# Facade System



# Ventilated facade

Elemental-Concrete Bracket-Rivet GFRC

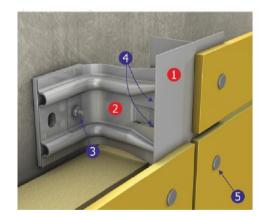
### GFRC, Glass Fiber Reinforced Concrete

GFRC Mechanical Rivet Fix onto 1- layer Metal substructure

#### Contents:

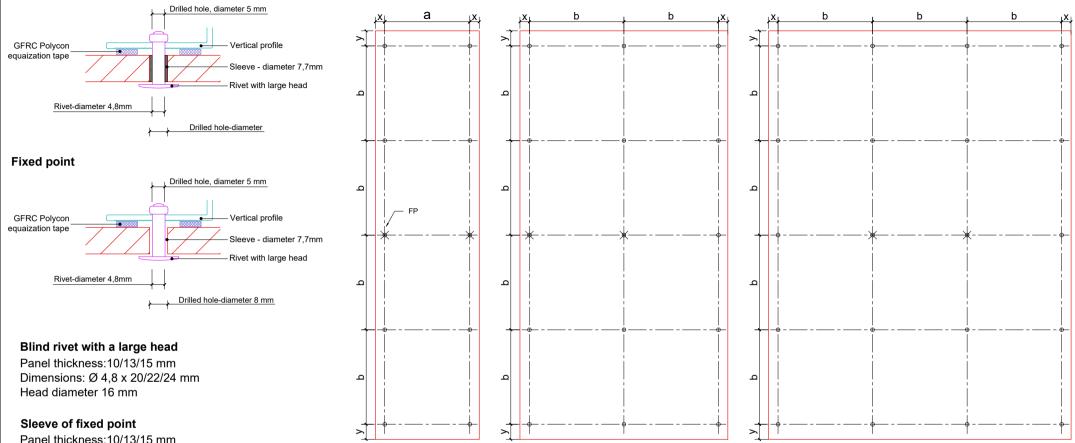
EL-CB-RG01	SYSTEM LAYOUT
EL-CB-RG02	BRACKET TYPES AVAILABLE
EL-CB-RG03	BASE DETAIL
EL-CB-RG04	HORIZONTAL JOINT DETAIL - OPEN OPTION
EL-CB-RG05	JOINT PROFILE DETAILS - CLOSED OPTIONS
EL-CB-RG06	GENERIC PARAPET DETAIL
EL-CB-RG07	GENERIC PARAPET DETAILS - OPTIONS
EL-CB-RG08	INTERMEDIATE PANEL SUPPORT DETAIL
EL-CB-RG09	RAIL SUPPORT AND VERTICAL JOINT
EL-CB-RG10	BUILDING STRUCTURAL MOVEMENT JOINT
EL-CB-RG11	EXTERNAL CORNER - CONTINUOUS PANEL
EL-CB-RG12	EXTERNAL CORNER - CLOSED JOINT OPTIONS
EL-CB-RG13	INTERNAL CORNER OPTIONS
EL-CB-RG14	GENERIC WINDOW CILL DETAIL
EL-CB-RG15	GENERIC WINDOW CILL DETAIL - COMPLETE PIECE OPTION
EL-CB-RG16	WINDOW HEAD DETAIL - CLOSED JOINT OPTION
EL-CB-RG17	WINDOW HEAD DETAIL - JOINT OPTIONS
EL-CB-RG18	SOFFIT DETAIL
EL-CB-RG19	WINDOW JAMB REVEAL DETAILS
EL-CB-RG20	WINDOW JAMB REVEAL - COMPLETE PIECE OPTION 1
EL-CB-RG21	WINDOW JAMB REVEAL - COMPLETE PIECE OPTION 2

#### Image for illustration purposes



'L' or 'T' Rail
Support Bracket
FIXINGS:
Bracket to Wall Fixings/Anchors
Rail to Bracket Fixings
Colour Coordinated Rivets

#### Fixed point



Panel thickness:10/13/15 mm Dimensions: Ø 7,7 x 5 x 9/11/14 mm

Diameter of holes drilled in the Polycon panels  $\emptyset$  8 mm Diameter of holes drilled in the construction diameter 5 mm

#### Equalization tape

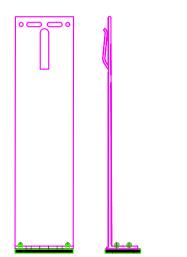
Material: rubber adhesive tape Dimensions: 10 x 3 mm

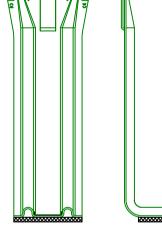
Panel thickness diameter	10 mm	13 mm	15 mm
Maximum spacing "a"	450 mm	500 mm	550 mm
Maximum spacing "b"	500 mm	550 mm	600 mm
Distance from the edge "x"	40-50 mm		
Distance from the edge "y"	50-80 mm		

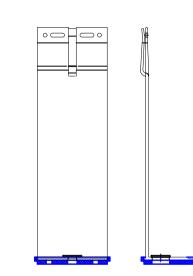
Spacing indicated in the above table can be used as a basis for the initial layout but they must be agreed with the static analysis.

