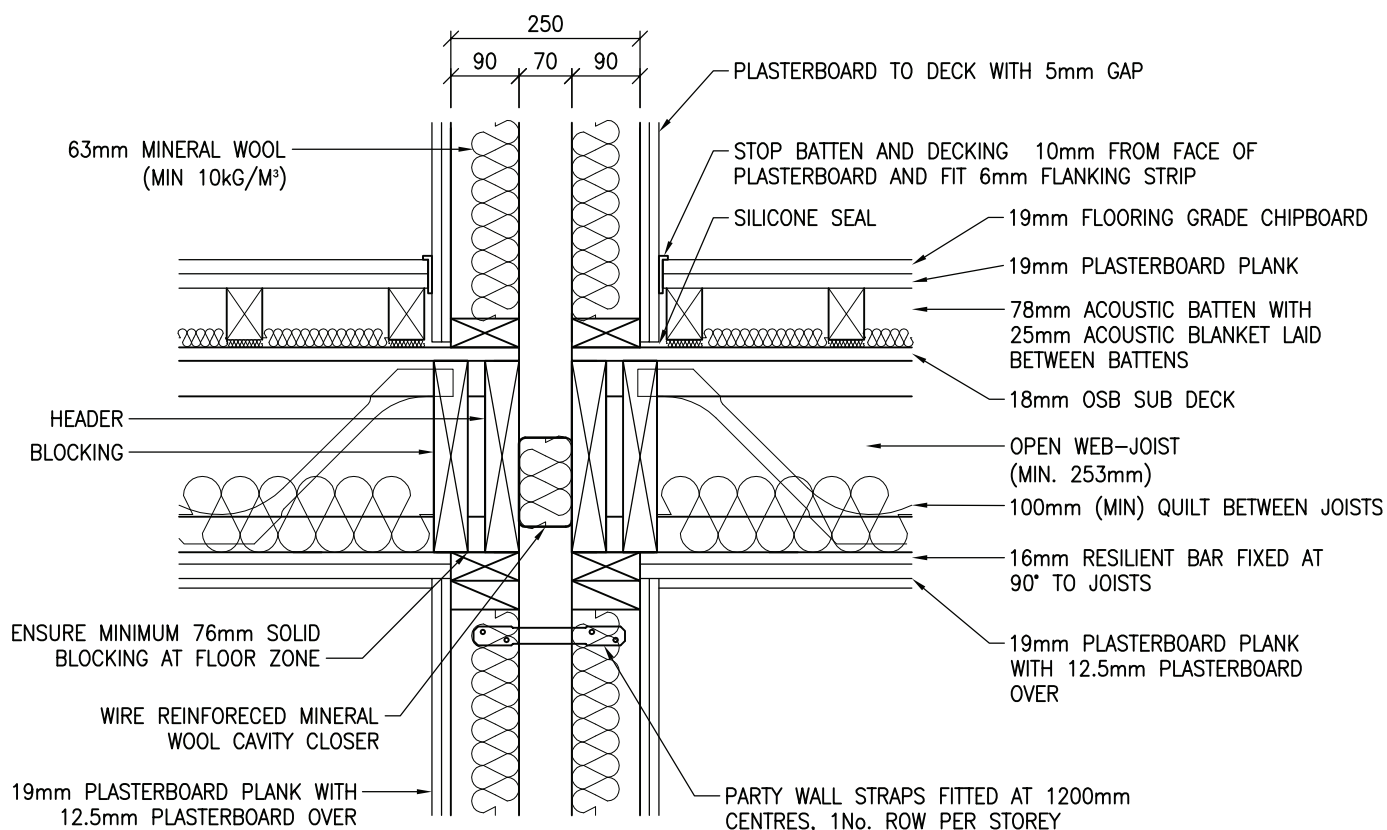
DRAWING No:
5.6.7

REVISION:
B

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



NOTE: JOISTS CAN ALSO BE TOP CHORD/FLANGE SUPPORTED

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GU22 9LL

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FAX: 01483 770863
E-MAIL: design@silvatecdesign.com

DRAWING TITLE:
INTERNAL WALL – SEPARATING WALL
COMPARTMENT FLOOR OPEN WEB PERPENDICULAR

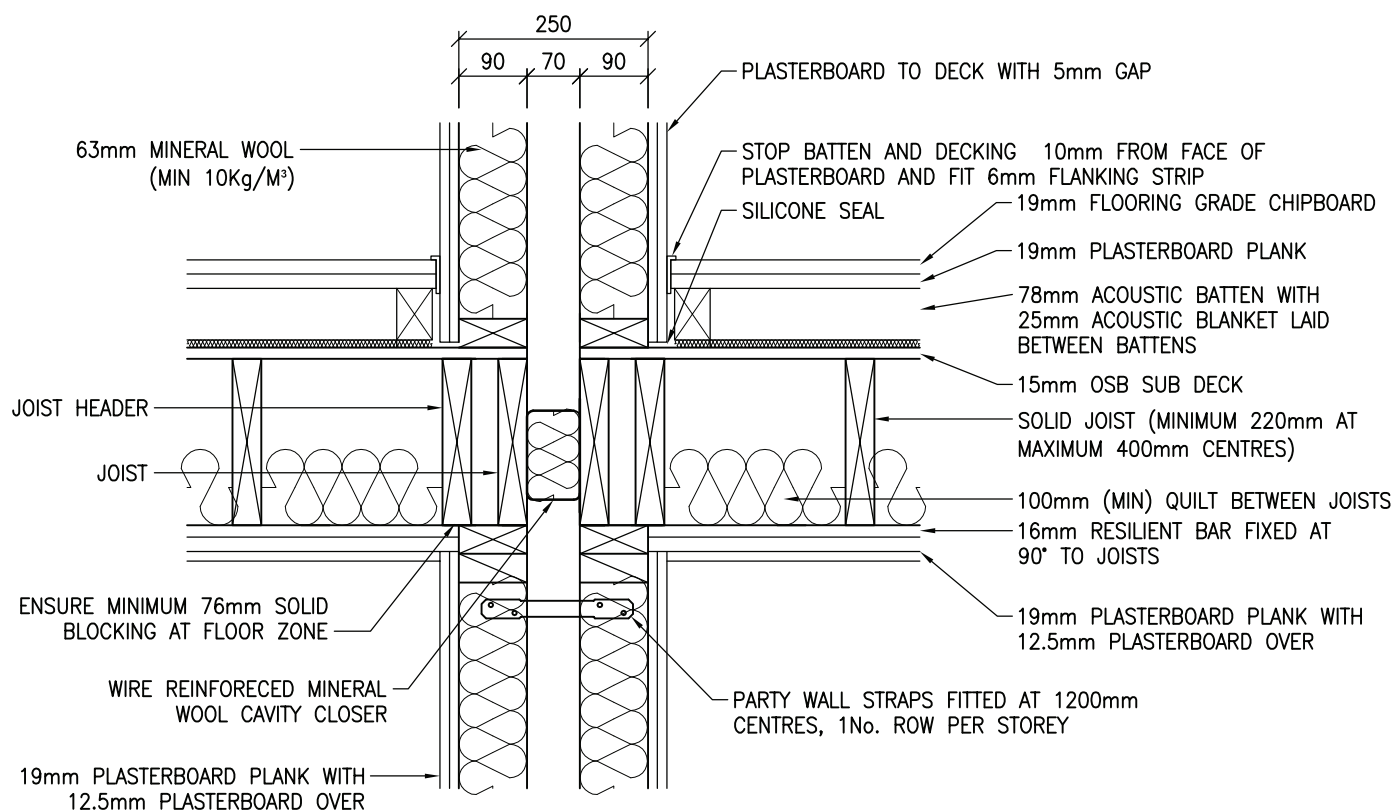
DRAWING No:
5.6.8

REVISION:
B

SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
JUN 08



DETAILS SHOWN COMPLY TO E-FT-2 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.

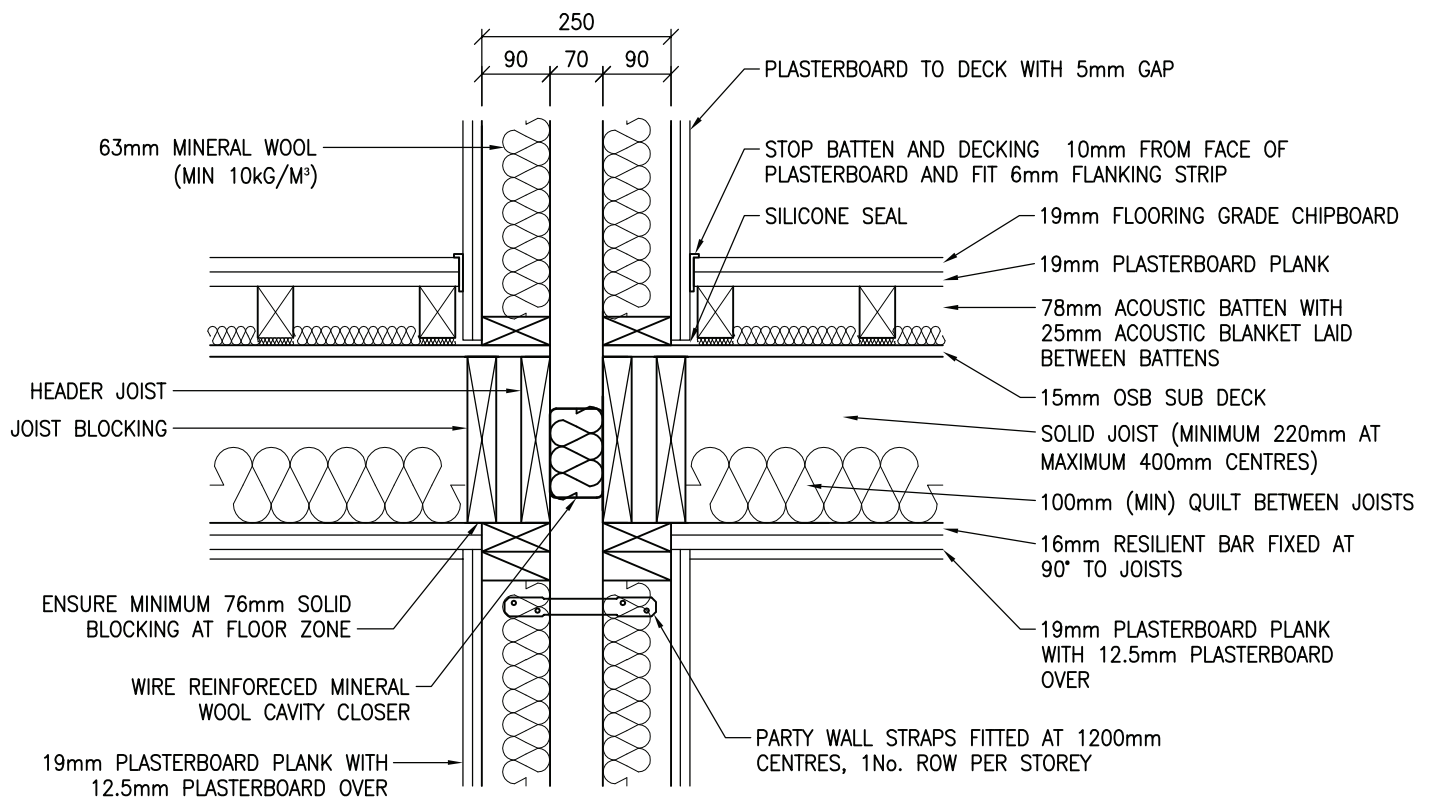


Building 1 Grosvenor Court
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Old Woking
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DRAWING TITLE:
SEPARATING WALL – COMPARTMENT FLOOR
SOLID JOISTS PARALLEL

DRAWING No: 5.6.9	REVISION: –	SCALE: 1:10
DRAWN BY: T.KNIGHT	DATE: DEC 08	



DETAILS SHOWN COMPLY TO E-FT-2 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.



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DRAWING TITLE:
SEPARATING WALL – COMPARTMENT FLOOR
SOLID JOISTS PERPENDICULAR

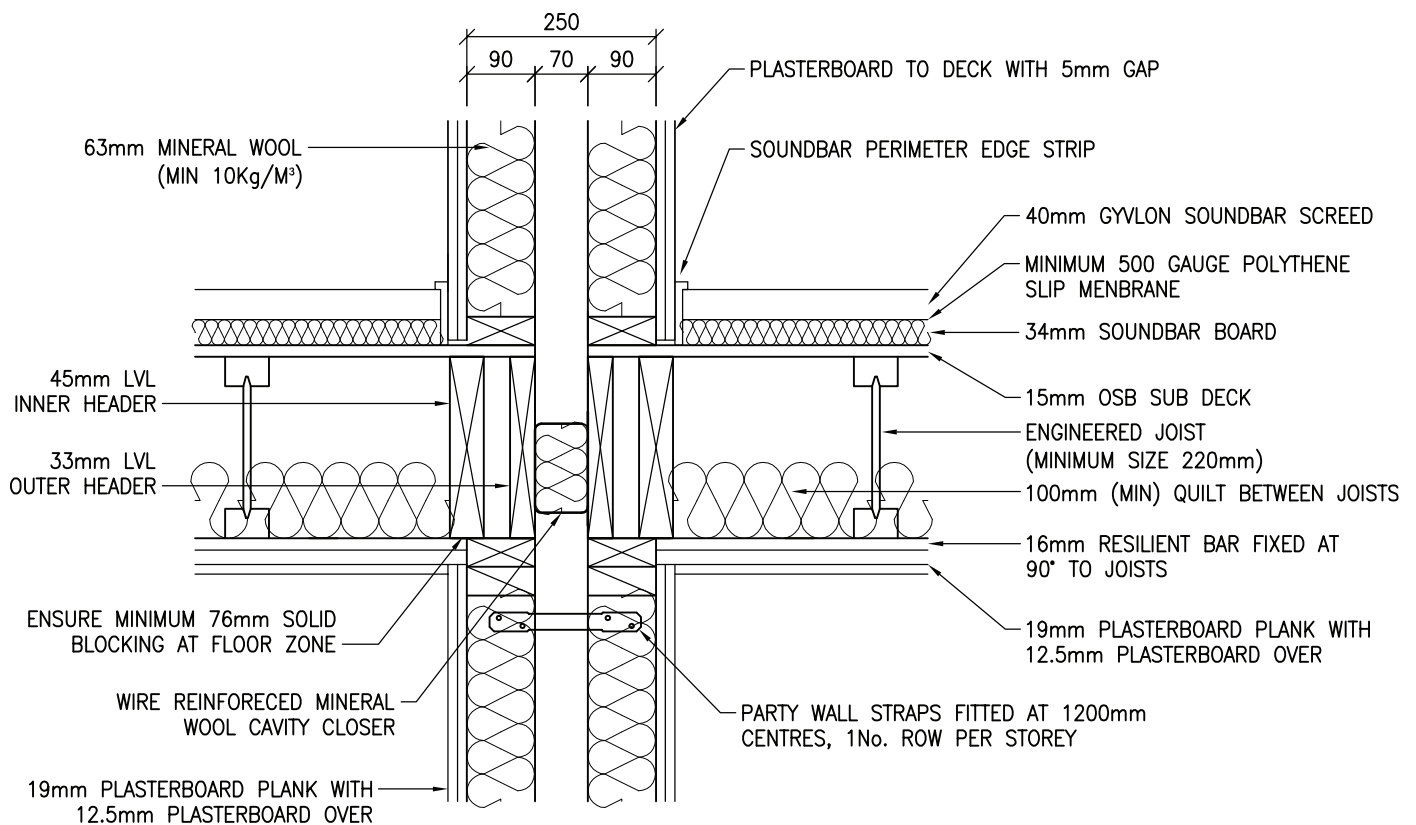
DRAWING No:
5.6.10

REVISION:
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SCALE:
1:10

DRAWN BY:
T.KNIGHT

DATE:
DEC 08



DETAILS SHOWN COMPLY TO E-FT-4 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.



