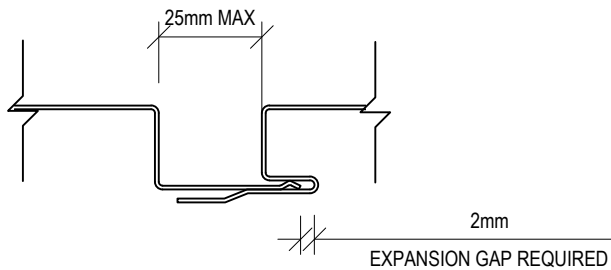
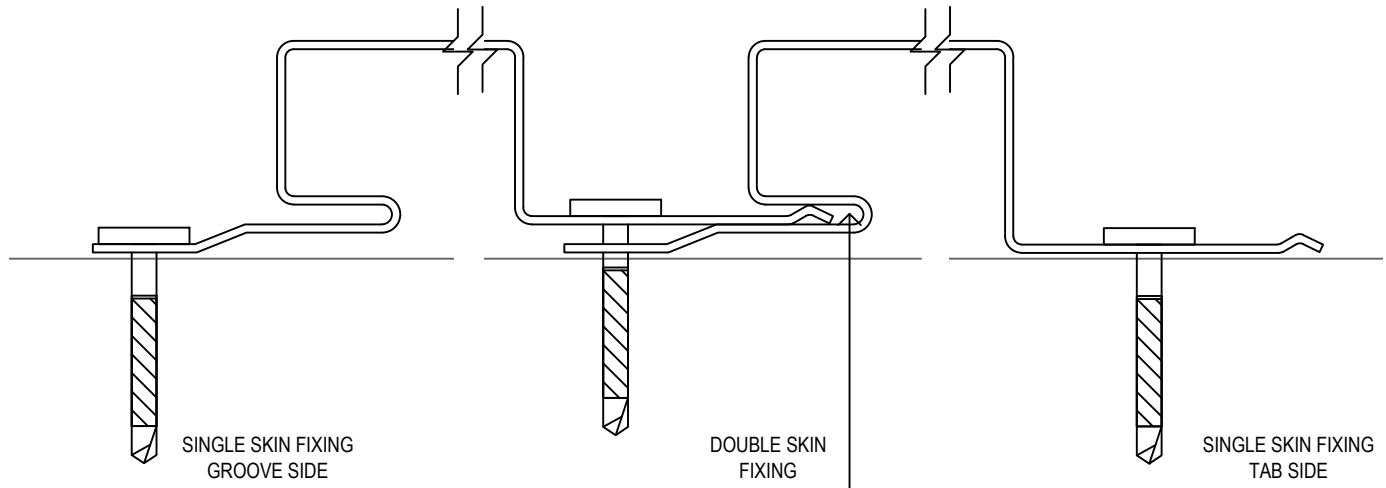


○ RAPID CLAD PANEL PROFILE DETAIL
SCALE: 1:2 @A4



○ RAPID CLAD CONNECTION DETAIL
SCALE: 1:2 @A4

COVER WIDTH (mm):	285	485
BASE METAL THICKNESS (BMT) mm:	0.55	0.55
MINIMUM GUARANTEED YIELD STRENGTH (MPa):	300 (G300)	300 (G300)
COATING CLASS:	ACCEPTABLE CORROSION PROTECTION FOR METAL SHEET ROOFING, WALLING, FLASHINGS AND CAPPONGS (TABLE 7.2.2a, PAGES 147-148, ABCB HOUSING PROVISIONS STANDARD 2022)	
SHEET LENGTH (mm):	1. MINIMUM: 1000mm 2. MAXIMUM: 8000mm. NOTE: TO MINIMIZE THE EFFECTS OF OIL CANNING IN THE CLADDING, 8000mm MAXIMUM LENGTHS IS RECOMMENDED.	
MASS PER UNIT LENGTH (kg/m)		
METALLIC COATED:	Z275=0.29	Z275=0.29
PRE-PAINTED:	PCP=0.230	PCP=0.230
MASS PER UNIT AREA (kg/m ²)		
METALLIC COATED:	Z275=0.29	Z275=0.29
PRE-PAINTED:	PCP=0.230	PCP=0.230
APPLICABLE AUSTRALIAN STANDARDS:	1. AS 1397: CONTINUOUS HOT-DIP METALLIC COATED STEEL SHEET AND STRIP - COATINGS OF ZINC AND ZINC ALLOYED WITH ALUMINIUM AND MAGNESIUM. 2. AS/NZS 2728: PREFINISHED/PREPAINTED SHEET METAL PRODUCTS FOR INTERIOR/EXTERIOR BUILDING APPLICATIONS - PERFORMANCE REQUIREMENTS	



