Facade System



Ventilated facade

EL-CB-RP

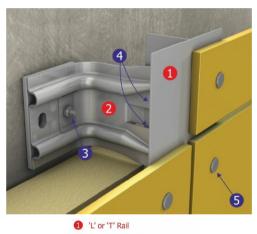
Elemental-Concrete Bracket- Rivet Petrarch

Contents:

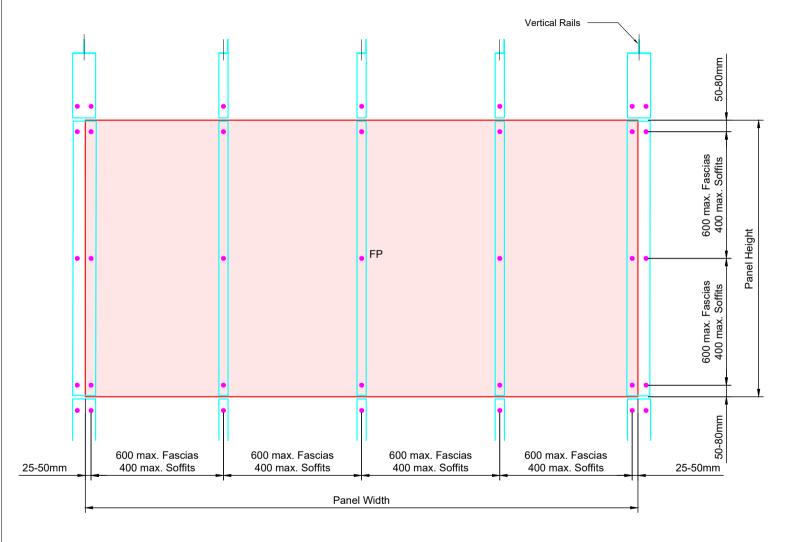
EL-CB-RP01	SYSTEM LAYOUT
EL-CB-RP02	BRACKET TYPES AVAILABLE
EL-CB-RP03	BASE DETAIL
EL-CB-RP04	HORIZONTAL PANEL JOINT DETAIL
EL-CB-RP05	VERTICAL PANEL JOINT DETAIL
EL-CB-RP06	INTERMEDIATE SUPPORT DETAIL
EL-CB-RP07	BUILDING STRUCTURAL MOVEMENT JOINT
EL-CB-RP08	EXTERNAL CORNER DETAIL
EL-CB-RP09	INTERNAL CORNER DETAIL
EL-CB-RP10	GENERIC PARAPET DETAIL
EL-CB-RP11	WINDOW CILL DETAIL
EL-CB-RP12	WINDOW HEAD DETAIL
EL-CB-RP13	WINDOW JAMB REVEAL DETAIL

Petrarch, Reconstituted Stone

7mm or 10mm Petrarch thickness Face Fix onto 1-layer Metal substructure



- 2 Support Bracket
- 3 Bracket to Wall Fixings/Anchors
- Rail to Bracket Fixings
- 5 Colour Coordinated Rivets



Face Fixing Guidelines

- Panels should be drilled with one fixed point nearest to the centre of the panel (FP - 4.9mm) and all others as sliding points (SP-9.5mm).
- Holes in the subframe should all be drilled 4.9mm using a centralising tool.
- Rivets specification:
- •• 7mm Petrarch- Large flange Al or S/S Ø16mm Head 4.8x18mm (grip range 6.0:12.5mm)
- •• 10mm Petrarch Large flange Al or S/S Ø16mm Head 4.8x23mm (grip range 11.0:19.5mm)
- Rivets should always be installed using a Centralising Tool and a Special Nose Piece G3
 Thread M10 x 1 16mm head allowing a 0.3mm clearance for stress free mounting of the Rivets.
- Centres of fixings shown are the absolute maximum. Project wind loads should be checked against load tables in the Petrarch Technical Guide.

Riven surface also requires the use of Black Rubber Gasket Washer 4.3x1x14 on the rivet.

