

Facade System

Ventilated facade

EL-SB-RP

Elemental-SFS Bracket-Rivet Petrarch

Contents:

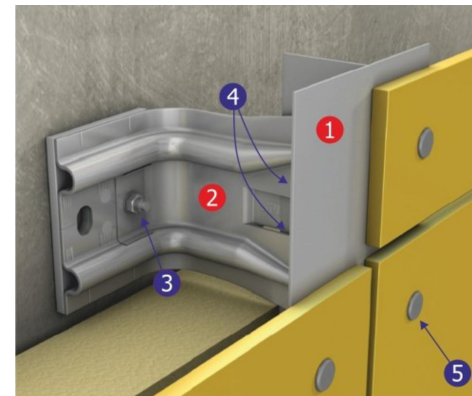
EL-SB-RP01	SYSTEM LAYOUT
EL-SB-RP02	BRACKET TYPES AVAILABLE
EL-SB-RP03	BASE DETAIL
EL-SB-RP04	HORIZONTAL PANEL JOINT DETAIL
EL-SB-RP05	VERTICAL PANEL JOINT DETAIL
EL-SB-RP06	INTERMEDIATE SUPPORT DETAIL
EL-SB-RP07	BUILDING STRUCTURAL MOVEMENT JOINT
EL-SB-RP08	EXTERNAL CORNER DETAIL
EL-SB-RP09	INTERNAL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

Petrarch, Reconstituted Stone

7mm or 10mm Petrarch thickness

Face Fix onto 1-layer

Metal substructure

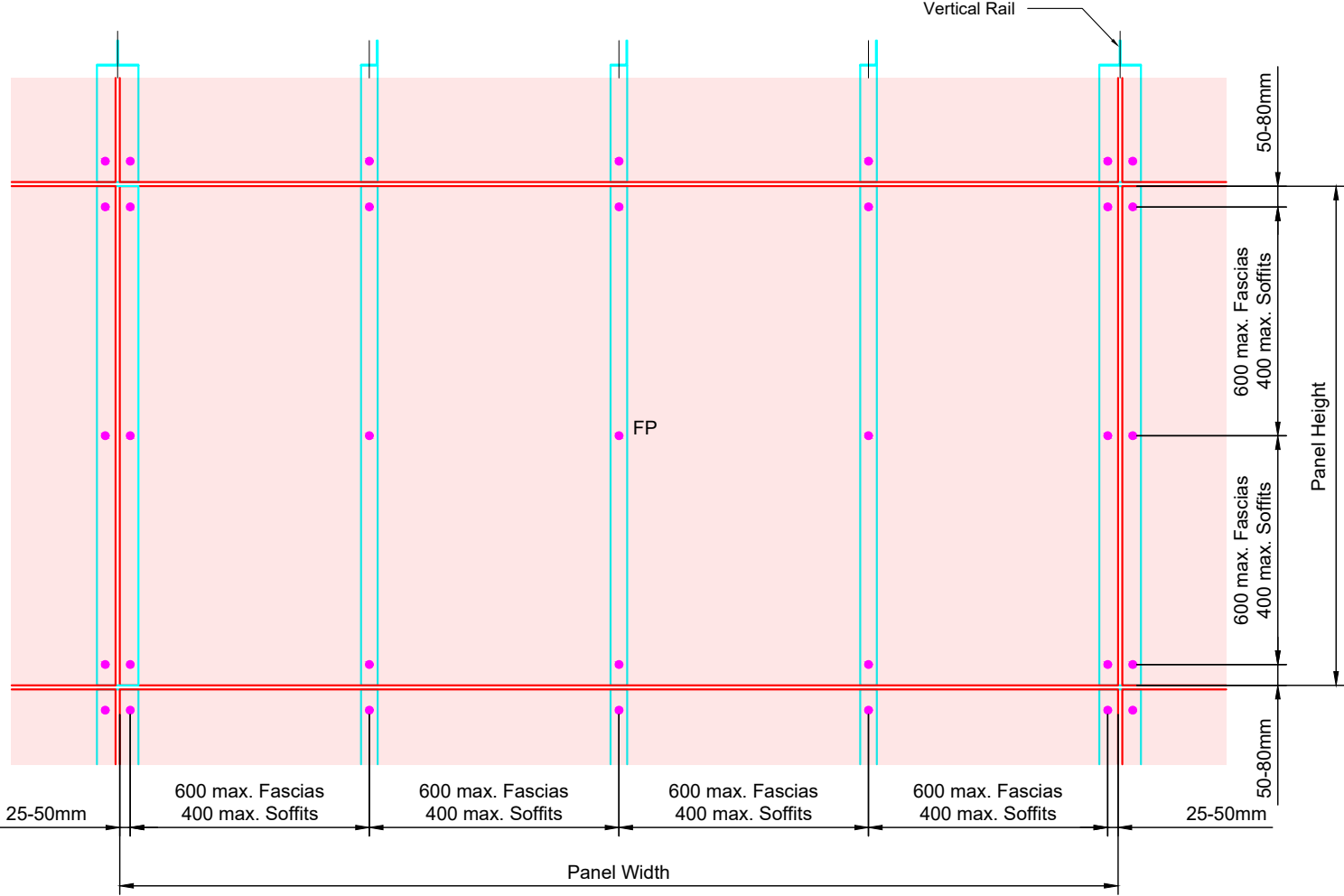


- 1 'L' or 'T' Rail
- 2 Support Bracket

FIXINGS:

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

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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.



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title

Drawing No.

EL-SB-RP01

System:

EL-Rivet
Petrarch

Size:

A4

Scale:

NTS

Drawn:

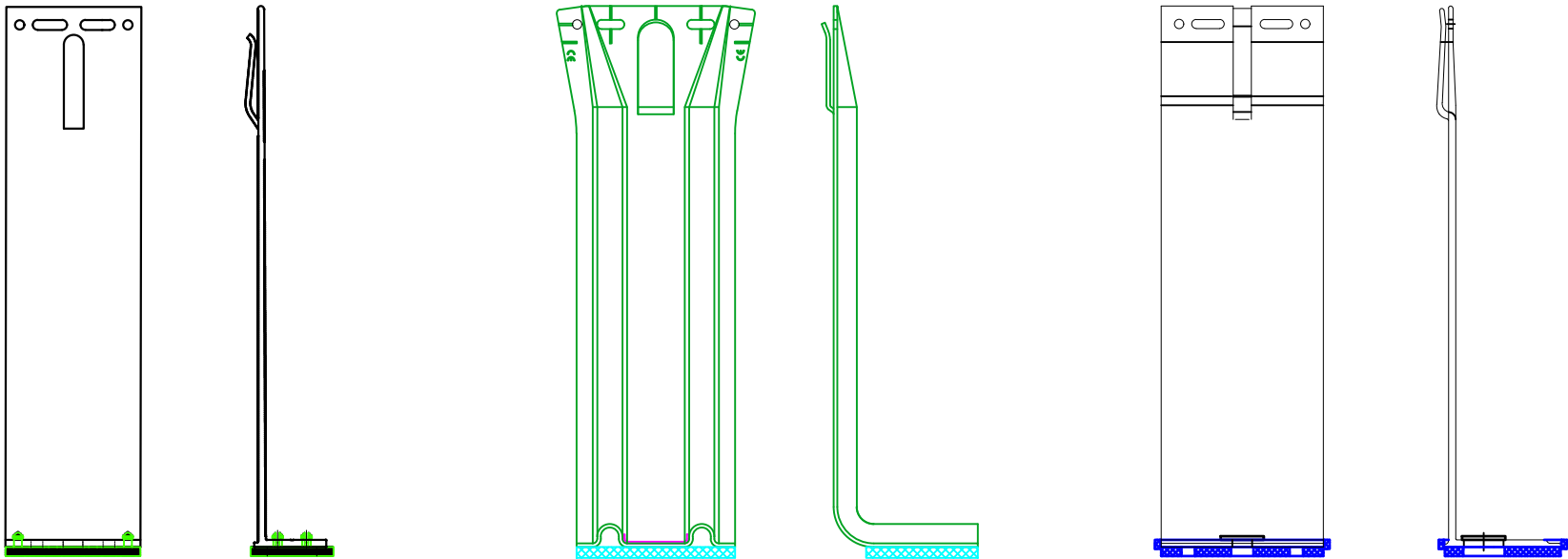
V.C.

