

Bringing
facades
to life

MINERAL

Organic
Urban
Graphic

Mineral

ORGANIC

Urban
Graphic

Mineral

Organic

URBAN

Graphic

Mineral

Organic

Urban

GRAPHIC

CAREA®

MINERAL COMPOSITE



MADE IN FRANCE

TECHNICAL HANDBOOK AND COLOUR CHART



OUR COMMITMENTS TO ECO-DESIGN

OUR MANUFACTURING PROCESSES

Exclusive Mineral Composite sourced from French geo-sources

Up to 90% of our material composition comes from locally sourced natural mineral fillers (in Pays de la Loire - FR, near our factories). 10% of the binder is made up of recycled materials

Vertical integration of the production chain

Our Mineral Composite material is manufactured in Mayenne (FR). Our products are 100% made in France in our factories in Sillé-le-Guillaume (FR) for sanitary products and in Combrée (FR) for facade products. This local production enables us to prioritize direct sales, thereby reducing our carbon footprint when shipping materials.

Clean production

Thanks to our selection of materials, our products produce very little CO₂. In addition, the water used in the production process is in a closed loop.

THE LIFESPAN OF OUR PRODUCTS

Contributing to low-energy buildings...

Our cladding products are often associated with Exterior Thermal Insulation System (ETIS) and/or high energy performance systems, which limit or eliminate energy consumption.

Non-porous...

Due to their non-porous nature, our materials require little maintenance and contribute to reducing their environmental impact, particularly by reducing the need for cleaning (water, chemical products etc.)

... Resistant and easy to maintain

Among the 15 million square meters of facades installed and the 3 million sanitary units installed, some have been in place for over 40 years. Our materials are long-lasting, with easy maintenance (Mineral Composite) their long lifespan reduces the need to replace them.



Villefix Residence, Noisy-le-Grand (FR) #
Architects: Coda Lair et Roynette Architectes #
Ardal SMOOTH MATT, RIVEN and SHELL, Nutmeg (1-53) colour



RECYCLING OF OUR MATERIALS

Recoverable materials...

The process waste generated during production is recovered in our factories and reused for new productions. In addition, in the event of removal or demolition, our materials can be recovered by local authorities to make road embankments, for example.

... Reuse...

Our engineering teams have developed new processes that allow us recover and recycle our products after removal or demolition. Once recovered, the products can be reused after testing and cleaning.

... And more

Our facade and sanitary products are subject to Environmental Product Declarations (EPD), which can be downloaded from our websites, which analyze the CO₂ emissions of our products throughout their life cycle.



CAREA®
MINERAL COMPOSITE

Rue de Javel residence, Paris (FR) #

Architects: Descamps Arcature Architecture #

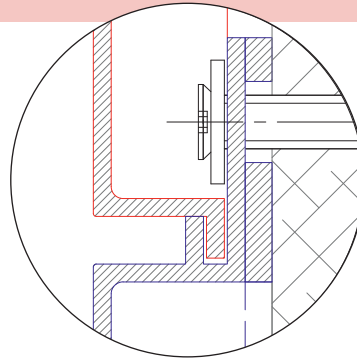
Alpha GRAFIK 200, Mocha (8-51) colour and Alpha PIERRE DE LOIRE, Chalk (1-03) colour

TECHNOLOGIES / TYPES OF CLADDING

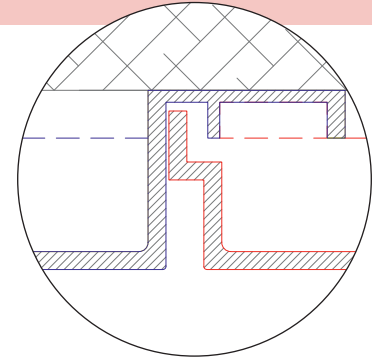
Mineral Composite:

Mineral PRESSED COMPOSITE (fine mineral fillers)

- Cladding type: CAREA interlocking (Pages 6-29)



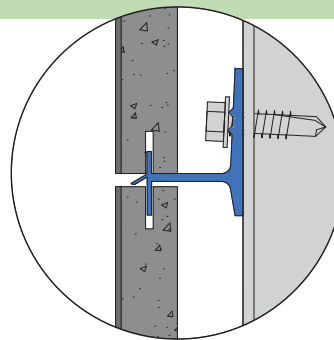
Horizontal Interlocking



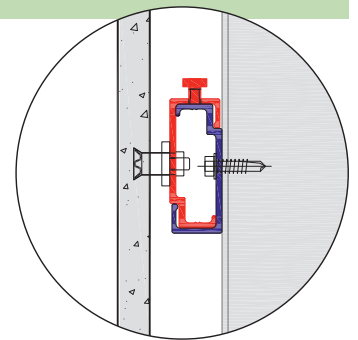
Vertical Interlocking

Mineral MOLDED COMPOSITE (crushed aggregates)

- Cladding type: **CAREA grooved** (Pages 30-65)
- CAREA Anchor** (Pages 66-79)



Grooved



Anchor





2 INSTALLATION SYSTEMS
FOR ALL SUPPORTS:
CWoB (Cladding without backing structure)
CWB (Cladding with backing structure)



CWoB



CAREA INTERLOCKING CWoB



CAREA GROOVED CWoB

CWB



CAREA INTERLOCKING CWB



CAREA HORIZONTAL GROOVED CWB



CAREA VERTICAL GROOVED CWB



CAREA Anchor CWB

THE + CAREA INTERLOCKING

- ▶ Architectural aesthetics
- ▶ Wide and deep range (finishes, formats and colours)
- ▶ Non-porous product
- ▶ Invisible fixings
- ▶ Fits on all supports
- ▶ Without overlap flashing
- ▶ Economical solution
- ▶ Ease of installation
- ▶ Q4 solutions
- ▶ A2-s1,d0 certification

CAREA

INTERLOCKING



SUMMARY

- P 10 ► Our finishes & formats
- P 13 ► Colour chart
- P 14 ► Complex thickness of CWoB
- P 15 ► Installation systems CWoB
- P 16 ► Technical specifications
- P 17 ► Substrates
- P 18 ► Basic cuts CWoB
- P 19 ► Starting and top sections CWoB
- P 20 ► Opening treatments CWoB
- P 21 ► Corners treatments CWOB
- P 22 ► Installation with external insulation or reclad
- P 24 ► Complex thickness of CWB
- P 25 ► Installation systems CWB
- P 26 ► Basic cuts CWB
- P 27 ► Starting and top sections CWB
- P 28 ► Opening treatments CWB
- P 29 ► Corners treatments CWB



Pierre aux Moines housing, Meudon 3 (FR) #
Architects: Poirier et Rieth #
Alpha GRAF900, colour Linen (1-52), Ardal RIVEN, Speckled White (9-50) colour
& Ardal RIVEN, Ice White (9-04) colour

CAREA Interlocking: Our finishes

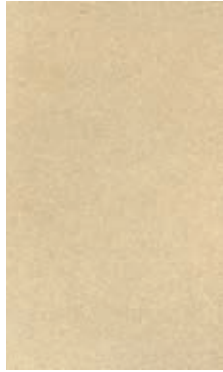
Finishes & formats (Lxh in cm)

INTERLOCKING RANGE

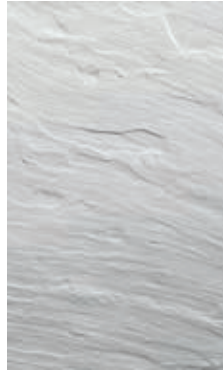
ALPHA



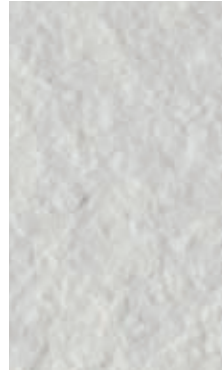
PIERRE DU SUD -
Mineral



SMOOTH -
Urban



PIERRE DE LOIRE -
Mineral



MAGMA -
Mineral

51 x 34 cm

70 x 47 cm

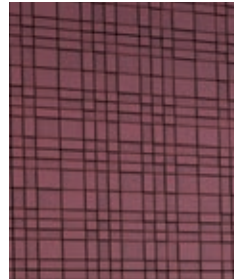


ALPHA GRAF MONOLITHIC



GRAF SLATE -
Mineral

63 x 51 cm



GRAF 100 -
Graphic



GRAF 200 -
Graphic



GRAF 900 -
Mineral

65 x 52 cm

60 x 60 cm

See
colour
chart

P13



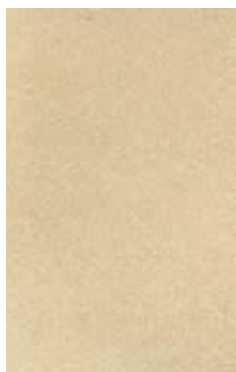


CAREA Interlocking: Our finishes

Finishes & formats (Lxh in cm)



AQUILA



SMOOTH -
Urban

60 x 30 cm

60 x 60 cm

60 x 120 cm

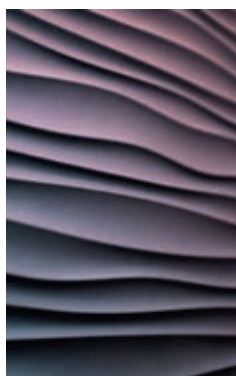
120 x 60 cm

135 x 60 cm

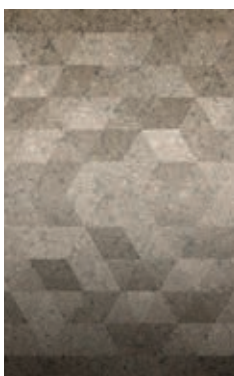
INTERLOCKING RANGE



AQUILA



DUNE -
Organic



PIXEL -
Graphic



CARVI -
Urban

60 x 120 cm

120 x 60 cm

135 x 60 cm



See
colour
chart

P13

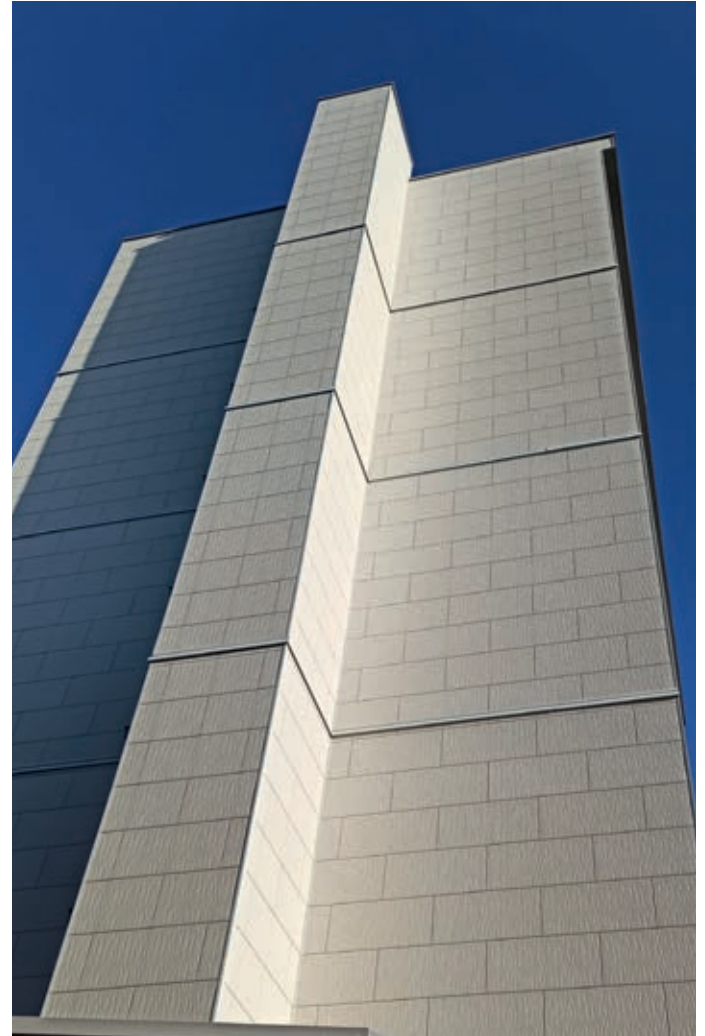


Villeneuve-la-Lande residence, Nantes (FR) #
Architects: Nantaise d'Habitation #
Aquila DUNE, Mocha (8-51) colour



University of Poitiers (FR) #
Architects: Isabelle Castell, Axe Ingénierie #
Aquila SMOOTH, colour Turquoise (5-01) & Aquila PIXEL,
Hammered Silver (11-08) colour

Carea Interlocking



Avenue du Pont-Neuf rehabilitation, Alençon (FR) #
Architects: Orne Habitat #
Aquila DUNE vertical, Marble White (9-51) colour