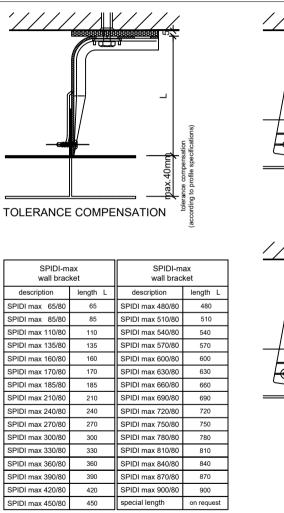
	Elemental Architectural Cladding Specialists #29 The Cubes Offices, Beacon South Quarter, Sandyford	Drawing Title			ELEME			C - RIV AYOUT		<			
elemental Architectural Cladding Specialists	Dublin 18, D18 A264 Phone: +353 (0)1 293 8951 Email: info@elemental.ie	Drawing No.	EL-CB-RG01	System:	EL-MSF GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01
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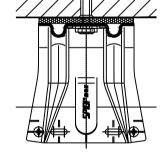
## BRACKET TYPES AVAILABLE FROM ELEMENTAL







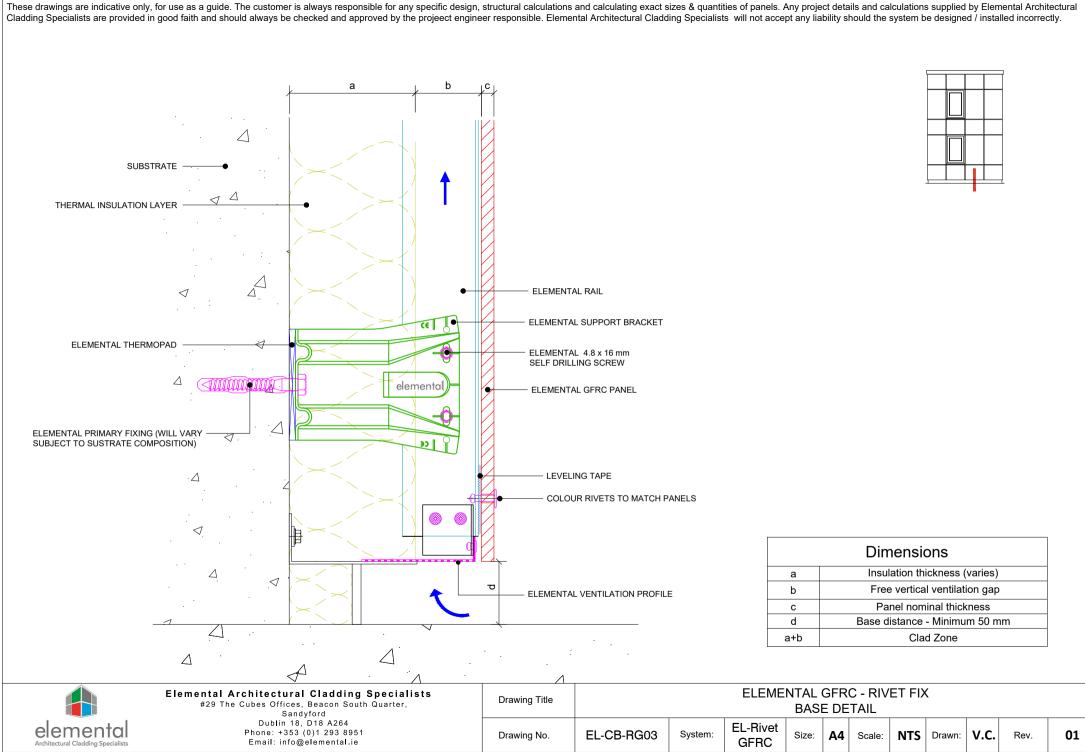


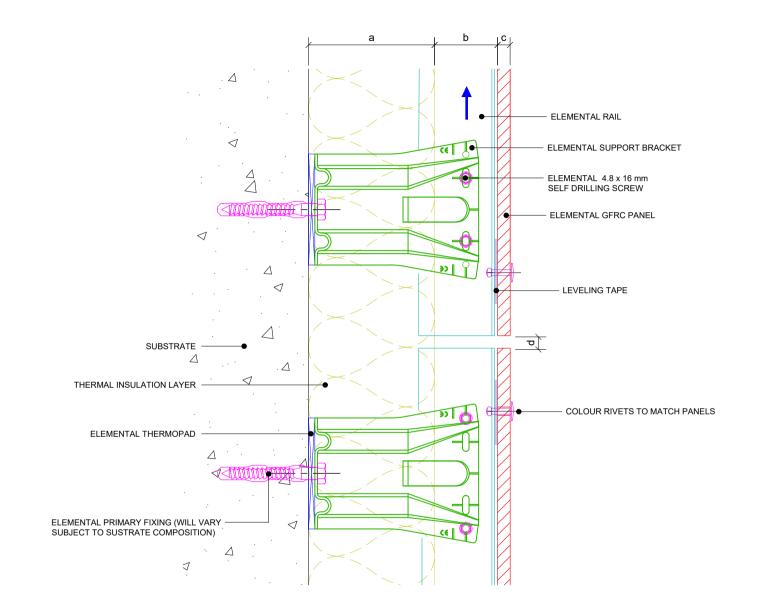


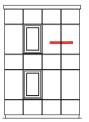
SLIDING POINT

FIXED POINT

	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			BRA	СКЕТ Т	YPE	S AVAI	LABLE	E			
elemental Architectural Cladding Specialists		Drawing No.	EL-CB-RG02	System:	EL-Rivet GFRC	Size:	A4	Scale:	NTS	Drawn:	v.c.	Rev.	01

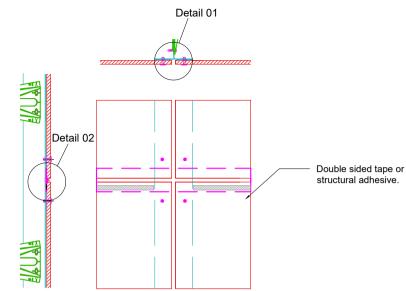


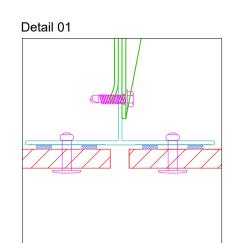


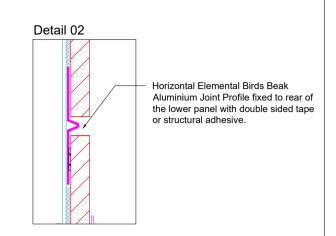


Dimensions								
а	Insulation thickness (varies)							
b	Free vertical ventilation gap							
С	Panel nominal thickness							
d	Panel Joint - 10 mm							
a+b	Clad Zone							

<b>I</b>	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 - RIVET FIX HORIZONTAL JOINT DETAIL OPEN OPTION									
elemental Architectural Cladding Specialists		Drawing No.	EL-CB-RG04	System:	EL-Rivet GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.

