

Facade System

Ventilated facade

EL-CB-MG

Elemental-Concrete Bracket-MSF GFRC

GFRC, Glass Fiber Reinforced Concrete

GFRC

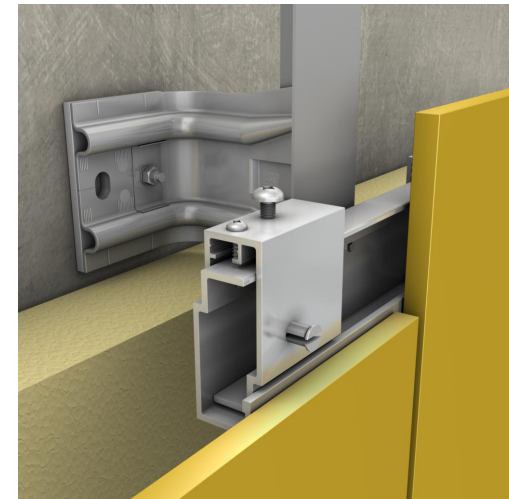
Mechanical Secret Fix onto 2-layers

Metal substructure

Contents:

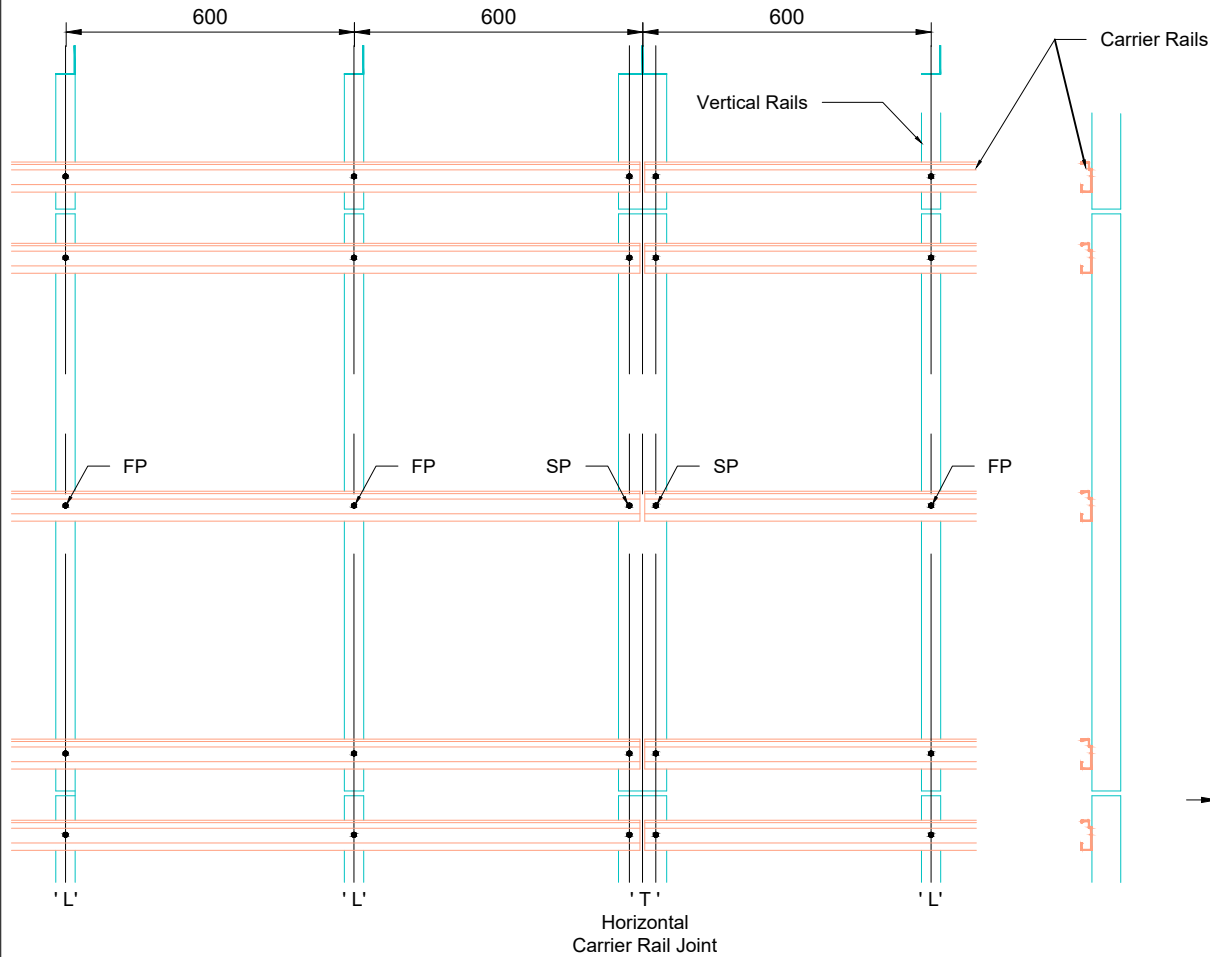
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EL-CB-MG19	WINDOW HEAD DETAIL - CLOSED JOINT OPTION		
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Image for illustration purposes






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Rail Centres

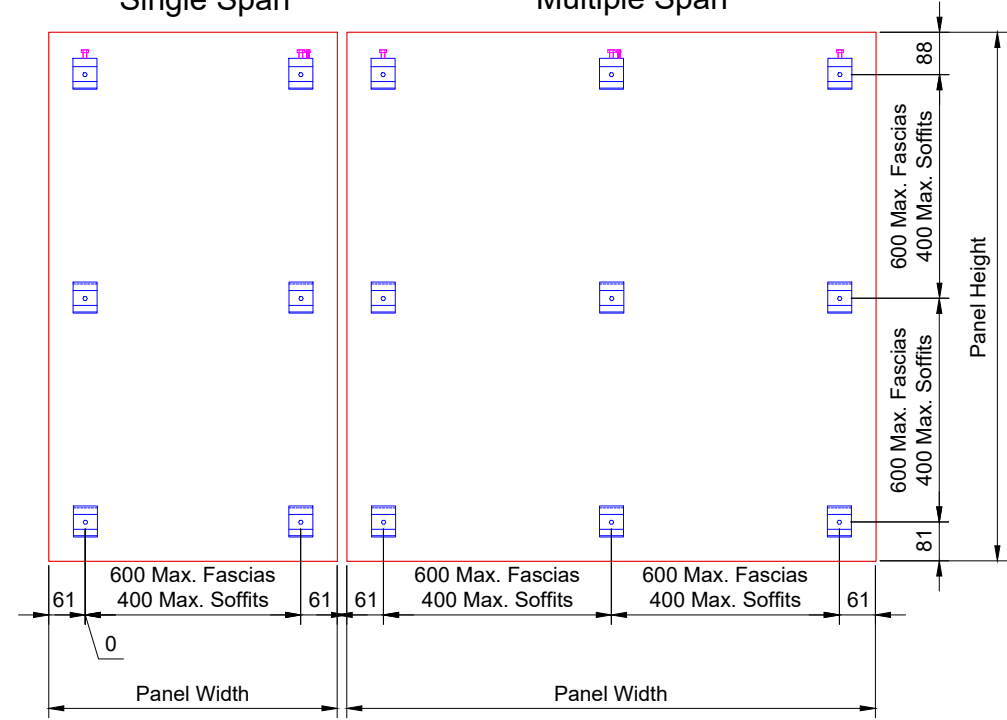


Fixing guidelines

-  Fixed Adjustable Hanger
-  Adjustable Hanger
-  Standard Hanger

Single Span

Multiple Span



Panels Viewed from Rear

The fixing procedure for the horizontal carrier rail in max. 3m lengths is as follows:

- fixing HCR to L rail - all double fixed point (FP)
- fixing HCR ends to T rail - all double sliding point (SP) - HCR **only** drill holes 10mm



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 GFRC - MSF
 SYSTEM LAYOUT**

Drawing No.

EL-CB-MG01

System:

**EL-MSF
 GFRC**

Size:

A4

Scale:

NTS

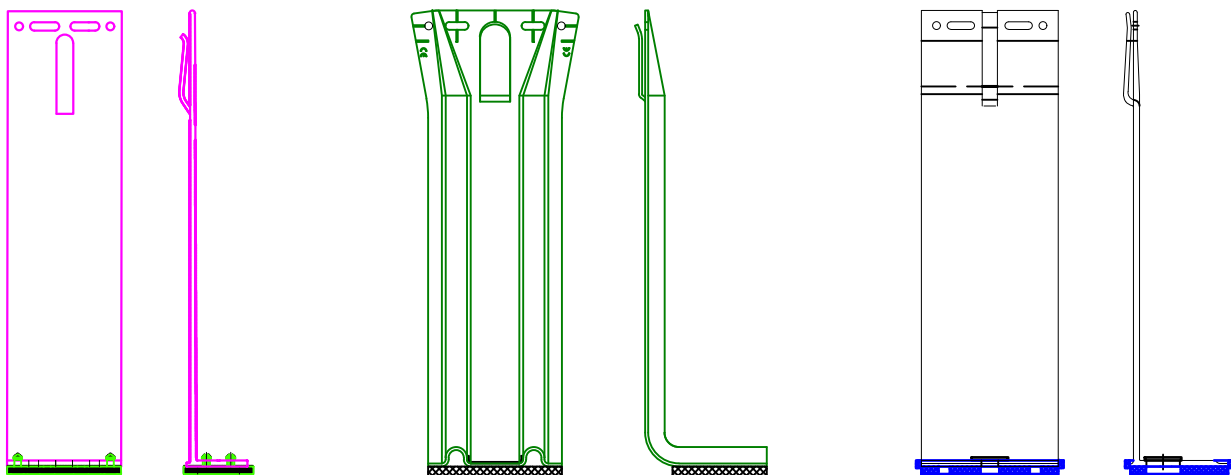
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BRACKET TYPES AVAILABLE FROM ELEMENTAL



SPIDI MAX BRACKETS LENGTH

TOLERANCE COMPENSATION

SLIDING POINT

FIXED POINT

SPIDI-max wall bracket			SPIDI-max wall bracket		
description	length L		description	length L	
SPIDI max 65/80	65		SPIDI max 480/80	480	
SPIDI max 85/80	85		SPIDI max 510/80	510	
SPIDI max 110/80	110		SPIDI max 540/80	540	
SPIDI max 135/80	135		SPIDI max 570/80	570	
SPIDI max 160/80	160		SPIDI max 600/80	600	
SPIDI max 170/80	170		SPIDI max 630/80	630	
SPIDI max 185/80	185		SPIDI max 660/80	660	
SPIDI max 210/80	210		SPIDI max 690/80	690	
SPIDI max 240/80	240		SPIDI max 720/80	720	
SPIDI max 270/80	270		SPIDI max 750/80	750	
SPIDI max 300/80	300		SPIDI max 780/80	780	
SPIDI max 330/80	330		SPIDI max 810/80	810	
SPIDI max 360/80	360		SPIDI max 840/80	840	
SPIDI max 390/80	390		SPIDI max 870/80	870	
SPIDI max 420/80	420		SPIDI max 900/80	900	
SPIDI max 450/80	450		special length	on request	



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

Drawing Title

BRACKET TYPES AVAILABLE

Drawing No.

EL-CB-MG02

System:

**EL-MSF
GFRC**

Size:

A4

Scale:

NTS

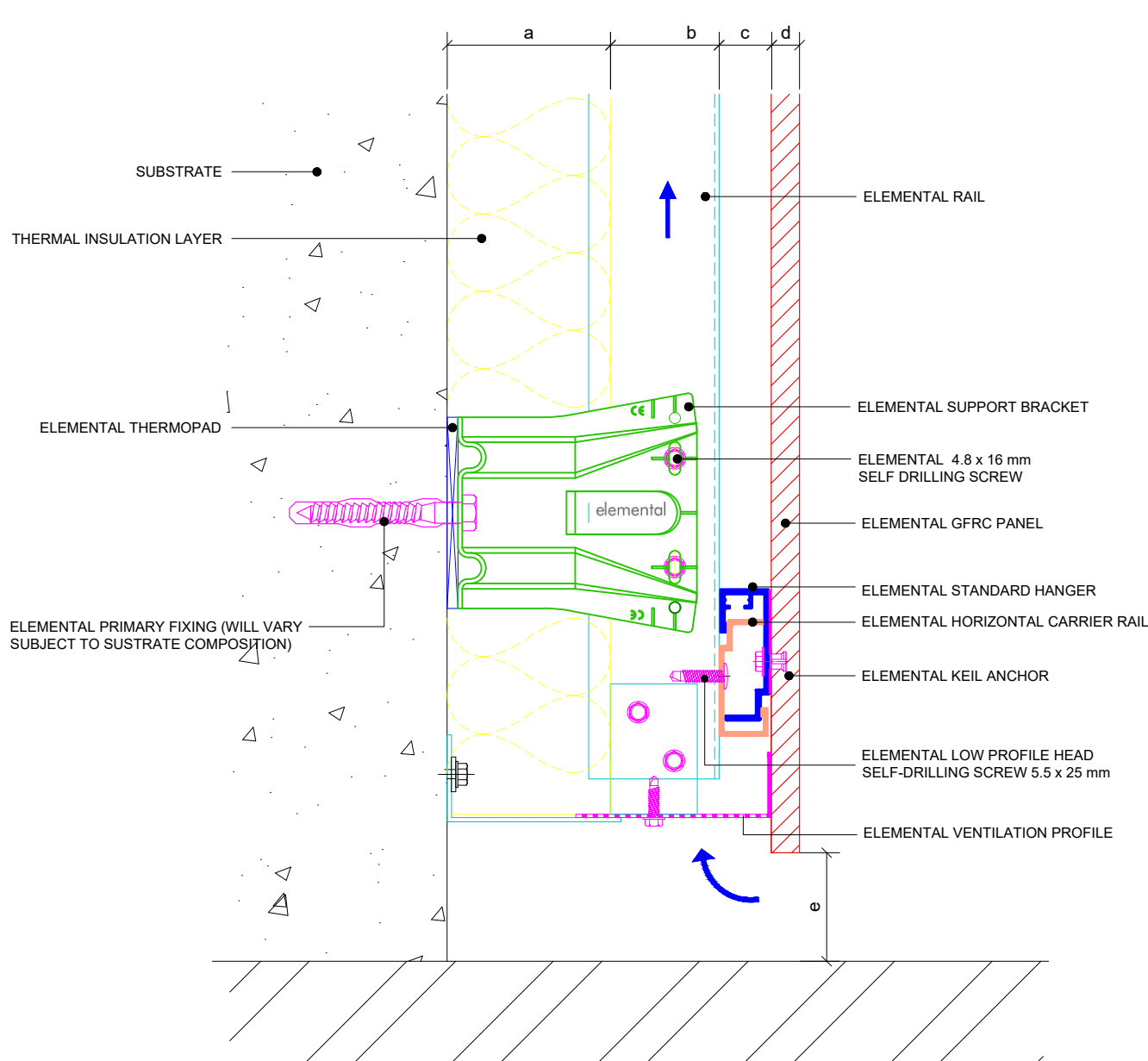
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Distance min. 50mm
a+b+c	Clad Zone



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 #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 GFRF - MSF
 BASE DETAIL**

Drawing No.

