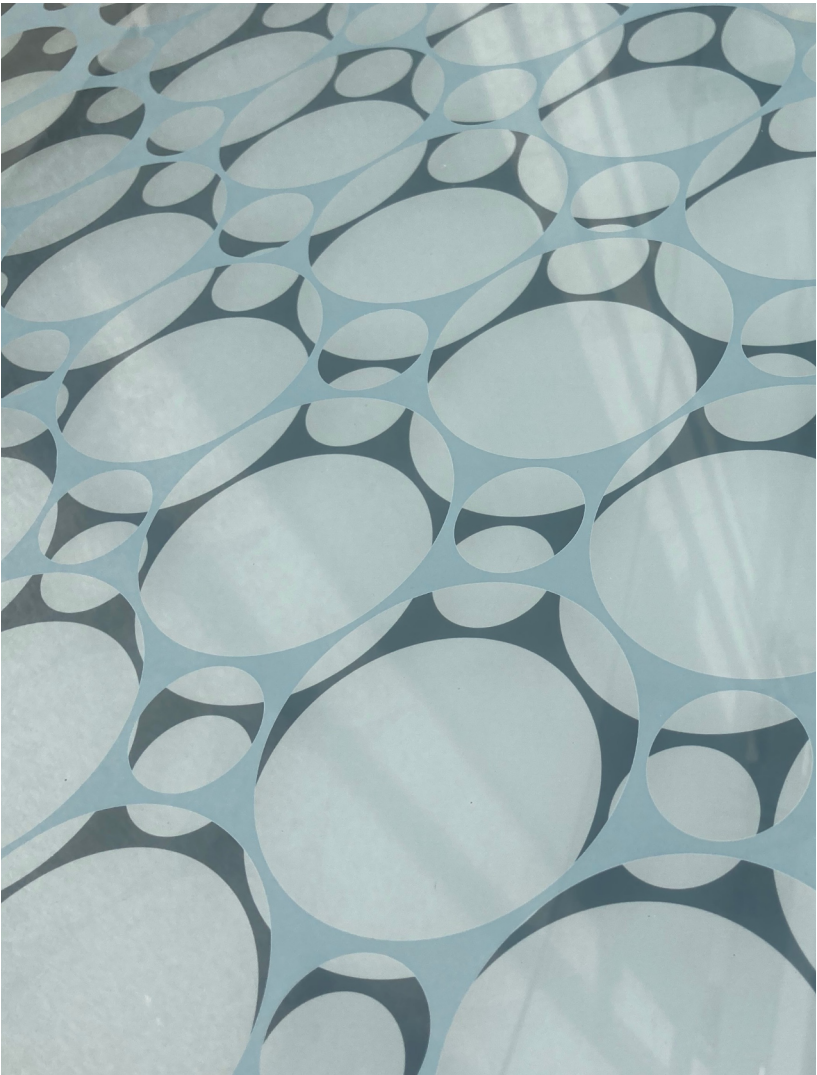




simpsonhaugh

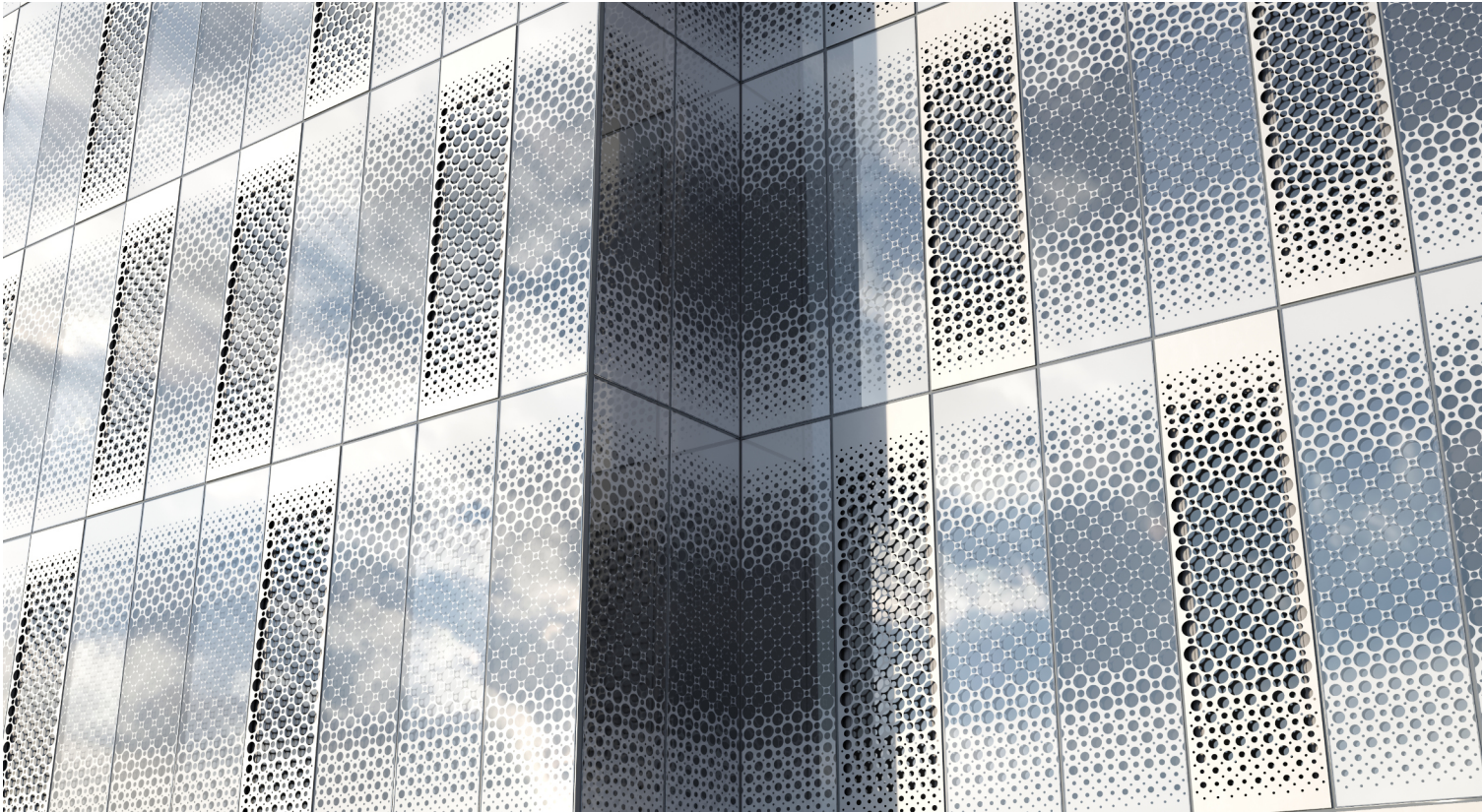


Plot 11 First Street South – Manchester

Phase B (Building A/B) Samples & VMU 1 Approval Summary | OCT 2022