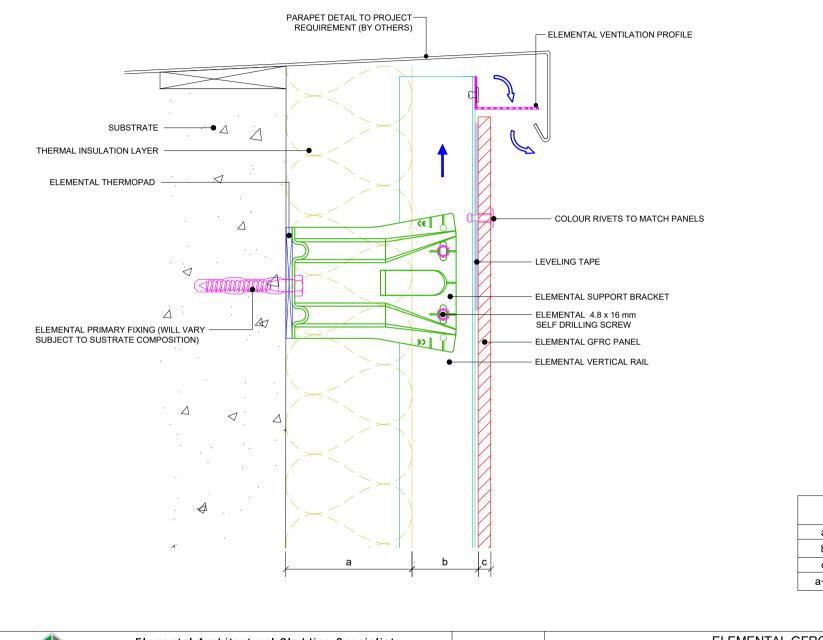


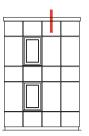




Detail 03 (Alternative Profile) Horizontal Elemental Aluminium Joint Flat Profile fixed tape or structural adhesive. Notch the joint Profile to allow the Rail to pass though

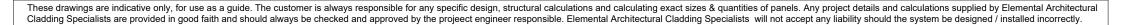
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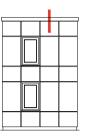


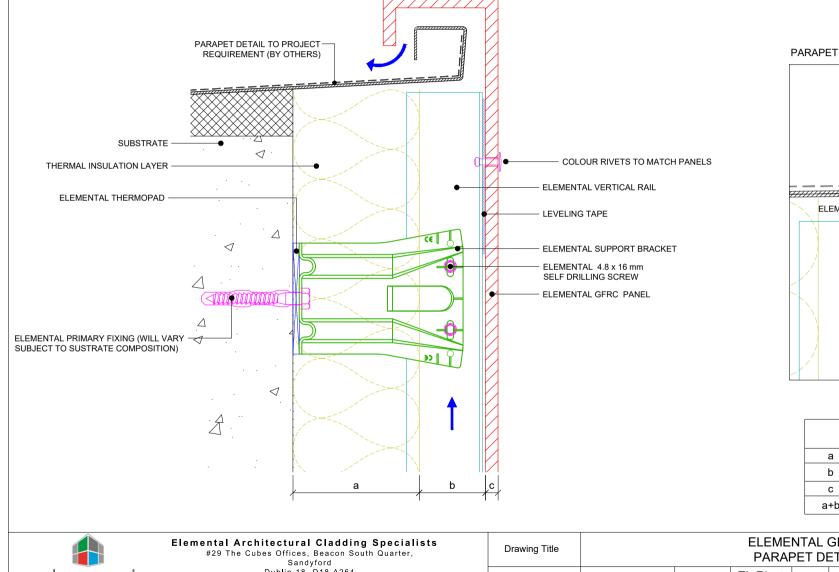


Dimensions									
а	Insulation thickness (varies)								
b	Free vertical ventilation gap								
С	Panel nominal thickness								
a+b	Clad Zone								