EL-CB-MG03

System:

**EL-MSF
 GFRF**

Size:

A4

Scale:

NTS

Drawn:

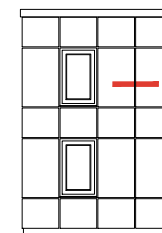
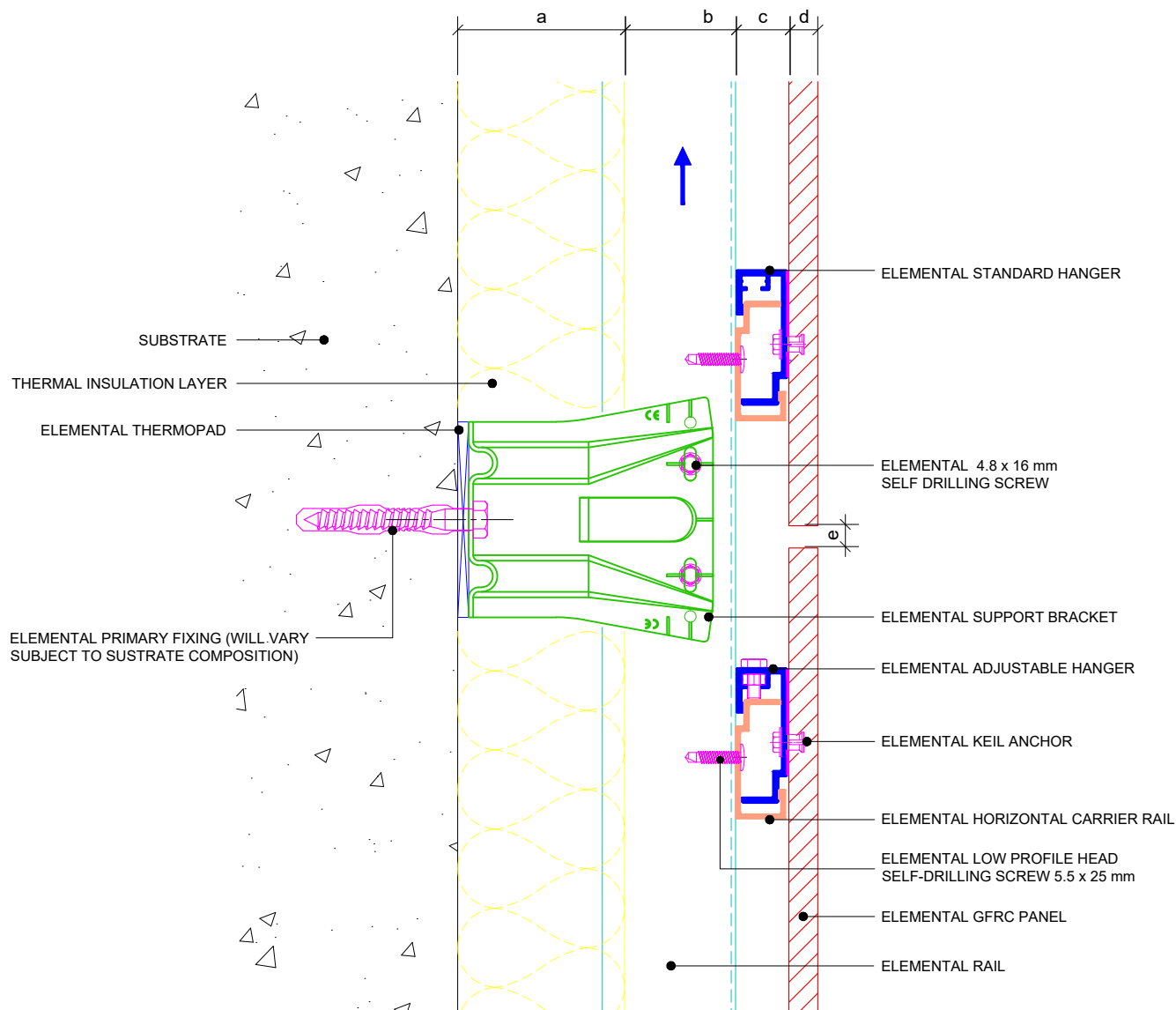
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Panel joint - min 10mm
a+b+c	Clad Zone



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 #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 GFRP - MSF
 HORIZONTAL JOINT DETAIL OPEN OPTION**

Drawing No.

EL-CB-MG04

System:

**EL-MSF
 GFRP**

Size:

A4

Scale:

NTS

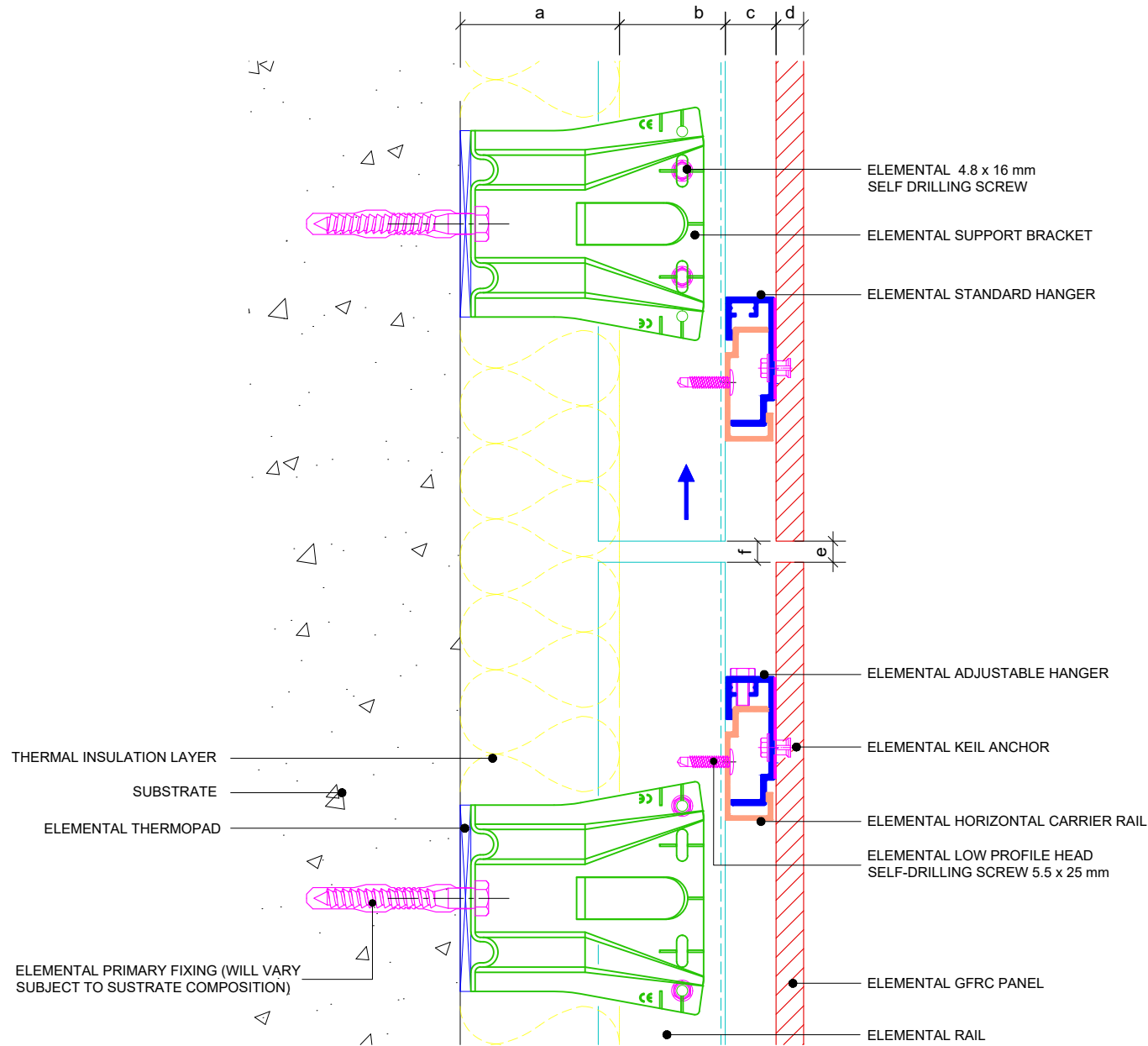
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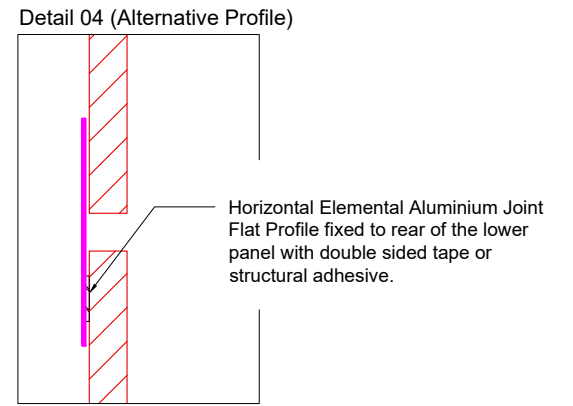
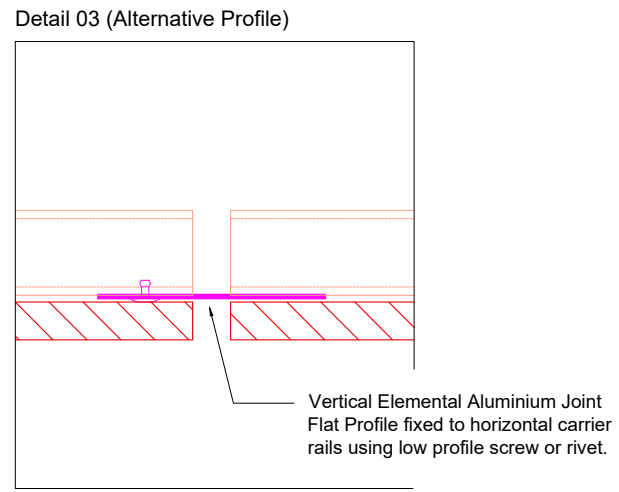
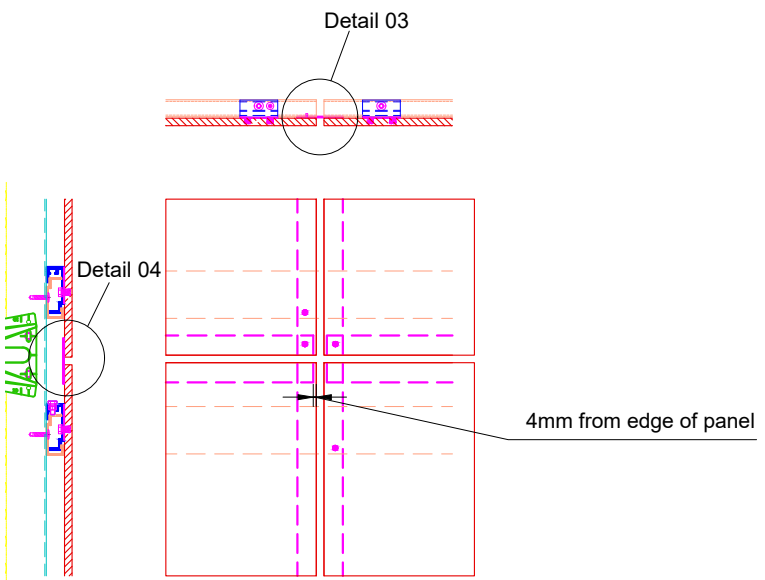
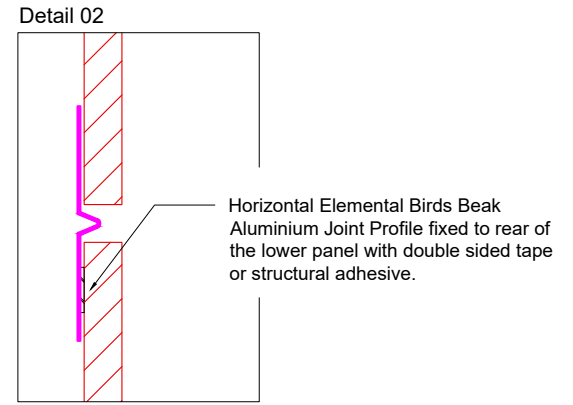
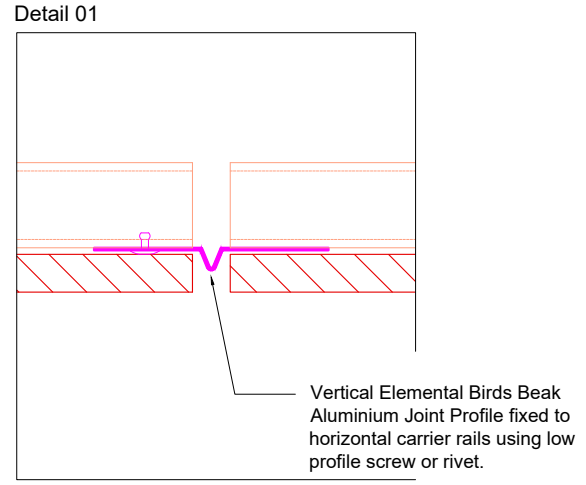
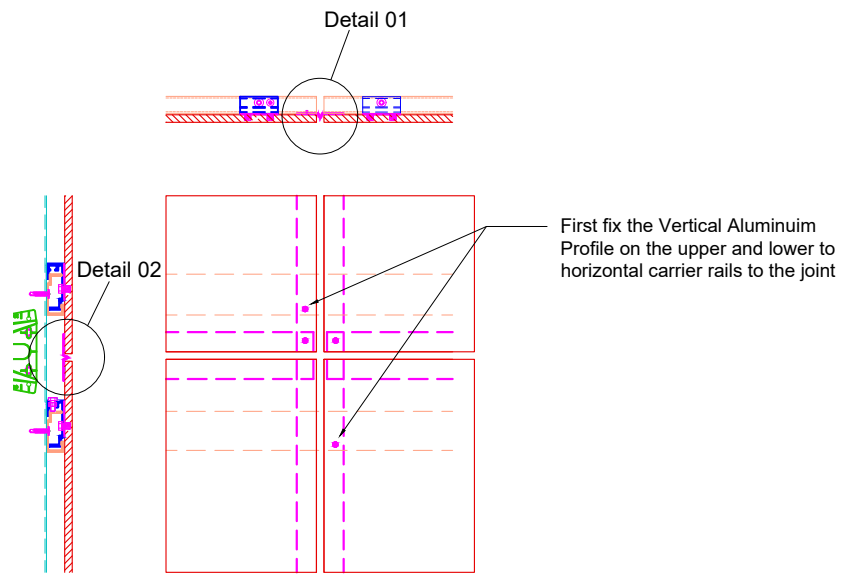
Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Panel joint - min 10mm
f	Rail joint - Min 10mm
a+b+c	Clad Zone

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 #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 GFRC - MSF - RAIL SUPPORT AND HORIZONTAL PANEL JOINT DETAIL										
Drawing No.	EL-CB-MG05	System:	EL-MSF GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01