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DRAWING TITLE:
SEPARATING WALL – COMPARTMENT FLOOR
WITH SCREED AND JOISTS PARALLEL

DRAWING No:
5.6.11

REVISION:
–

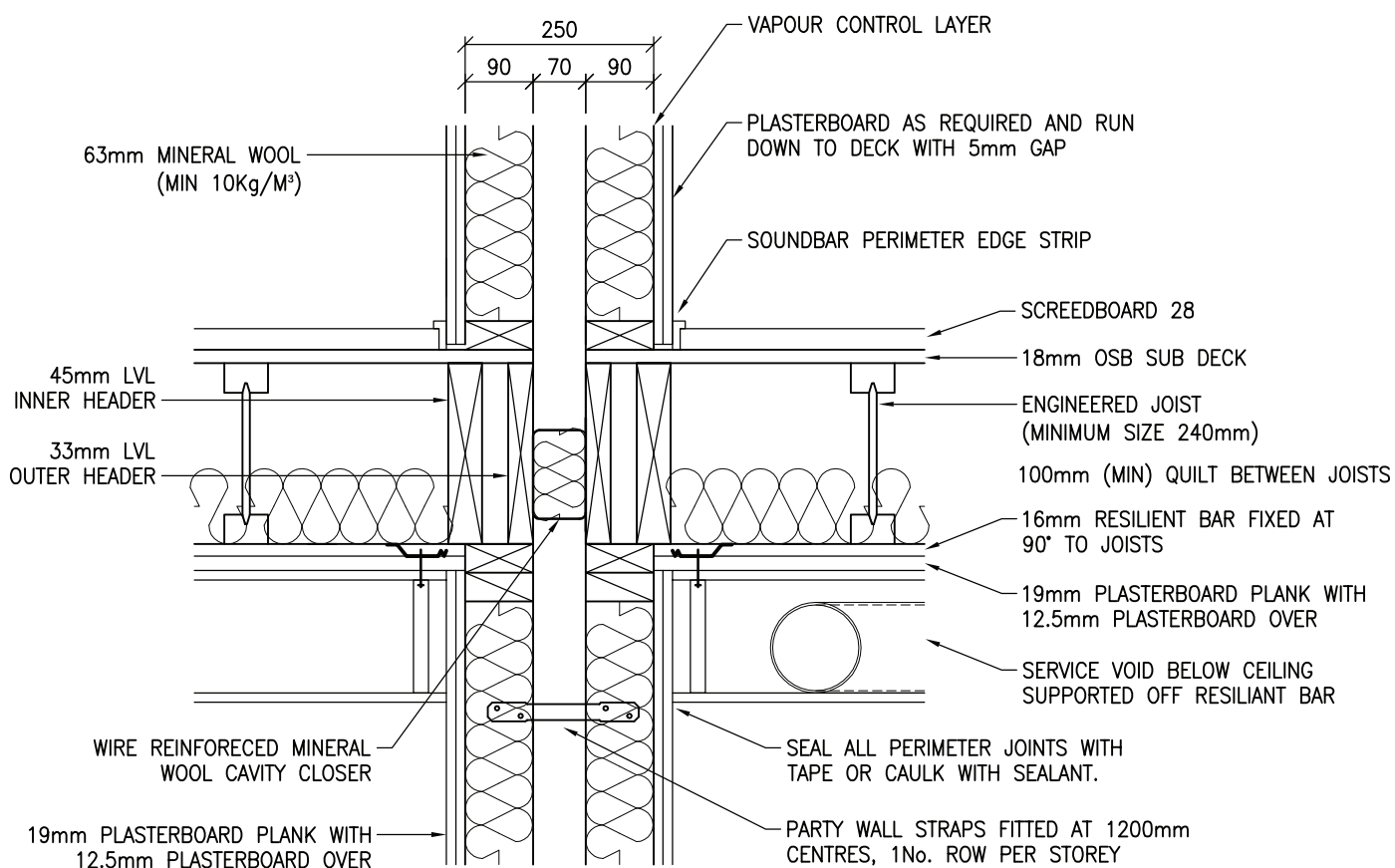
SCALE:
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DRAWN BY:
M.SINGLIAR

DATE:
NOV 08



ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.



DETAILS SHOWN COMPLY TO E-FT-5 OF THE ROBUST STANDARD DETAILS. OTHER ACOUSTIC FLOOR DETAILS ARE AVAILABLE BUT MAY BE SUBJECT TO PRE-COMPLETION SOUND TESTING.

ALL LOADBEARING WALLS WHICH ARE NOT PLASTERBOARDED ON BOTH SIDES AND HAVE NO SHEATHING TO THE CAVITY SIDE MUST HAVE MID HEIGHT NOGGINGS TO RESTRAIN STUDS FROM BUCKLING IN THE WEAK AXIS AS PER THE BRITISH STANDARDS.



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DRAWING TITLE:
SEPARATING WALL – COMPARTMENT FLOOR
WITH SCREEDBOARD AND JOISTS PARALLEL

DRAWING No:
5.6.13

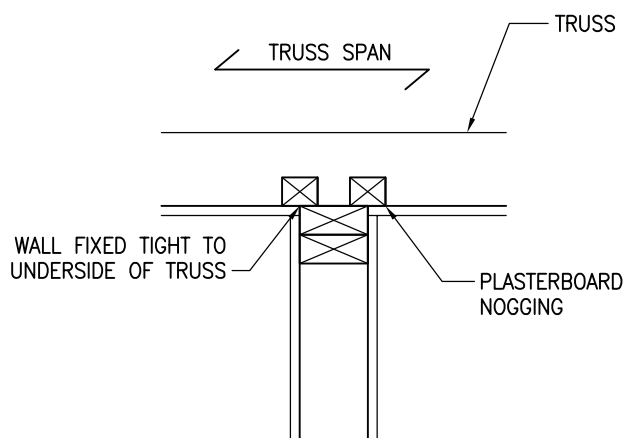
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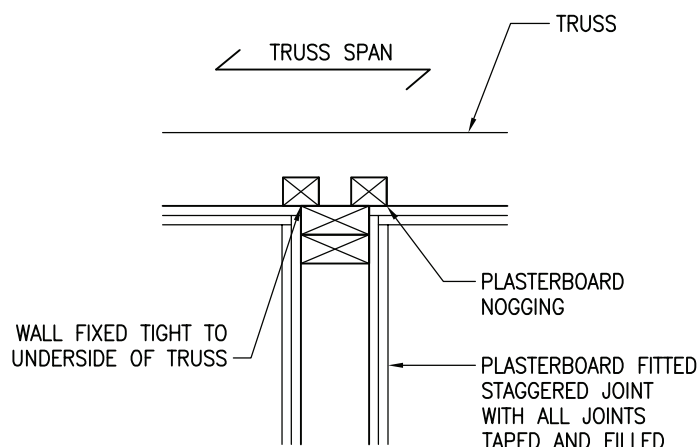
DRAWN BY:
T.ROBERTS

DATE:
SEPT 09

LOADBEARING WALL 30 MINUTES FIRE RESISTANCE

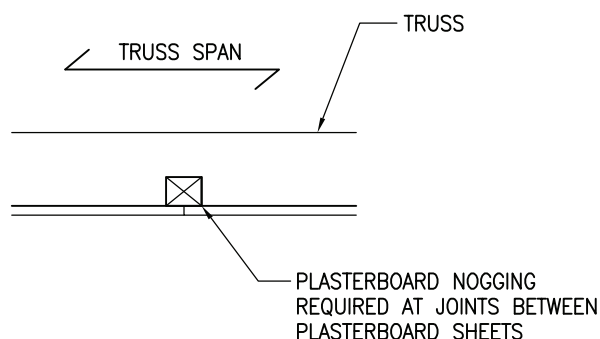
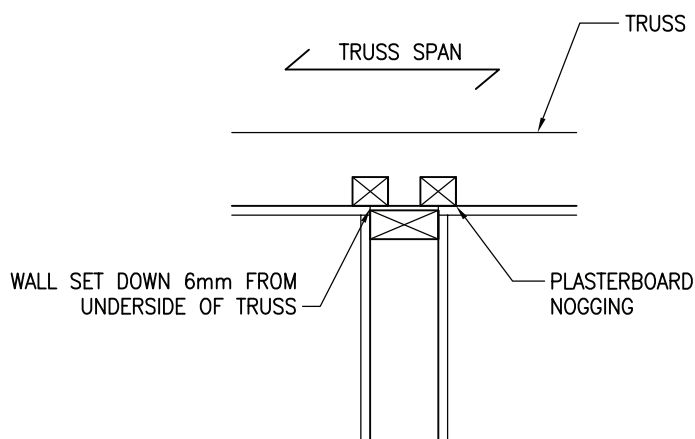


LOADBEARING WALL 60 MINUTES FIRE RESISTANCE



PLASTERBOARD REQUIREMENTS MUST BE CONFIRMED WITH BUILDING DESIGNER

NON LOADBEARING WALL 30 MINUTES FIRE RESISTANCE



ALL PLASTERBOARD SHOWN IS 12.5mm THICK AND MUST BE MINIMUM OF 10Kg/M².
PLASTERBOARD MUST BE FIXED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, WITH JOINTS TAPED AND FILLED AND BACKED BY SOLID TIMBER.

ENSURE PLASTERBOARD SCREWS DO NOT PENETRATE PAPER AS THIS WILL COMPROMISE THE INTEGRITY OF THE PLASTERBOARD



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DRAWING TITLE:
INTERNAL WALL – CEILING

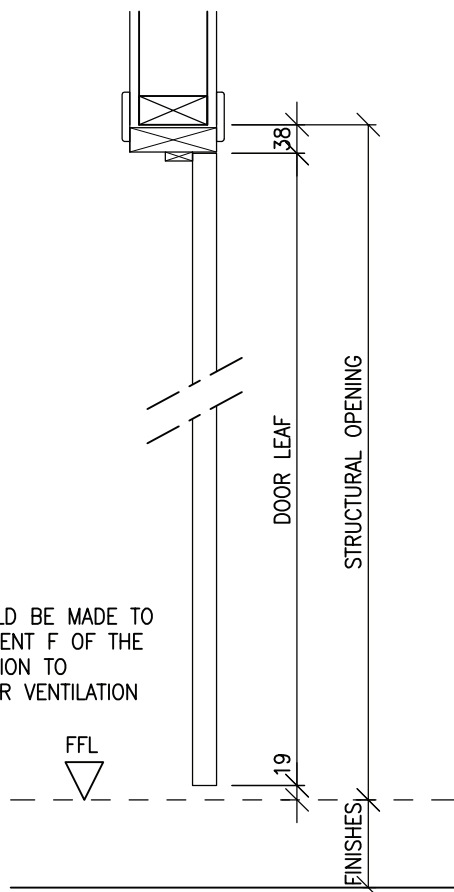
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5.7

REVISION:
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SCALE:
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DRAWN BY:
T.KNIGHT

DATE:
JAN 08

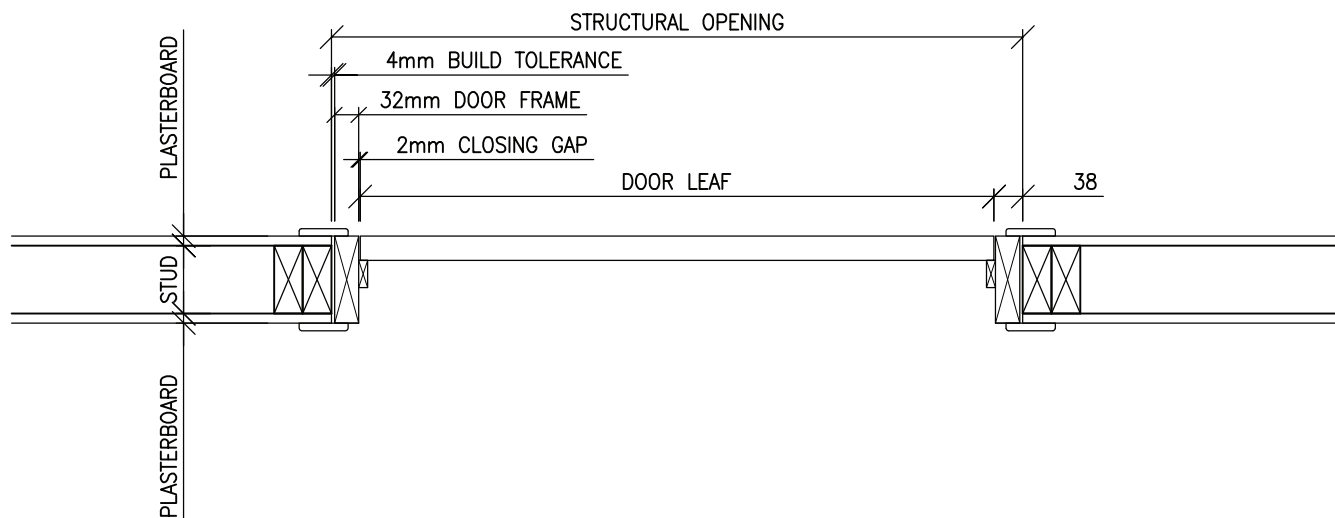


IMPERIAL DOOR LEAF SIZES

DOOR LEAF WIDTH	HEIGHT	STRUCTURAL WIDTH	OPENING FROM FFL HEIGHT
381 (1'3")	1981 (6'6")	457	2038 (ALLOW 2040)
457 (1'6")	1981 (6'6")	533	2038 (ALLOW 2040)
533 (1'9")	1981 (6'6")	610	2038 (ALLOW 2040)
610 (2'0")	1981 (6'6")	686	2038 (ALLOW 2040)
686 (2'3")	1981 (6'6")	762	2038 (ALLOW 2040)
762 (2'6")	1981 (6'6")	838	2038 (ALLOW 2040)
838 (2'9")	1981 (6'6")	914	2038 (ALLOW 2040)

METRIC DOOR LEAF SIZES

DOOR LEAF WIDTH	HEIGHT	STRUCTURAL WIDTH	OPENING FROM FFL HEIGHT
526	2040	600	2097 (ALLOW 2100)
626	2040	700	2097 (ALLOW 2100)
726	2040	800	2097 (ALLOW 2100)
826	2040	900	2097 (ALLOW 2100)
926	2040	1000	2097 (ALLOW 2100)



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DRAWING TITLE:

DOOR LININGS – INTERNAL

DRAWING No:

6.1

REVISION:

–

SCALE:

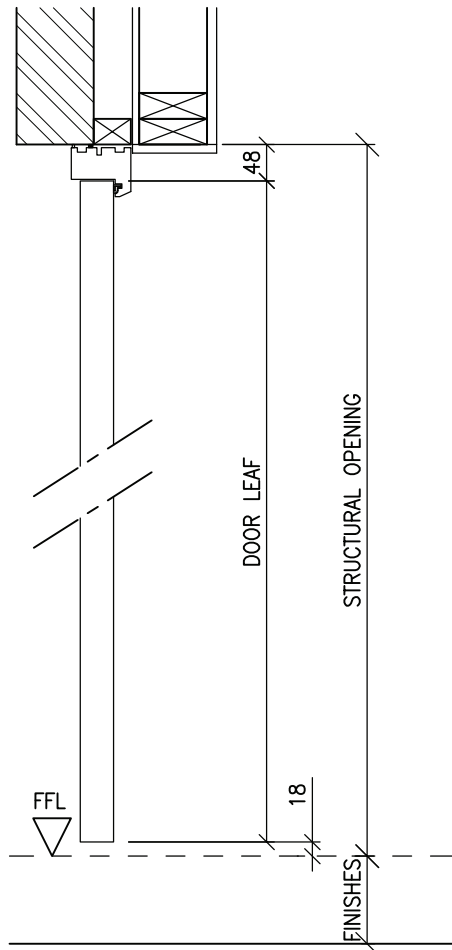
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DRAWN BY:

T.KNIGHT

DATE:

JAN 08

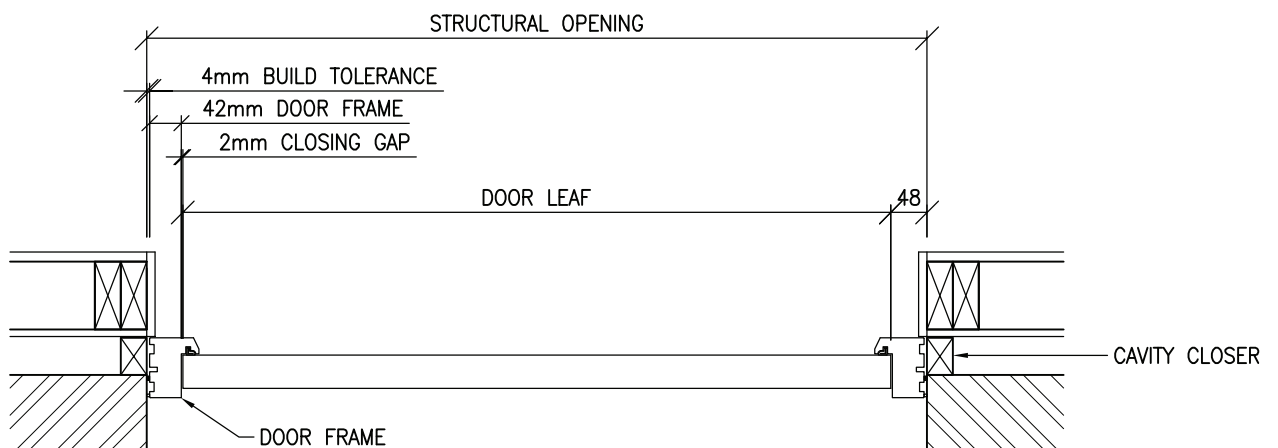


IMPERIAL DOOR LEAF SIZES

DOOR LEAF WIDTH	HEIGHT	STRUCTURAL WIDTH	OPENING FROM FFL HEIGHT
381 (1'3")	1981 (6'6")	477	2077 (ALLOW 2100)
457 (1'6")	1981 (6'6")	553	2077 (ALLOW 2100)
533 (1'9")	1981 (6'6")	629	2077 (ALLOW 2100)
610 (2'0")	1981 (6'6")	706	2077 (ALLOW 2100)
686 (2'3")	1981 (6'6")	782	2077 (ALLOW 2100)
762 (2'6")	1981 (6'6")	858	2077 (ALLOW 2100)
838 (2'9")	1981 (6'6")	934	2077 (ALLOW 2100)
914 (3'0")	1981 (6'6")	981	2077 (ALLOW 2100)

METRIC DOOR LEAF SIZES

DOOR LEAF WIDTH	HEIGHT	STRUCTURAL WIDTH	OPENING FROM FFL HEIGHT
526	2040	622	2107 (ALLOW 2100)
626	2040	722	2107 (ALLOW 2100)
726	2040	822	2107 (ALLOW 2100)
826	2040	922	2107 (ALLOW 2100)
926	2040	1022	2107 (ALLOW 2100)



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DRAWING TITLE:
DOOR LININGS – EXTERNAL WALL

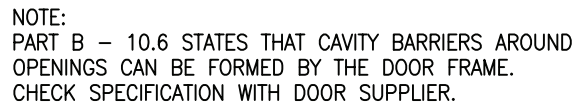
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6.2

REVISION:
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DRAWN BY:
T.KNIGHT

DATE:
JAN 08

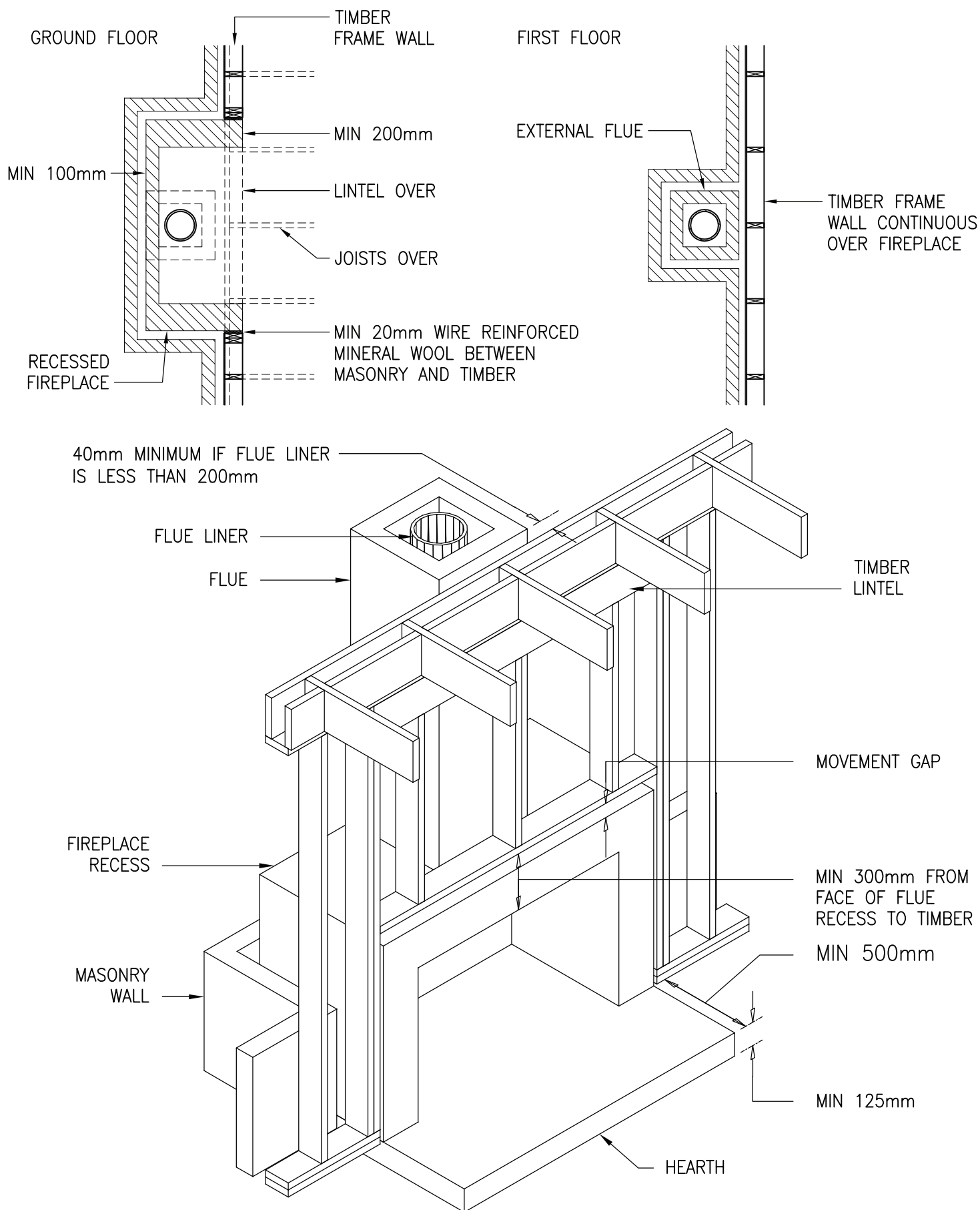


DOOR LEAF WIDTH	HEIGHT	STRUCTURAL WIDTH	OPENING FROM FFL HEIGHT
381 (1'3")	1981 (6'6")	457	2057
457 (1'6")	1981 (6'6")	533	2057
533 (1'9")	1981 (6'6")	610	2057
610 (2'0")	1981 (6'6")	686	2057
686 (2'3")	1981 (6'6")	762	2057
762 (2'6")	1981 (6'6")	838	2057
838 (2'9")	1981 (6'6")	914	2057

DOOR WIDTH	LEAF HEIGHT	STRUCTURAL WIDTH	OPENING FROM FFL HEIGHT
526	2040	600	2116
626	2040	700	2116
726	2040	800	2116
826	2040	900	2116
926	2040	1000	2116

CAVITY CLOSER NOT REQUIRED AS LONG AS OPENING IS COVERED BY EITHER 38MM OF TIMBER DOOR FRAME OR MINIMUM 12MM GYPSUM BASED BOARD AS SHOWN

DATE:	JAN 08
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DRAWING TITLE:
SERVICES – CHIMNEY EXTERNAL

DRAWING No:
7.1

REVISION:
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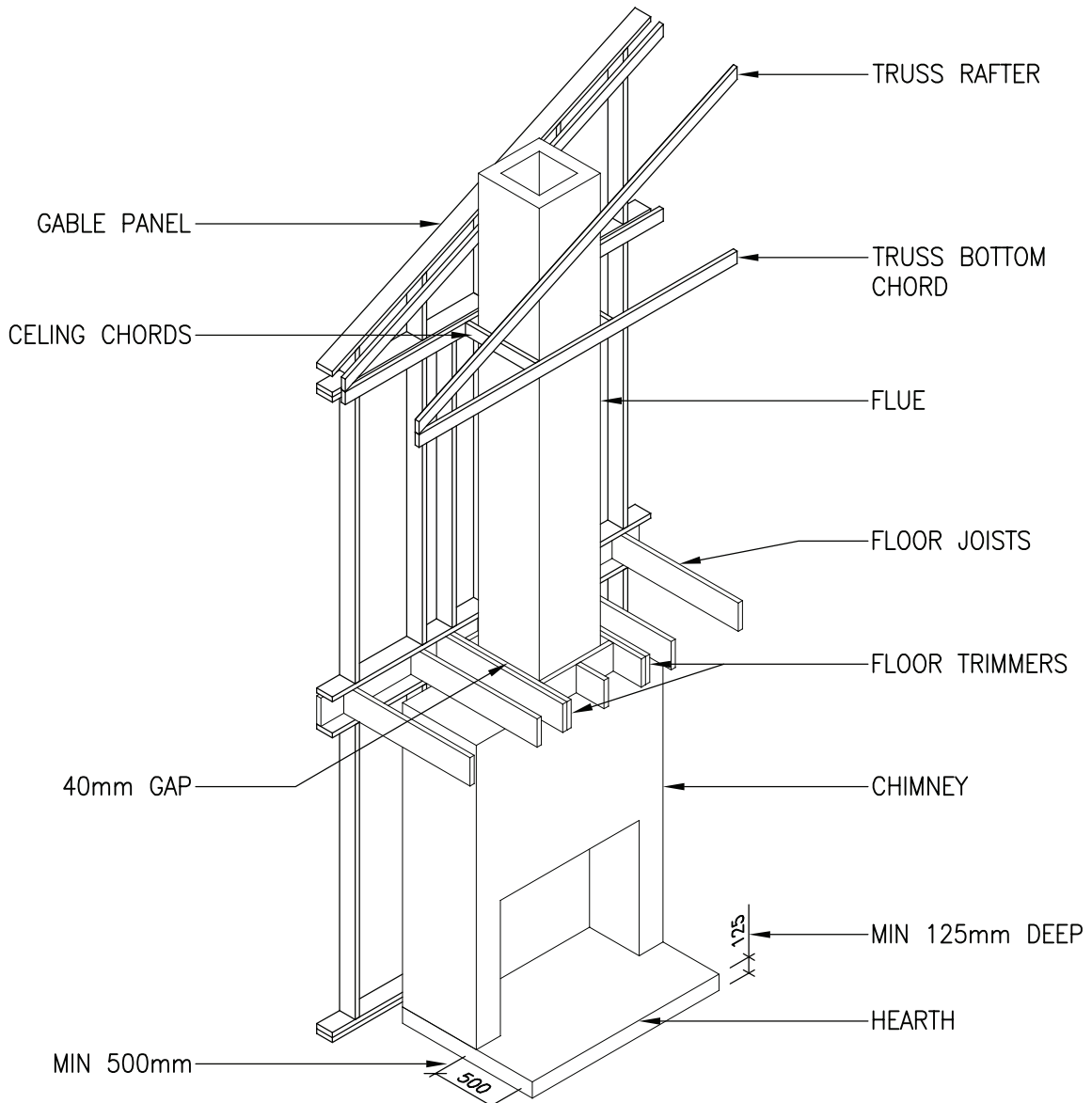
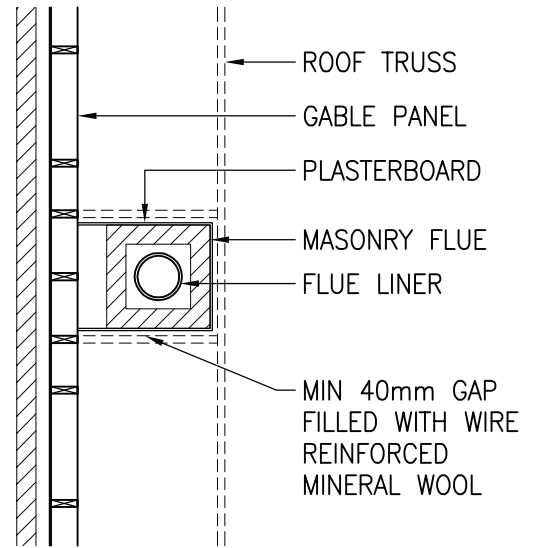
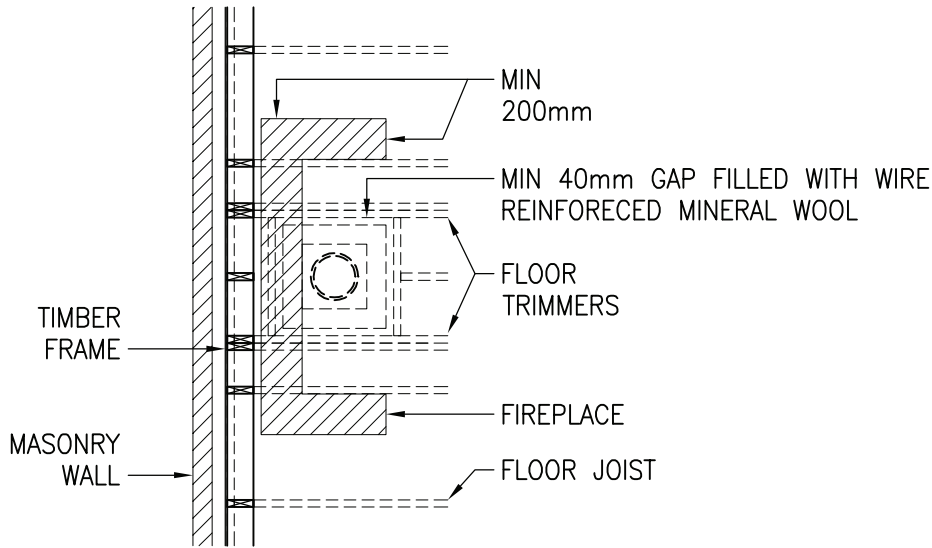
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T.KNIGHT

