



MASONS
Designed Smart, Built Tough.

**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Typical Panel Layout & Masons Bracket Placement
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

Scale

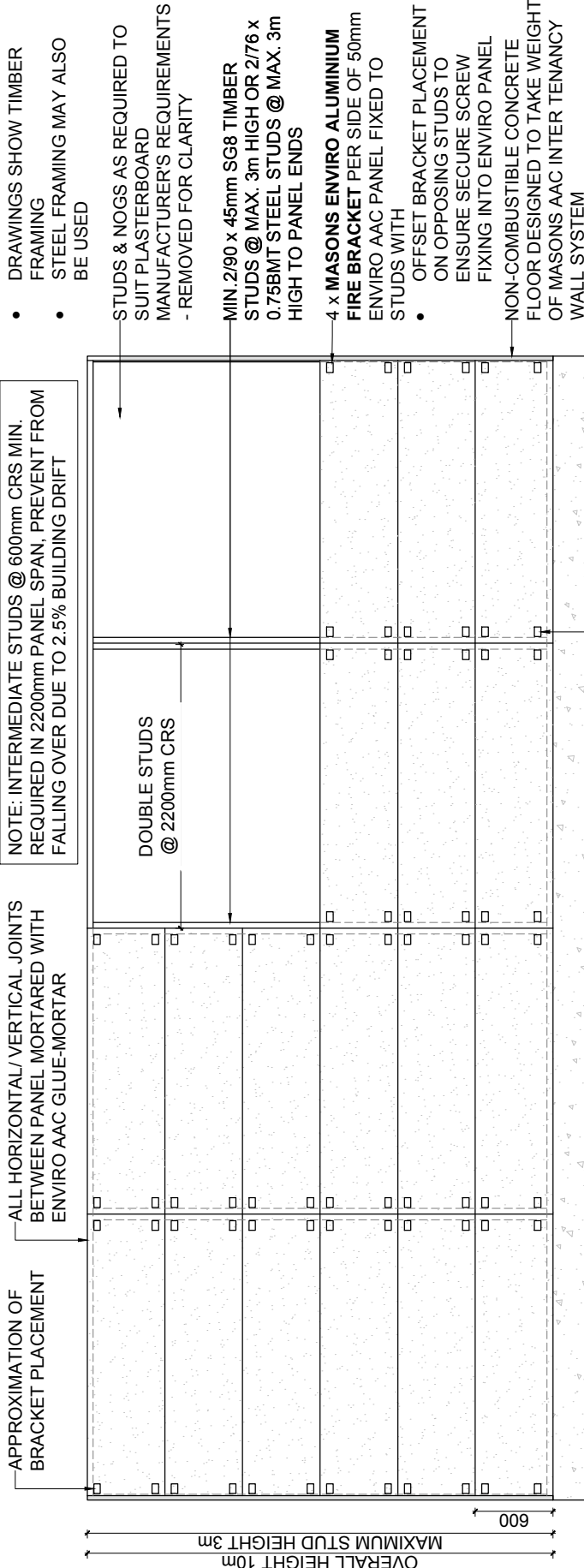
N.T.S

Date

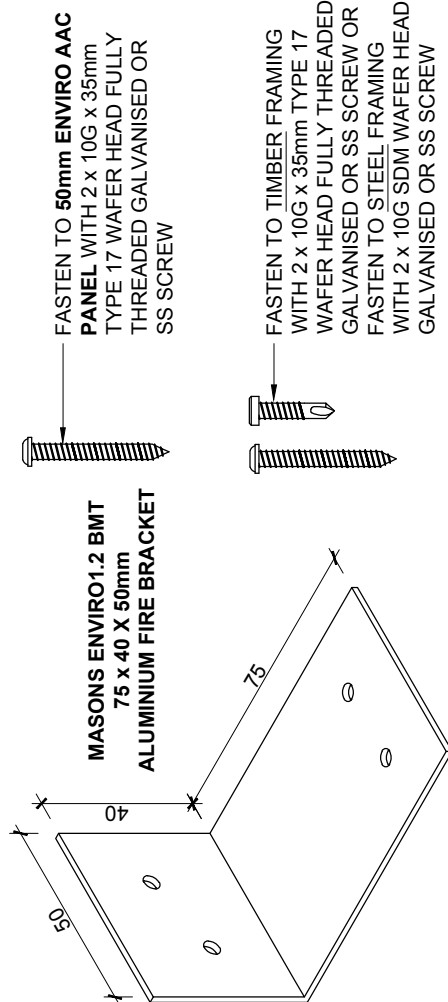
13th Oct 2025

Drawing No.

ITW.01 Rev3

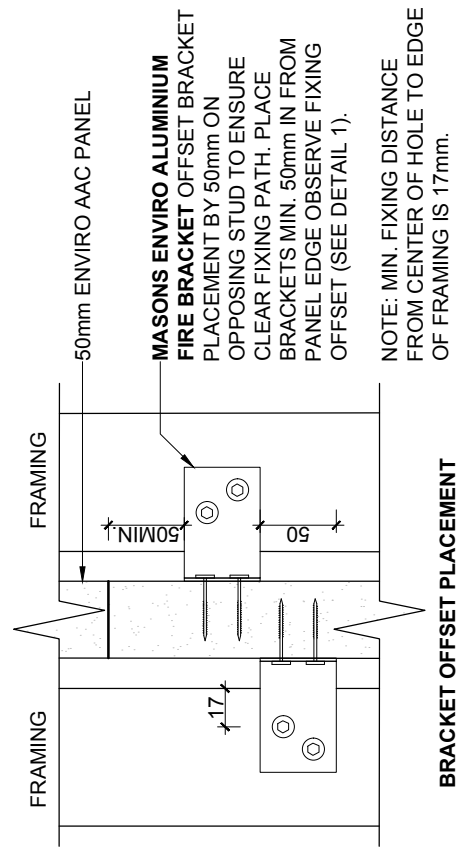


NOTE: 4 x MASONS ENVIRO ALUMINIUM
FIRE BRACKET PER SIDE OF PANEL
REQUIRED IF CONCRETE FLOOR IS AT
THE UPPER LEVEL



IMPORTANT

- SET SCREWS INTO ENVIRO AAC PANEL WITH A DRILL DRIVER WITH CLUTCH
- DO NOT USE A IMPACT DRIVER
- SET DRILL CLUTCH SO SCREWS DO NOT TEAR OUT ENVIRO AAC PANEL WHEN SEATED





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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Typical Wall Base to Concrete Floor
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

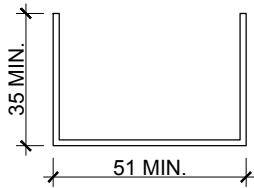
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1:10

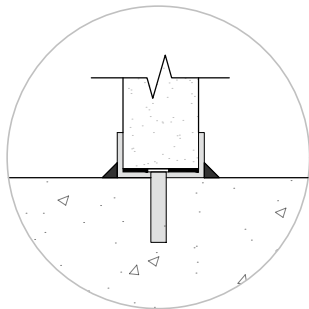
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13th Oct 2025