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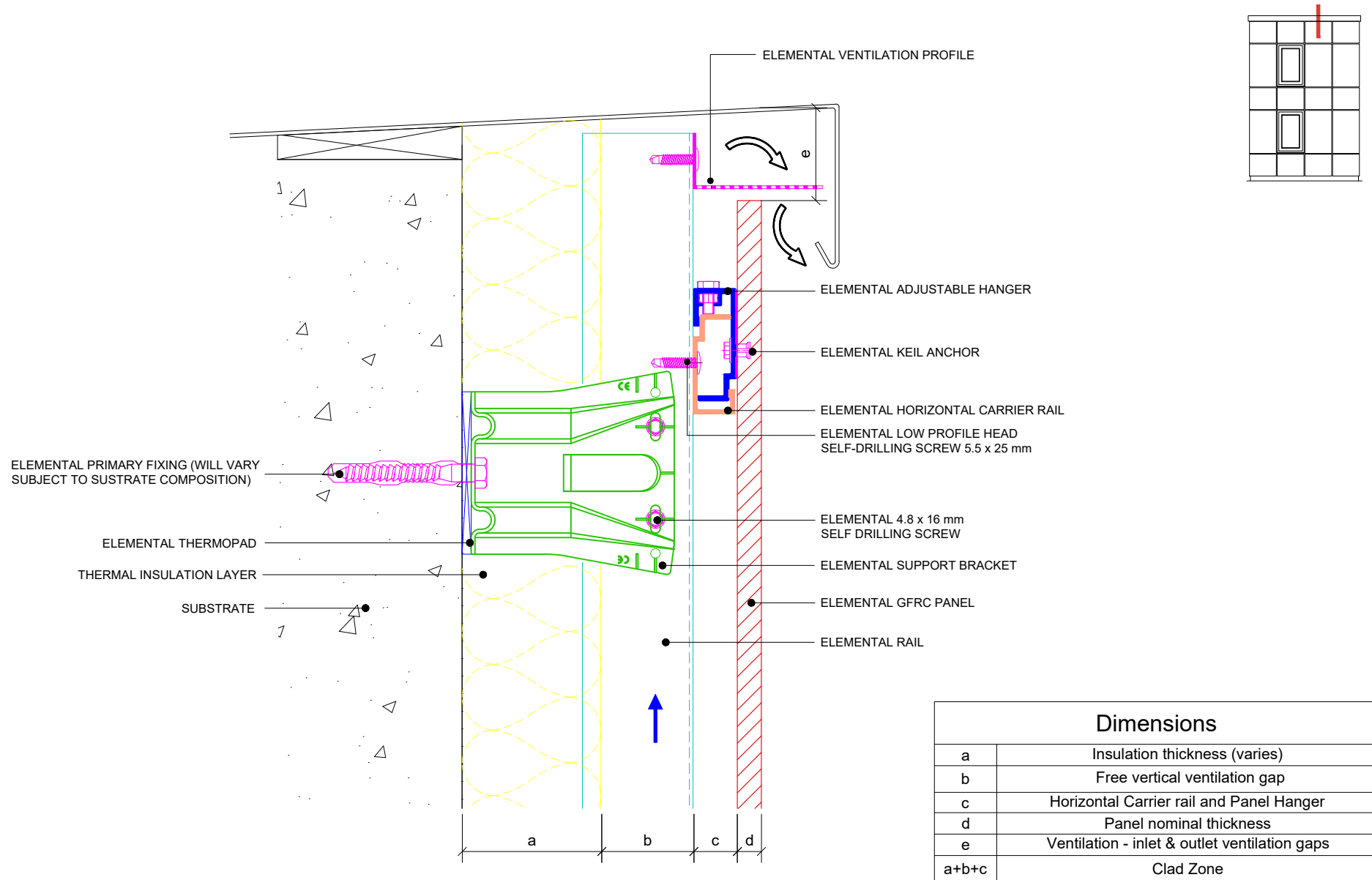


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Drawing Title	ELEMENTAL PETRARCH - MSF JOINT PROFILE DETAILS - CLOSED OPTIONS										
Drawing No.	EL-CB-MG06	System:	EL-MSF GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Ventilation - inlet & outlet ventilation gaps
a+b+c	Clad Zone



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 Sandyford
 Dublin 18, D18 A264
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Drawing Title

**ELEMENTAL GFRP - MSF
 GENERIC PARAPET DETAIL**

Drawing No.

EL-CB-MG07

System:

**EL-MSF
 GFRP**

Size:

A4

Scale:

NTS

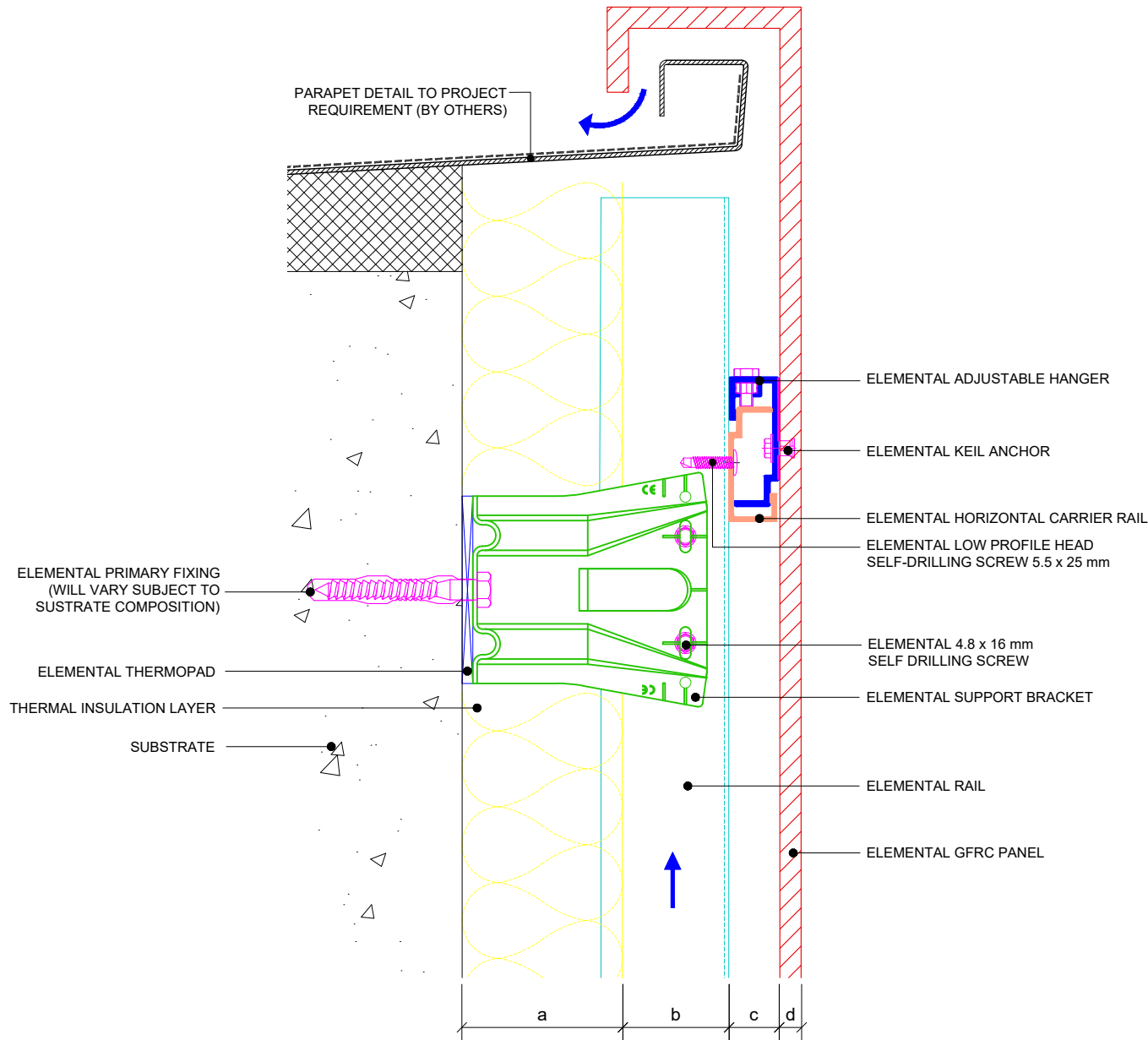
Drawn:

V.C.

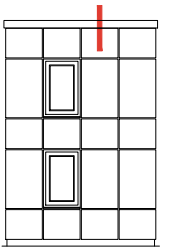
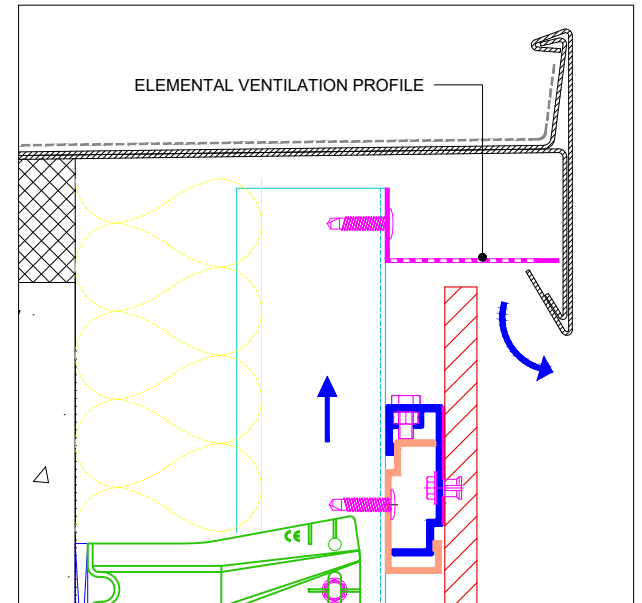
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PARAPET OPTION



Dimensions

a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Ventilation - inlet & outlet ventilation gaps
a+b+c	Clad Zone



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

Drawing Title

**ELEMENTAL GFR - MSF
 PARAPET DETAILS OPTIONS**

Drawing No.

EL-CB-MG08

System:

**EL-MSF
 GFR**

Size:

A4

Scale:

NTS

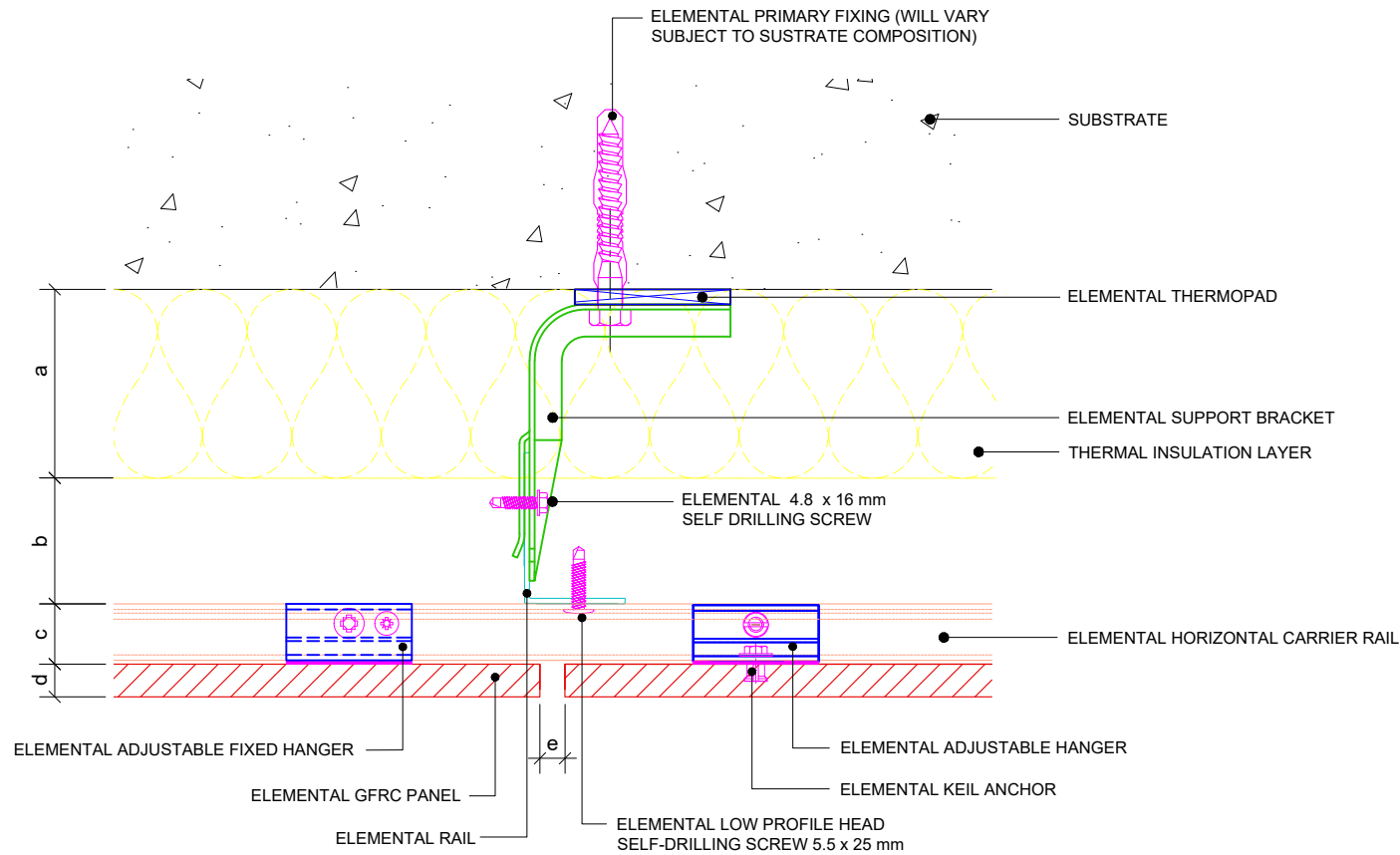
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Panel joint - min 10mm
a+b+c	Clad Zone



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 Sandyford
 Dublin 18, D18 A264
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Drawing Title

**ELEMENTAL GFRP - MSF
 VERTICAL JOINT DETAIL - OPEN OPTION**

Drawing No.