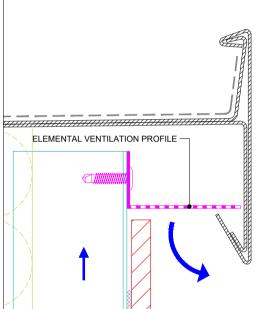
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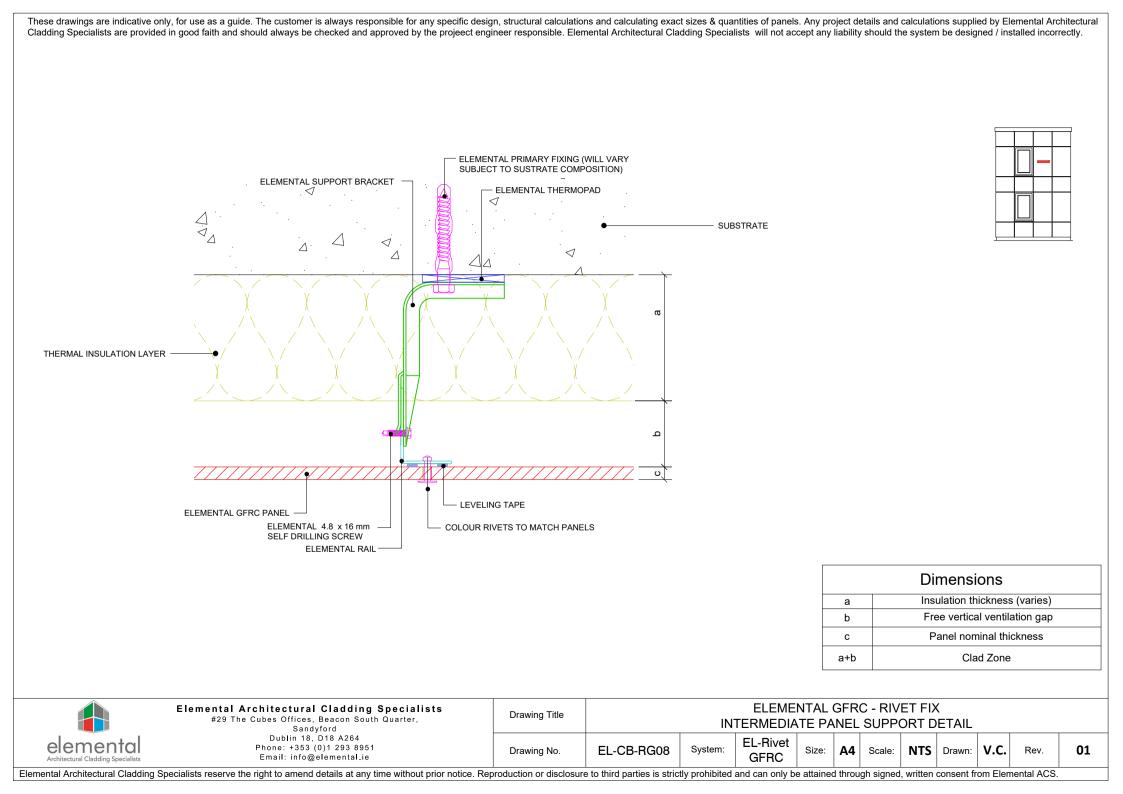


