FOCAL POINT RENDAPANEL ™ CLADDING SYSTEM

'Strength and durability'

SYSTEM INFORMATION & TECHNICAL SPECIFICATION

INTRODUCTION

Monolithic Light Weight Cement Render Cladding

RendaPanel is multi-layer, lightweight composite 'masonry' building panel. Designed to be used in residential applications, this versatile building panel is readily installed to timber framework with conventional fixings.

RendaPanel is finished with a multilayer reinforced cement render and textured surface.

This shall be Dulux Acratex specification Renda panel.

The completed walling system produces seamless 'rendered' monolithic facade with outstanding durability and attractiveness compared to other 'thinskin' lightweight cladding based on Fibre Cement Sheeting (FCS).

The truly outstanding features of RendaPanel is its inherent flexibility and insulating properties that reduced thermal structural movement that so often results in joint shadowing - so prevalent in FC Sheet Claddings. The propriety installation system and thermal resistance of RendaPanel achieves a highly efficient 'continuous' insulating layer not possible with other 'thinskin' facade cladding system.

RendaPanel has it origins in Europe and North America where EIFS (Exterior Insulating and Finishing Systems) have been extensively utilised since the late 50's. Similar applications have been used in Australia since the early 80's.

PROPERTIES

• Strength and Flexibility

The unique double-layered reinforced surface of RendaPanel achieves outstanding dimensional rigidity. However, its cellular core remains sufficiently flexibility to accommodate thermal and minor frame and structural movement- reducing the likelihood of joint cracking.

• Alignment and Installation

RendaPanel is supplied in convenient to handle sheet sizes of 2400mm X 1200mm, 2700mm X 1200mm and 3000mm X 1200mm.
It is easy to cut with a building knife or masonry power saw. The lightweight nature of this building board provides increased installation productivity with simple alignment and fixing using broad faced screw fixings.

• Thermal Properties

RendaPanel gains its exceptional insulating properties from its rigid cellular polystyrene core that contains trapped stabilized air within its cell like structure.

75mm thick M- Grade panel has a **R- Value of 1.875R**

- Renda Panel 75 mm = 1.875 R
- Enviro seal RW (Wall Wrap) = 0.15R
- Walling insulation shall be Bradford gold = 1.5R

Typical Total System R Value

- Renda panel 75 mm total wall = 3.525 R

Water/moisture management

The installation of a cavity to wall frames and an air gap between the wall frame and the cladding is mandatory.

This is achieved with the use of perforated or nonperforated 0.55mm (nominal) galvanized top hats.

The wall frame is first sarked with a wall wrap (Enviroseal rw) or wrap complying with AS/NZS 4200:1:2017 the wrap is then over flashed to the window and door frames with butyl bitumen flashing tape to ensure no gaps are left and a weatherproof seal.

Plastic DPC shall be Super course 500 230mm wide X 0.5mm thickness conforming to AS/NZS 2904.
Shall be installed at the footing level bottom with wall sarking overlapping over then allowed to protrude under and past Plastic starter channel allowing a path for moisture to drain. See drawing number DWG 05

APPLICATION INSTRUCTIONS OF FOCAL POINT RENDAPANEL

FRAMEWORK.

RendaPanel sheets are fixed to timber framing All frames shall comply with the relevant code and/or Australia Standard for the type of construction.

Studs should be positioned at a maximum of 600mm centers with noggins at maximum of 1350mm centers.

Top hat metal battens 0.55 shall be fixed horizontally placed at 600mm centers max to create a cavity. (Refer to Renda panel details)

This air cavity allows moisture to dry out and drain out.

Frames must be straight and plumb, and be laterally restrained, via floor or roof framing.

INSTALLATION.

Renda Panel sheets shall be vertically fixed on horizontal Battens. Class 3 Fixings are fixed at 275mm maximum centers on batten lines.

Focal Point mechanical disc fasteners are to be always used. Class 3 ten-gauge exterior fixings shall be started at 20 mm from the bottom of the first sheet at ground level. The sheets are installed vertically bond width size of 1200mm.

5 fixings shall be used per batten line for a 1200mm wide panel.

CUTTING.

Renda Panel sheets are easily cut, either by hand or by power tool. We recommend the use of a vacuumed tracked electric circular saw, fitted with a masonry diamond blade, which is also fitted with a vacuum extraction appliance. This gives an accurate clean cut and reduces the amount of waste of materials and time. Quick cuts can also be achieved with the use of a stanley knife, where a clean cut is not necessary.

FIXINGS.

Class 3 exterior screws ten gauge are used in conjunction with the Focal Point mechanical disc fastener. The assembled fixing is pushed through the Panel until the battens felt; making sure that the screw is aligned directly in the middle of the stud. The fixing is then driven into the frame until the plastic disc just penetrates the surface of the RendaPanel. **Care shall be taken to not overdrive the fixing, as this will strip the plastic disc and the fixing will be ineffective.**

75mm Renda panel = 100mm long class 3 exterior ten-gauge screws

JOINTING.

The joints in the sheets shall be left with a 5mm gap and then filled with an approved spray adhesive expanding foam.
There shall be no gaps left in panel joints. Spray adhesive expanding foam is left to cure and then cut level flush level with surrounding surfaces.

CONTROL JOINTS.

