

# [35] TRITHERM HANDI BRACKET™/FASTCLAD MANUAL

<b>IMPORTANT NOTES :</b>	1) All steelwork or supporting structure shown are <u>indicative only</u> of face area and levels required and subject to final engineers design 2) Use isolating tape between dissimilar metals where applicable 3) Aluminium flashings should be installed with 2mm oversize holes to allow for expansion – i.e. allow 1mm per metre of length	Page	1
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## Notes

- 1) Tritherm system for FASTCLAD brickslip system is a non combustible support assembly and can be manufactured as required in:
  - a) Structural grade steel – galvanised to Z275/gr/m<sup>2</sup>
  - b) As a) above with additional 60 micron marine grade polyester powder coating (PPC) to all faces as additional protection if required.
  - c) Also available in plain finish structural grade 304 Stainless steel.
- 2) Thermal break ISO pads manufactured from non-combustible (NC) materials.
- 3) APL Handi-Brackets have +22mm adjustment to each bracket – available in various depths from 47mm to 325mm to provide cavity depths incl 50 mm vented cavity.
  - a) Minimum 124 mm (with SFS) – 162 minimum (with blockwork)
  - b) Standard Maximum 387mm – additional non-standard depths available.
- 4) All fixings to be stainless steel – available per project from Architectural Profiles.
- 5) Insulation/U-values
  - a) Insulation as required to cavity and internal SFS stud assembly to provide required 'through wall' U-value – mineral fibre illustrated
  - b) 0.15 Wmk can be achieved with 150mm thick non-combustible stonewool (Rockwool/Knauf @ K=0.034) in 200mm deep external cavity and 150mm thick stonewool (K=0.038) between internal SFS studs + plasterboard internal linings
  - c) with rigid board of required thickness and type in external cavity + internal mineral fibre insulation to SFS studs etc as before
  - d) with combination of above as required with solid blockwork internal skin.
- 6) All layouts subject to APL Engineer structural checks and loads calculation(s) per project.



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Notes cont'd...

- 4) all steels structural grade and galvanised z275/gm/m<sup>2</sup>
- 5) all fixings to be stainless steel

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GENERAL NOTES  
 FOR TRITHERM SYSTEM with  
 FASTCLAD brickslip system

[35] 00-01 [4]

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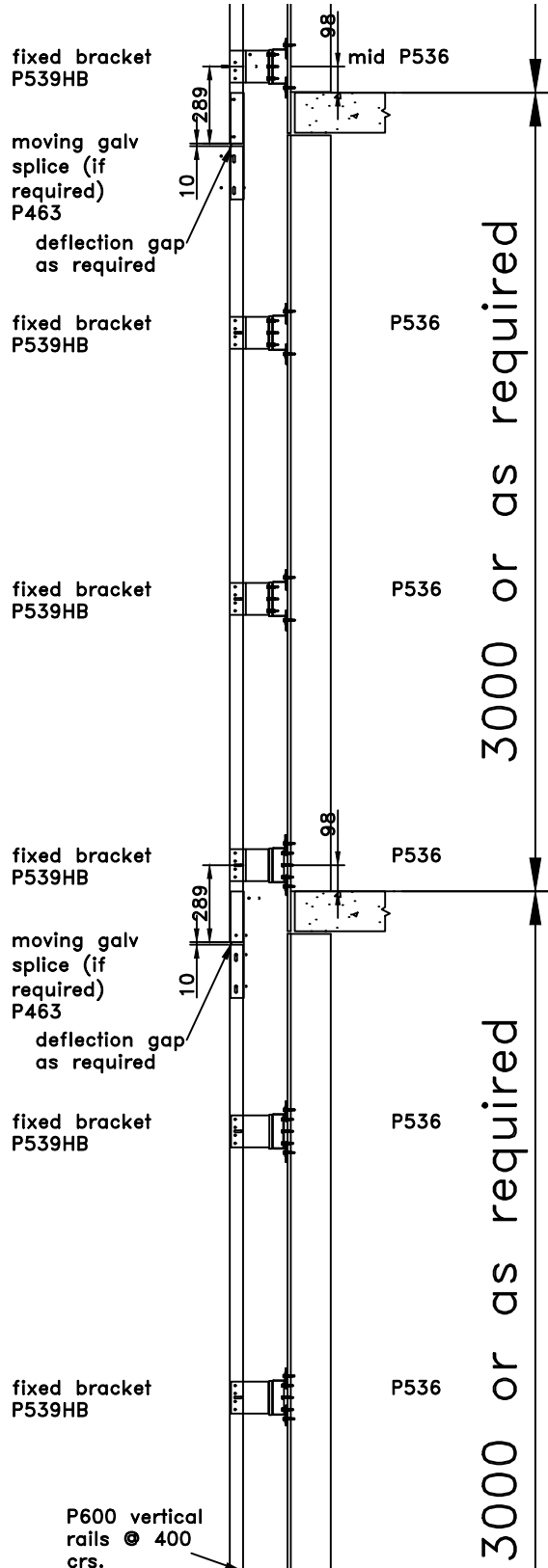
Page

2

**Note**

- a) All Handi Brackets® (HB) have +22mm adjustment
- b) All support crs. as required by APL load/span calculation
- c) Full height mullion system available to span floor to floor

Typical floor layout - repeating upwards



Notes Cont'd...

- 4) all steels structural grade and galvanised z275/gm/m2
- 5) all fixings to be stainless steel

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TYPICAL SECTION  
 TO STUD  
 Fastclad brickslip system

[35] 00-03 [4]

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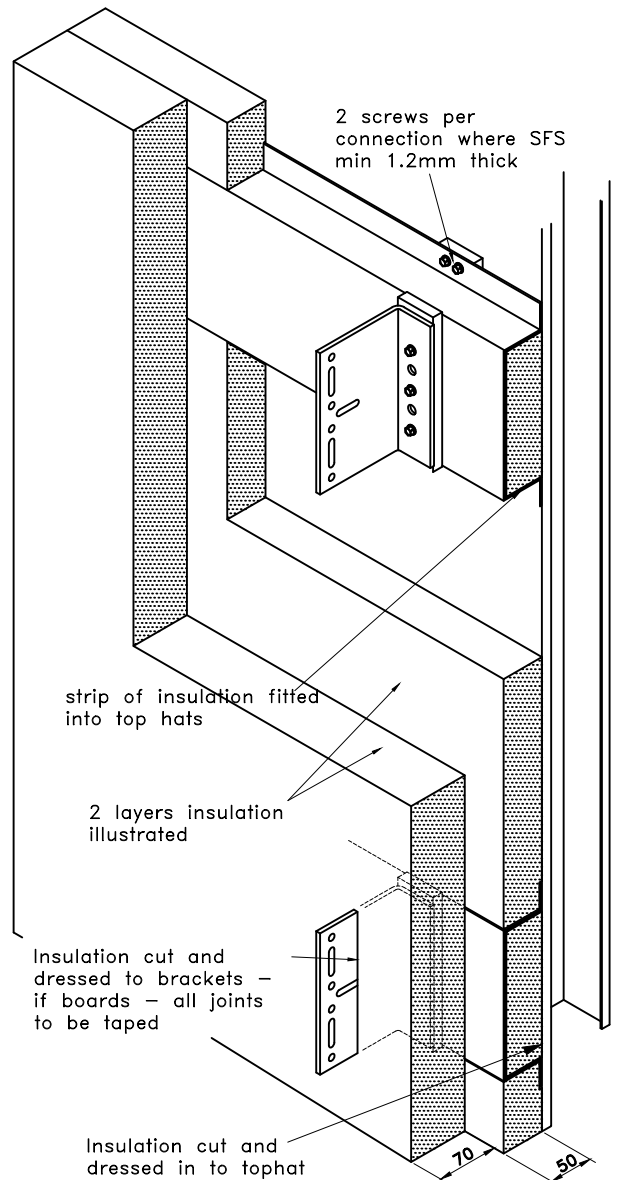
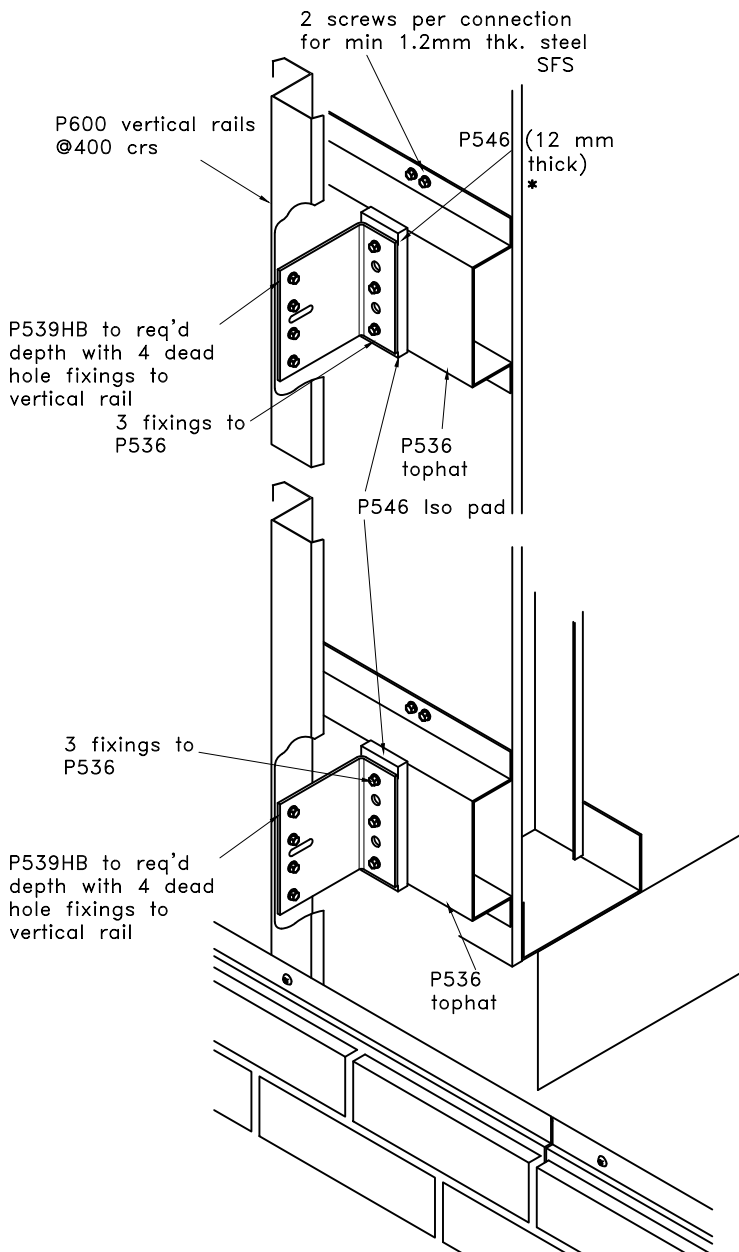
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Note