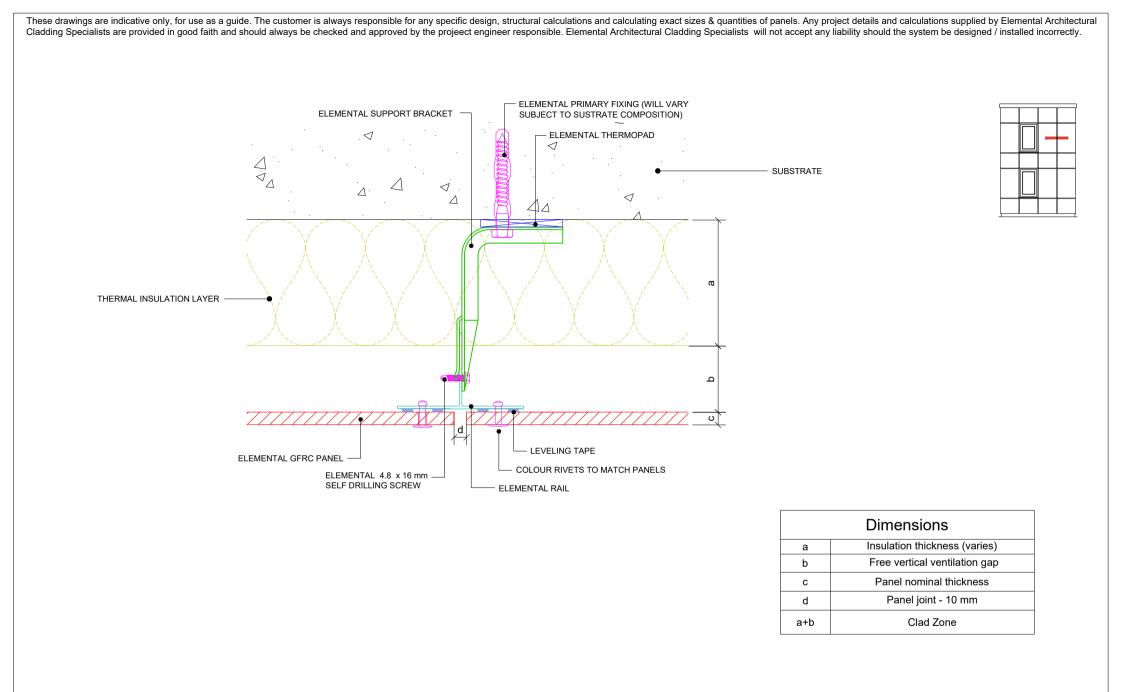
PARAPET OPTION



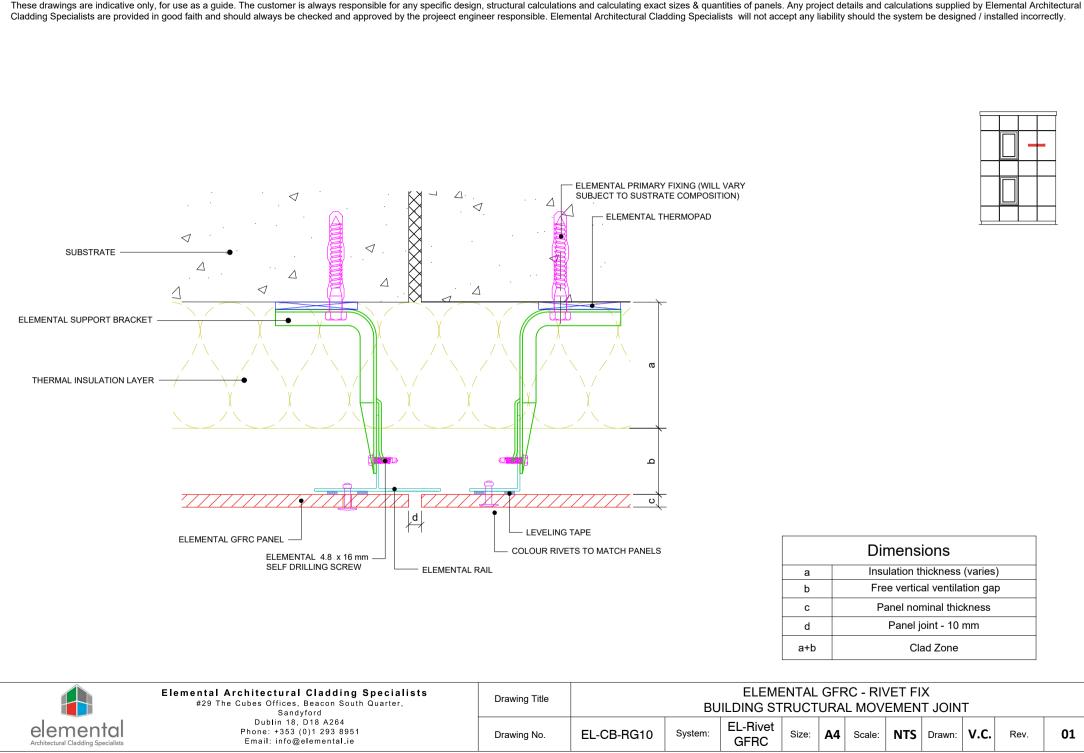
Dimensions										
а	Insulation thickness (varies)									
b	Free vertical ventilation gap									
С	Panel nominal thickness									
a+b	Clad Zone									

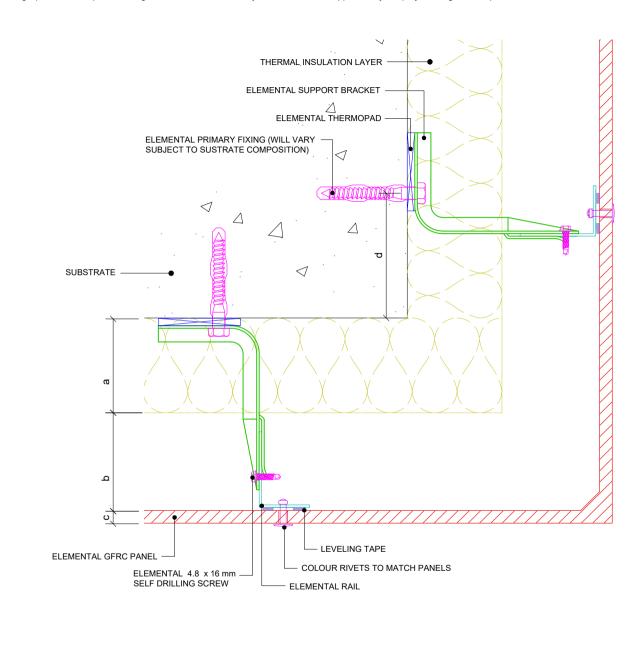
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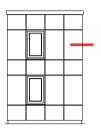




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elemental Architectural Cladding Specialists		Drawing No.	EL-CB-RG09	System:	EL-Rivet GFRC	Size:	A4	Scale:	NTS	Drawn:	v.c.	Rev.	01
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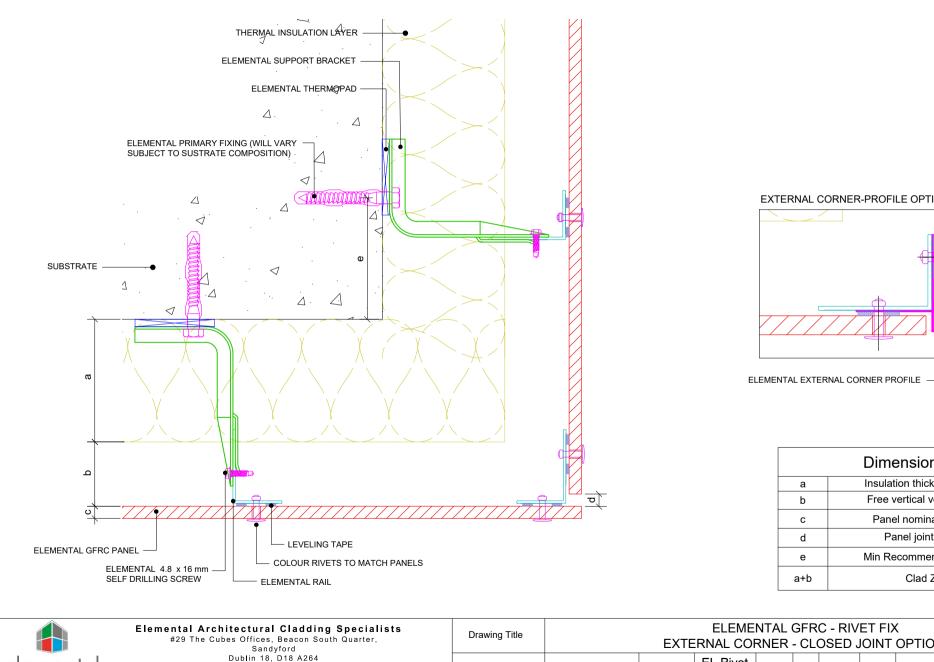


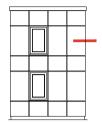




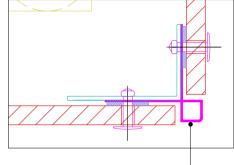
	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
с	Panel nominal thickness
d	Min Recommended 100 mm
a+b	Clad Zone