SINGLE SKIN FIXING
GROOVE SIDE

DOUBLE SKIN
FIXING

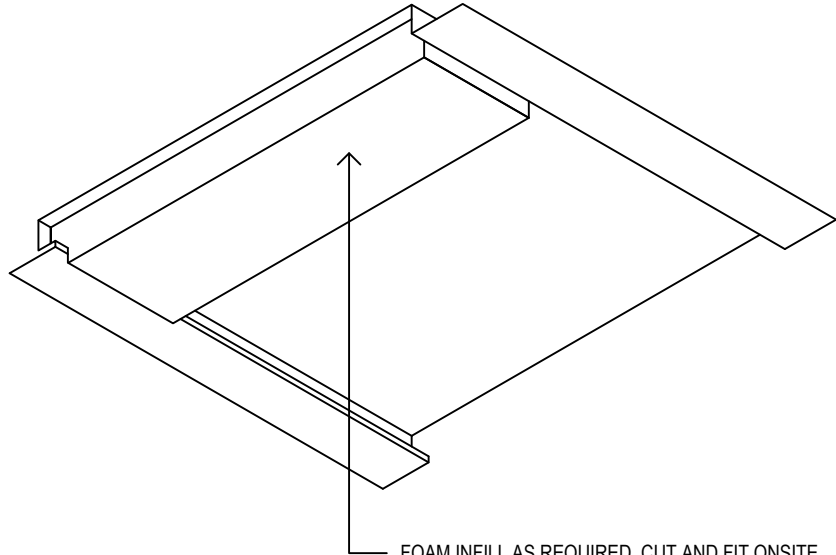
SINGLE SKIN FIXING
TAB SIDE

2mm EXPANSION GAP TO ALLOW FOR EXPANSION
& CONTRACTION



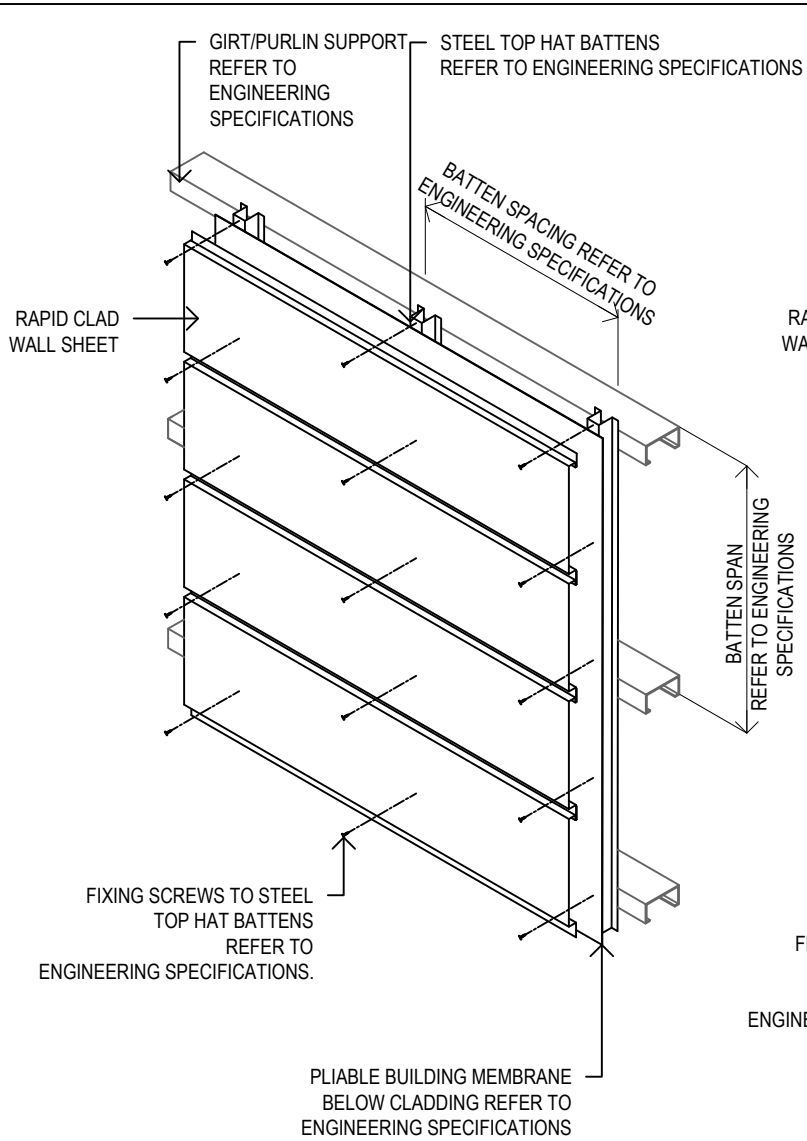
FASTENER FIXING DETAIL

SCALE: N.T.S. @A4



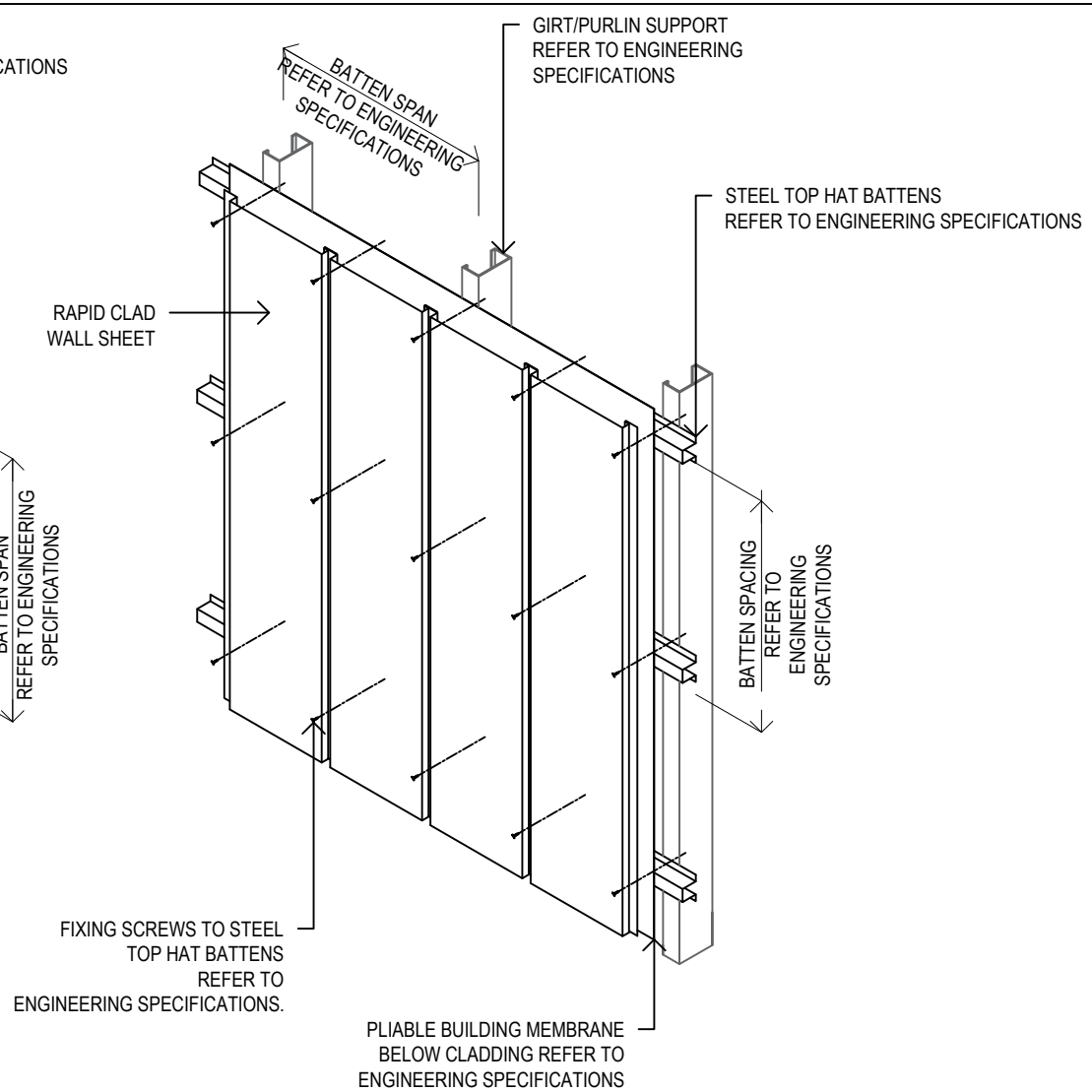
FOAM INFILL AS REQUIRED, CUT AND FIT ONSITE

○ FOAM INFILL DETAIL
SCALE: 1:5 @A4



HORIZONTAL RAPID CLAD WALL
FIXING TO STEEL BATTEN DETAIL

SCALE: 1:20 @A4



VERTICAL RAPID CLAD WALL FIXING
TO STEEL BATTEN DETAIL

SCALE: 1:20 @A4

**RAPID CLAD WALL 285 mm and 485 mm Cover fixing to steel battens:
Engineering Specification for Non-Cyclonic Wind Regions**

1. PLIABLE BUILDING MEMBRANE below cladding:

<u>Material classifications as per AS 4200.1</u>	<u>Classification</u>
Duty Classification	Light wall
Vapour control Classification	Class 4 VCM category: Vapour permeable
Water control Classification	Water Barrier

NOTES:

- 1) Refer to Architectural/Architect's specifications and construction details for all other Classifications as per AS 4200.1 and compliance with NCC Performance Requirements.
- 2) Installation shall be in accordance with AS 4200.2

2. Steel top hat battens:

- 1) 0.75 mm BMT; steel grade G550 for cladding with pan width 285 mm.
- 2) 40 mm overall depth x 32 mm overall top width - 75 mm overall bottom width; 0.55mm BMT; steel grade G550 for cladding with pan width 485 mm.
- 3) One screw at each edge and lap through both layers of materials per support.
- 4) Batten spacing: 450 mm maximum
- 5) Batten span: As per Engineering Specifications.

3. FIXING SCREWS into steel top hat battens:

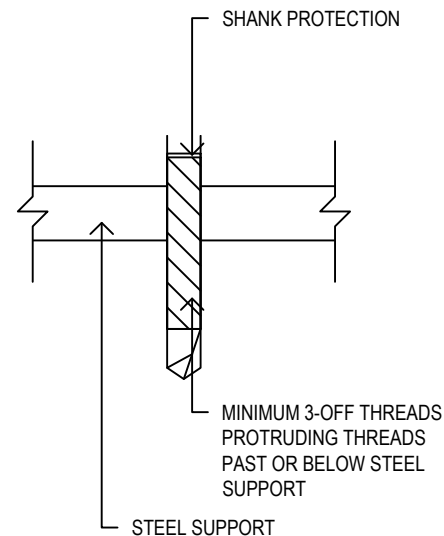
- 1) 10 gauge (4.8 mm) - 16 threads per inch x 16 mm length wafer head metal screw.
- 2) Screw spacing: As per batten spacing.
- 3) Minimum 3-off threads shall be visible below the thickness of steel support member.
- 4) Corrosion Resistance Class 4. [AS 3566.2].

4. Insulation blankets below wall cladding, when specified:

- 1) Refer to Architectural / Architect's specifications and construction details.
- 2) **Note:** Insulation blankets below roof cladding may require longer screw fasteners and greater care in installation.

5. Mechanical Fastener penetration and length into supporting metal (steel, aluminium):

- 1) Penetration into metal (steel, aluminium):
 - a) All connection specifications shall be determined by a Professional Engineer.
 - b) Screw penetration shall be in accordance with the screw manufacturer's recommendations.