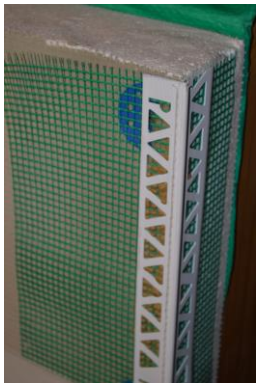
Control joints shall be placed at the points as construction plans articulation movement joints. They shall be constructed by leaving a 10mm gap and filling with a suitable foam backing rod and then paintable polyurethane mastic.

WINDOW/DOOR DETAILS –

The panel is fixed to the window head and sill as per section details with the reveals finished as well.

The wall frame is first sarked with a wall wrap (Enviroseal rw) the wrap is then over flashed to the window and door frames with butyl flashing tape to ensure no gaps are left.

Pre meshed corner beads are continuously adhesively fixed with construction adhesive to all window and door reveals.



FOOTING DETAILS.

Renda Panel shall have a minimum clearance of 75mm from the surface of the finished ground level.

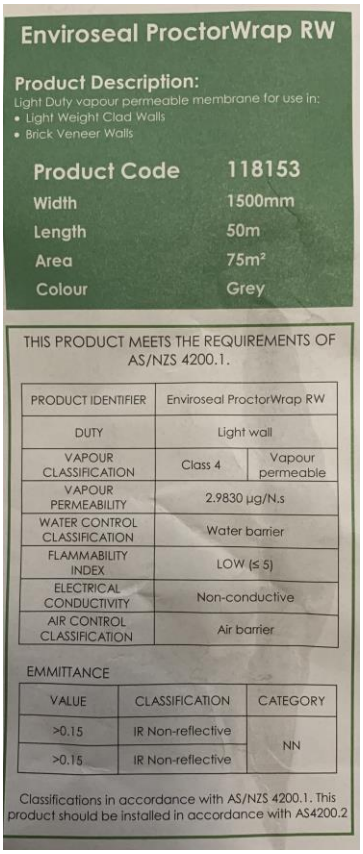
FINISHING AND COATING SYSTEM.

Renda Panel Shall be finished with

DULUX ACRA TEX DUSPEC SPECIFICATION SHEET RENDA PANEL

Renda Panel System Components

Breathable wall sarking shall be Enviroseal Protorwrap RW or a wrap complying with AS/NZS 4200:1:2017



Enviroseal ProctorWrap RW

Product Description:
Light Duty vapour permeable membrane for use in:
- Light Weight Clad Walls
- Brick Veneer Walls

Product Code	**118153**
Width	1500mm
Length	50m
Area	75m²
Colour	Grey

THIS PRODUCT MEETS THE REQUIREMENTS OF AS/NZS 4200.1.

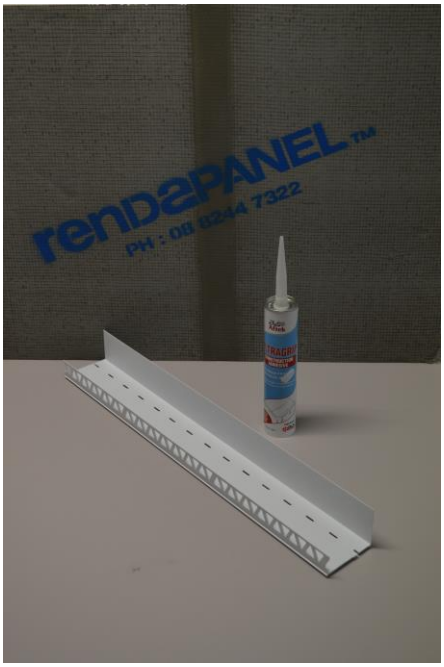
PRODUCT IDENTIFIER	Enviroseal ProctorWrap RW	
DUTY	Light wall	
VAPOUR CLASSIFICATION	Class 4	Vapour permeable
VAPOUR PERMEABILITY	2.9830 µg/N.s	
WATER CONTROL CLASSIFICATION	Water barrier	
FLAMMABILITY INDEX	LOW (≤ 5)	
ELECTRICAL CONDUCTIVITY	Non-conductive	
AIR CONTROL CLASSIFICATION	Air barrier	

EMMITTANCE

VALUE	CLASSIFICATION	CATEGORY
>0.15	IR Non-reflective	NN
>0.15	IR Non-reflective	

Classifications in accordance with AS/NZS 4200.1. This product should be installed in accordance with AS4200.2

Plastic starter channel shall be Render edge 75mm and Construction adhesive shall be Aftek ultra grip or Selleys fast grab or equivalent.



Window and door flashing shall be build smart Butyl bitumen self-adhesive flashing tape 75mm or equivalent.

Class 3 exterior screws 10guage x 100mm shall be bremick square drive or equivalent and shall be Focal point plastic mechanical disk.

Spray foam expandable adhesive shall be iccons foam flow or equivalent.