- a) All Handi Brackets® (HB) have +22mm adjustment
- b) All support crs. as required by APL load/span calculation



Insulation illustrated – to be type as required as specification



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Notes cont'd...

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**TYPICAL ARRANGEMENT  
 TO STUD  
 Fastclad brickslip system**

[35] 01-02 [4]

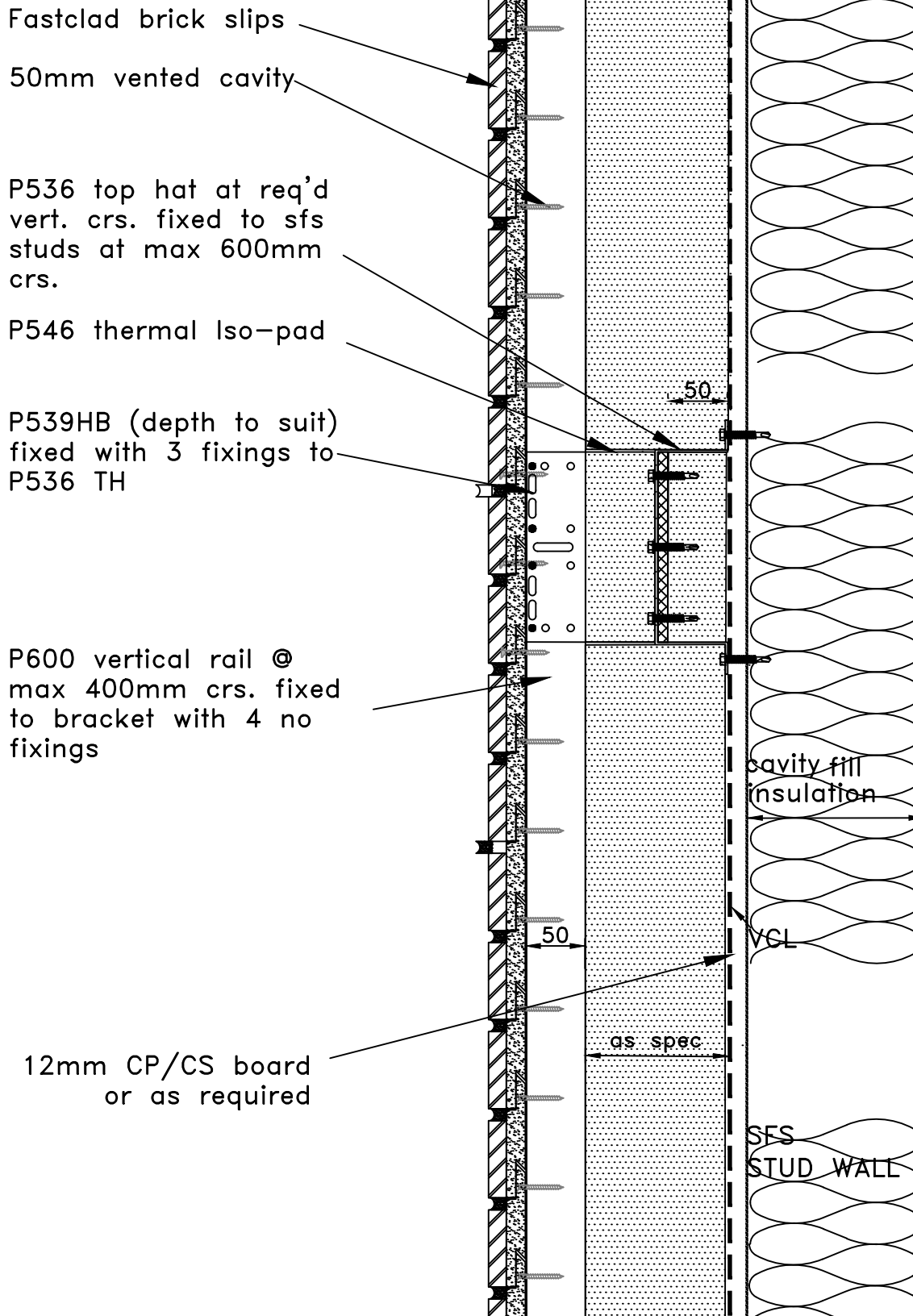
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Fastclad brick slips

50mm vented cavity

P536 top hat at req'd vert. crs. fixed to sfs studs at max 600mm crs.

P546 thermal Iso-pad

P539HB (depth to suit) fixed with 3 fixings to P536 TH

P600 vertical rail @ max 400mm crs. fixed to bracket with 4 no fixings

12mm CP/CS board or as required

cavity fill insulation

VCL

as spec

SFS STUD WALL



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**TYPICAL ARRANGEMENT  
 VERTICAL SECTION  
 TO SFS**

[35] 02-01 [4]

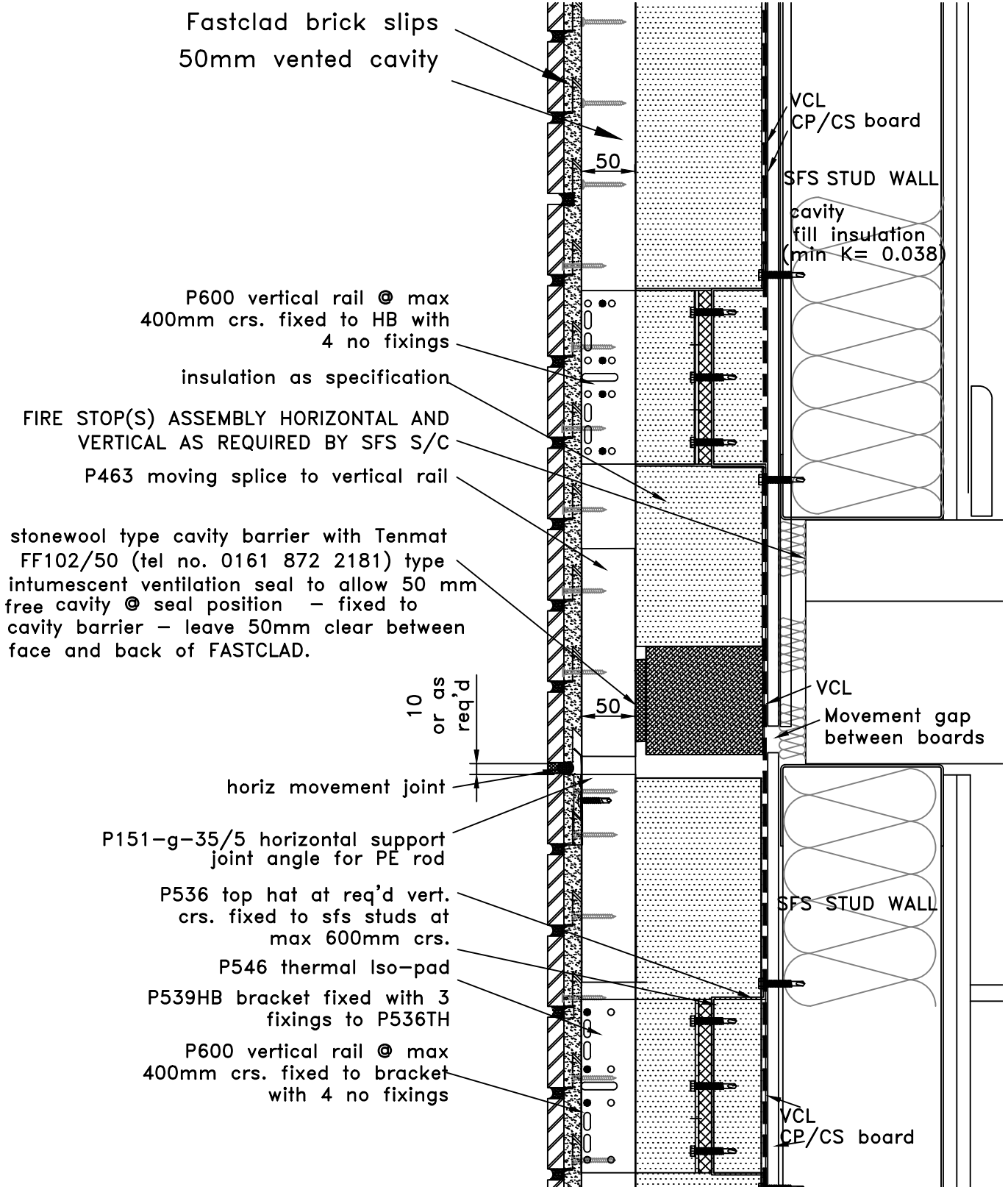
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**TYPICAL ARRANGEMENT  
VERTICAL SECTION  
MOVEMENT JOINT TO SFS**

