

PLANNING CONDITION 5
EXTERNAL SURFACES AND MATERIALITY
07.08.2025

NHM

**COLLECTIONS, DIGITISATION & RESEARCH CENTRE,
THAMES VALLEY SCIENCE PARK**

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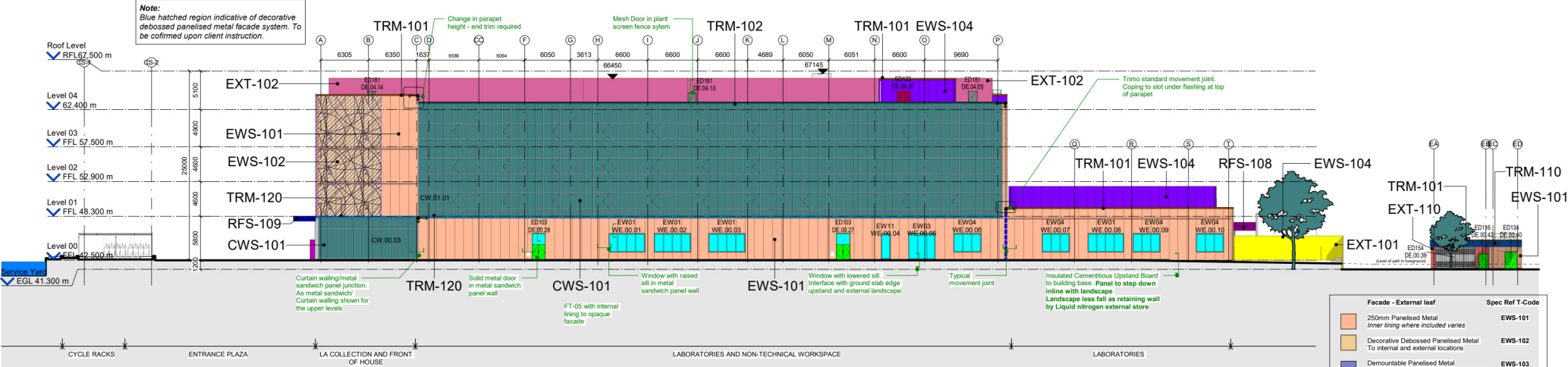
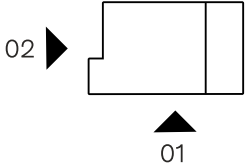
MATERIAL SCOPING ELEVATIONS



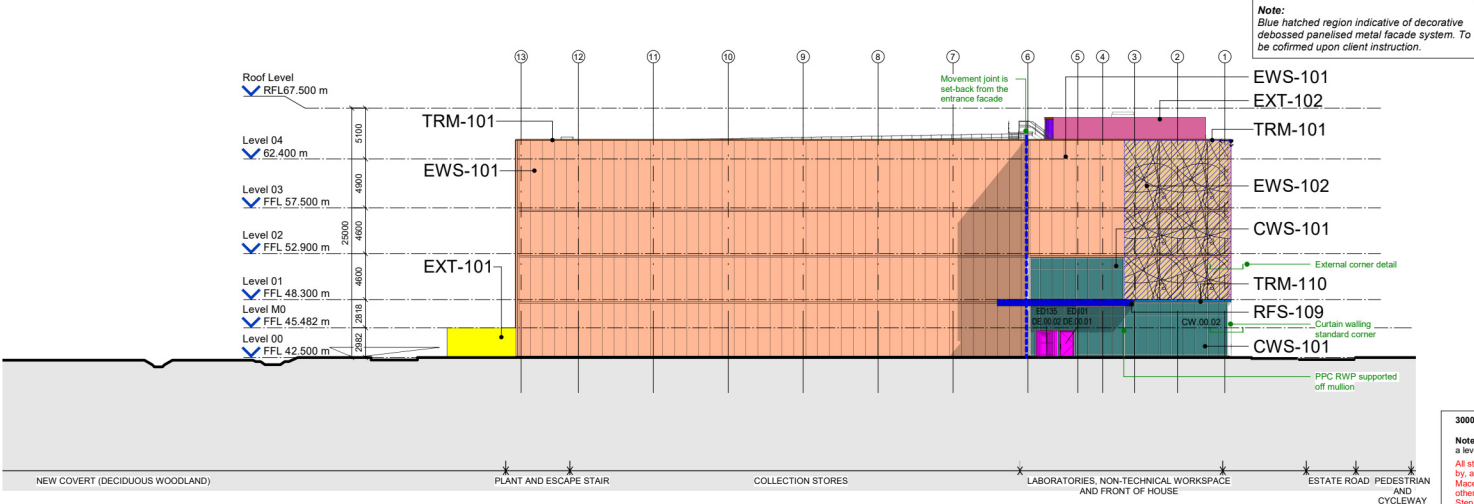
MATERIAL SCOPING ELEVATIONS

North Elevation and West Elevation

Note: The colours illustrated on the material scoping elevations are for graphic scoping purposes only.



1 Scope Elevation - West
1 : 250



2 Scope Elevation - North
1 : 250

3000 External Envelope Series

Notes: This information is issued as design intent only, with a level of detail suitable for costing purposes.

All structural connections shown are indicative and are to be designed by, and coordinated with, others.

Make WP 3200 package secondary steelwork to be designed by others. Curtainwalling mullion and transom sizes by others.

Step to base of panelised metal facade to correlate with ground level.

Fire stop being strategy to be reviewed by Fire Engineer.

Green notes refer to relevant system information to associated wall system. Subcontractor to provide detail in stage 5

Subcontractor to note: proprietary tested standard penetrations to panelised metal facade system anywhere in the scheme.

External Envelope Drawing References

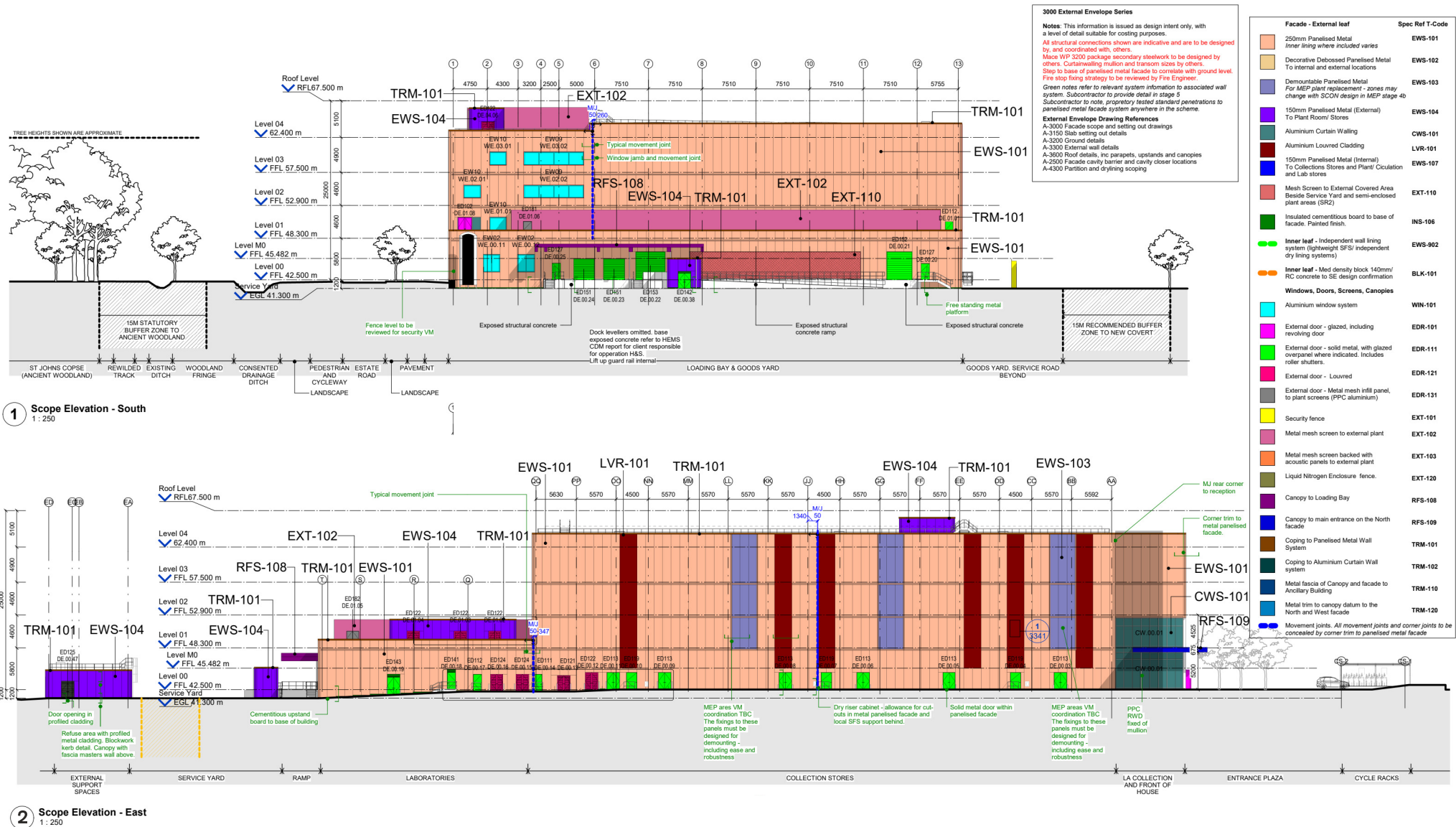
- A-3000 Facade scope and setting out drawings
- A-3100 Slab setting out details
- A-3200 Ground details
- A-3300 External wall details
- A-3600 Roof details, inc parapets, upstands and canopies
- A-2500 Facade cavity barrier and cavity closer locations
- A-4300 Partition and drying scoping