DATE:
JAN 08

GROUND FLOOR

FIRST FLOOR



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DRAWING TITLE:
SERVICES – CHIMNEY INTERNAL

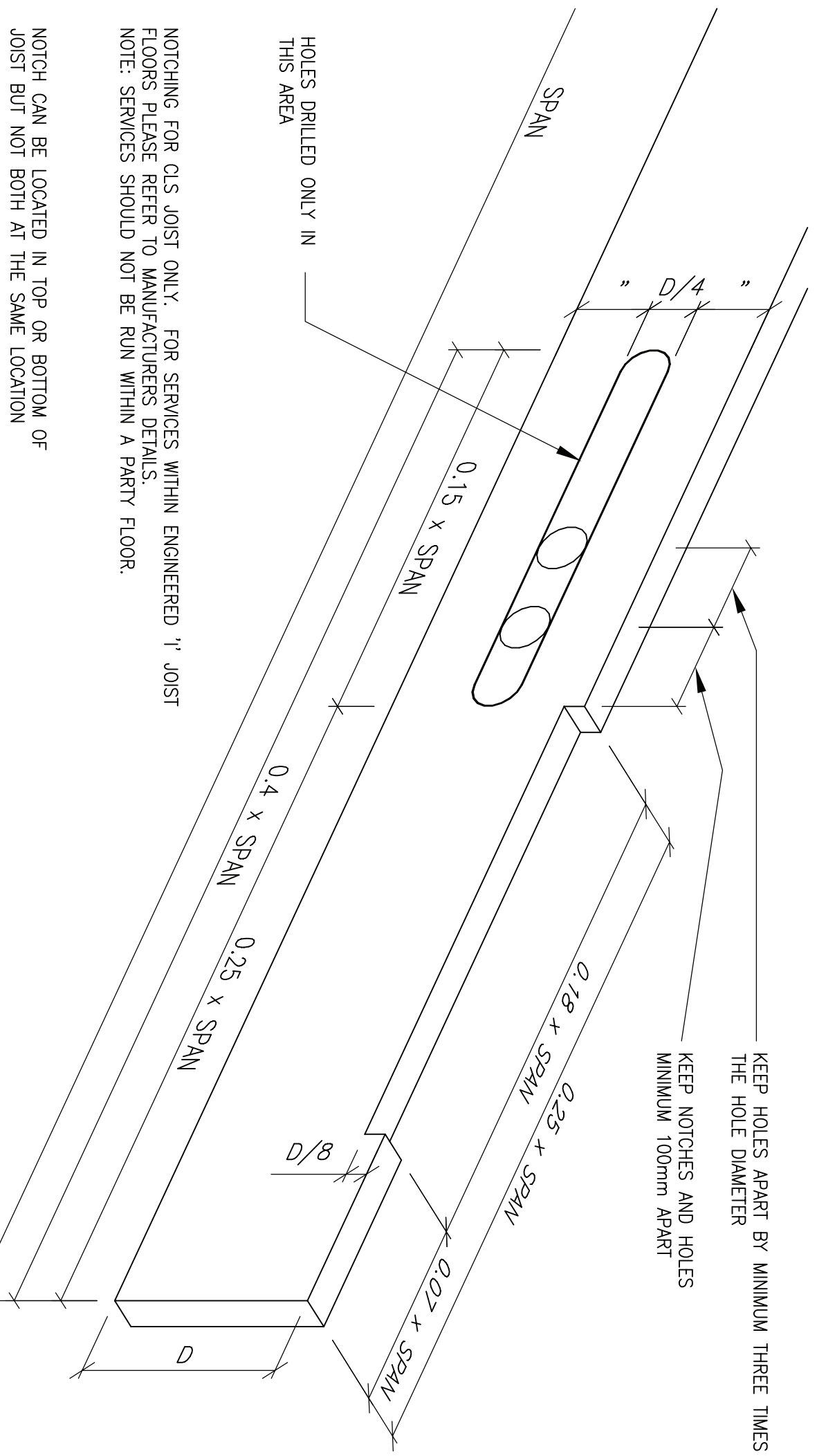
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7.2

REVISION:
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SCALE:
1:40

DRAWN BY:
T.KNIGHT

DATE:
JAN 08



NOTCHING FOR CLS JOIST ONLY. FOR SERVICES WITHIN ENGINEERED 'I' JOIST FLOORS PLEASE REFER TO MANUFACTURERS DETAILS.

NOTE: SERVICES SHOULD NOT BE RUN WITHIN A PARTY FLOOR.

NOTCH CAN BE LOCATED IN TOP OR BOTTOM OF JOIST BUT NOT BOTH AT THE SAME LOCATION

HOLES EXCEEDING THESE DETAILS MUST BE CHECKED WITH STRUCTURAL ENGINEER. HOLES SHOULD BE AVOIDED WITHIN TRIMMERS AND SHOULD BE VERIFIED BEFORE DRILLING.



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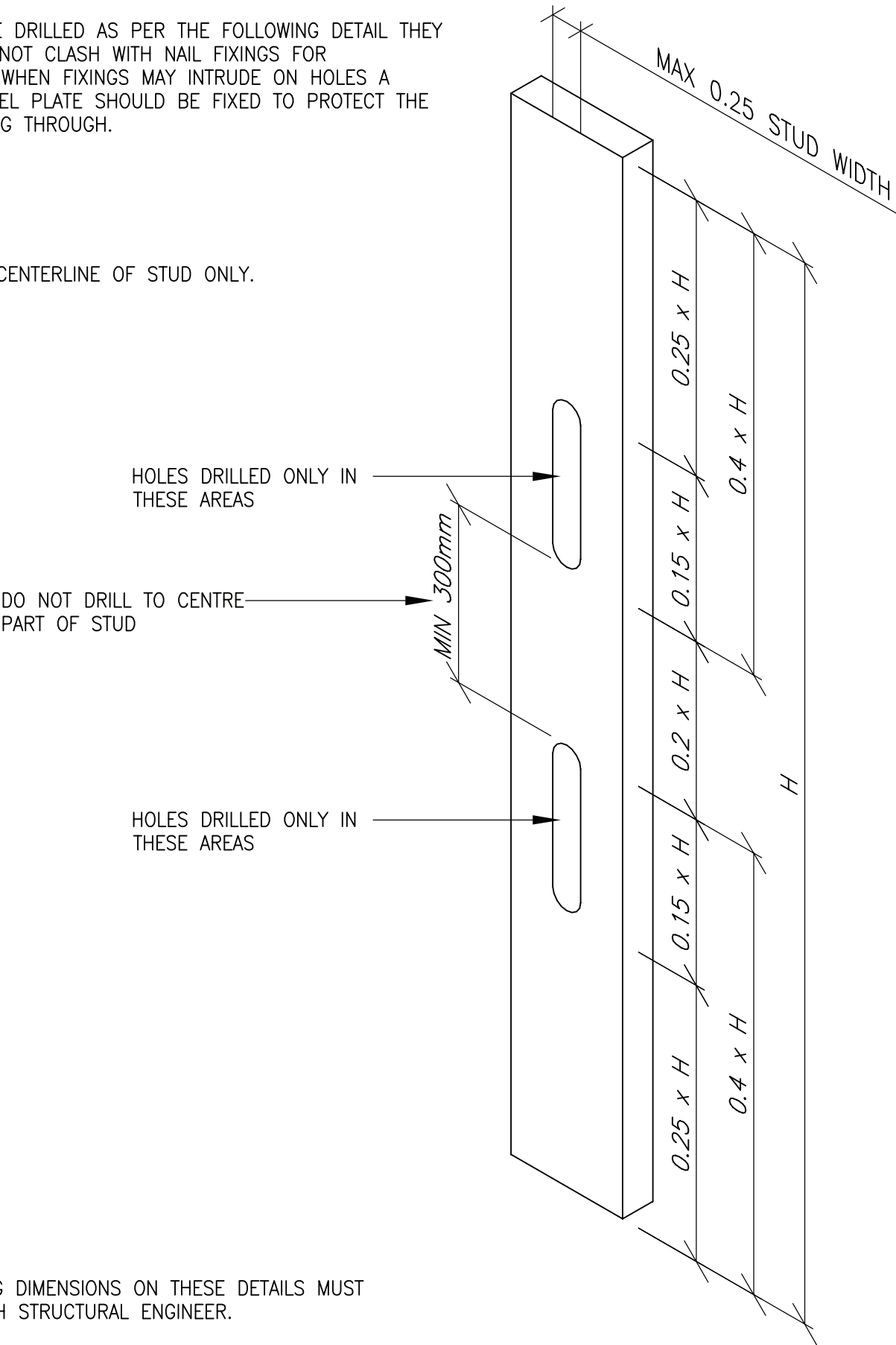
DRAWING TITLE:
SERVICES – NOTCHING AND DRILLING JOISTS

DRAWING No:	REVISION:	SCALE:
7.3	–	1:5


DRAWN BY:	DATE:
T.KNIGHT	JAN 08

WHEN HOLES ARE DRILLED AS PER THE FOLLOWING DETAIL THEY WILL GENERALLY NOT CLASH WITH NAIL FIXINGS FOR PLASTERBOARD. WHEN FIXINGS MAY INTRUDE ON HOLES A PROPRIETARY STEEL PLATE SHOULD BE FIXED TO PROTECT THE SERVICES RUNNING THROUGH.

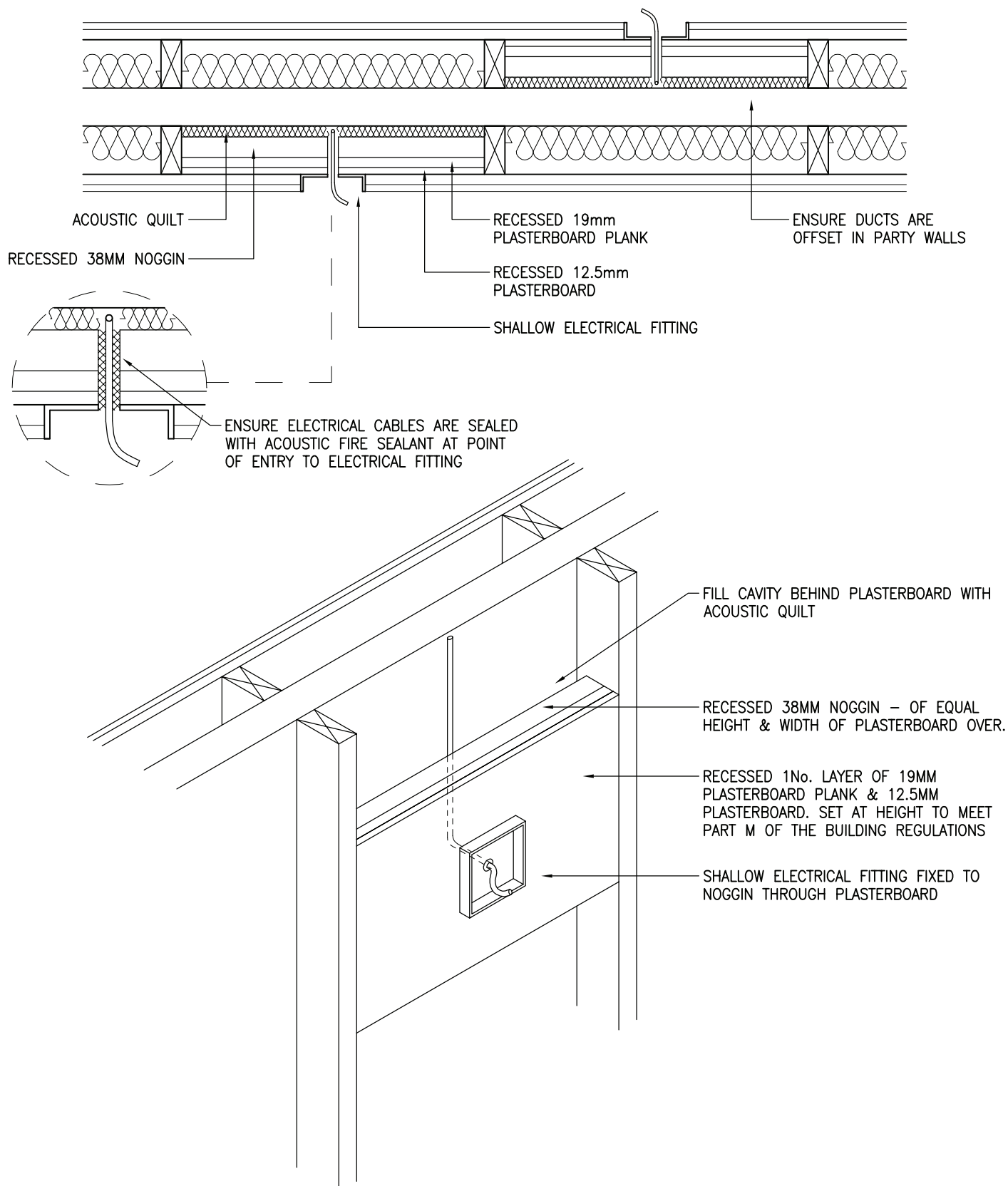
DRILL HOLES IN CENTERLINE OF STUD ONLY.



HOLES EXCEEDING DIMENSIONS ON THESE DETAILS MUST BE CHECKED WITH STRUCTURAL ENGINEER.