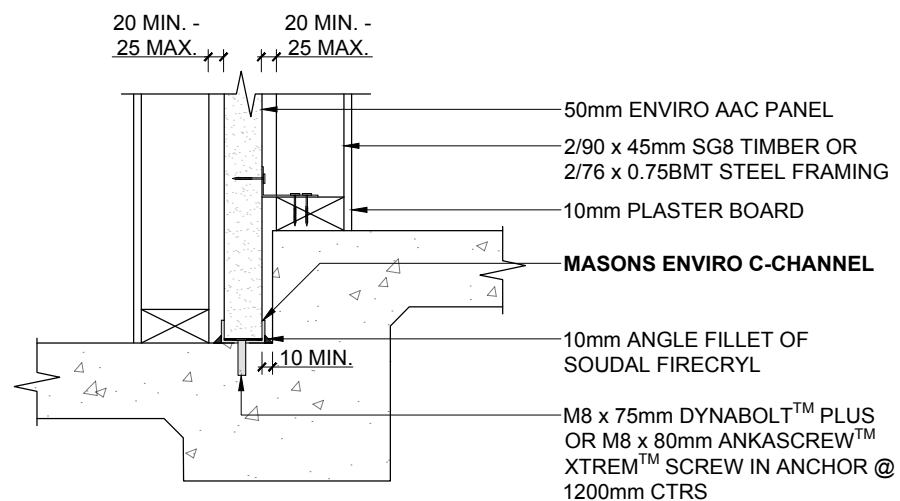
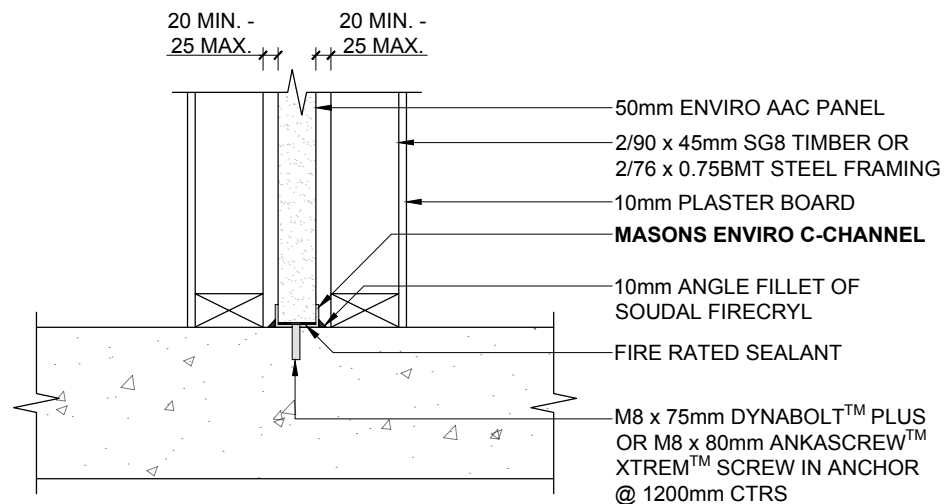
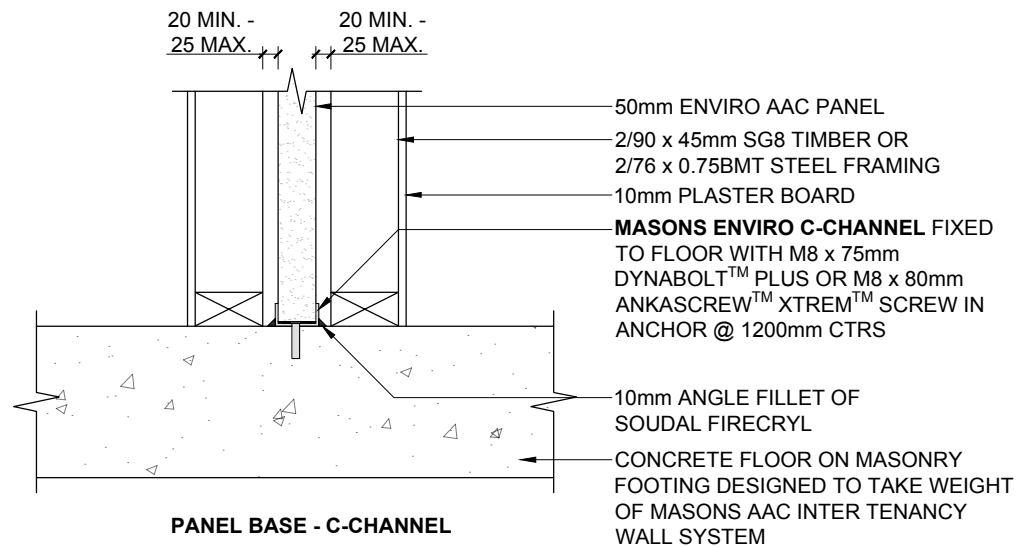
Drawing No.

ITW.02 Rev2

MASONS ENVIRO C-CHANNEL
0.55 BMT STEEL GALVANISED



10mm ANGLE FILLET
OF SOUDAL FIRECRYL





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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Overall Dimension

FRR 120/120/120 Timber Frame *only*

FRR ---/90/90 Light Steel Framing

Scale

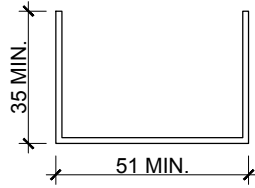
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Date

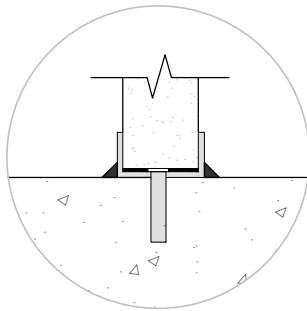
13th Oct 2025

Drawing No.