 - c) At least 3-off threads shall be visible past or below the steel support - refer figure below.
 - d) The shank protection shall not reach the steel support - refer figure below.
- 2) Mechanical Fastener length:
 - a) The gauge and / or length of the screws may need to be increased when insulation blankets, boards, foam packers or any other boards/packers, are installed under the cladding.
 - b) Seeking advice from the screw manufacturer shall be considered, to determine the gauge, length and depth of screw penetration into metal and timber support.
- 3) Site trials and / or mock-up trials: To determine the suitability of the selected screws, site trials and / or mock-up trials shall be considered.



**FASTENER PENETRATION INTO METAL
(STEEL/ALUMINIUM) DETAIL**



SCALE: N.T.S. @A4

TYPICAL INSTALLATION DETAILS:

Fixing of PLIABLE BUILDING MEMBRANE behind Rapid Clad wall cladding.

NOTE: This is referred to as: PLIABLE BUILDING MEMBRANE, on all typical installation drawings.

1. The PLIABLE BUILDING MEMBRANE shall be installed in accordance with AS 4200.2.
2. The PLIABLE BUILDING MEMBRANE shall be hung and sealed at the top. It shall be free of ripples and puckers with holding down battens between the structural battens securing it to the supporting members, refer figure Top of façade: Section view.
3. All laps in the PLIABLE BUILDING MEMBRANE shall be made with 150 mm lap sealed together with double sided tape between the faces and taped with premium quality sisal tape on the outside face.
4. The perimeter of the PLIABLE BUILDING MEMBRANE shall also be sealed with premium quality sisal tape, with holding battens and appropriately detailed flashings to secure it.
5. It is essential that attention shall be paid to ensuring that the PLIABLE BUILDING MEMBRANE is airtight, fixed in a manner that it will not flap and / or tear away at the laps and edges.
6. At the bottom of the façade a foot moulding and flashing shall be appropriately detailed and installed to direct any water away from the PLIABLE BUILDING MEMBRANE external of the facade. This shall be detailed in a manner as to allow any water to pass between the flashing and the foot moulding, refer figure Bottom of façade: Section view.

For all flashings and cappings, the following shall be in accordance with the requirements specified in: -

1. AS 1562.1: Design and installation of sheet roof and wall cladding. Part 1: Metal.
2. SA HB 39: Installation code for metal roof and wall cladding.

