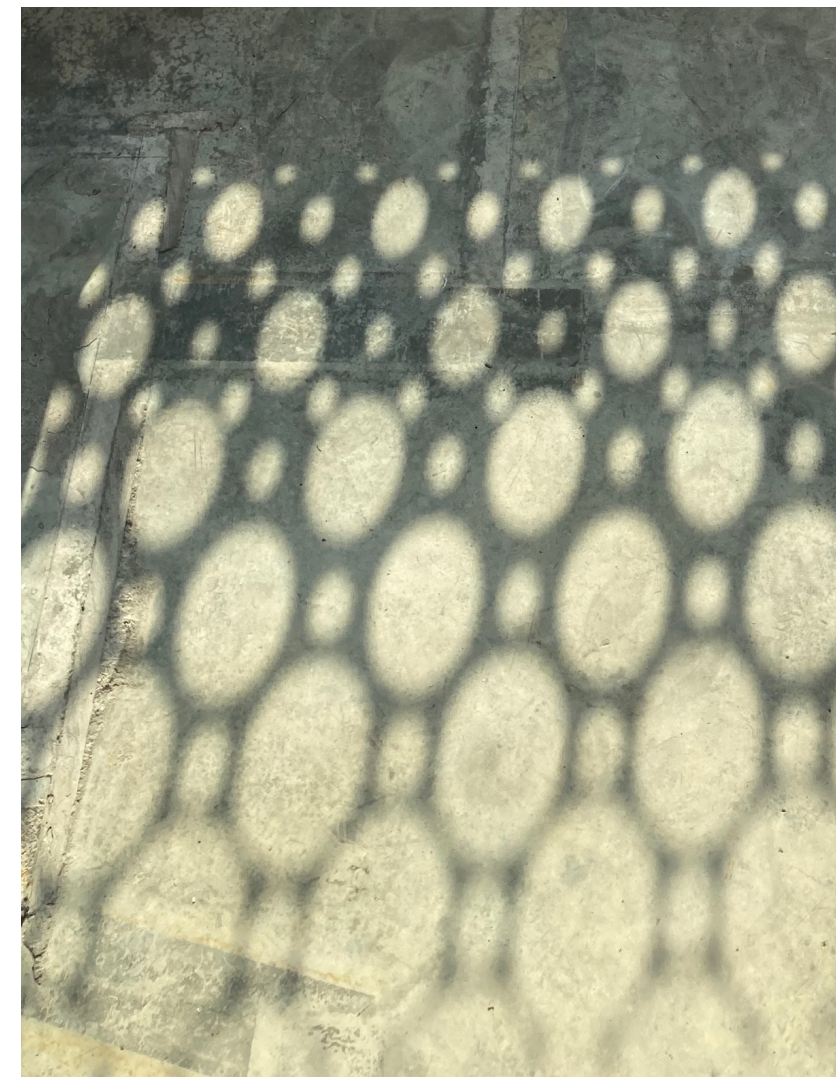




simpsonhaugh



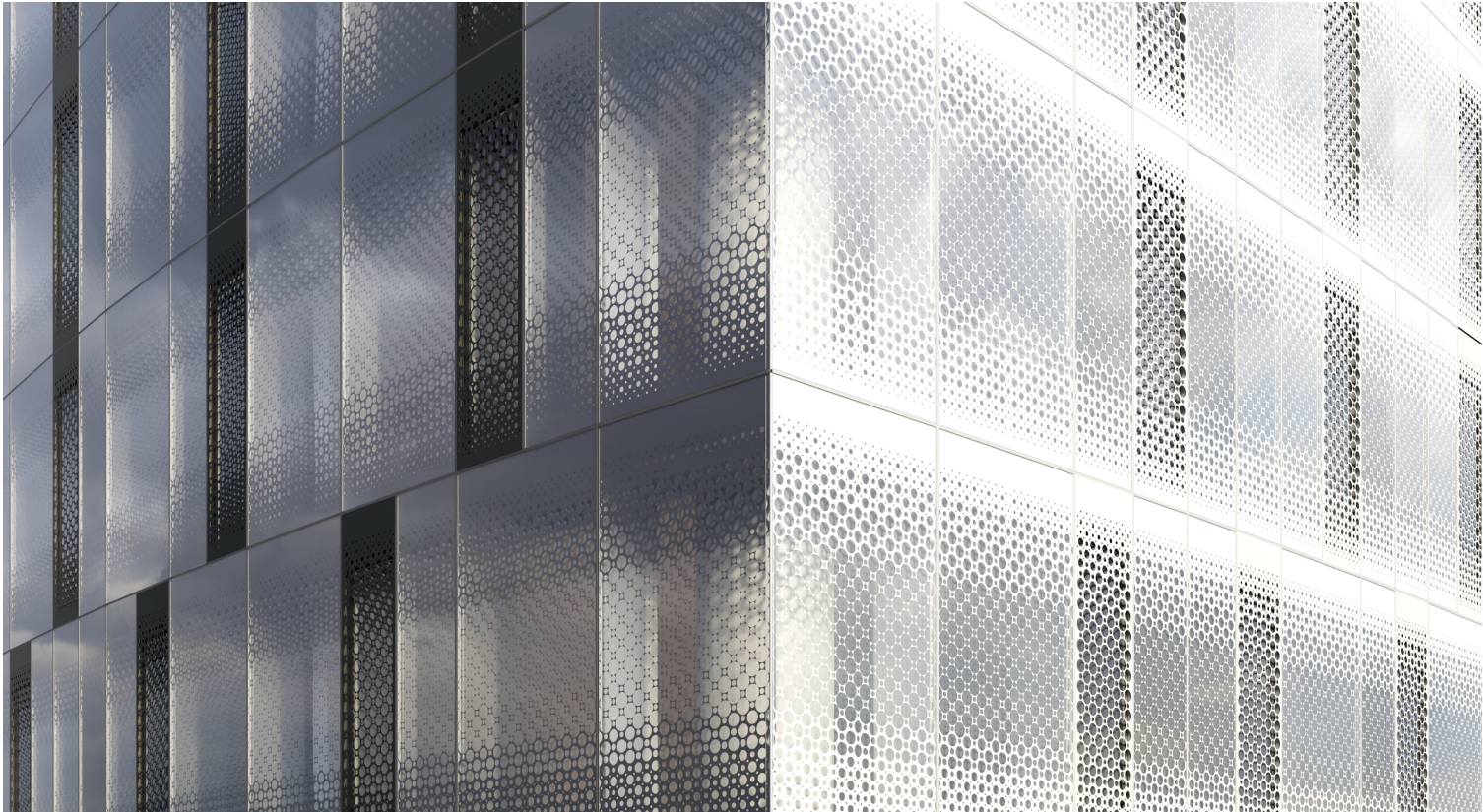
Plot 11 First Street South – Manchester

Phase A (Building D) Samples & VMU 2 Approval Summary | OCT 2022

10266-SHP-RP-PA-010



View West along Chester Street



View West along Chester Street

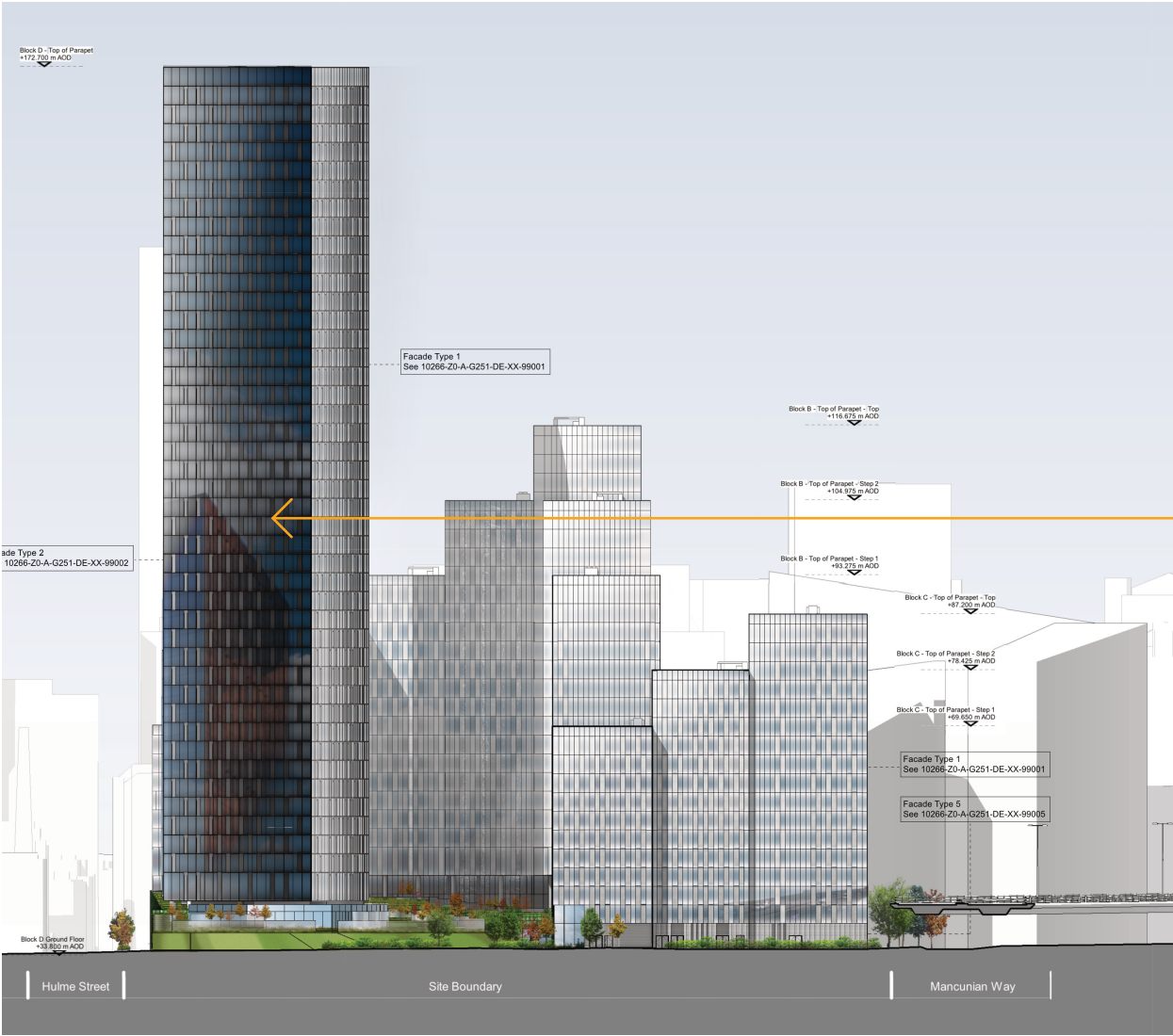


View from Building B looking across the landscape podium towards Mancunian Way

Building D - Visual Mock-Up (VMU 2)

PURPOSE OF THE REPORT