[35] 02-02 [4]

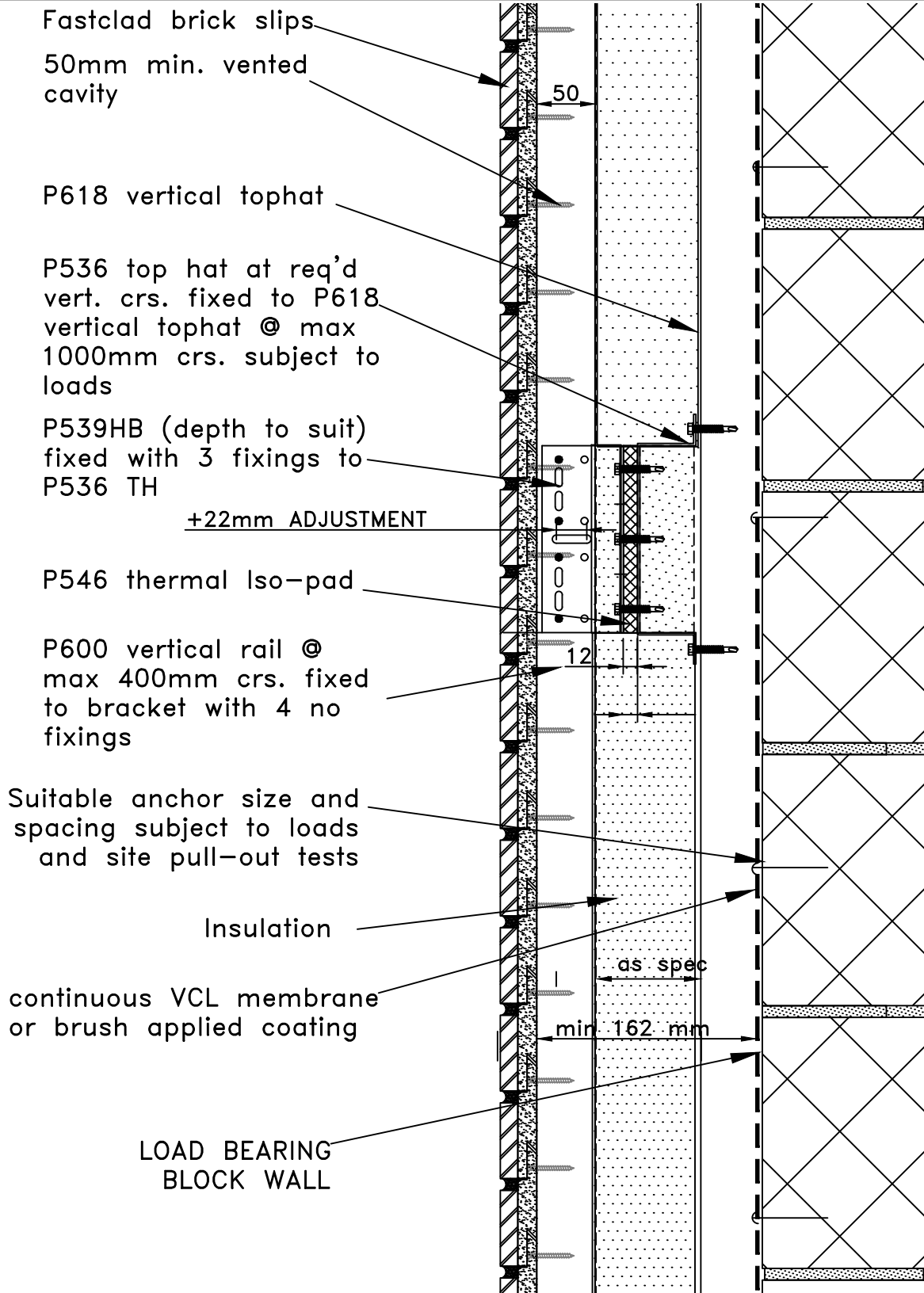
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**TYPICAL ARRANGEMENT  
 VERTICAL SECTION  
 TO BLOCKWORK**

[35] 02-03 [4]

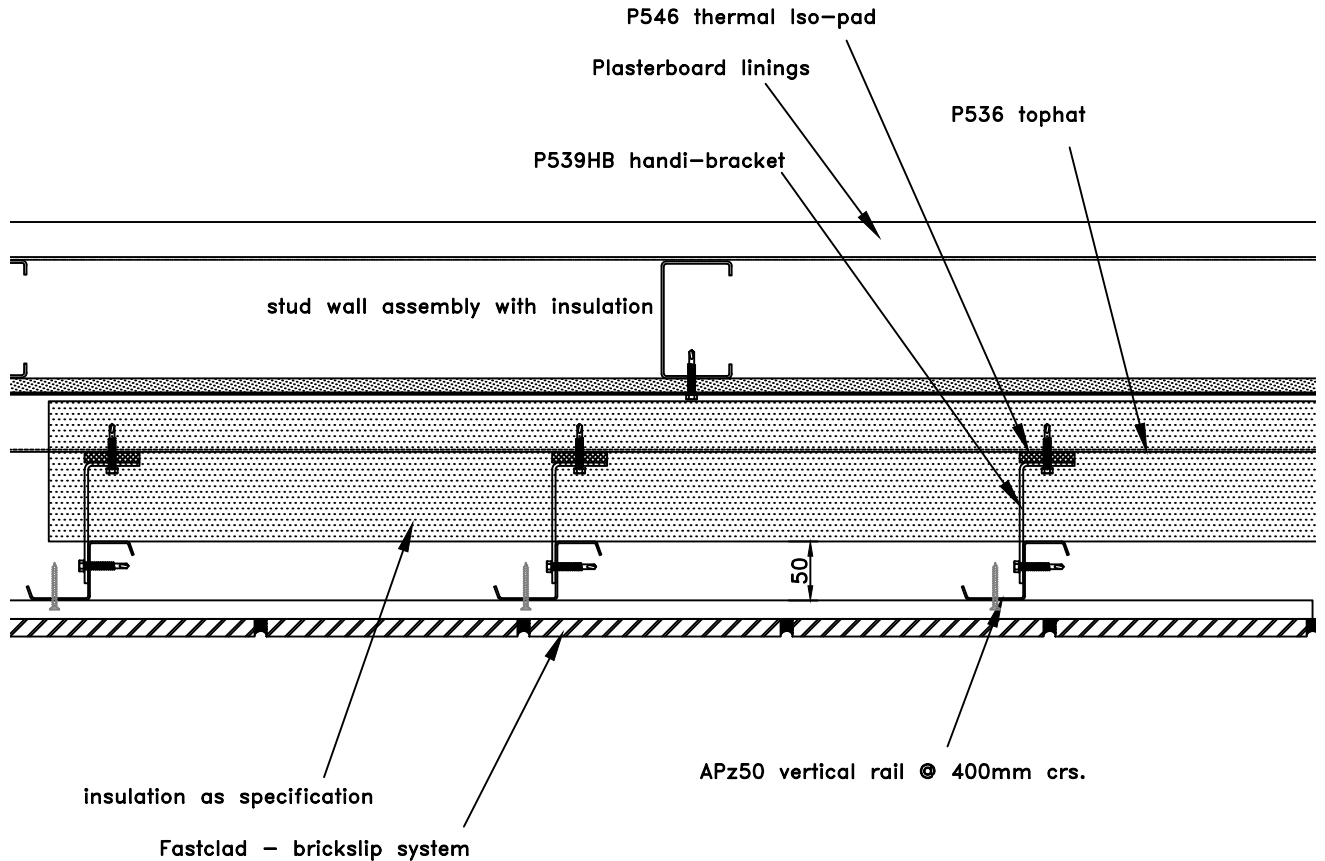
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## Fastclad



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TYPICAL ARRANGEMENT  
 TO STUD - PLAN SECTIONS  
 TO SFS

[35] 03-01 [4]