Rev.

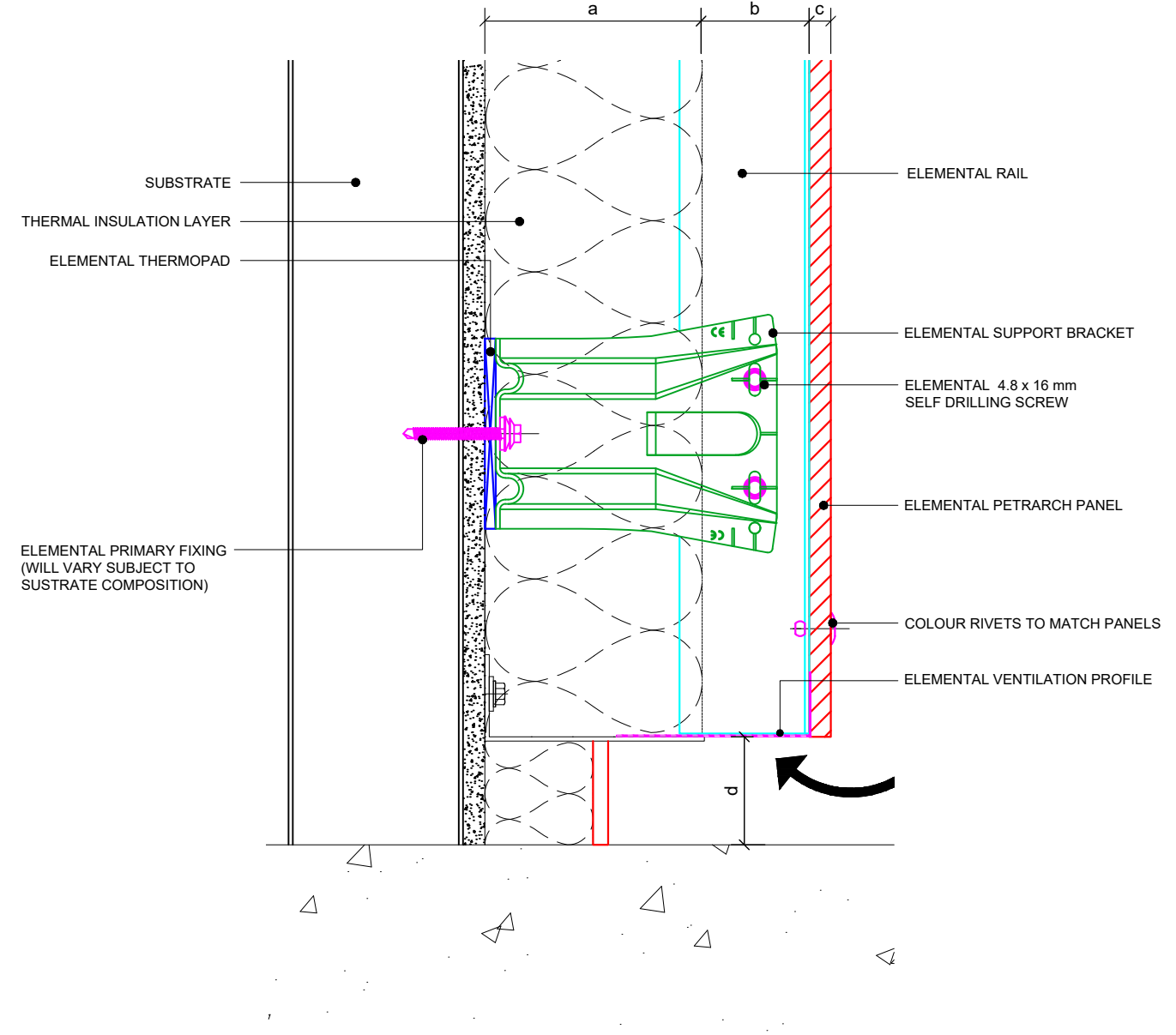
01

**ELEMENTAL PETRARCH - FACE FIX
SYSTEM LAYOUT**

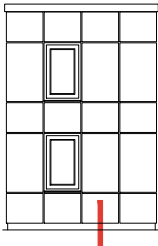
BRACKET TYPES AVAILABLE FROM ELEMENTAL



These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.

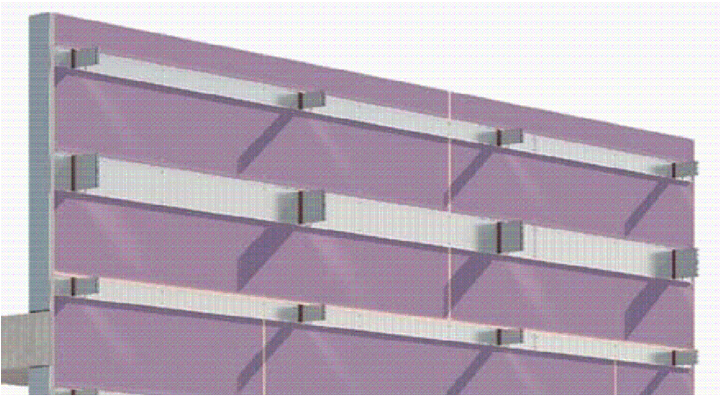
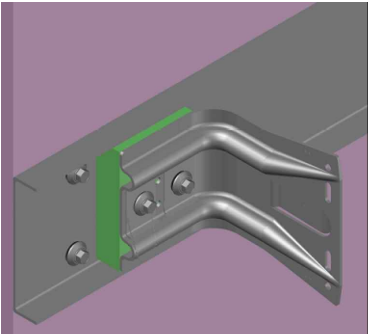


Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Panel nominal thickness
d	Base distance - Minimum 50mm
a+b	Clad Zone

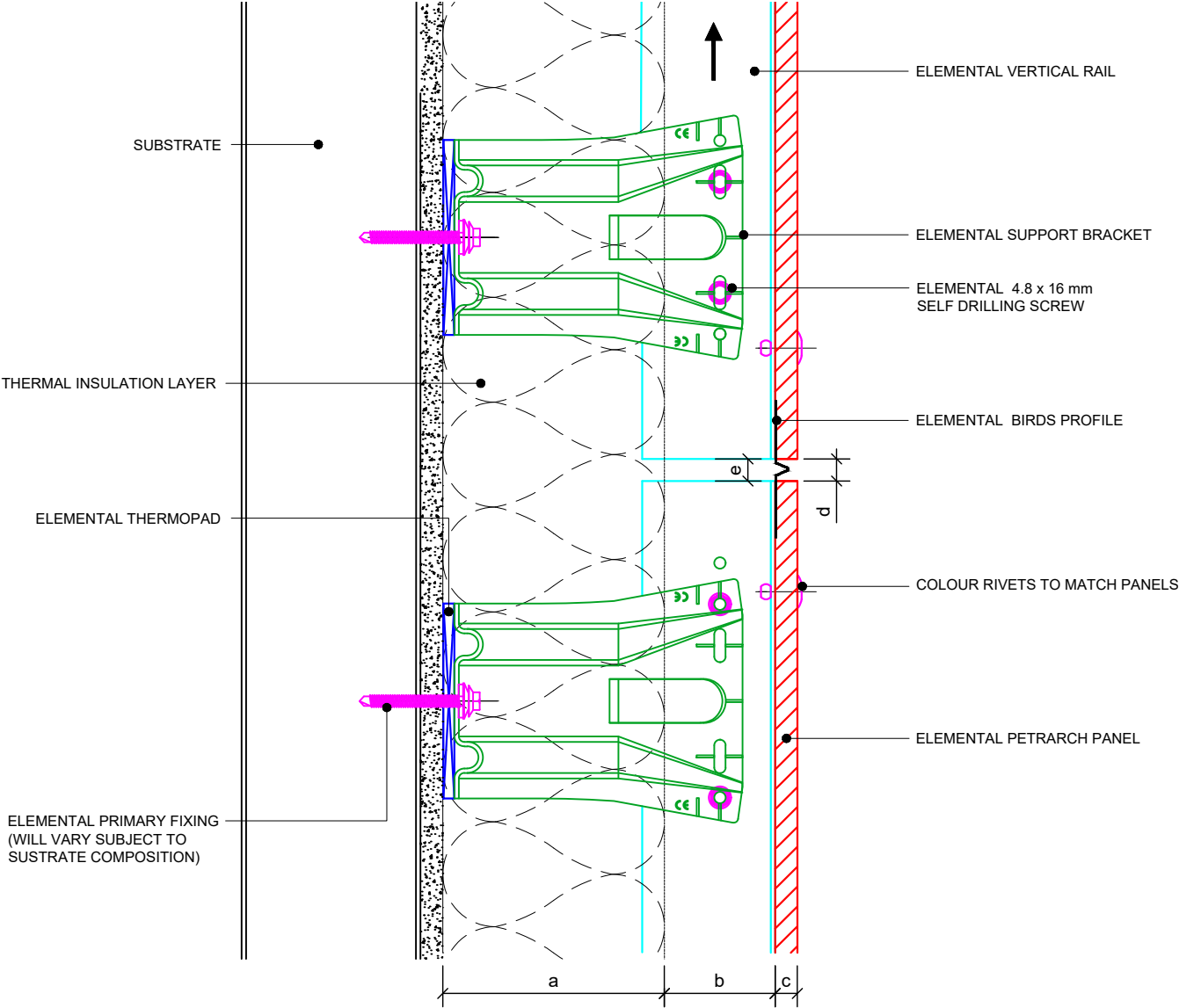


Note:

“In the event that the subframe brackets do not line up with the vertical steel studs a horizontal galvanised stud maybe required”



These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title

**ELEMENTAL PETRARCH - FACE FIX
HORIZONTAL PANEL JOINT DETAIL**

Drawing No.

EL-SB-RP04

System:

**EL-Rivet
Petrarch**

Size:

A4

Scale:

NTS

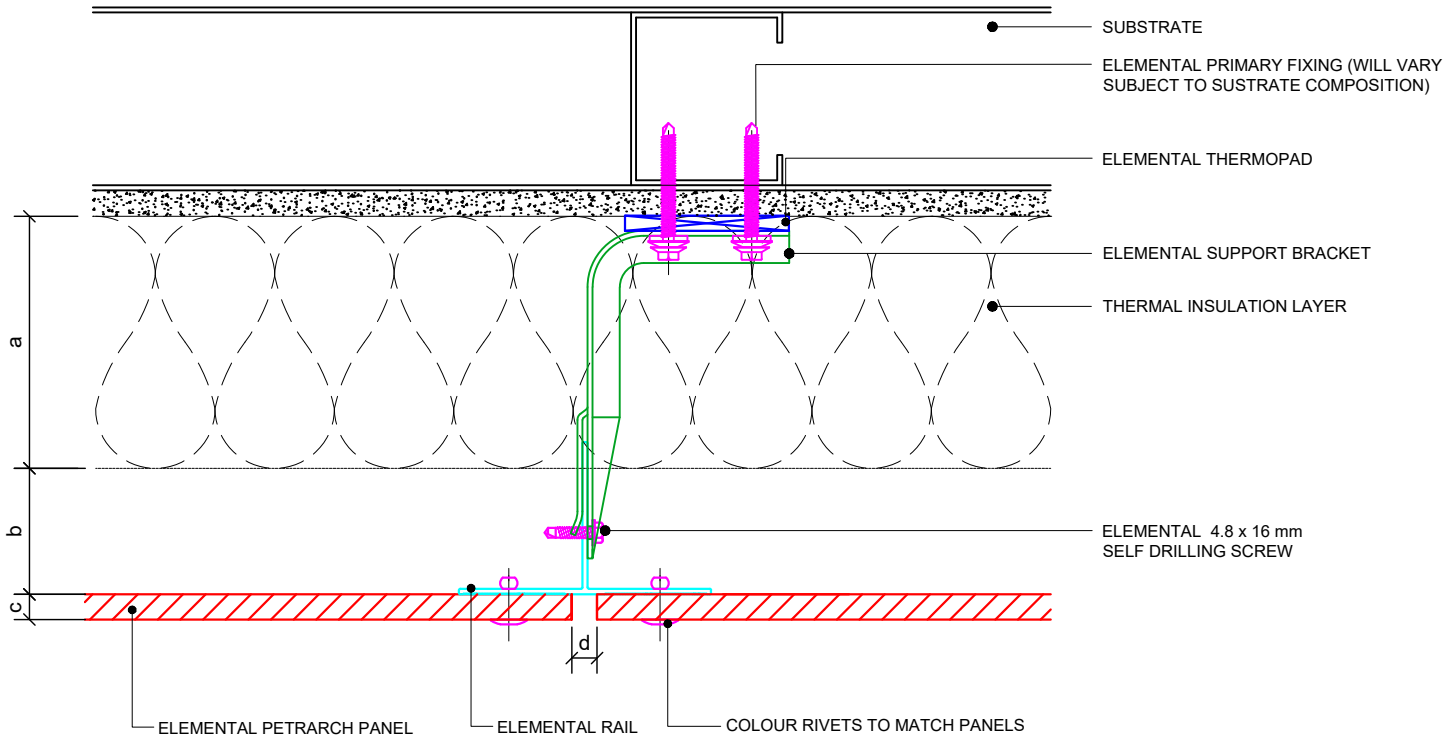
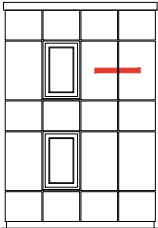
Drawn:

V.C.