Facade - External leaf	Spec Ref T-Code
250mm Panelised Metal Inner lining where included varies	EWS-101
Decorative Debossed Panelised Metal To internal and external locations	EWS-102
Demountable Panelised Metal For MEP plant replacement - zones may change with SCON design in MEP stage 4b	EWS-103
150mm Panelised Metal (External) To Plant Room/ Stores	EWS-104
Aluminium Curtain Walling	CWS-101
Aluminium Louvered Cladding	LVR-101
150mm Panelised Metal (Internal) To Collections Stores and Plant/ Circulation and Lab stores	EWS-107
Mesh Screen to External Covered Area Beside Service Yard and semi-enclosed plant areas (SR2)	EXT-110
Insulated cementitious board to base of facade. Painted finish.	INS-106
Inner leaf - Independent wall lining system (lightweight SFS/ independent dry lining systems)	EWS-902
Inner leaf - Med density block 140mm/ RC concrete to SE design confirmation	BLX-101
Windows, Doors, Screens, Canopies	
Aluminium window system	WIN-101
External door - glazed, including revolving door	EDR-101
External door - solid metal, with glazed overpanel where indicated. Includes roller shutters.	EDR-111
External door - Louvered	EDR-121
External door - Metal mesh infill panel, to plant screens (PPC aluminium)	EDR-131
Security fence	EXT-101
Metal mesh screen to external plant	EXT-102
Metal mesh screen backed with acoustic panels to external plant	EXT-103
Liquid Nitrogen Enclosure fence.	EXT-120
Canopy to Loading Bay	RFS-108
Canopy to main entrance on the North facade	RFS-109
Coping to Panelised Metal Wall System	TRM-101
Coping to Aluminium Curtain Wall System	TRM-102
Metal fascia of Canopy and facade to Ancillary Building	TRM-110
Metal trim to canopy datum to the North and West facade	TRM-120
Movement joints. All movement joints and corner joints to be	

MATERIAL SCOPING ELEVATIONS

South Elevation and East Elevation

Note: The colours illustrated on the material scoping elevations are for graphic scoping purposes only.



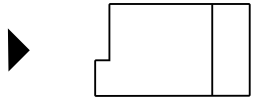
3D VIEWS

2

3D VIEWS

North Elevation

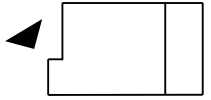
Note: Colours shown are indicative.



3D VIEWS

North East Elevation

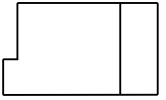
Note: Colours shown are indicative.



3D VIEWS

North West Elevation

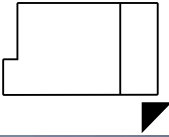
Note: Colours shown are indicative.



3D VIEWS

South West Elevation

Note: Colours shown are indicative.



KEY FACADE DETAILS

3

TRIMO FTV FACADE SYSTEM

Precedent studies of the Trimo FTV system proposed for the panelised metal facade

01_Jodrell Bank, Feilden Clegg
Bradley Studios, UK



02_Arcadia Lightwear, Vuga Sader
Architects, Slovenia



03_Meidoorn Office, Eugelink
Architectuur, Netherlands



04_Togher Modular Primary School, Meitheal Architects, Ireland



TRIMO FTV FACADE SYSTEM

Key details of the panelised metal facade system

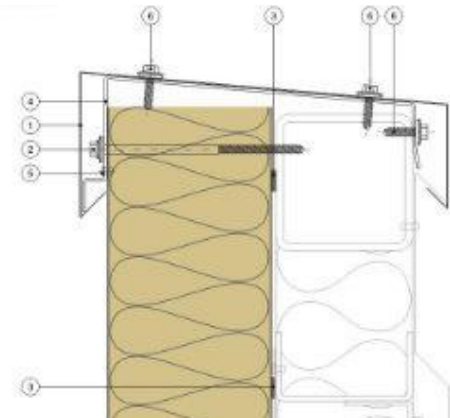
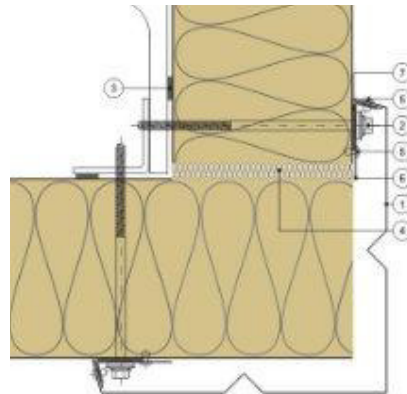
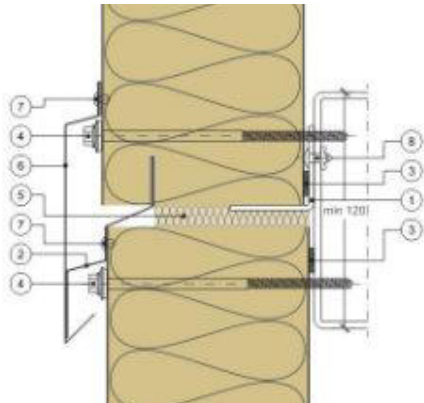
01_Horizontal flashing at slab edge connection