 <div>Building 1 Grosvenor Court Hiple Street Old Woking SURREY GU22 9LL</div>	DRAWING TITLE: SERVICES – NOTCHING AND DRILLING STUDS		
	DRAWING No: 7.4	REVISION: –	SCALE: 1:5
	DRAWN BY: T.KNIGHT	DATE: JAN 08	
	TEL: 01483 769518 FAX: 01483 770863 E–MAIL: design@silvatecdesign.com		

SERVICES IN PARTY WALLS SHOULD BE AVOIDED IF POSSIBLE BUT SPECIAL CARE MUST BE TAKEN TO ENSURE INTEGRITY OF FIRE AND ACOUSTIC PERFORMANCE



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DRAWING TITLE:
SERVICES – ELECTRICAL SOCKETS IN
SEPARATING WALLS (SHALLOW FITTING)

DRAWING No:
7.5

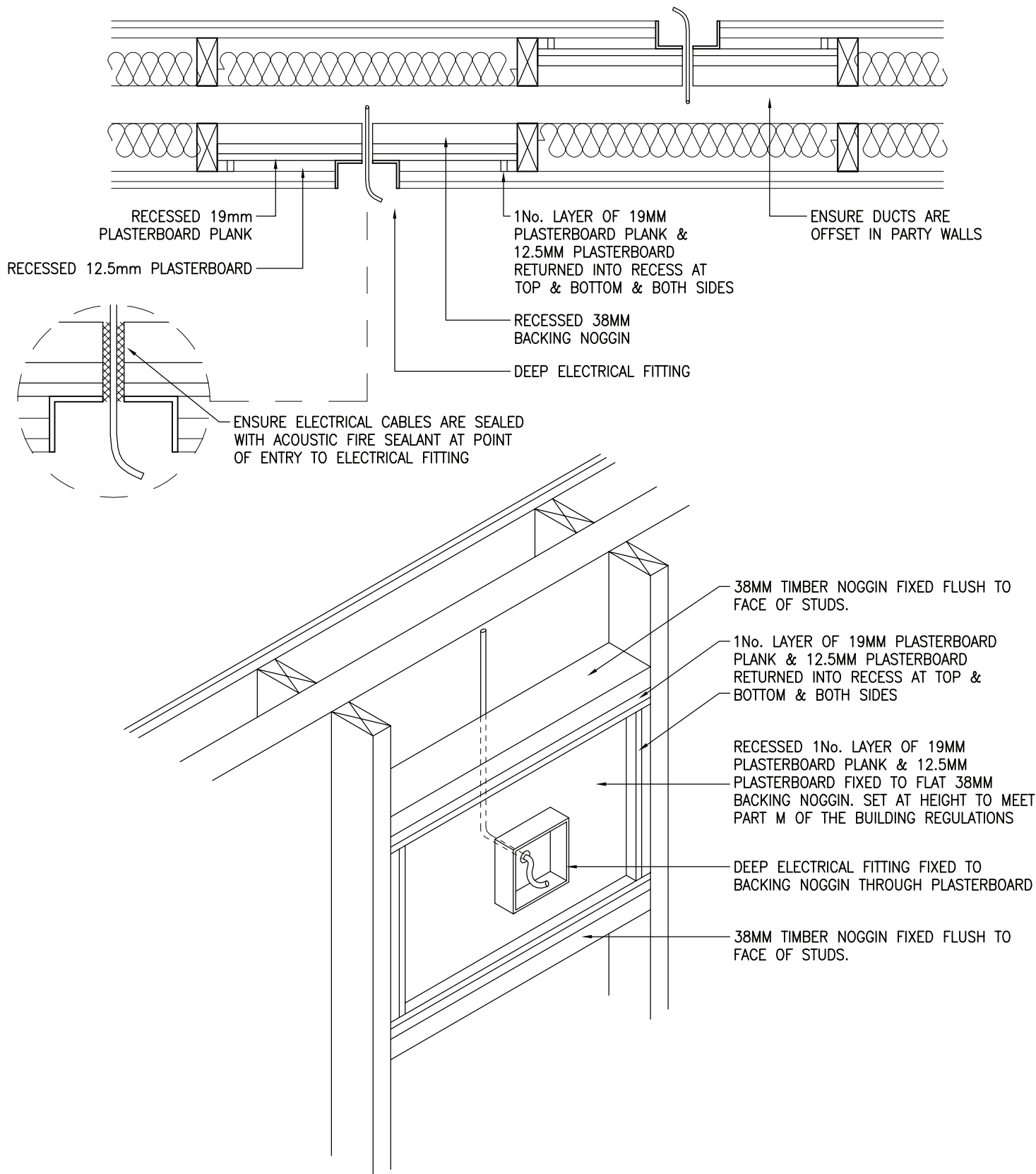
REVISION:
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SCALE:
1:10

DRAWN BY:
T.ROBERTS

DATE:
AUG 09

SERVICES IN PARTY WALLS SHOULD BE AVOIDED IF POSSIBLE BUT SPECIAL CARE MUST BE TAKEN TO ENSURE INTEGRITY OF FIRE AND ACOUSTIC PERFORMANCE



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DRAWING TITLE:
SERVICES – ELECTRICAL SOCKETS IN
SEPARATING WALLS (DEEP FITTING)

DRAWING No:
7.6

REVISION:
–

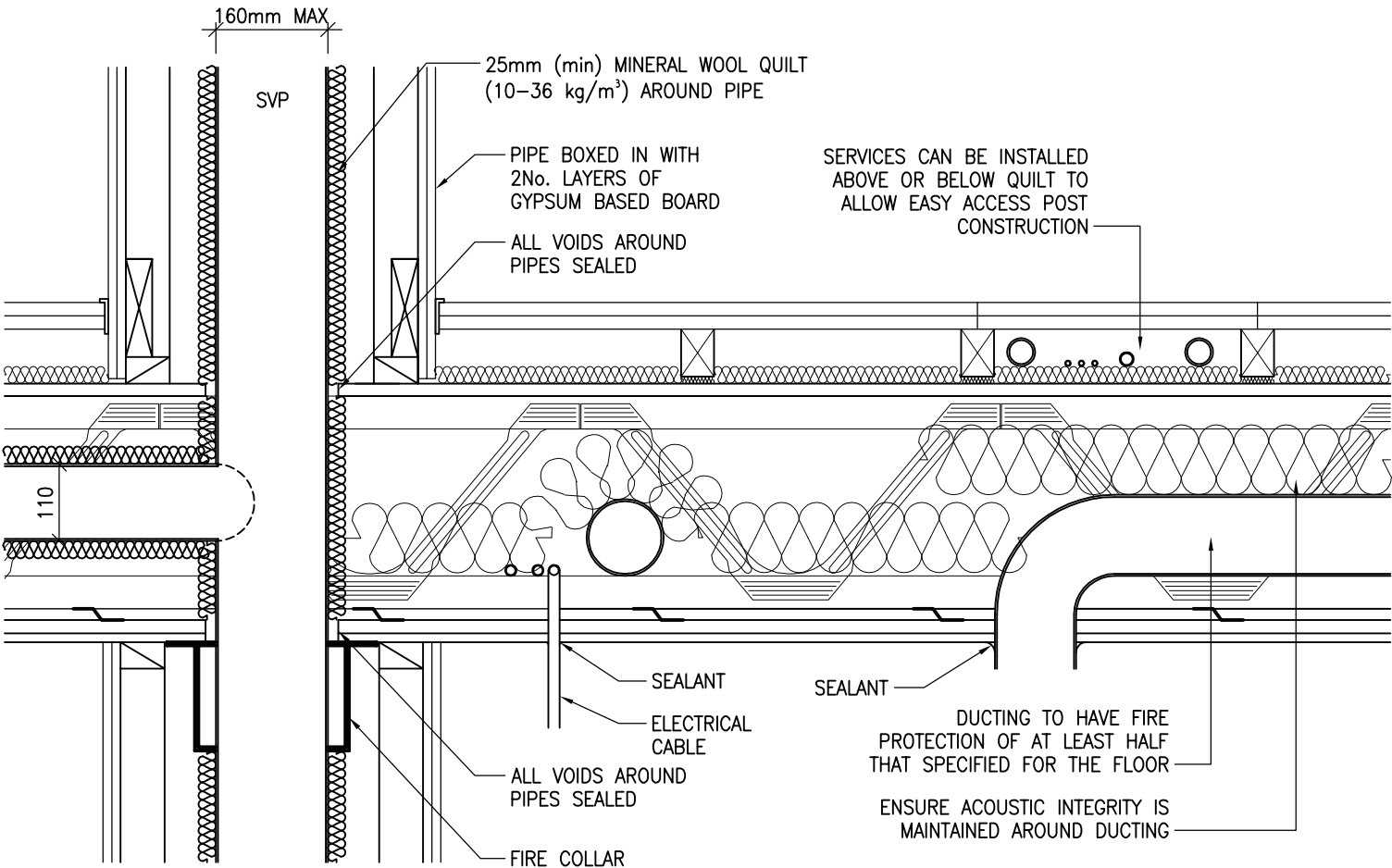
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DRAWN BY:
T.ROBERTS

DATE:
AUG 09

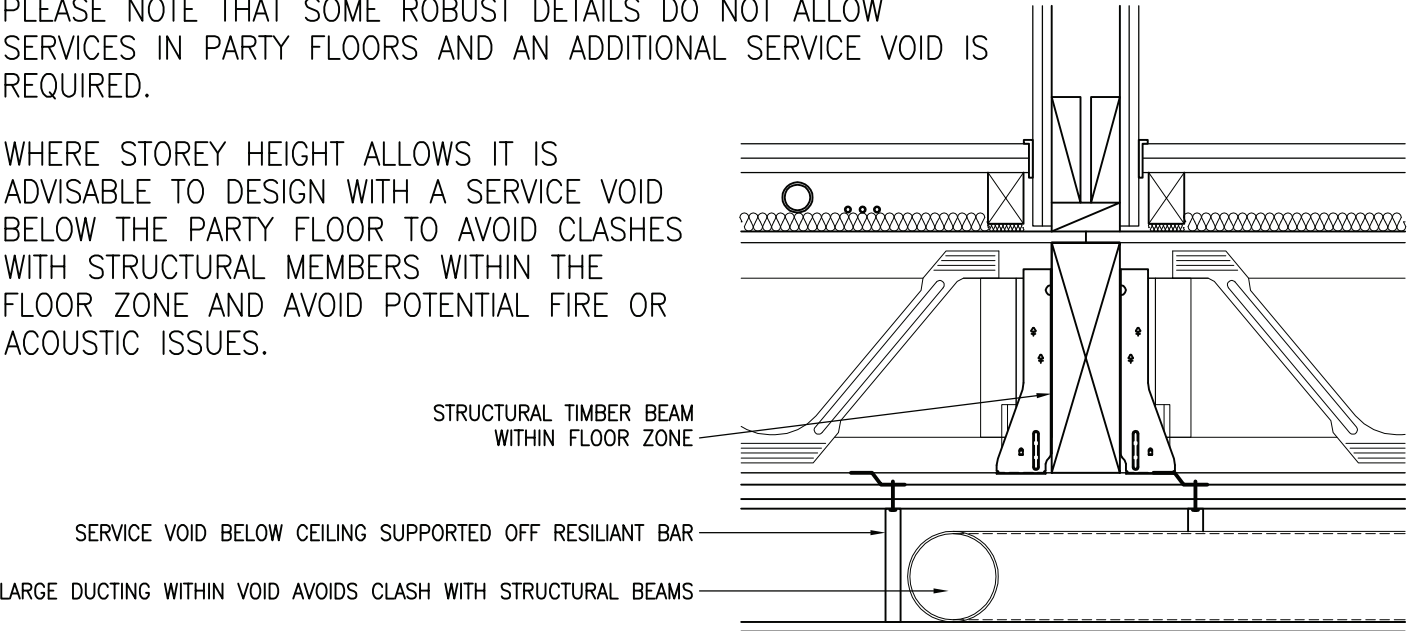
WHEN INSTALLING SERVICES IN PARTY FLOORS CARE MUST BE TAKEN TO MAINTAIN BOTH ACOUSTIC AND FIRE INTEGRITY OF THE FLOOR.


THE FOLLOWING DETAIL IS A GUIDE ONLY AND REFERENCE MUST BE MADE TO THE APPROVED DOCUMENT PART B FOR ALL FIRE ISSUES INCLUDING MAXIMUM PENETRATION SIZES.



PLEASE NOTE THAT SOME ROBUST DETAILS DO NOT ALLOW SERVICES IN PARTY FLOORS AND AN ADDITIONAL SERVICE VOID IS REQUIRED.

WHERE STOREY HEIGHT ALLOWS IT IS ADVISABLE TO DESIGN WITH A SERVICE VOID BELOW THE PARTY FLOOR TO AVOID CLASHES WITH STRUCTURAL MEMBERS WITHIN THE FLOOR ZONE AND AVOID POTENTIAL FIRE OR ACOUSTIC ISSUES.



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	DRAWING No: 7.7	REVISION: -	SCALE: 1:10
	DRAWN BY: T.KNIGHT	DATE: AUG 09	

ALL TIMBER FRAME WALLS MUST BE ERECTED PLUMB TO ENSURE A GOOD QUALITY BUILD, CLEAR CAVITIES ARE MAINTAINED AND ALL STUDS ARE AXIALLY LOADED TO AVOID INDUCED BENDING FROM ECCENTRICITY. TRADA (TIMBER RESEARCH AND DEVELOPMENT AGENCY) RECOMMEND A MINIMUM OF +/- 10mm OVER ANY STOREY WITH NO MORE THAN 10mm CUMMULATIVE OVER THE BUILDING HEIGHT.

STEP 1

PUSH PANEL PLUMB TIGHT TO STUD AND HOLD FIRM DURING FIXING PROCEDURE



STAPLE CORNERS OF PANEL PLUMB TO STUD

NAIL PANEL PLUMB TO STUD WITH 2No. SQUARE TWIST NAILS.
NOTE:
NOT REQUIRED IF ALL 4No. CORNERS ARE STAPLED

STAPLE CORNERS OF PANEL PLUMB TO STUD


STEP 2

ROTATE SETTING OUT ANGLE UNTIL IT BREAKS OFF CLEANLY

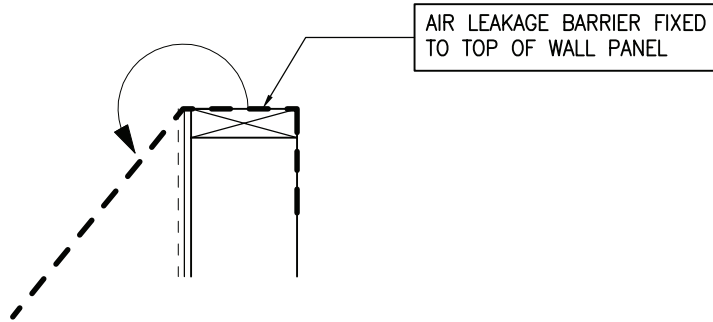
STEP 3

PANEL PLUMB FIXED TO STUD AND LEFT IN PLACE

PANEL PLUMB IS AVAILABLE FROM SILVATEC LEVELS ON THE CONTACT DETAILS BELOW.