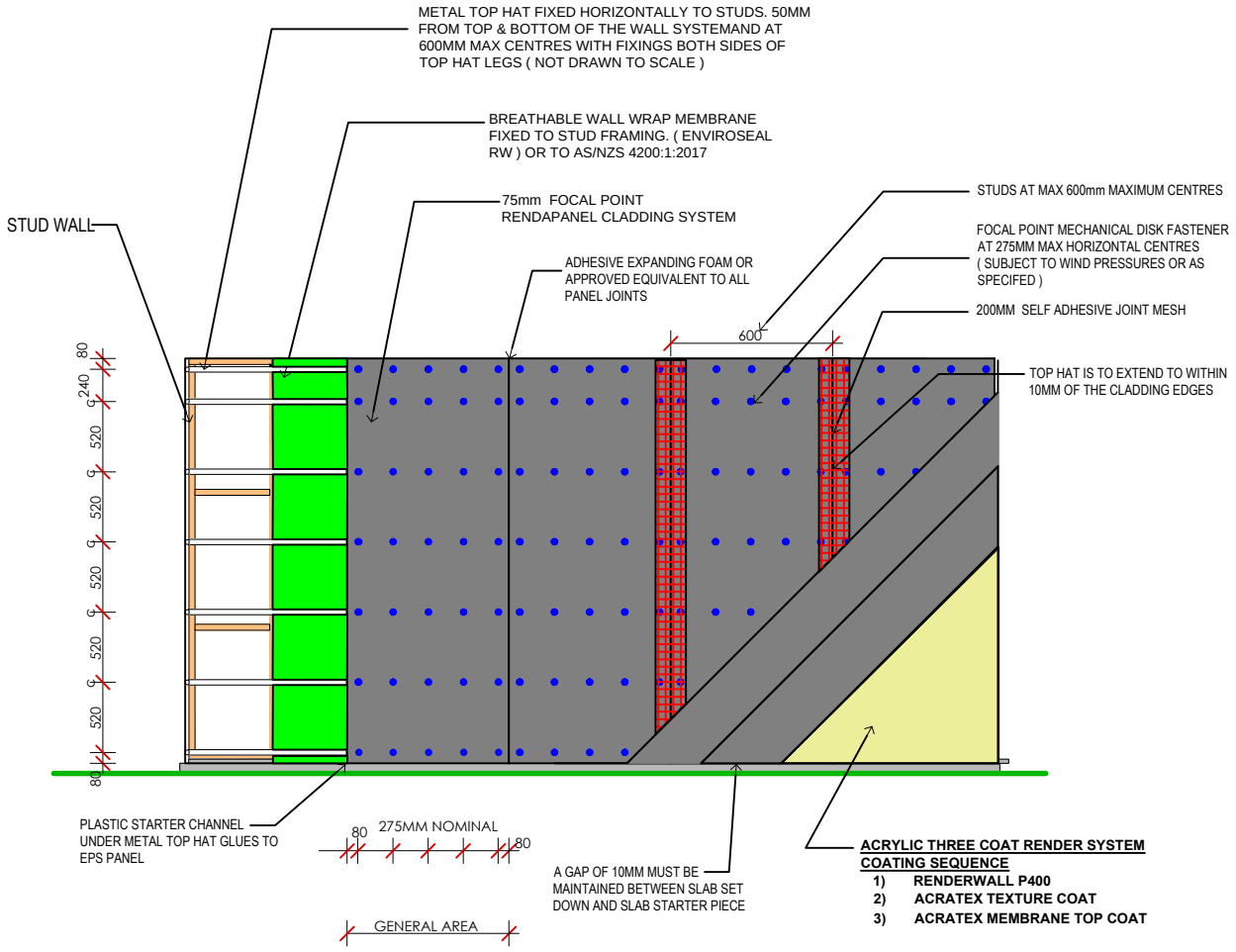
200mm joint self-adhesive 165gram 5 x 5 mm mesh shall be BuildSmart or equivalent.

Polyurethane sealant mastic shall be Bostic seal N flex or equivalent.