02_Corner flashing



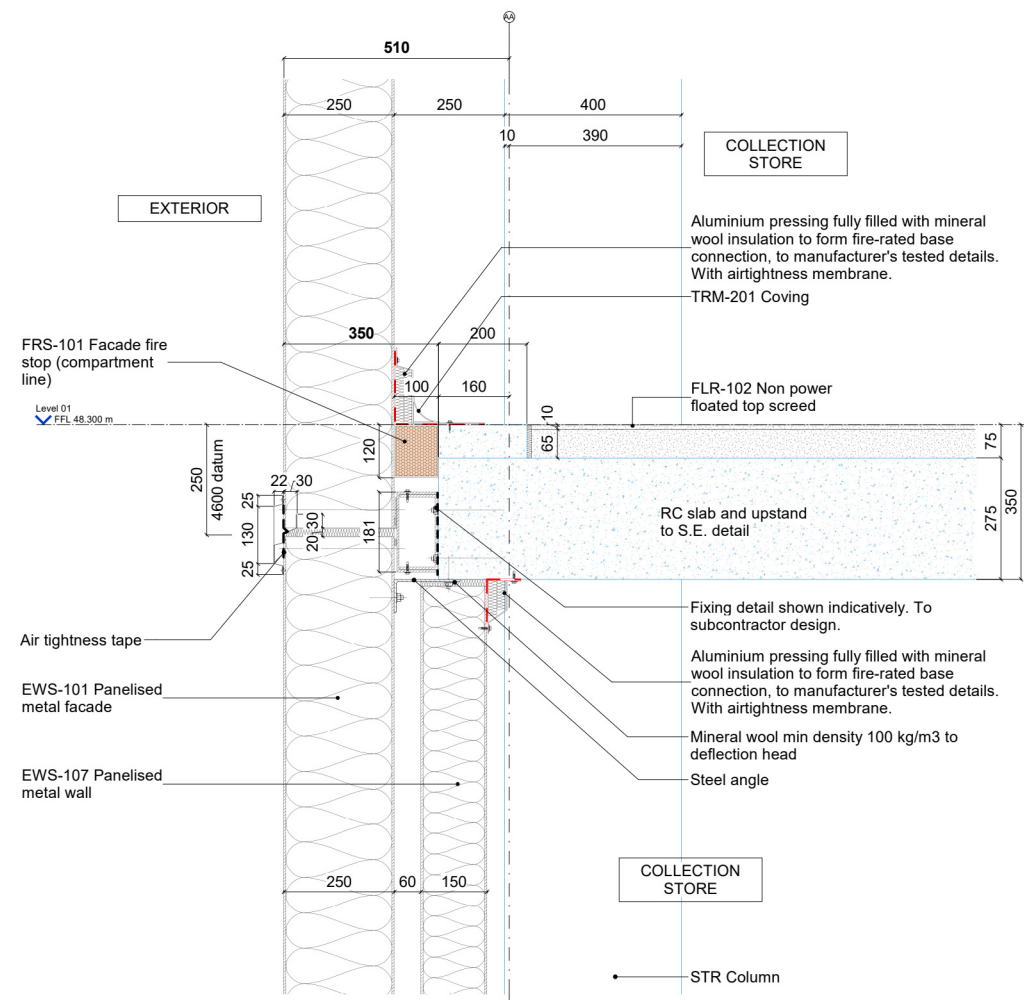
03_Parapet Coping



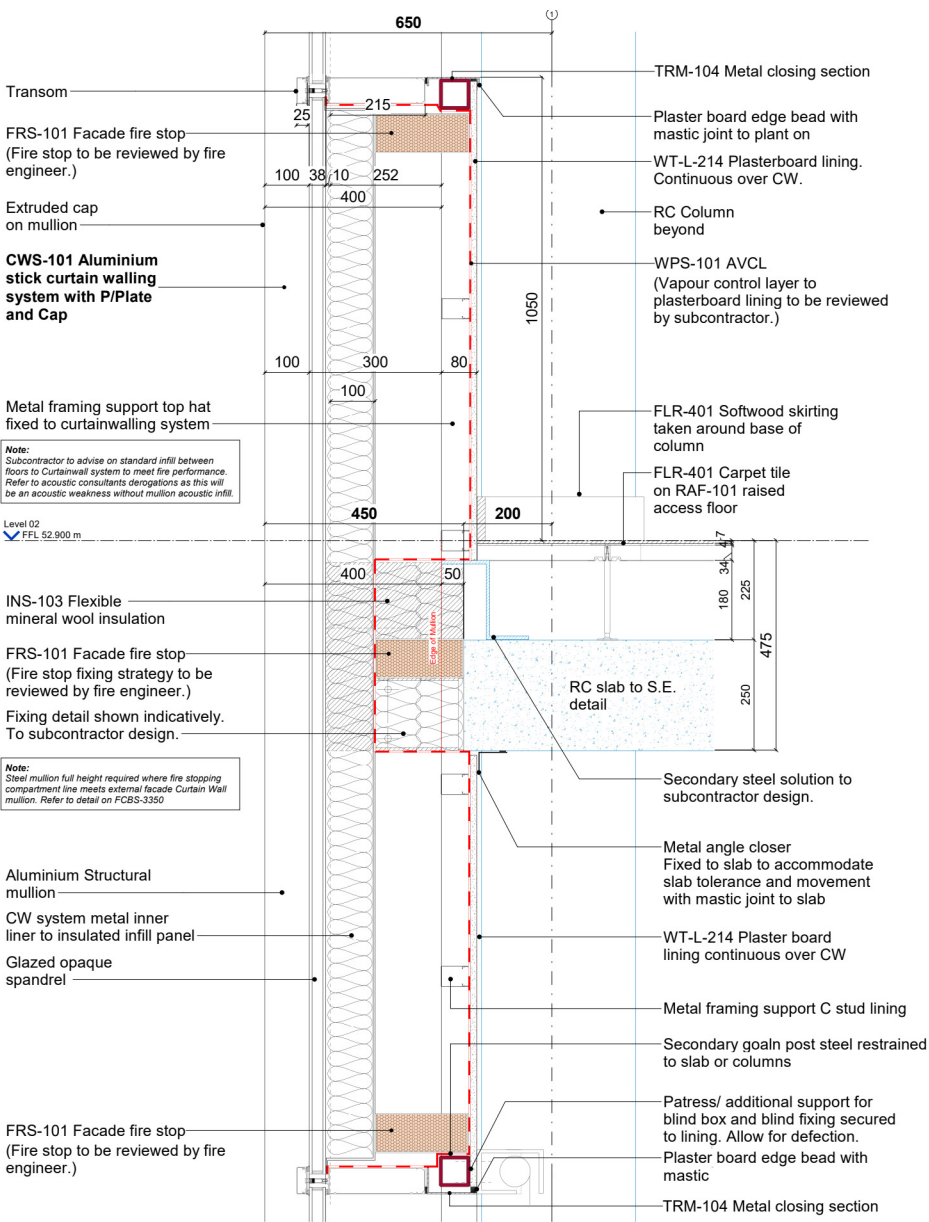
KEY FACADE DETAILS

Stage 4 Detailed Design

Note: Details are showing design intent.



01_Typical detail for panelised metal facade (Trimo FTV)