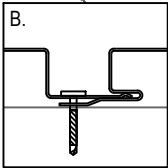
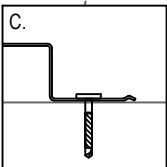
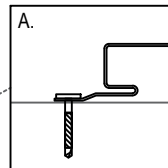
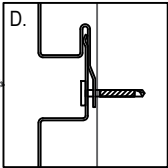
- 1) Materials.
- 2) Material compatibility.
- 3) Provision for expansion & contraction.
- 4) Sizes & covers.
- 5) Mechanical Fastening - fastener types, fastener frequency.
- 6) Special folds and anti-capillary breaks.
- 7) Wall and step flashings.
- 8) Lead flashings.
- 9) Penetrations - collar flashings, large penetrations.
- 10) All other flashings and cappings.

BATTEN SPACING REFER TO
ENGINEERING SPECIFICATIONS

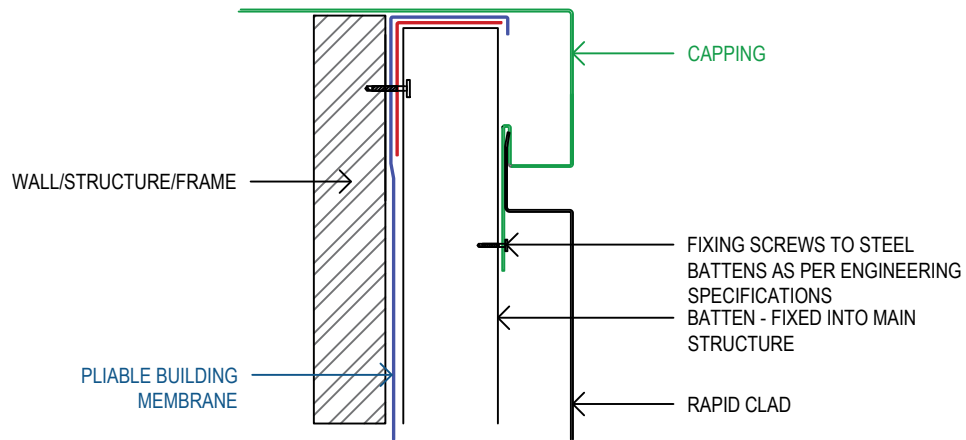
FIXING SCREWS TO STEEL TOP HAT
BATTENS. REFER TO ENGINEERING
SPECIFICATIONS

PROVIDE PLIABLE BUILDING
MEMBRANE BEHIND CLADDING.

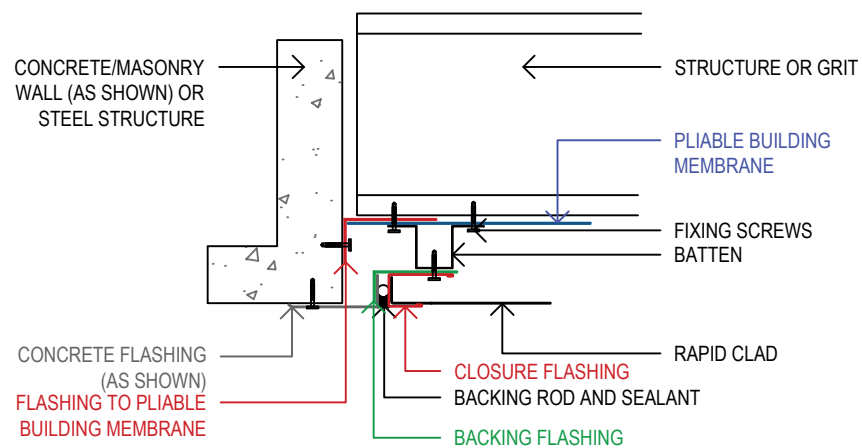
BATTEN SPAN
REFER TO
ENGINEERING
SPECIFICATIONS



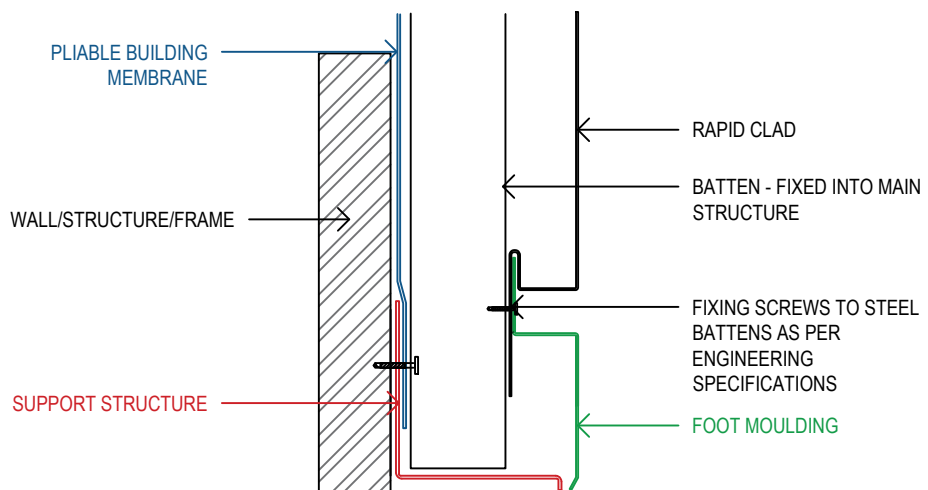
○ TYPICAL FIXING DETAIL
SCALE: N.T.S. @A4



TOP VIEW OF FACADE: SECTION VIEW
SCALE: N.T.S. @A4



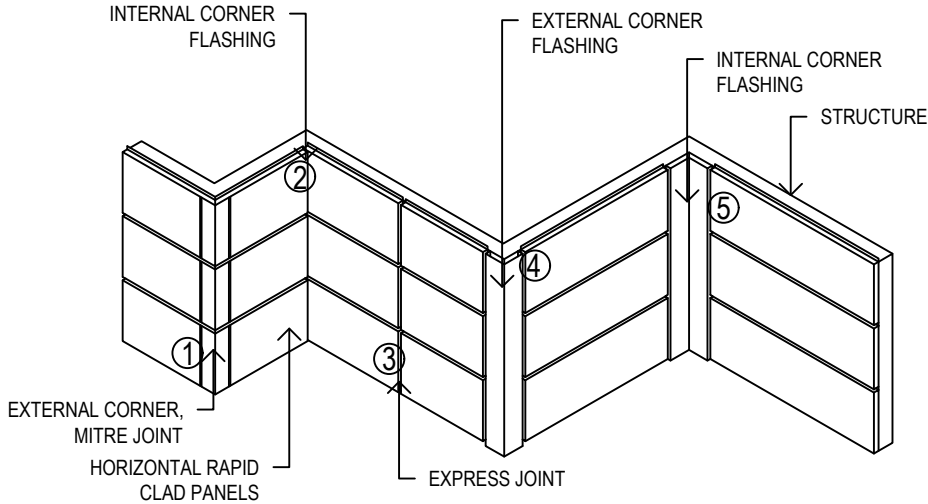
SIDE OF FACADE: PLAN VIEW
SCALE: N.T.S. @A4