Thermal light weight insulation cladding system

rendaPANEL TM

Focal Point Architectural Mouldings



VERTICAL PANELS FIXED TO HORIZONTAL BATTENS

SCALE 1:50 - FIXING LAYOUTS FOR 75MM THICK PANELS

Thermal light weight insulation cladding system

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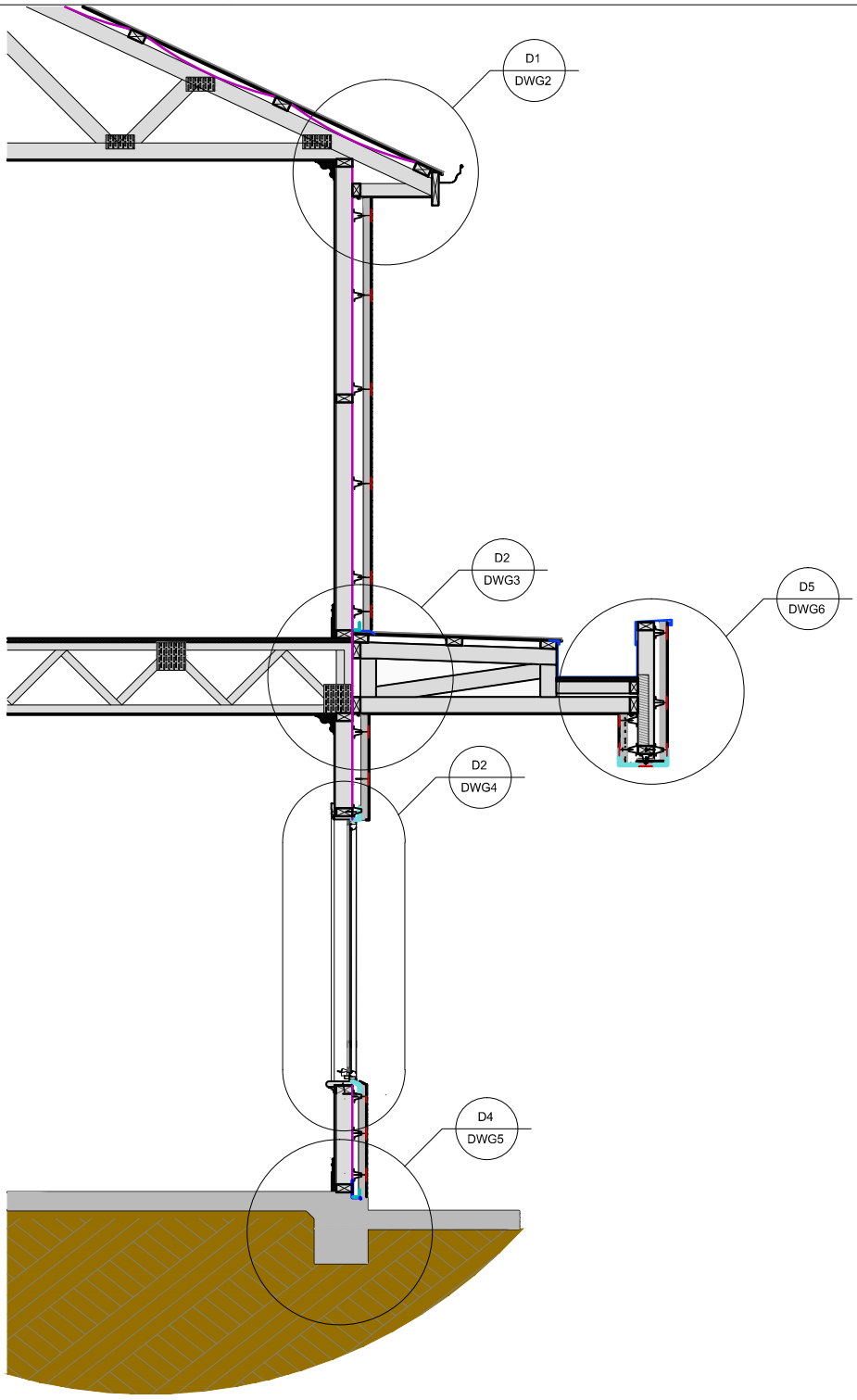
Focal Point Architectural Mouldings



TOP HAT CAVITY FIX SYSTEM - TYPICAL WALL SECTION

Not To Scale

DWG01

Thermal light weight insulation cladding system

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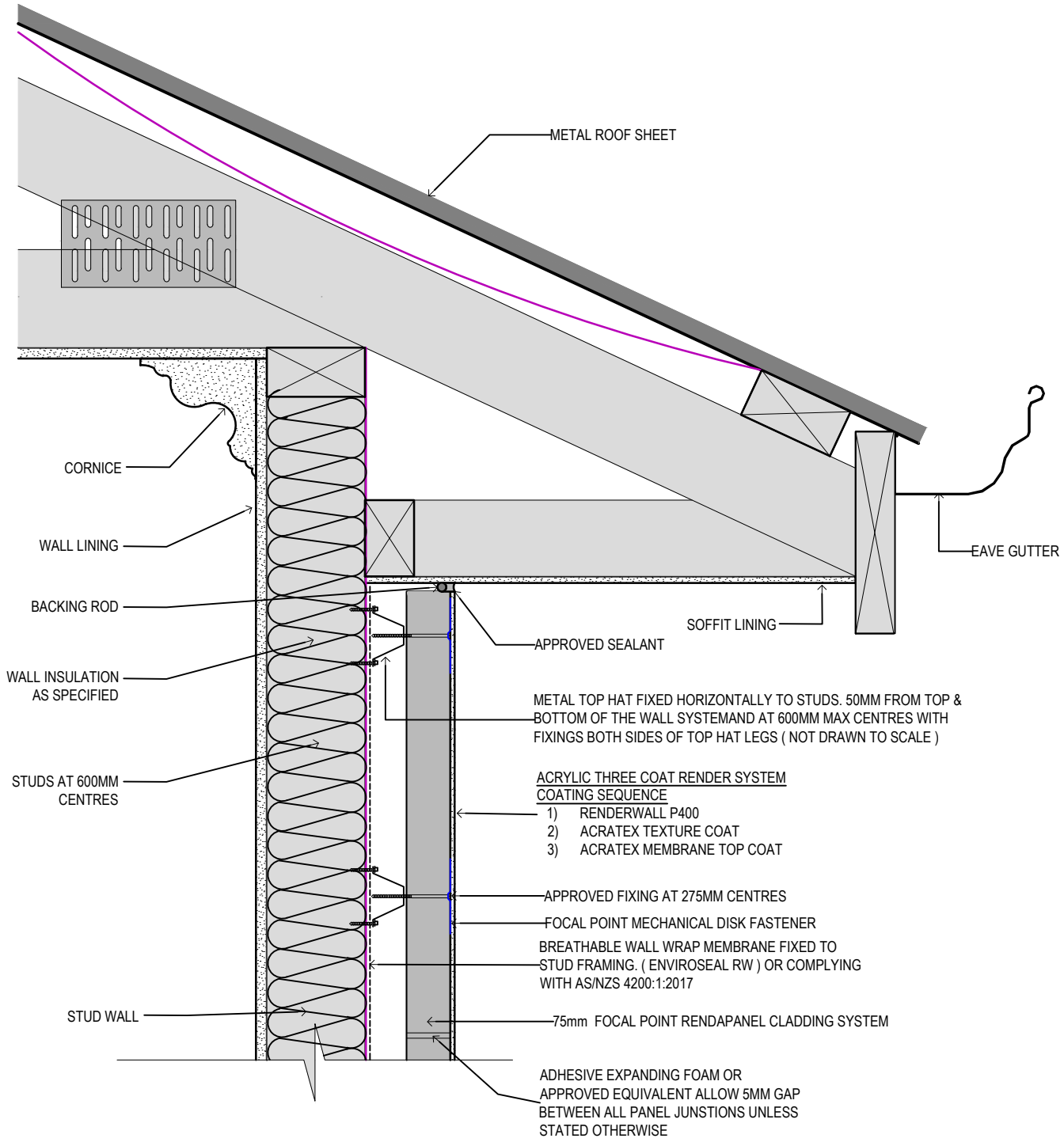