Rev.

01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title

**ELEMENTAL PETRARCH - FACE FIX
VERTICAL PANEL JOINT DETAIL**

Drawing No.

EL-SB-RP05

System:

**EL-Rivet
Petrarch**

Size:

A4

Scale:

NTS

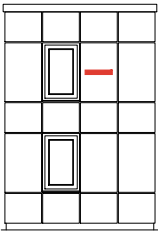
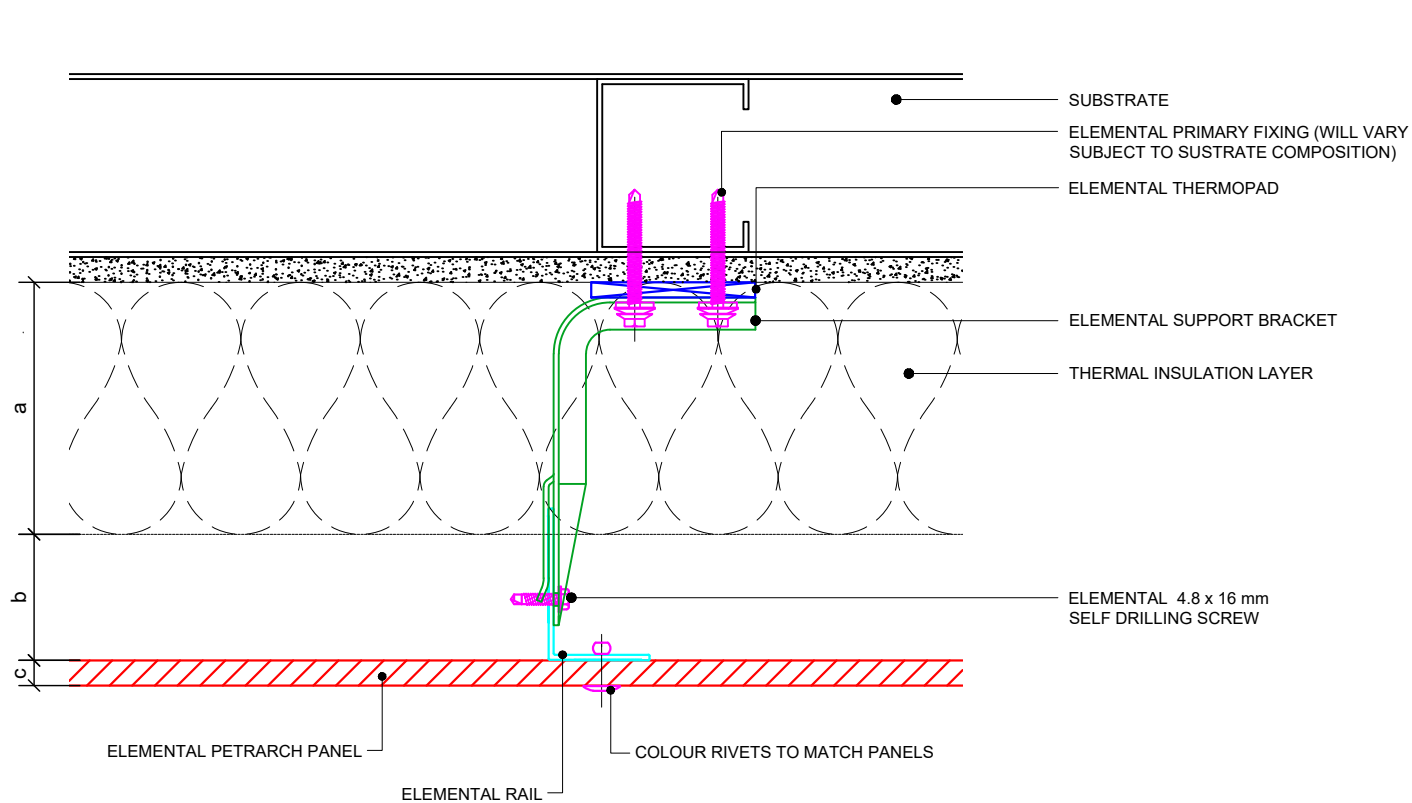
Drawn:

V.C.

Rev.