EL-CB-MG09

System:

**EL-MSF
 GFRP**

Size:

A4

Scale:

NTS

Drawn:

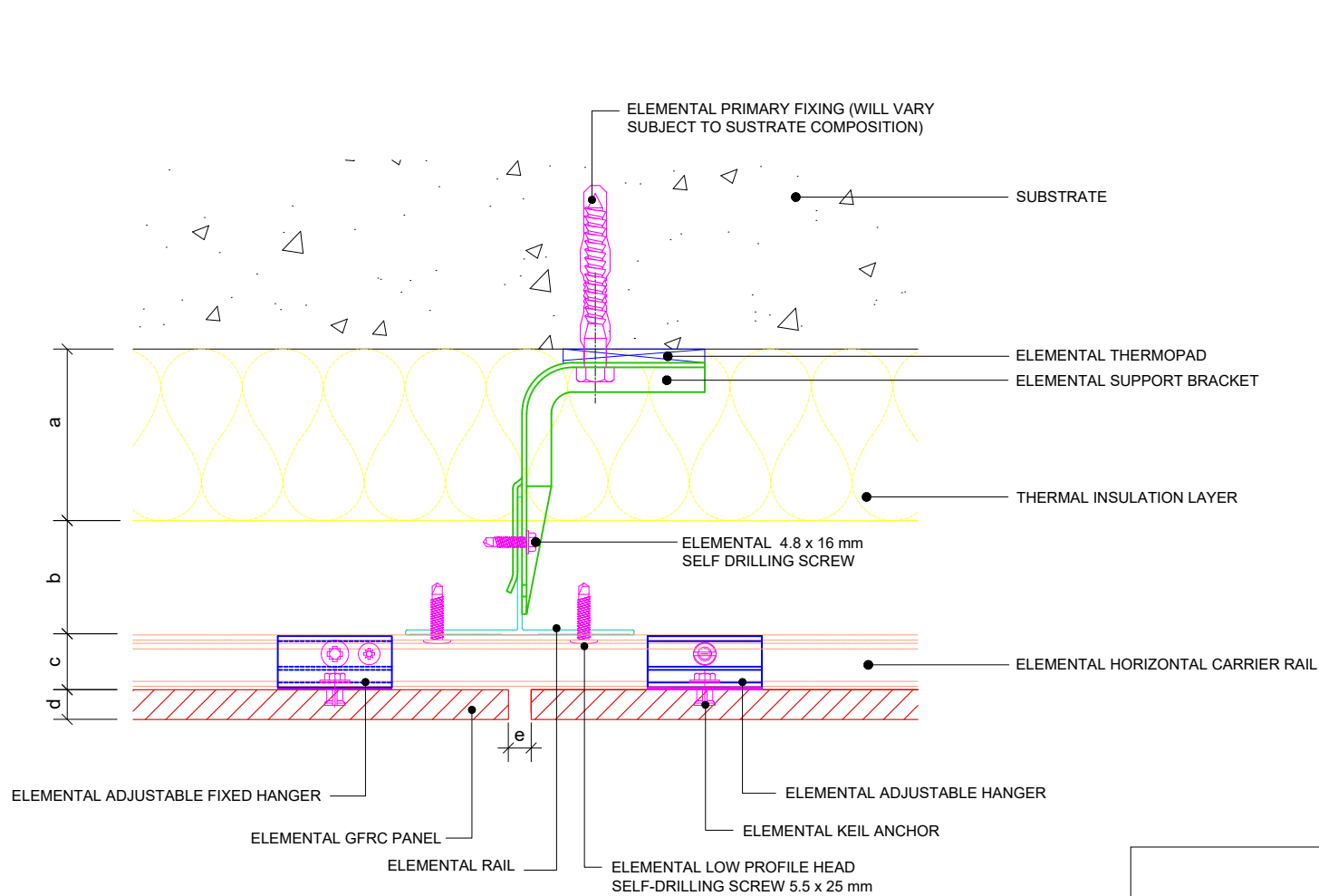
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Panel joint - min 10mm
a+b+c	Clad Zone



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 #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 GFRG - MSF
 RAIL SUPPORT AND VERTICAL JOINT DETAIL**

Drawing No.

EL-CB-MG10

System:

**EL-MSF
 GFRG**

Size:

A4

Scale:

NTS

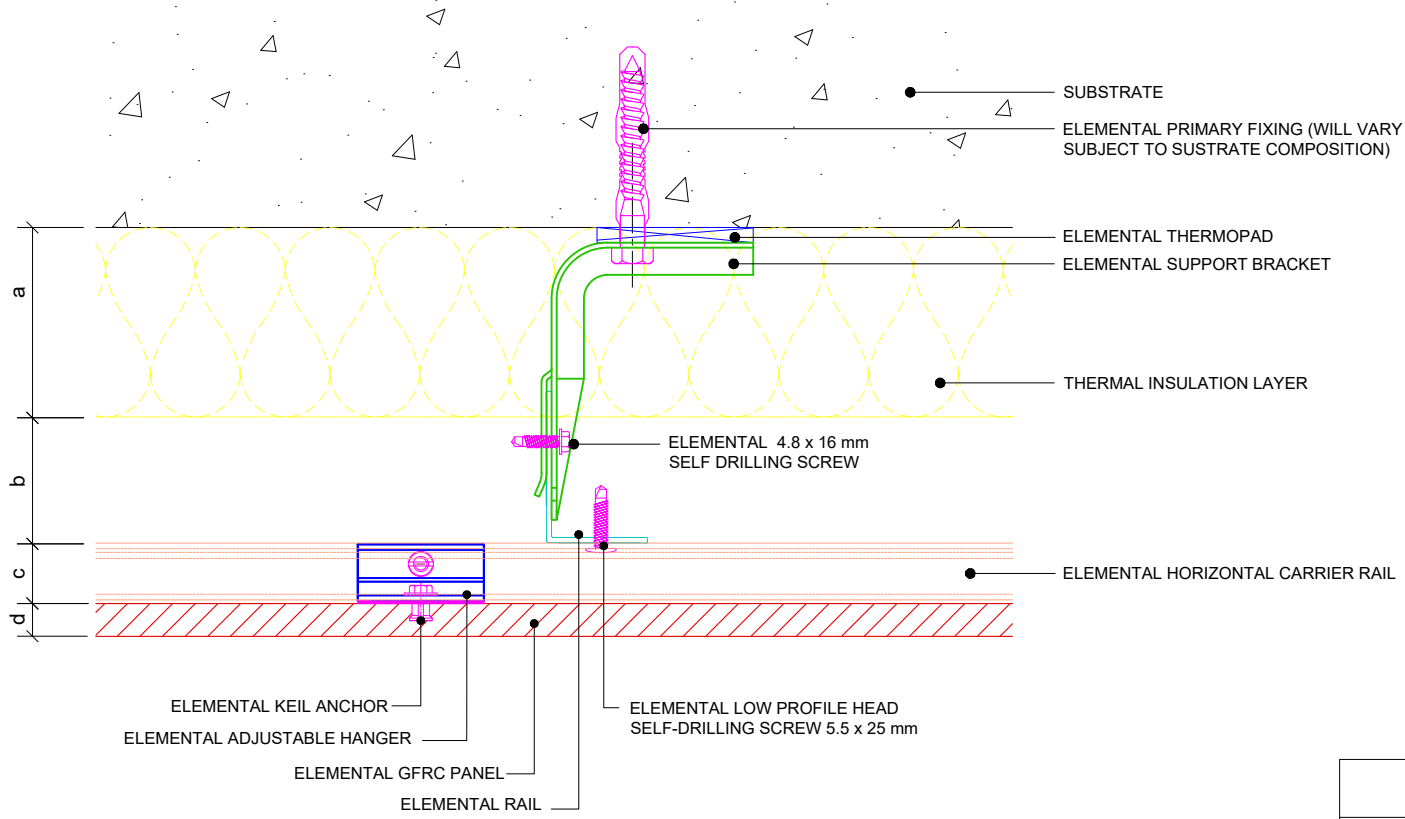
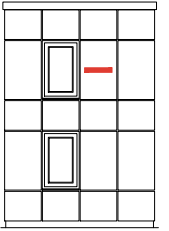
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
a+b+c	Clad Zone

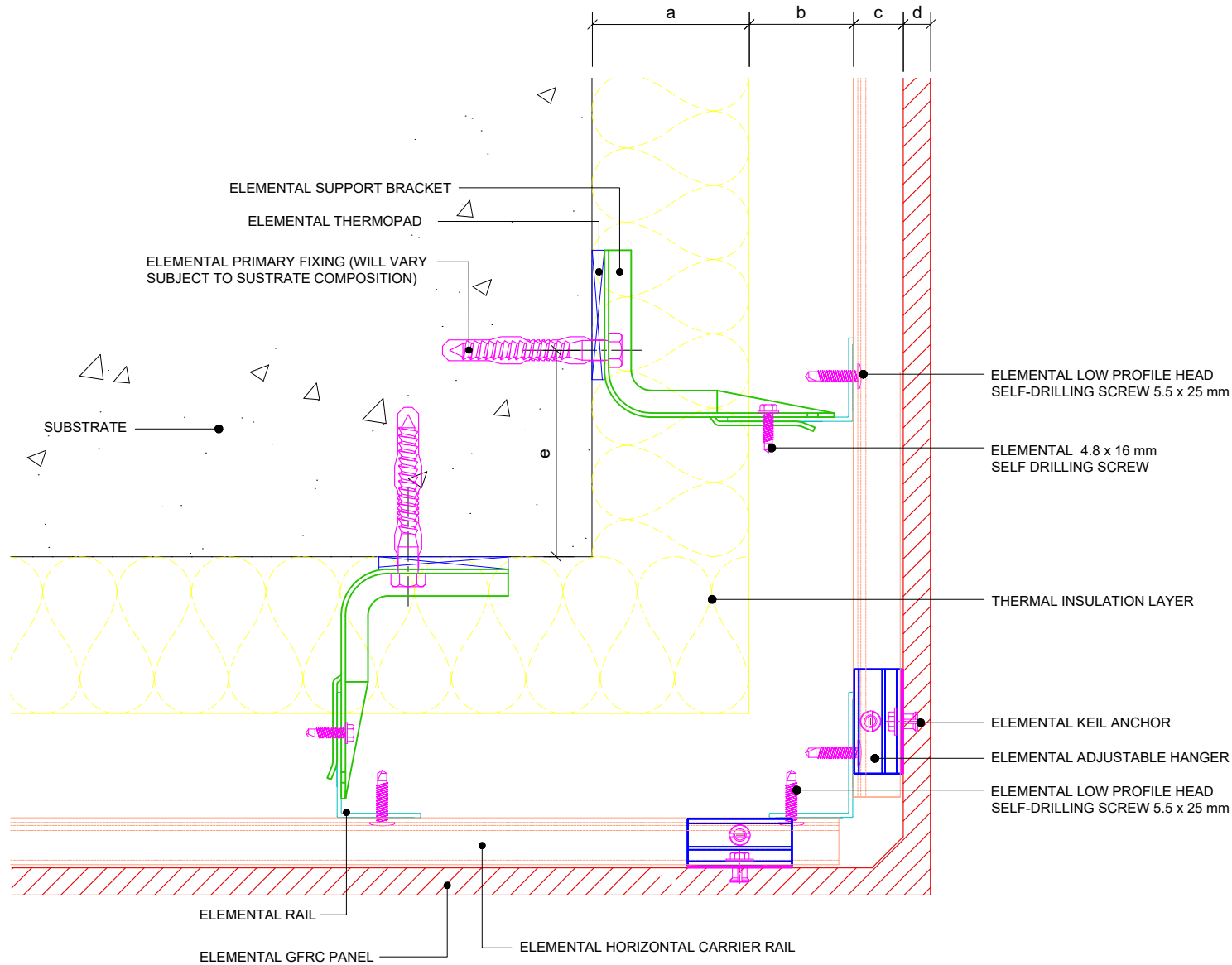


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 Sandyford
 Dublin 18, D18 A264
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Drawing Title	ELEMENTAL GFRc - MSF - INTERMEDIATE PANEL SUPPORT DETAIL										
Drawing No.	EL-CB-MG11	System:	EL-MSF GFRc	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Min. recommended 100mm
a+b+c	Clad Zone



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

Drawing Title

**ELEMENTAL GFRG - MSF
 EXTERNAL CORNER - CLOSED JOINT OPTION**

Drawing No.

EL-CB-MG12

System:

**EL-MSF
 GFRG**

Size:

A4

Scale:

NTS

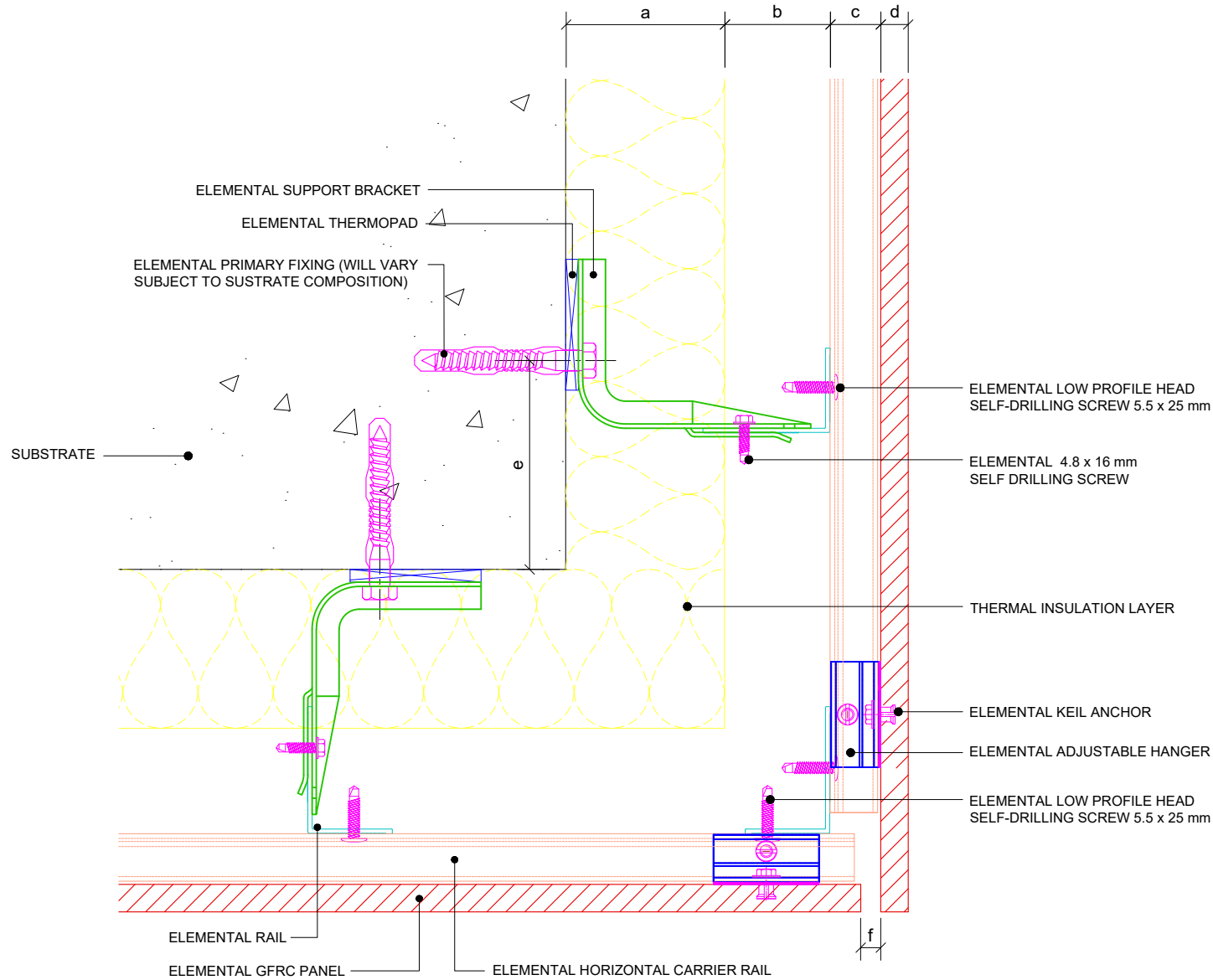
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Min. recommended 100mm
f	Panel joint - 10mm
a+b+c	Clad Zone



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

Drawing Title

**ELEMENTAL GFRG - MSF
 EXTERNAL CORNER - OPEN JOINT OPTION**

Drawing No.