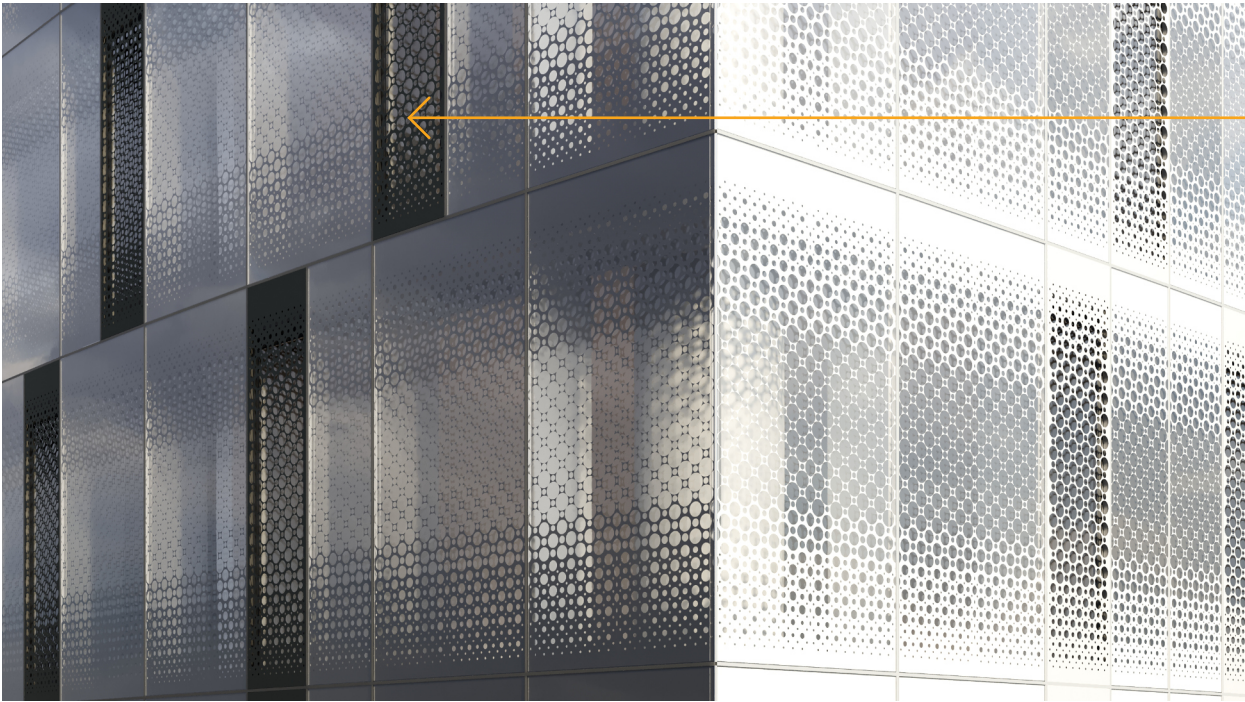
The report summarises agreements made relating to finishes and materiality of the unitised curtain walling shown in consented drawing 10266-Z0-A-G251-DE-XX-105 and 10266-Z0-A-G251-DE-XX-106 for Phase A (Building D) in consented drawing 10266-Z0-A-G100-PL-XX-99001



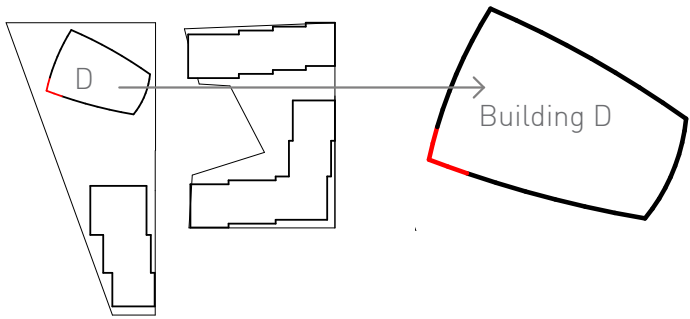
WEST ELEVATION - ALONG MEDLOCK STREET



DRAWING - 10266-Z0-A-G251-DE-XX-106



BUILDING D - DETAIL FACADE CGI



Site Plan

Sample Review 1

DATE

10 February 2022

LOCATION

On site

ATTENDEES

SimpsonHaugh (SHP) Glenn Robinson, Jessie Hu, Lee Huston

600 X 600 DOUBLE GLAZED SAMPLES

The procurement of the facade package in January allowed double glazed units to be produced by the facade contractor. Bespoke to the project, and an accurate representation of the proposed colour, frit design and configuration of each panel on the scheme, it allowed the design team to accurately appraise and refine proposals.