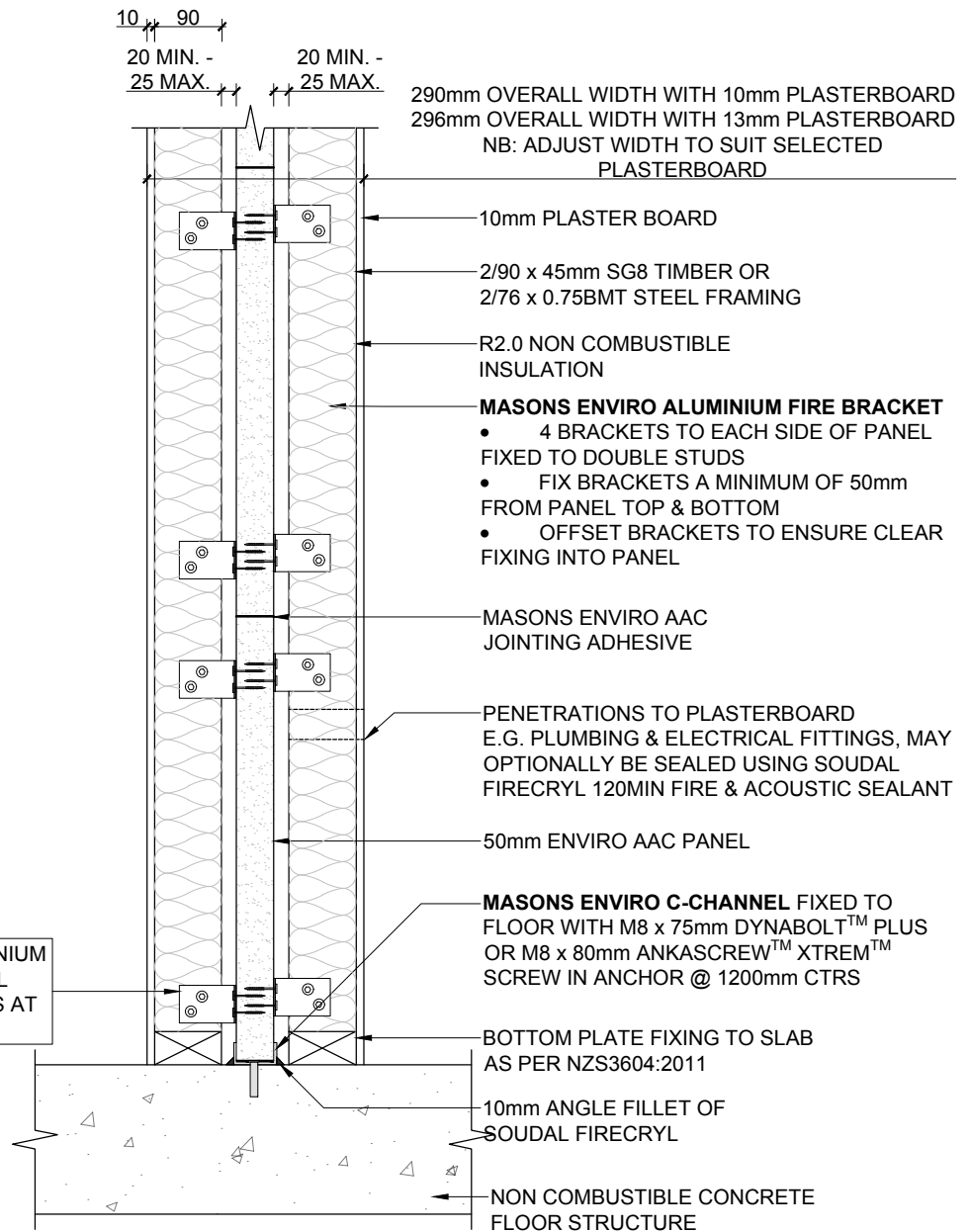
ITW.03 Rev3



**MASONS ENVIRO C-CHANNEL
0.55 BMT STEEL GALVANISED**



**10mm ANGLE FILLET
OF SOUDAL FIRECRYL**



NOTE: 4 x MASONS ENVIRO ALUMINIUM
FIRE BRACKET PER SIDE OF PANEL
REQUIRED IF CONCRETE FLOOR IS AT
THE UPPER LEVEL



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Panel Control Joint

FRR 120/120/120 Timber Frame *only*

FRR ---/90/90 Light Steel Framing

Scale

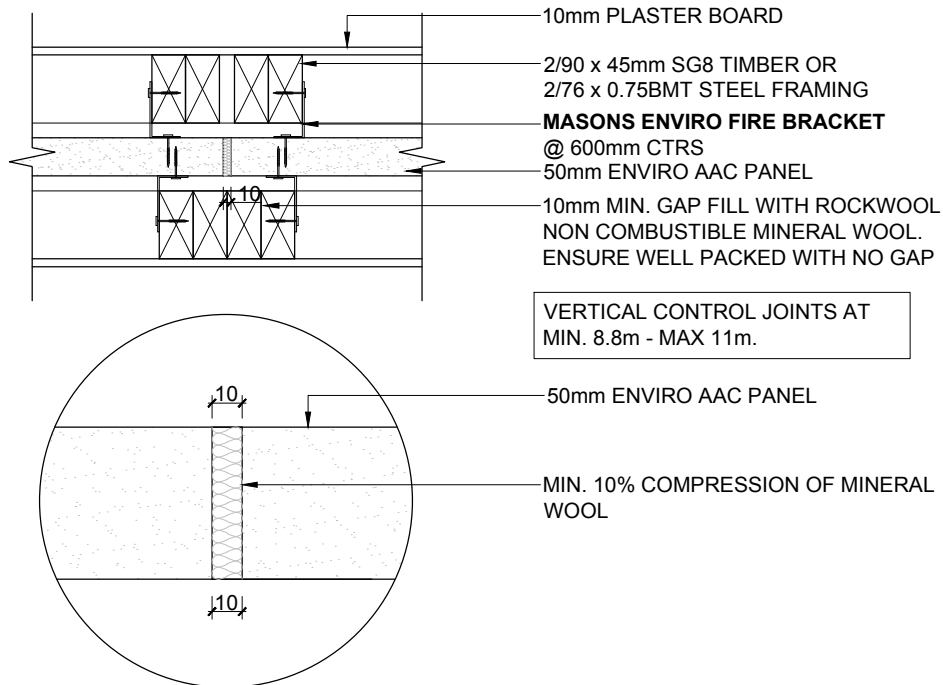
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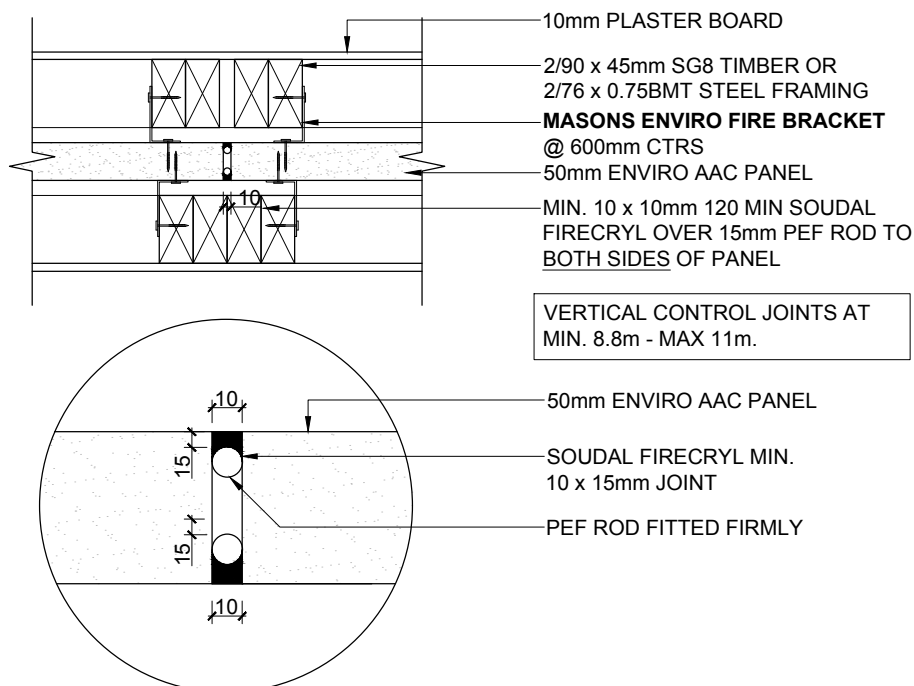
27th May 2025

Drawing No.

ITW.04 Rev2



**CONTROL JOINT OPTION 1 -
NON COMBUSTIBLE MINERAL WOOL**



**CONTROL JOINT OPTION 2 -
FIRE RESISTANT SEALANT JOINT**



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

50mm Enviro AAC Panel Installation
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

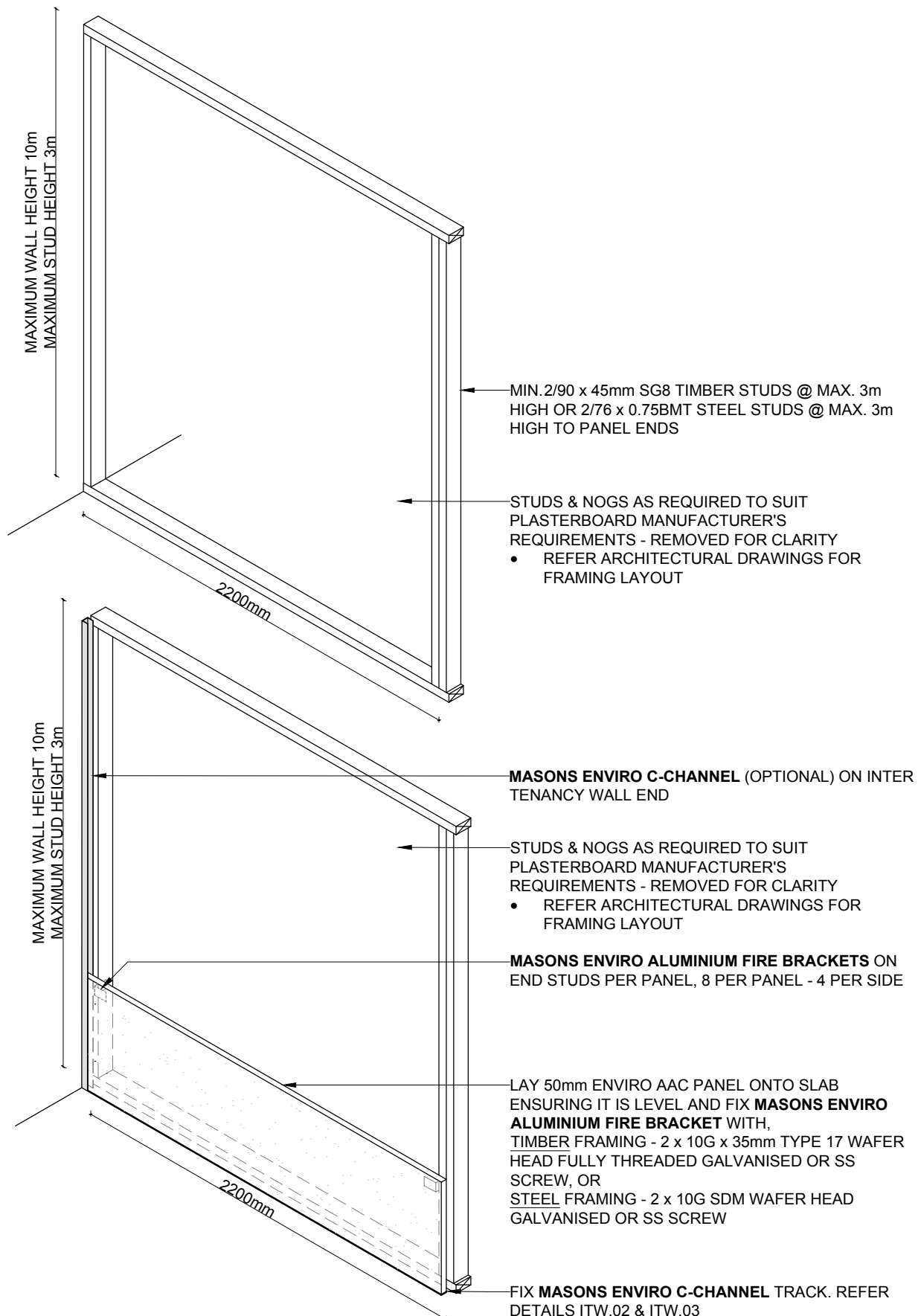
Scale

N.T.S

Date

4th Nov 2024

Drawing No.

ITW.05 Rev1



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

50mm Enviro AAC Panel Installation
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

Scale

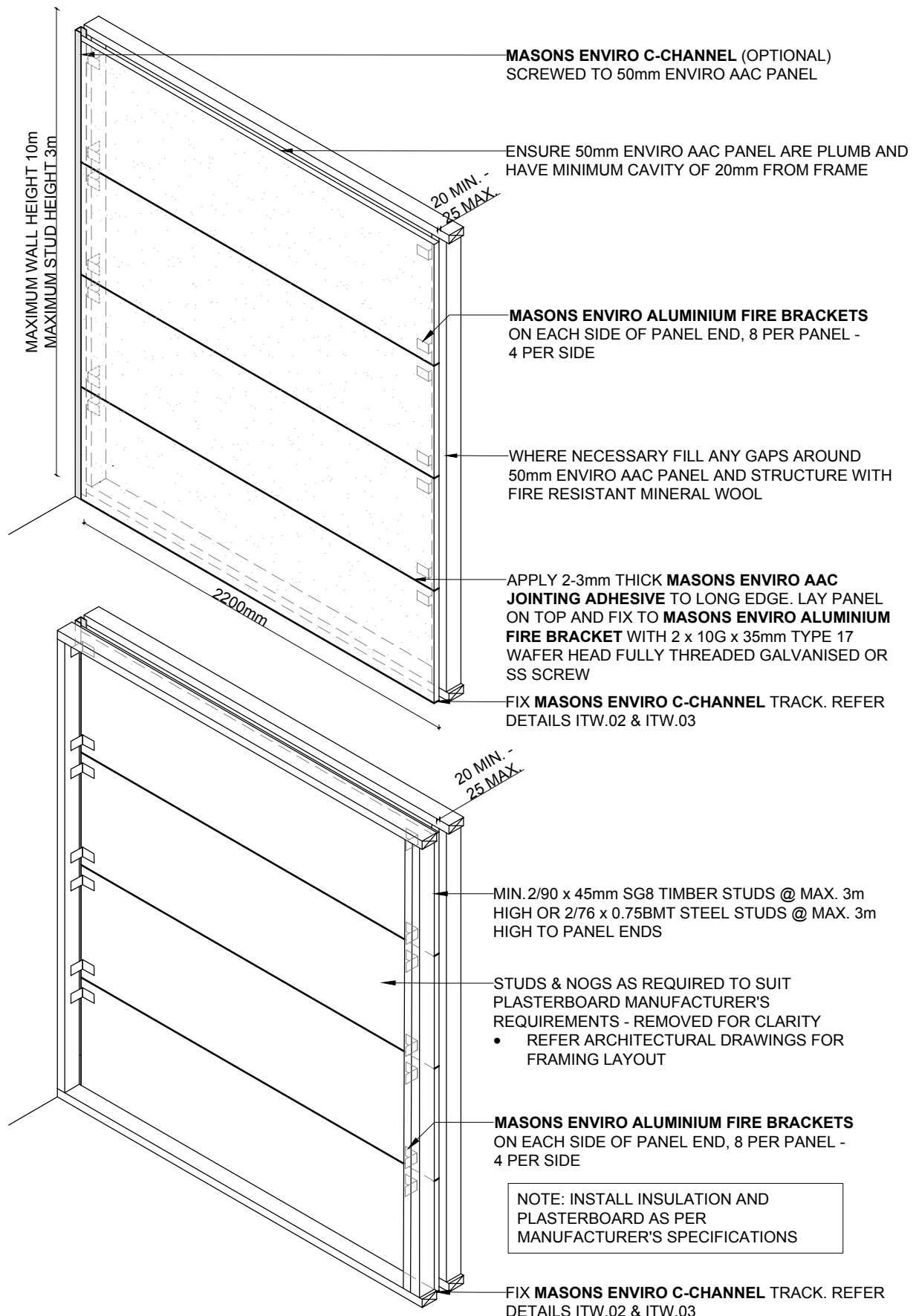
N.T.S

Date

4th Nov 2024

Drawing No.