EL-CB-MG13

System:

**EL-MSF
 GFRG**

Size:

A4

Scale:

NTS

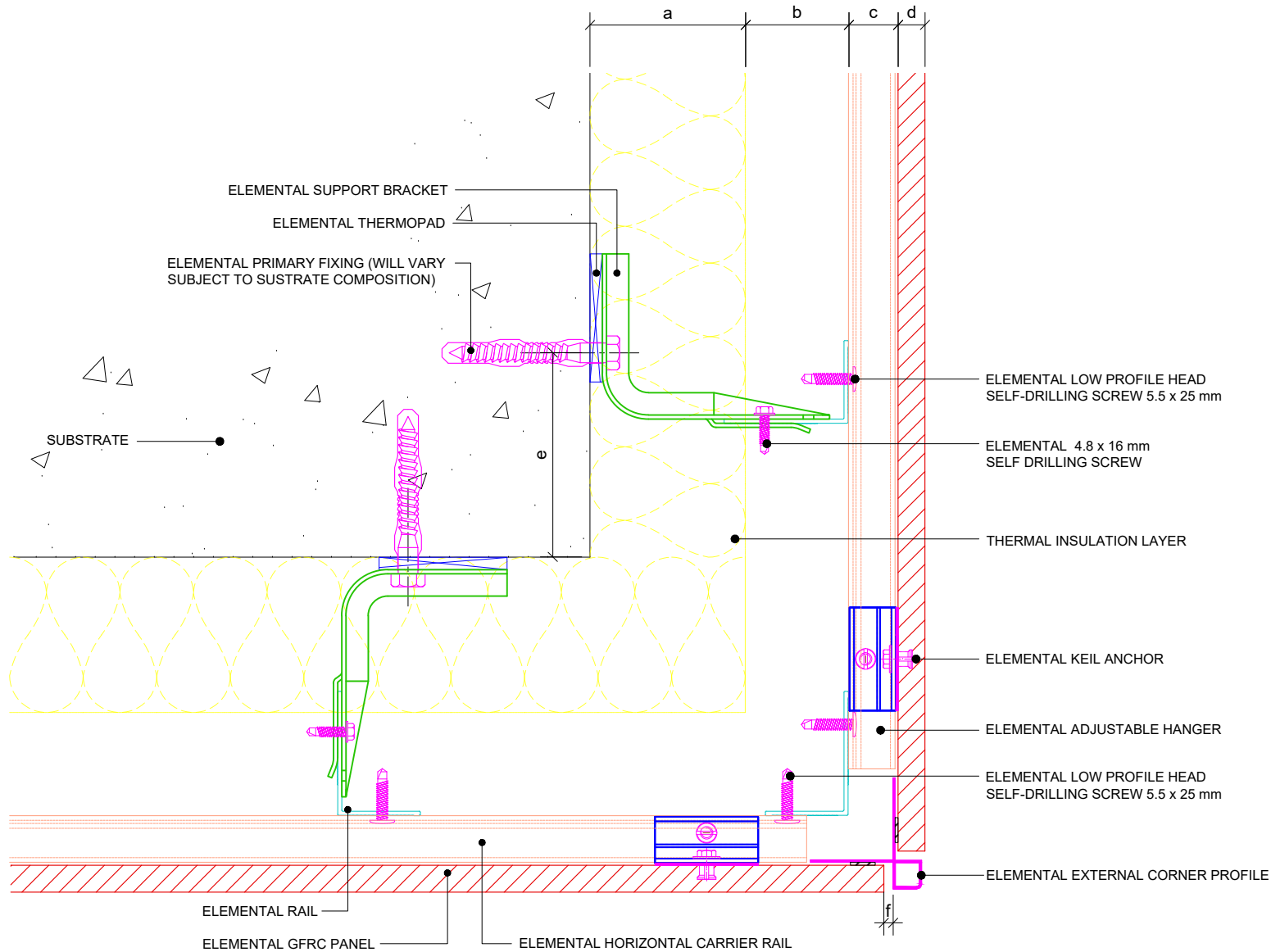
Drawn:

V.C.

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Min. recommended 100mm
f	Minimum 5mm
a+b+c	Clad Zone



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 Sandyford
 Dublin 18, D18 A264
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 Email: info@elemental.ie

Drawing Title

**ELEMENTAL GFRG - MSF
 EXTERNAL CORNER - PROFILE OPTION**

Drawing No.

EL-CB-MG14

System:

**EL-MSF
 GFRG**

Size:

A4

Scale:

NTS

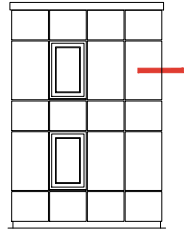
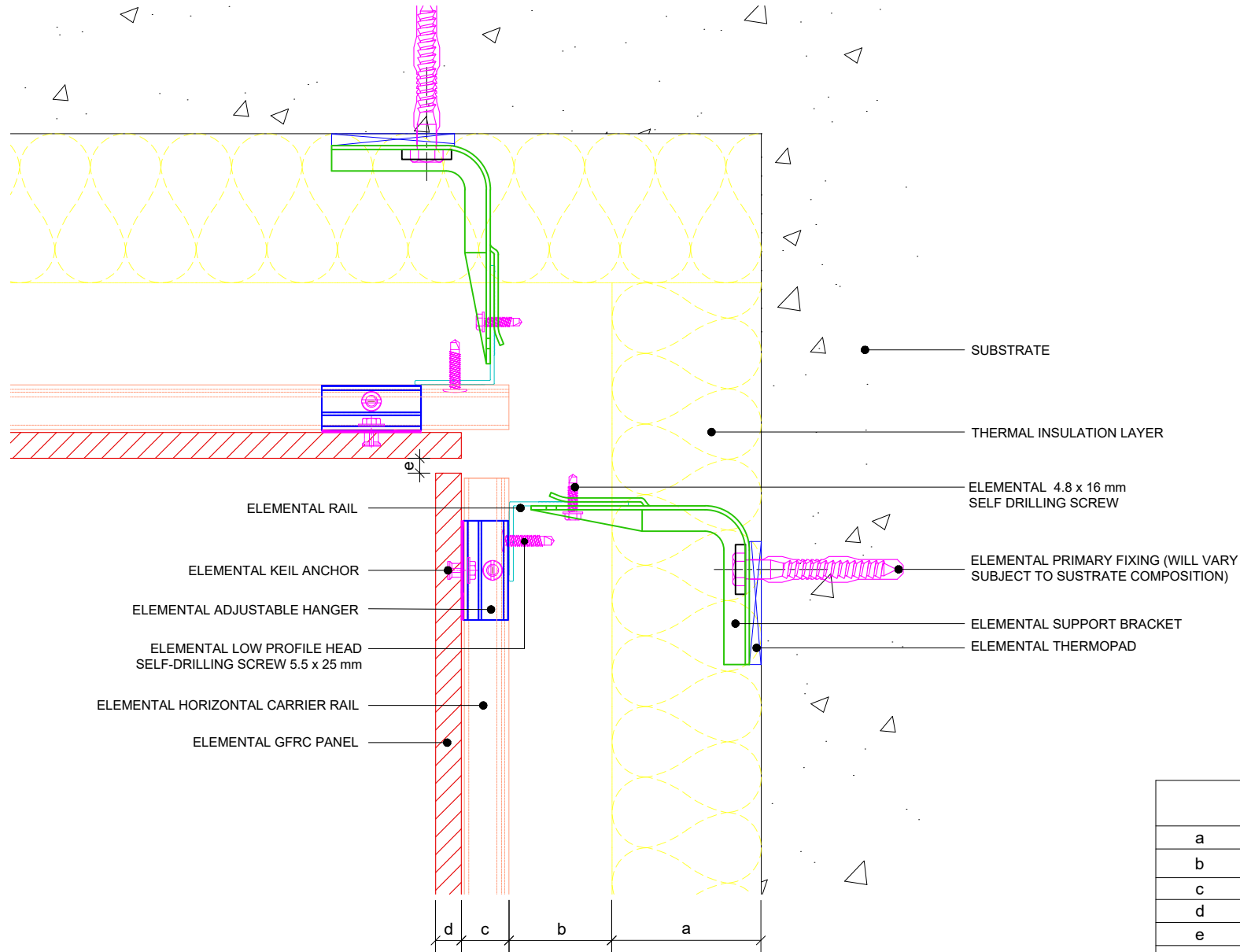
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Recommended 10mm
a+b+c	Clad Zone



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 #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 GFRC - MSF
 INTERNAL CORNER - OPEN JOINT OPTION**

Drawing No.

EL-CB-MG15

System:

**EL-MSF
 GFRC**

Size:

A4

Scale:

NTS

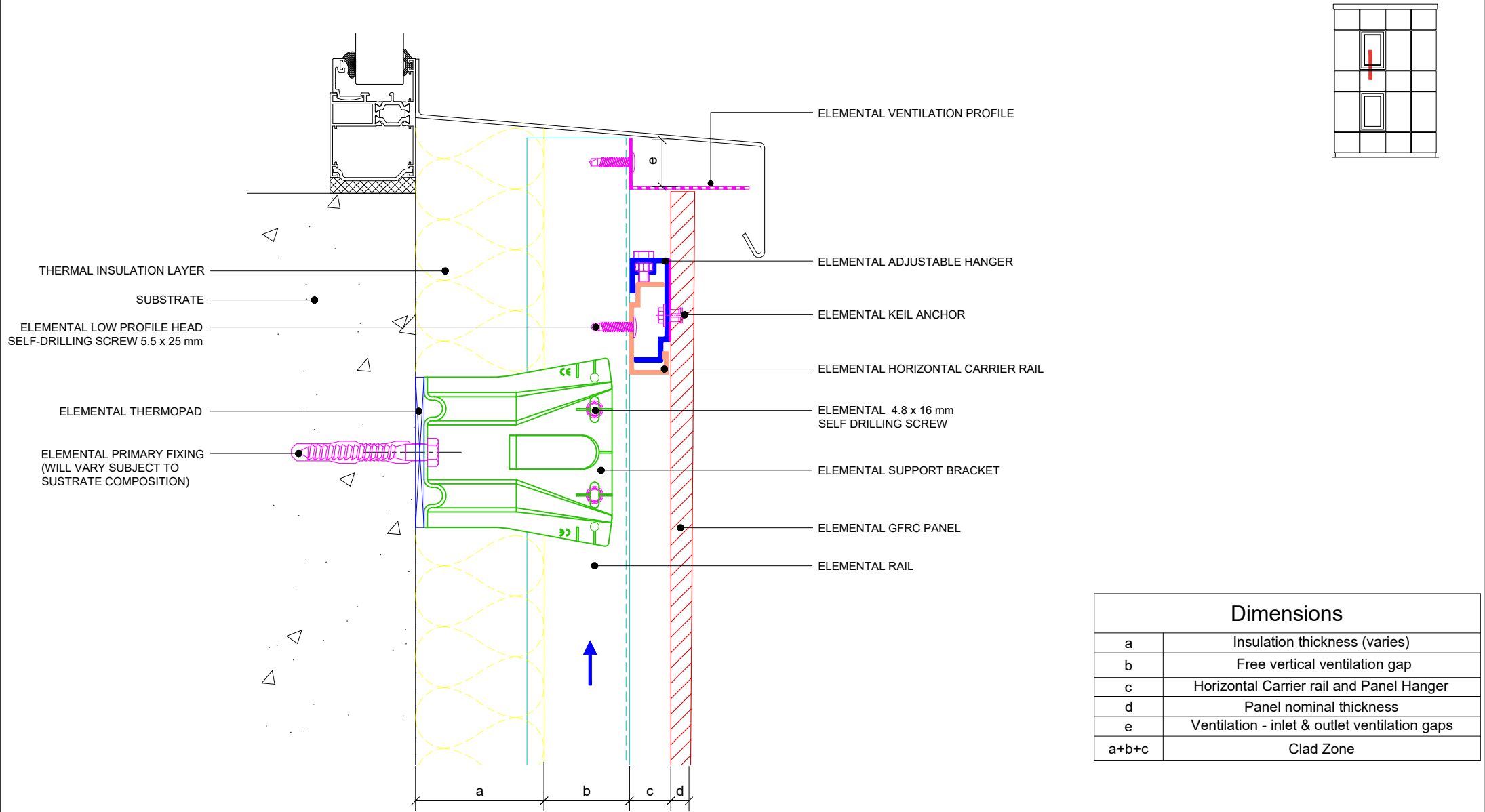
Drawn:

V.C.

Rev.

01

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	Ventilation - inlet & outlet ventilation gaps
a+b+c	Clad Zone



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 #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 GFRc - MSF
 GENERIC WINDOW CILL DETAIL**

Drawing No.

EL-CB-MG16

System:

**EL-MSF
 GFRc**

Size:

A4

Scale:

NTS

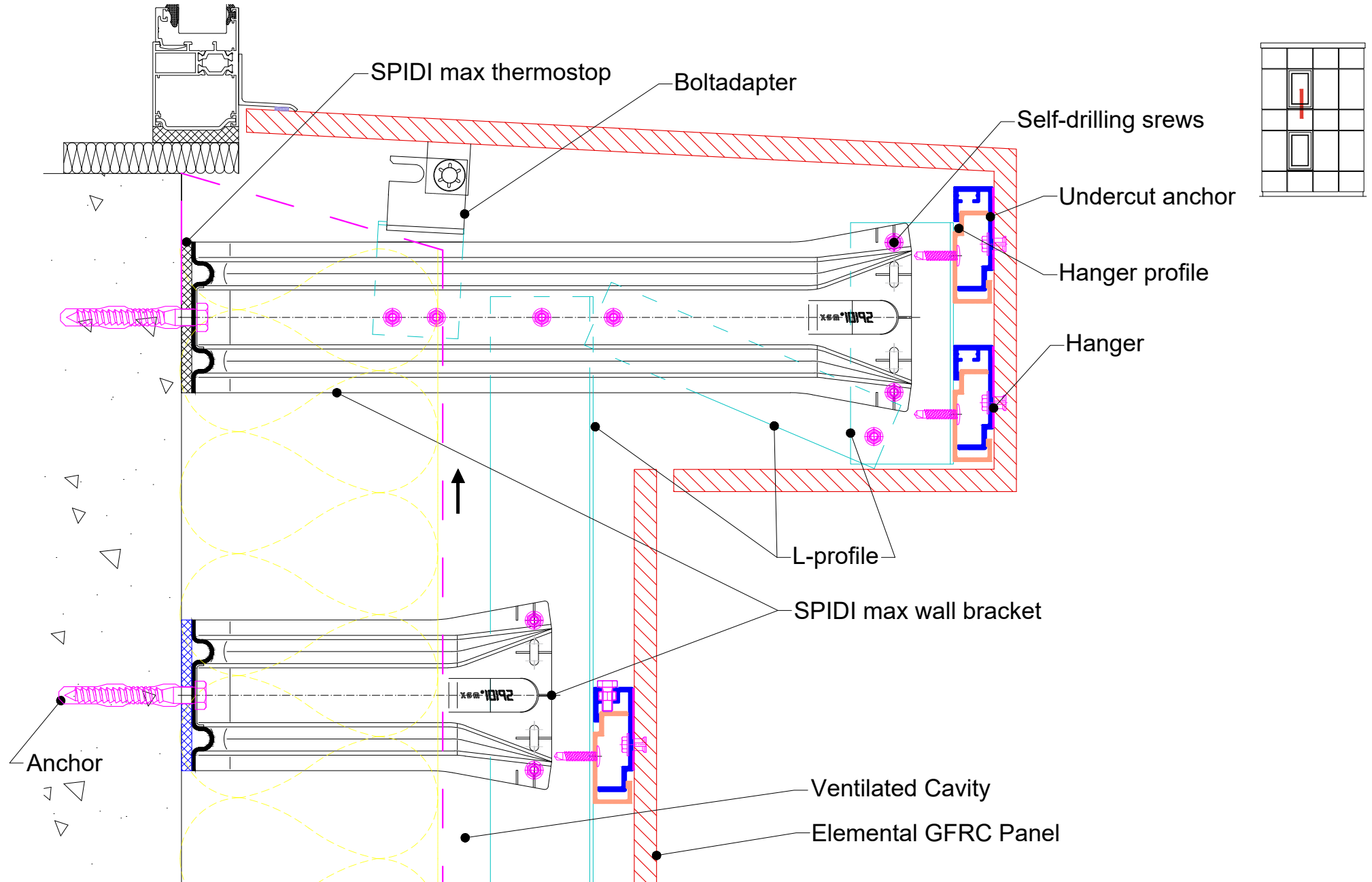
Drawn:

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 Sandyford
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Drawing Title

ELEMENTAL GFRC - MSF
GENERIC WINDOW CILL DETAIL-COMPLETE PIECE OPTION

Drawing No.