10266-SHP-RP-PA-011



View West along Chester Street



Building A/B Facade Detail - CGI



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

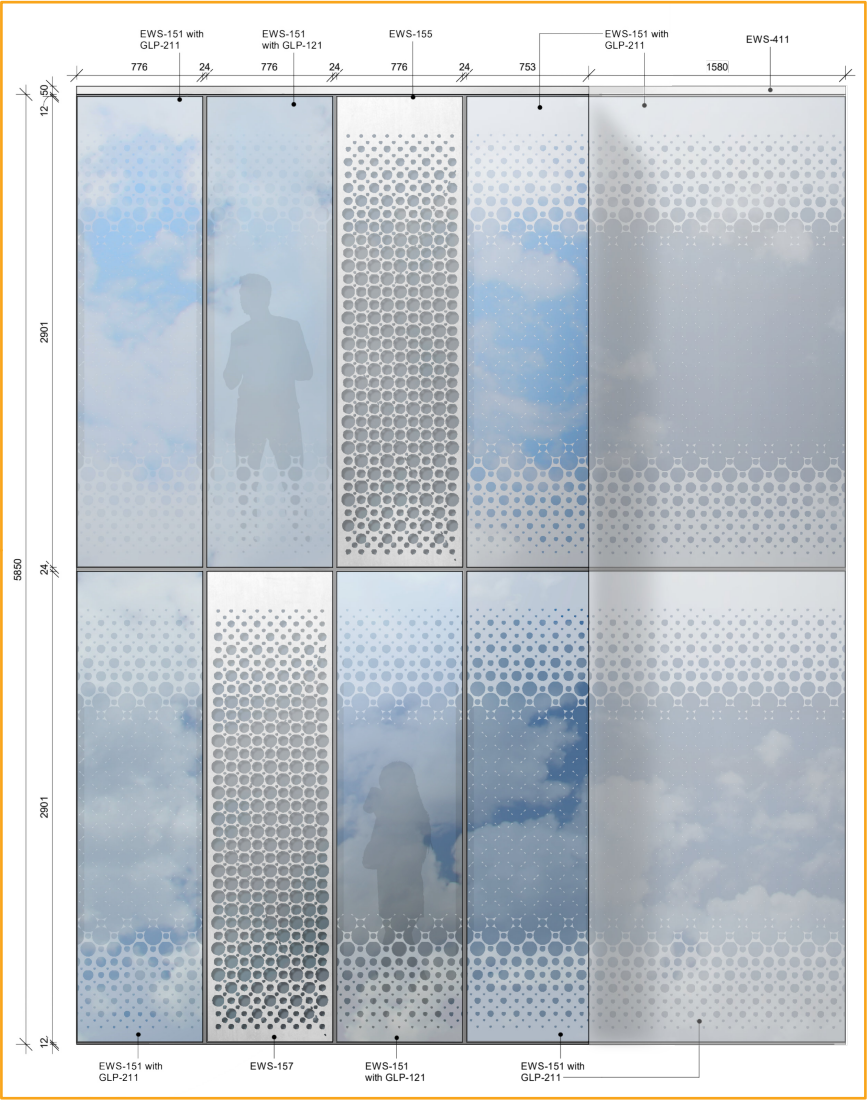
Building A & B - Visual Mock-Up (VMU 1)