WEST FACADE - BUILDING D

Additional sample colours of the frit were requested as the current specification did not match the proposed blue/grey anodising. Colours requested included RAL7037/7031

BUBBLE JET FRITTING

The proposed technology to achieve the decorative frit pattern was rejected as it resulted in light bleed through and a white halo around the openings.

The facade sub-contractor proposed silk screen technology was used to achieve a better quality finish



Vision Panel (Lower) - RAL 9010

Vision Panel (Upper) - RAL 9010

Rapid Vent - NECE Natural Anodised



Rapid Vent (West Facade Building D) - NECE Dark Blue/Grey



Dark Blue Grey Fritting / Bubble Jet Frit

Sample Review 2

DATE

29 June 2022

LOCATION

On site

ATTENDEES

SimpsonHaugh (SHP)

Ian Simpson, Rachel Haugh, Matthew Ayres , Glenn Robinson

Downing Construction Limited (DCL)

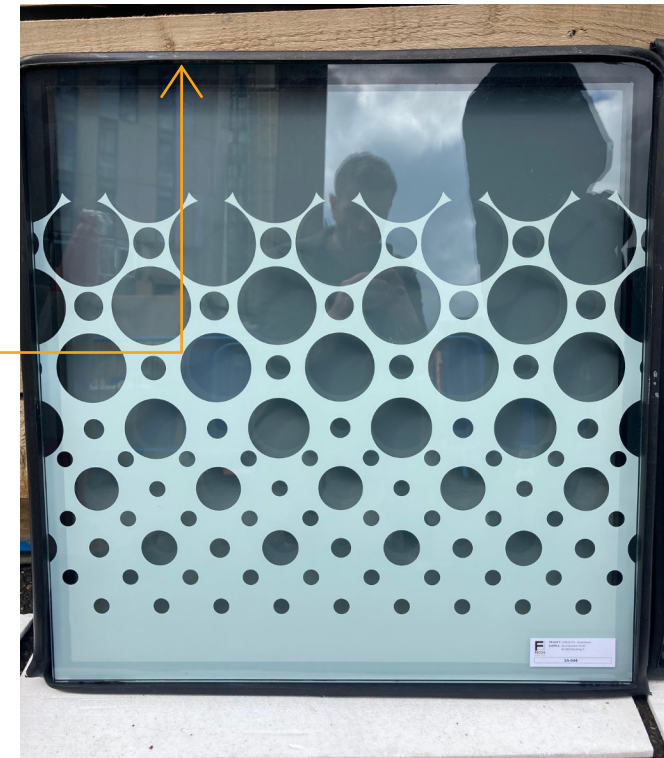
Richard Barchha, Steve Stratton, Barry Landrum

GASKET COLOUR

Gasket colours were explored - after input from the facade sub-contractor and on reviewing samples a black gasket was selected

600 X 600 DOUBLE GLAZED SAMPLES

Through design development of frit technology and glass composition, Focchi produced sample panels for each instance to allow the manufacture of the full sized units for the VMU (Visual Mock-up).



Spandrel Panel - RAL 9010 face 2 / RAL 7037 face 4



Vision Panel - RAL 9010 face 2



Spandrel Panel - RAL 7031 face 2 / RAL 7037 face 4



Vision Panel - RAL 7031 face 2

Visual Mock-up Review

DATE

12 October 2022

LOCATION

Focchi Factory, Italy

ATTENDEES

SimpsonHaugh (SHP)

Matthew Ayres, Glenn Robinson

Downing Construction Limited (DCL)

Richard Barccha

Wintech (Wtech)

James Emery

Focchi (FOC)

Paolo Ermeti, Steve Nacson, Seb Bertozzi



VISUAL MOCK UP - BUILDING D
Photographed 12.10.2022

Visual Mock-up Review

DATE

19 October 2022

LOCATION

Focchi Factory, Italy (Meeting held remotely via Google Meet)

ATTENDEES

SimpsonHaugh (SHP)	Glenn Robinson, Jessie Hu
Focchi (FOC)	Seb Bertozzi, Michele Rossoni
Downing Property Services (DPS)	George Tyson
Manchester City Council (MCC)	David Roscoe, Angela Leckie



VISUAL MOCK UP - BUILDING D
Photographed 12.10.2022

HORIZONTAL BANDING

The VMU shows how the horizontal banding will be read in certain lighting conditions and from certain angles.