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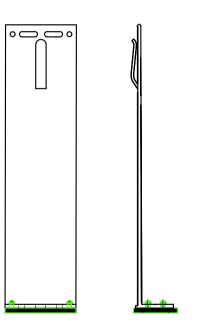
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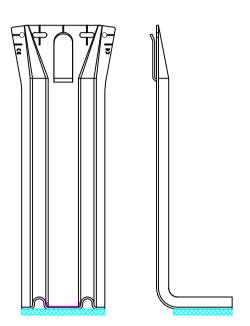
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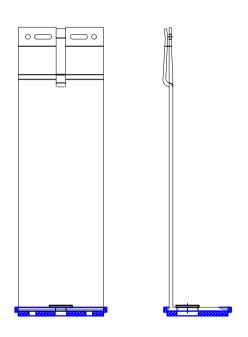
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Drawing No.	FL-CB-RP01	System:	EL-Rivet	Size:	ΔΔ	Scale:	NITC	Drawn:	V

Petrarch

BRACKET TYPES AVAILABLE FROM ELEMENTAL







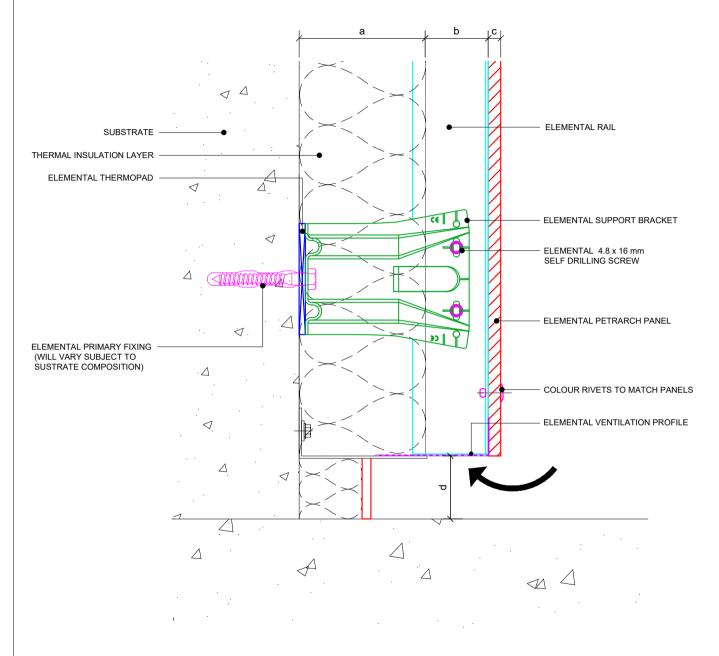


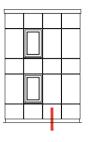
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Email: info@elemental.ie

Drawing Title	BRACKET TYPES AVAILABLE										
Drawing No.	EL-CB-RP02	System:	EL-Rivet Petrarch	Size:	A4	Scale:	NTS	Drawn:	v.c.	Rev.	01





	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
С	Panel nominal thickness
d	Base distance - Minimum 50mm
a+b	Clad Zone

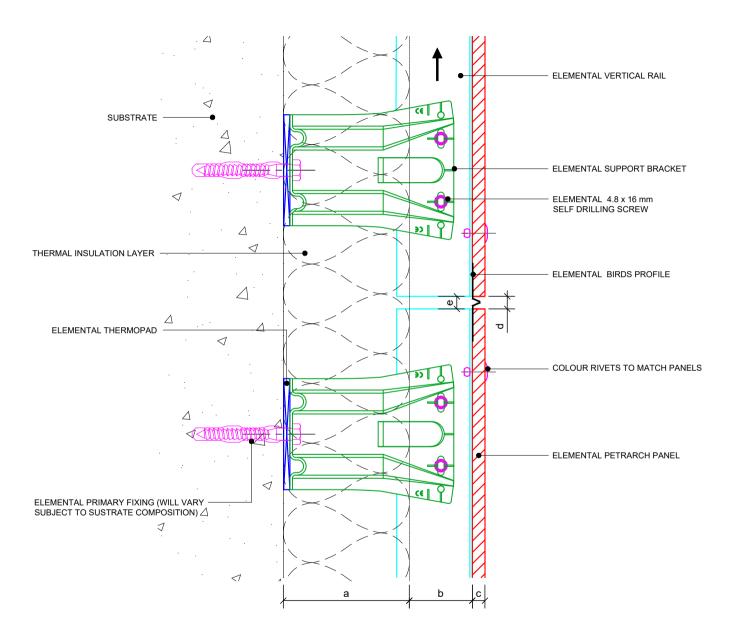
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Drawing Title	ELEMENTAL PETRARCH - FACE FIX BASE DETAIL										
Drawing No.	EL-CB-RP03	System:	EL-Rivet Petrarch	Size:	A4	Scale:	NTS	Drawn:	v.c.	Rev.	01