PURPOSE OF THE REPORT

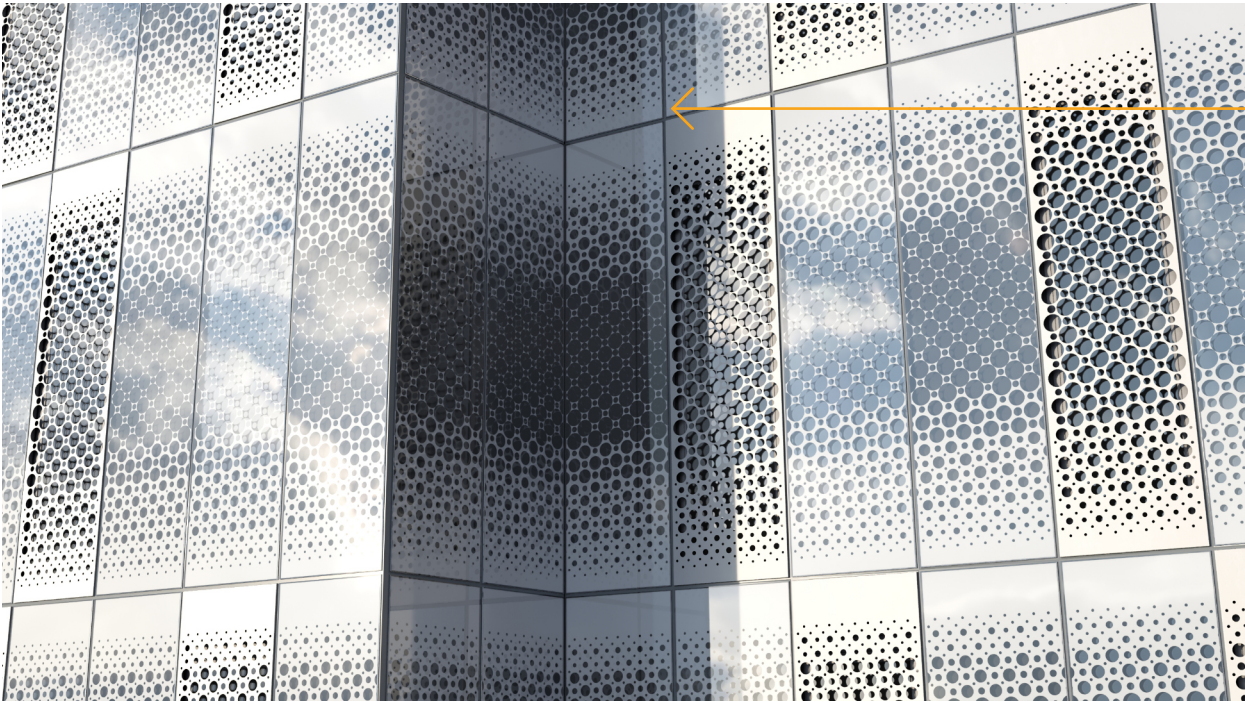
The report summarises agreements made relating to finishes and materiality of the unitised curtain walling shown in consented drawing 10266-Z0-A-G251-DE-XX-104 for Phase B (Building A and B) in consented drawing 10266-Z0-A-G100-PL-XX-99001