CAREA Interlocking: Colour chart

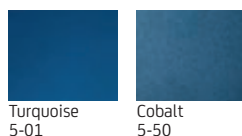
BEIGE YELLOW



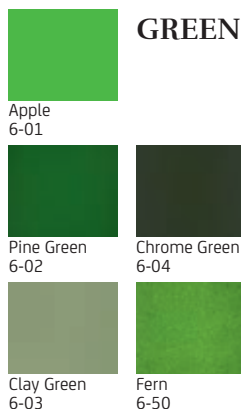
ORANGE RED PURPLE



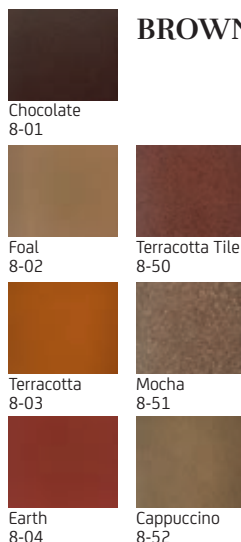
BLUE



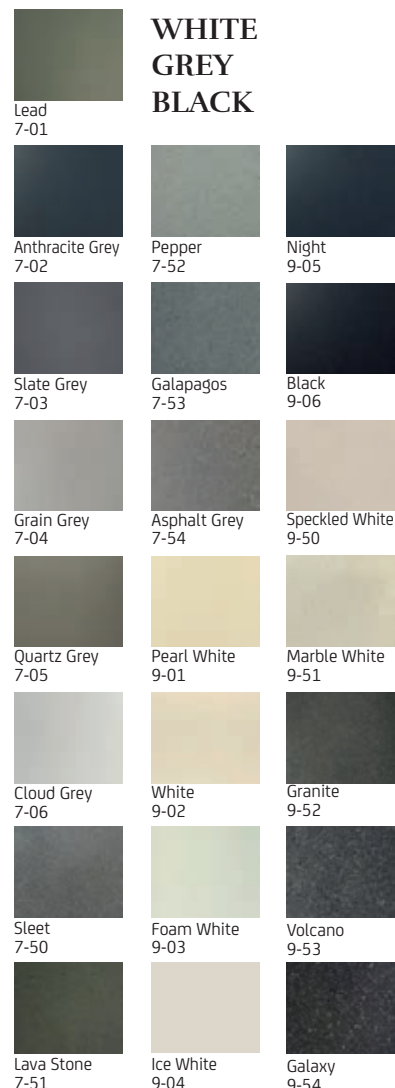
GREEN



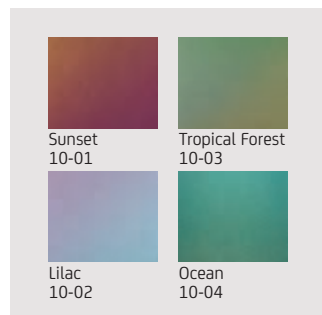
BROWN



WHITE GREY BLACK



IRIDESCENT



METALLIC – HAMMERED



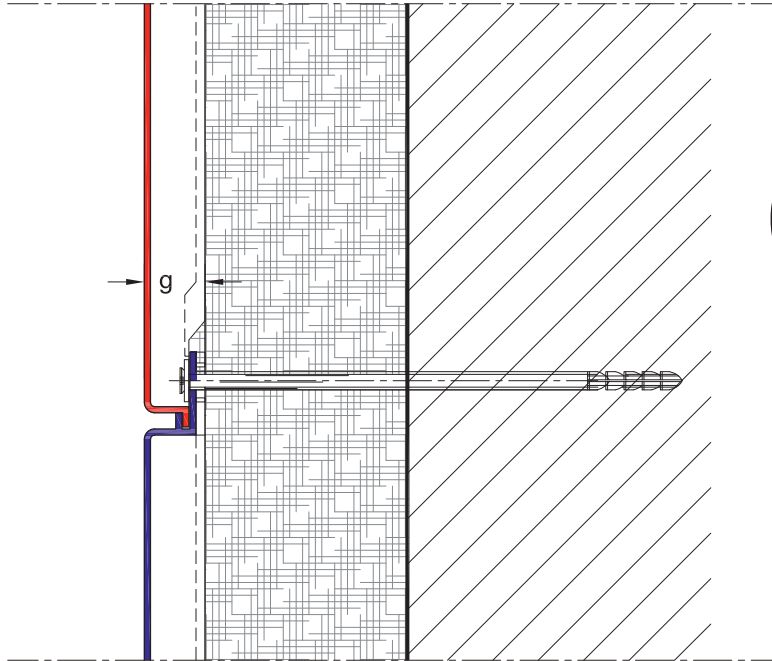
Any special colour can be studied

Despite all the care taken in printing this document, slight differences in shades may exist compared to the delivered products. Depending on the lighting of the facade, a slight variation may appear on the cladding.

Codification X-01 to X-49: monochrome shade / X-50 to X-99: speckled shade

CAREA Interlocking:
Complex
thickness

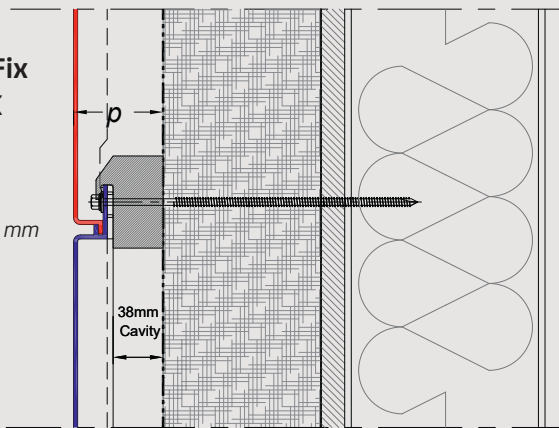
INTERLOCKING RANGE



CWCAREA**oB**

Click & Fix
for UK

$p = g + 38 \text{ mm}$



g dimension (in mm)

Total thickness

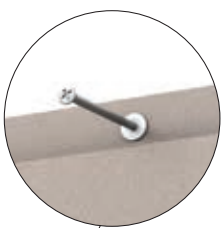
Products	Finish	g dimension (in mm)	
		Standard	Heavy (Q4)
ALPHA	SMOOTH	20	22
	PIERRE DU SUD	20	22
	PIERRE DE LOIRE	20	22
	MAGMA	20	22
ALPHA GRAF MONOLITHIC	GRAF 100	35	37
	GRAF 200	35	37
	GRAF 900	31	
	GRAF SLATE	23	
AQUILA	SMOOTH	30	31
	DUNE / PIXEL	34	35
	CARVI	32	33



CAREA Interlocking: Installation systems

INTERLOCKING RANGE

Nylon plug with minimum diameter of 8 mm, depending on the thickness of the insulation + 13 mm min. collar



CWoB (Cladding without backing structure)

Rigid insulation (Cladding without Backing Structure)

Thickness:
Up to 240 mm for CWoB
(140 mm for Click & Fix)



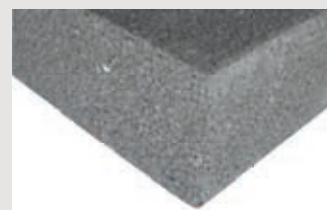
Rockwool
mini. 90 kg/m³



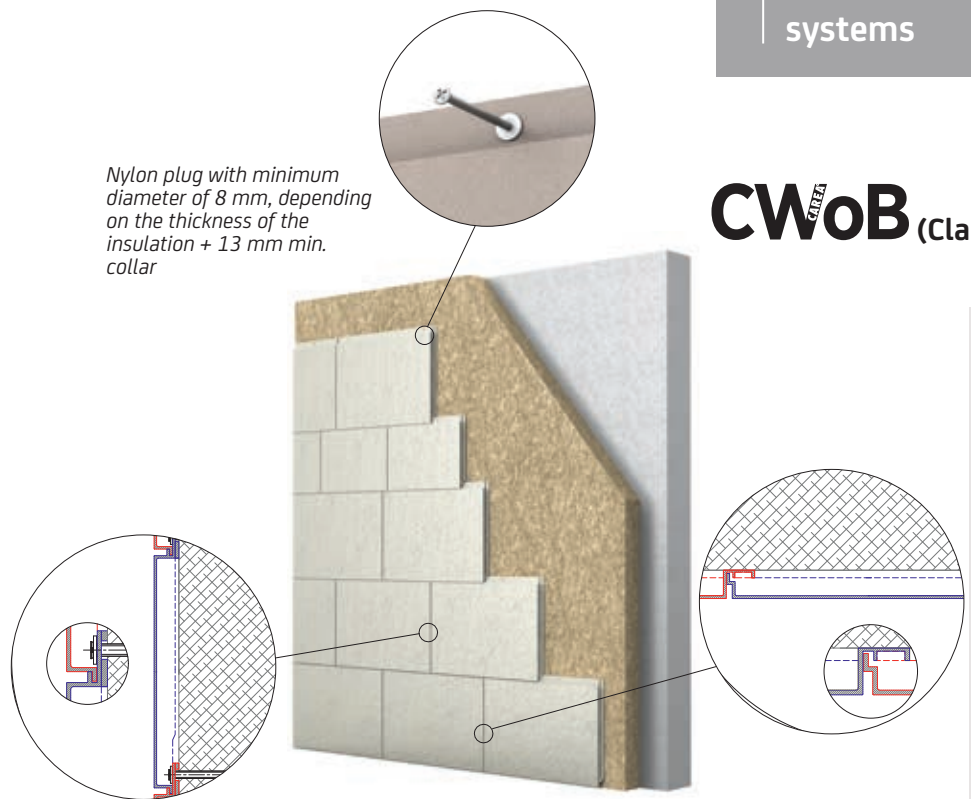
Polyurethane (PIR)



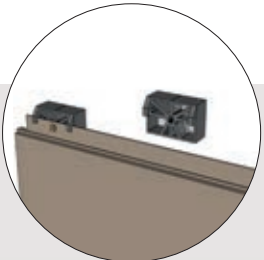
Phenolic foam



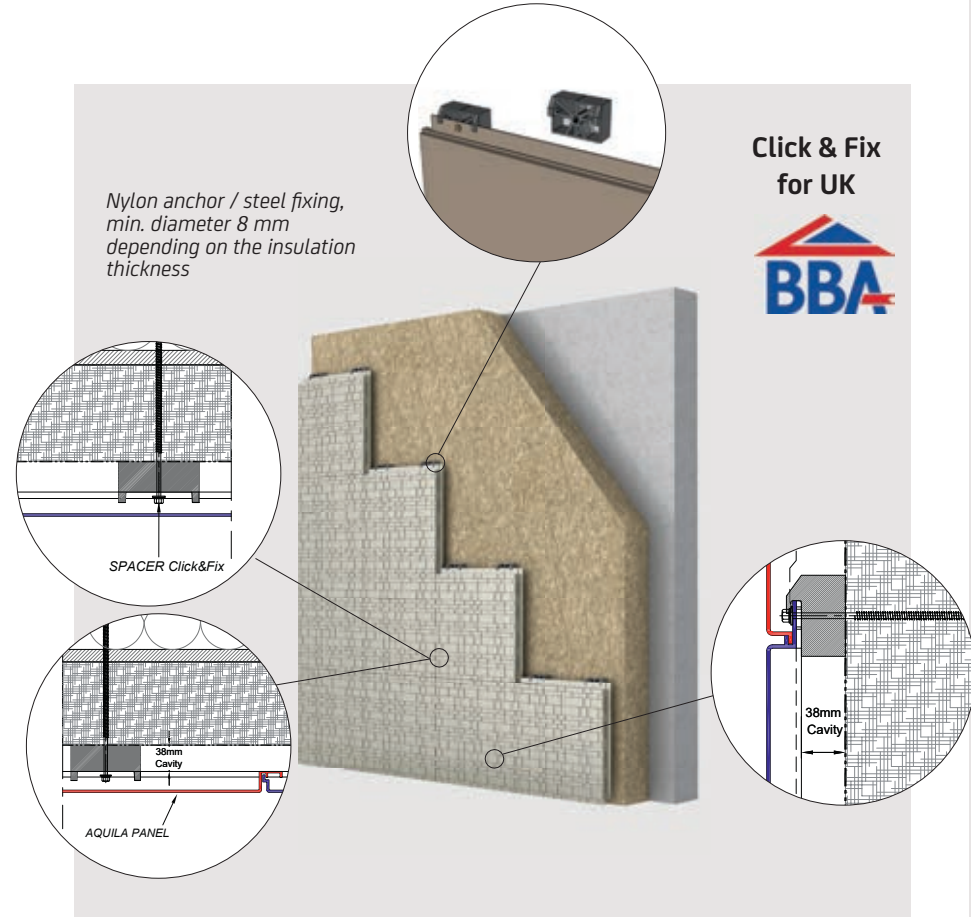
White/gray EPS



Nylon anchor / steel fixing,
min. diameter 8 mm
depending on the insulation
thickness



Click & Fix
for UK



SPACER Click&Fix

38mm
Cavity

AQUILA PANEL

CAREA Interlocking: The technique

technical specifications

TECHNICAL SPECIFICATIONS ALPHA								
Finishes	Panel dim. WxH (in mm)	Thickness (in mm)		Weight m ² in kg (without insulation)		Joint dimensions WxD (in mm)	Nb of panels per m ²	Nb of fastenings per m ²
		Standard	Heavy (Q4)	Standard	Heavy (Q4)			
Pierre du Sud							5,76	11,5
							3	6
Pierre de Loire	510 x 340 700 x 470	3	5	7	12	6 x 4	5,76	11,5
							3	6
Smooth							5,76	11,5
							3	6
Magma							3	6
Graf Slate	630 x 510	3		7,8	9,3	3 x 4	3	6
Graf 900	650 x 520	5			14,7	8 x 12	3	6
Graf 100	600 x 600	3	5	9,7	14,2	Joint 0	2,78	5,5
Graf 200								

TECHNICAL SPECIFICATIONS AQUILA								
Finishes	Panel dim. WxH (in mm)	Thickness (in mm)		Weight m ² in kg (without insulation)		Joint dimensions WxD (in mm)	Nb of panels per m ²	Nb of fastenings per m ²
		Standard	Heavy (Q4)	Standard	Heavy (Q4)			
Pixel	600 x 1200 1200 x 600 1350 x 600	4		9		6 x 15	1,38 1,24	4,15 à 6,9 3,7 à 6,15
Carvi				12,5	13 13			
Dune				5	12,5			
Smooth	600 x 600 600 x 300	2,8					2,78 5,56	5,5 11
	600 x 1200 1200 x 600 1350 x 600	4		9	12,5		1,38 1,24	4,15 à 6,9 3,7 à 6,15

CAREA Interlocking: Substrates

Concrete / Masonry

WFC

CLT

Cladding deck

CWB



CWOB



Metsec CWB & CWoB



EUROCLASS A2-s1,d0

	Load-bearing wall				
Systems	Concrete Masonry	WFC Wood Frame Construction	CLT Solid wood	Cladding deck	Fire compliance
CAREA [®] Interlocking	CWB CWoB	CWB CWoB	CWB	CWB	CWB without flashing - CWoB without flashing EUROCLASS A2-s1,d0

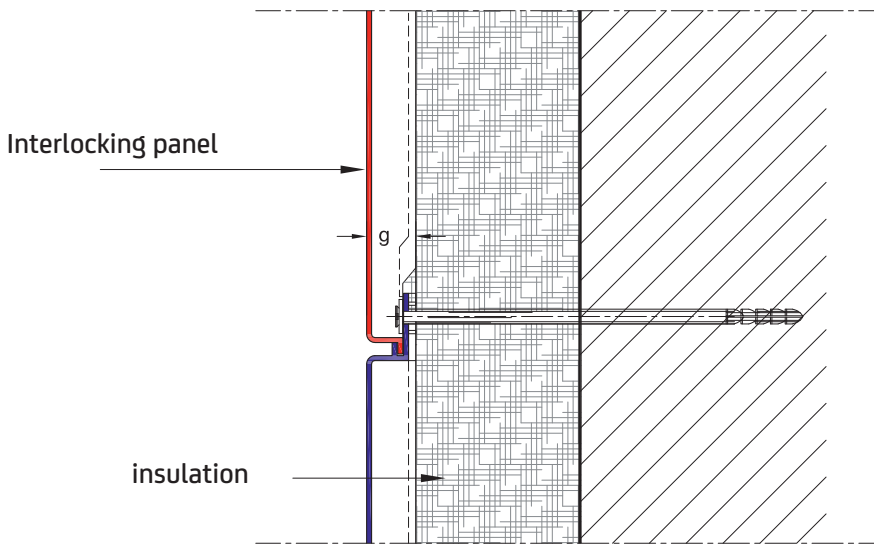
CWB: Cladding With Backing structure

CWoB: Cladding Without Backing structure

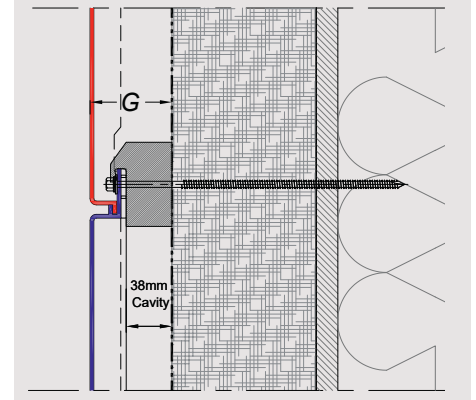
CAREA Interlocking: Basic cuts

CWoB (Cladding without backing structure)