01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



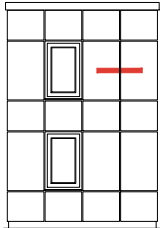
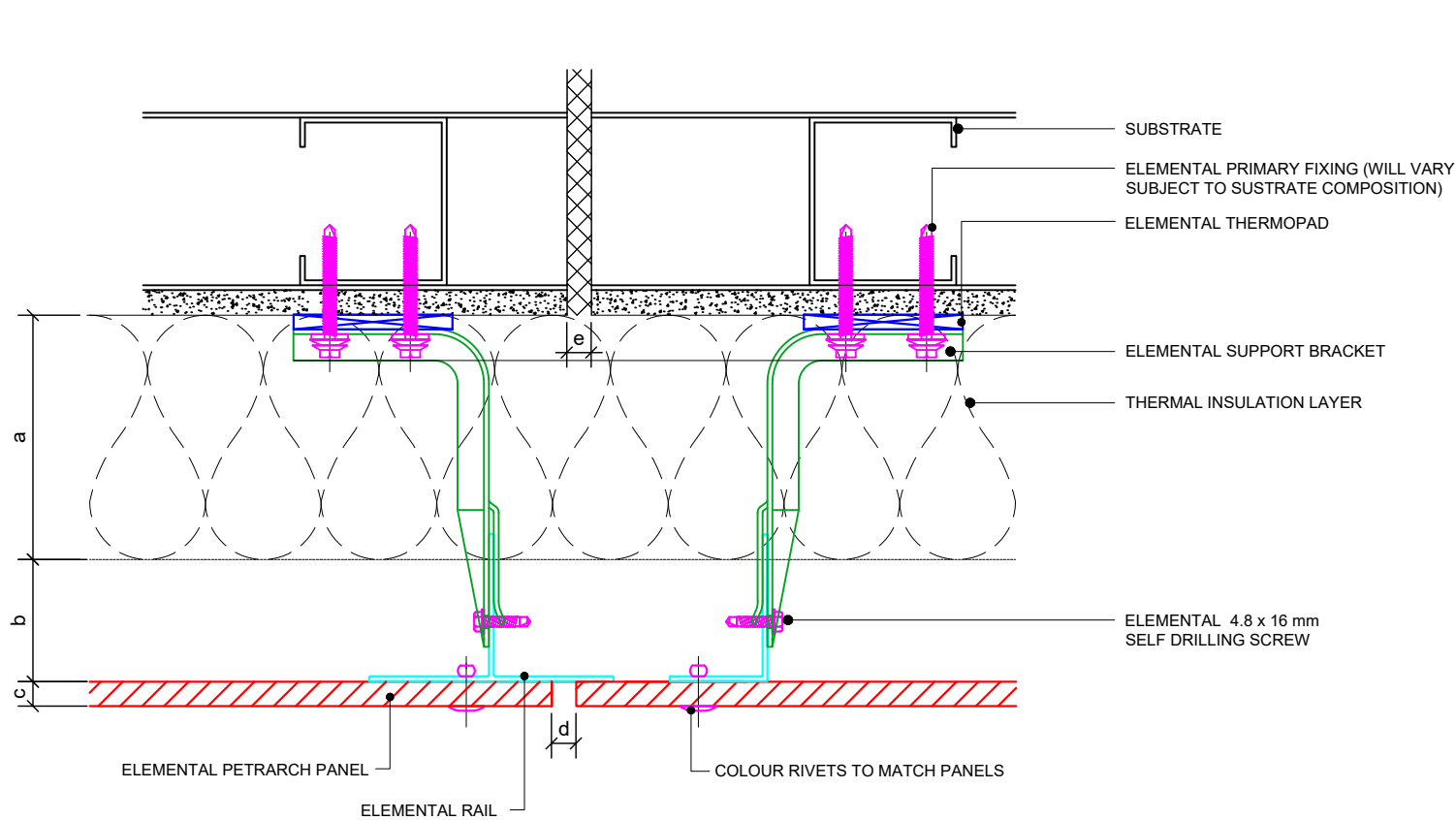
Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Panel nominal thickness
a+b	Clad Zone



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title											
ELEMENTAL PETRARCH - FACE FIX INTERMEDIATE SUPPORT DETAIL											
Drawing No.		System:	EL-Rivet Petrarch	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title

**ELEMENTAL PETRARCH - FACE FIX
BUILDING STRUCTURAL MOVEMENT JOINT**

Drawing No.

EL-SB-RP07

System:

**EL-Rivet
Petrarch**

Size:

A4

Scale:

NTS

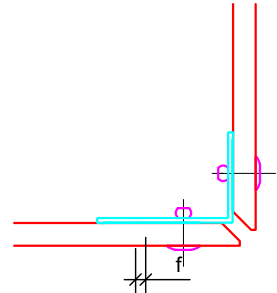
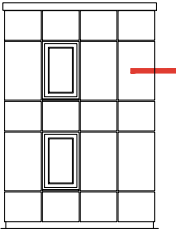
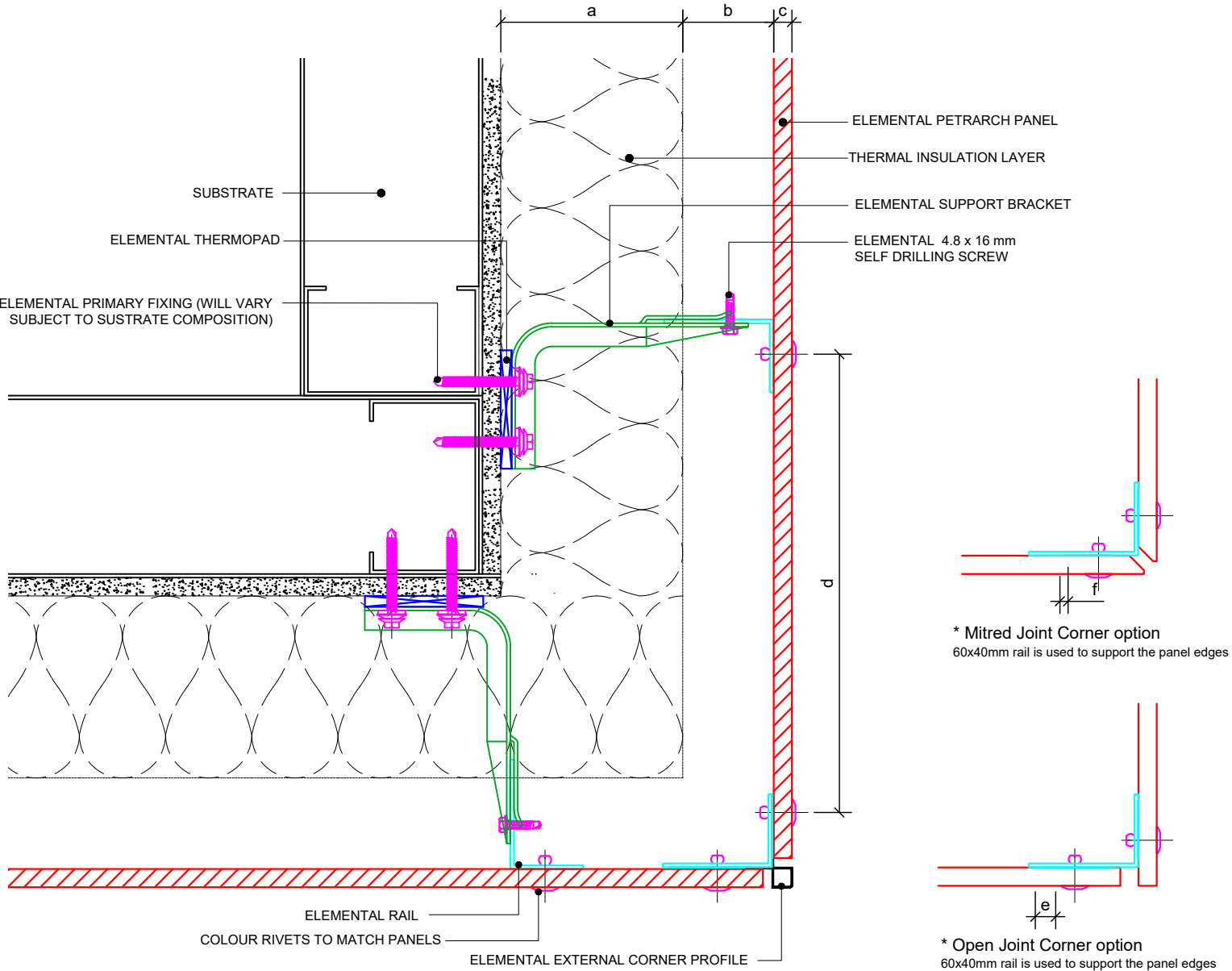
Drawn:

V.C.