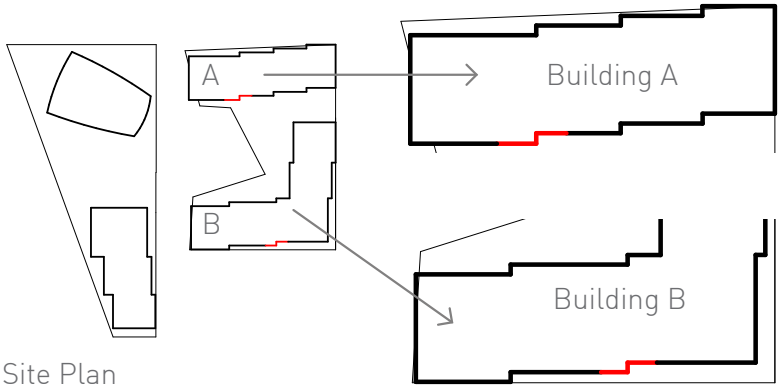
BUILDING A & B CGI



DRAWING - 10266-Z0-A-G251-DE-XX-104



BUILDING A & B - DETAIL FACADE CGI



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.

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



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)

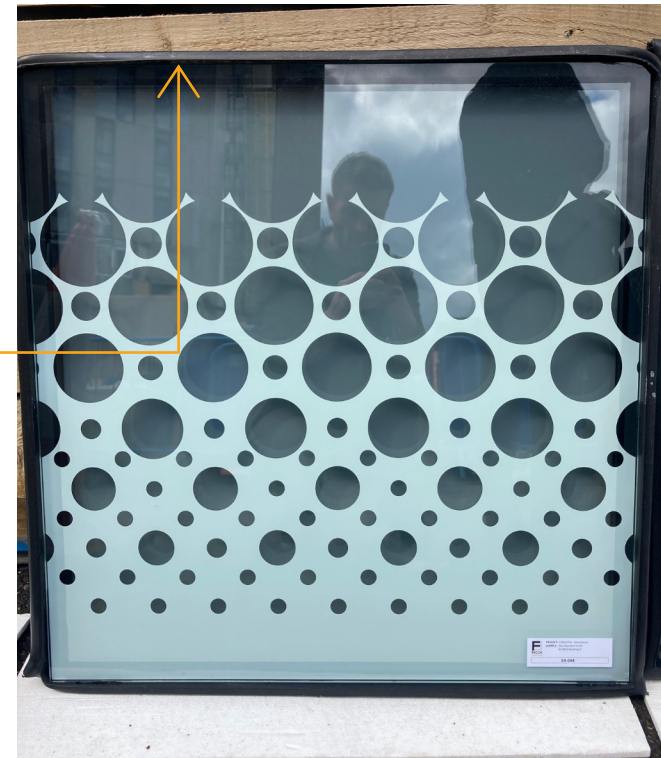
Richard Barchha, Steve Stratton, Barry Landrum

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).

GASKET COLOUR

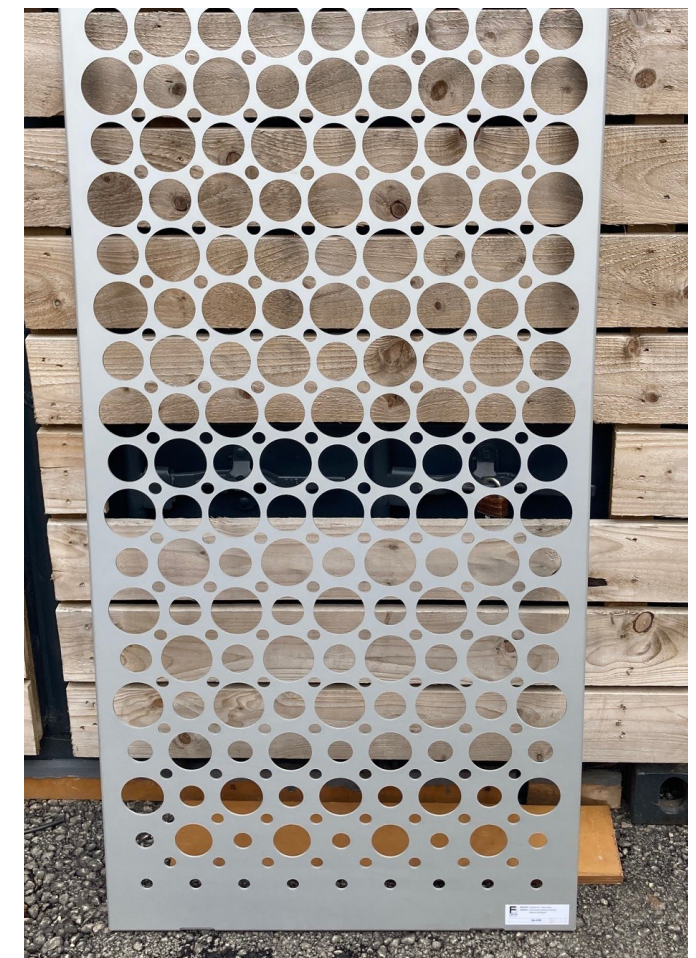
Gasket colours were explored - after input from the facade sub-contractor and on reviewing samples a black gasket was selected



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



Vision Panel - RAL 9010 face 2



Rapid Vent Veil - Natural Anodised

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 A & B
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 A & B
Photographed 12.10.2022

VIEWED FROM 50M+



HORIZONTAL BANDING

The strong horizontal frit is designed to express the form of the building when applied across the overall mass. The two images begin to show how the stepping forms will be articulated with the fritting.