BOTTOM VIEW OF FACADE: SECTION VIEW
SCALE: N.T.S. @A4

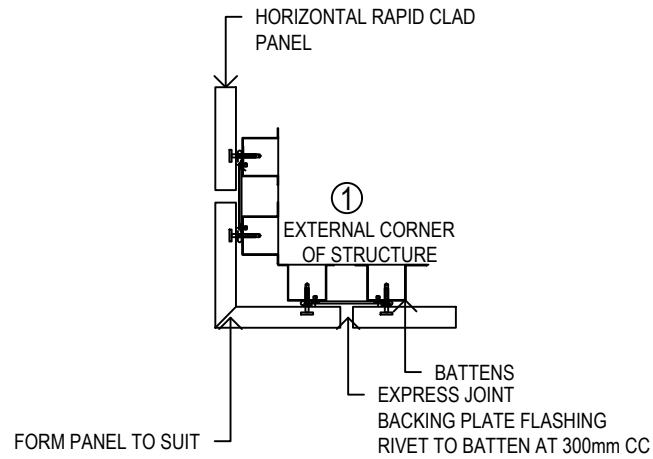
** ALL FIXING SCREWS TO STEEL SUPPORTING BATTENS REFER TO ENGINEERING SPECIFICATIONS

**EXTERNAL + INTERNAL FLASHING DETAIL FOR
HORIZONTAL INSTALLATION OF RAPID CLAD**



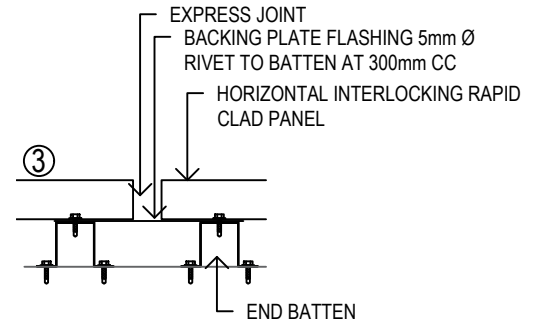
**CORNER FLASHINGS FOR PANELS IN HORIZONTAL
ORIENTATION: ISOMETRIC ELEVATION VIEW**