	Elemental Architectural Cladding Specialists #29 The Cubes Offices, Beacon South Quarter, Sandyford	Drawing Title		EX	ELEME TERNAL CO		-	-			-		
elemental Architectural Cladding Specialists	Dublin 18, D18 A264 Phone: +353 (0)1 293 8951 Email: info@elemental.ie	Drawing No.	EL-CB-RG11	System:	EL-Rivet GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01
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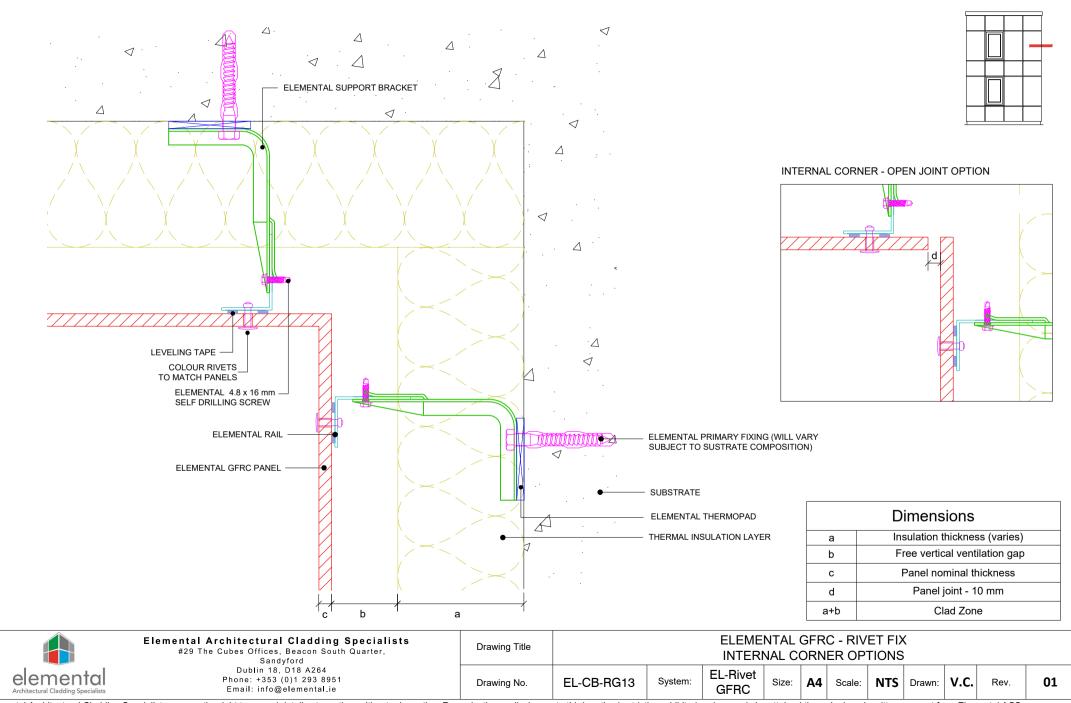


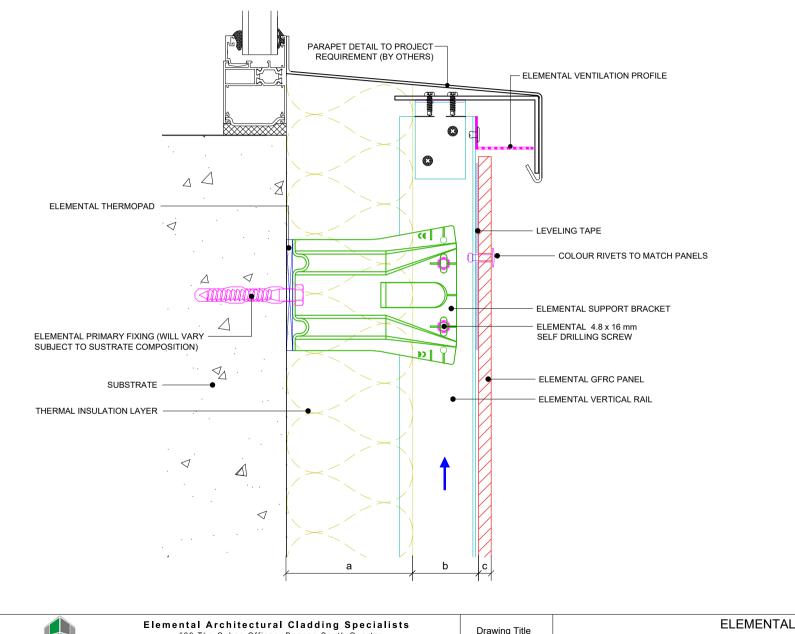
EXTERNAL CORNER-PROFILE OPTION

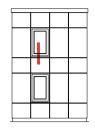


	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
с	Panel nominal thickness
d	Panel joint - 10 mm
е	Min Recommended 100 mm
a+b	Clad Zone