EL-CB-MG17

System:

EL-MSF
 GFRC

Size:

A4

Scale:

NTS

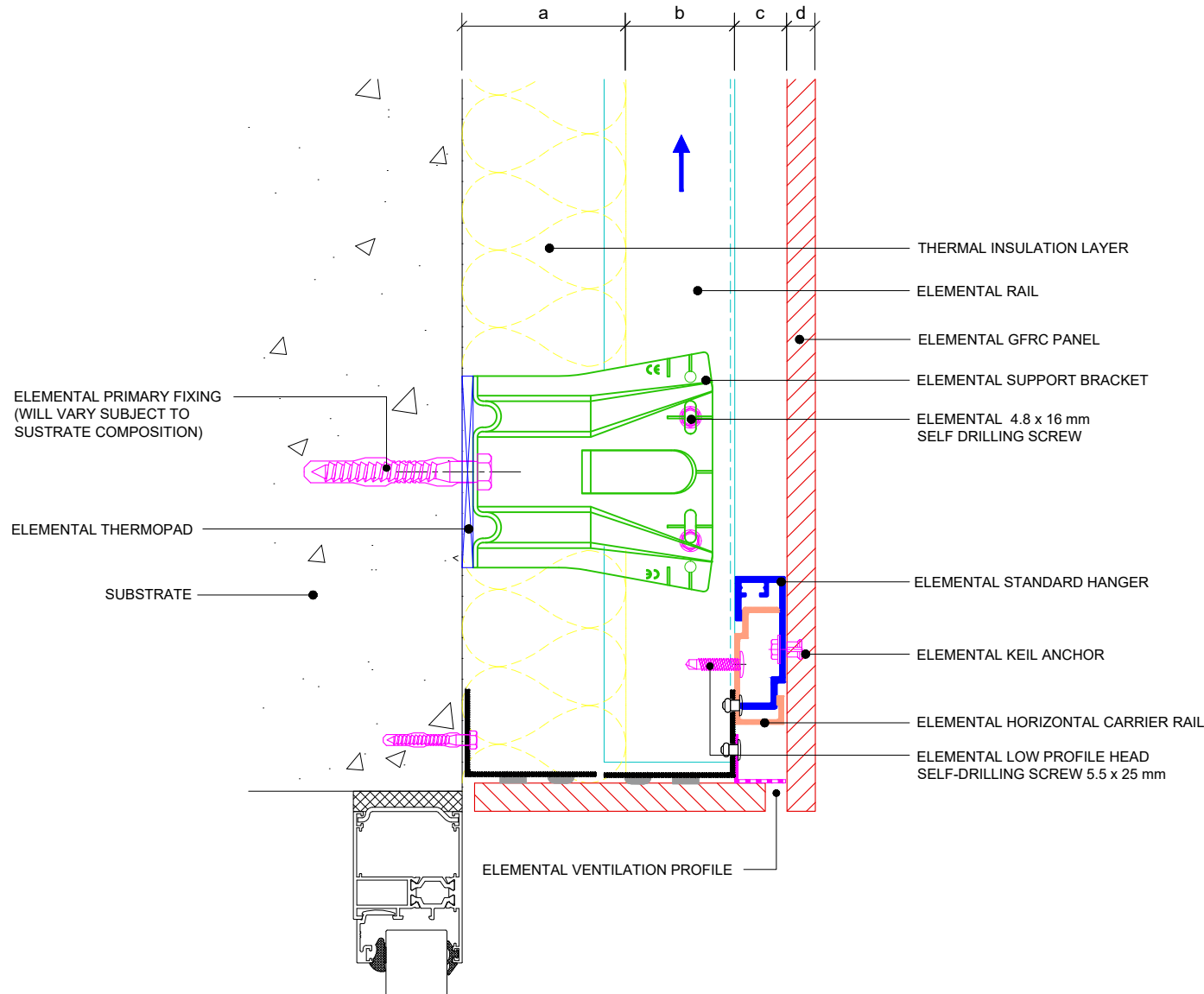
Drawn:

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ELEMENTAL PRIMARY FIXING
(WILL VARY SUBJECT TO
SUBSTRATE COMPOSITION)

ELEMENTAL THERMOPAD

SUBSTRATE

THERMAL INSULATION LAYER

ELEMENTAL RAIL

ELEMENTAL GFRG PANEL

ELEMENTAL SUPPORT BRACKET

ELEMENTAL 4.8 x 16 mm
SELF DRILLING SCREW

ELEMENTAL STANDARD HANGER

ELEMENTAL KEIL ANCHOR

ELEMENTAL HORIZONTAL CARRIER RAIL

ELEMENTAL LOW PROFILE HEAD
SELF-DRILLING SCREW 5.5 x 25 mm

ELEMENTAL VENTILATION PROFILE

Dimensions

a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
a+b+c	Clad Zone



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Drawing Title

**ELEMENTAL GFRG - MSF
 WINDOW HEAD DETAIL - OPEN JOINT OPTION**

Drawing No.

EL-CB-MG18

System:

**EL-MSF
 GFRG**

Size:

A4

Scale:

NTS

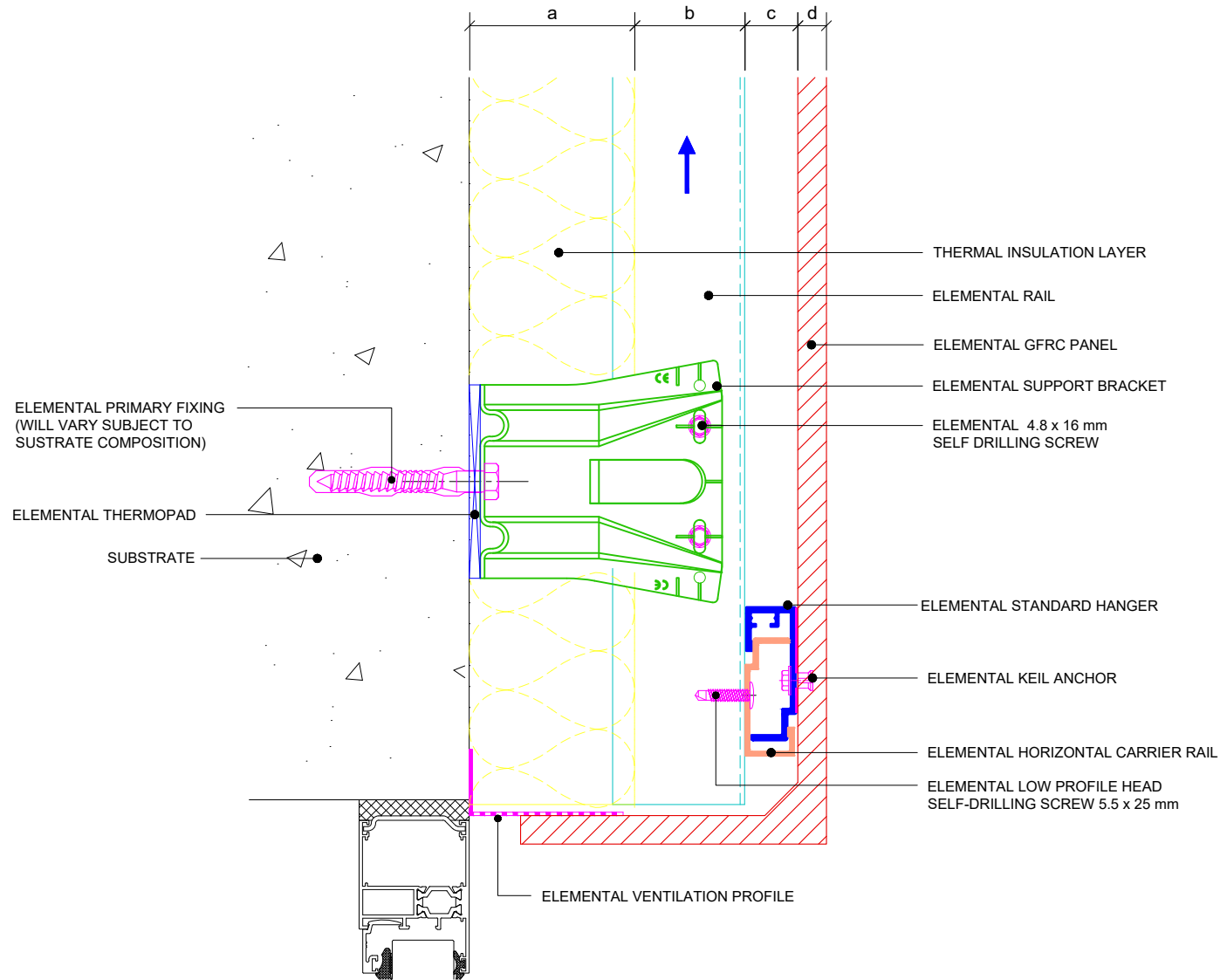
Drawn:

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
a+b+c	Clad Zone



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 #29 The Cubes Offices, Beacon South Quarter,
 Sandyford
 Dublin 18, D18 A264
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Drawing Title

**ELEMENTAL GFRc - MSF
 WINDOW HEAD DETAIL - CLOSED JOINT OPTION**

Drawing No.

EL-CB-MG19

System:

**EL-MSF
 GFRc**

Size:

A4

Scale:

NTS

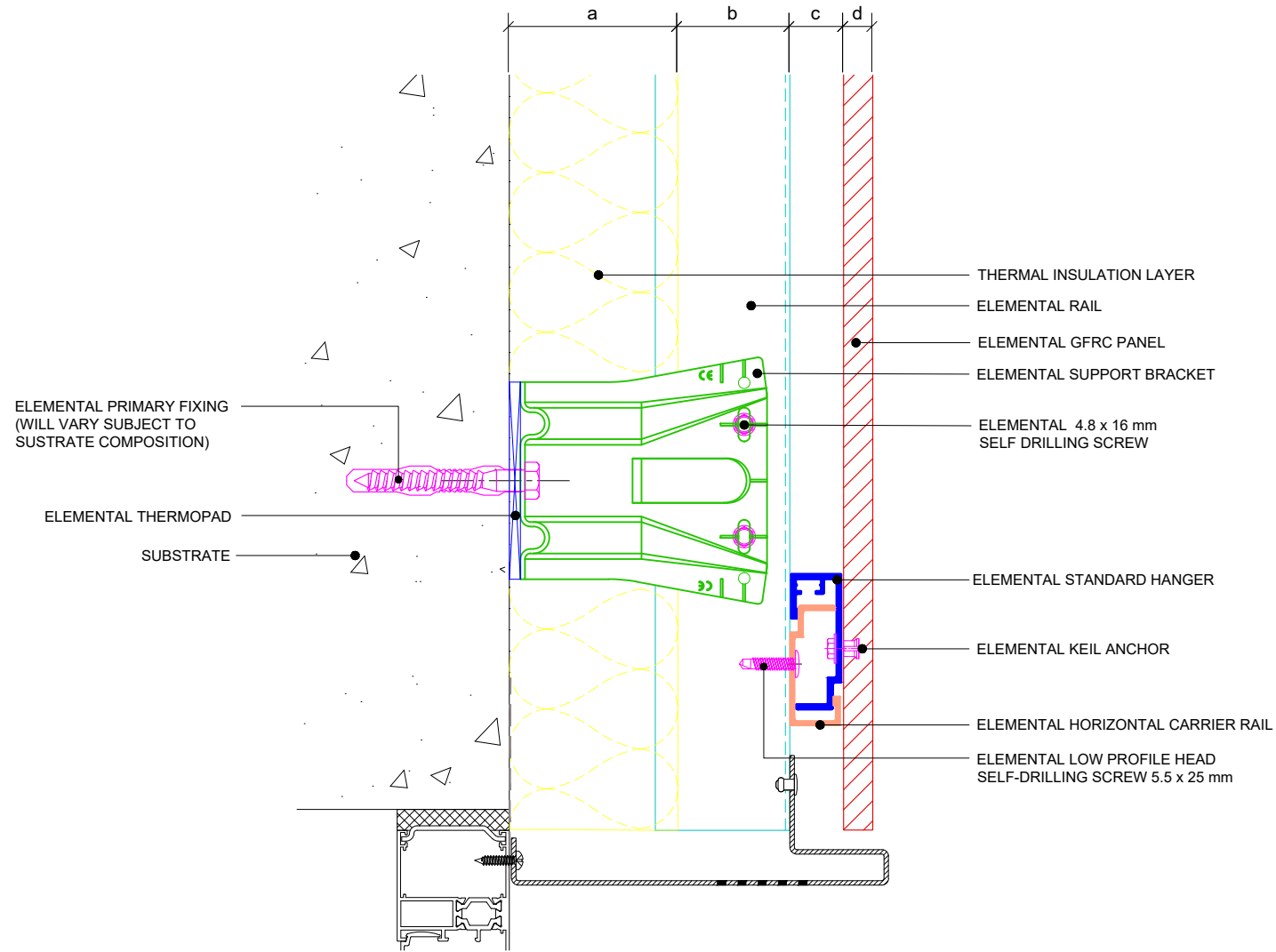
Drawn:

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
a+b+c	Clad Zone



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 Dublin 18, D18 A264
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Drawing Title

**ELEMENTAL GFRP - MSF
 WINDOW HEAD DETAIL- METAL FLASHING OPTION 1**

Drawing No.