VIEWED FROM 15M



PANEL MODULE

From 15m the panels and frit detail starts to become apparent with the emphasis still on the horizontal banding accentuating the stepping form of the building.

VIEWED FROM 3M



FRIT DETAIL

Closer up, the finer detail of the frit is revealed creating a lace work patternation across the facade panels and within the rooms. Depending on the angle or time of day the facets will read differently creating a dynamic and ever changing building.

PLANAR SURFACE

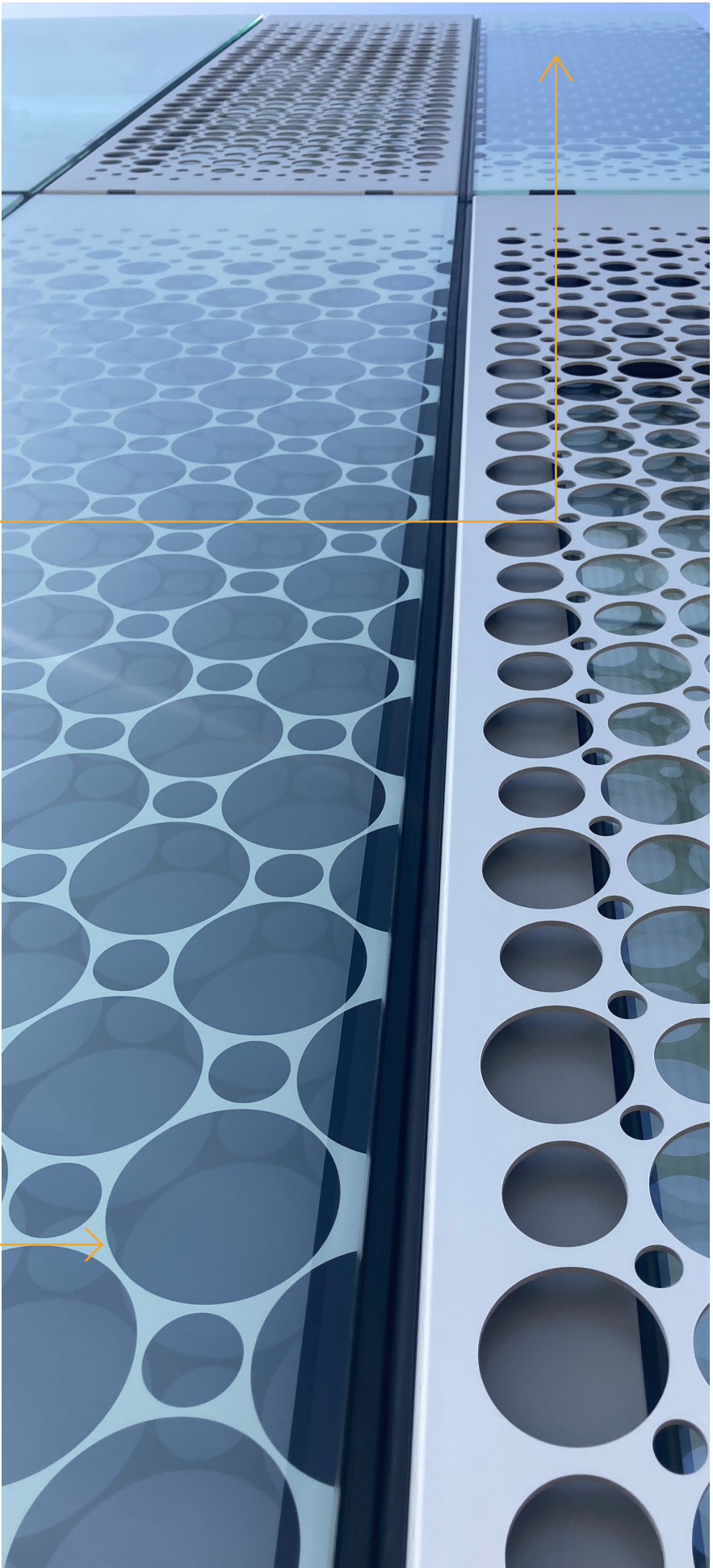
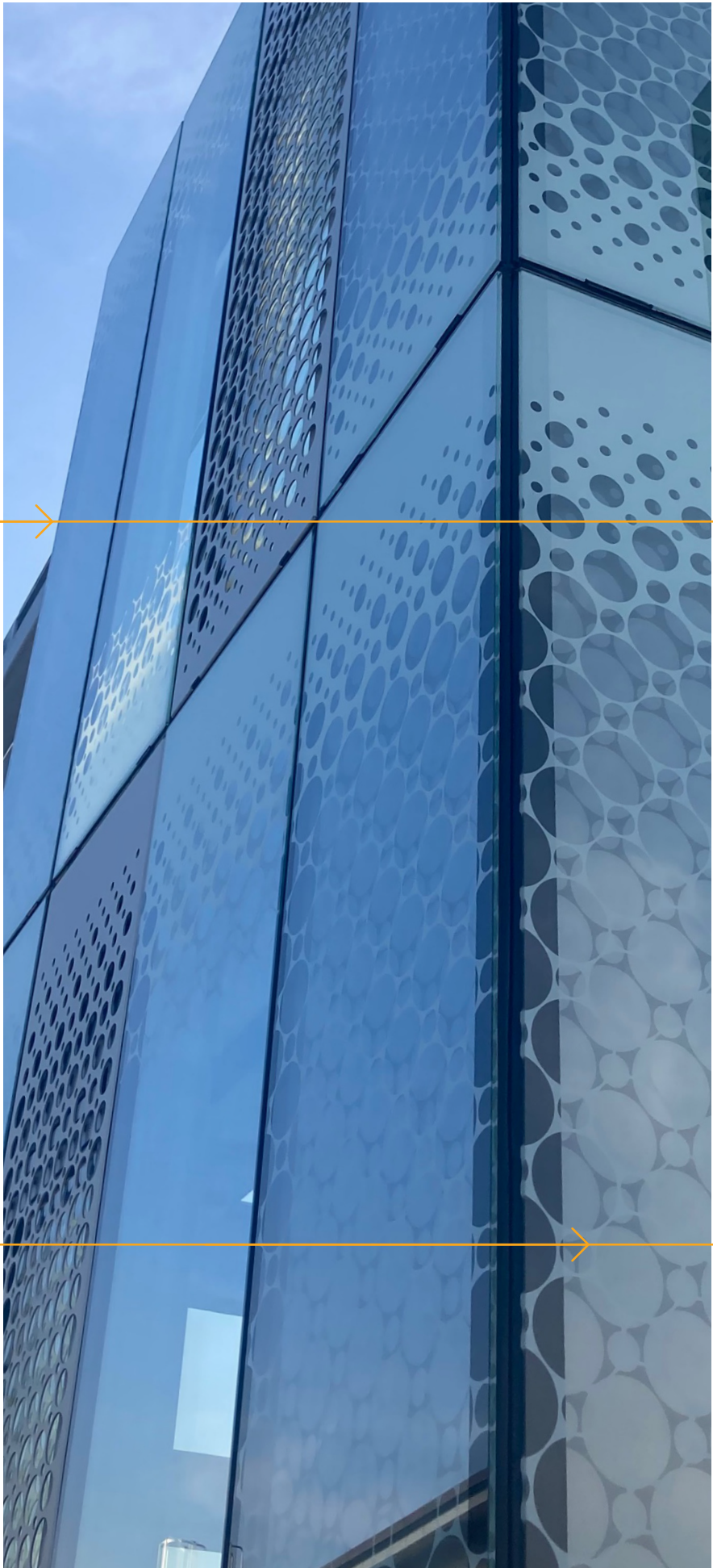
The VMU shows how the building facades will read as a planar surface in certain lighting conditions and from certain angles. The light dissolves the frit and the viewer will read the planar surface of the glass and metal rather than the decorative frit.

FRITTING IS DISSOLVED

The frit dissolves and the viewer reads the glass and metal surface rather than the decorative frit.

FRITTING ACCENTUATES FORM

Changes in geometry and angle the frit is viewed, accentuates the building form and creates a dynamic facade which is constantly changing depending on light, time of day and angle the building is viewed from.