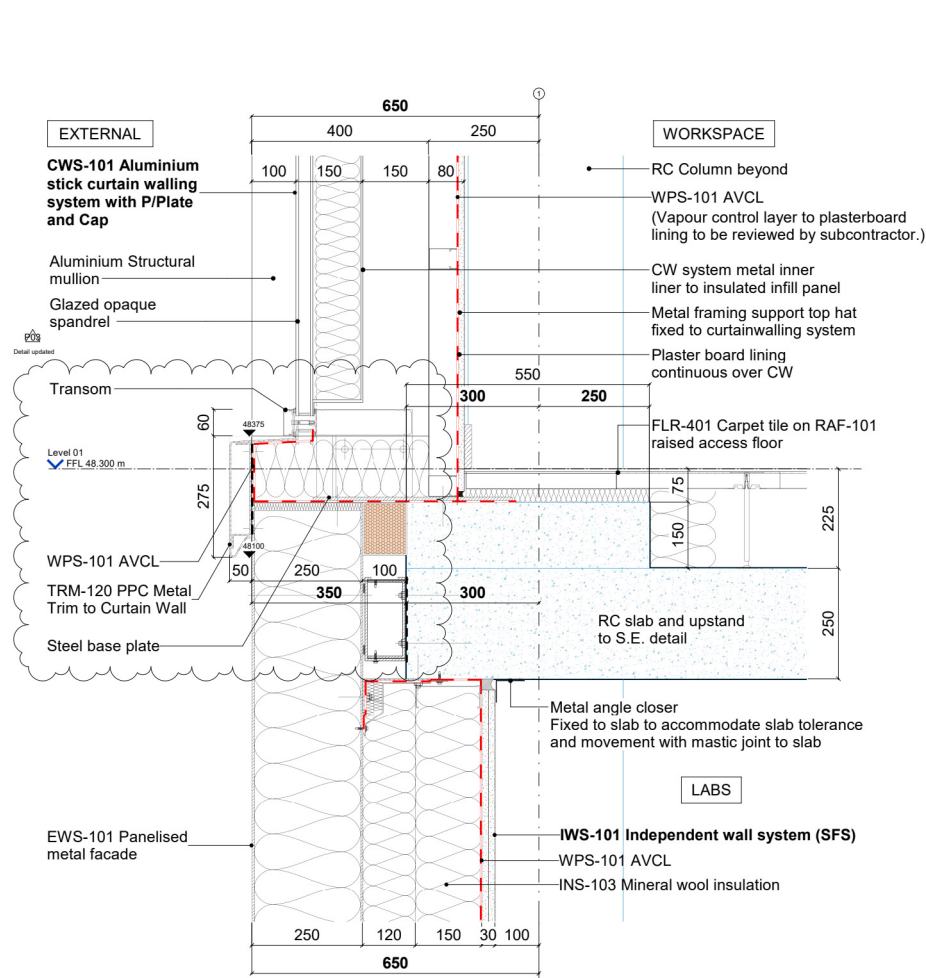


02_Typical detail for curtain walling

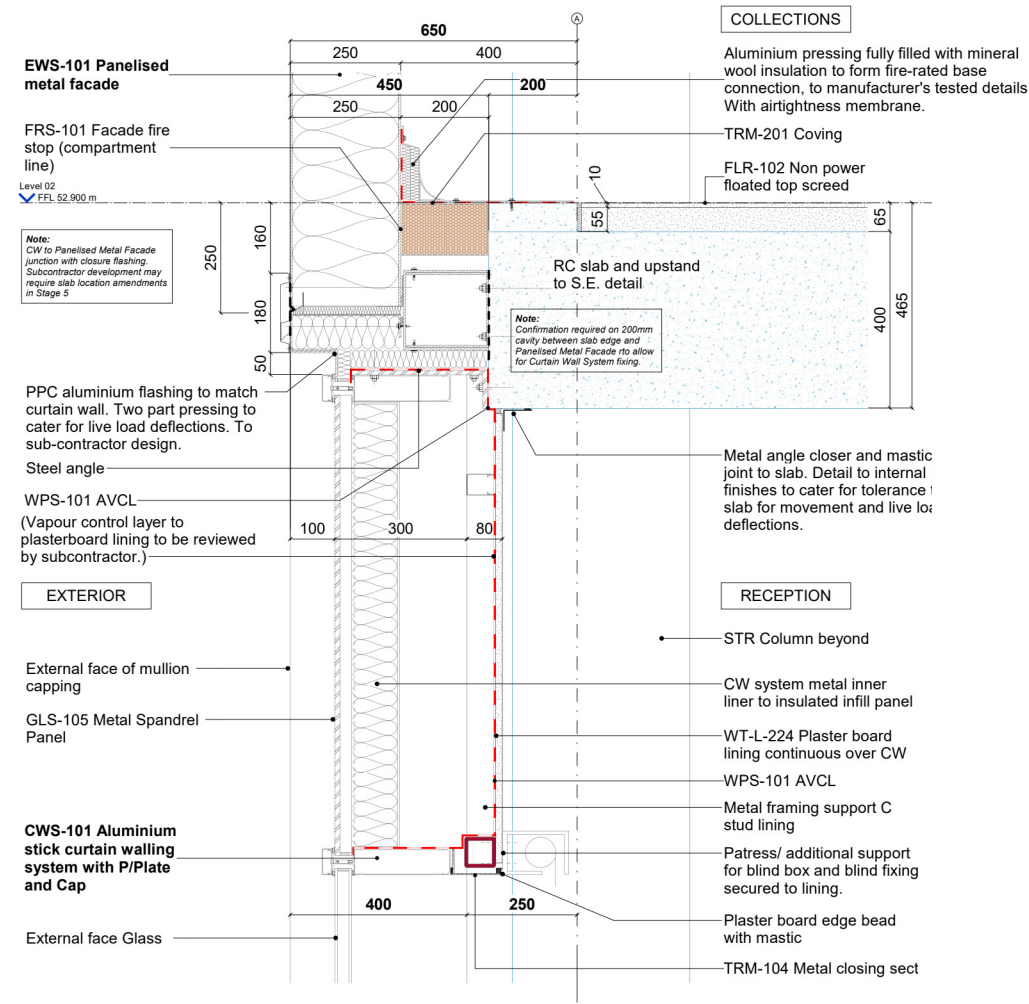
KEY FACADE DETAILS

Stage 4 Detailed Design

Note: Details are showing design intent.



03_Typical detail for L01 base of curtain walling to the West elevation

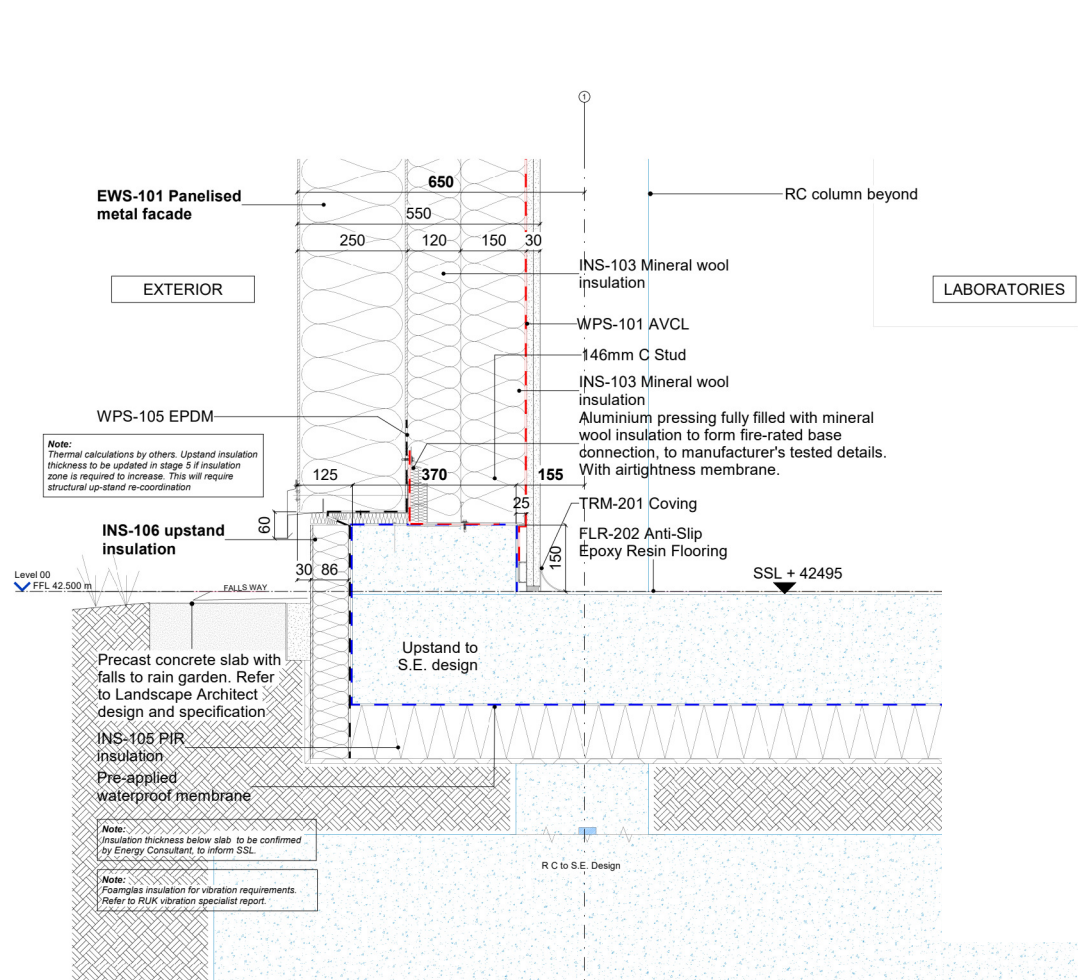


04_Typical detail for interface between curtain waling and panelised metal facade

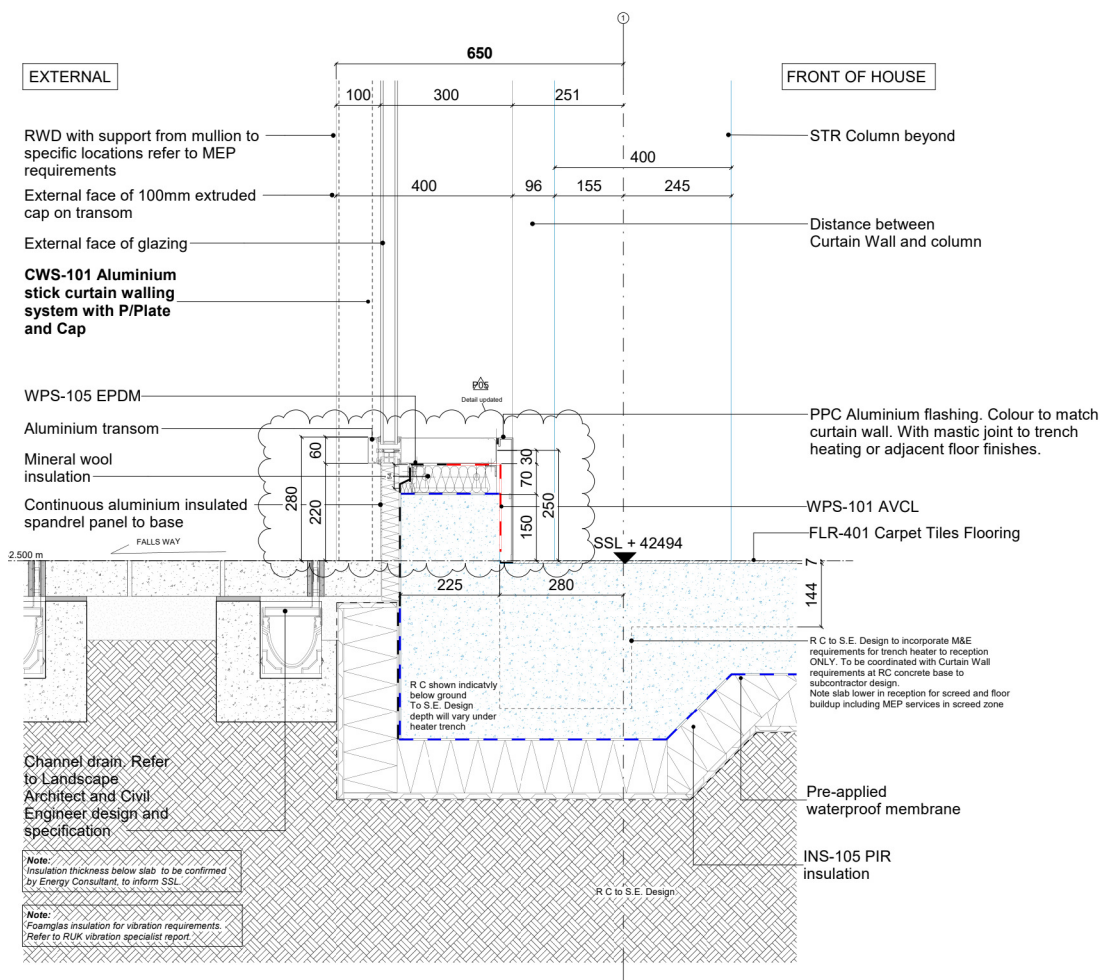
KEY FACADE DETAILS

Stage 4 Detailed Design

Note: Details are showing design intent.