SCALE: N.T.S. @A4

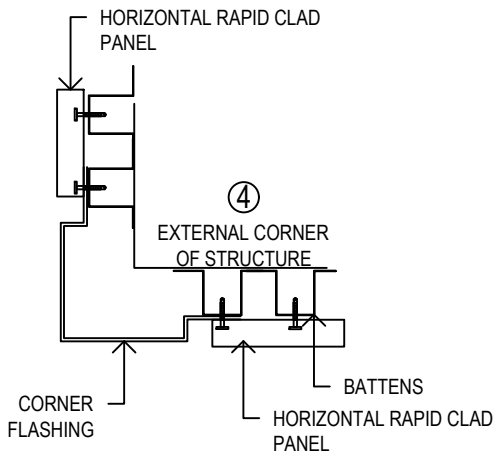


**EXTERNAL CORNER
MITRE JOINT: PLAN VIEW**

SCALE: N.T.S. @A4

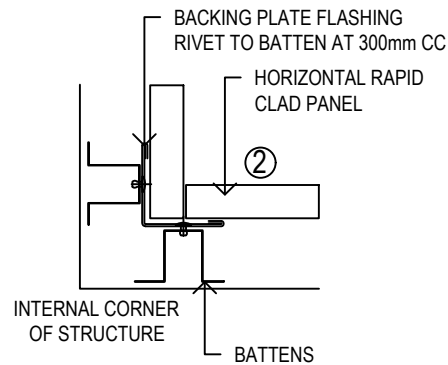


EXPRESS JOINT DETAIL
SCALE: N.T.S. @A4



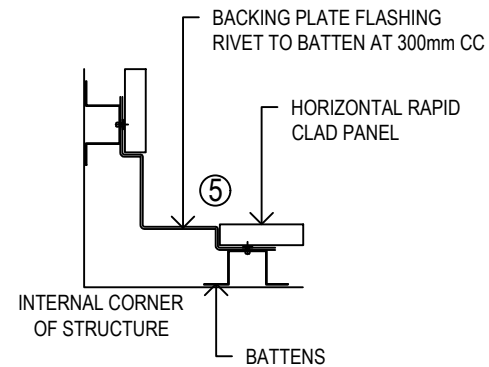
**EXTERNAL CORNER EXTERNAL
FLASHING: PLAN VIEW**

SCALE: N.T.S. @A4



**INTERNAL CORNER
FLASHING: PLAN VIEW**

SCALE: N.T.S. @A4

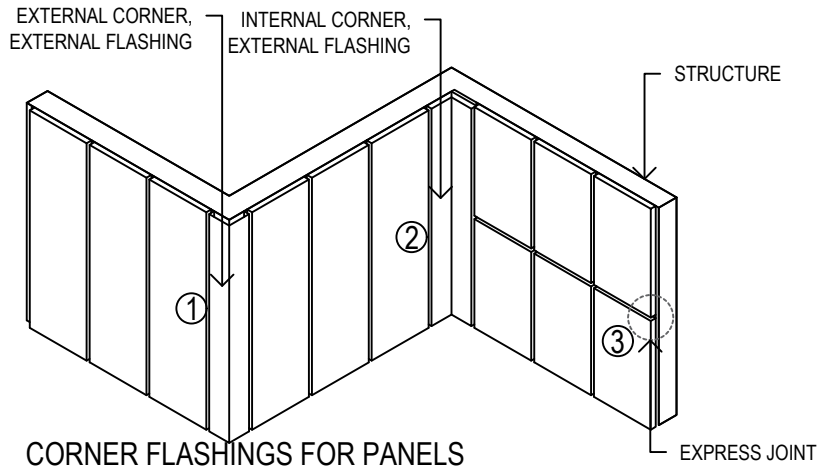


**INTERNAL CORNER
FLASHING: PLAN VIEW**

SCALE: N.T.S. @A4

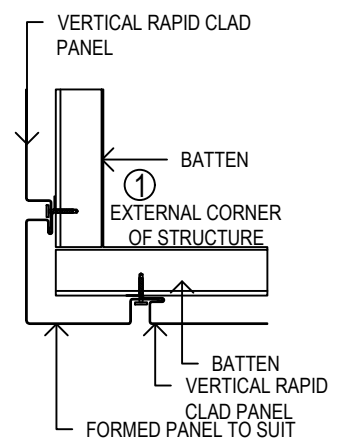
**** ALL FIXING SCREWS TO STEEL SUPPORTING BATTENS
REFER TO ENGINEERING SPECIFICATION**

EXTERNAL + INTERNAL FLASHING DETAIL FOR VERTICAL INSTALLATION OF RAPID CLAD



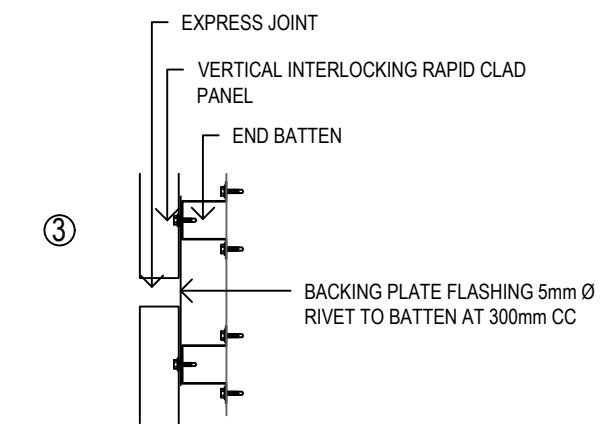
**CORNER FLASHINGS FOR PANELS IN VERTICAL ORIENTATION:
ISOMETRIC ELEVATION VIEW**

SCALE: N.T.S. @A4



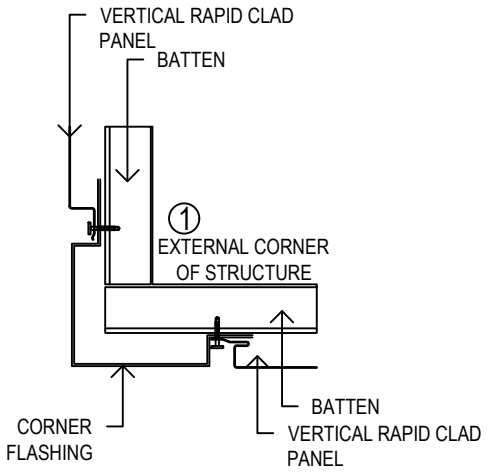
EXTERNAL CORNER FORMED PANEL: PLAN VIEW

SCALE: N.T.S. @A4



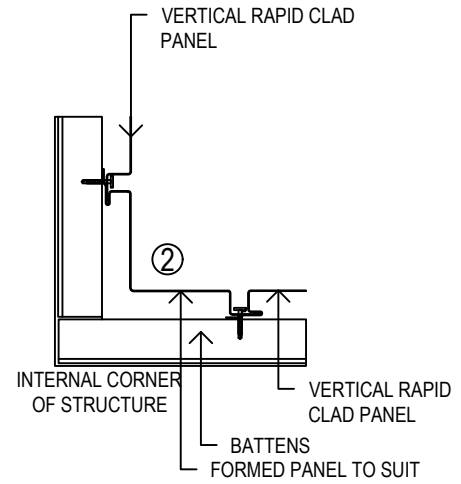
EXPRESS JOINT DETAIL

SCALE: N.T.S. @A4



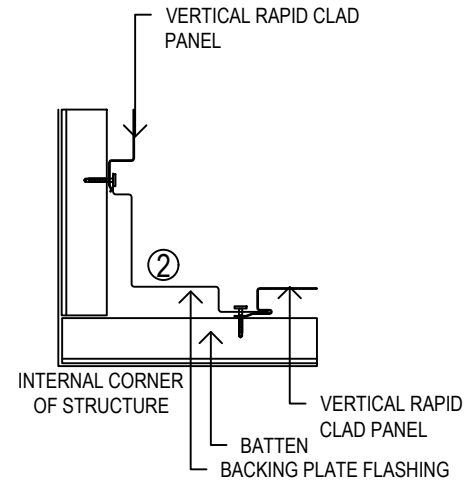
EXTERNAL CORNER EXTERNAL FLASHING: PLAN VIEW

SCALE: N.T.S. @A4



INTERNAL CORNER FORMED PANEL: PLAN VIEW

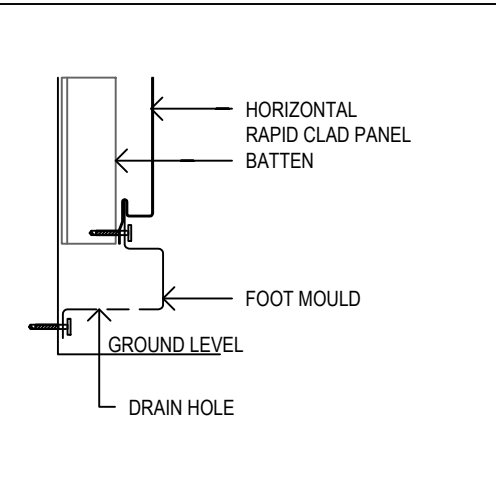
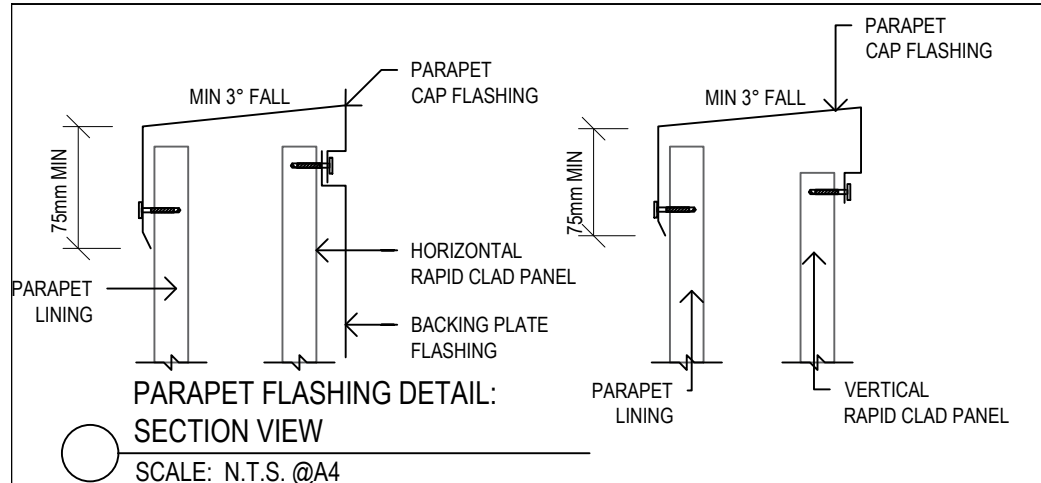
SCALE: N.T.S. @A4