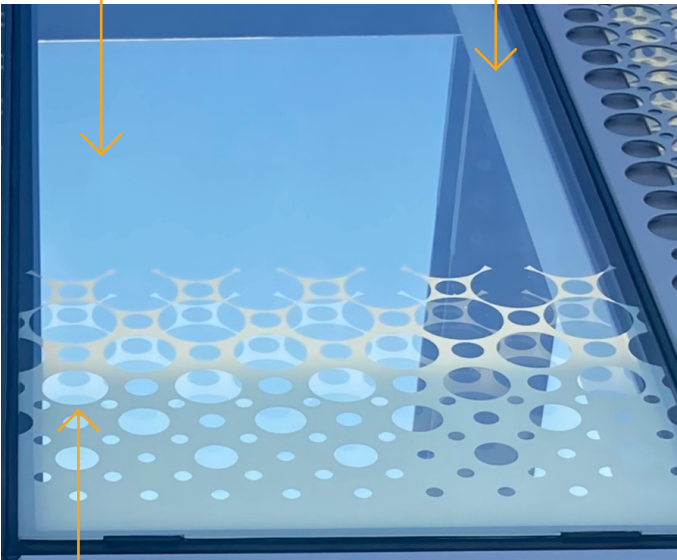


VISION PANEL UNIT

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.

CLEAR GLAZING **NATURAL ANODISED FRAME**



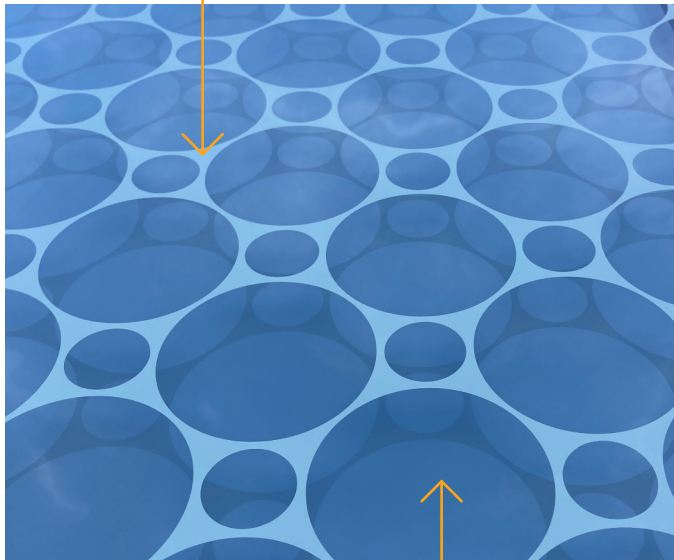
DECORATIVE FRIT - White RAL 9010

SPANDREL PANEL UNIT

The spandrel panel consists of two types of frit. The decorative white 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.

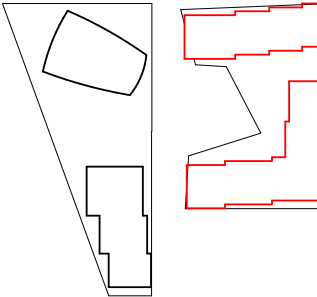
DECORATIVE FRIT - White/RAL 9010



SOLID FRIT - Light Grey RAL 7037



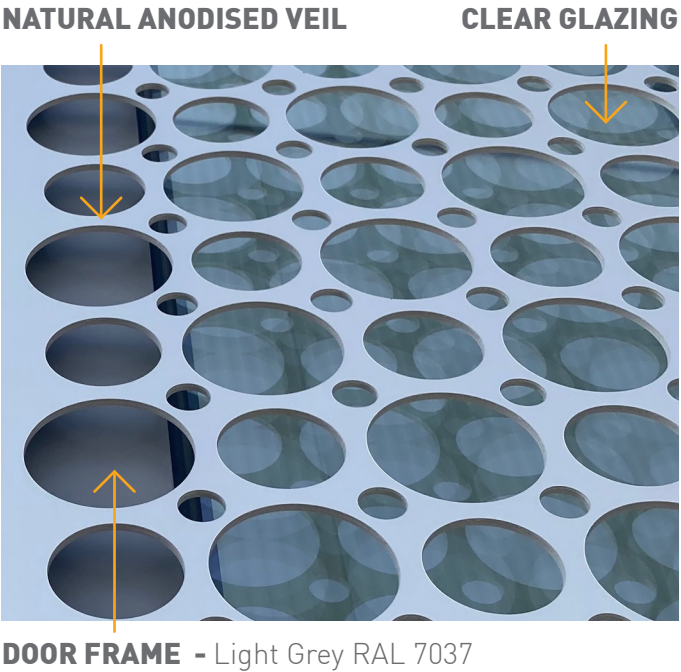
Visual Mock Up 1



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.