	Dimensions						
а	Insulation thickness (varies)						
b	Free vertical ventilation gap						
С	Panel nominal thickness						
d	Panel Joint - 10mm						
е	Rail Joint - Minimum 10mm (cladding panels should not be fixed to two adjacent vertical rails)						
a+b	Clad Zone						



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Drawing Title		HORIZONTAL PANEL JOINT D				T DET	AIL	
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Petrarch

EL-CB-RP04 System: Drawing No.

Size: Α4

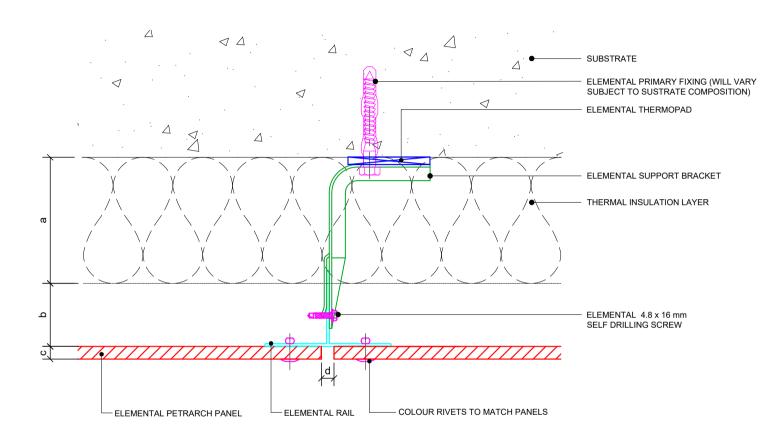
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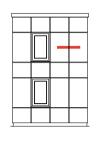
NTS Drawn:

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	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
С	Panel nominal thickness
d	Panel Joint - 10mm
a+b	Clad Zone

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ELEMENTAL PETRARCH - FACE FIX VERTICAL PANEL JOINT DETAIL

EL-CB-RP05 System: Drawing No.

Drawing Title

EL-Rivet	
Petrarch	

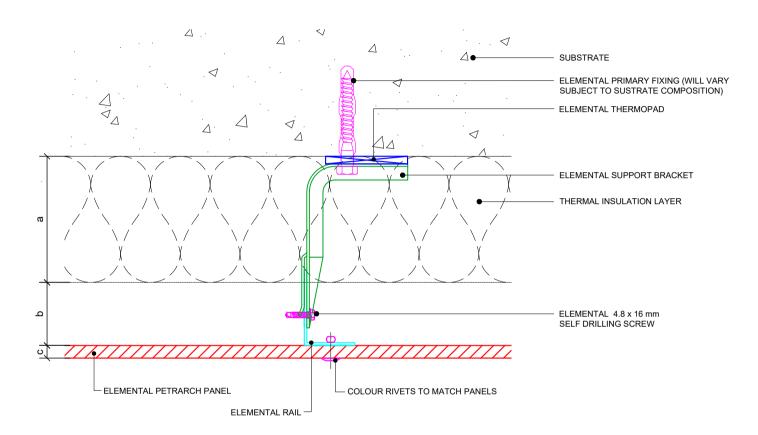
Α4 Size:

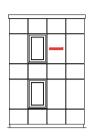
Scale:

NTS Drawn: V.C.

Rev.

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	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
С	Panel nominal thickness
a+b	Clad Zone



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	Sandyford
	Dublin 18, D18 A264
	Phone: +353 (0)1 293 8951
	Email: info@elemental io

Drawing Title		INTERN	/IEDIAT	E SL	IPPOR ⁻	PORT DETAIL				
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EL-CB-RP06 System: Drawing No.