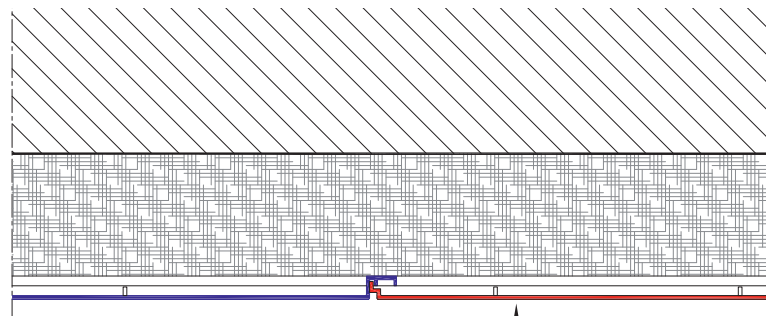
Vertical section



Click & Fix
for UK



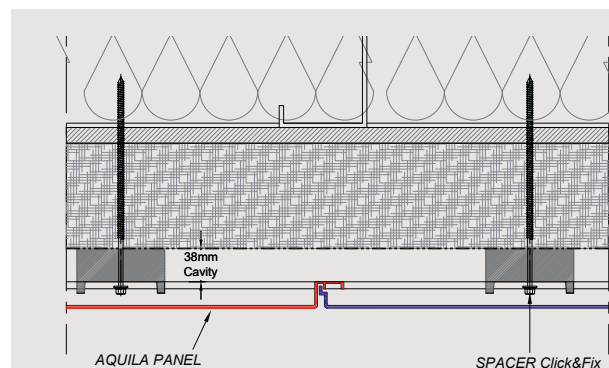
Horizontal section



Installation from left to right

Interlocking panel

Click & Fix
for UK

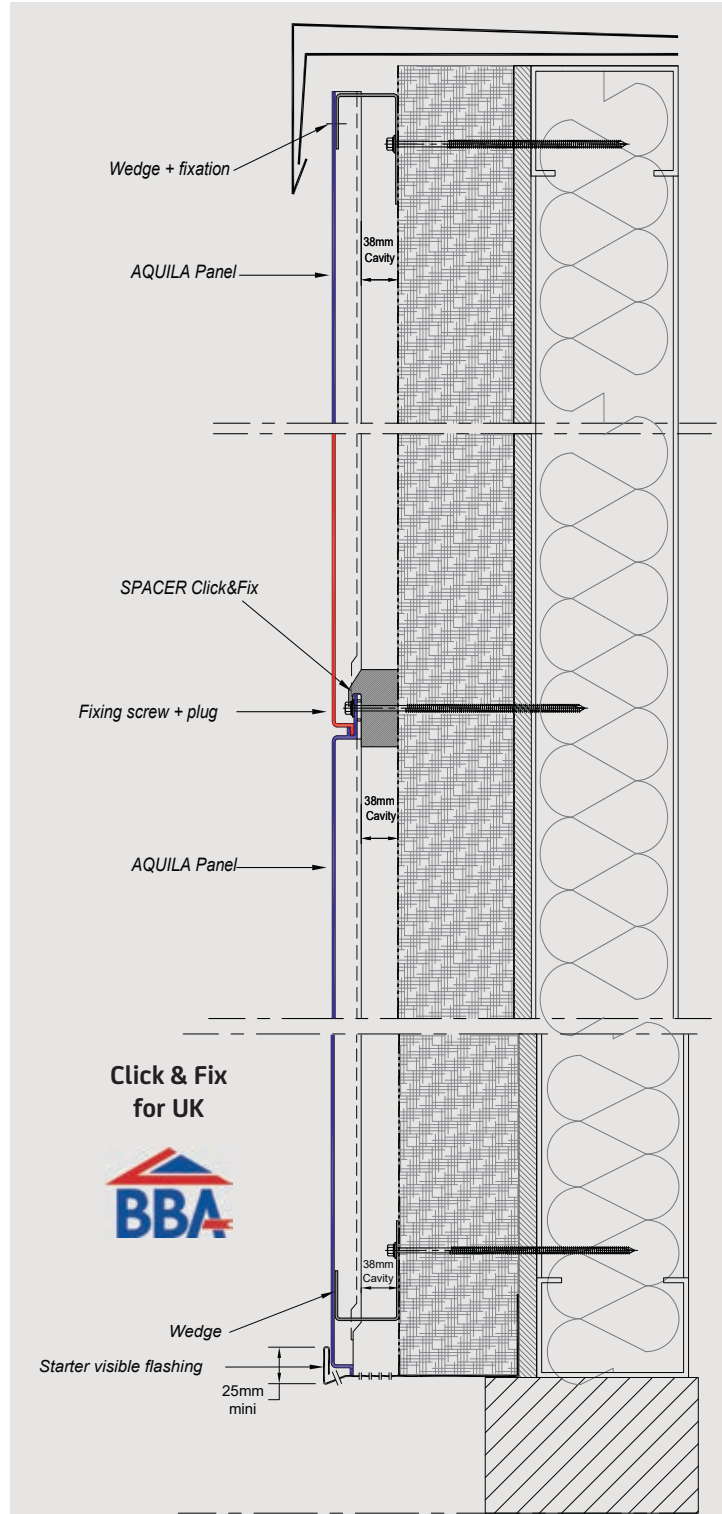
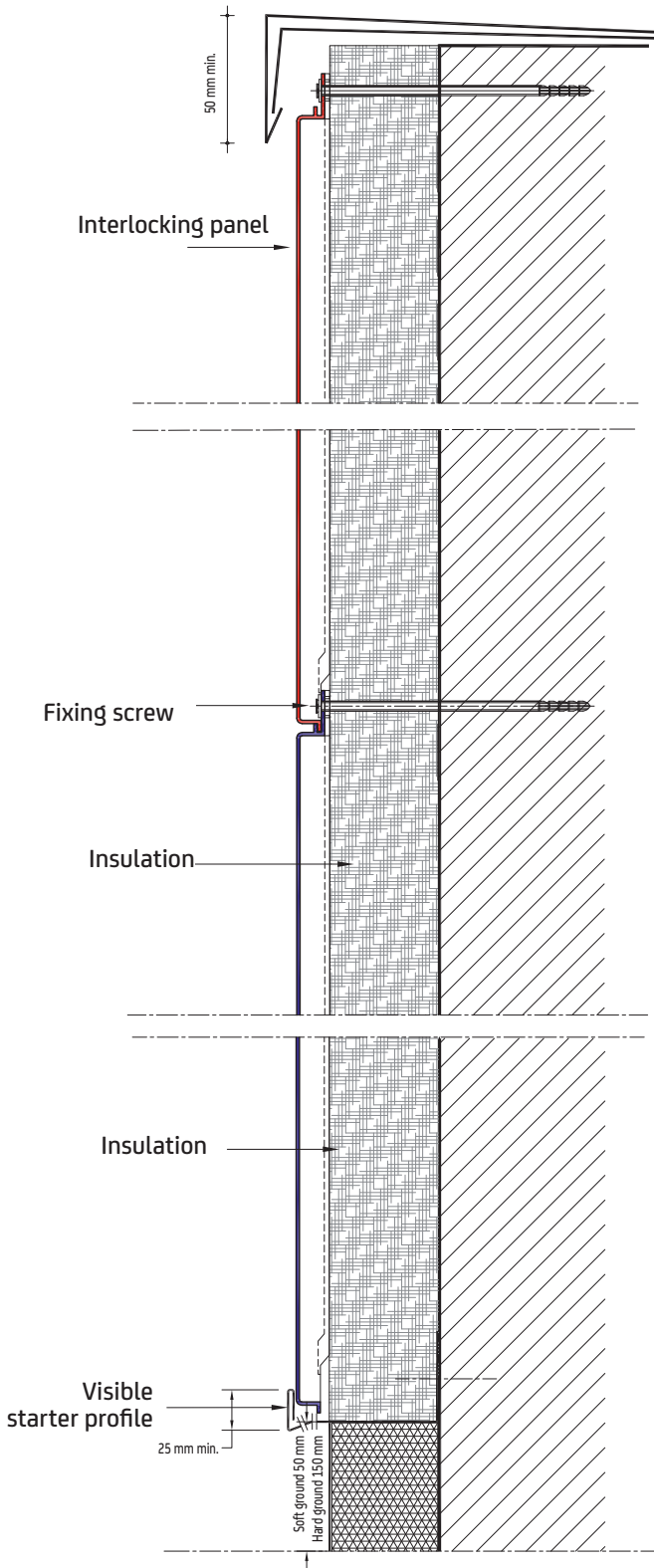




CAREA Interlocking: Starting and top sections

CWoB (Cladding without backing structure)

INTERLOCKING RANGE



CAREA Interlocking: Opening treatments

CW**o**B (Cladding without backing structure)

INTERLOCKING RANGE

Lintel section

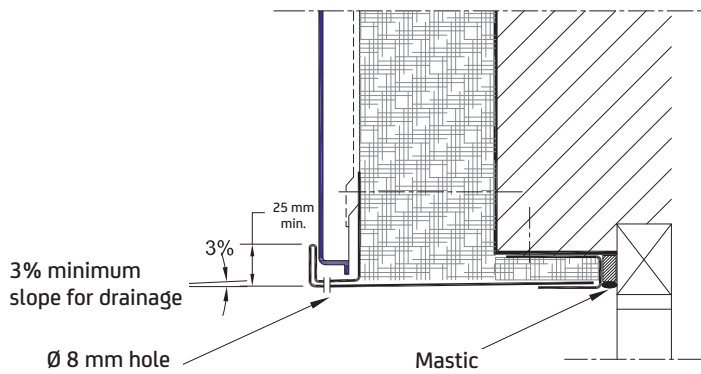
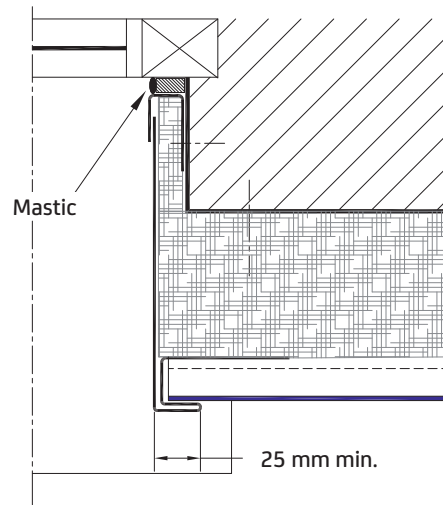


Table cross section



Sill section

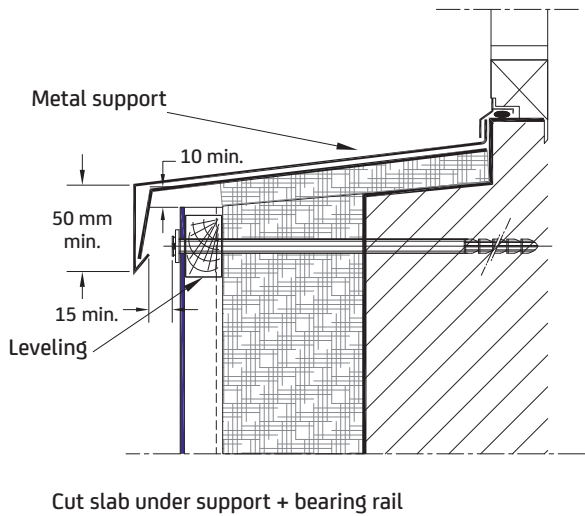
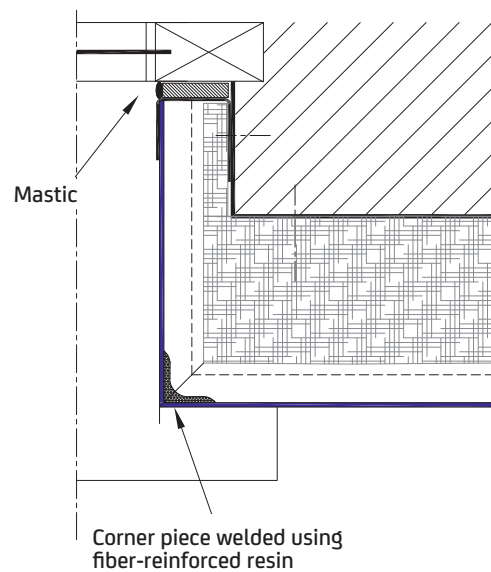
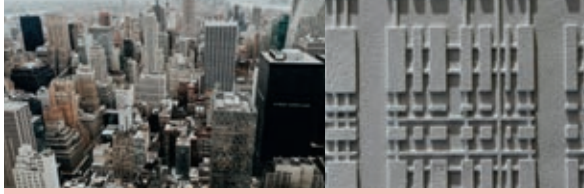


Table cross section





CAREA Interlocking: Corners

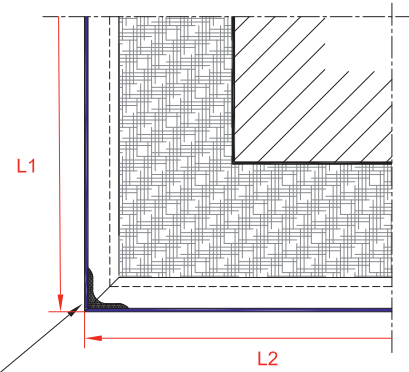
treatments CWoB

CWoB

(Cladding without backing structure)

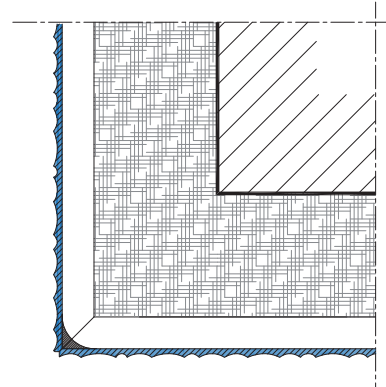
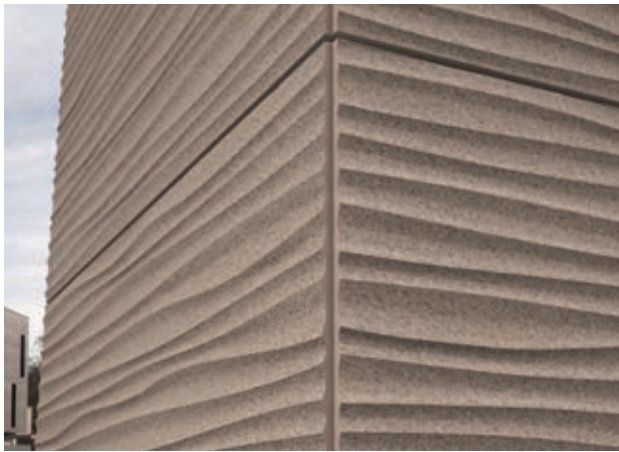
Single block bonded corner (BC)*