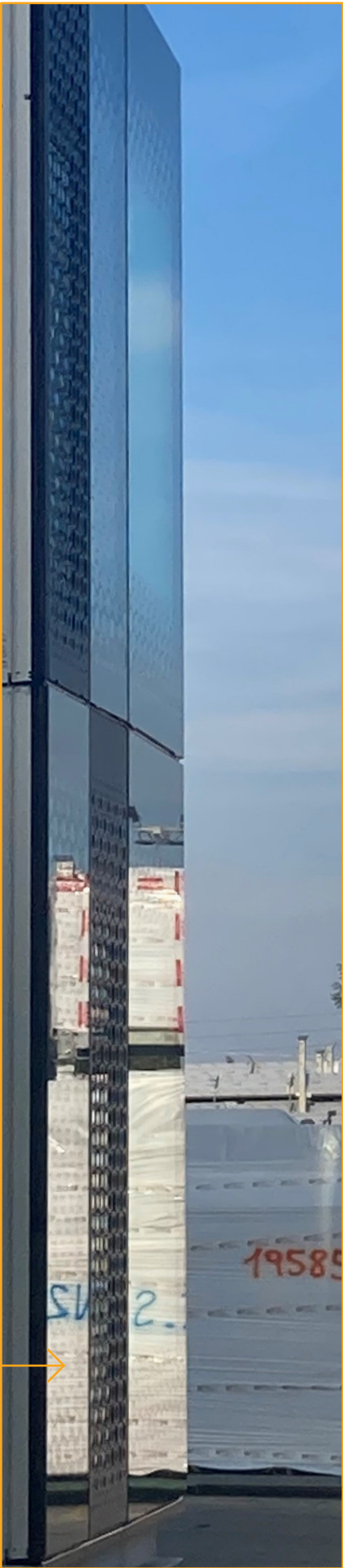


PLANAR SURFACE

The VMU shows how the building facades will read as a planar surface in certain lighting conditions and from certain angles. The light and reflections dissolve the frit and the viewer will read the glass and metal surface rather than the decorative frit.

REFLECTIONS

Reflections across the glass breakdown the facade modules and the facade is read as a planar surface.

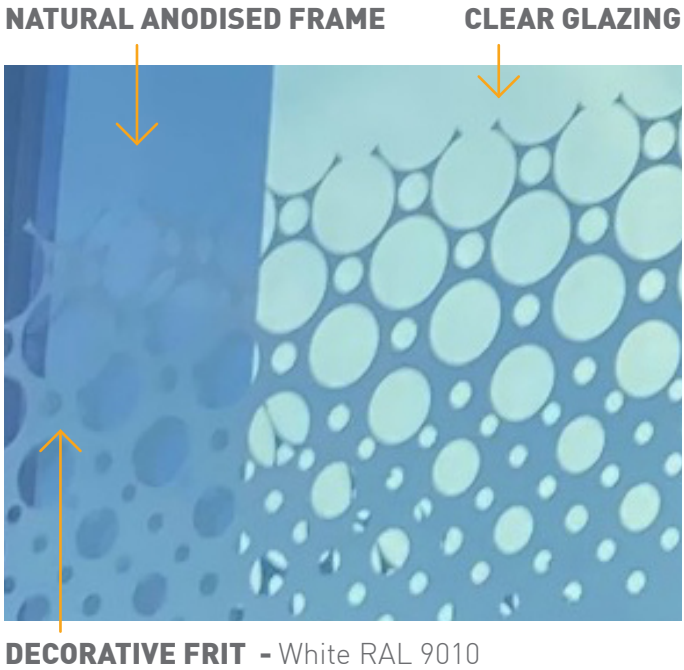




VISION PANEL UNIT (LIGHT)

The vision panel consists of one layer of frit applied to face two of the glass.

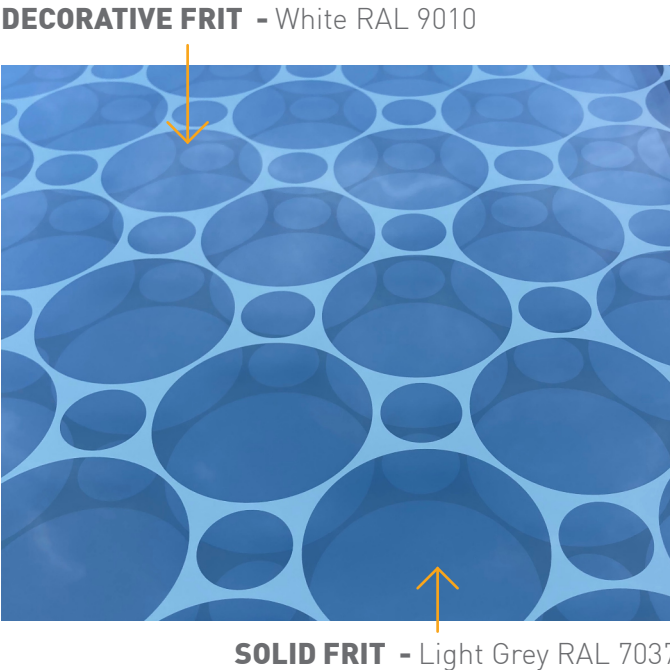
The decorative white frit is RAL 9010. The unitised frame behind is the NECE natural anodised frame. All gasket joints are black.