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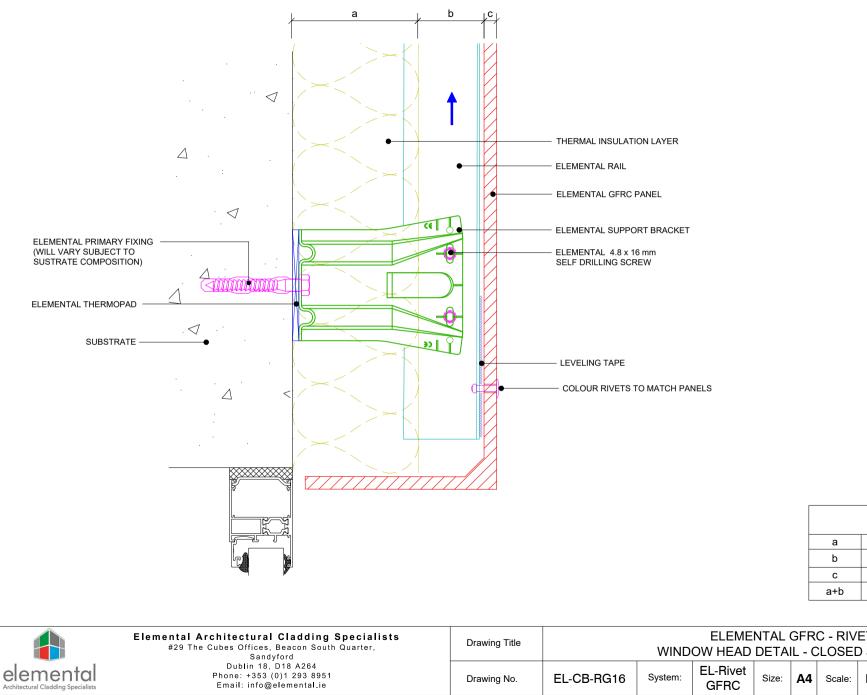


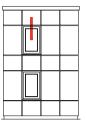
	Dimensions
а	Insulation thickness (varies)
b	Free vertical ventilation gap
С	Panel nominal thickness
a+b	Clad Zone

	Elemental Architectural Cladding Specialists #29 The Cubes Offices, Beacon South Quarter, Sandyford	Drawing Title			ELEME GENERI					-			
elemental Architectural Cladding Specialists	Dublin 18, D18 A264 Phone: +353 (0)1 293 8951 Email: info@elemental.ie	Drawing No.	EL-CB-RG14	System:	EL-Rivet GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01
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SPIDI max thermostop Boltadapter Self-drilling srews  $(\bigcirc$ . <u>xem</u>⁰₩NQ2 LEVELING TAPE  $\bigtriangledown$ COLOUR RIVETS TO MATCH PANELS  $\bigtriangledown$ L-profile SPIDI max wall bracket  $\bigtriangledown$ x<del>s</del>∞\*\**0**|92 Anchor Ventilated Cavity J Elemental GFRC Panel  $\nabla$ **ELEMENTAL GFRC - RIVET FIX** Elemental Architectural Cladding Specialists Drawing Title #29 The Cubes Offices, Beacon South Quarter, GENERIC WINDOW CILL DETAIL-COMPLETE PIECE OPTION Sandyford Dublin 18, D18 A264 EL-Rivet elementa Phone: +353 (0)1 293 8951 EL-CB-RG15 System: Size: NTS Drawn: V.C. Rev. 01 Drawing No. A4 | Scale: GFRC Email: info@elemental.ie

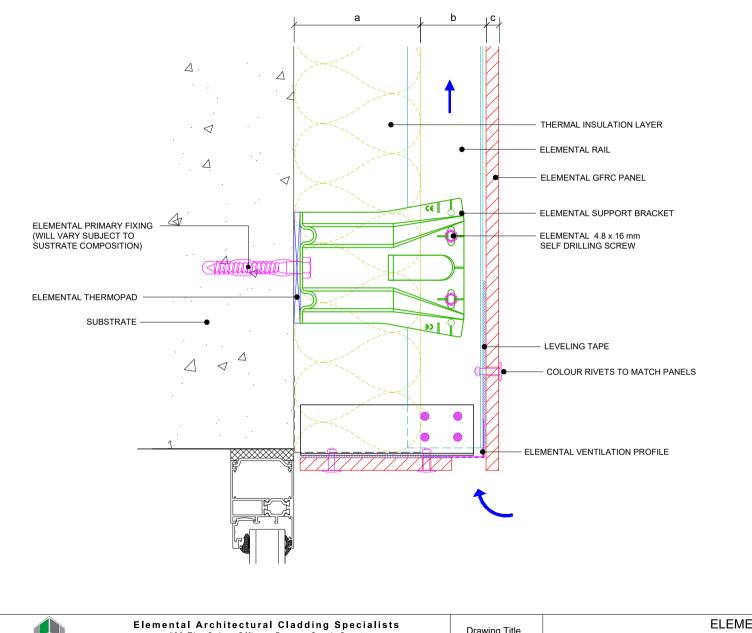
These drawings are indicative only, for use as a guide. The customer is always responsible for any specific design, structural calculations and calculating exact sizes & quantities of panels. Any project details and calculations supplied by Elemental Architectural Cladding Specialists are provided in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

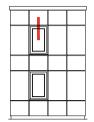




aInsulation thickness (varies)bFree vertical ventilation gapcPanel nominal thicknessa+bClad Zone		Dimensions
c Panel nominal thickness	а	Insulation thickness (varies)
	b	Free vertical ventilation gap
a+b Clad Zone	С	Panel nominal thickness
	a+b	Clad Zone