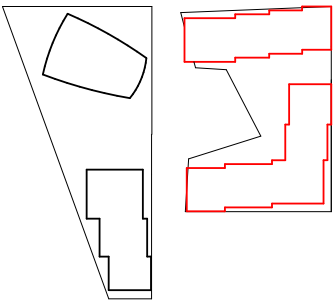
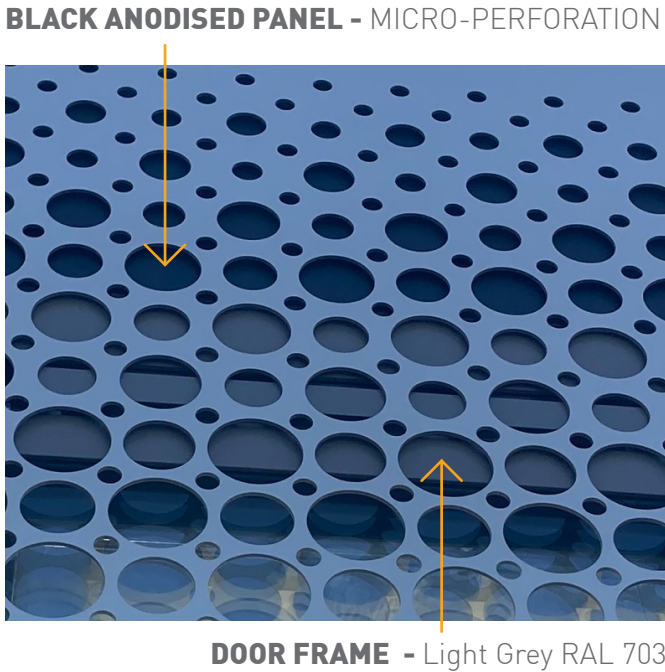


Visual Mock Up 1

RAPID VENT PANEL (UPPER)

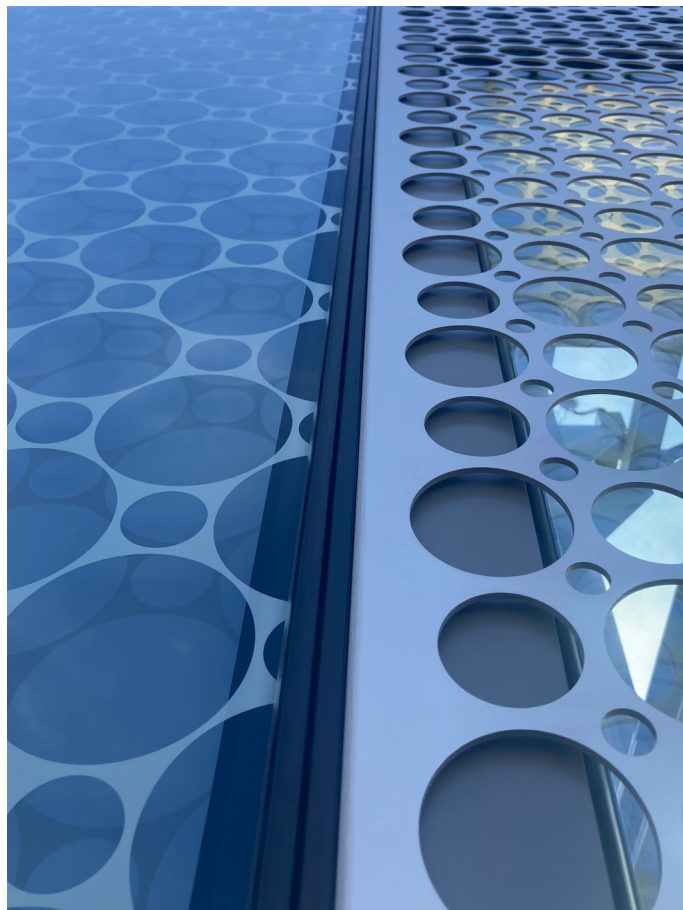
Mechanical ventilation intake/extract terminals are hidden behind a perforated black anodised panel helping to conceal the plenum box behind which maintains consistency behind the rapid vent veil.

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.



DECORATIVE PATTERN

The frit was designed to create the horizontal banding and is based on an 80mm grid which is set across an 800mm panel module. This allows for a continuous pattern across the facade interrupted only at a change in orientation



SPANDREL/RAPID VENT INTERFACE



Visual Mock Up 1



VISION/SPANDREL INTERFACE

CORNER INTERFACE

The overall patternation, designed to create the horizontal banding, is based on an 80mm grid which is set across an 800mm panel module. This allows for a continuous pattern across the facade only interrupted at a change in facade direction

The pattern interface will vary depending on the makeup panel dimension as they vary around the building. The external corner interface (below) shows the worst case scenario]



EXTERNAL CORNER INTERFACE



Visual Mock Up 1



INTERNAL CORNER INTERFACE