ITW.06 Rev1





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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Enviro Aluminium Fire Bracket Layout
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

Scale

1:10

Date

4th Nov 2024

Drawing No.

ITW.07 Rev1

C-CHANNEL END DETAIL

**MASONS ENVIRO ALUMINIUM
FIRE BRACKET**

OPTIONAL C-CHANNEL TO
PANEL END

50mm ENVIRO AAC PANEL

STUDS

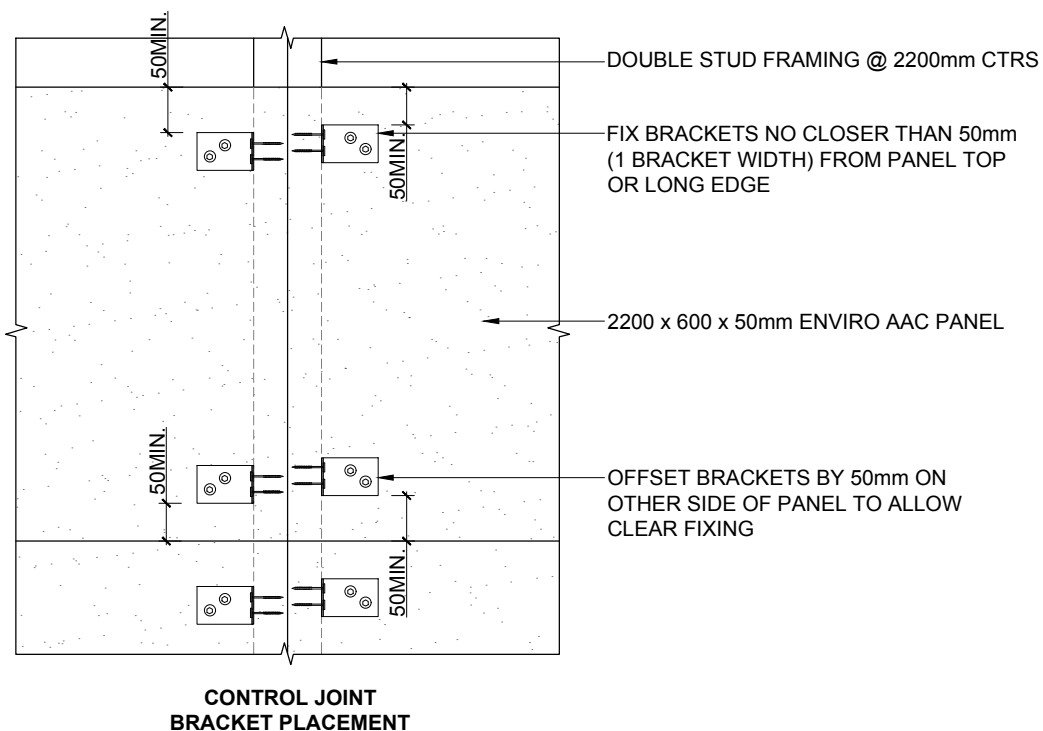
200

TYPICAL PANEL JOINT -
JOINTING ADHESIVE

MASONS ENVIRO AAC
JOINTING ADHESIVE BED

NOTE:

- USE APPROPRIATE FIXING FOR CORROSION ZONE
- MAXIMUM SPACING FOR ANGLE BRACKETS REFER TO FIXING TABLE



**MASONS**
Designed Smart, Built Tough.**Masons Enviro AAC 50mm
Inter Tenancy Wall System**50mm Enviro AAC Panel Setout - Multi Storey
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

Scale

1:50

Date

4th Nov 2024

Drawing No.

ITW.08 Rev2

NB: STAIRWELL DESIGN MUST BE CHECKED
BY A STRUCTURAL ENGINEER INCLUDING
BOUNDARY JOISTS, TRIMMERS, FLOOR
JOISTS AND FIXINGS

ROOF STRUCTURE

TIMBER FRAME AS PER NZ3604

STUDS & NOGS AS REQUIRED
TO SUIT PLASTERBOARD
MANUFACTURER'S
REQUIREMENTS

HORIZONTAL CONTROL JOINT
AT MID FLOOR. REFER
SPECIFIC DETAILS FOR
CONTROL JOINTS AT EVERY
10TH PANEL MAXIMUM

MORTARED JOINT BETWEEN
ENVIRO AAC PANELS

HORIZONTAL CONTROL JOINT
AT MID FLOOR. REFER
SPECIFIC DETAILS FOR
CONTROL JOINTS AT EVERY
10TH PANEL MAXIMUM

2200 x 600 x 50mm ENVIRO
AAC PANEL

MASONS ENVIRO C-CHANNEL
FIXED TO CONCRETE FLOOR
STRUCTURE AT SPECIFIED
CENTRES

ROOF

SECOND FLOOR

FLOOR STRUCTURE

FIRST FLOOR

FLOOR STRUCTURE

GROUND FLOOR

3000 MAX.

3000 MAX.

3000 MAX.

10M MAXIMUM HEIGHT



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Masons Enviro AAC 50mm Inter Tenancy Wall System

Midfloor Junction

FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

Scale

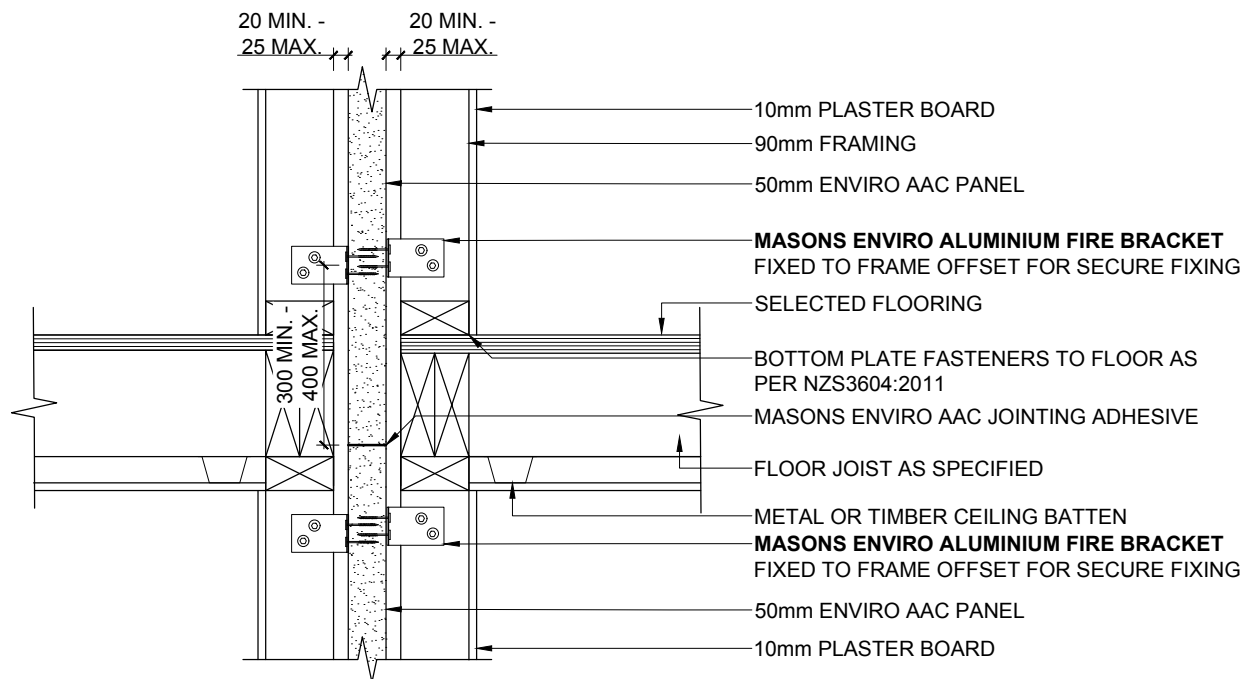
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Date _____