	Elemental Architectural Cladding Specialists #29 The Cubes Offices, Beacon South Quarter, Sandyford	Drawing Title	ELEMENTAL GFRC - RIVET FIX WINDOW HEAD DETAIL - CLOSED JOINT OPTION										
elemental Architectural Cladding Specialists	Dublin 18, D18 A264 Phone: +353 (0)1 293 8951 Email: info@elemental.ie	Drawing No.	EL-CB-RG16	System:	EL-Rivet GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01
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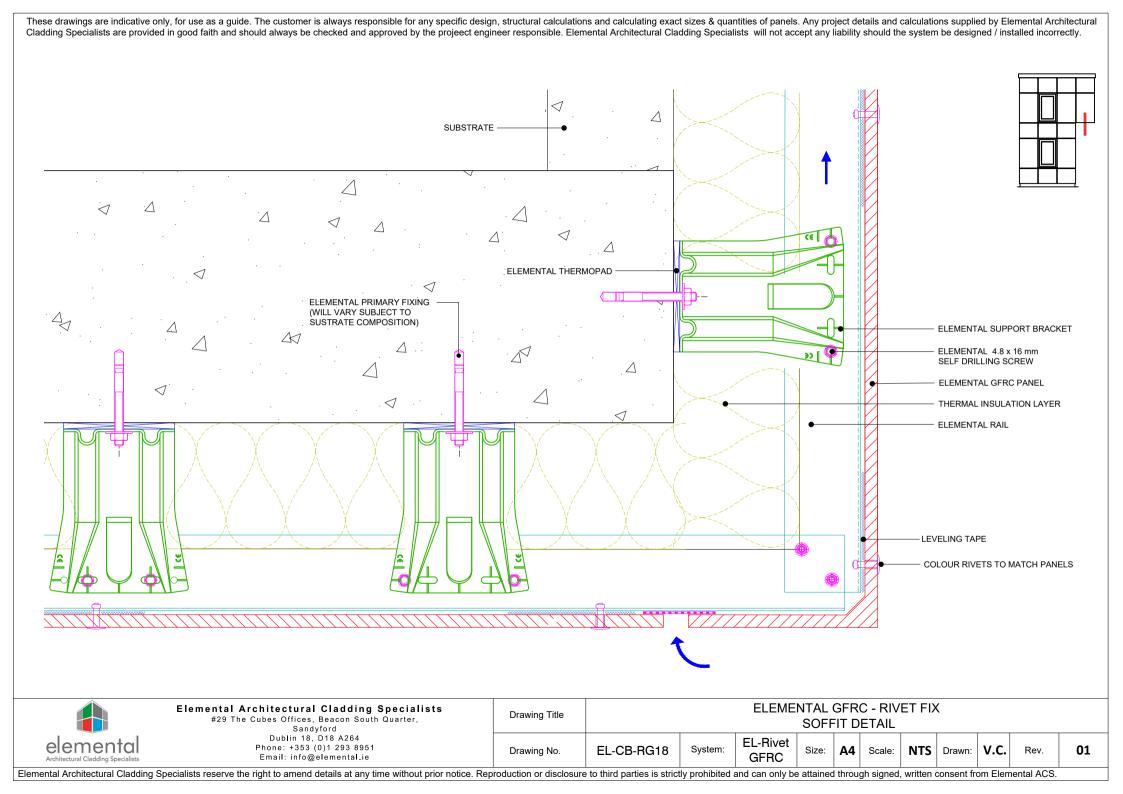


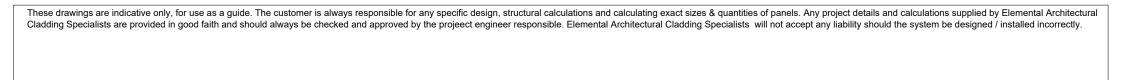


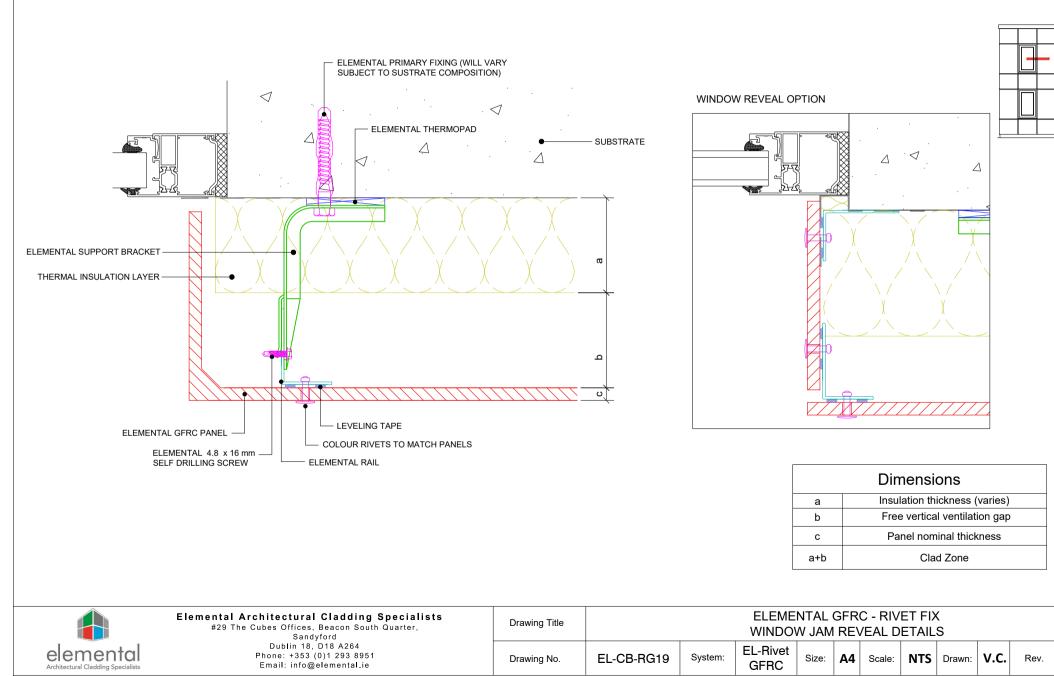
WINDOW HEAD OPTION F

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

	Elemental Architectural Cladding Specialists #29 The Cubes Offices, Beacon South Quarter, Sandyford	Drawing Title		W	ELEMEI INDOW HE								
elemental Architectural Cladding Specialists	Dublin 18, D18 A264 Phone: +353 (0)1 293 8951 Email: info@elemental.ie	Drawing No.	EL-CB-RG17	System:	EL-Rivet GFRC	Size:	A4	Scale:	NTS	Drawn:	V.C.	Rev.	01
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