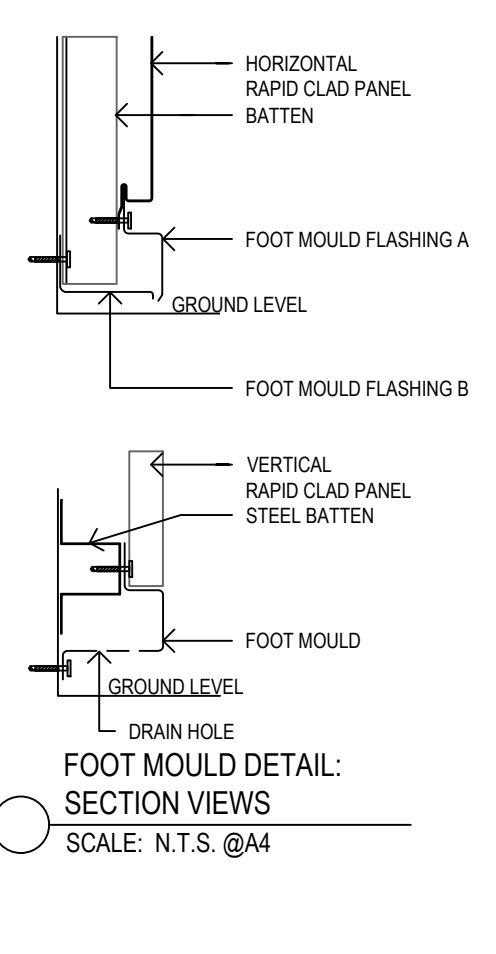
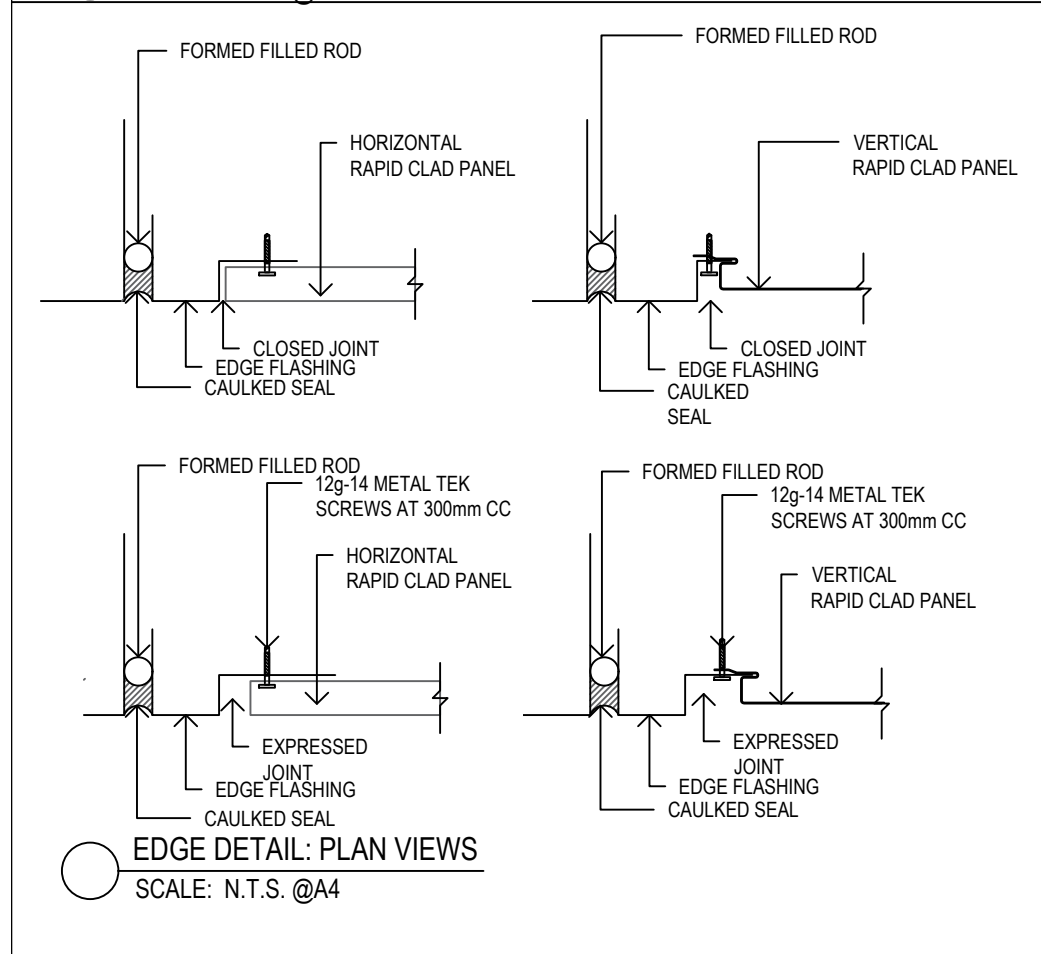
INTERNAL CORNER FLASHING: PLAN VIEW