05_Typical detail to base of panelised metal facade

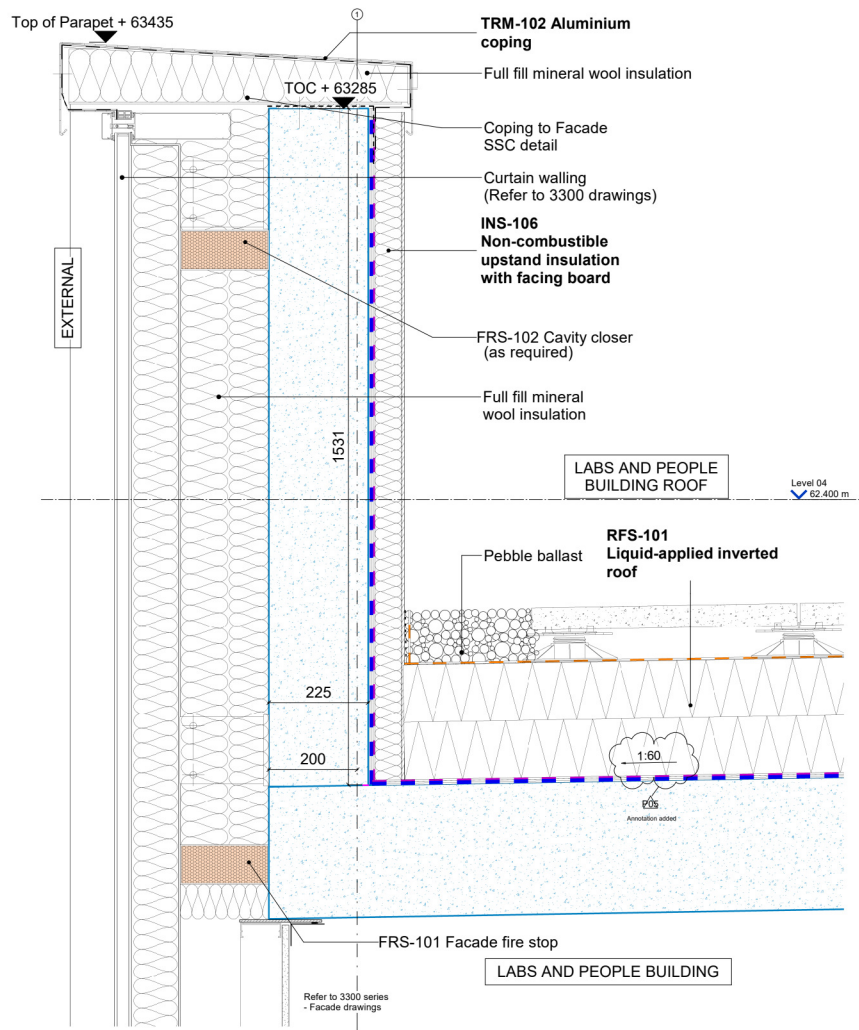


06_Typical detail to base of curtain walling system

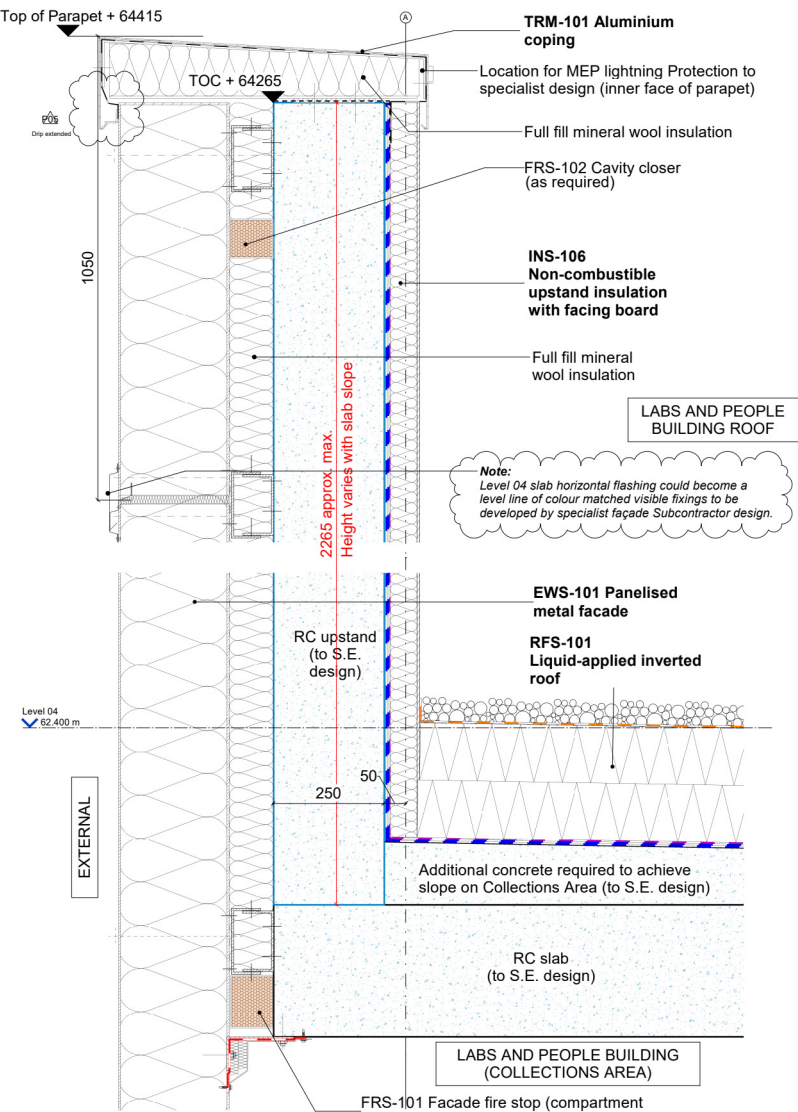
KEY FACADE DETAILS

Stage 4 Detailed Design

Note: Details are showing design intent.