*Made on site by the company

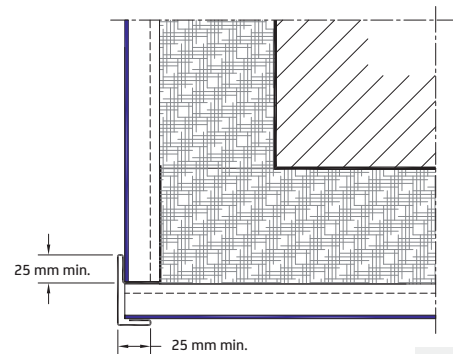
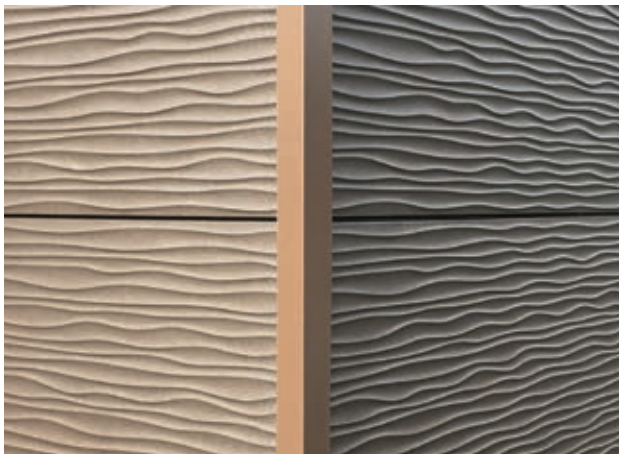


Maximum leg length =
 $L1 + L2 = 1350 + 1350 \text{ mm}$
Minimum leg length =
 $L2 \text{ min} \geq 100 \text{ mm}$

Pre-assembled monobloc projecting corner - Treated bevelled cut (TBC)



Folded metal (FM)



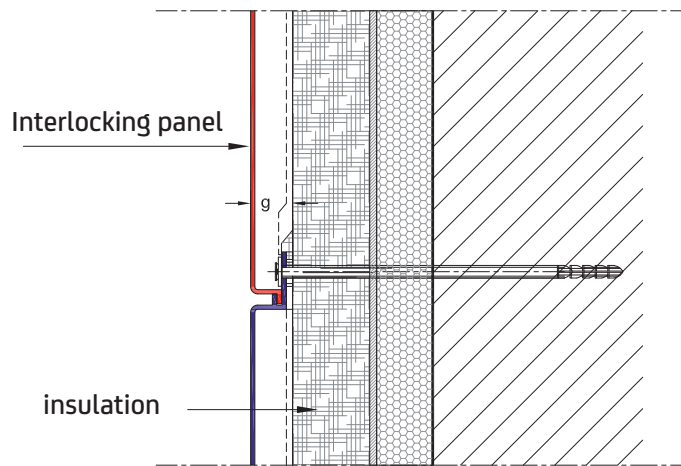
CAREA Interlocking: Installation

with external insulation or re clad

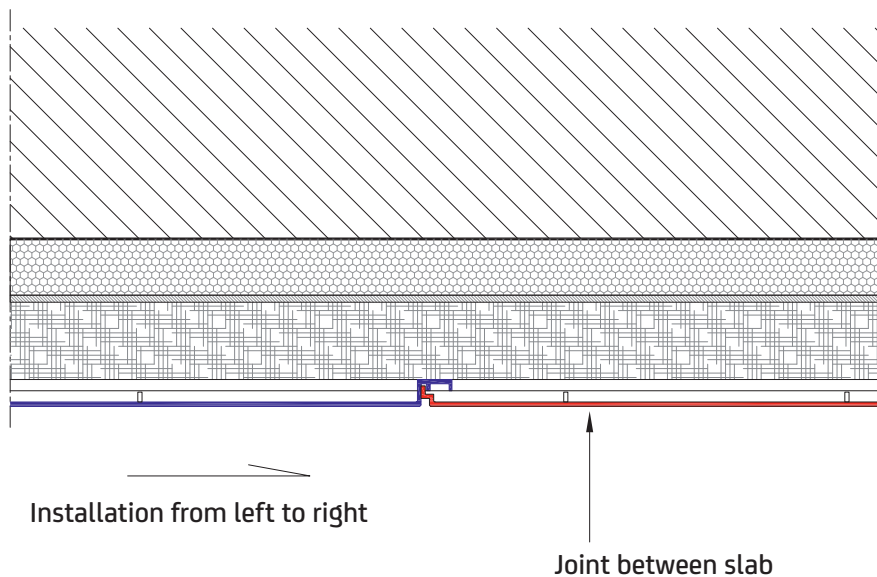
Installing over-insulation or re clad

As part of a renovation project, in order to reduce carbon footprint and decrease energy consumption, the system of Cladding Without Backing structure (CWoB) can also be implemented on an existing plaster or a previous cladding, without removing it: the fixing of the cladding without backing structure goes through the plaster or the previous cladding (cladding and its insulation) to be fixed to the located behind. **In addition to being mor eco-friendly, this system is very cost-effective: it saves the time of removing the old cladding or insulation and avoids issues with waste management on the site and recycling of the old facade, which is like “recycled in situ”: the old system remains in place under the new facade and retains its insulating properties.**

Over-insulation : vertical section view



Over-insulation : horizontal section view

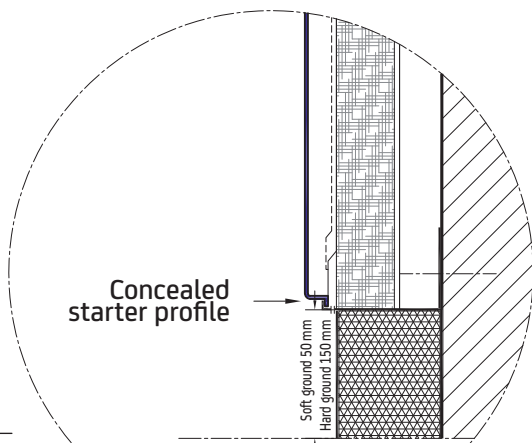
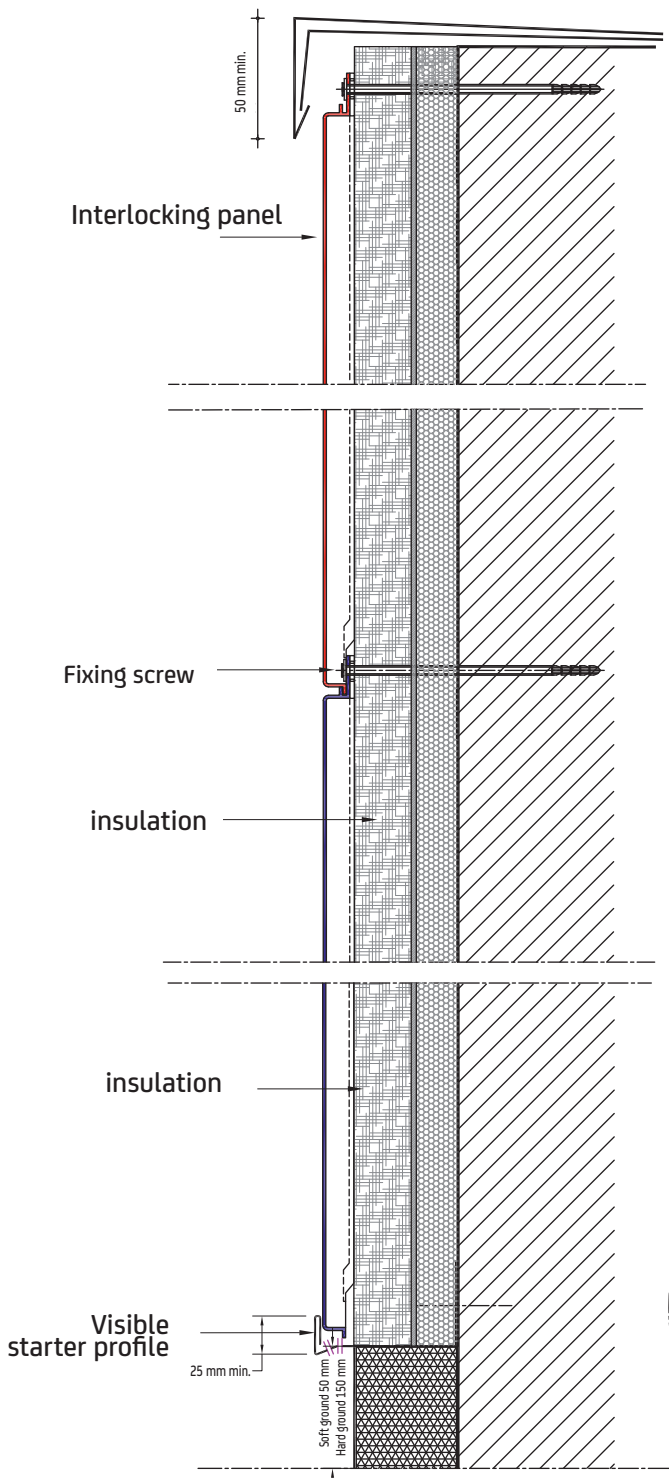




CAREA Interlocking: Installation

with external insulation or re clad

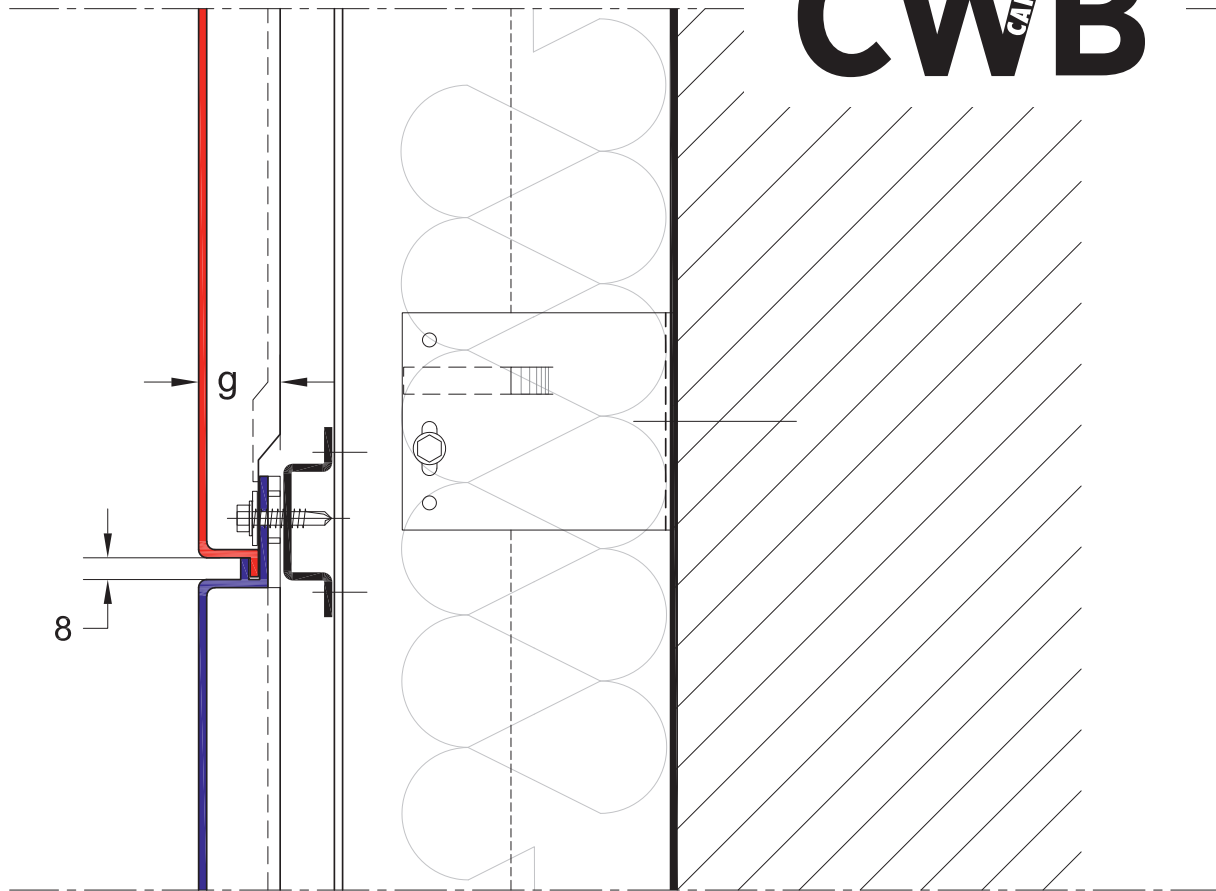
Over-insulation : Start, run and top stop



Alternative solution
with concealed starter profile

CAREA Interlocking:
Complex
Thickness of CWB

INTERLOCKING RANGE



g dimension (in mm)

Total thickness

Products	Finishes	g dimension (in mm)	
		Standard	Heavy (Q4)
ALPHA	SMOOTH	20	22
	PIERRE DU SUD	20	22
	PIERRE DE LOIRE	20	22
	MAGMA	20	22
ALPHA GRAF MONOLITIK	GRAF 100	35	37
	GRAF 200	35	37
	GRAF 900	31	
	GRAF SLATE	23	
AQUILA	SMOOTH	30	31
	DUNE / PIXEL	34	35
	CARVI	32	33

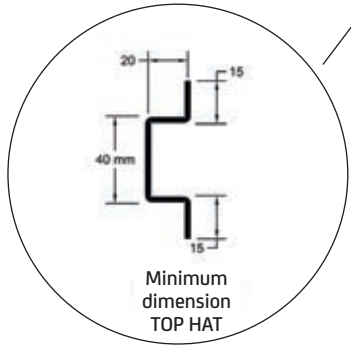
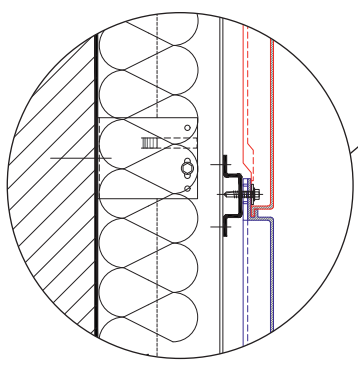
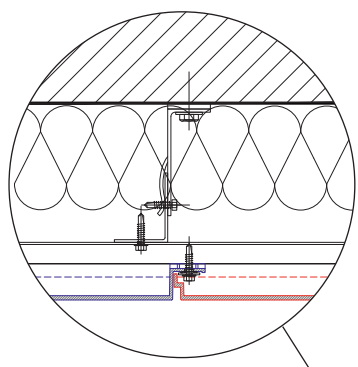


CAREA Interlocking: Installation systems

CWB (Cladding with backing structure)