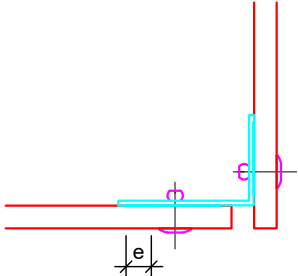
Rev.

01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



* Mitred Joint Corner option
60x40mm rail is used to support the panel edges



* Open Joint Corner option
60x40mm rail is used to support the panel edges

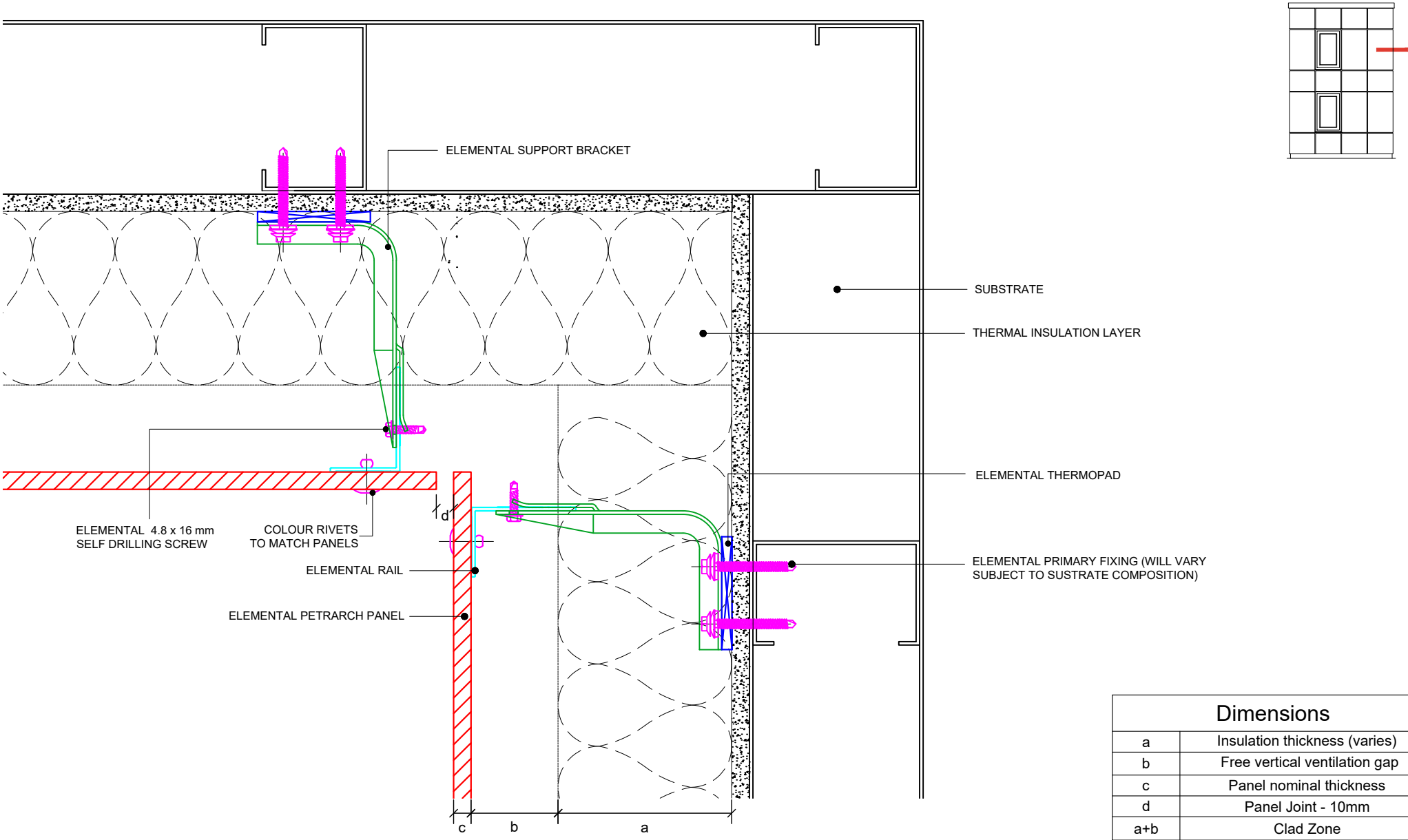
Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Panel nominal thickness
d	≤ 300mm
e	Panel Joint - 10mm
f	Mitred Joint projection - 5mm
a+b	Clad Zone



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title		ELEMENTAL PETRARCH - FACE FIX EXTERNAL CORNER DETAILS									
Drawing No.	EL-SB-RP08	System:	EL-Rivet Petrarch	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title

**ELEMENTAL PETRARCH - FACE FIX
INTERNAL CORNER - OPEN OPTION**

Drawing No.

EL-SB-RP09

System:

**EL-Rivet
Petrarch**

Size:

A4

Scale:

NTS

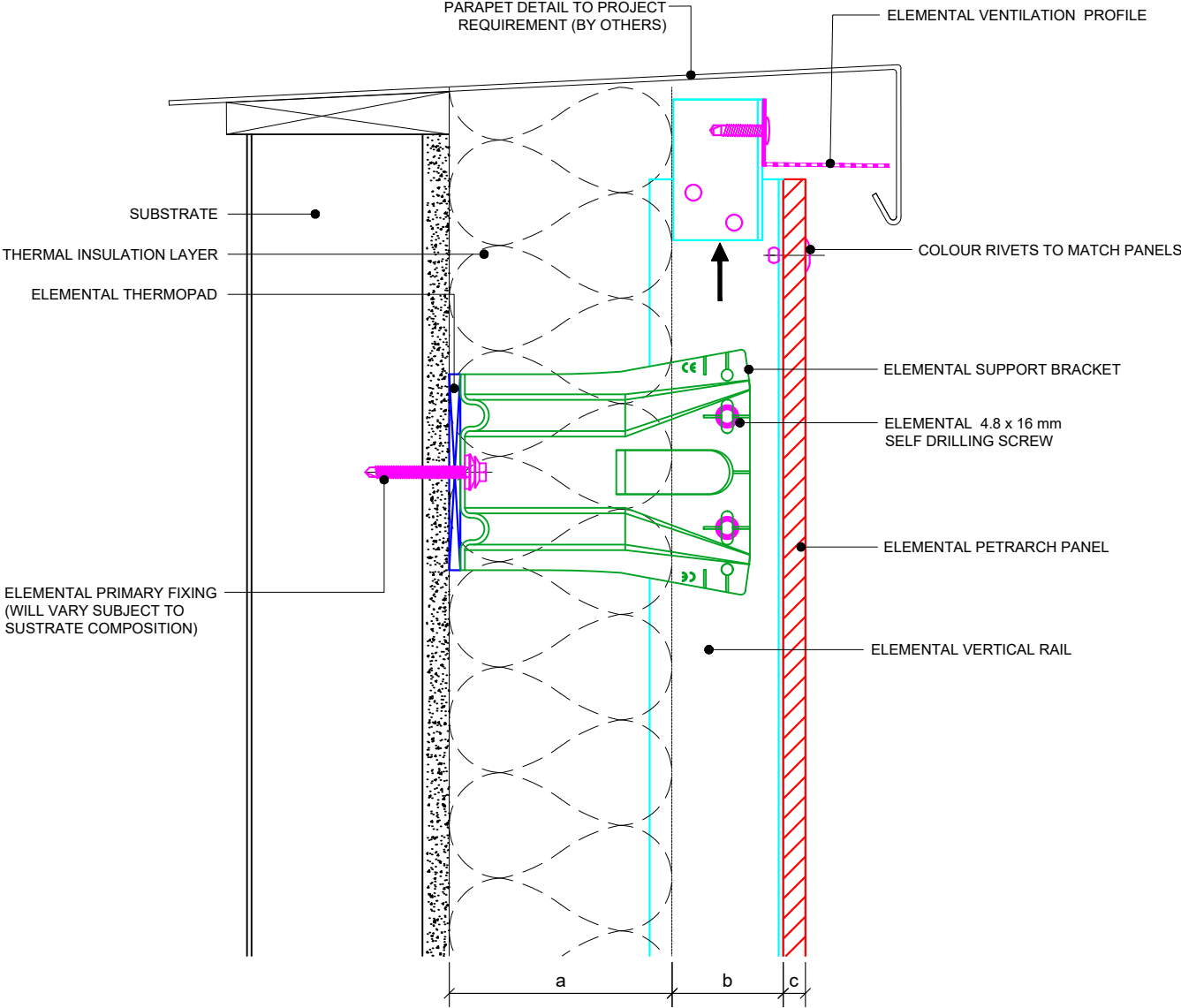
Drawn:

V.C.

Rev.

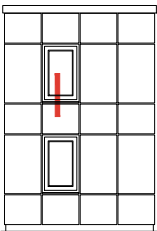
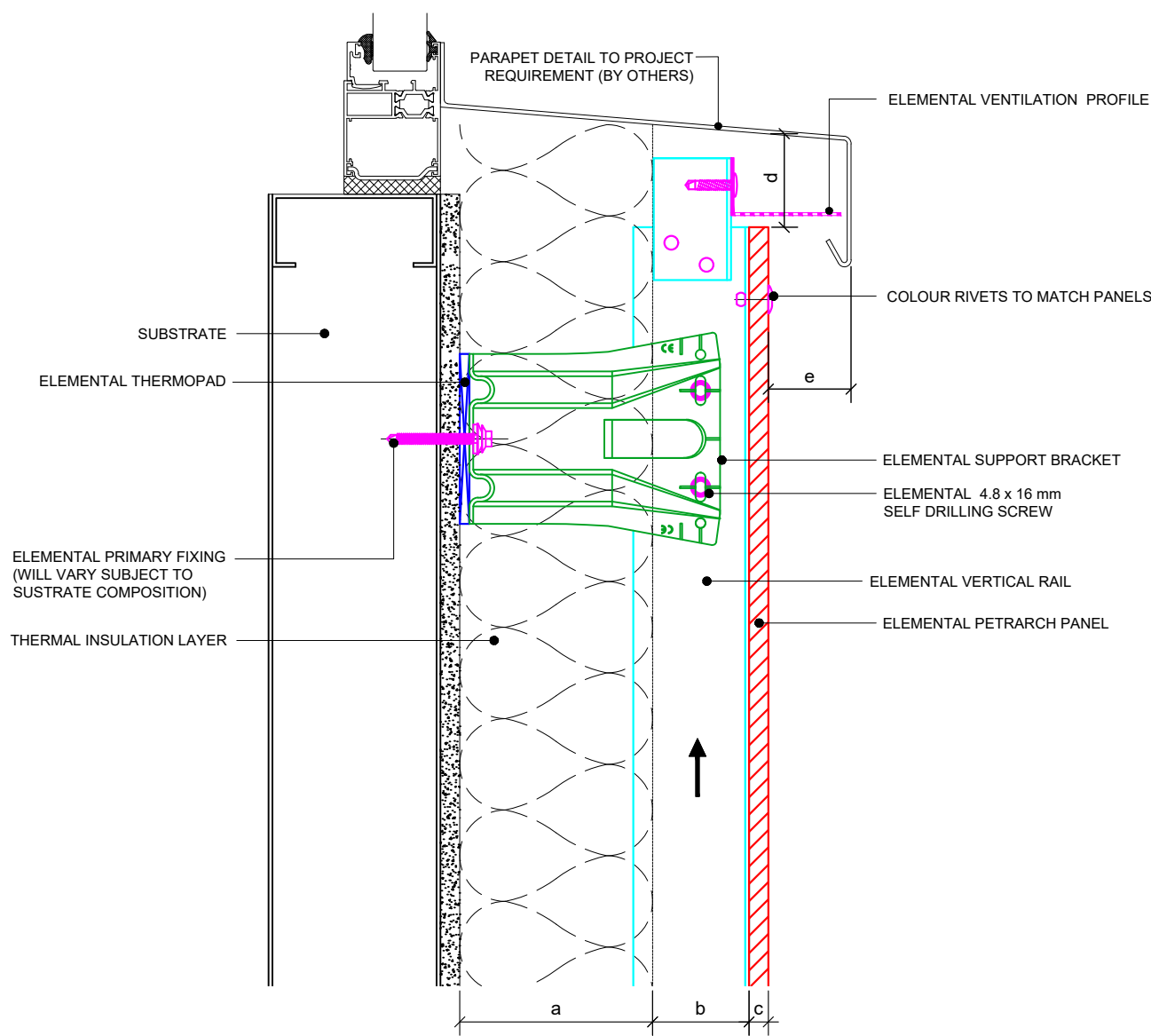
01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title

**ELEMENTAL PETRARCH - FACE FIX
WINDOW CILL DETAIL**

Drawing No.

EL-SB-RP11

System:

**EL-Rivet
Petrarch**

Size:

A4

Scale:

NTS

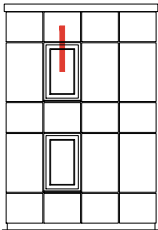
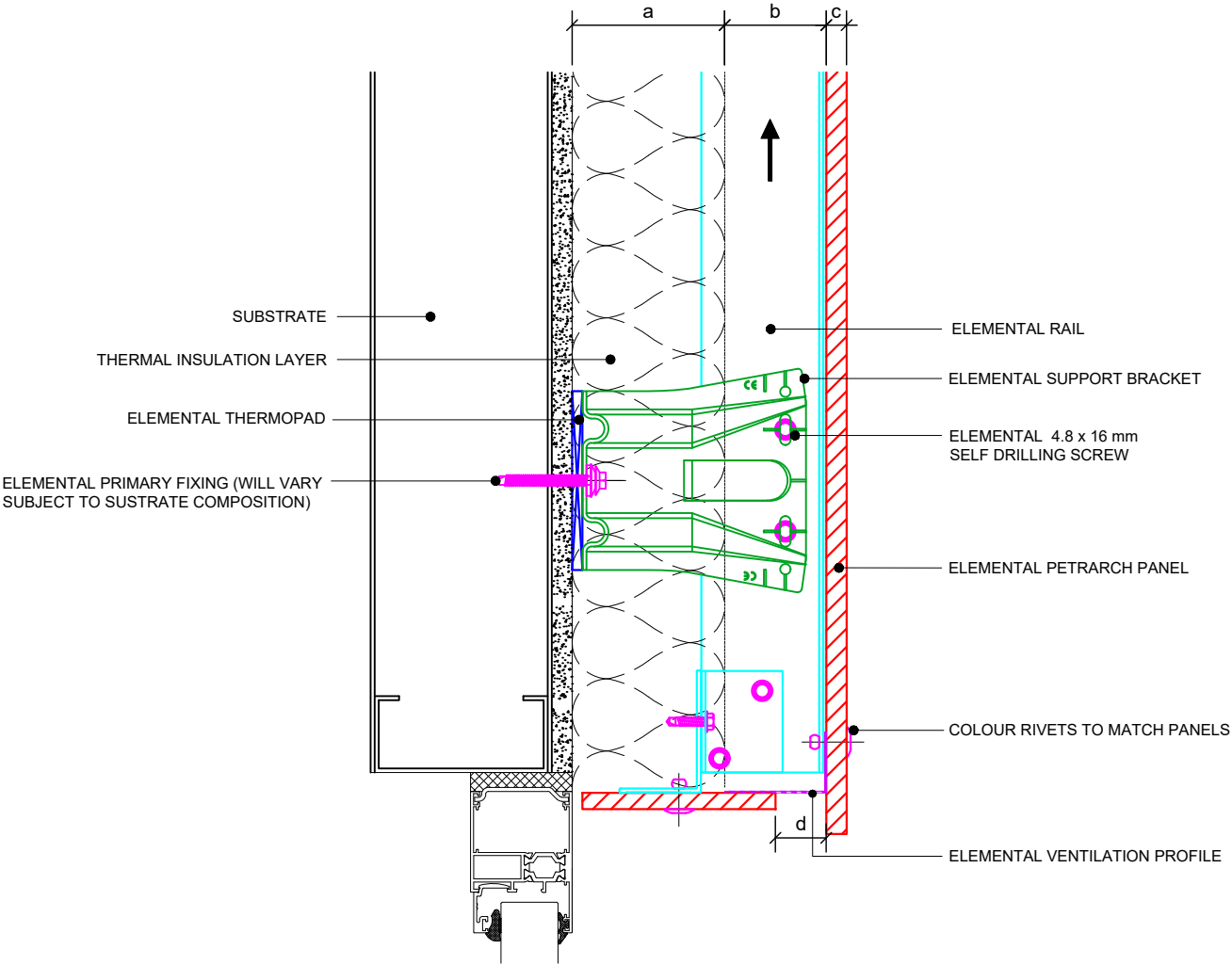
Drawn:

V.C.

Rev.

01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



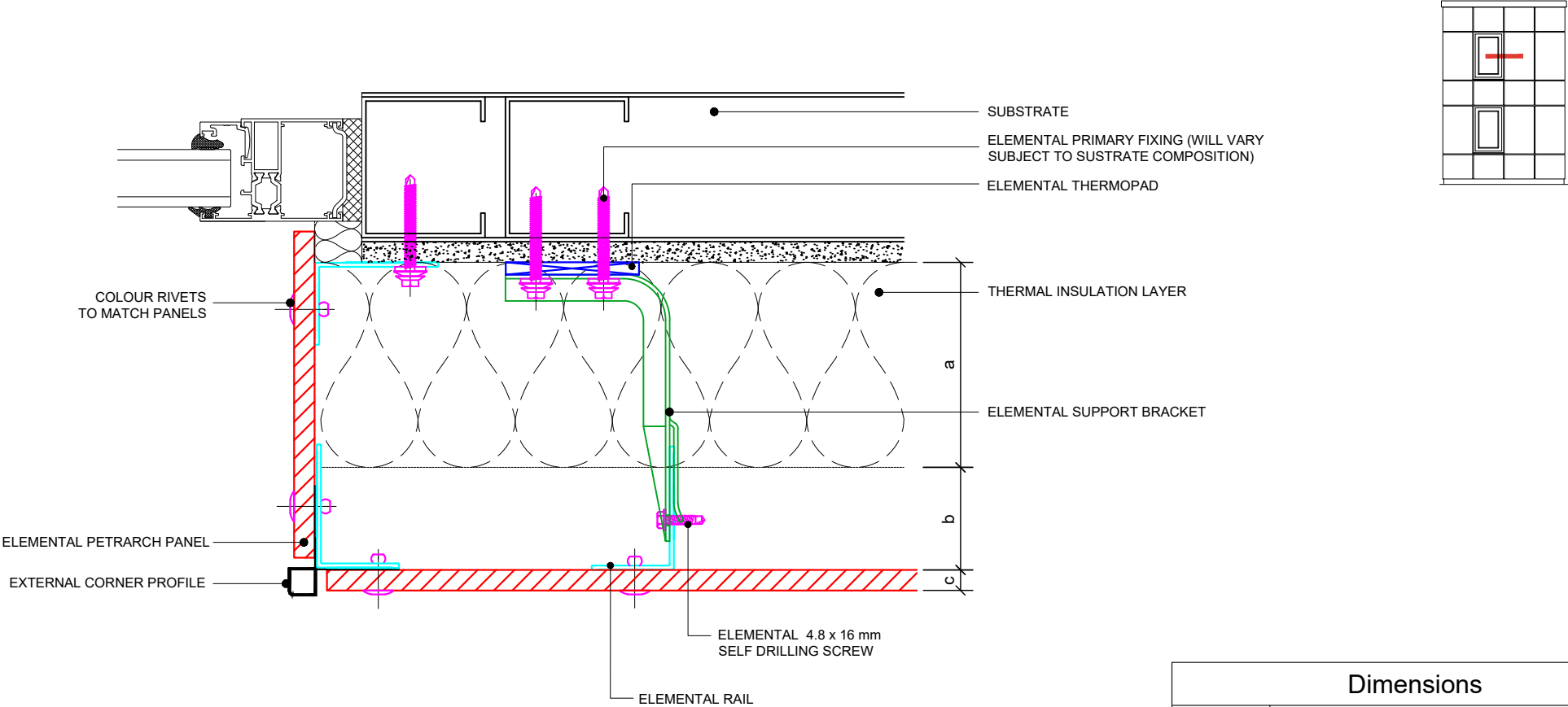
Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Panel nominal thickness
d	Ventilation inlet / outlet gaps
a+b	Clad Zone



Elemental Architectural Cladding Specialists
#29 The Cubes Offices, Beacon South Quarter,
Sandyford
Dublin 18, D18 A264
Phone: +353 (0)1 293 8951
Email: info@elemental.ie

Drawing Title	ELEMENTAL PETRARCH - FACE FIX WINDOW HEAD DETAIL										
Drawing No.	EL-SB-RP12	System:	EL-Rivet Petrarch	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01

These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details 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.



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