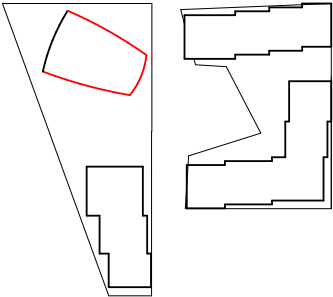
SPANDREL PANEL UNIT (LIGHT)

The spandrel panel consists of two types of frit. The decorative frit is applied to face two of the glass and is RAL 9010.

Through technical discussion RAL 7037 is applied to face 4 of the double glazed unit. This creates the appearance of a layered facade with shadows of the frit being cast on to the face 4 panel of glass.



Visual Mock Up 2

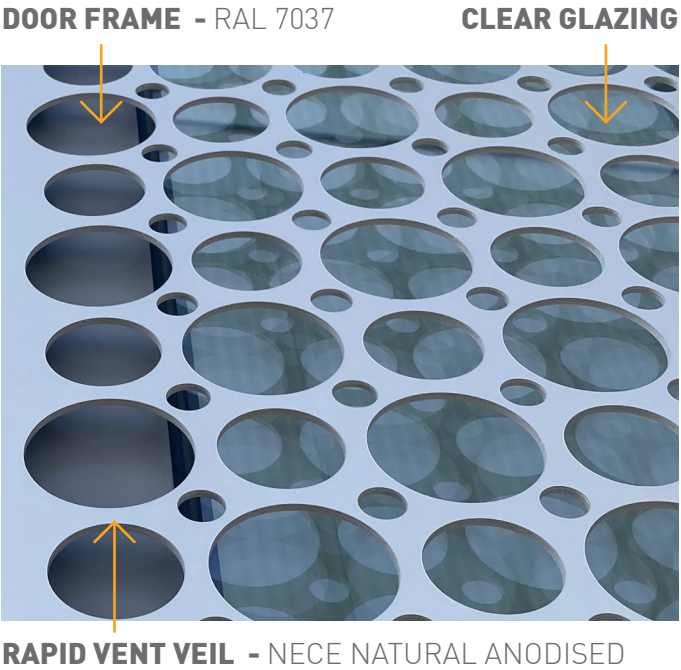




RAPID VENT PANEL (LOWER)

A perforated NECE natural anodised rapid vent veil is designed to maintain the horizontal banding.

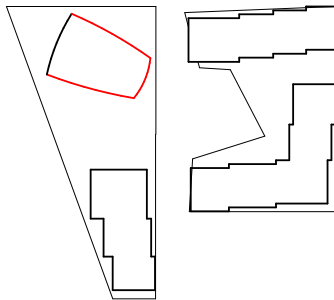
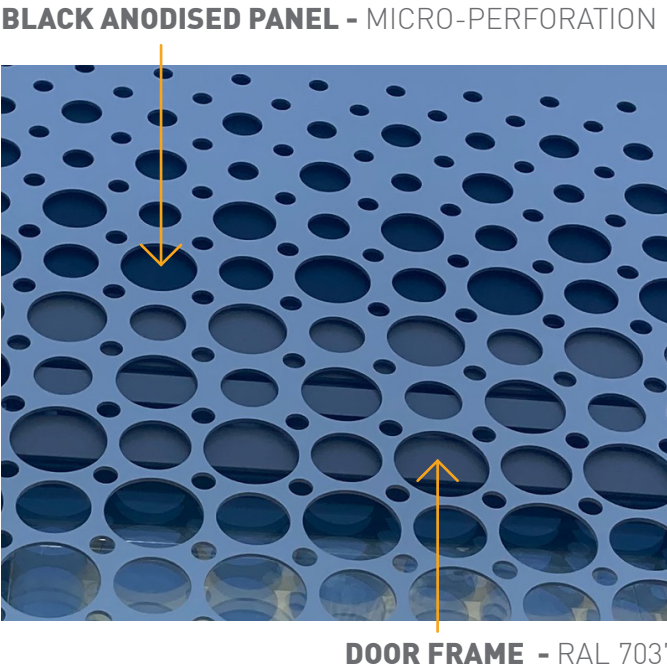
The door behind is clear glazed allowing more natural light internally and creates a contrast to the metal panel.



RAPID VENT PANEL (UPPER)

Mechanical ventilation intake/extract terminals are hidden behind a perforated black anodised panel concealing the plenum box behind which maintains a consistent colour behind the rapid vent veil.

The door frame behind is the same RAL 7037 colour as the adjacent face 4 fritting of the spandrel accentuating the horizontal banding of the design.