EL-Rivet	
Petrarch	0

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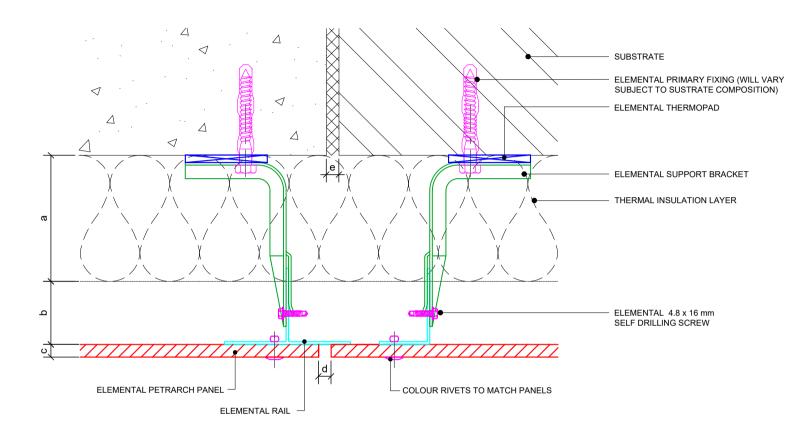
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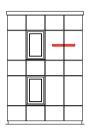
Drawn:

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	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
С	Panel nominal thickness
d	Panel Joint - 10mm / to match building movement joint
е	Building Structural Movement Joint
a+b	Clad Zone

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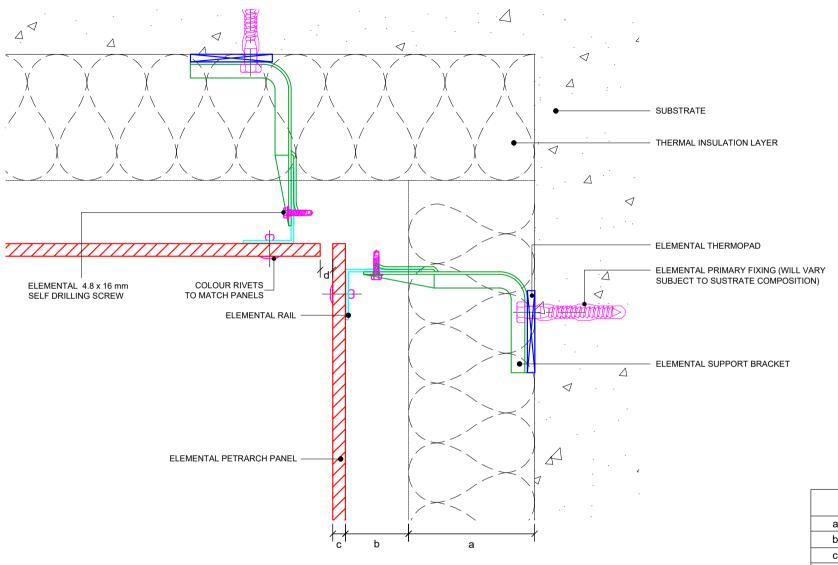
Email: info@elemental.ie

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Drawing Title		ELEMENTAL PETRARCH - FACE FIX BUILDING STRUCTURAL MOVEMENT JOINT								
Drawing No.	EL-CB-RP07	System:	EL-Rivet	Size:	Α4	Scale:	NTS	Drawn:	V.C.	Rev