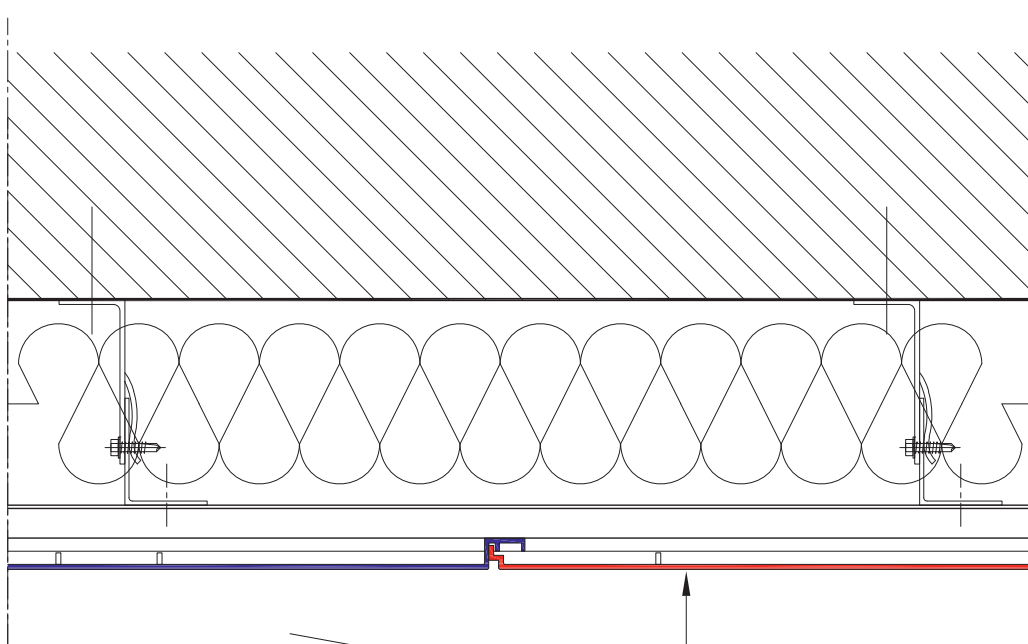
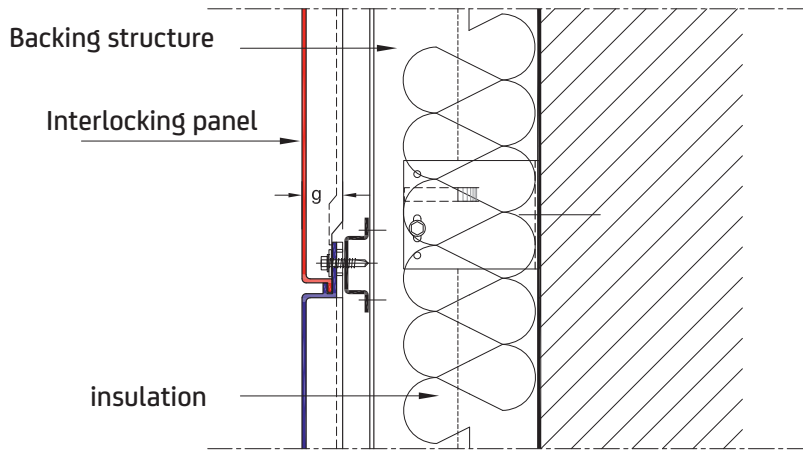
INTERLOCKING RANGE



CAREA Interlocking: Basic cuts

CWB^{CL} (Cladding with backing structure)

Vertical section



Installation from left to right

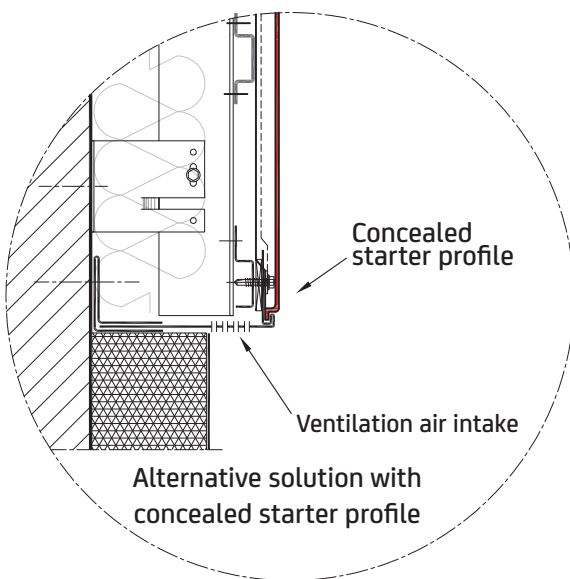
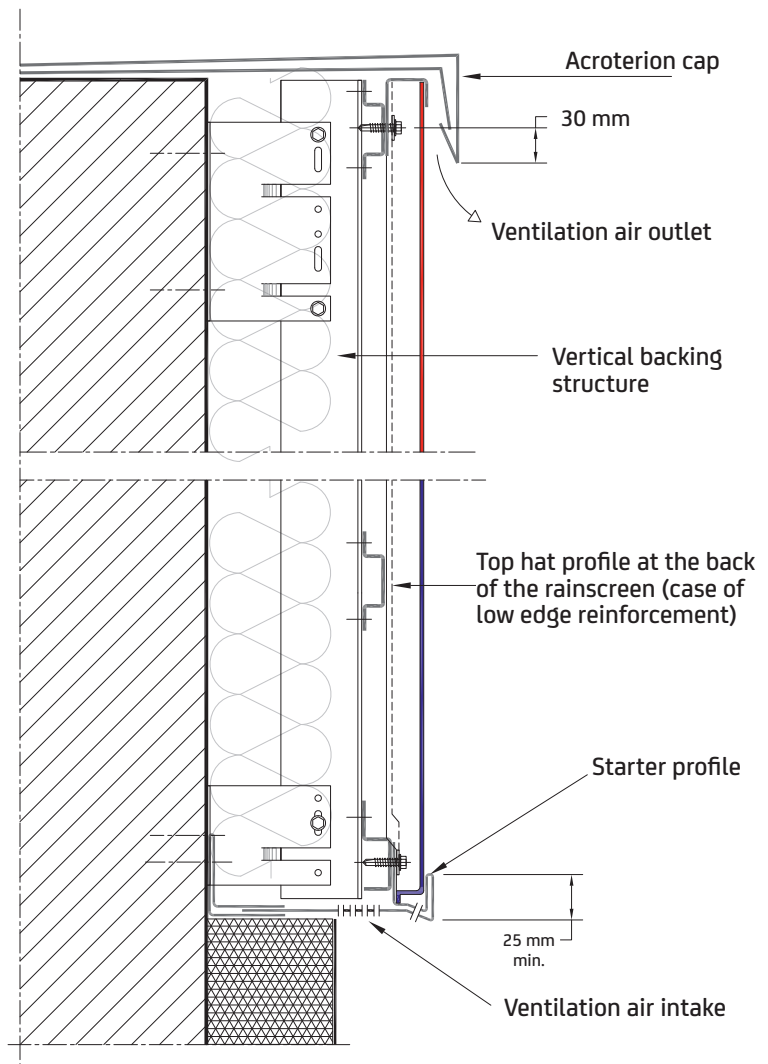
Horizontal section

Joint between slab

CAREA Interlocking: Starting and top sections

CWB (Cladding with backing structure)

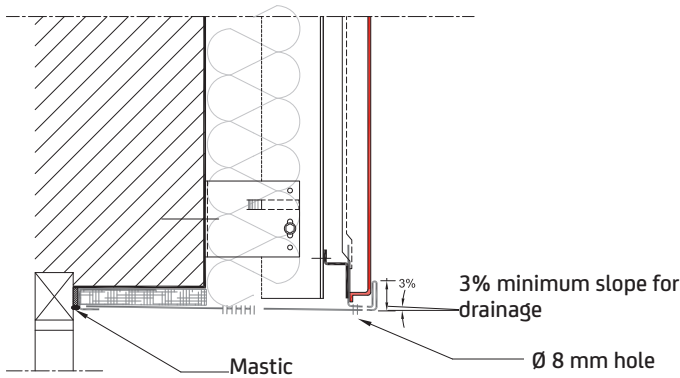
INTERLOCKING RANGE



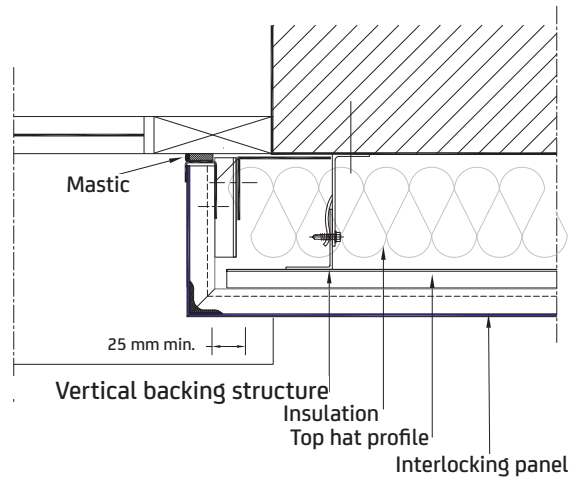
CAREA Interlocking: Opening treatments

CWB (Cladding with backing structure)

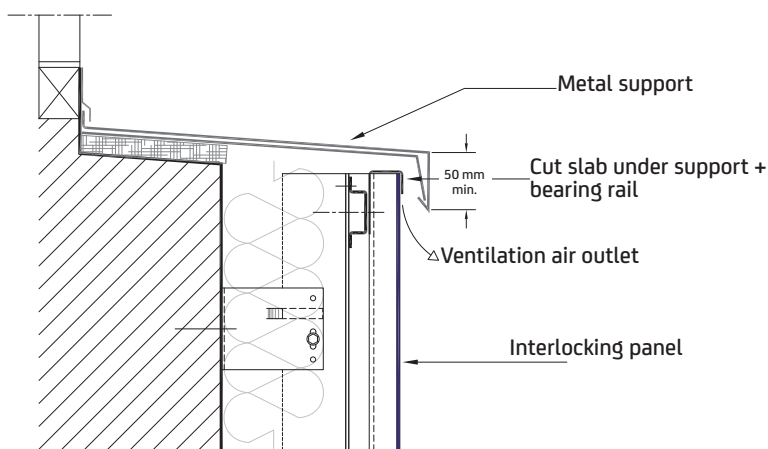
Lintel section



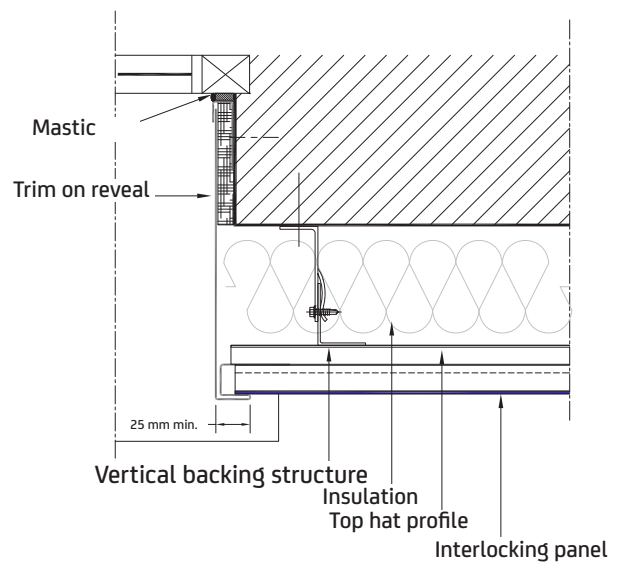
Frame section



Sill section



Frame section





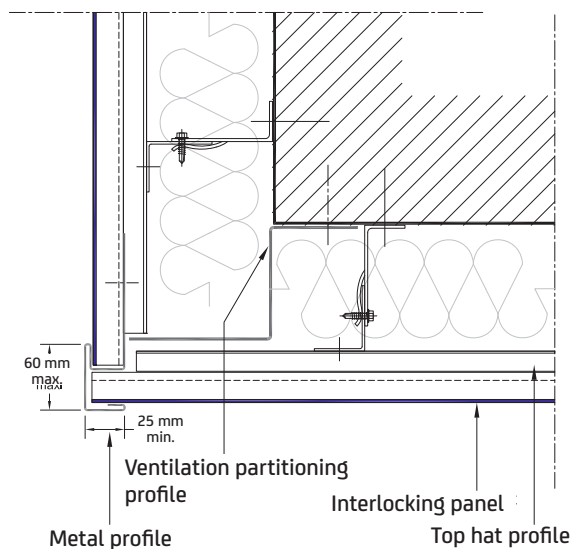
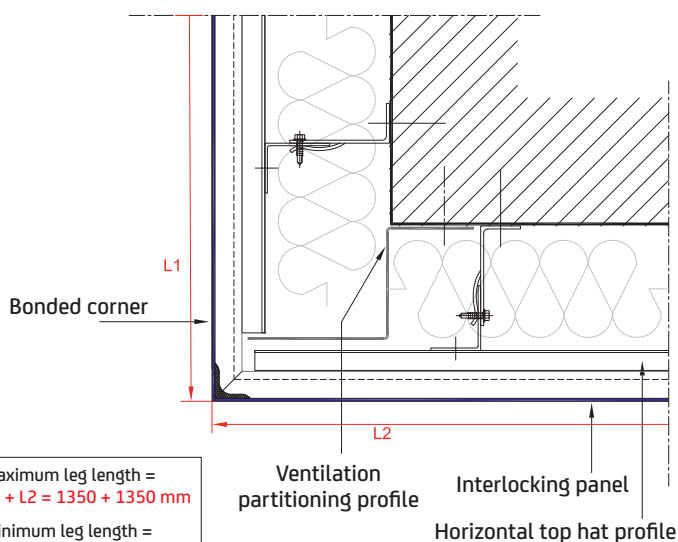
CAREA Interlocking: Corners

treatments CWB

CWB (Cladding with backing structure)

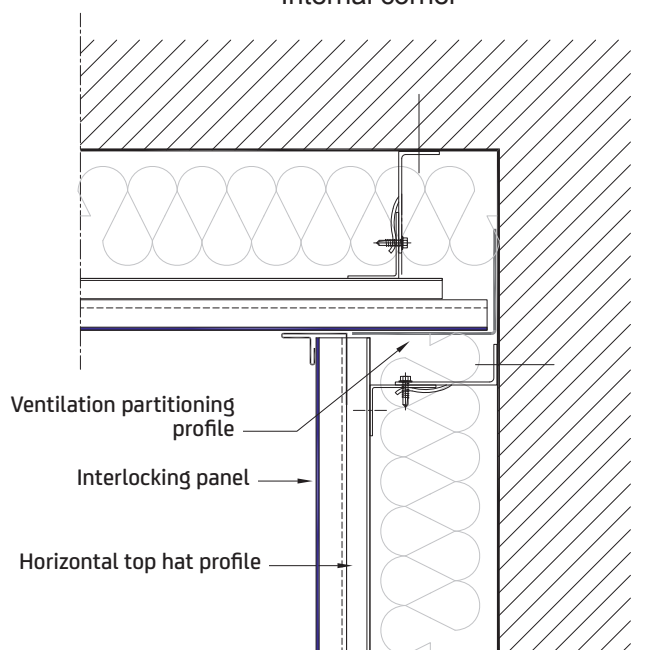
Bonded external corner

External corner, metal profile



Maximum leg length =
 $L1 + L2 = 1350 + 1350 \text{ mm}$
Minimum leg length =
 $L2 \text{ min} \geq 100 \text{ mm}$