4th Nov 2024

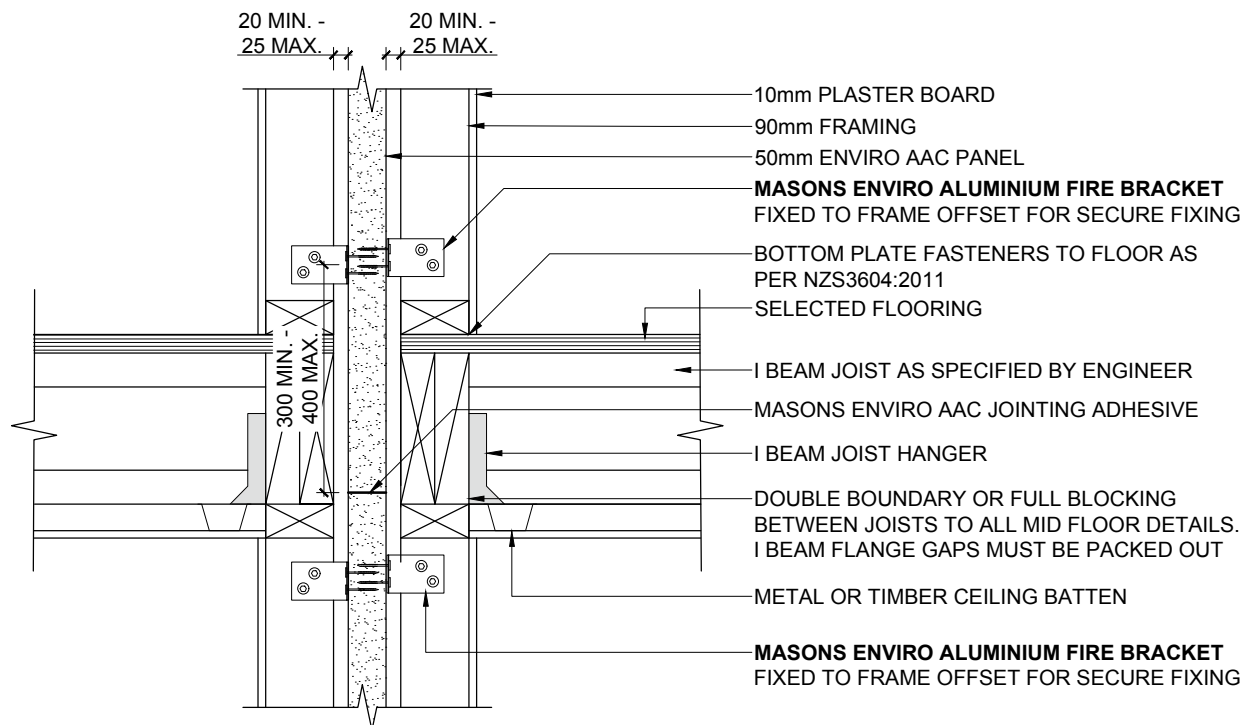
Drawing No.

ITW.09 Rev1



**SOLID TIMBER MID FLOOR -
NO MOVEMENT JOINT**

NB: STAIRWELL DESIGN MUST BE CHECKED BY A STRUCTURAL ENGINEER INCLUDING BOUNDARY JOISTS, TRIMMERS, FLOOR JOISTS AND FIXINGS



**I BEAM MID FLOOR -
NO MOVEMENT JOINT**



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Midfloor Control Joint - Option 1

FRR 120/120/120 Timber Frame *only*

FRR ---/90/90 Light Steel Framing

Scale

1:10

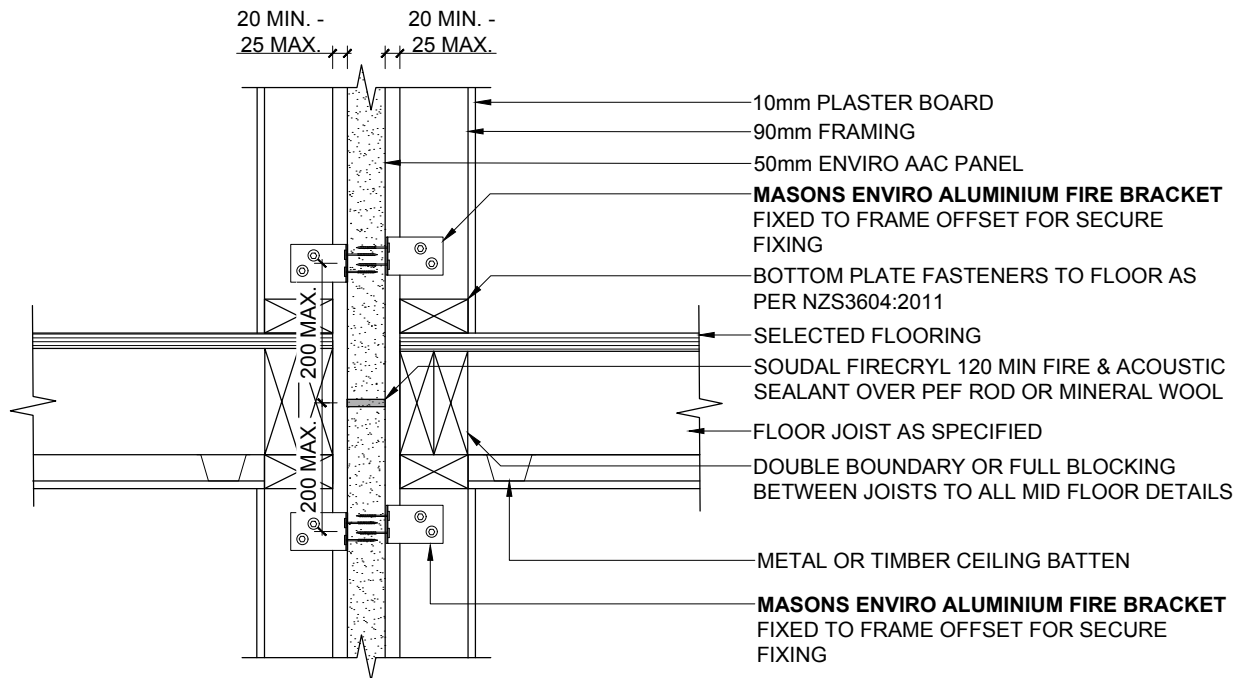
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4th Nov 2024

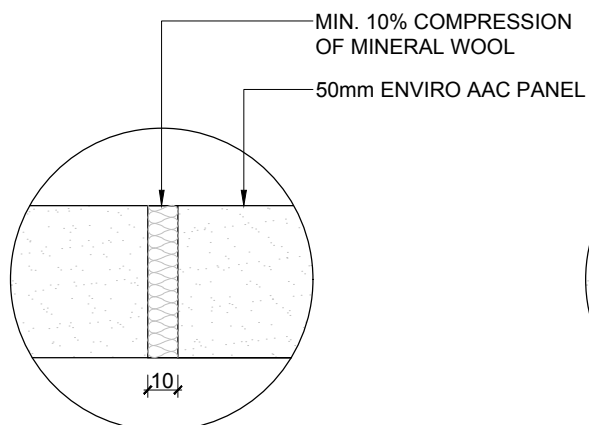
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ITW.10 Rev2

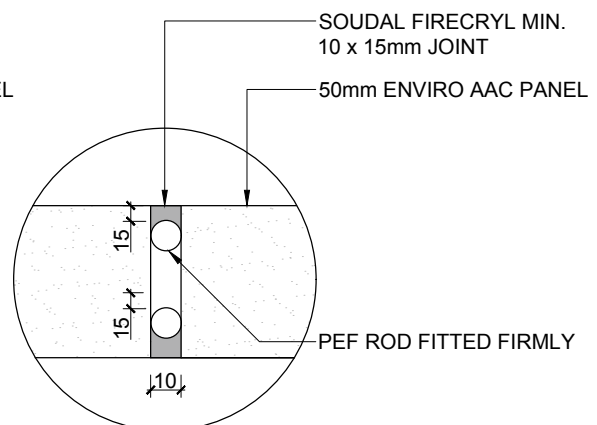
**OPTION 1 - PREFERRED DETAIL HORIZONTAL CONTROL JOINT
FORMED WITHIN MID FLOOR FRAMING**



**SOLID TIMBER MID FLOOR -
HORIZONTAL CONTROL JOINT**



**CONTROL JOINT OPTION 1 -
NON COMBUSTIBLE MINERAL WOOL**



**CONTROL JOINT OPTION 2 -
FIRE RESISTANT SEALANT JOINT**



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Midfloor Control Joint - Option 2