Petrarch

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculations and calculations supplied by Elemental Architectural Cladding Specialists are provided in good faith and should always be checked and approved by the project engineer responsible. Elemental Architectural Cladding Specialists will not accept any liability should the system be designed / installed incorrectly. ELEMENTAL PETRARCH PANEL **ELEMENTAL THERMOPAD** SUBSTRATE THERMAL INSULATION LAYER **ELEMENTAL SUPPORT BRACKET** ELEMENTAL PRIMARY FIXING (WILL VARY ELEMENTAL 4.8 x 16 mm SUBJECT TO SUSTRATE COMPOSITION) SELF DRILLING SCREW * Mitred Joint Corner option 60x40mm rail is used to support the panel edges **Dimensions** Insulation thickness (varies) а Free vertical ventilation gap b Panel nominal thickness С d ≤ 300mm d Panel Joint - 10mm е ELEMENTAL RAIL f Mitred Joint projection - 5mm * Open Joint Corner option COLOUR RIVETS TO MATCH PANELS ELEMENTAL EXTERNAL CORNER PROFILE -60x40mm rail is used to support the panel edges Clad Zone a+b **ELEMENTAL PETRARCH - FACE FIX** Elemental Architectural Cladding Specialists Drawing Title #29 The Cubes Offices, Beacon South Quarter, **EXTERNAL CORNER DETAILS** Sandyford Dublin 18, D18 A264 **EL-Rivet** Phone: +353 (0)1 293 8951 EL-CB-RP08 System: Drawing No. NTS Drawn: V.C. Rev. 01 Α4 Scale: Size: Email: info@elemental.ie Petrarch Elemental Architectural Cladding Specialists reserve the right to amend details at any time without prior notice. Reproduction or disclosure to third parties is strictly prohibited and can only be attained through signed, written consent from Elemental ACS.



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Dimensions				
а	Insulation thickness (varies)			
b	Free vertical ventilation gap			
С	Panel nominal thickness			
d	Panel Joint - 10mm			
a+b	Clad Zone			



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Drawing Title

Drawing No.

ELEMENTAL PETRARCH - FACE FIX INTERNAL CORNER DETAIL

EL-Rivet EL-CB-RP09 System: Petrarch

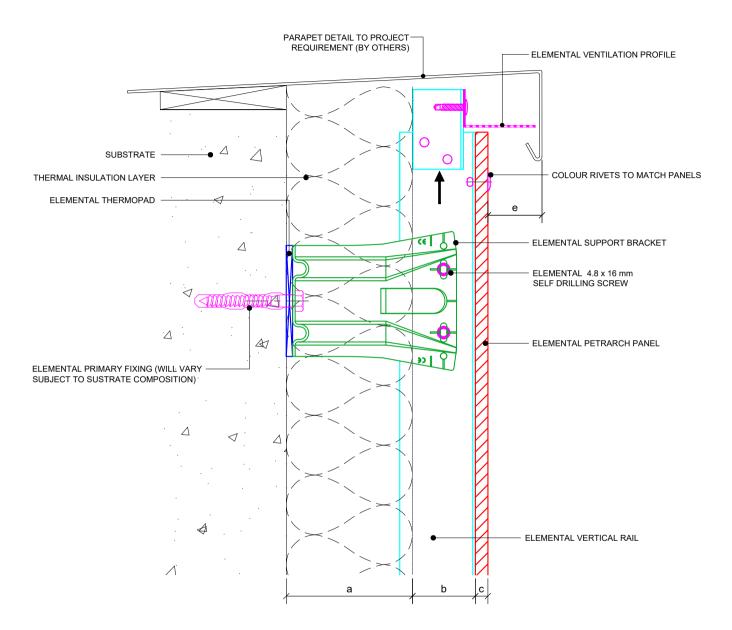
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Scale:

NTS Drawn: V.C.

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	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
С	Panel nominal thickness
a+b	Clad Zone

NTS Drawn:

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Drawing Title		GENERIC PARAPET DETAIL						
			ELEM	ENTAL	PETF	RARCH	- FAC	E FIX

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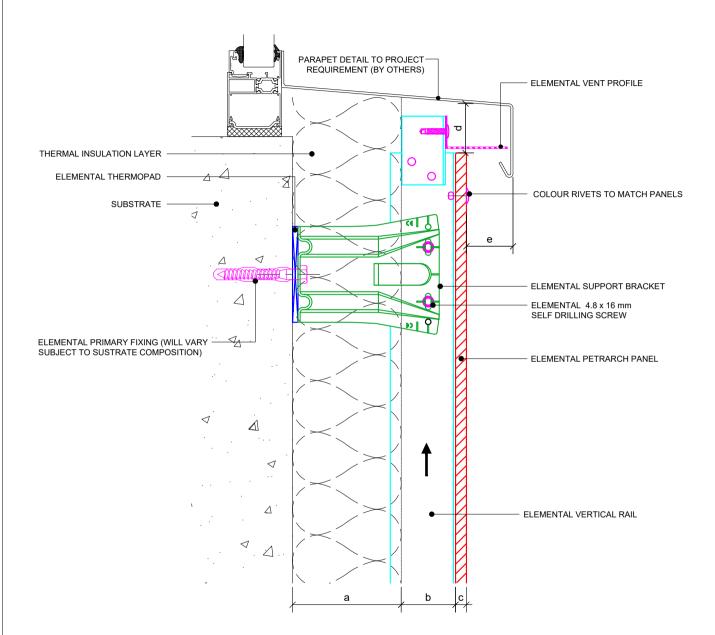
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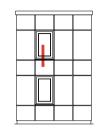
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EL-CB-RP10 System:

Drawing No.