D1 - EAVE DETAIL

Scale 1:5

DWG02

Thermal light weight insulation cladding system

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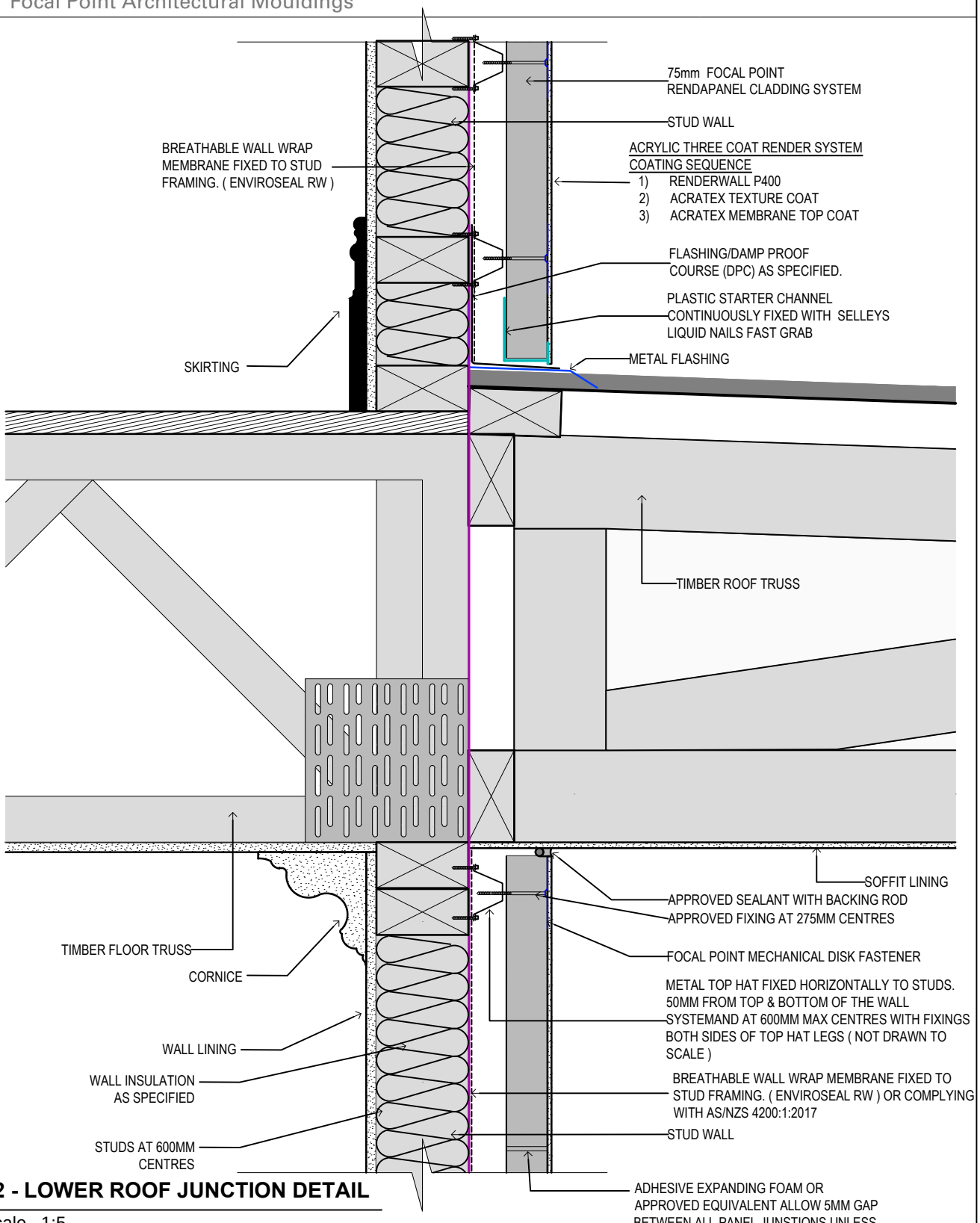
Focal Point Architectural Mouldings