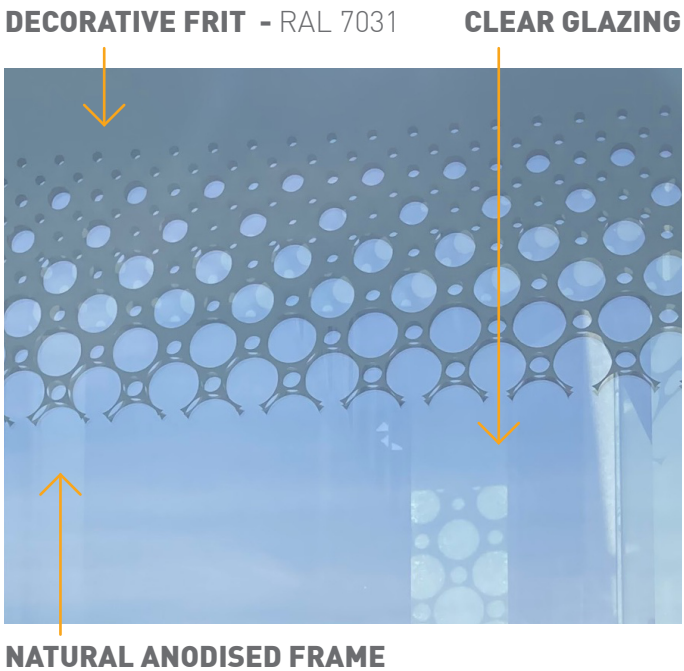
Visual Mock Up 2



VISION PANEL UNIT (DARK)

The vision panel consists of one layer of frit applied to face two of the glass.

The decorative frit is RAL 7031. The unitised frame behind is the NECE natural anodised frame. All gasket joints are black.



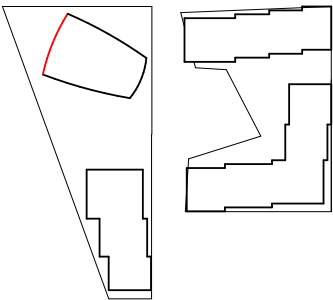
SPANDREL PANEL UNIT (DARK)

The spandrel panel consists of two types of frit. The decorative frit is applied to face two of the glass and is RAL 7031.

Through technical discussion RAL 7037 is applied to face 4 of the double glazed unit. This creates the appearance of a layered facade with shadows of the frit being cast on to the face 4 panel of glass.



Visual Mock Up 2



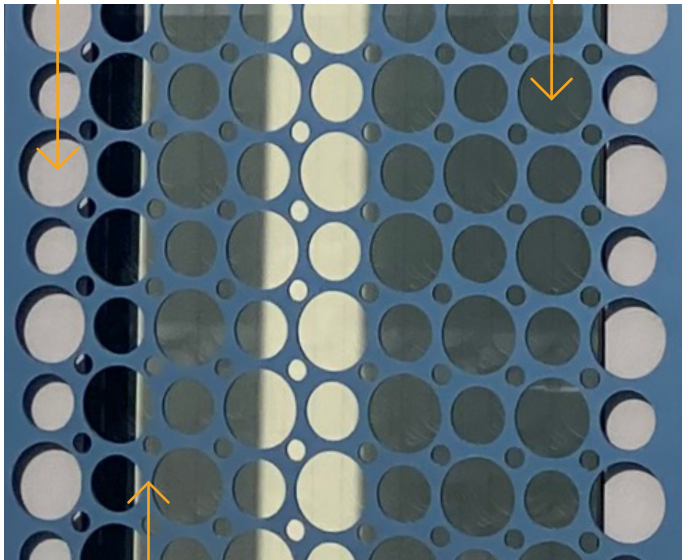


RAPID VENT PANEL (LOWER)

A perforated NECE S-C-15-B rapid vent veil is designed to maintain the horizontal banding.

The door behind is clear glazed allowing more natural light internally and creates a contrast to the metal panel.

DOOR FRAME - RAL 7037*** **CLEAR GLAZING**



RAPID VENT VEIL - NECE S-C-15-B

*** On viewing the VMU, the door frame behind the rapid vent veil it was determined the specified RAL 7037 was too light. The decision was taken to change the door frame on the West facade to RAL 7021 to match the metal over the head of the panel.



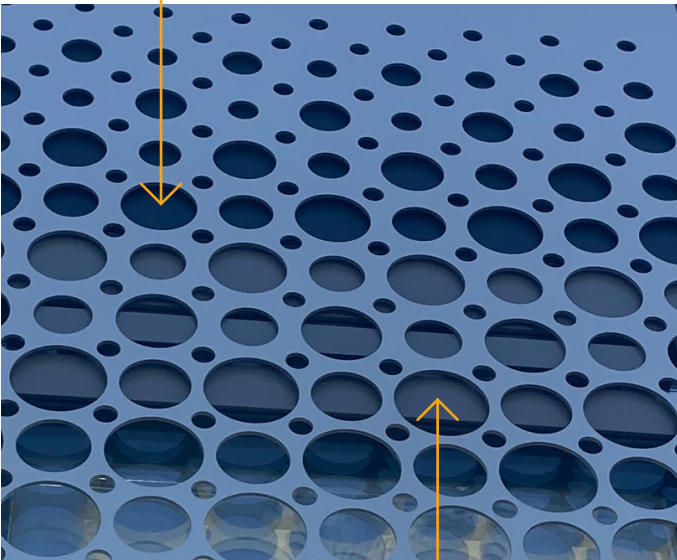
Visual Mock Up 2

RAPID VENT PANEL (UPPER)

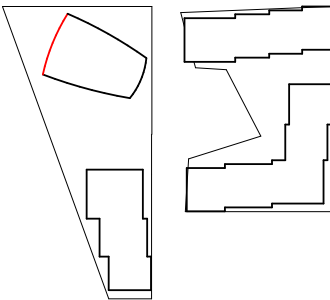
Mechanical ventilation intake/extract terminals are hidden behind a perforated black anodised panel concealing the plenum box behind which maintains a consistent colour behind the rapid vent veil.