07_Typical detail to parapet of curtain walling system

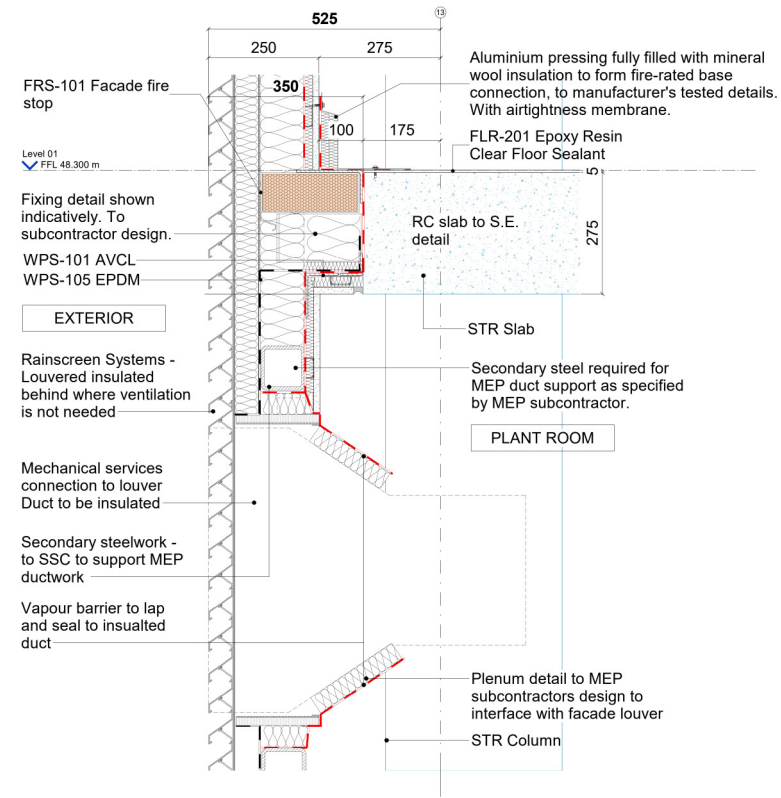


08_Typical detail to parapet of panelised metal facade

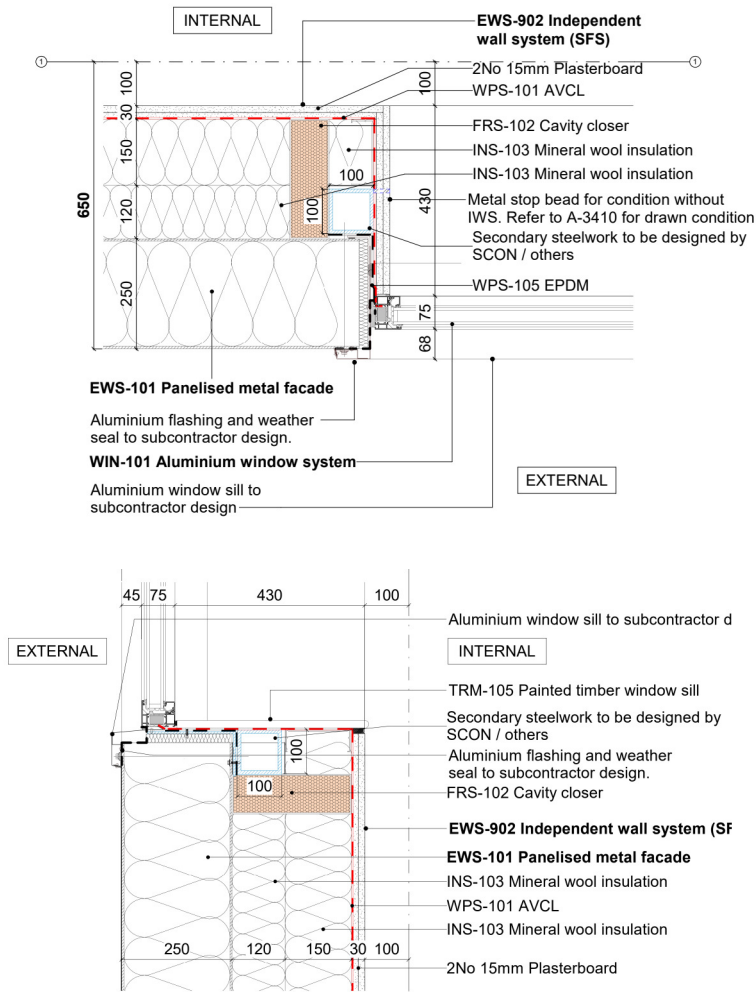
KEY FACADE DETAILS

Stage 4 Detailed Design

Note: Details are showing design intent.



09_Typical plan detail through louvre system in panelised metal facade



10_Typical plan and section detail to window in panelised metal facade

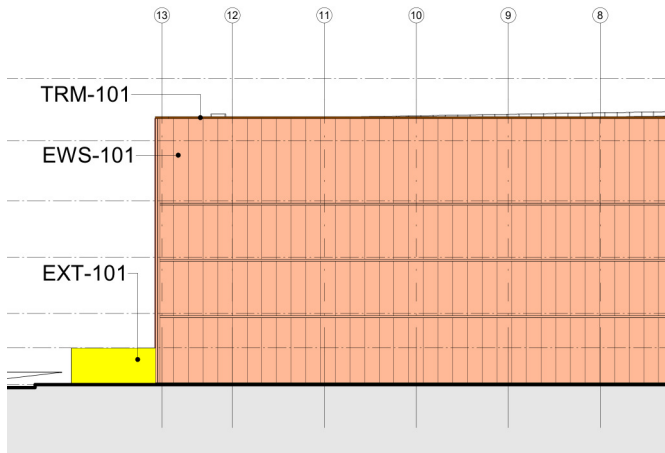
DETAILED SUMMARY OF EXTERNAL FINISHES

4

DETAILED SUMMARY OF EXTERNAL FINISHES

01 - Panelised Metal Facade

01_Scoping Elevation and key item



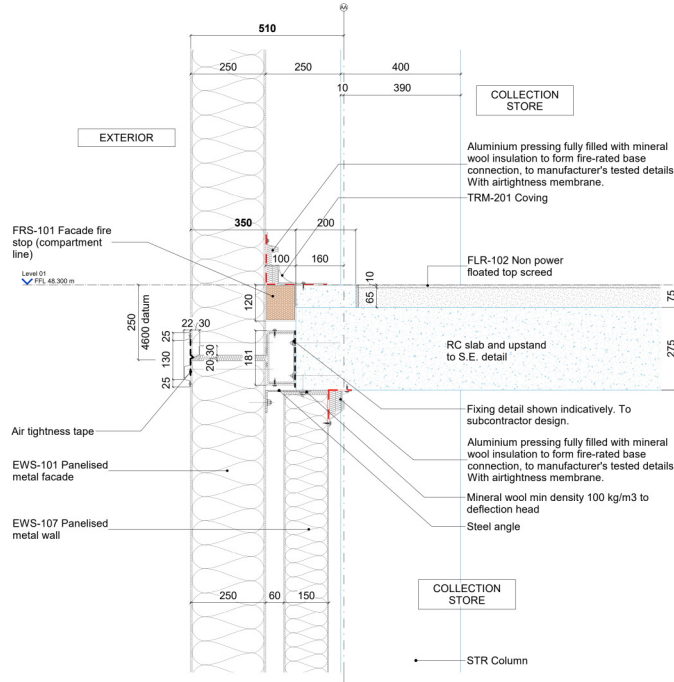
02_Spec Reference

- Panelised metal facade 250mm EWS-101
- Self-supporting metal panelised facade made up of two galvanized and pre-finished steel sheets bonded to an insulated core of non-combustible mineral wool Class A1.

Trimo sample - Typical Trimo
Sparkly Green colour



03_Typical detail for panelised metal facade (Trimo FTV)



04_Photo example of element - Trimo FTV



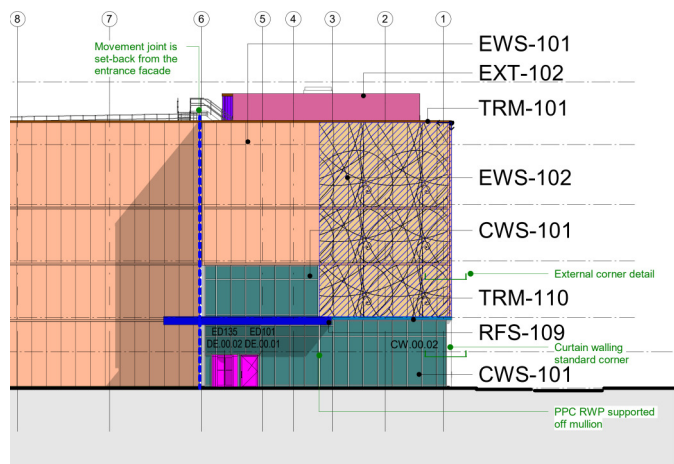
05_3D visual



DETAILED SUMMARY OF EXTERNAL FINISHES

02 - Embossed panel

01_Scoping Elevation and key item



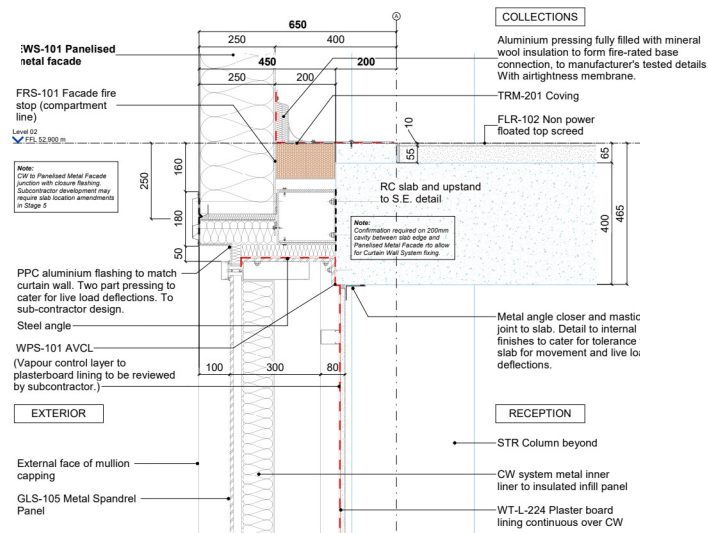
02_Spec Reference

- Embossed panelised metal facade system 250mm EWS-102

Trimo sample - Typical Trimo Sparkly Green colour



03_Typical detail for panelised metal facade (Trimo FTV)



05_3D visual



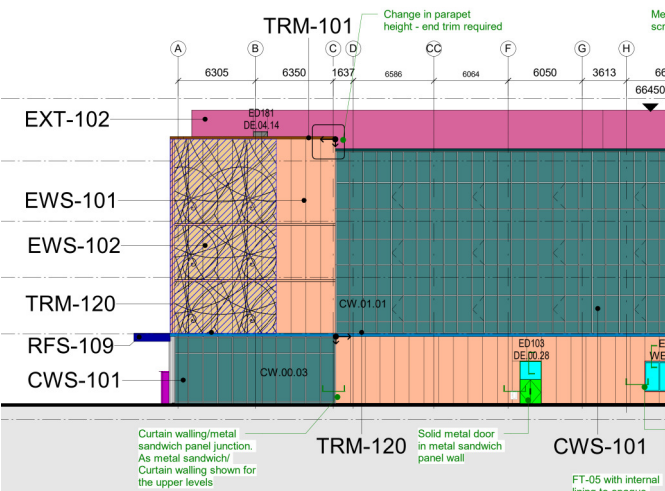
04_Photo example of element - Trimo ArtMe