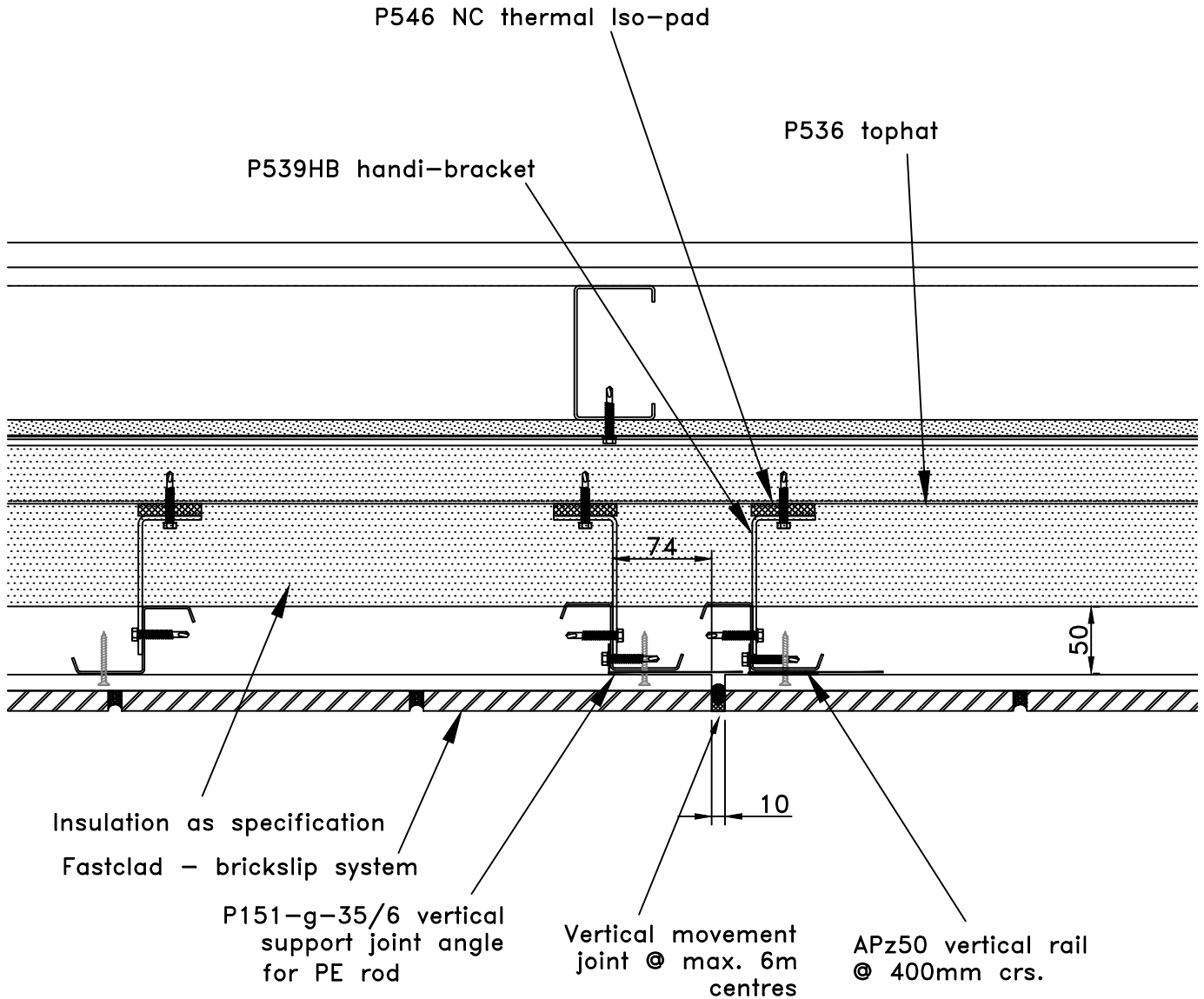
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TYPICAL ARRANGEMENT  
 TO STUD - PLAN SECTIONS  
 TO MOVEMENT JOINT

[35] 03-02 A [4]



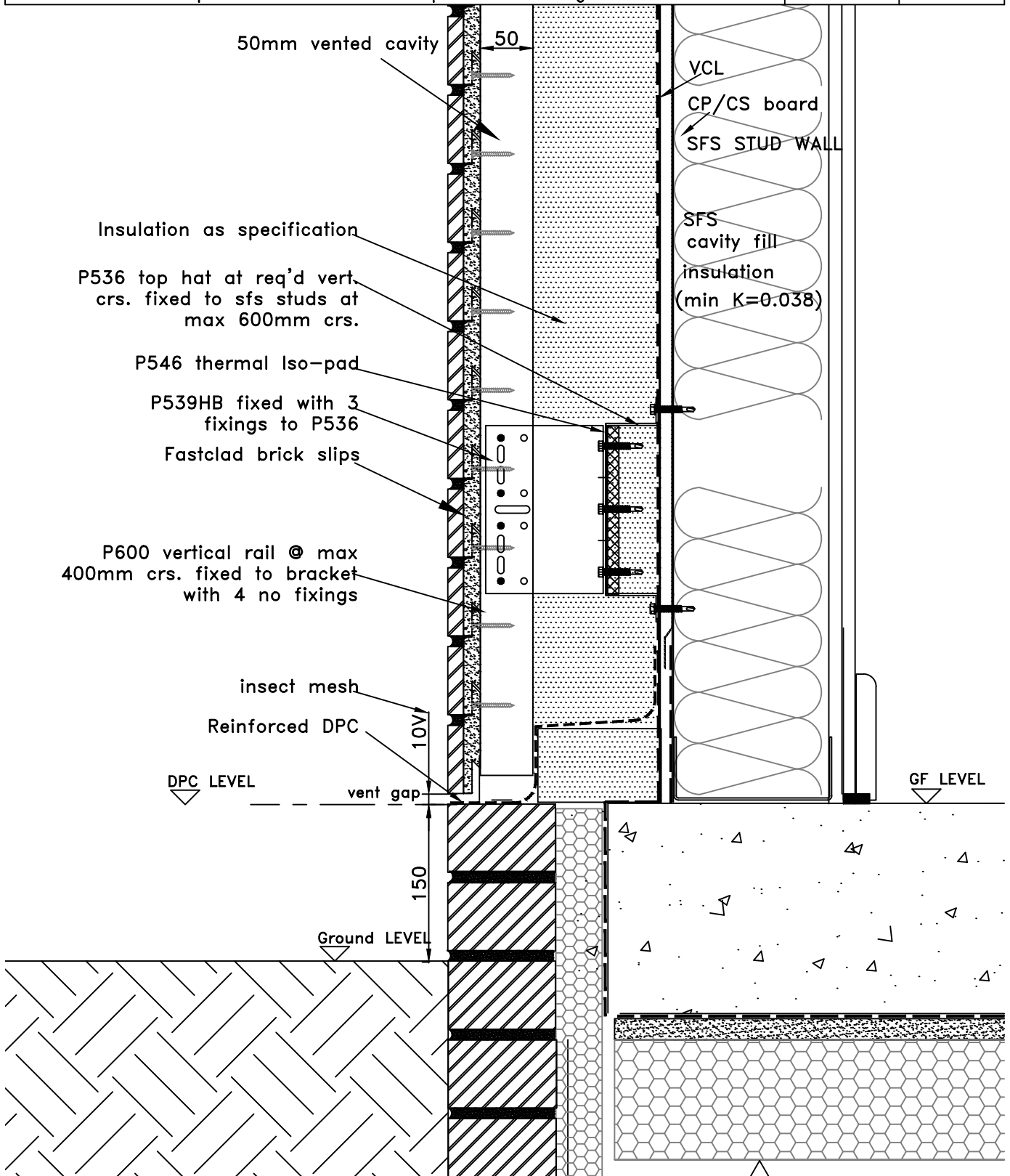
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**BASE DETAIL  
 TO STUD WALL  
 SOLID BRICK BELOW DPC**

[35] 04-01 [4]

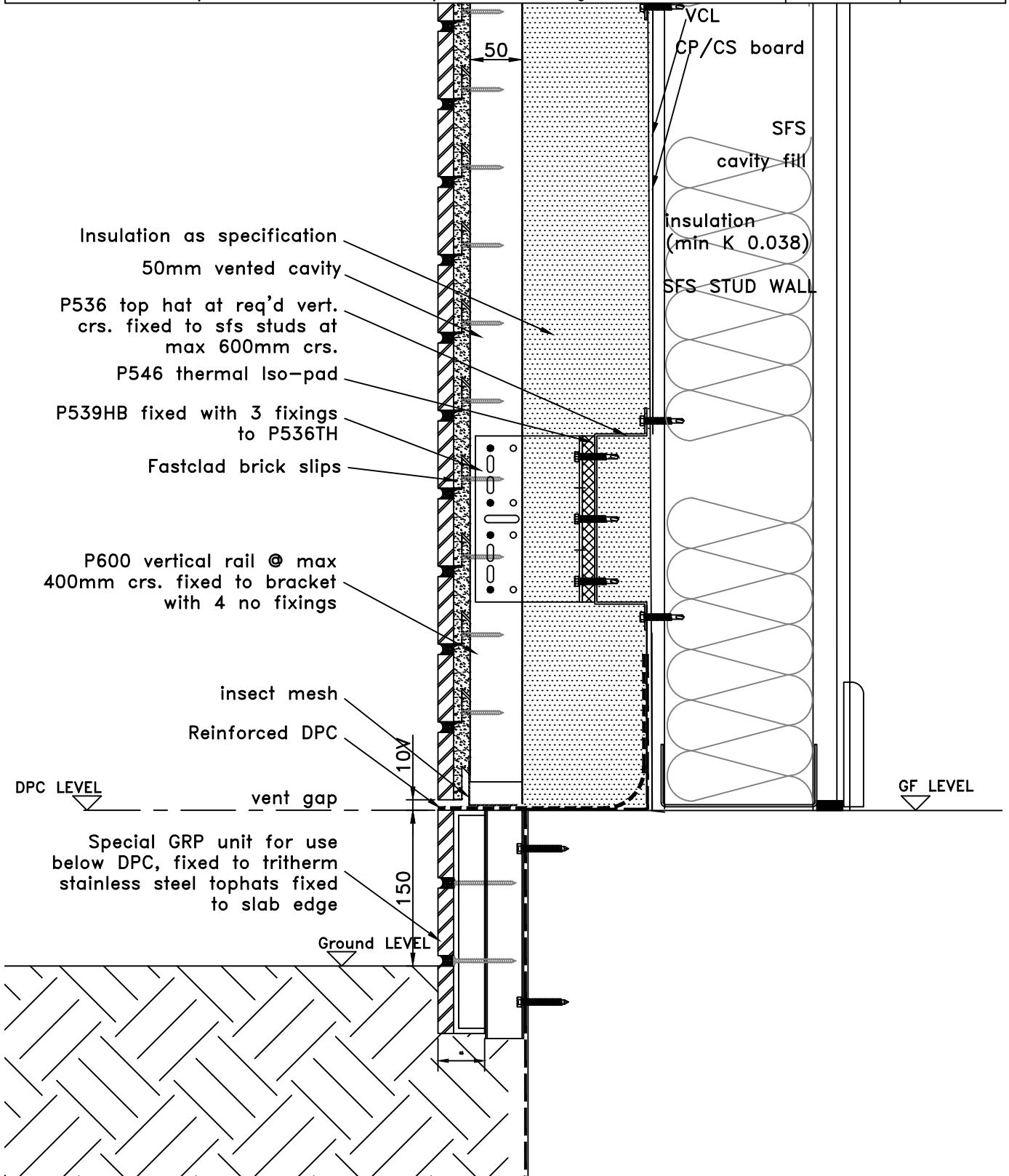
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**BASE DETAIL TO STUD WALL WITH BRICK SLIP BELOW DPC**