FRR 120/120/120 Timber Frame *only*

FRR ---/90/90 Light Steel Framing

Scale

1:10

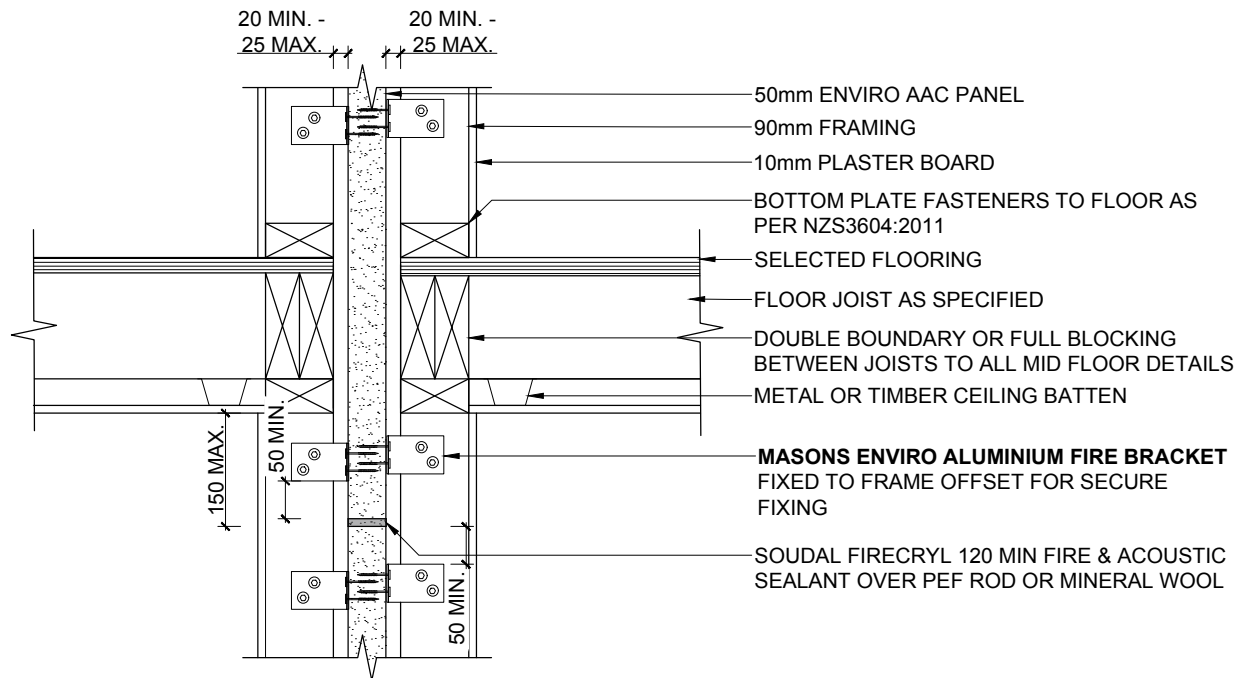
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4th Nov 2024

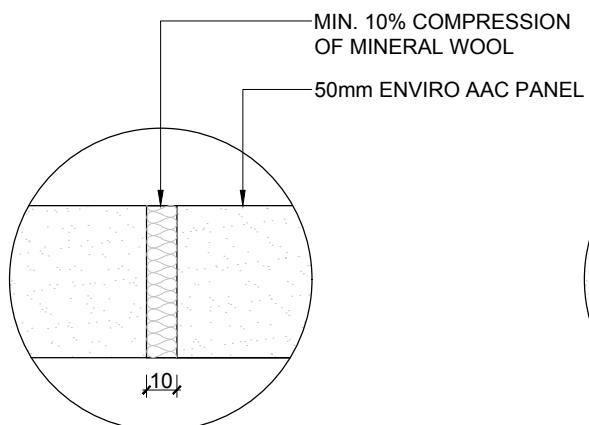
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ITW.10A Rev1

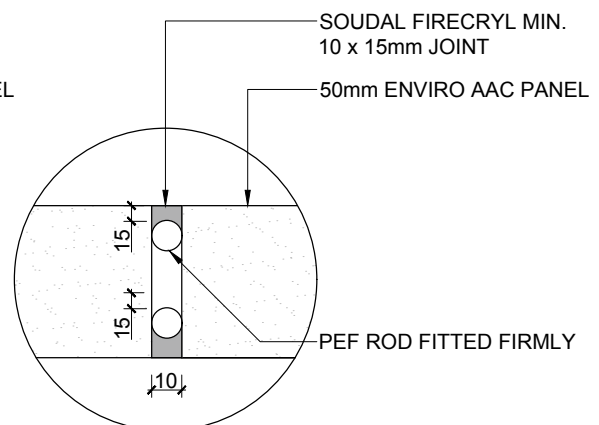
**OPTION 2 - HORIZONTAL CONTROL JOINT FORMED 150mm
ABOVE OR BELOW MID FLOOR FRAMING**



**SOLID TIMBER MID FLOOR -
HORIZONTAL CONTROL JOINT**



**CONTROL JOINT OPTION 1 -
NON COMBUSTIBLE MINERAL WOOL**



**CONTROL JOINT OPTION 2 -
FIRE RESISTANT SEALANT JOINT**



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Pitched Roof & Parapet Junction

FRR 120/120/120 Timber Frame *only*

FRR ---/90/90 Light Steel Framing

Scale

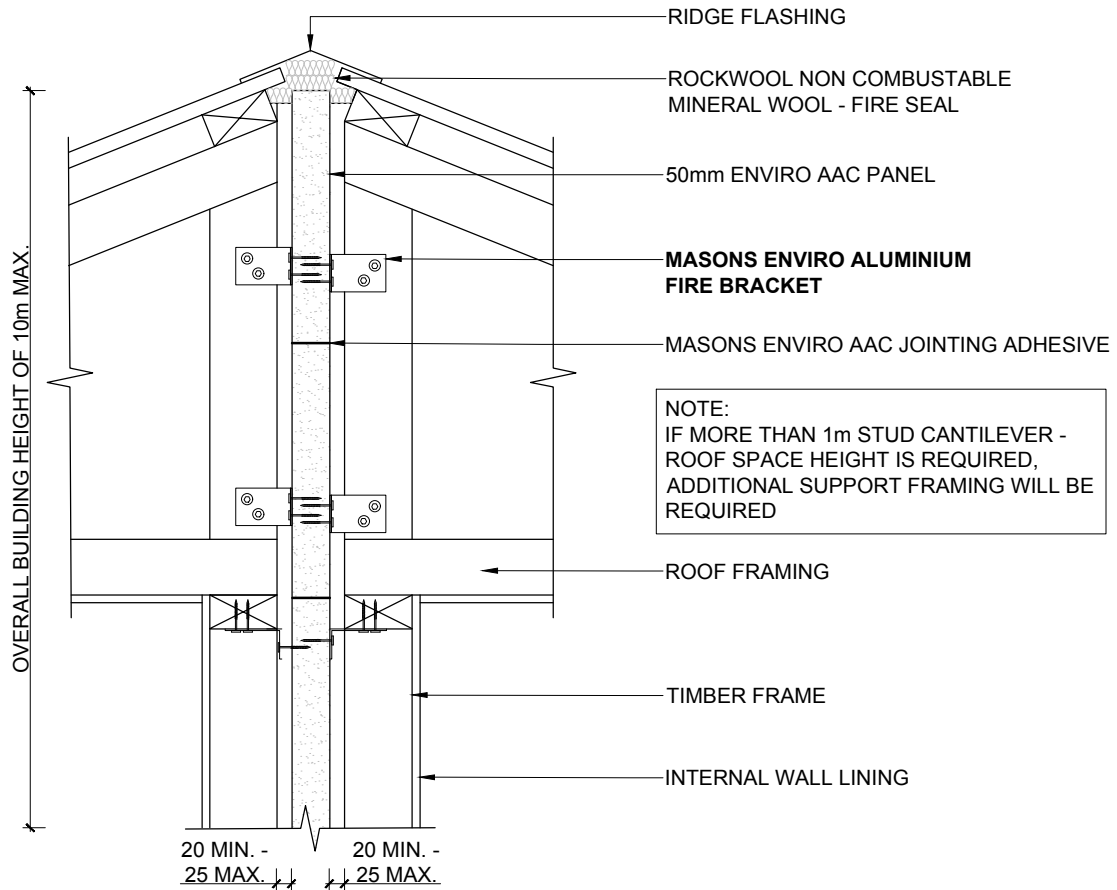
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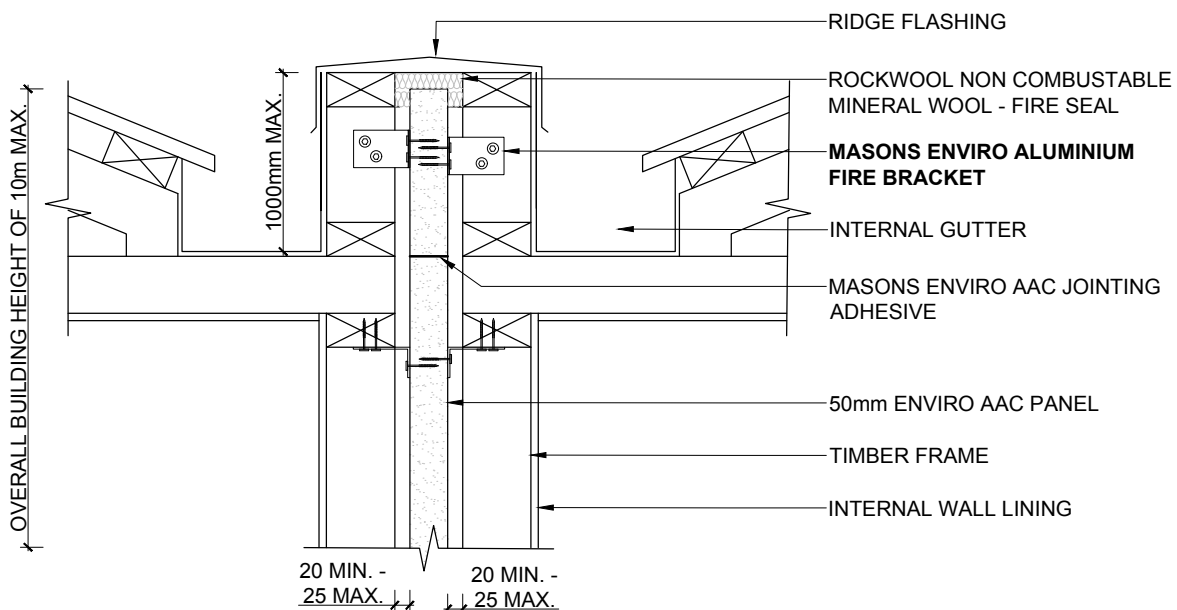
4th Nov 2024

Drawing No.