	Dimensions					
а	Insulation thickness (varies)					
b	Free vertical ventilation gap					
c Panel nominal thickness						
d	Ventilation inlet / outlet gaps					
е	≥ 40mm					
a+b	Clad Zone					

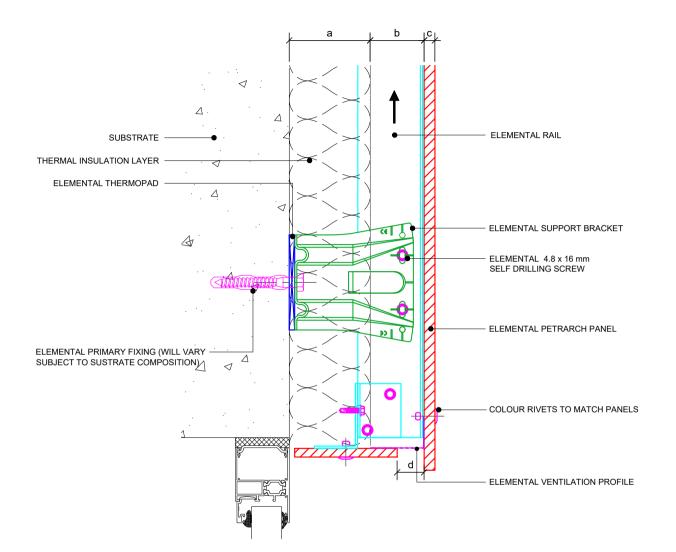


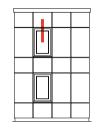
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Drawing No.	EL-CB-RP11	System:	EL-Rivet Petrarch	Size:	A4	Scale:	NTS	Drawn:	v.c.	Rev.	01





	Dimensions					
а	Insulation thickness (varies)					
b	Free vertical ventilation gap					
С	Panel nominal thickness					
d	Ventilation inlet / outlet gaps					
a+b	Clad Zone					

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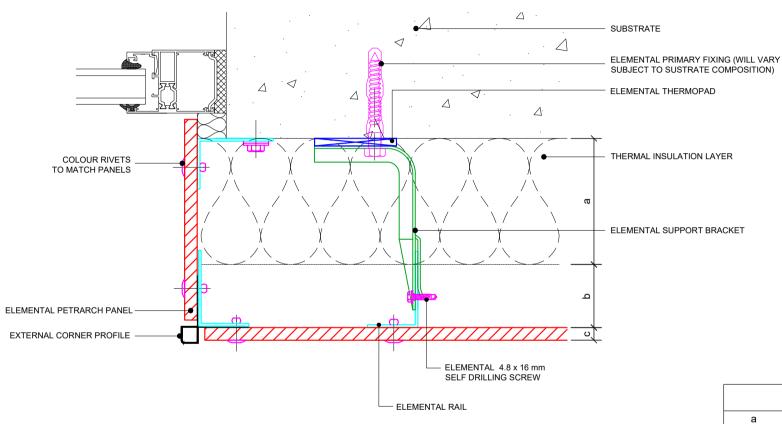
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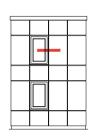
EL-CB-RP12 System:

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Petrarch	Size

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	Dimensions					
а	Insulation thickness (varies)					
b	Free vertical ventilation gap					
С	Panel nominal thickness					
a+b	Clad Zone					



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313		

Drawing Title

ELEMENTAL PETRARCH - FACE FIX WINDOW JAMB REVEAL DETAIL

EL-CB-RP13 System: Drawing No.

EL-Rivet Size: Petrarch

A4

Scale:

NTS Drawn: V.C.

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