EL-CB-MG20

System:

**EL-MSF
 GFRP**

Size:

A4

Scale:

NTS

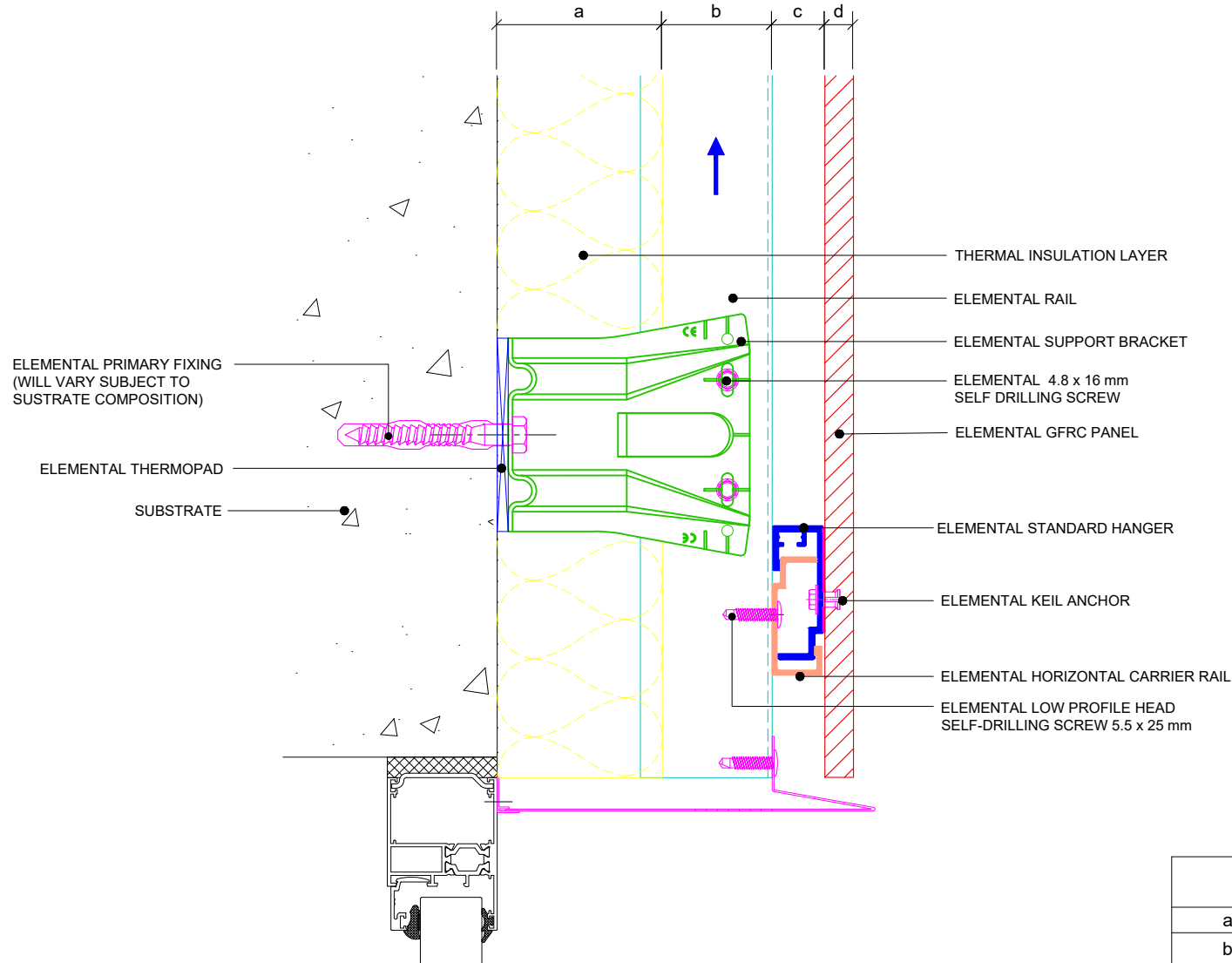
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
a+b+c	Clad Zone



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Drawing Title

**ELEMENTAL GFRG - MSF
 WINDOW HEAD DETAIL - METAL FLASHING OPTION 2**

Drawing No.

EL-CB-MG21

System:

**EL-MSF
 GFRG**

Size:

A4

Scale:

NTS

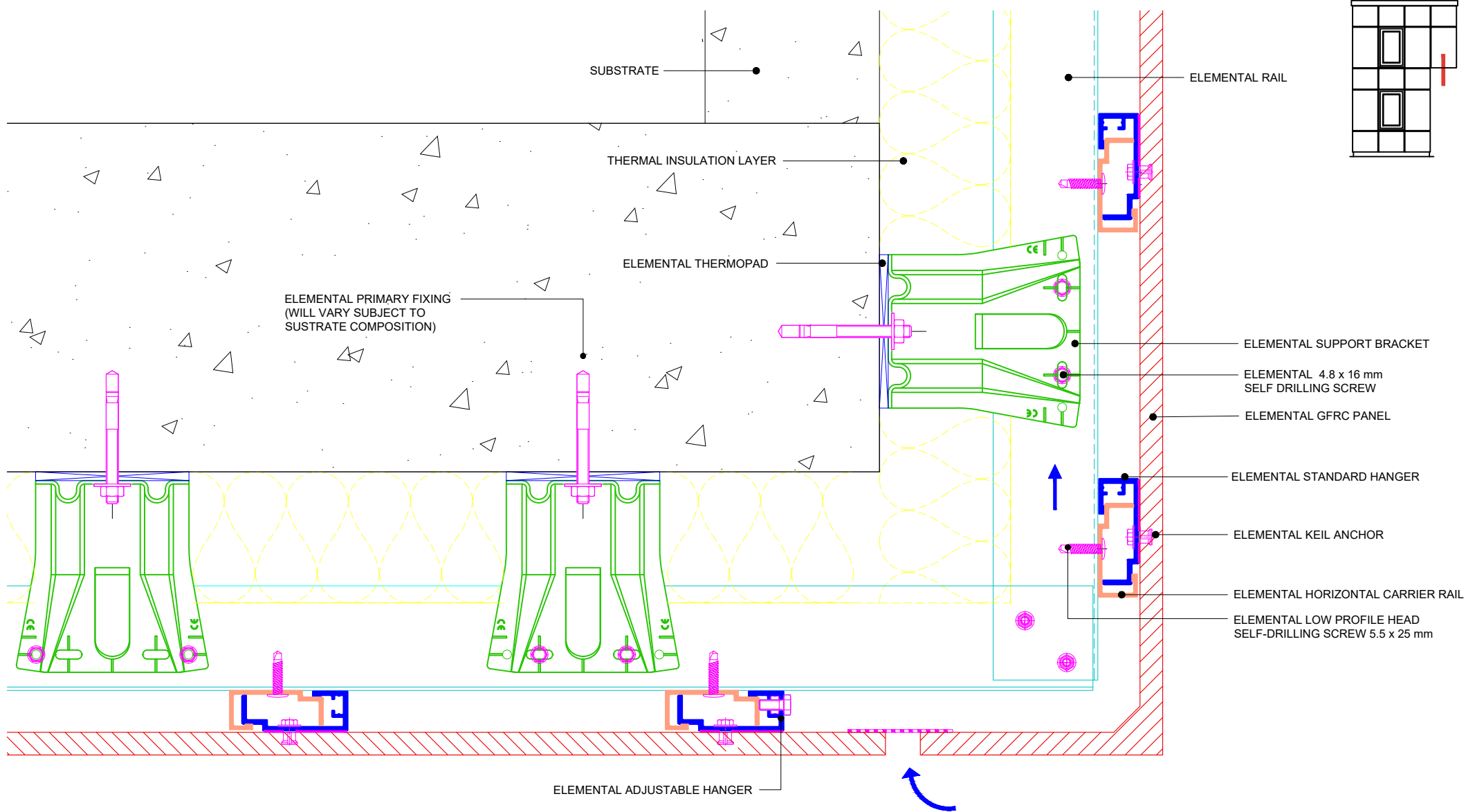
Drawn:

V.C.

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 Dublin 18, D18 A264
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Drawing Title

**ELEMENTAL GFRP - MSF
 SOFFIT DETAIL**

Drawing No.

EL-CB-MG22

System:

EL-MSF
 GFRP

Size:

A4

Scale:

NTS

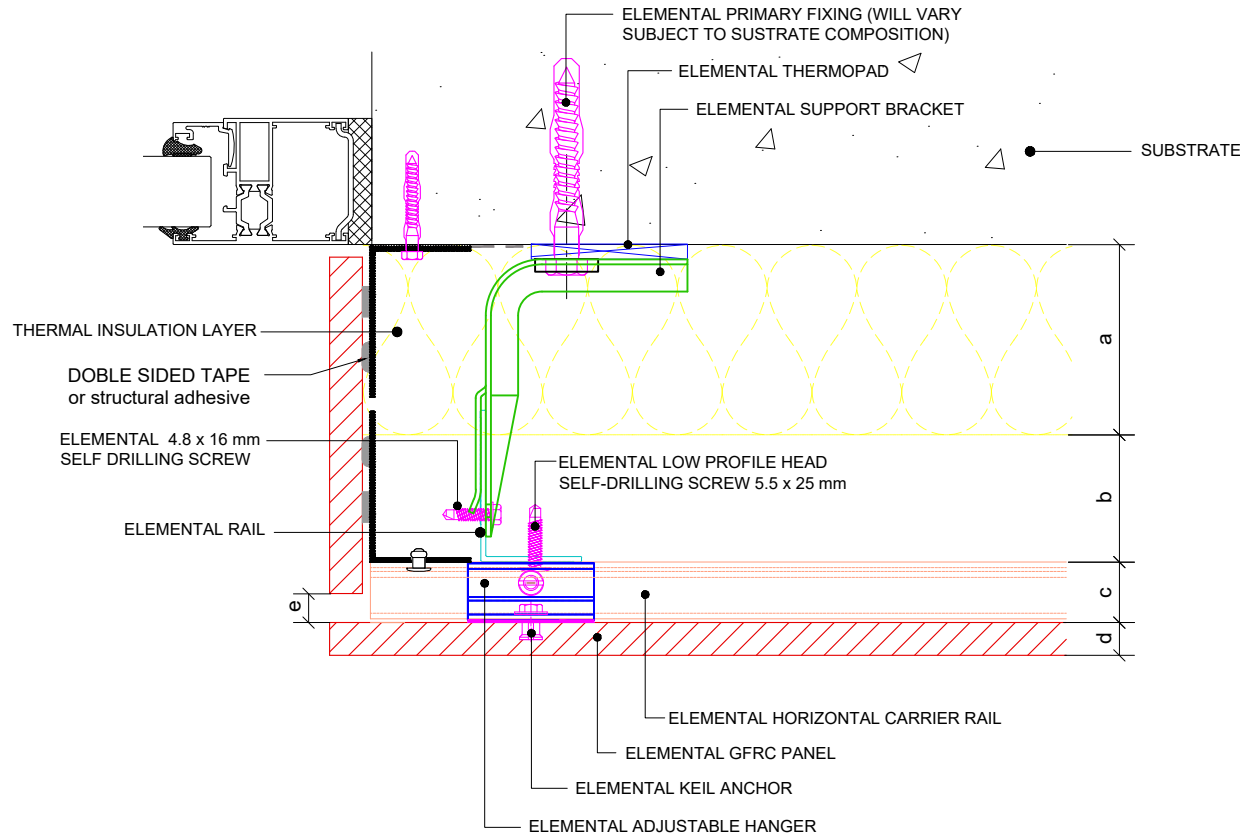
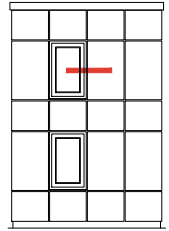
Drawn:

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	recommended 10mm
a+b+c	Clad Zone



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 Dublin 18, D18 A264
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 Email: info@elemental.ie

Drawing Title

**ELEMENTAL GFRP - MSF
 WINDOW JAM REVEAL - OPEN OPTION**

Drawing No.

EL-CB-MG23

System:

**EL-MSF
 GFRP**

Size:

A4

Scale:

NTS

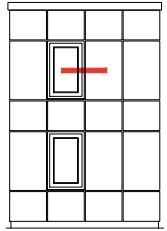
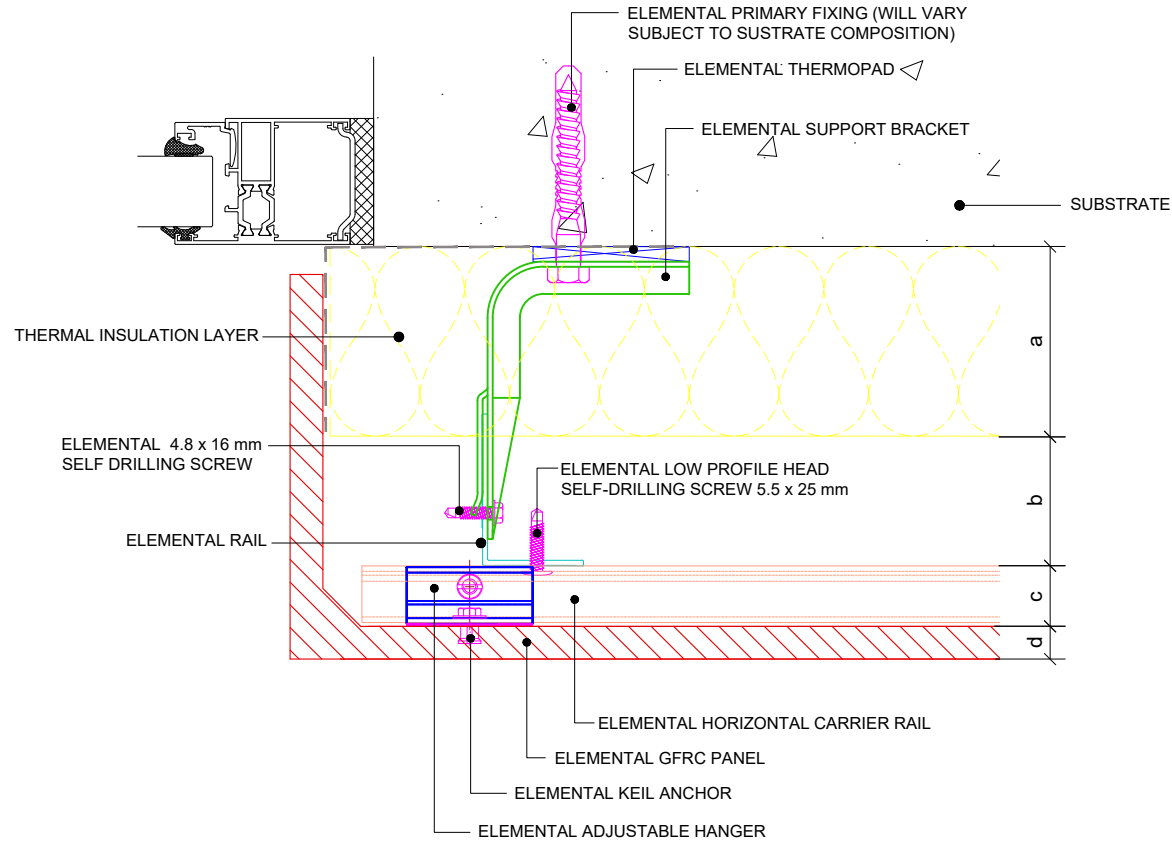
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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
a+b+c	Clad Zone



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Drawing Title

**ELEMENTAL GFRc - MSF
 WINDOW JAM REVEAL - CLOSED OPTION**

Drawing No.