ITW.11 Rev1



PITCHED ROOF JUNCTION



ROOF PARAPET JUNCTION



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

'Nib' Wall & Intersection with Cladding
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

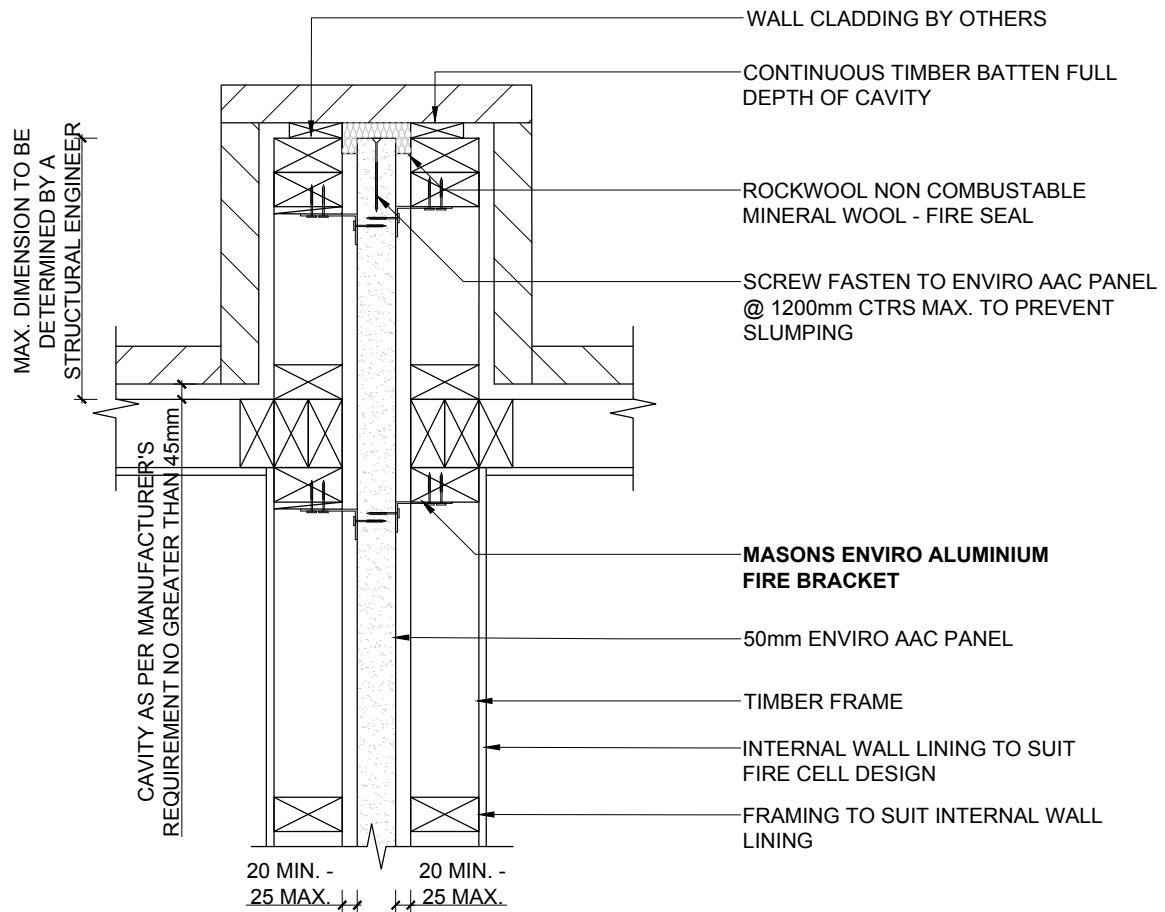
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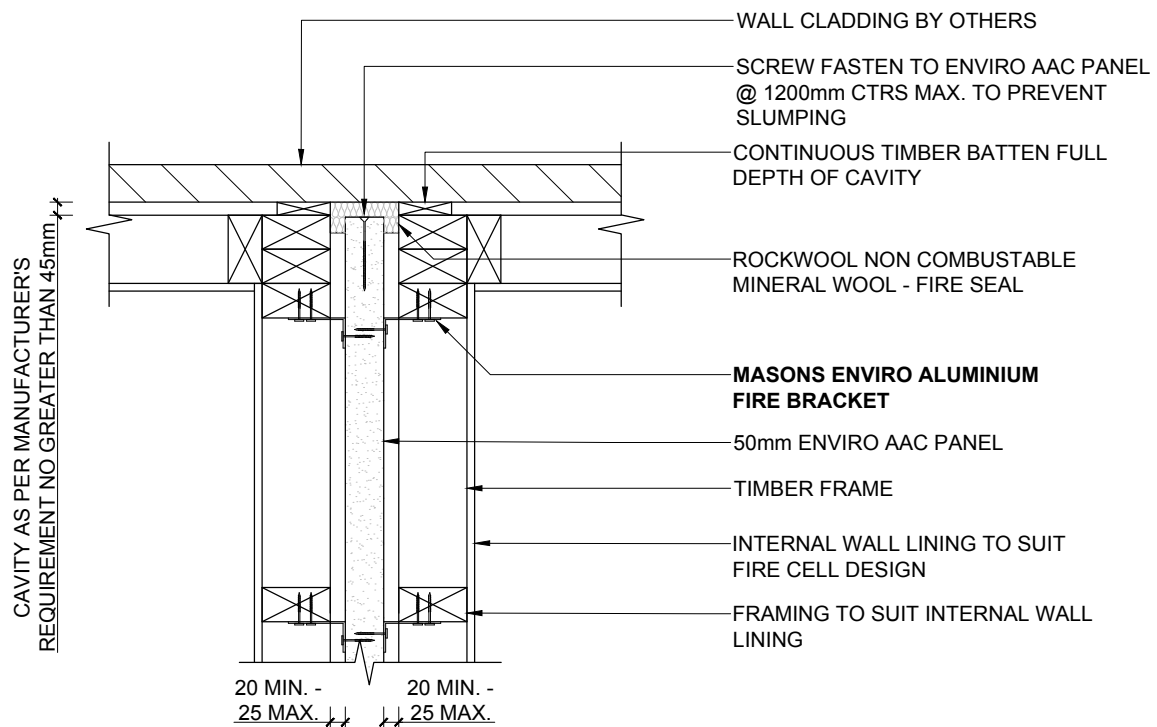
Date

4th Nov 2024

Drawing No.

ITW.12 Rev1

'NIB' JUNCTION



INTERSECTION WITH CLADDING



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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