Internal corner



CAREA
MINERAL COMPOSITE

30

THE + CAREA GROOVED

- ▶ Architectural aesthetics
- ▶ Wide and deep range (finishes, formats and colours)
- ▶ Non-porous product
- ▶ Invisible fixings
- ▶ Fits on all supports
- ▶ Standard and custom sizes/formats
- ▶ Q4 solution
- ▶ A2-s1,d0 certification

Place Lenôtre housing, Rillieux-la-Pape (FR) #
Architects: Aamco Architectures #
Acantha URBA, Pearl White (9-01) colour

CAREA

GROOVED



SUMMARY

- P 33 ► **Our finishes & formats**
- P 37 ► **Colour chart**
- P 38 ► **Insulation thickness and joint types CWB Horizontal**
- P 39 ► **Installation systems CWB Horizontal**
- P 40 ► **Substrates**
- P 41 ► **Basic cuts CWB Horizontal**
- P 42 ► **Starting and top sections CWB Horizontal**
- P 43 ► **Opening treatments CWB Horizontal**
- P 44 ► **Corners treatments CWB Horizontal**
- P 46 ► **Installation systems CWB Vertical**
- P 47 ► **Zero joint on vertical installation**
- P 48 ► **Insulation thickness and joint types CWB Vertical**
- P 49 ► **Basic cuts CWB Vertical**
- P 50 ► **Starting and top sections CWB Vertical**
- P 51 ► **Opening treatments CWB Vertical**
- P 52 ► **Corners treatments CWB Vertical**
- P 55 ► **Installation system CWoB Horizontal**
- P 56 ► **Basic cuts CWoB Horizontal**
- P 57 ► **Starting and top sections CWoB Horizontal**
- P 58 ► **Opening treatments CWoB Horizontal**
- P 59 ► **Corners treatments CWoB Horizontal**
- P 60 ► **Installation systems CWoB Vertical**
- P 64 ► **Basic cuts CWoB Vertical**
- P 62 ► **Starting and top sections CWoB Vertical**
- P 63 ► **Opening treatments CWoB Vertical**
- P 64 ► **Corners treatments CWoB Vertical**

GROOVED RANGE

Villefix residence, Noisy-le-Grand (FR) #
Architects: Coda Lair et Roynette Architectes #
Ardal SMOOTH MATT, RIVEN & SHELL, Nutmeg (1-53) colour



CAREA Grooved: Our finishes

Finishes & formats,
standard (Lxh in mm)

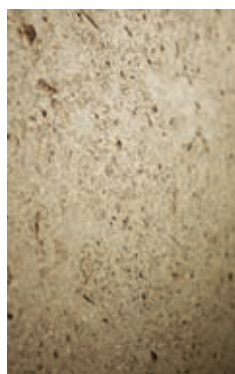


ARDAL 11 mm

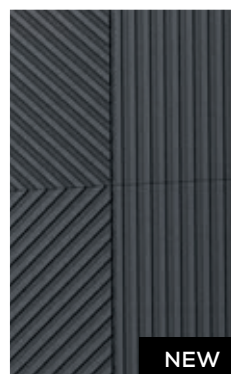
23 SIZES

(L-grooved edge x h in mm)

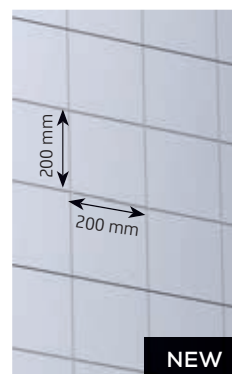
1200 x 600	550 x 900
900 x 900	500 x 900
x 600	450 x 900
x 550	x 450
x 500	400 x 600
x 450	300 x 900
x 300	x 600
x 200	250 x 600
600 x 900	200 x 600
x 600	
x 400	
x 300	
x 250	
x 200	



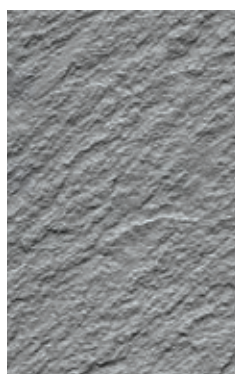
SHELL -
Mineral



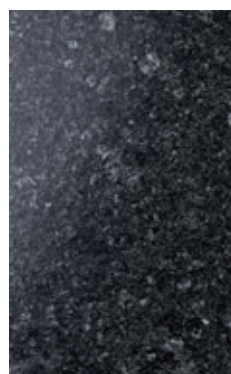
MECA -
Graphic
Single format
900 x 900 mm



CUADRA -
Graphic
Single format
1200 x 600 mm



RIVEN -
Mineral



GLOSSY -
Urban



SMOOTH MATT -
Urban

GROOVED RANGE

ARDAL: 11 mm nominal thickness panels

· Surface mass 25 kg/m² (varies from +9.8 kg/m² to -3.7 kg/m² depending on the finish)

ACANTHA: 14 mm nominal thickness panels

· Surface mass 31.5 kg/m² (varies from +2.7 kg/m² to -2.4 kg/m² depending on the finish)

Textured ACANTHA: 16 mm nominal thickness panels

· Surface mass 32.5 kg/m² (varies from +8 kg/m² to -3.4 kg/m² depending on the finish)

ARMADA: 21 mm nominal thickness panels

Panels for exposed ground floor, smooth to heavily structured finish with a surface mass of 45.5 kg/m² (varies from +7.5/-12 kg/m² depending on the finish)



See
colour
chart

P37

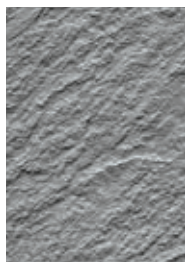


CAREA Grooved: Our finishes

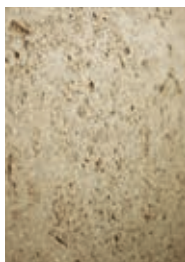
Finishes & formats,
standard and custom (Lxh in mm)



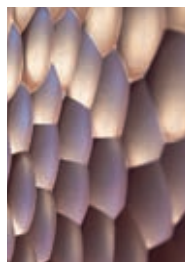
ARMADA 21 mm



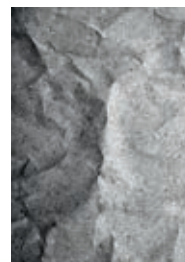
RIVEN -
Mineral



SHELL -
Mineral



MOON -
Organic

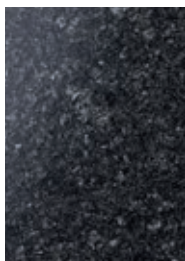


RHODES -
Organic

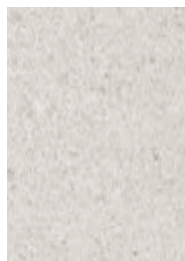


URBA -
Urban

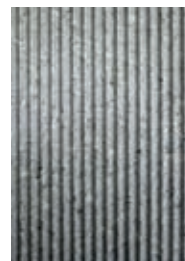
Standard : 3000 x 900 mm
and submultiples.
Custom sizes available.*



GLOSSY -
Urban



SMOOTH MATT -
Urban



TAÏGA -
Graphic



PAPYRUS -
Organic

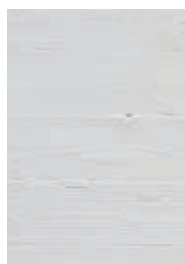
FINISHES WITH SPECIFIC FORMAT



FLUTED -
Graphic

Max.:
1270 x 600 mm

Ridges
perpendicular to
the grooved edge



WOOD -
Organic

Max.:
2379 x 600 mm



GLASS PASTE -
Organic

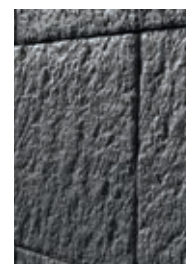
Max.:
1560 x 600 mm

FIXED SIZES



SCHISTE -
Mineral

595 x 245 mm
495 x 495 mm
745 x 495 mm
995 x 495 mm



CAUCASE -
Mineral

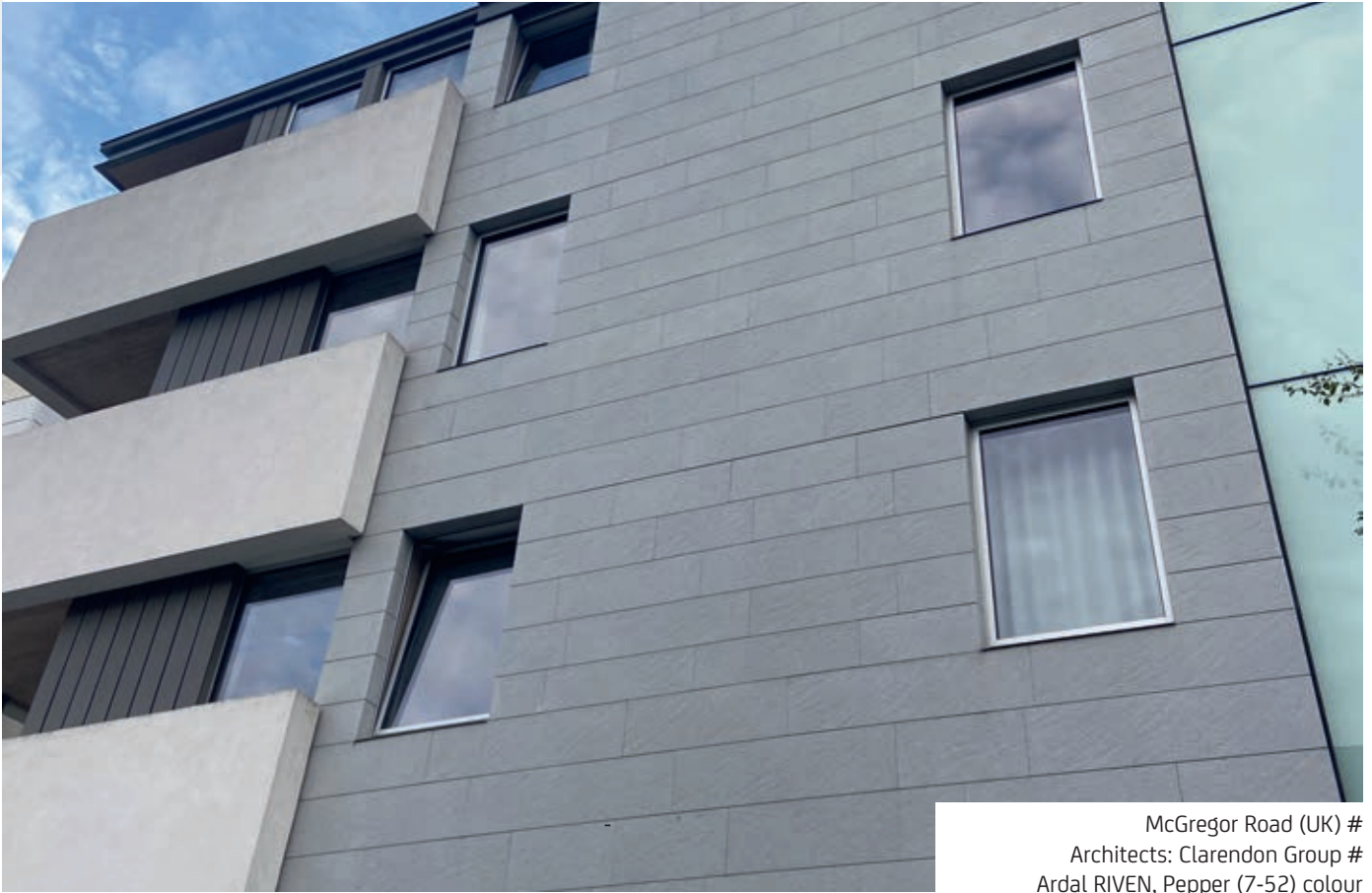
595 x 495 mm
495 x 395 mm



See
colour
chart

P37

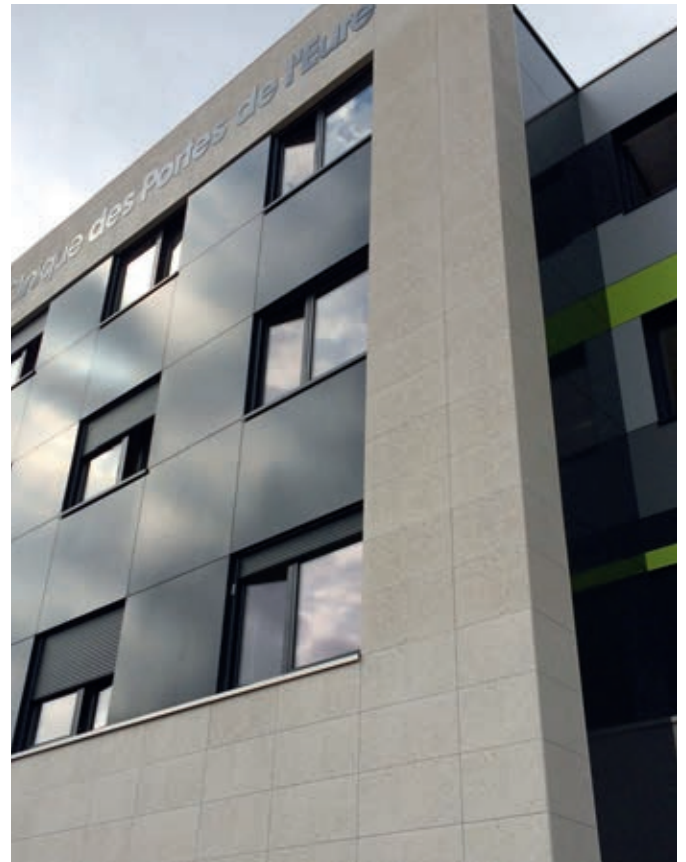
*No sub-formats or custom sizes for order below 300 m²



McGregor Road (UK) #
Architects: Clarendon Group #
Ardal RIVEN, Pepper (7-52) colour



Hospital Clairval, Marseille (FR) #
Architects: Rigal et Bargas Architectes #
Ardal SHELL, custom colours



Clinic portes de l'Eure, Vernon (FR) #
Architects: AACD #
Ardal SHELL, Speckled White (9-50) colour

Carea Horizontal Grooved



CAREA Grooved: Colour chart

BEIGE YELLOW

Greige 1-01	Samoa 1-50
Brown Oxide 1-02	Sepia 1-51
Chalk 1-03	Linen 1-52
Sand 1-04	Nutmeg 1-53
Zinc Yellow 1-05	Sahara 1-54
Ambre 1-06	Alpaca 1-55

ORANGE RED PURPLE

Clementine 2-01	Bordeaux 3-02
Crimson Red 3-01	Fuchsia 4-01

BLUE

Turquoise 5-01	Cobalt 5-50

GREEN

Apple 6-01	Chrome Green 6-04
Pine Green 6-02	Fern 6-50
Clay Green 6-03	

BROWN

Chocolate 8-01	Terracotta Tile 8-50
Foal 8-02	Mocha 8-51
Terracotta 8-03	Cappuccino 8-52
Earth 8-04	

WHITE GREY BLACK

Lead 7-01	Pepper 7-52	Night 9-05
Anthracite Grey 7-02	Galapagos 7-53	Black 9-06
Slate Grey 7-03	Asphalt Grey 7-54	Speckled White 9-50
Grain Grey 7-04	Pearl White 9-01	Marble White 9-51
Quartz Grey 7-05	White 9-02	Granite 9-52
Cloud Grey 7-06	Foam White 9-03	Volcano 9-53
Sleet 7-50	Ice White 9-04	Galaxy 9-54
Lava Stone 7-51		

IRIDESCENT

Sunset 10-01	Tropical Forest 10-03
Lilac 10-02	Ocean 10-04

METALLIC – HAMMERED

Green-Brown Metal 11-01	Copper 11-03	Rainbow Grey 11-05	Hammered Black 11-07
Gold 11-02	Silver Grey 11-04	Hammered Brown 11-06	Hammered Silver 11-08

Any special colour can be studied

Despite all the care taken in printing this document, slight differences in shades may exist compared to the delivered products. Depending on the lighting of the facade, a slight variation may appear on the cladding.