D2 - LOWER ROOF JUNCTION DETAIL

Scale 1:5

DWG03

Thermal light weight insulation cladding system

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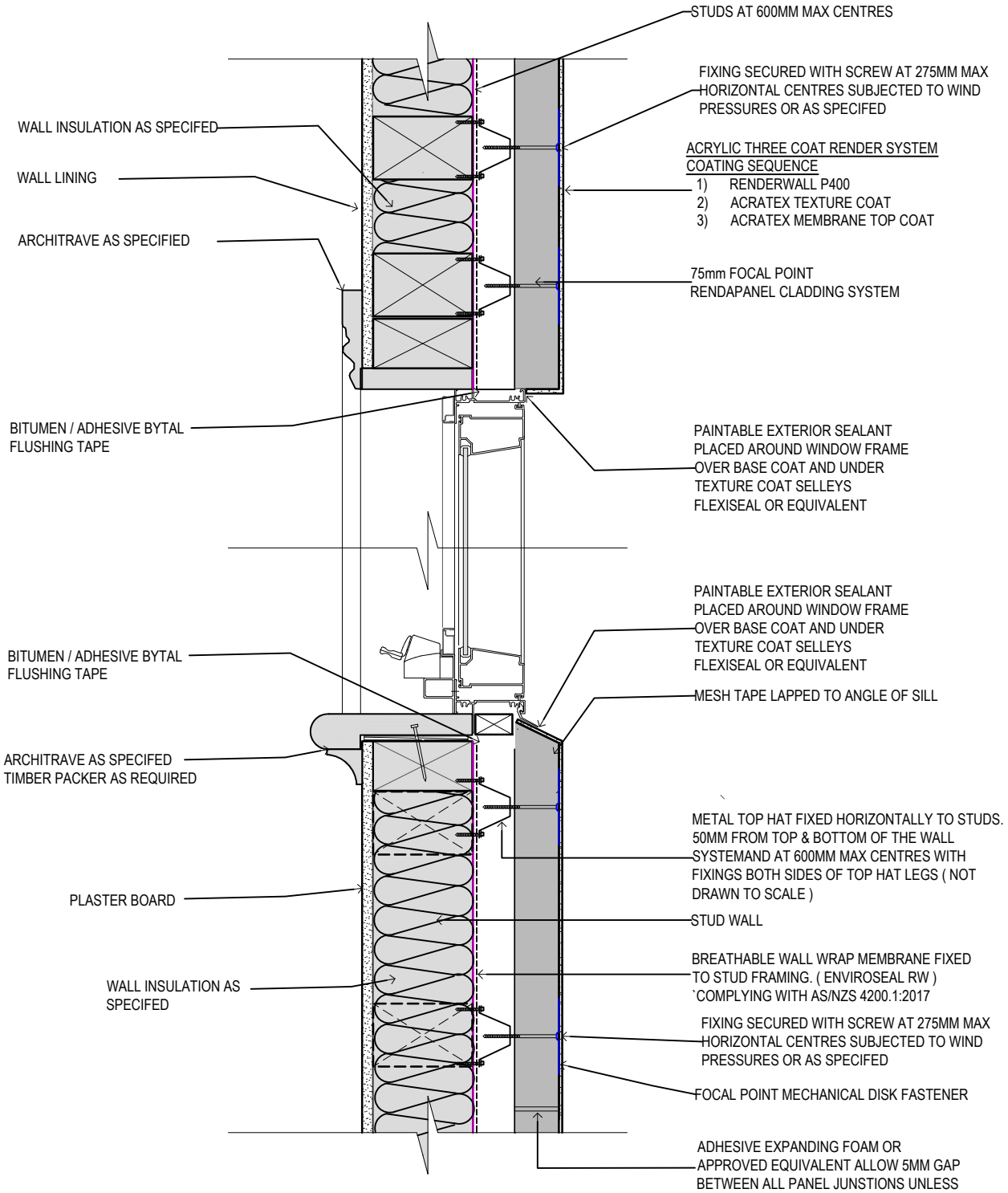