Panel to External Wall & Typical Corner Junction

FRR 120/120/120 Timber Frame *only*

FRR ---/90/90 Light Steel Framing

Scale

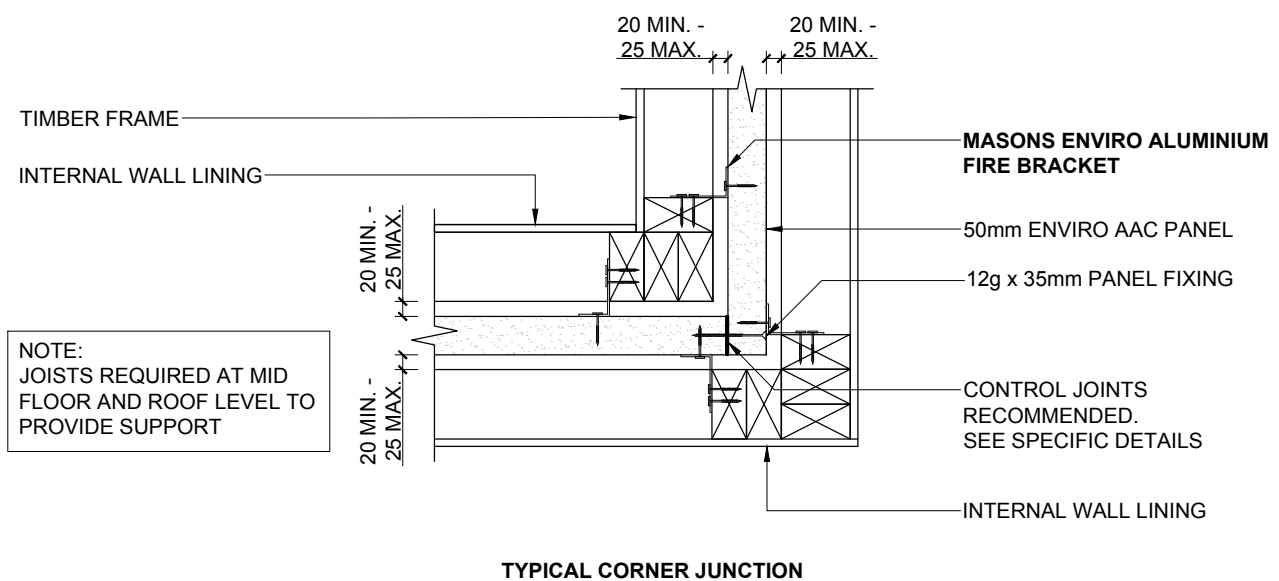
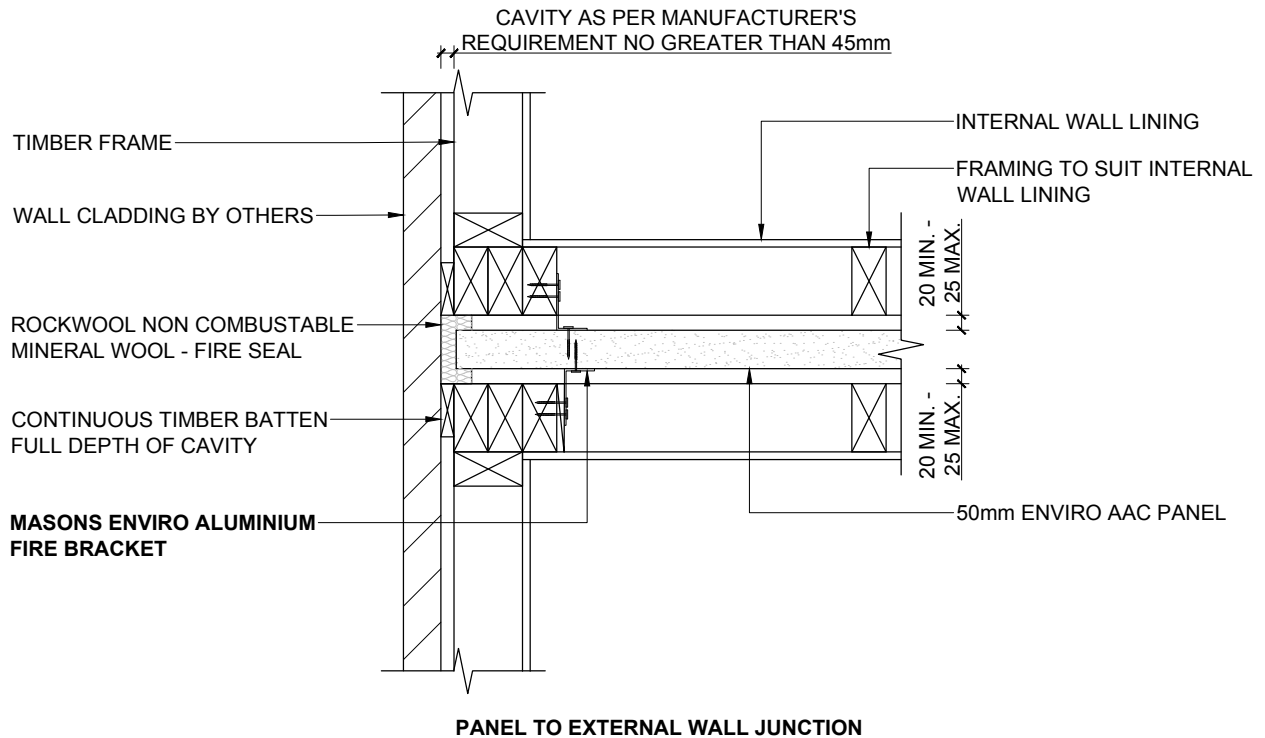
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Date

4th Nov 2024

Drawing No.

ITW.13 Rev1



**MASONS**
Designed Smart, Built Tough.**Masons Enviro AAC 50mm
Inter Tenancy Wall System**Typical Soffit Detail - Option 1 & 2
FRR 120/120/120 Timber Frame *only*
FRR ---/90/90 Light Steel Framing

Scale

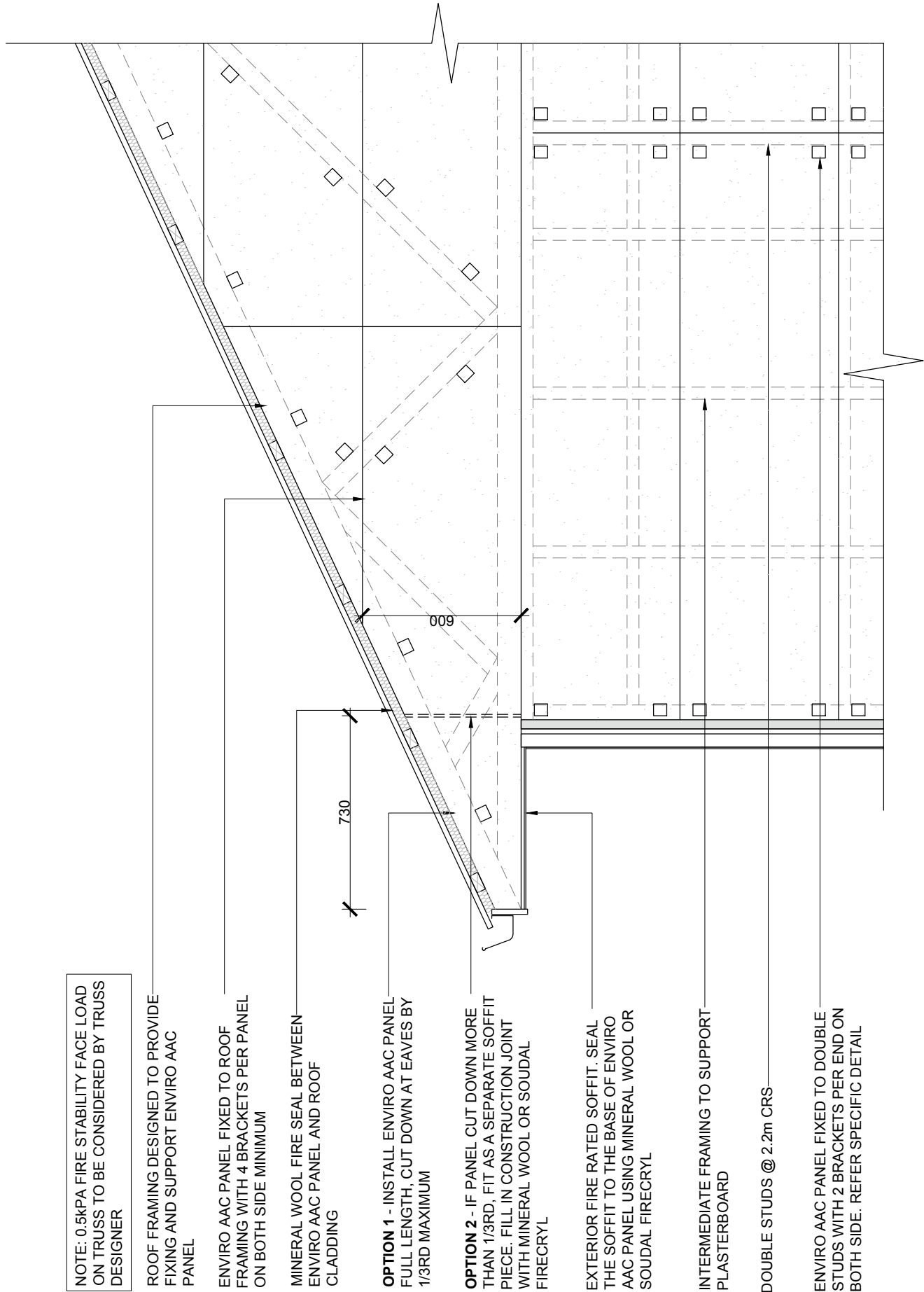
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Date

4th Nov 2024

Drawing No.

ITW.14 Rev1





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**Masons Enviro AAC 50mm
Inter Tenancy Wall System**

First Floor Cantilever

FRR 120/120/120 Timber Frame *only*

FRR ---/90/90 Light Steel Framing

Scale

1:50

Date

13th Oct 2025

Drawing No.

ITW.15 Rev2

MINERAL WOOL FIRE SEAL BETWEEN
ENVIRO AAC PANEL AND ROOF
CLADDING. REFER SPECIFIC DETAIL

ENVIRO AAC PANEL FIXED TO ROOF
FRAMING WITH 4 BRACKETS PER
PANEL ON BOTH SIDE MINIMUM - 8 IN
TOTAL PER PANEL

INTERMEDIATE FRAMING TO SUPPORT
PLASTERBOARD

DOUBLE STUDS @ 2.2m CRS

ENVIRO AAC PANEL FIXED TO
DOUBLE STUDS WITH 2 BRACKETS
PER END ON BOTH SIDE. REFER
SPECIFIC DETAIL

NOTE: 4 x MASONS ENVIRO
ALUMINIUM FIRE BRACKET PER SIDE
OF PANEL REQUIRED IF CONCRETE
FLOOR IS AT THE UPPER LEVEL

EXTERIOR FIRE RATED SOFFIT. SEAL
THE SOFFIT TO THE BASE OF ENVIRO
AAC PANEL USING MINERAL WOOL
OR SUDAL FIRECRYL

ENVIRO AAC PANEL FIXED TO
DOUBLE STUDS WITH 2 BRACKETS
PER END ON BOTH SIDE. REFER
SPECIFIC DETAIL

INTERMEDIATE FRAMING TO SUPPORT
PLASTERBOARD

MASONS ENVIRO C-CHANNEL
FIXED TO CONCRETE FLOOR
STRUCTURE AT SPECIFIED CENTRES

NOTE: CANTILEVER LENGTH DEPENDS ON THE
JOIST SIZE, JOIST SPACING, ROOF LOADS (AND
SPAN), FLOOR LOADS ETC MUST BE CHECKED
BY A STRUCTURAL ENGINEER