DETAILED SUMMARY OF EXTERNAL FINISHES

03 - Curtain Wall

01_Scoping Elevation and key item



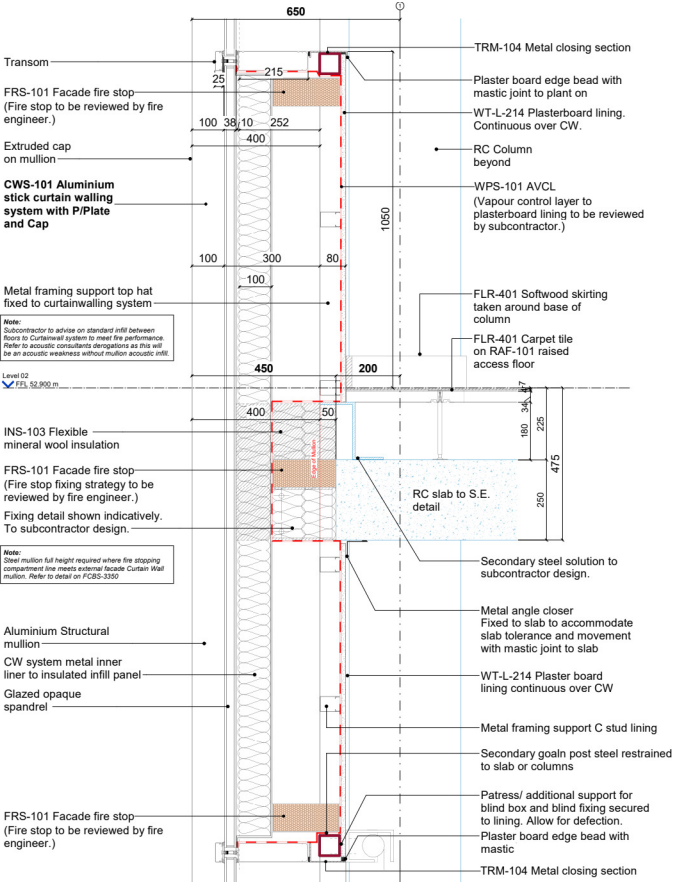
02_Spec Reference

- Curtain walling system CWS-101
- FT05 aluminium curtain walling system to the north and west elevations, system with pressure plates and caps, configured as indicated on the Design Drawings.



Metalwork sample - PPC Aluminium
Matt RAL 6003 Olive Green

03_Typical detail for curtain walling



04_Photo example of element - Reynaers Curtain Wall



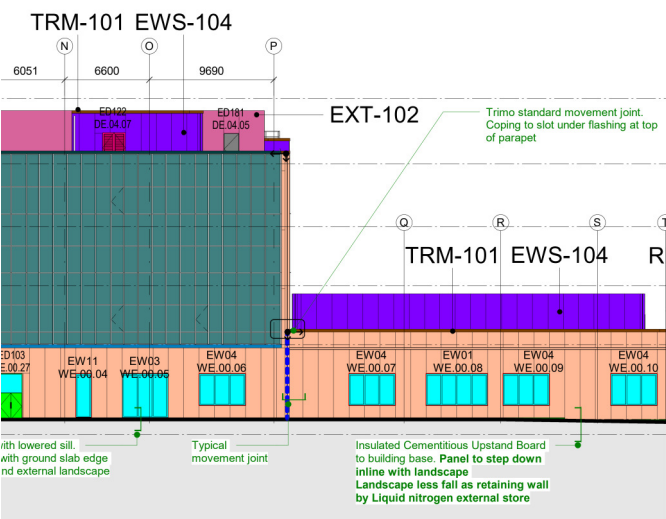
05_3D visual



DETAILED SUMMARY OF EXTERNAL FINISHES

04 - Window

01_Scoping Elevation and key item



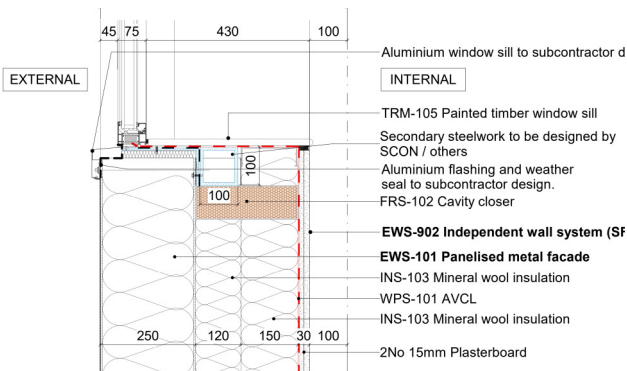
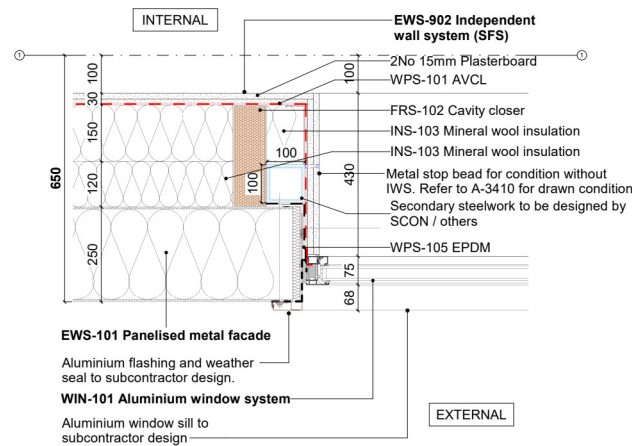
02_Spec Reference

- Aluminium window system WIN-101
- Aluminium frame sealed window system. Double glazed as per RUK MEP, facade engineer and acoustic requirements. Recessed from cladding as per elevation drawings.
- Enhanced security ratings to achieve NHM requirements.
- Note that security requirements from MiX are subject to NHM/ Mace instruction to incorporate.



Metalwork sample - PPC Aluminium
Matt RAL 6003 Olive Green

03_Typical plan and section detail to window in panelised metal facade



04_Photo example of element - Reynaers Window (RC3)



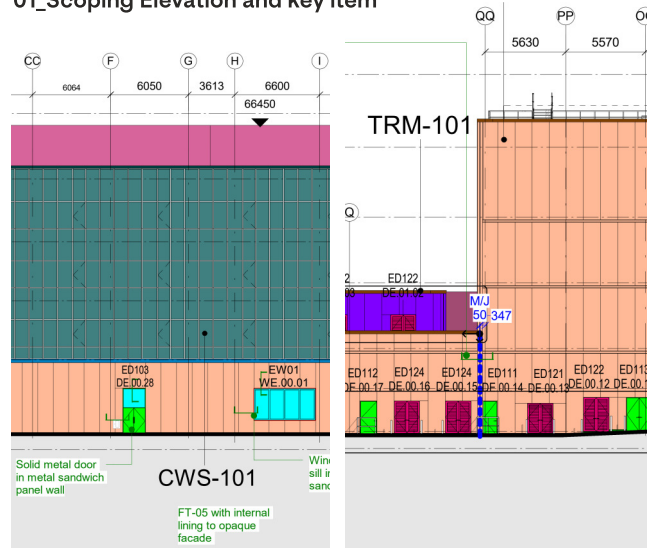
05_3D visual



DETAILED SUMMARY OF EXTERNAL FINISHES

05 - Door

01_Scoping Elevation and key item



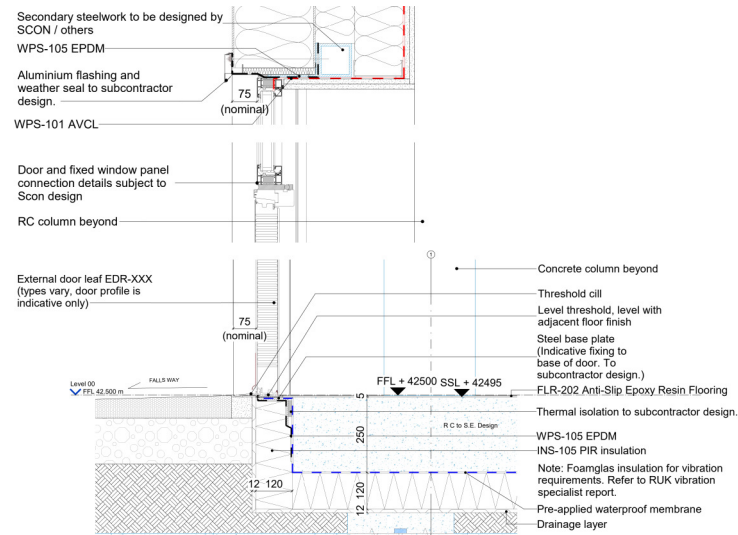
02_Spec Reference

- EDR-101 External glazed door
- EDR-111 PPC Aluminium framed external exit doors
- EDR-123 PPC Aluminium framed external doors with vision panels
- EDR-124 PPC Aluminium framed external oversized double doors with bypass door and vision panels
- EDR-141 Revolving door set systems
- EDR-151 Roller shutter