[35] 04-02 [4]

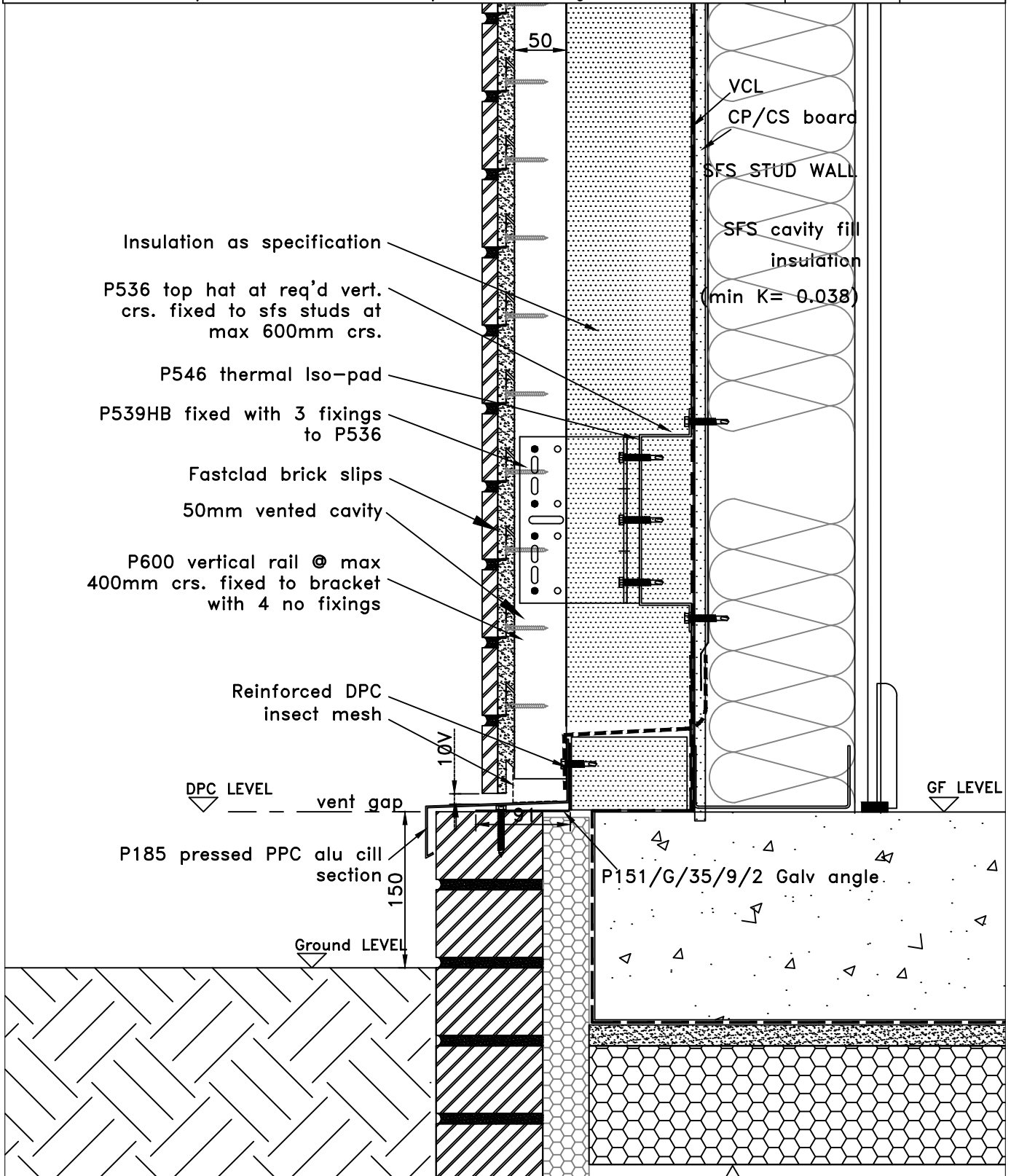
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**BASE DETAIL TO STUD WALL WITH SOLID BRICK BELOW DPC**

[35] 04-03 [4]

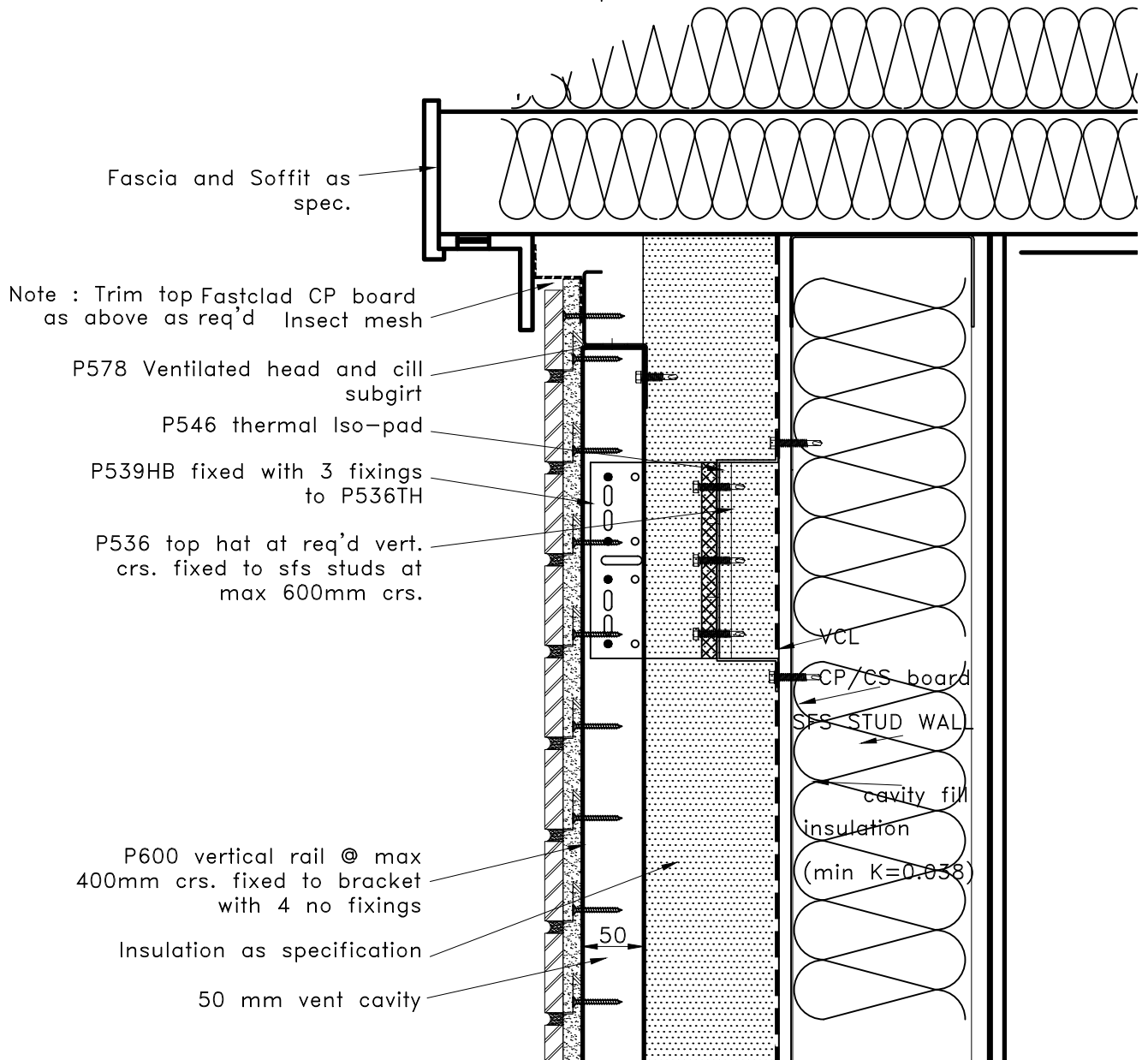
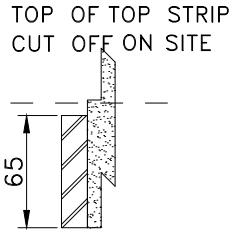
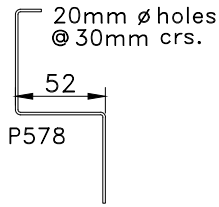
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HEAD DETAIL to FASCIA  
TO STUD WALL  
TO EAVES

[35] 05-01 [4]