Codification X-01 to X-49: monochrome shade / X-50 to X-99: speckled shade

CAREA Grooved: Insulation

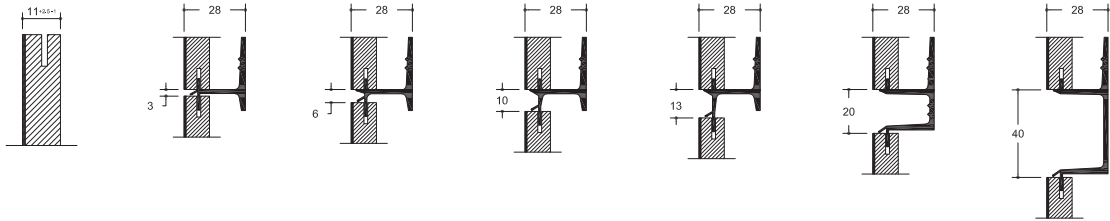
thickness and joint types

CWB^{CAREA} (Cladding with backing structure)

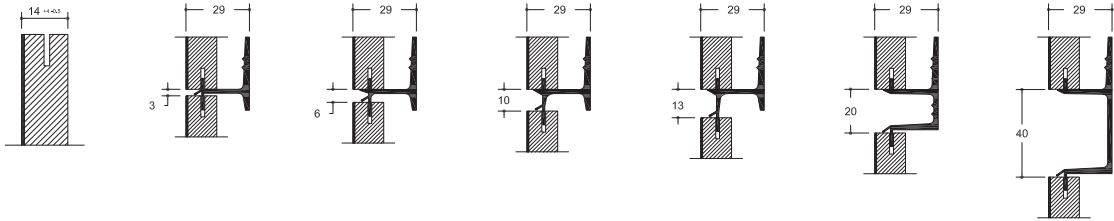
CAREA Horizontal Grooved

Horizontal joint

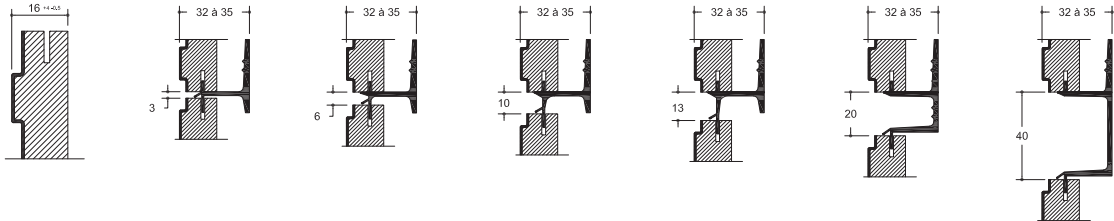
Rail + slab ARDAL



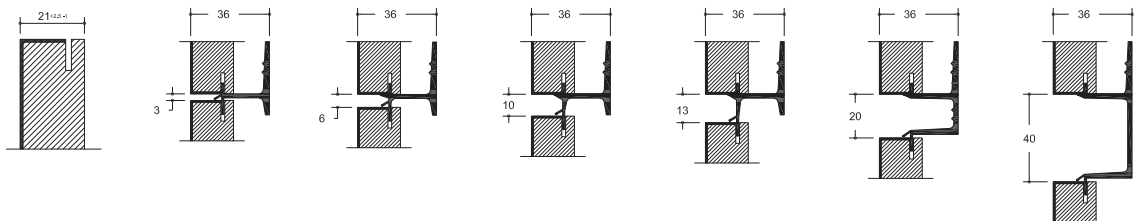
Rail + slab ACANTHA 14



Rail + slab ACANTHA 16

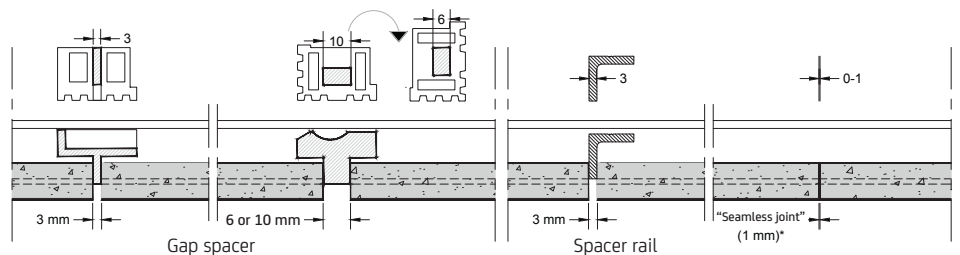


Rail + slab ARMADA 21



Powder coating on rails on demand

Vertical joint



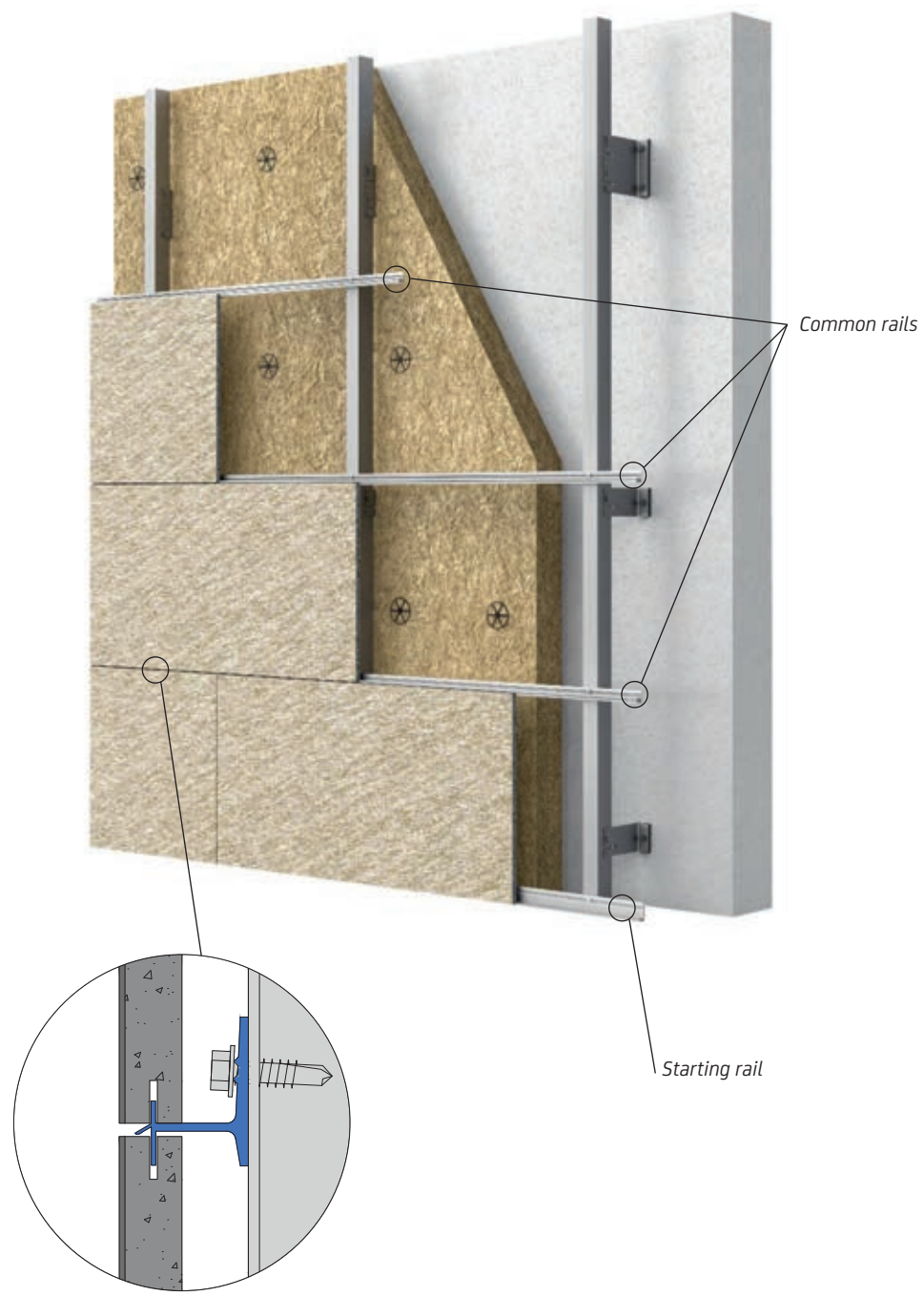
*Specific arrangement. Refer to Technical Agréments.



CAREA Grooved: Installation systems



CWB^{CAREA} (Cladding with backing structure) CAREA Horizontal Grooved



GROOVED RANGE

CAREA Grooved: Substrates

Concrete / Masonry

WFC/CLT: Wood Frame
Construction

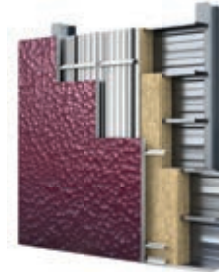
Cladding deck

Metsec

CAREA GROOVED
HORIZONTAL



CAREA GROOVED
VERTICAL



EUROCLASS A2-s1,d0

Systems	Supporting wall						
	Concrete Masonry	WFC Wood Frame Construction	CLT Solid wood	Cladding deck / Metsec	Fire compliance	Q4	Seismic
CAREA [®] Grooved	CWB CWoB	CWB	CWB	CWB	✓ CWB without flashing EUROCLASS A2-s1,d0 *Except Armada	✓	✓

CWB: Cladding With Backing structure

CWoB: Cladding Without Backing structure

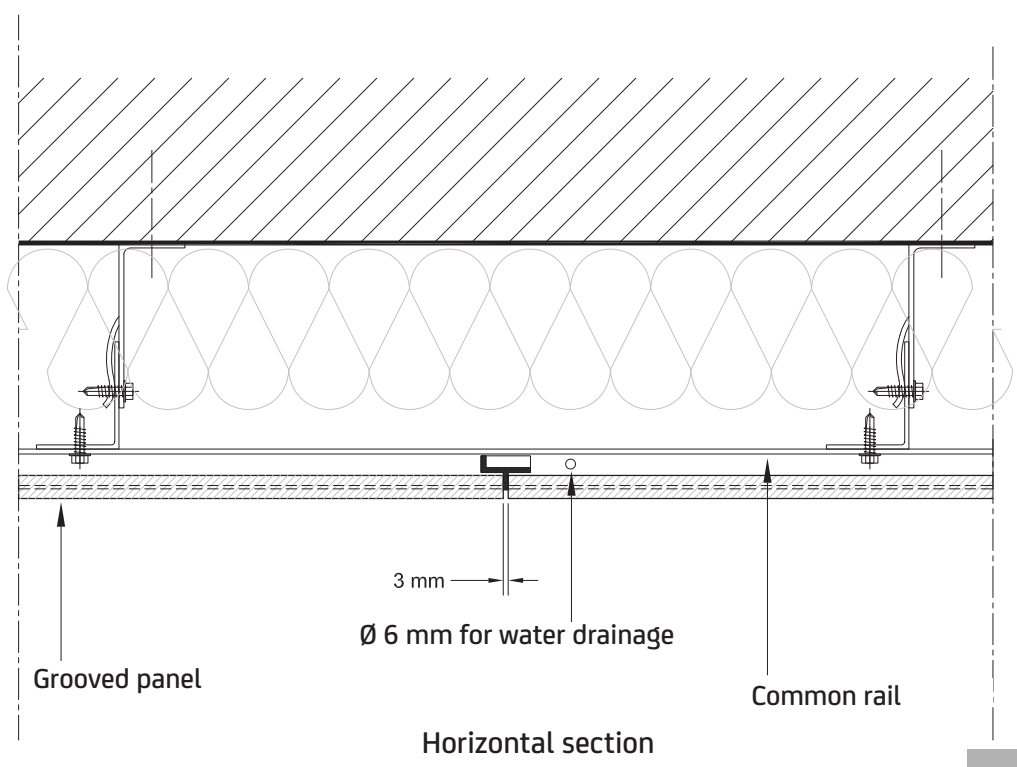
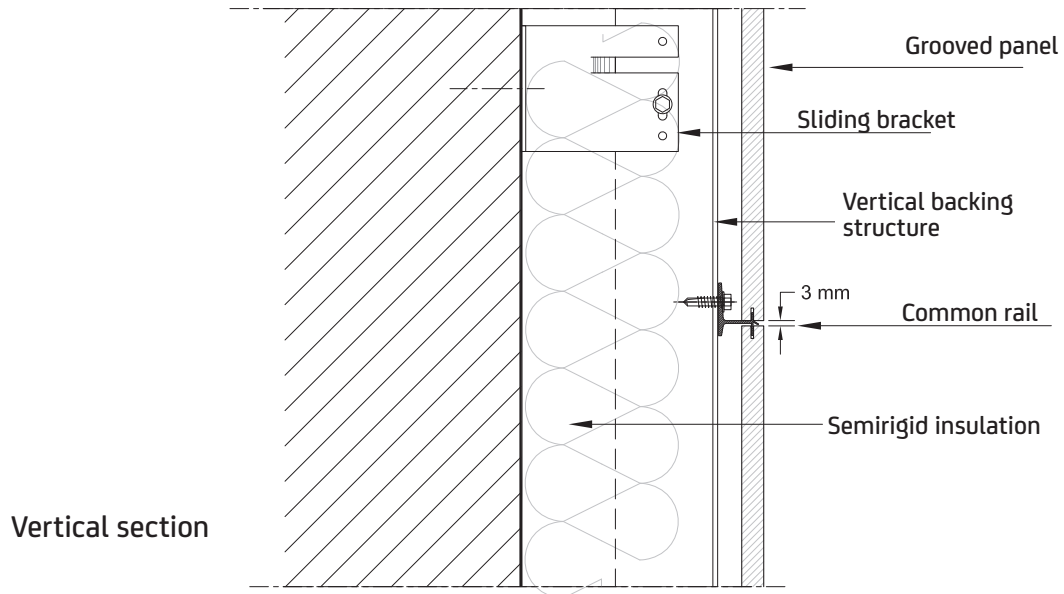