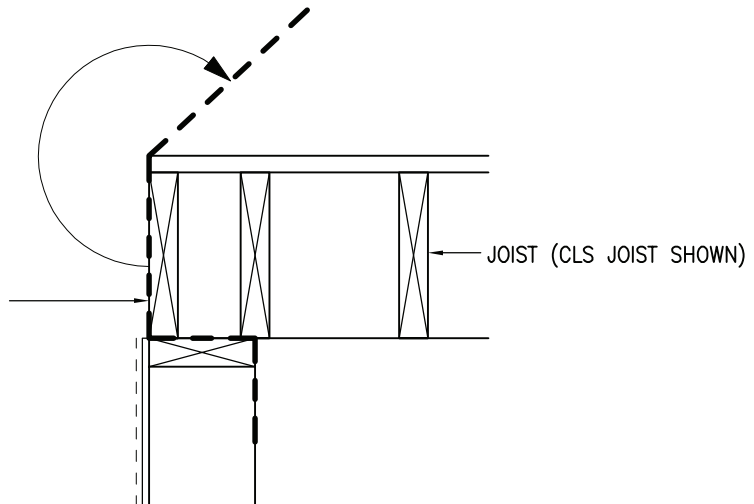
 <p>Building 1 Grosvenor Court Hiple Street Old Woking SURREY GU22 9LL</p> <p>TEL: 01483 769518 FAX: 01483 770863 E-MAIL: design@silvatecdesign.com</p>	DRAWING TITLE: PANEL PLUMB FIXING DETAIL		
	DRAWING No: 8.1	REVISION: A	SCALE: 1:10
	DRAWN BY: T.KNIGHT	DATE: MAR 08	

STEP 1

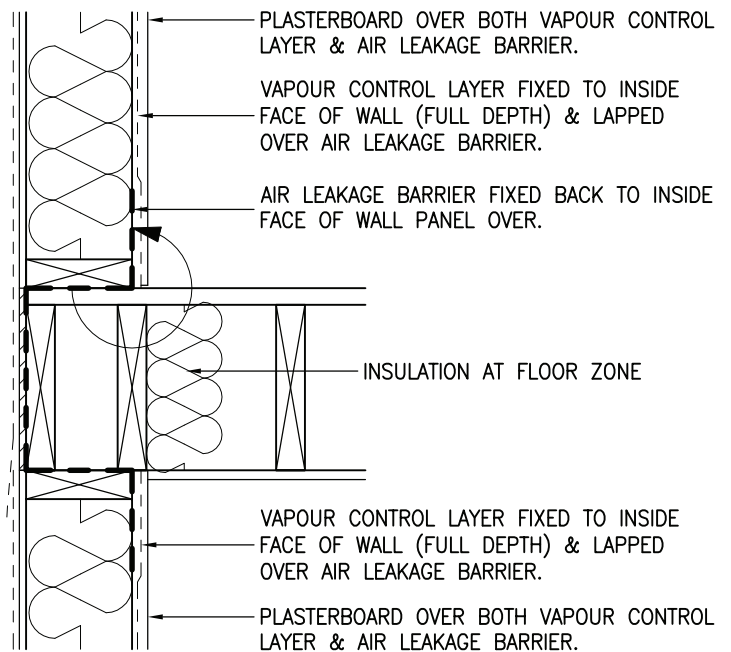


STEP 2

AIR LEAKAGE BARRIER FIXED TO OUTSIDE FACE OF HEADER & DRESSED OVER TOP OF DECK (AFTER INSTALLATION OF FLOOR).



STEP 3



NOTE: DPC IS NOT ACCEPTABLE AS AIR LEAKAGE BARRIER AS THE MOISTURE WILL BE TRAPPED AGAINST THE TIMBERS IN THE FLOOR ZONE. CORRECT MATERIAL MUST BE USED TO ENABLE MOISTURE TO ESCAPE BUT TRAP THE AIR MOLECULES.



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DRAWING TITLE:
AIR LEAKAGE – FLOOR JUNCTION

DRAWING No:
9.1

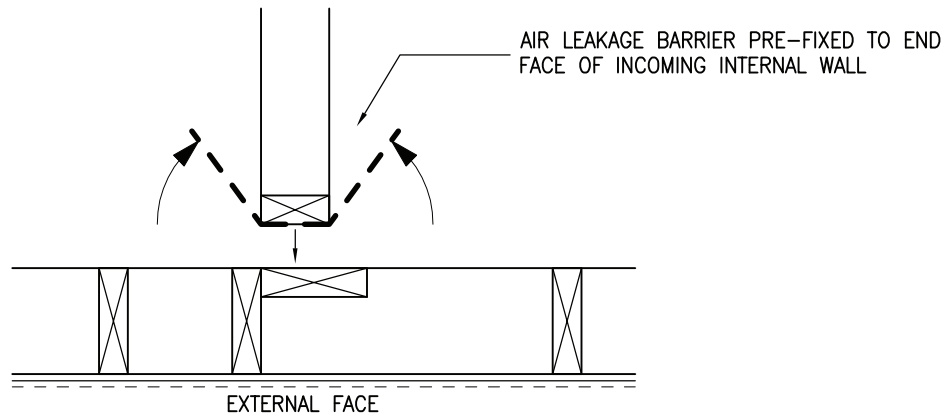
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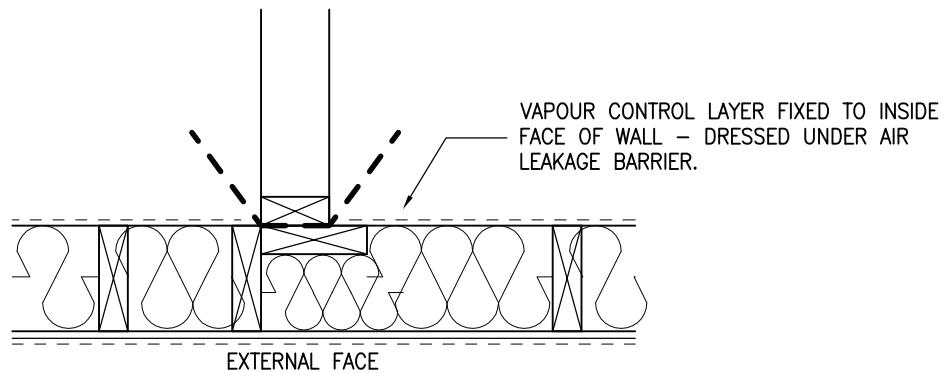
DRAWN BY:
T.ROBERTS

DATE:
NOV 08

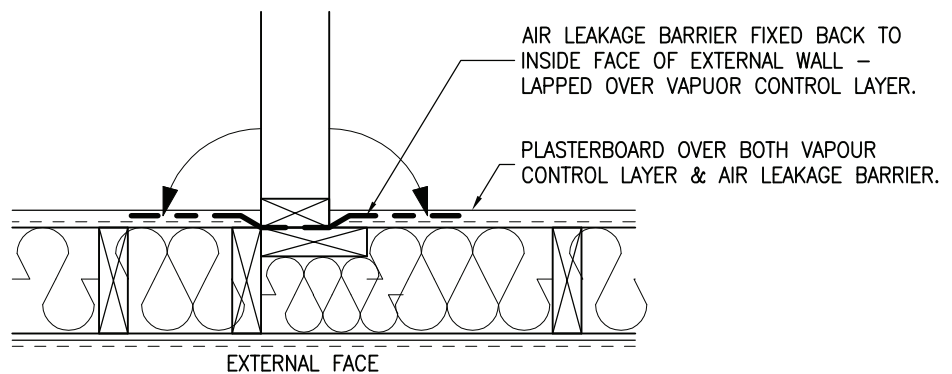
STEP 1



STEP 2



STEP 3



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TEL: 01483 769518
FAX: 01483 770863
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DRAWING TITLE:
AIR LEAKAGE –
INTERNAL TO EXTERNAL WALL JUNCTION

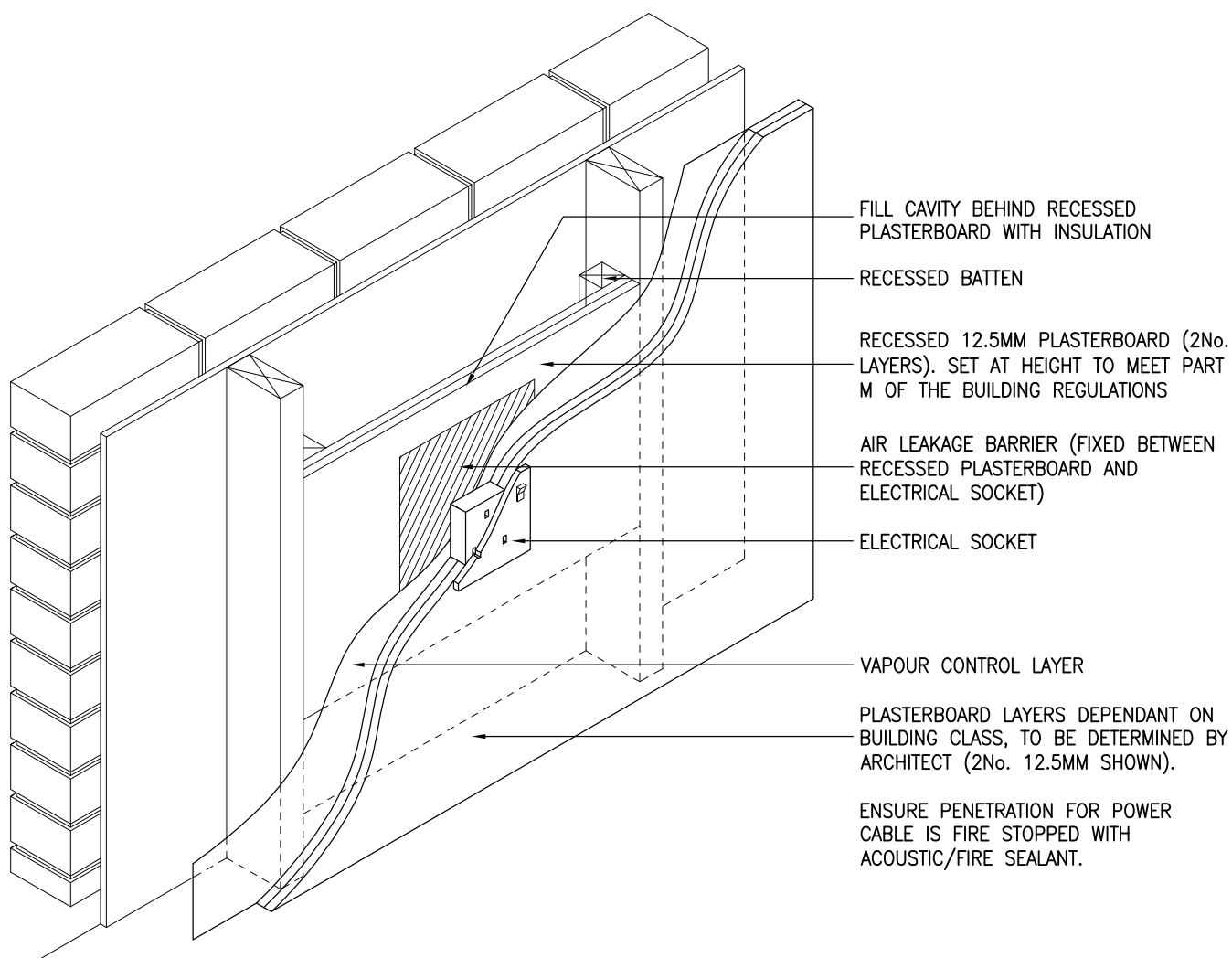
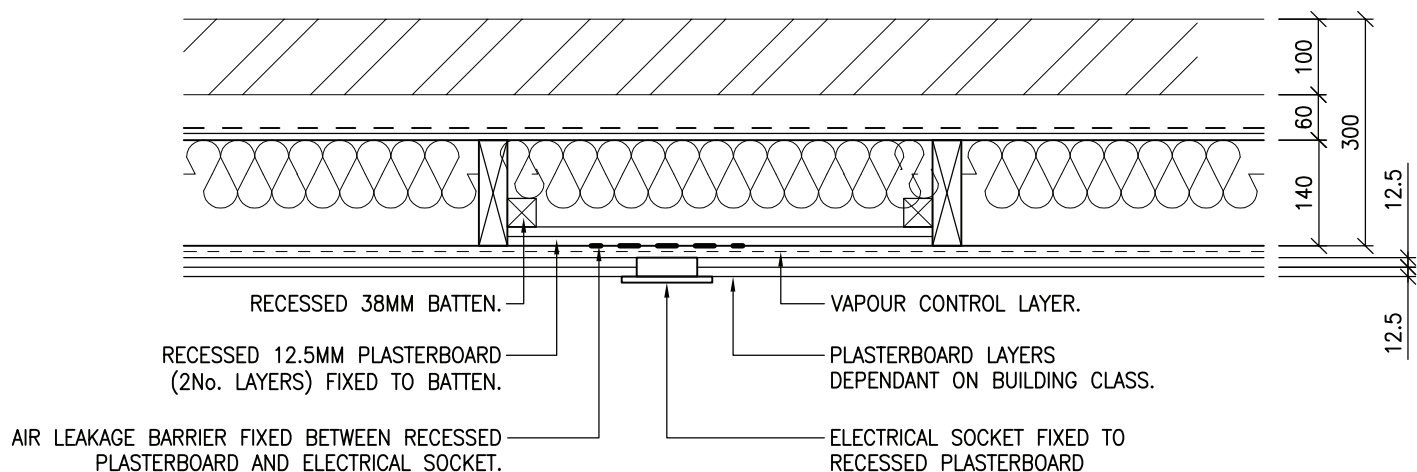
DRAWING No:
9.2