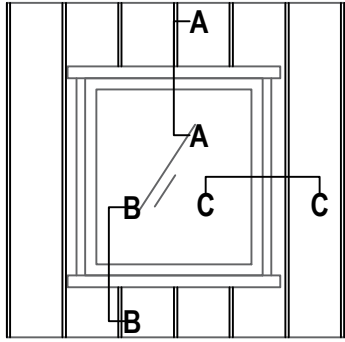
SCALE: N.T.S. @A4

**** ALL FIXING SCREWS TO STEEL SUPPORTING BATTENS REFER TO ENGINEERING SPECIFICATION**

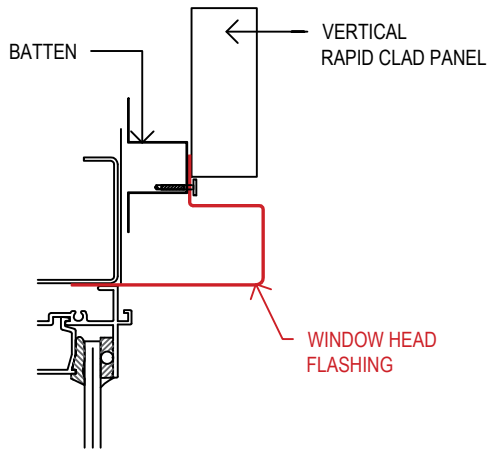


**** ALL FIXING SCREWS TO STEEL SUPPORTING BATTENS REFER TO ENGINEERING SPECIFICATIONS**

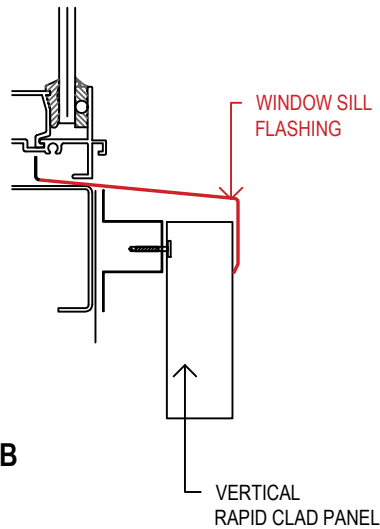




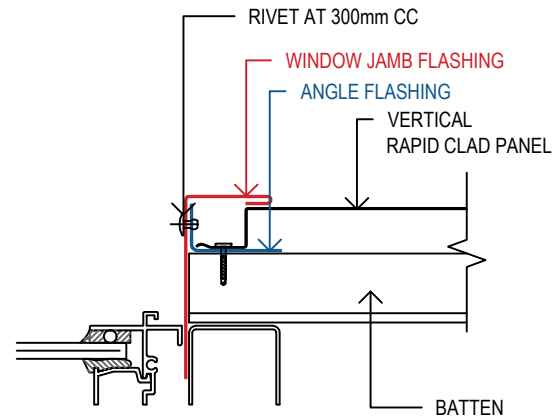
ELEVATION VIEW



A-A
HEAD AND SILL FLASHINGS TO BE TURNED UP/DOWN BEHIND JAMB FLASHING



B-B

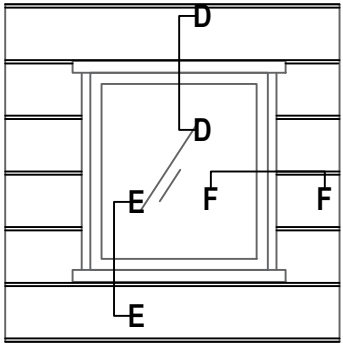


C-C
FLASHING FIXED PRIOR TO PANEL, IF NOT FIXED THROUGH EXPRESS JOINT

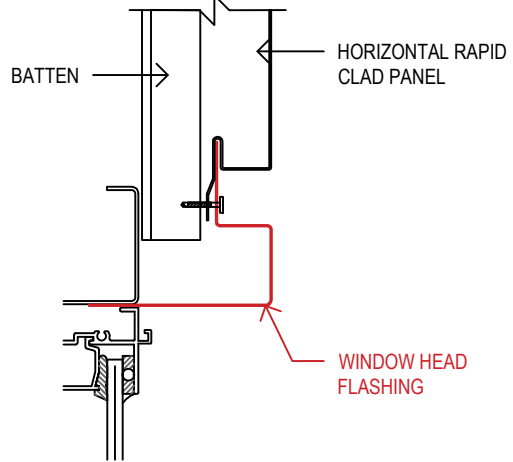
FLASHING AROUND OPENING -
VERTICAL PANEL

SCALE: N.T.S. @A4

** ALL FIXING SCREWS TO STEEL SUPPORTING BATTENS
REFER TO ENGINEERING SPECIFICATIONS

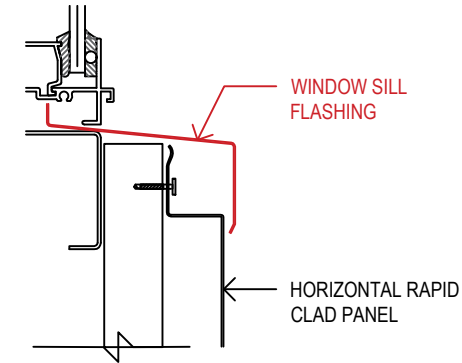


ELEVATION VIEW

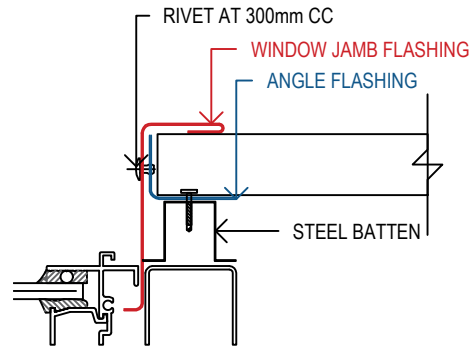


D-D

HEAD AND SILL FLASHINGS TO BE TURNED UP DOWN BEHIND JAMB FLASHING



E-E



F-F

FLASHING FIXED PRIOR TO PANEL, IF NOT FIXED THROUGH EXPRESS JOINT

FLASHING AROUND OPENING -
HORIZONTAL PANEL

SCALE: N.T.S. @A4

** ALL FIXING SCREWS TO STEEL SUPPORTING BATTENS
REFER TO ENGINEERING SPECIFICATIONS