D3 - WINDOW HEAD & SILL DETAIL

Scale 1:5

DWG04

Thermal light weight insulation cladding system

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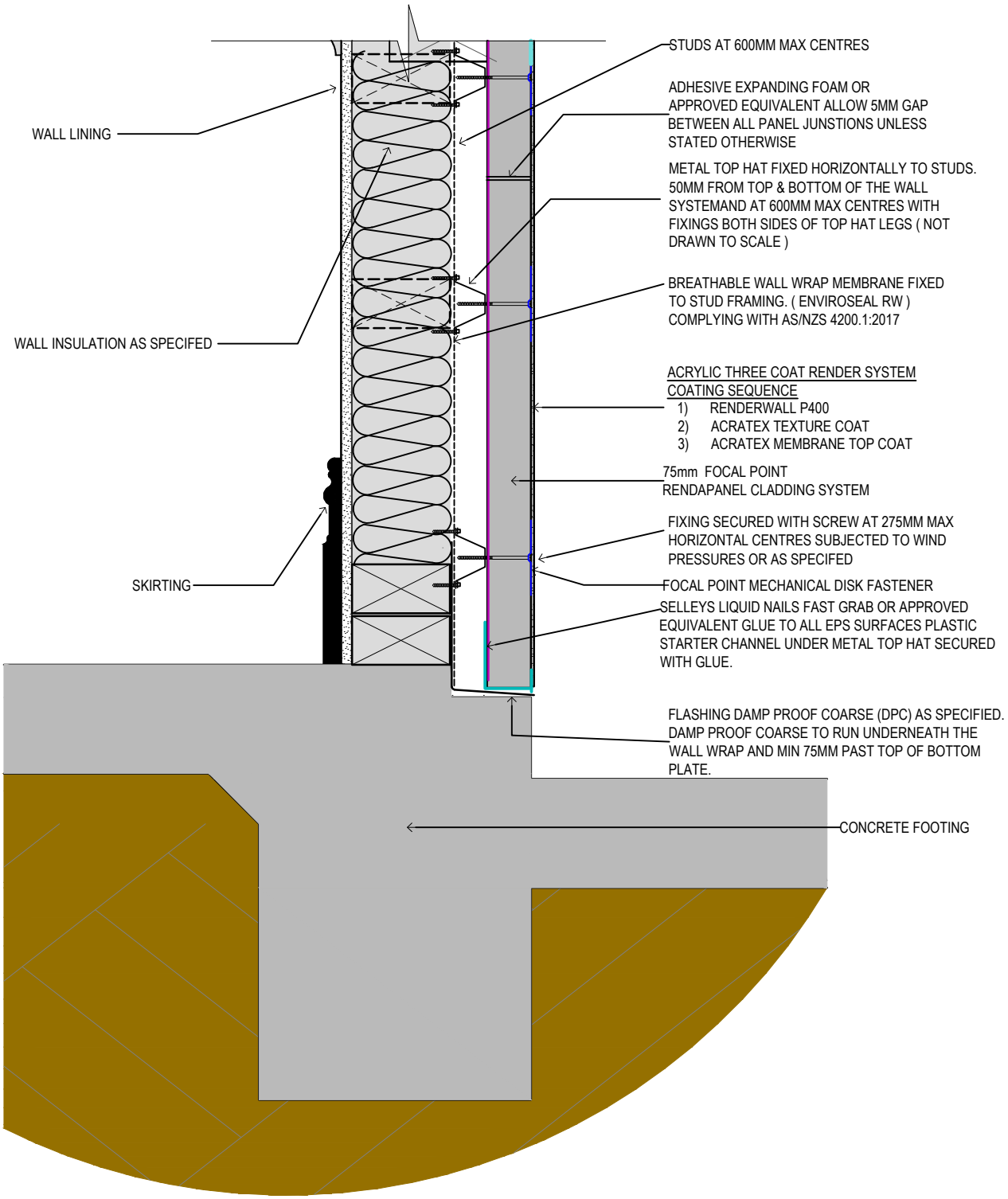