EL-CB-MG24

System:

**EL-MSF
 GFRc**

Size:

A4

Scale:

NTS

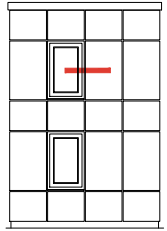
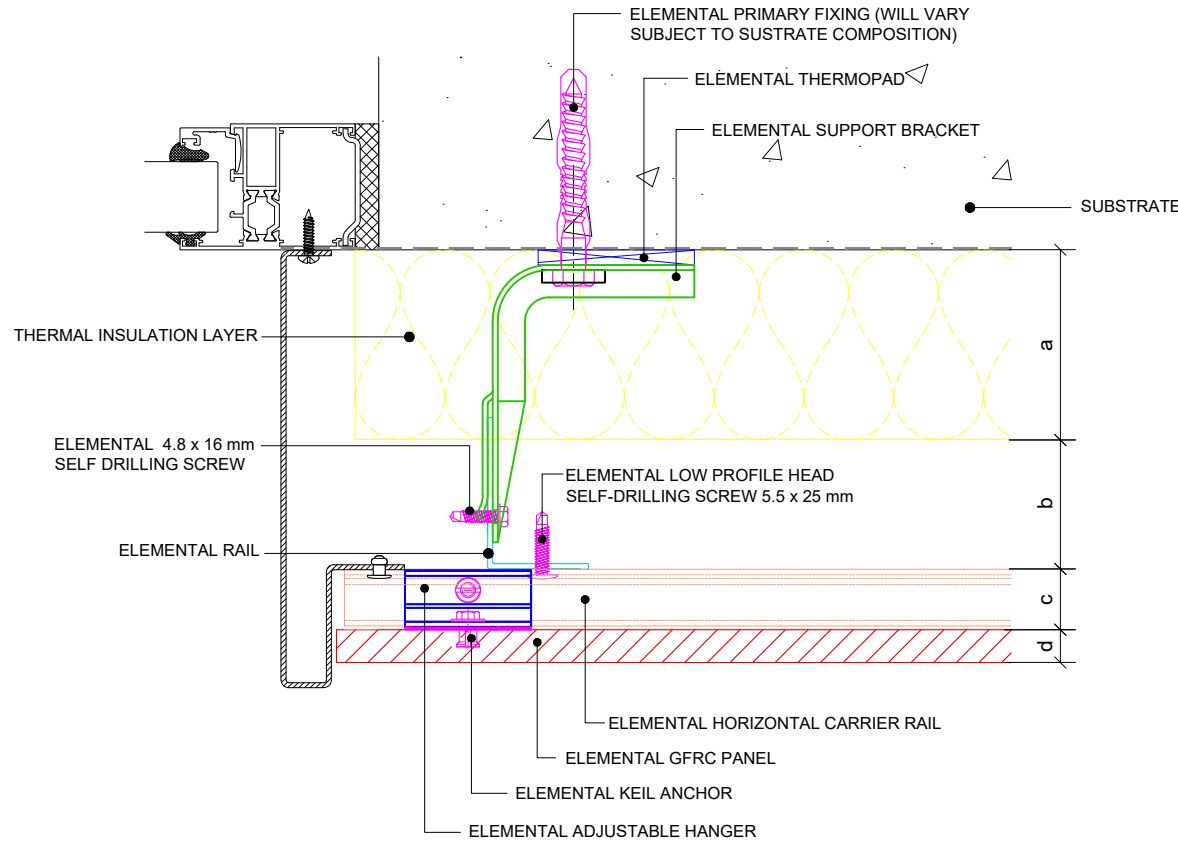
Drawn:

V.C.

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Dimensions	
a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
a+b+c	Clad Zone



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Drawing Title

**ELEMENTAL GFRc - MSF
 WINDOW JAM REVEAL - METAL FLASHING OPTION**

Drawing No.

EL-CB-MG25

System:

**EL-MSF
 GFRc**

Size:

A4

Scale:

NTS

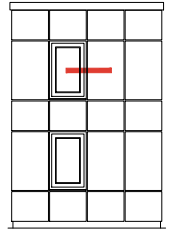
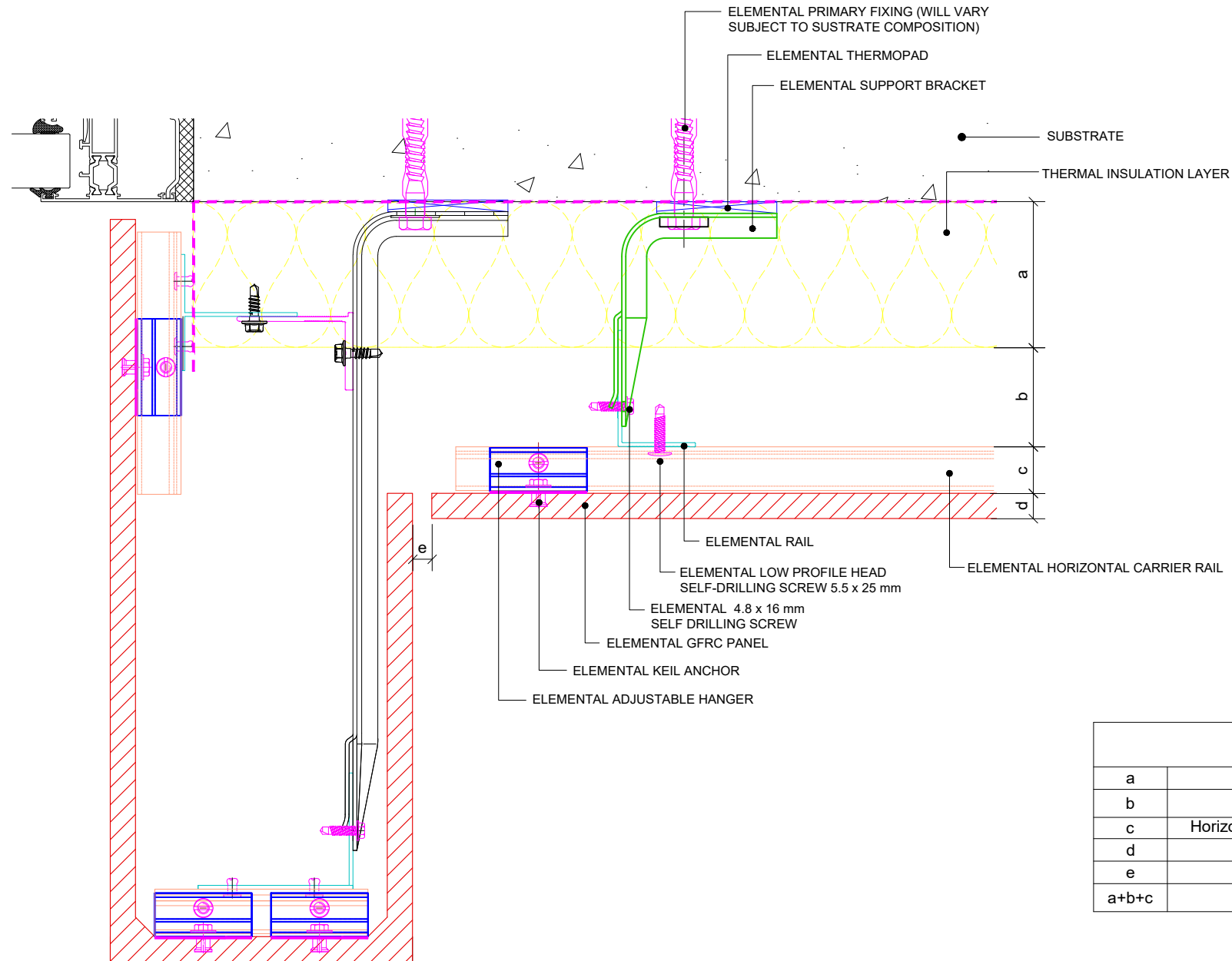
Drawn:

V.C.

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Dimensions

a	Insulation thickness (varies)
b	Free vertical ventilation gap
c	Horizontal Carrier rail and Panel Hanger
d	Panel nominal thickness
e	10 mm
a+b+c	Clad Zone



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Drawing Title

**ELEMENTAL GFRc - MSF
 WINDOW JAM REVEAL - COMPLETE PIECE OPTION 1**

Drawing No.

EL-CB-MG26

System:

**EL-MSF
 GFRc**

Size:

A4

Scale:

NTS

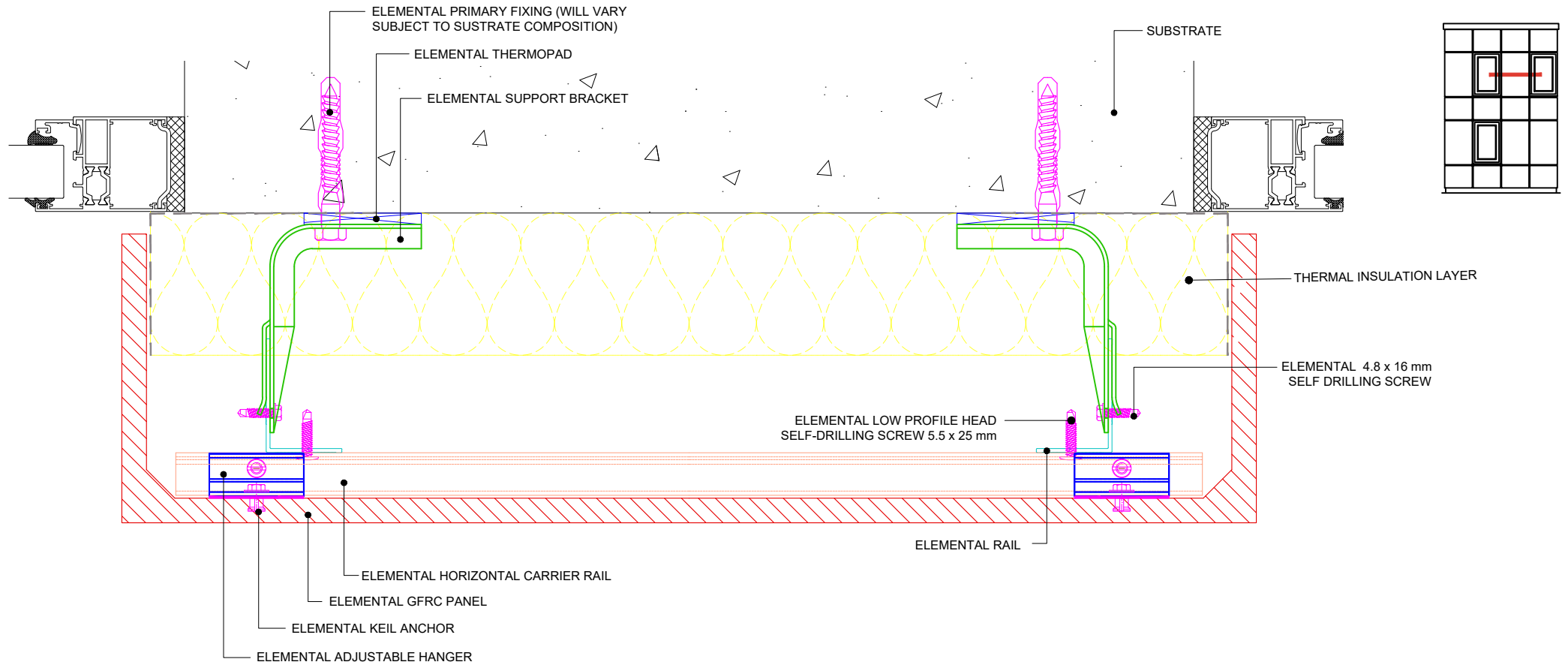
Drawn:

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Drawing Title

**ELEMENTAL GFRc - MSF
 WINDOW JAM REVEAL - COMPLETE PIECE OPTION 2**

Drawing No.

EL-CB-MG27

System:

**EL-MSF
 GFRc**

Size:

A4

Scale:

NTS

Drawn:

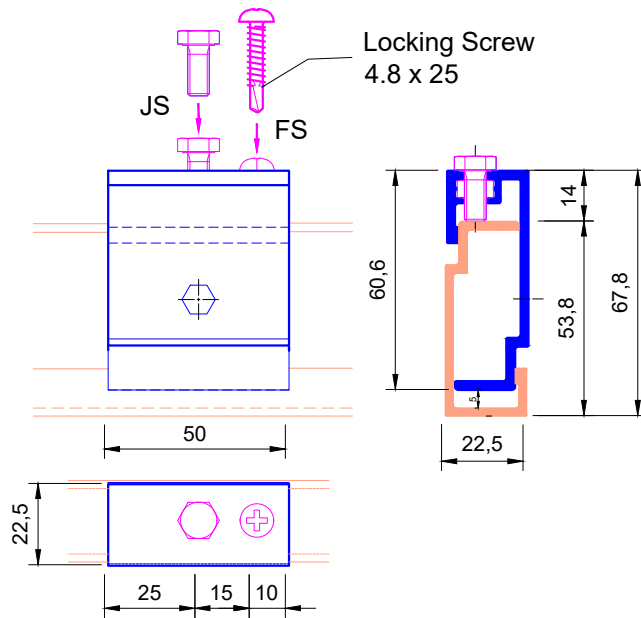
V.C.

Rev.

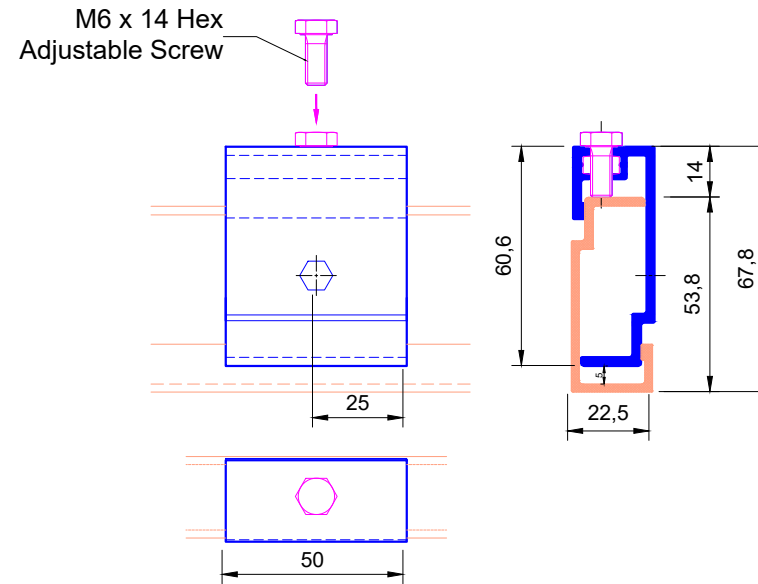
01

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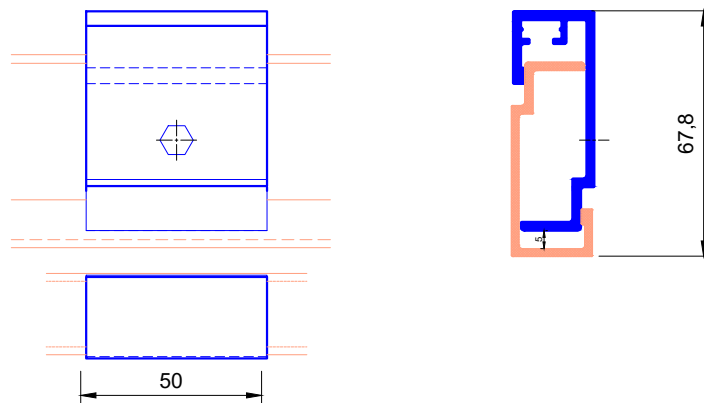
Adjustable Fixed Hanger



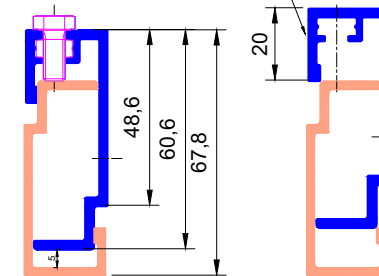
Adjustable Hanger



Standard Hanger



A lift of 20 mm will allow the panel hanger to clear the horizontal rail. We advise a minimum of 25mm clearance gap for ease of installation.



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Drawing Title

**ELEMENTAL GFRC - MSF
 PANEL HANGERS**

Drawing No.

EL-CB-MG28

System:

EL-MSF
 GFRC

Size:

A4

Scale:

NTS

Drawn:

V.C.

Rev.

01