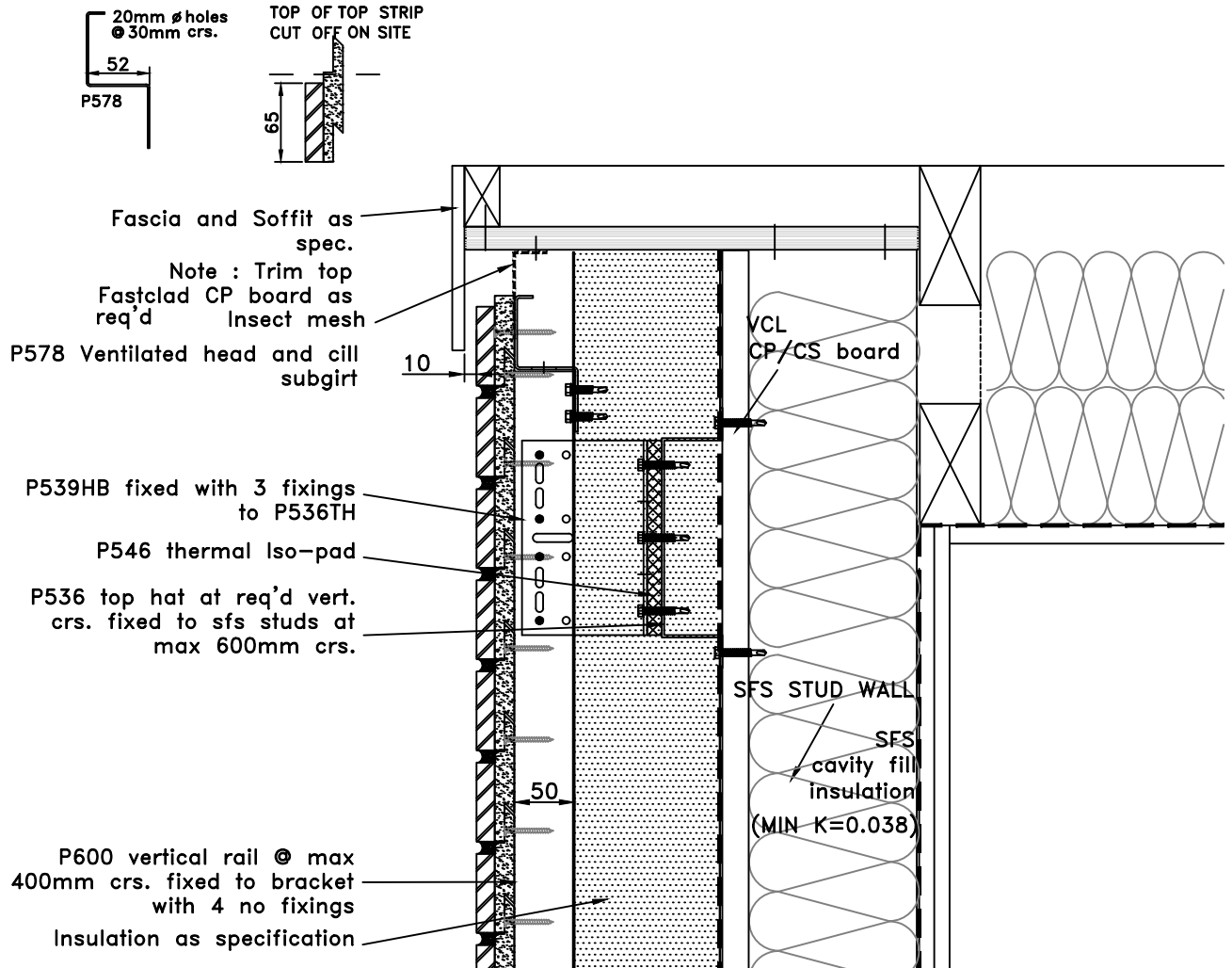
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Notes cont'd...

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HEAD DETAIL to VERGE  
TO STUD WALL  
TO VERGE

[35] 05-02 [4]

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## corner @ P536 tophat line

P600 vertical rail @ max 400mm crs. fixed to bracket with 4 no fixings

P539HB bracket fixed with 3 fixings to P536

P546 thermal Iso-pad

P536 top hat at req'd vert. crs. fixed to sfs studs at max 600mm crs.

VCL

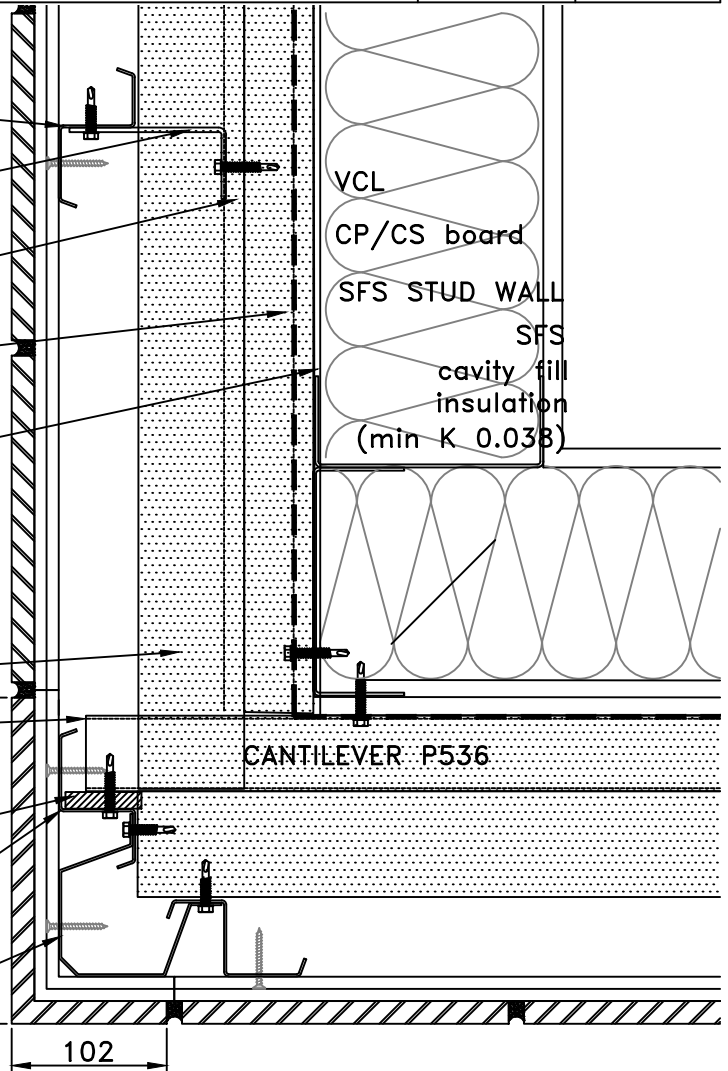
Insulation as specification

P536 top hat at req'd vert. crs. fixed to sfs studs at max 600mm crs.

P546 thermal Iso-pad

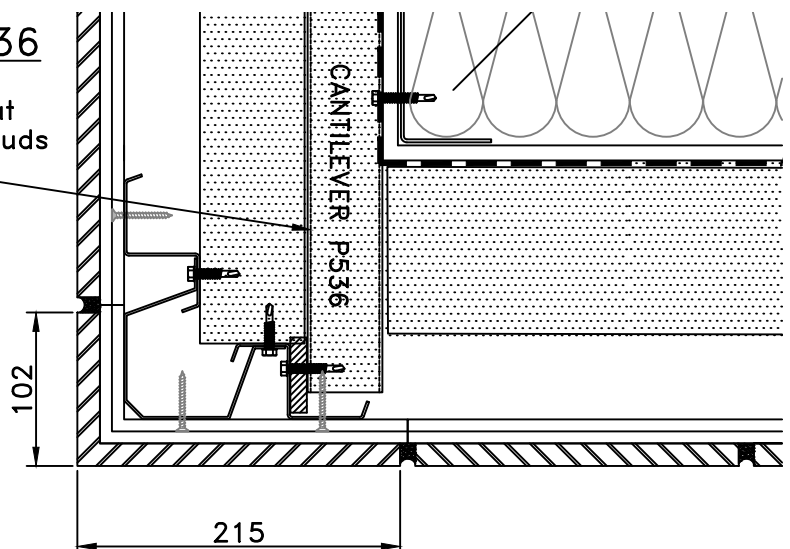
P600 vertical rail @ max 400mm crs. fixed to bracket with 4 no fixings

P579 Galv corner support



## corner between tophat P536

intermediate short length P536 top hat between main tophats, fixed to sfs studs



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Notes cont'd...