Metalwork sample - PPC Aluminium
Matt RAL 6003 Olive Green

03_Typical door threshold and door head with glazed overpanel



05_3D visual



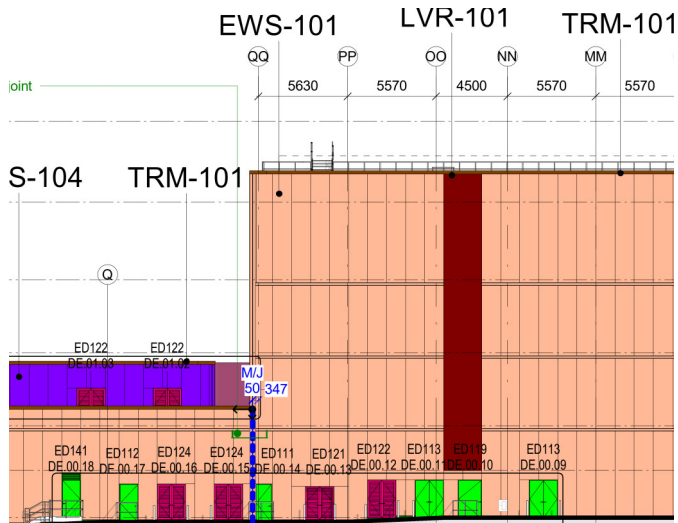
04_Photo example of element - Reynaers Doors



DETAILED SUMMARY OF EXTERNAL FINISHES

06 - Louvres

01_Scoping Elevation and key item



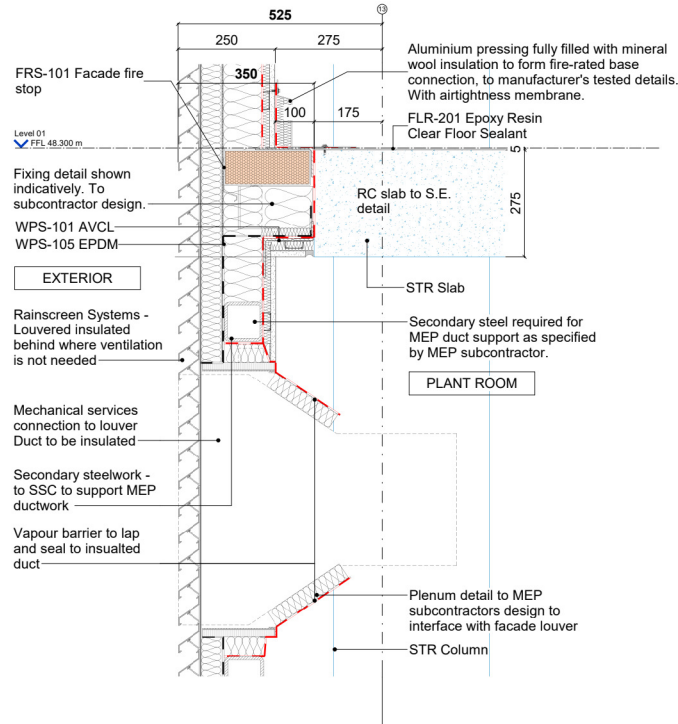
02_Spec Reference

- EDR-121 Weather tight louvred PPC aluminium framed external exit doors to plant rooms
- EDR-125 Louvred PPC steel external plant room doors to energy provider's specification
- EDR-126 Weather tight PPC aluminium framed external exit doors to plant rooms with louvred overpanel
- EDR- 127 Louvred PPC aluminium framed external exit doors to plant rooms with louvred overpanel
- LVR-101 Panellised louvred cladding



Metalwork sample - PPC Aluminium
Matt RAL 6003 Olive Green

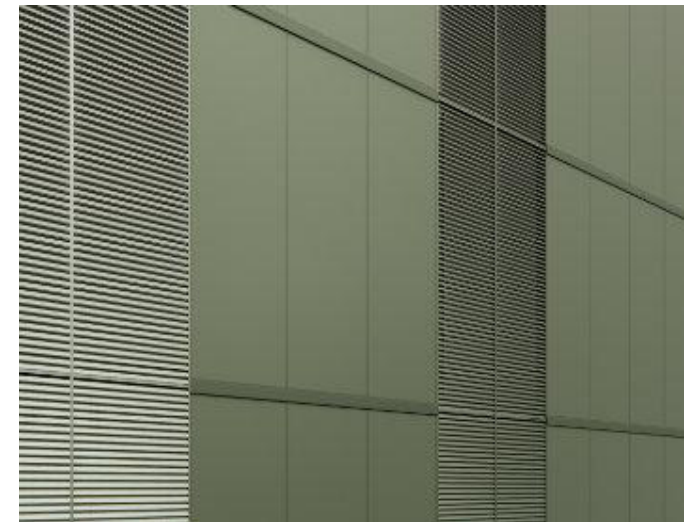
03_Typical plan detail through louvre system in panelised metal facade



04_Photo example of element - Renson Louvre



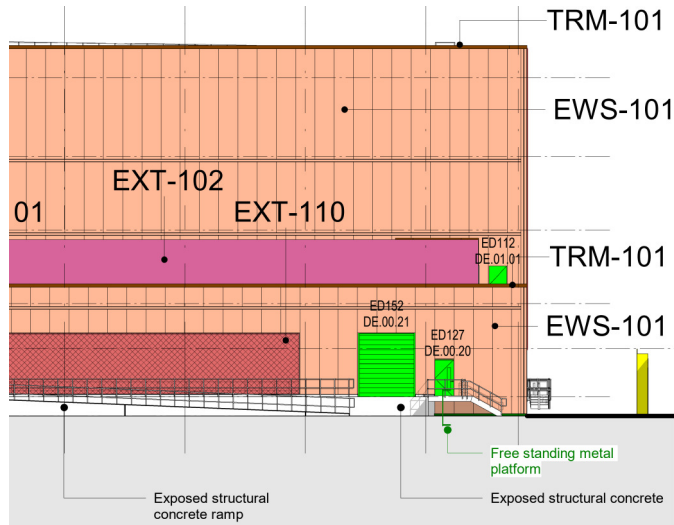
05_3D visual



DETAILED SUMMARY OF EXTERNAL FINISHES

07 - Metal Mesh

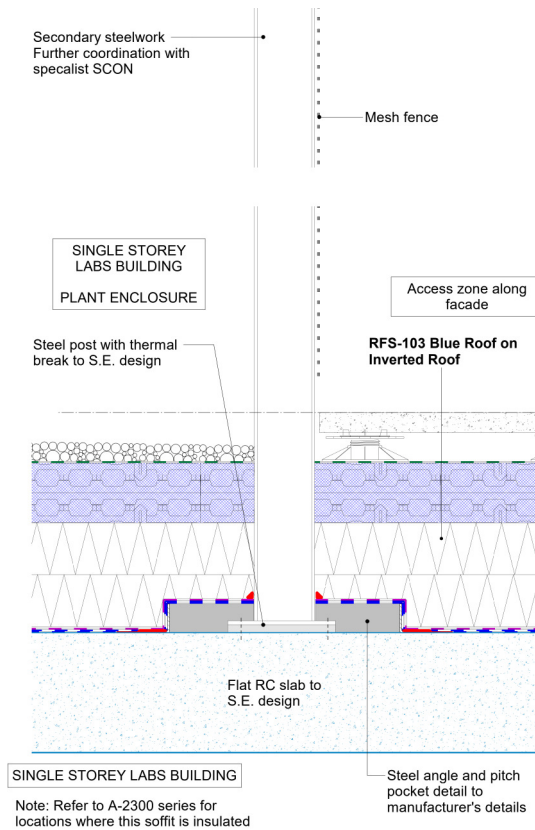
01_Scoping Elevation and key item



02_Spec Reference

- EXT-102 Mesh screen to external plant area
- EXT-103 Mesh screen with acoustic panels to external plant alongside area L01 terrace
- EXT-110 Mesh screen to external covered area along ramp in Service Yard and ancillary building
- EDR-131 Metal mesh infill panel external door to plant screens

03_Mesh screen base typical detail



04_Photo example of element - 358 mesh fence (grey colour)