REVISION:
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1:10

DRAWN BY:
T.ROBERTS

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NOV 08



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DRAWING TITLE:
AIR LEAKAGE – ELECTRICAL SOCKETS IN
EXTERNAL WALLS

DRAWING No:
9.3

REVISION:
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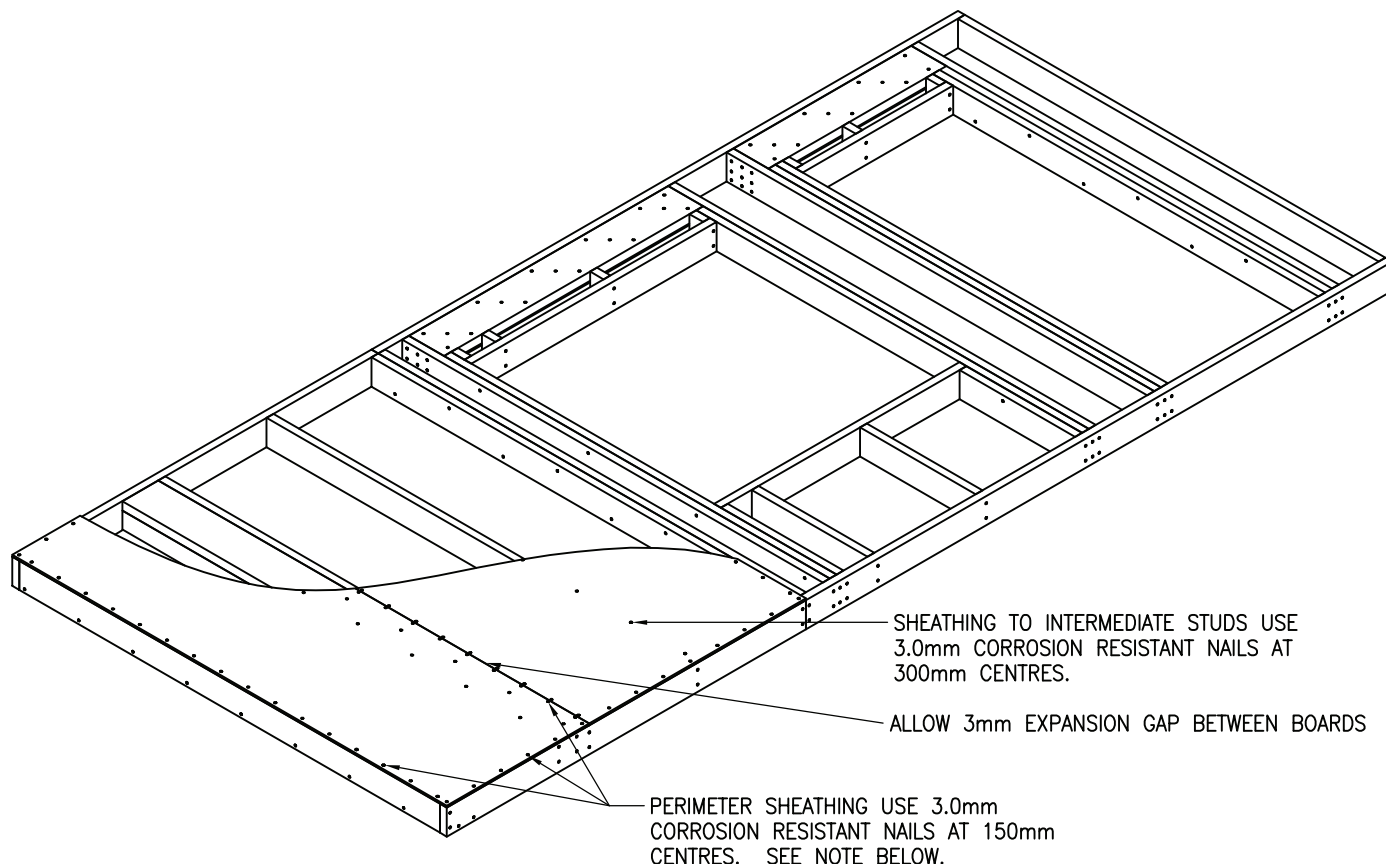
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T.ROBERTS

DATE:
DEC 08

LINTOLS :

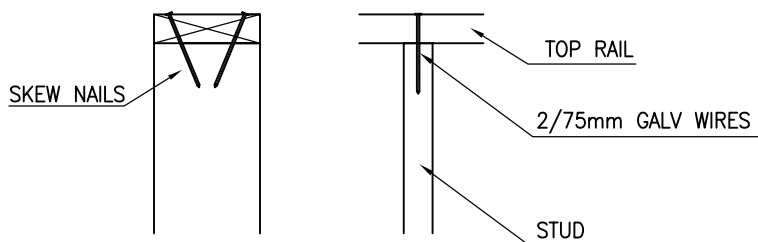
- LEAVES OF LINTOLS SHOULD BE NAILED TOGETHER WITH TWO STAGGERED ROWS FOR 90mm AND 140mm LINTOLS AND THREE ROWS FOR 194mm AND 235mm LINTOLS.
- ALL LINTOLS COMPRISING TWO 38mm THICK LEAVES ARE TO HAVE 9mm OSB SANDWICH.
- EACH LEAF OF THE LINTOL IS TO BE NAILED TO THE ADJACENT FULL HEIGHT STUD WITH : TWO NAILS FOR 90mm, THREE NAILS FOR 140mm, FOUR NAILS FOR 194 AND 235.
- IN ADDITION NAIL LEAVES THROUGH TOP RAIL AT 300mm CENTRES.



THE SHEATHING NAILING PATTERN SHOWN ABOVE IS THE STANDARD REQUIREMENT FOR THE BASIS OF THE RACKING CALCULATIONS AS PER BRITISH STANDARD BS5268-6. IT IS NOT UNCOMMON FOR MANUFACTURERS TO DEVIATE FROM THE STANDARD NAIL DIAMETER AND THIS DEVIATION MUST BE ALLOWED FOR WITHIN THE RACKING CALCULATIONS. THE NAILS CAN RANGE BETWEEN 2.55mm AND 3.75mm AS PER THE BRITISH STANDARDS AND EACH SMALL CHANGE CAN HAVE A SIGNIFICANT EFFECT ON THE CALCULATIONS. IT IS ALSO NOT UNCOMMON FOR NAIL CENTRES TO BE DECREASED AND NAIL DIAMETERS INCREASED WITHIN THE RACKING CALCULATIONS TO PROVIDE THE NECESSARY RESISTANCE TO THE WIND. IT IS THEREFORE IMPERATIVE THAT NAIL DIAMETERS AND CENTRES ARE MARKED ON THE MANUFACTURING DRAWINGS FOR EACH PANEL.

IF A WALL PANEL IS ISSUED FOR PRODUCTION WITHOUT A SHEATHING NAILING SPECIFICATION THEN THE PRODUCTION MANAGER MUST CHECK WITH THE TIMBER FRAME DESIGNER TO CONFIRM DIAMETERS AND CENTRES.

NAILING SPECIFICATION FOR TOP AND BOTTOM RAILS TO STUDS



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DRAWING TITLE:
NAILING DETAILS –
WALL PANEL ASSEMBLY

DRAWING No:
10.1

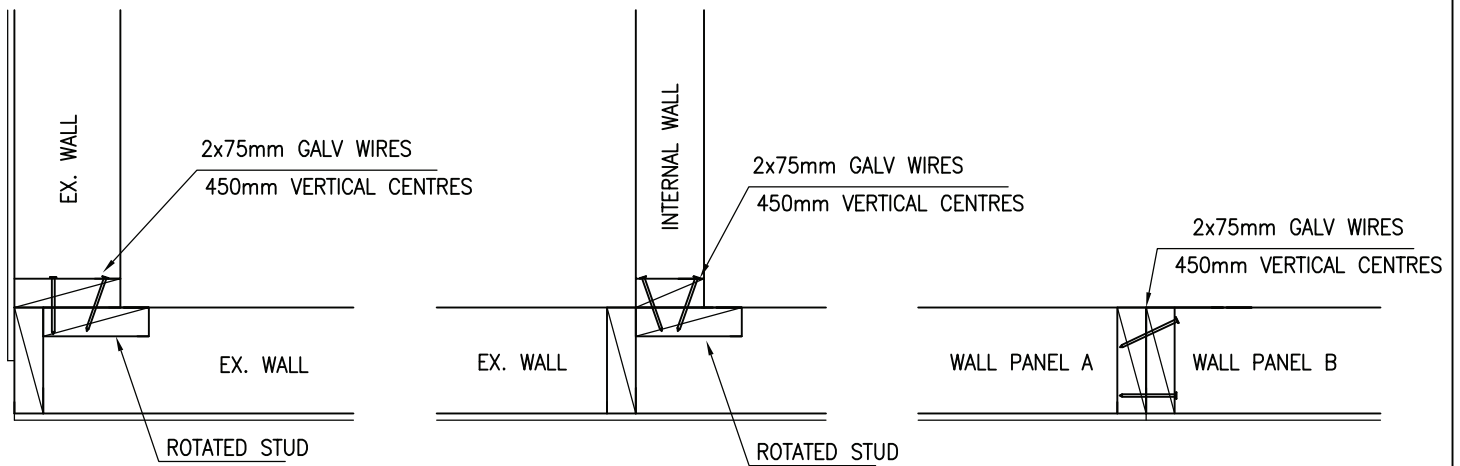
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SCALE:
NTS

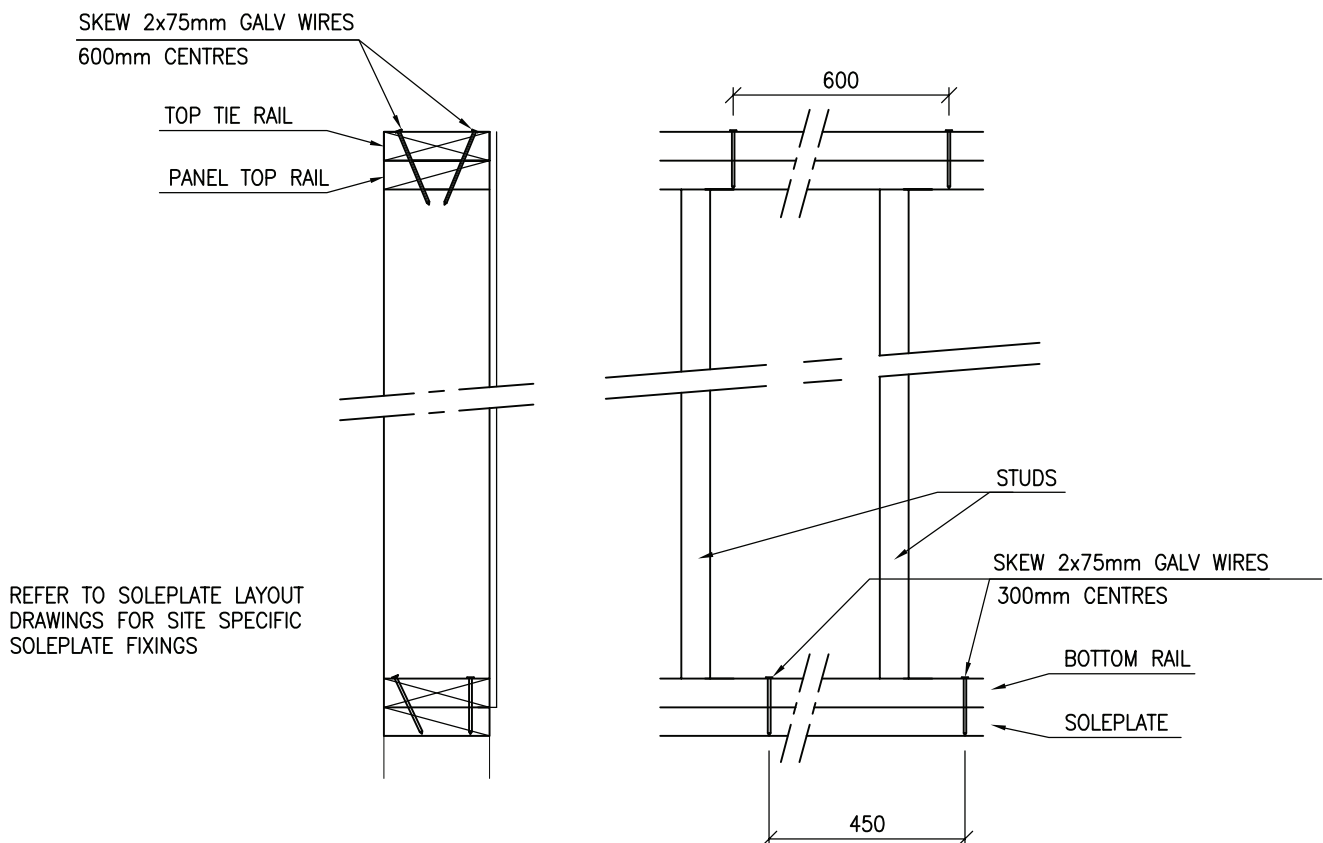
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NAILING SPECIFICATION BETWEEN PARTICULAR PANELS



NAILING SPECIFICATION FOR PANEL-SOLEPLATE AND PANEL-TOP TIE RAIL



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DRAWING TITLE:
NAILING DETAILS –
WALL PANEL CONNECTIONS

DRAWING No:
10.2

REVISION:
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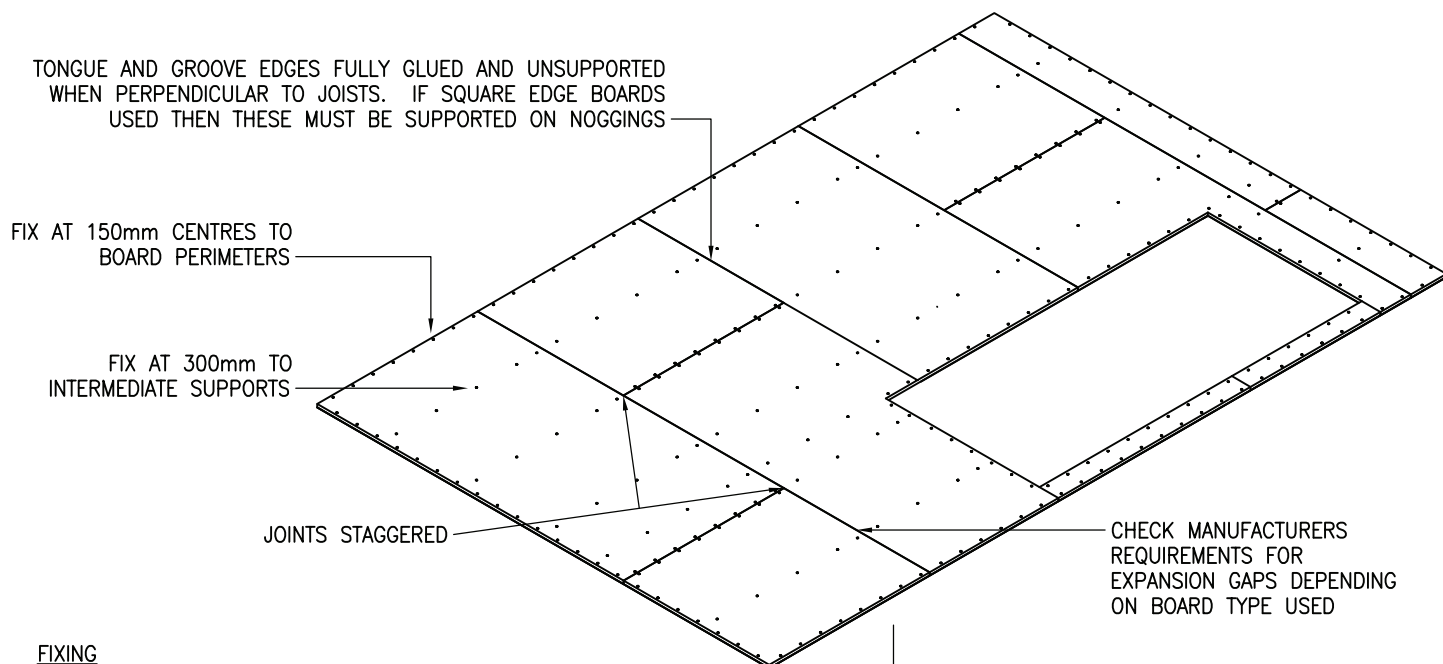
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M.SINGLIAR