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**90° CORNER DETAIL**  
 TYPICAL TO STUD WALL

[35] 06-01 [4]

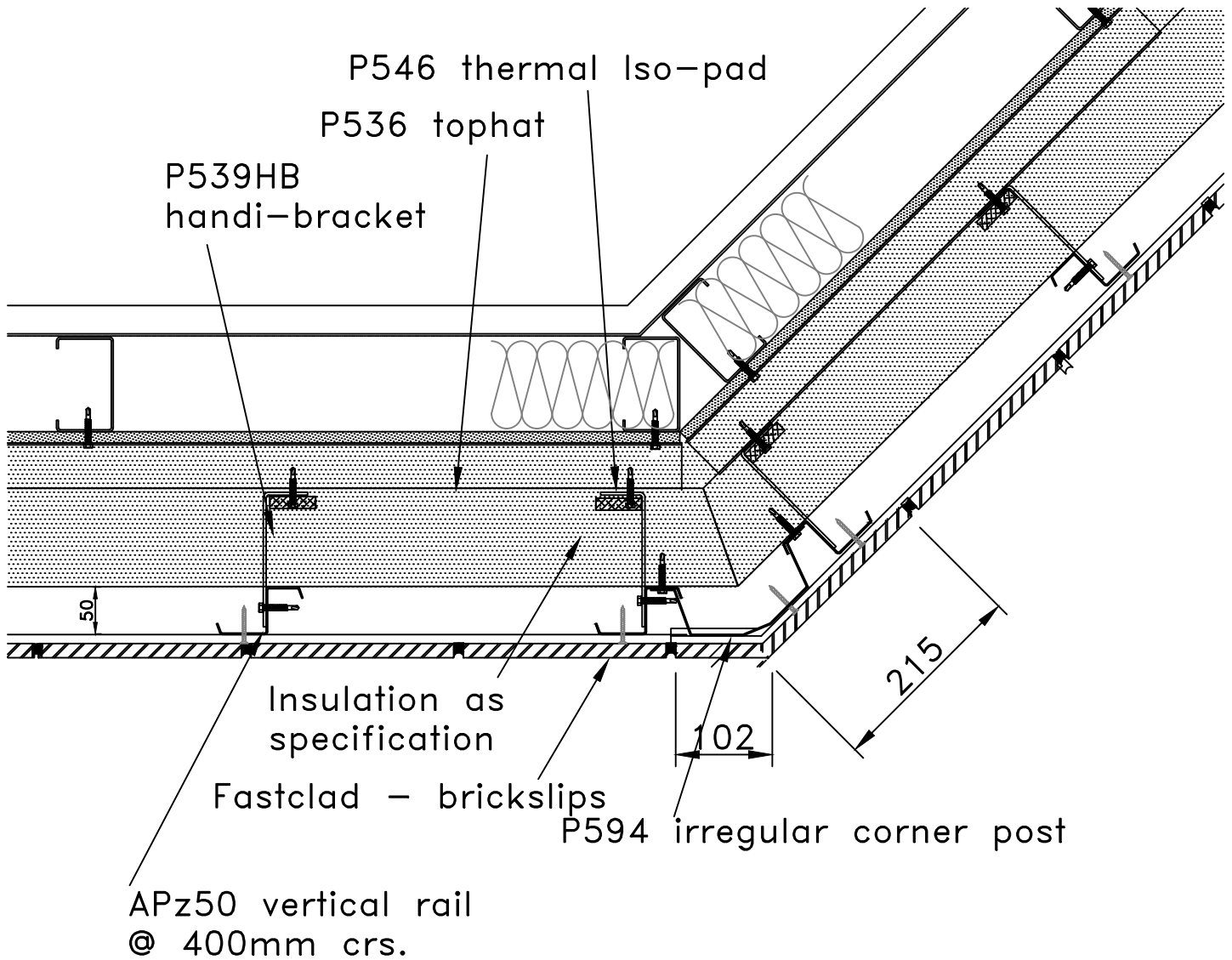
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Notes cont'd...

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OBTUSE CORNER DETAIL  
 TO FASTCLAD BRICKSLIP SYSTEM

[35] 06-02 [3]

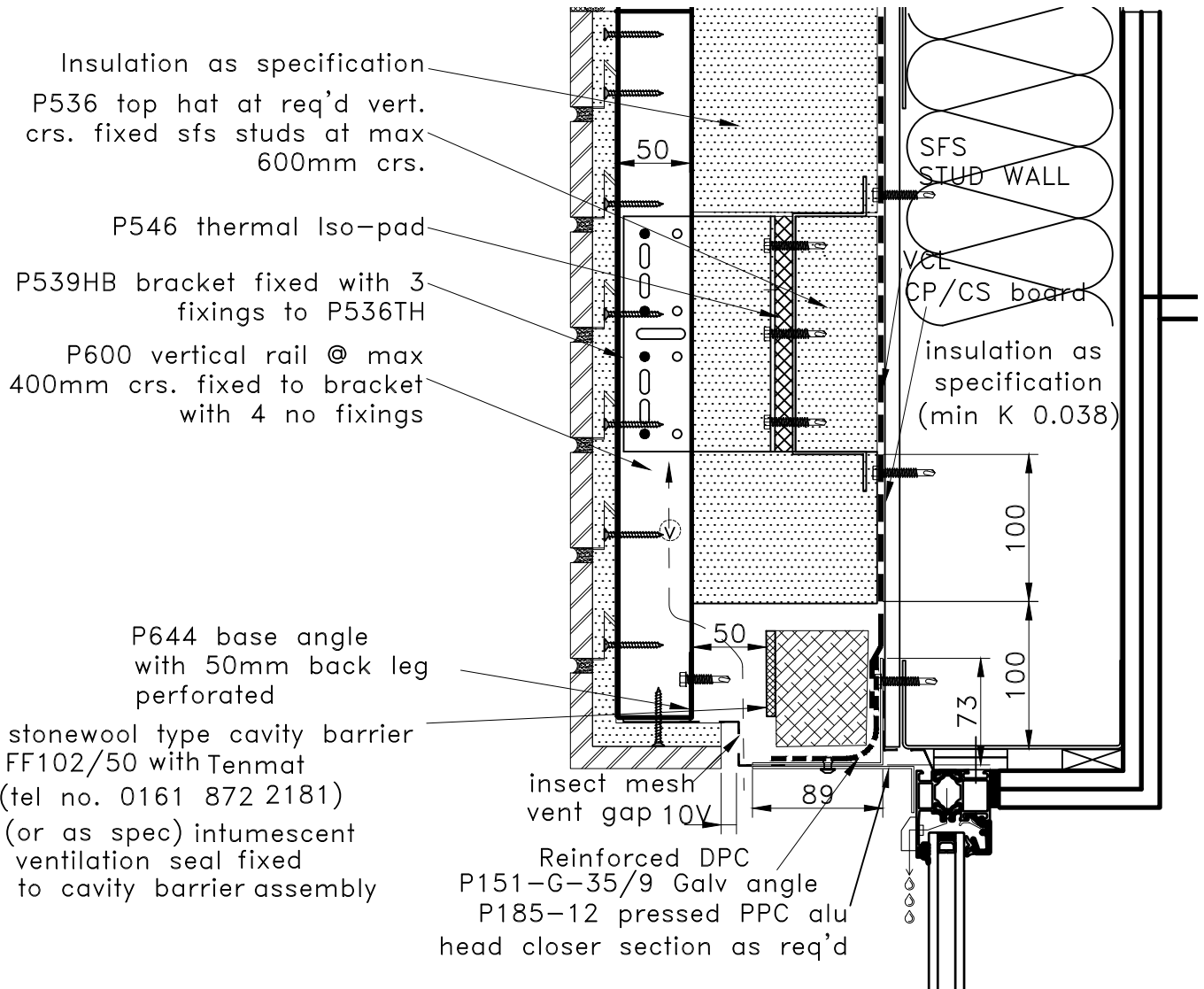
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Notes cont'd...

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**PISTOL BRICK HEAD DETAIL  
 TO WINDOW  
 TO STUD WALL**

[35] 08-01 [4]



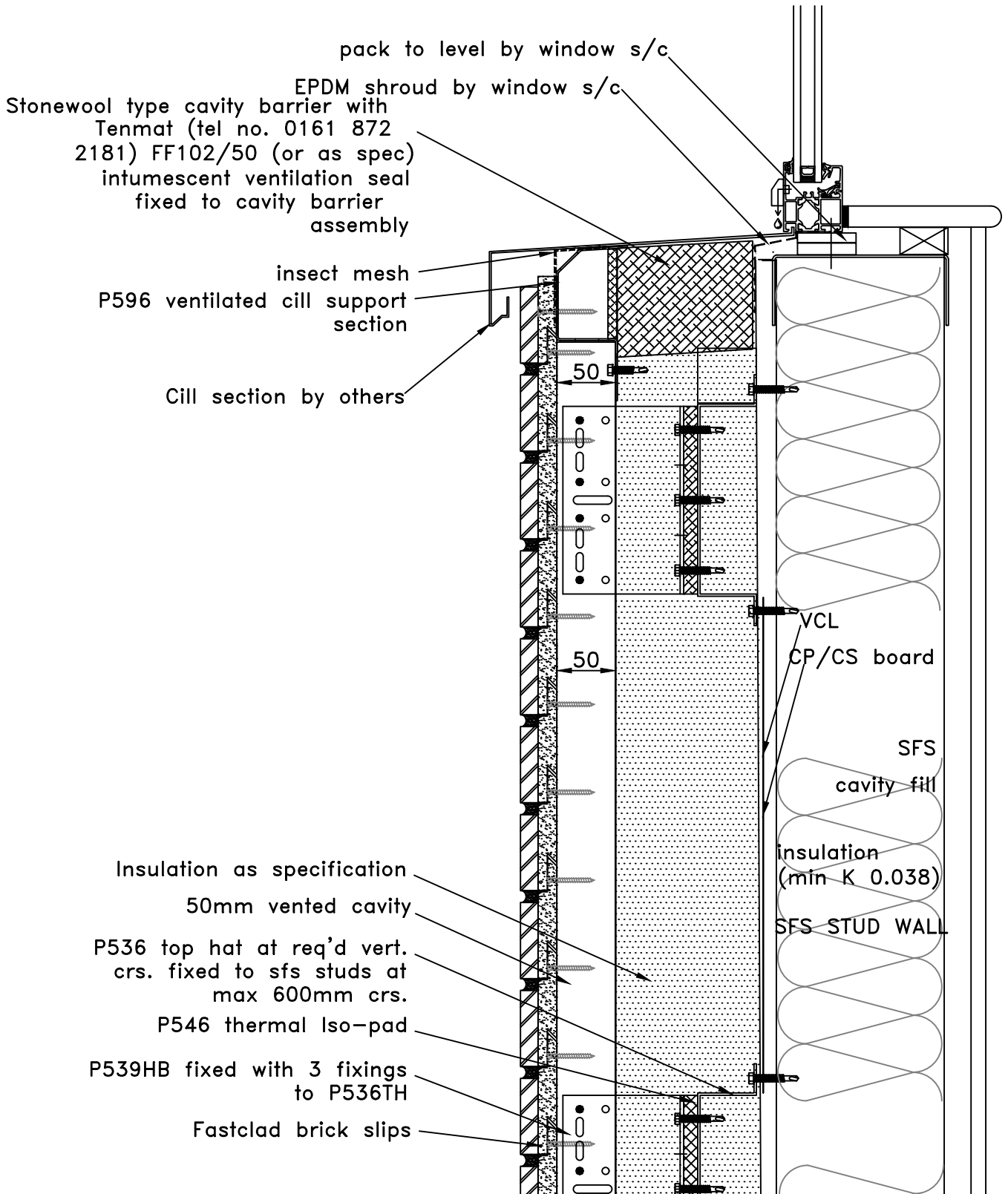
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**CILL DETAIL  
 TO WINDOW  
 TO STUD WALL**