The door frame behind is the same RAL 7037.

BLACK ANODISED PANEL - MICRO-PERFORATION



DOOR FRAME - RAL 7037***

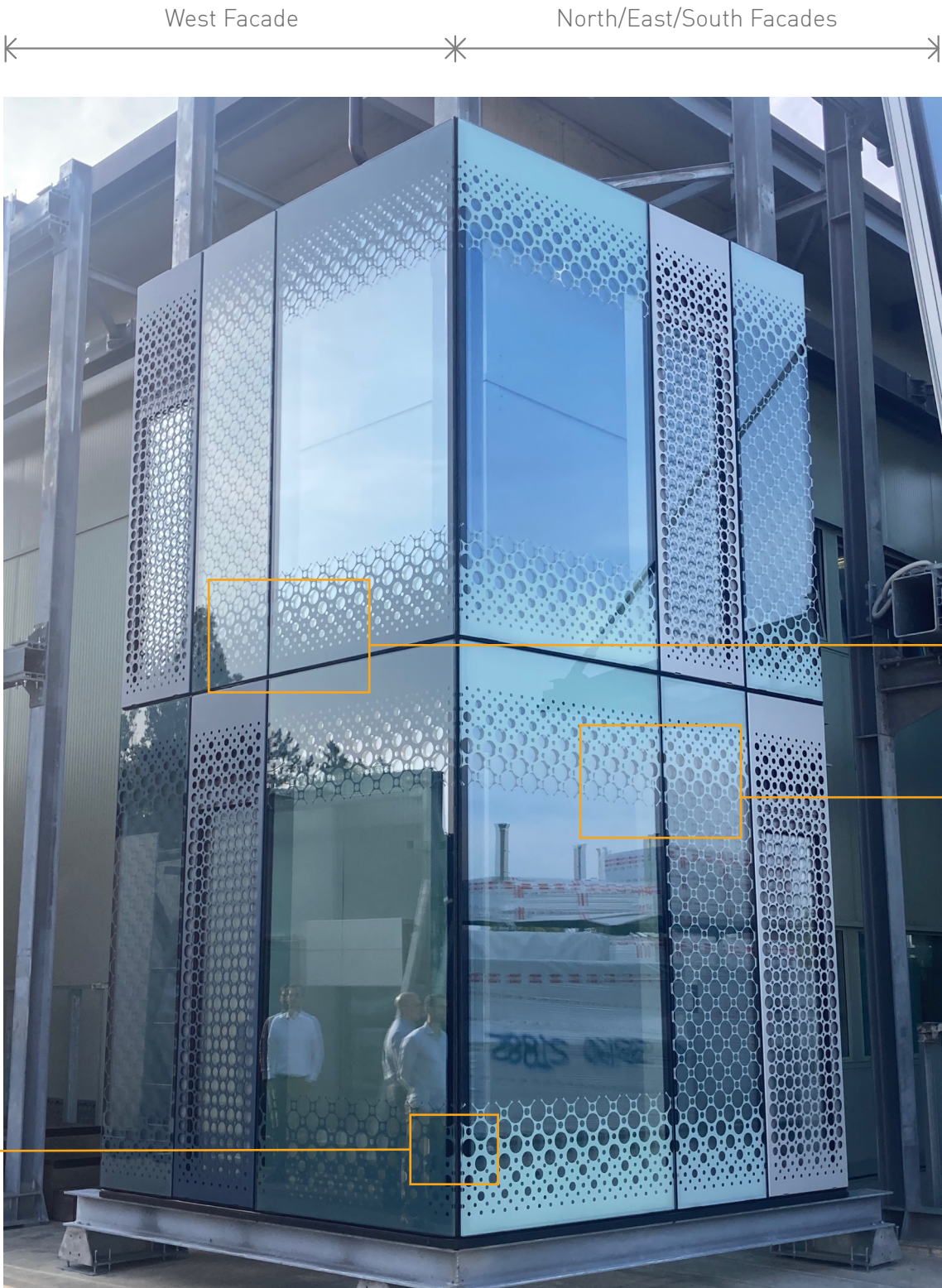


DECORATIVE PATTERN

The frit was designed to create the horizontal banding and is based on an 75mm grid which is set across an 750mm panel module. This allows for a continuous pattern across the facade interrupted only at a change in orientation



CORNER GLASS/GLASS INTERFACE



Visual Mock Up 2



SPANDREL/VISION - Blue/Grey RAL7031



VISION/SPANDREL INTERFACE - White RAL9010

AMENDMENT TO VMU DOOR FRAME COLOUR

After inspecting the VMU, it was determined that the contrast between the blue/grey anodising and light grey door frame behind was too great. The decision was made to change the colour specification to dark grey (RAL 7021) to match the black anodised panel at the head of the perforated panel.