DATE:
DEC 08

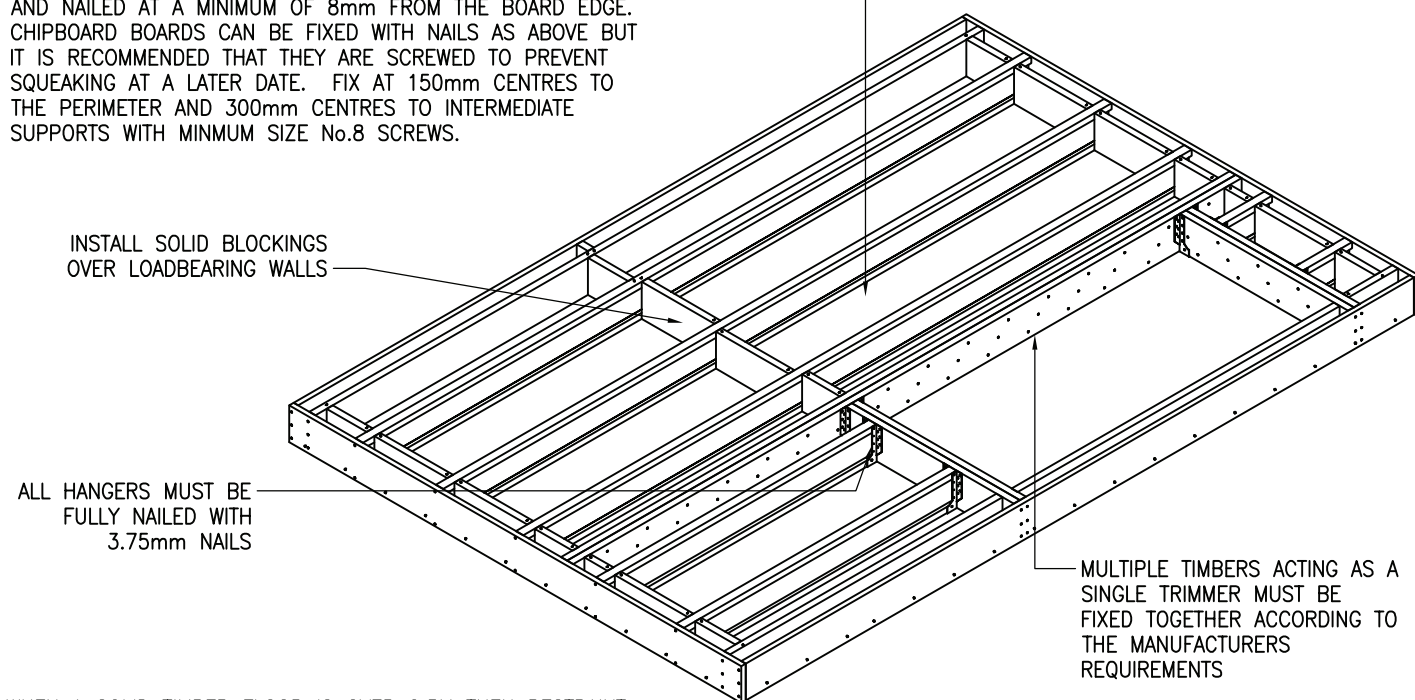
DECKING

ENSURE ALL SQUARE EDGE OF BOARDS ARE FULLY SUPPORTED ON JOISTS OR ALTERNATIVELY ON NOGGINGS BETWEEN JOISTS.
TONGUE AND GROOVED EDGES CAN BE UNSUPPORTED WHEN THEY RUN PERPENDICULAR TO THE JOISTS.
ALL BOARDS SHOULD BE LAID WITH THE ENDS STAGGERED.
ALL TONGUED AND GROOVED JOINTS SHOULD BE GLUED WITH PVAC OR SIMILAR.
REFER TO MANUFACTURERS SPECIFICATION FOR INTERMEDIATE EXPANSION GAPS BETWEEN BOARDS DEPENDING ON THE BOARD TYPE USED.



FIXING

ALL TONGUE AND GROOVE BOARDS SHOULD BE GLUED WITH A POLYVINYL ACETATE (PVAC) OR SIMILAR DIRECTLY TO THE JOIST.
PLY OR OSB BOARDS CAN BE FIXED WITH 3.0mm ANNULAR RINGSHANK NAILS AT 150mm CENTRES TO THE BOARD PERIMETERS AND 300mm CENTRES TO THE INTERMEDIATE SUPPORTS. NAILS MUST BE 2.5 TIMES THE BOARD THICKNESS AND NAILED AT A MINIMUM OF 8mm FROM THE BOARD EDGE.
CHIPBOARD BOARDS CAN BE FIXED WITH NAILS AS ABOVE BUT IT IS RECOMMENDED THAT THEY ARE SCREWED TO PREVENT SQUEAKING AT A LATER DATE. FIX AT 150mm CENTRES TO THE PERIMETER AND 300mm CENTRES TO INTERMEDIATE SUPPORTS WITH MINIMUM SIZE No.8 SCREWS.



WHEN A SOLID TIMBER FLOOR IS OVER 2.5M THEN RESTRAINT STRUTTING OR FULL DEPTH NOGGINGS ARE REQUIRED. OVER 4.5M 2No. ROWS ARE REQUIRED AT EQUAL SPACING.



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DRAWING TITLE:
NAILING DETAILS –
FLOOR ASSEMBLY

DRAWING No:
10.3

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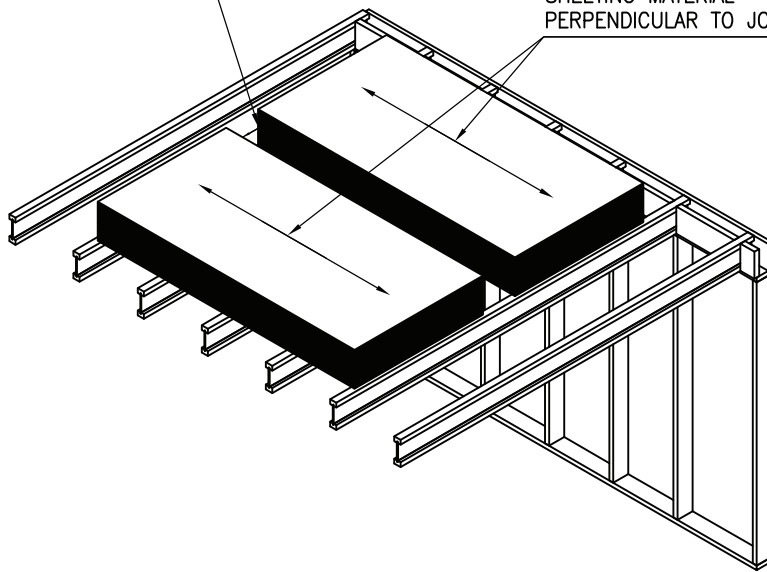
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DATE:
DEC 08

GAP (MIN.300mm) BETWEEN
STACKS REQUIRED FOR
SHEET HANDLING.

SHEETING MATERIAL – STORED
PERPENDICULAR TO JOIST DIRECTION

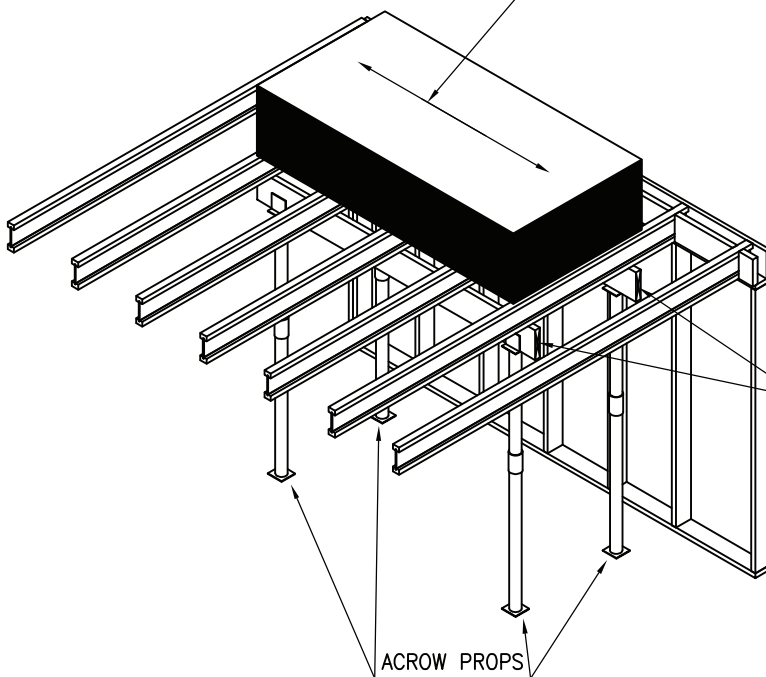


STANDARD STORAGE

PERMISSIBLE QUANTITY OF SHEETS	
MATERIAL	MAX. NO OF SHEETS
CHIPBOARD (22mm)	9
OSB/PLY (9mm)	25
OSB (15mm)	15
PLY WBP (19mm)	12
PLASTERBOARD (12.5mm)	15
PLASTERBOARD (15mm)	12
PLASTERBOARD (19mm)	9

NOTE: DON'T EXCEED PERMISSIBLE QUANTITY OF SHEETS PER ONE STACK. PERMISSIBLE QUANTITY OF CHOSEN MATERIALS ARE SHOWN IN TABLE ABOVE.

SHEETING MATERIAL – STORED
PERPENDICULAR TO JOIST DIRECTION



SPREADER BEAMS

ACROW PROPS

SUPPORTED STORAGE

ENSURE THAT THE FLOOR IS SECURELY PROPPED PRIOR TO LOADING THE FLOOR WITH ANY LOAD GREATER THAN SPECIFIED IN TABLE. FOR TYPICAL JOIST PROPPING ARRANGEMENT SEE SKETCH – SUPPORTED STORAGE. ON MULTIPLE FLOOR BUILDINGS, PROPS WILL OBVIOUSLY HAVE TO BE CONTINUED THROUGH ALL SUBSEQUENT FLOORS DOWN TO THE OVERSITE.



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DRAWING TITLE:
SHEET MATERIAL ON JOISTS

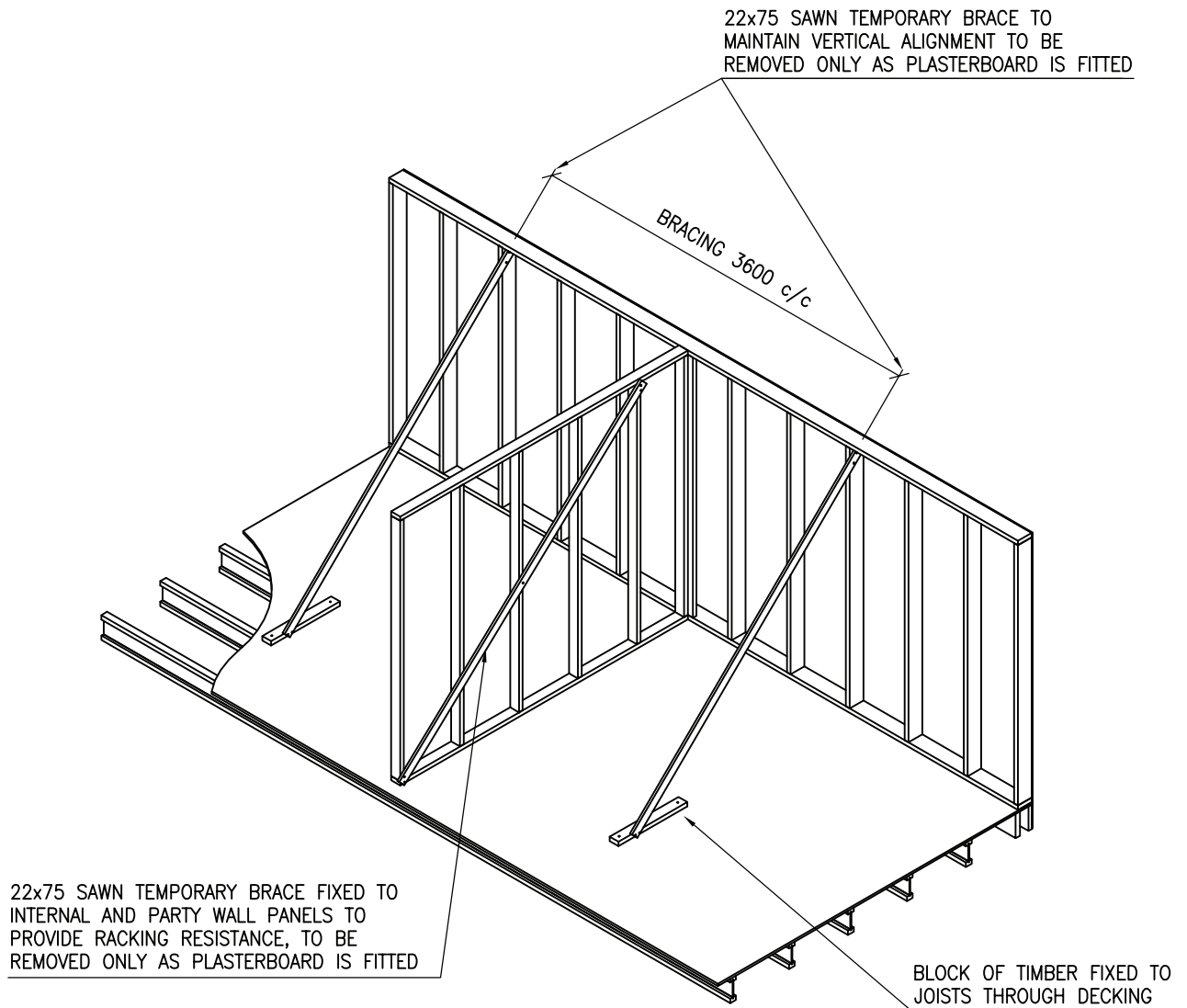
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1:50

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DATE:
JULY 09



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TEMPORARY BRACING

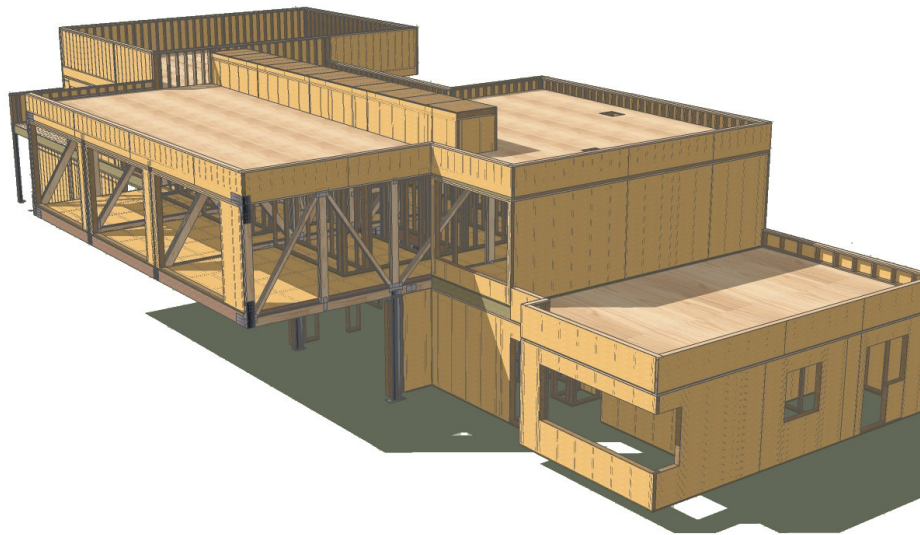
DRAWING No:
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REVISION:
-

SCALE:
NTS

DRAWN BY:
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DATE:
JULY 09



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