[35] 08-02 [4]

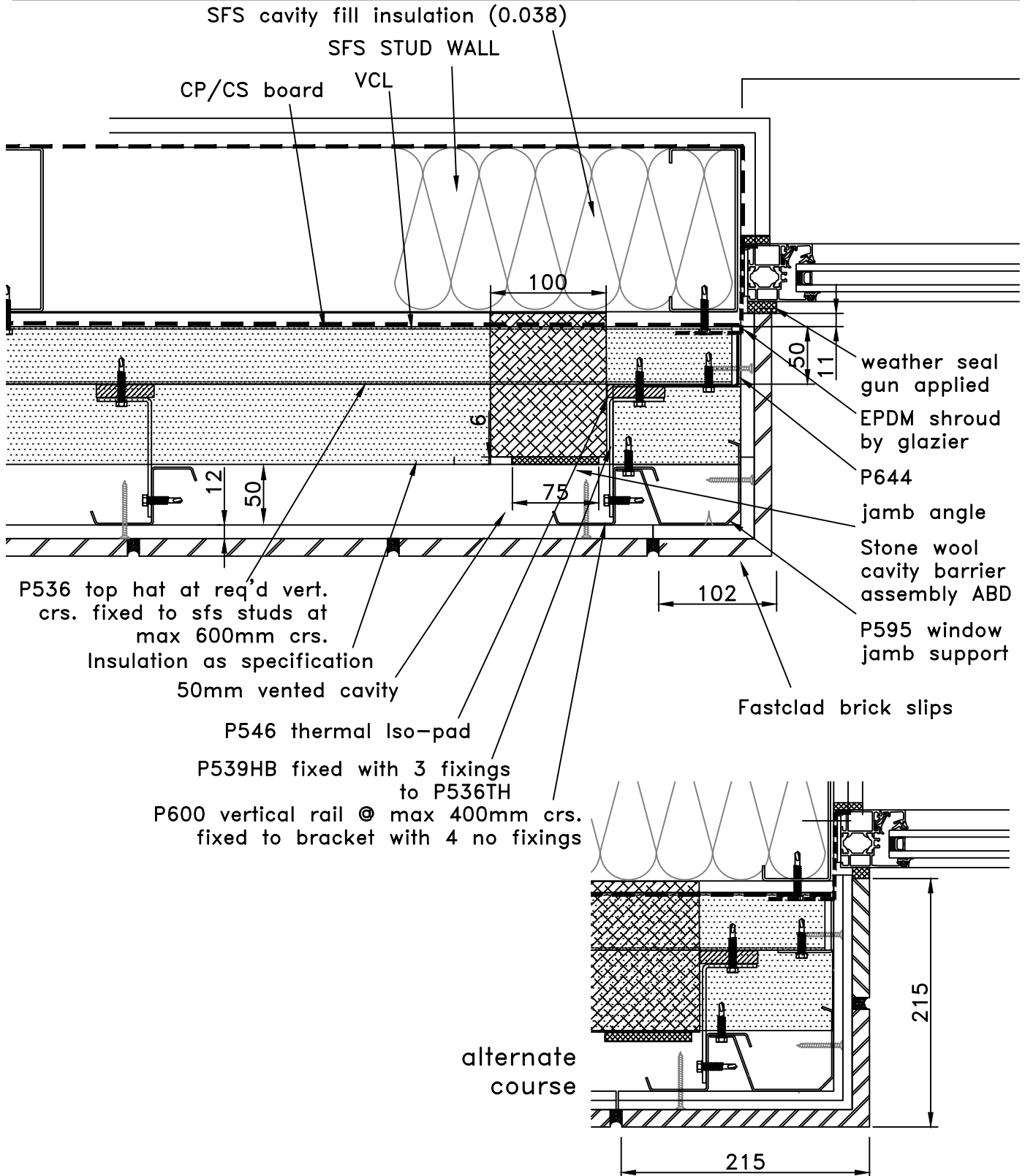
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**BRICK/ SLIP JAMB DETAIL  
 TO WINDOW  
 TO STUD WALL**

[35] 08-03 [4]

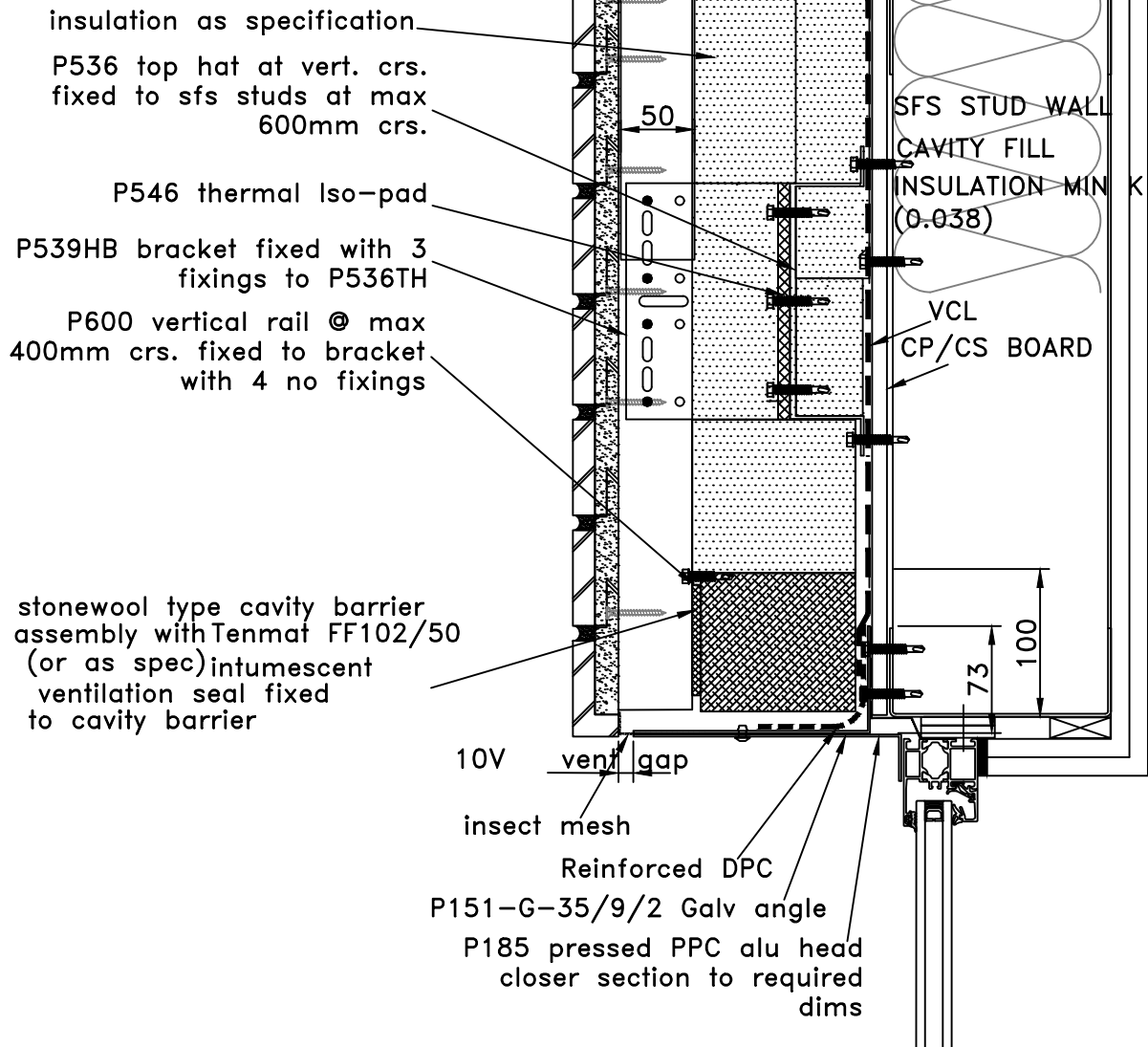
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Notes cont'd...

4) all steels structural grades and galvanised z275/gm/m2

5) all fixings to be stainless steel

e-mail [info@archprof.co.uk](mailto:info@archprof.co.uk)

HEAD FLUSH DETAIL  
 TO WINDOW  
 TO STUD WALL

[35] 08-04 [4]