D4 - CONCRETE SLAB REBATE DETAIL

Scale 1:5

DWG05

Thermal light weight insulation cladding system

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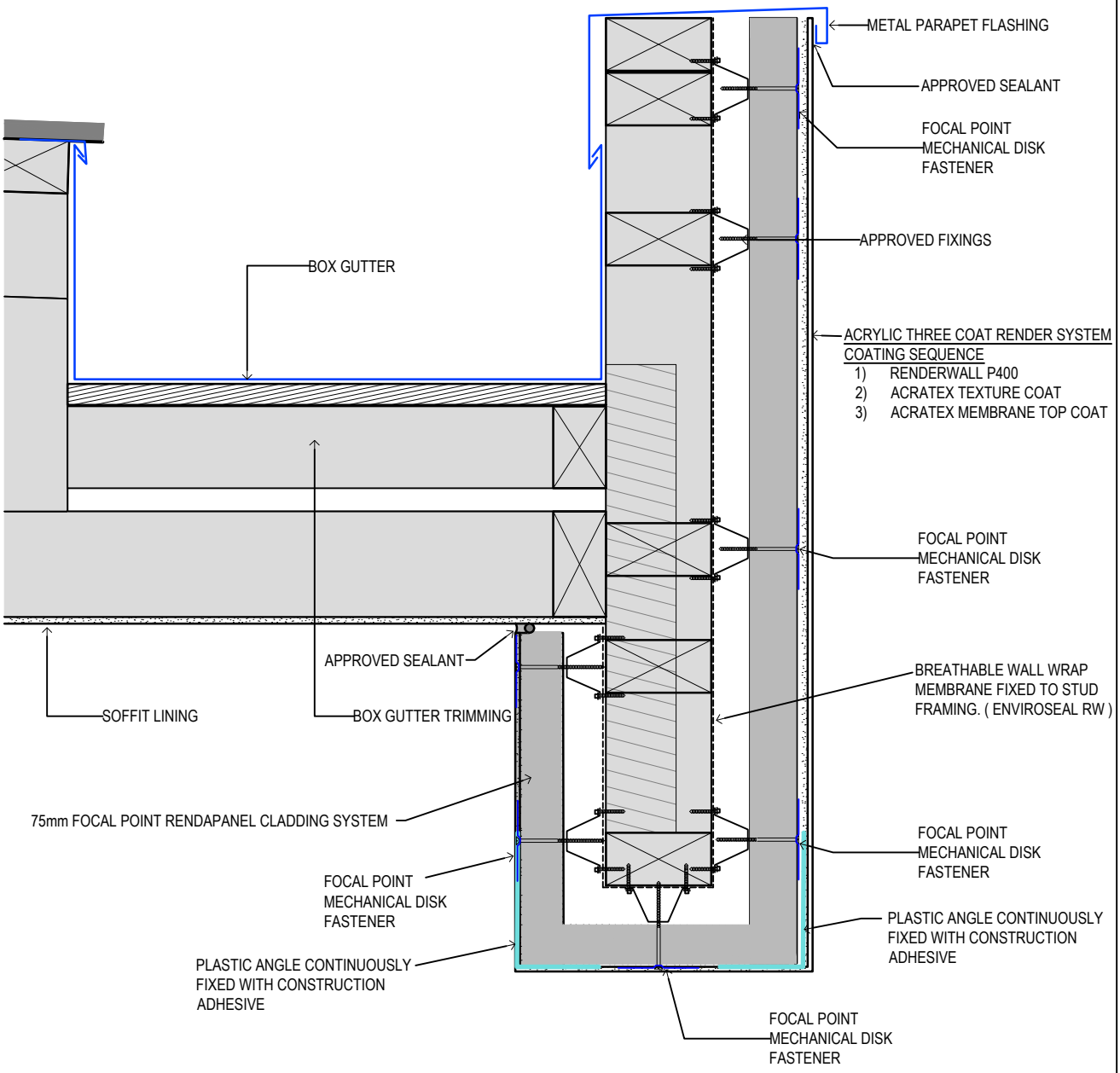
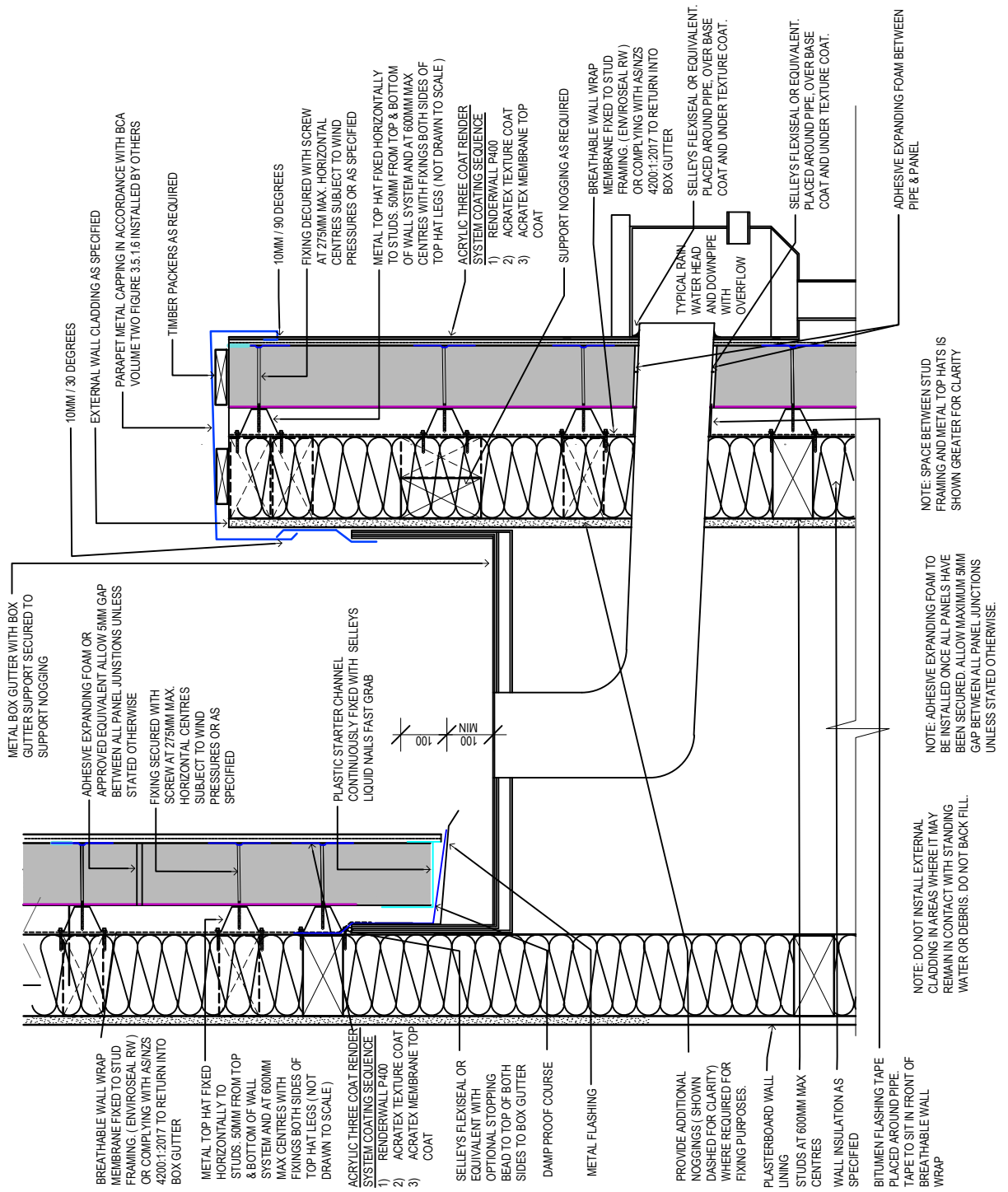
Focal Point Architectural Mouldings



D5 - BOX GUTTER / PARAPET DETAIL

Scale 1:5

DWG06



Scale NTS

D6 - TYPICAL HORIZONTAL TOP HAT CAVITY SYSTEM- METAL FLASHING PARAPET WITH BOX GUTTER TO RAIN WATER HEAD ADJACENT WALL