CAREA Grooved:
Basic
cuts



CWB (Cladding with backing structure)

CAREA Horizontal Grooved

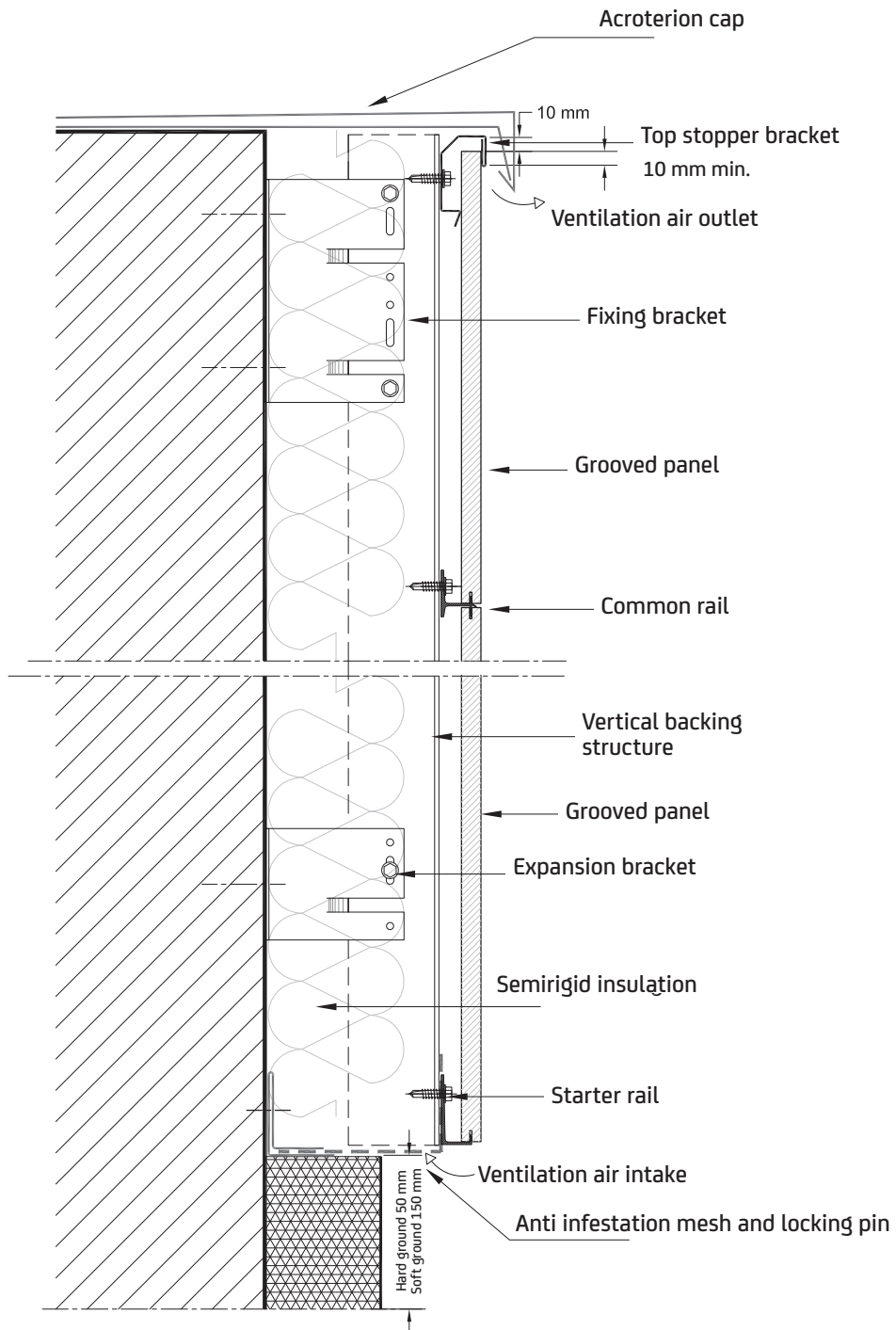


GROOVED RANGE

CAREA Grooved: Starting and top sections

CWB (Cladding with backing structure)

CAREA Horizontal Grooved



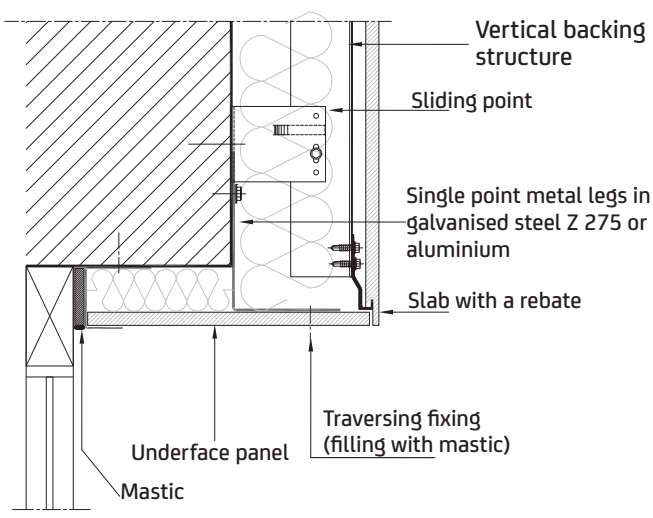


CAREA Grooved: Opening treatments

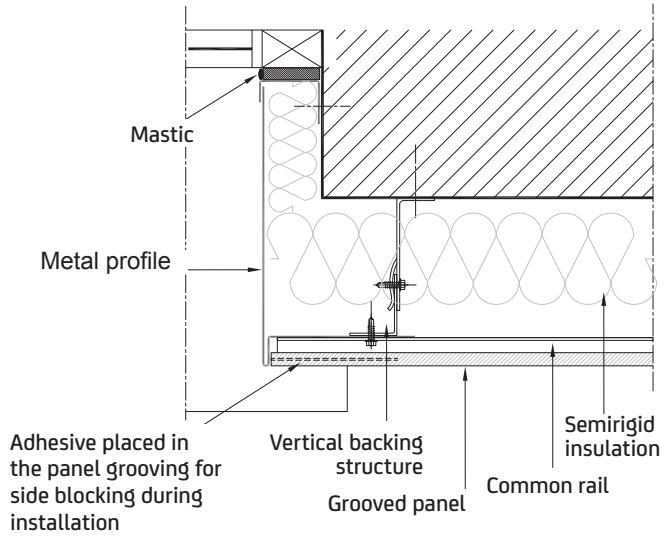
CWB (Cladding with backing structure)

CAREA Horizontal Grooved

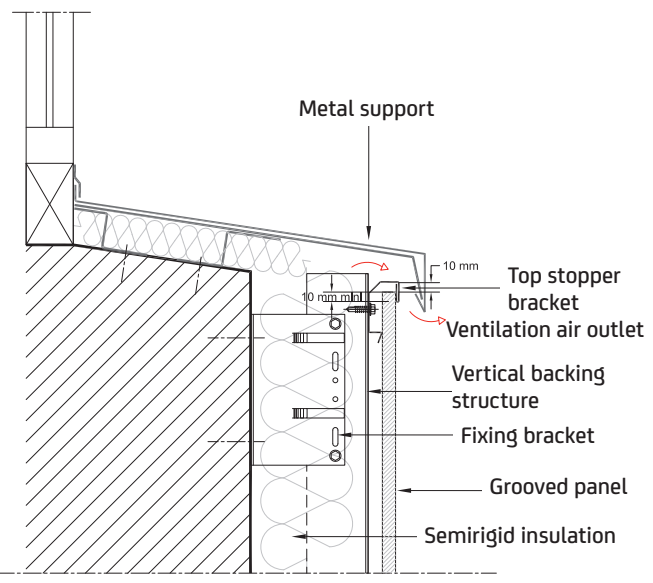
Lintel section



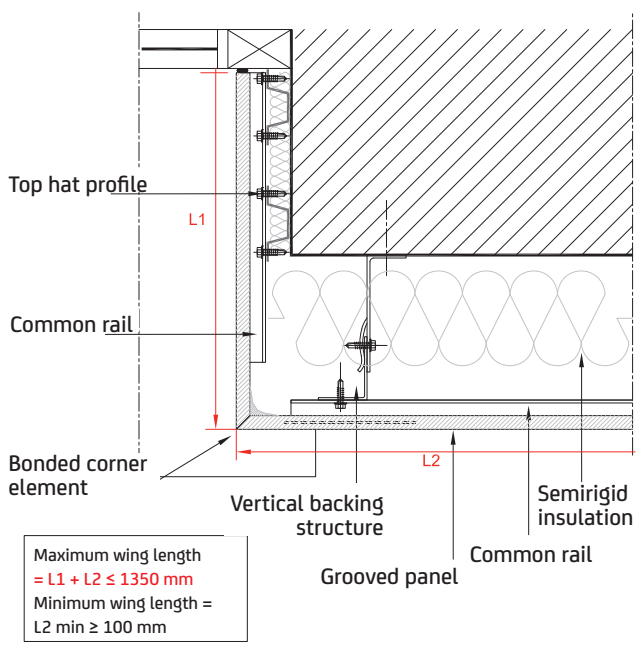
Isolated metal profiled frame section



Sill section



Assembled-glued angle frame section

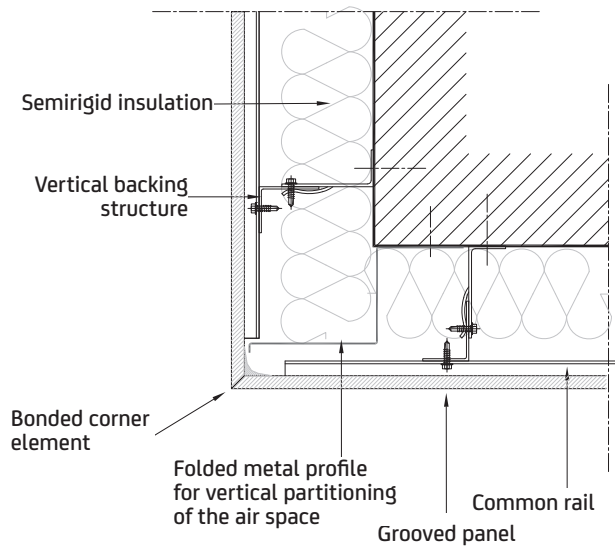


CAREA Grooved: Corners treatments

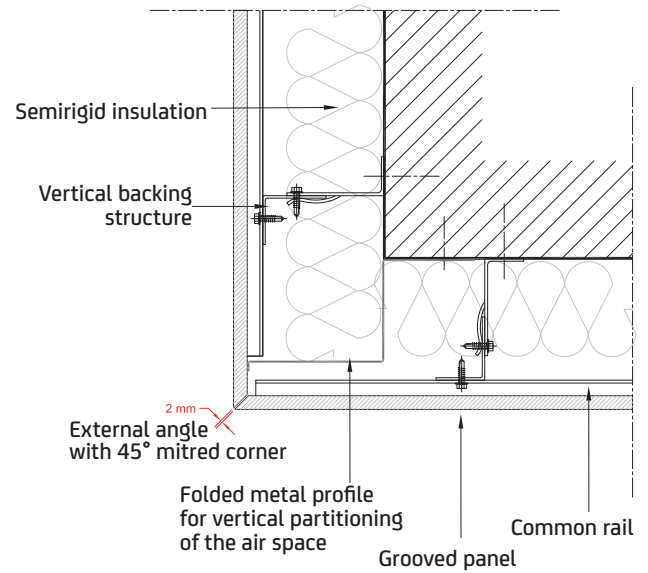
CWB (Cladding with backing structure)

CAREA Horizontal Grooved

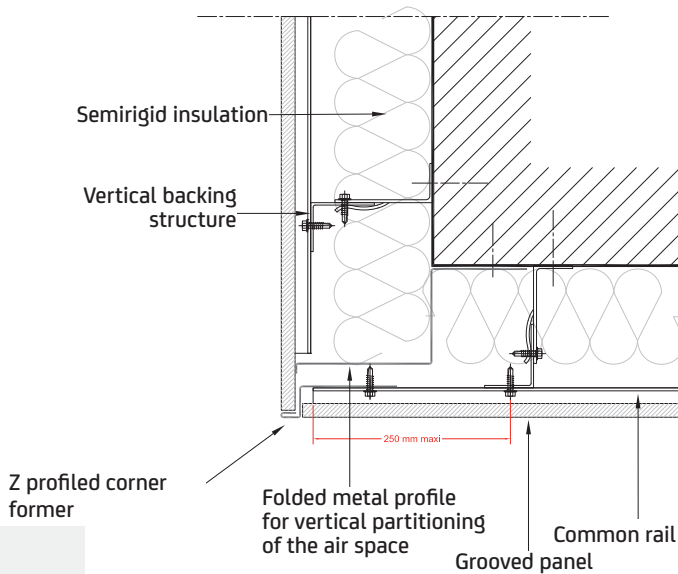
Bonded external corner



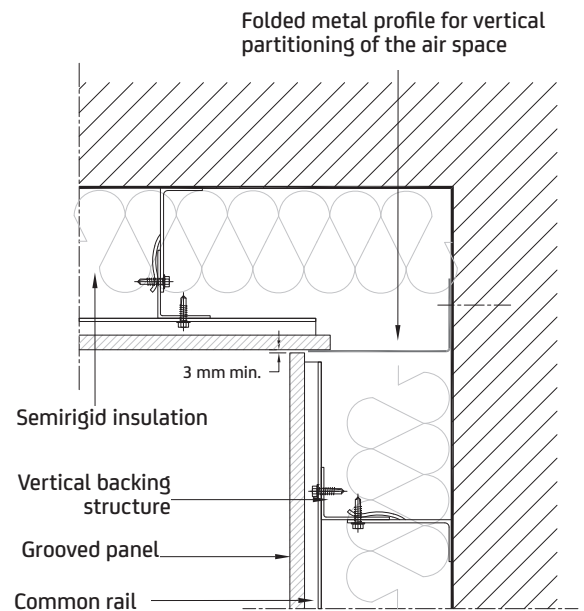
External mitred corner

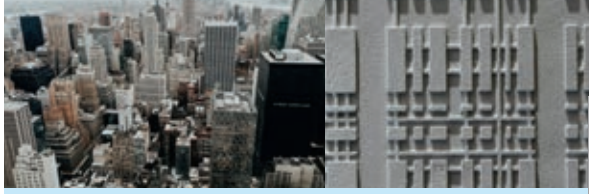


External corner, metal profile



Internal corner





CAREA Grooved: Corners

treatments



Single block bonded corner (BC)*
*Made by the company on site



Mitred corner (MC)



Treated bevelled cut (TBC)



Moulded bevelled cut (MBC)



Folded metal (FM)



Chamfer treated (CT)

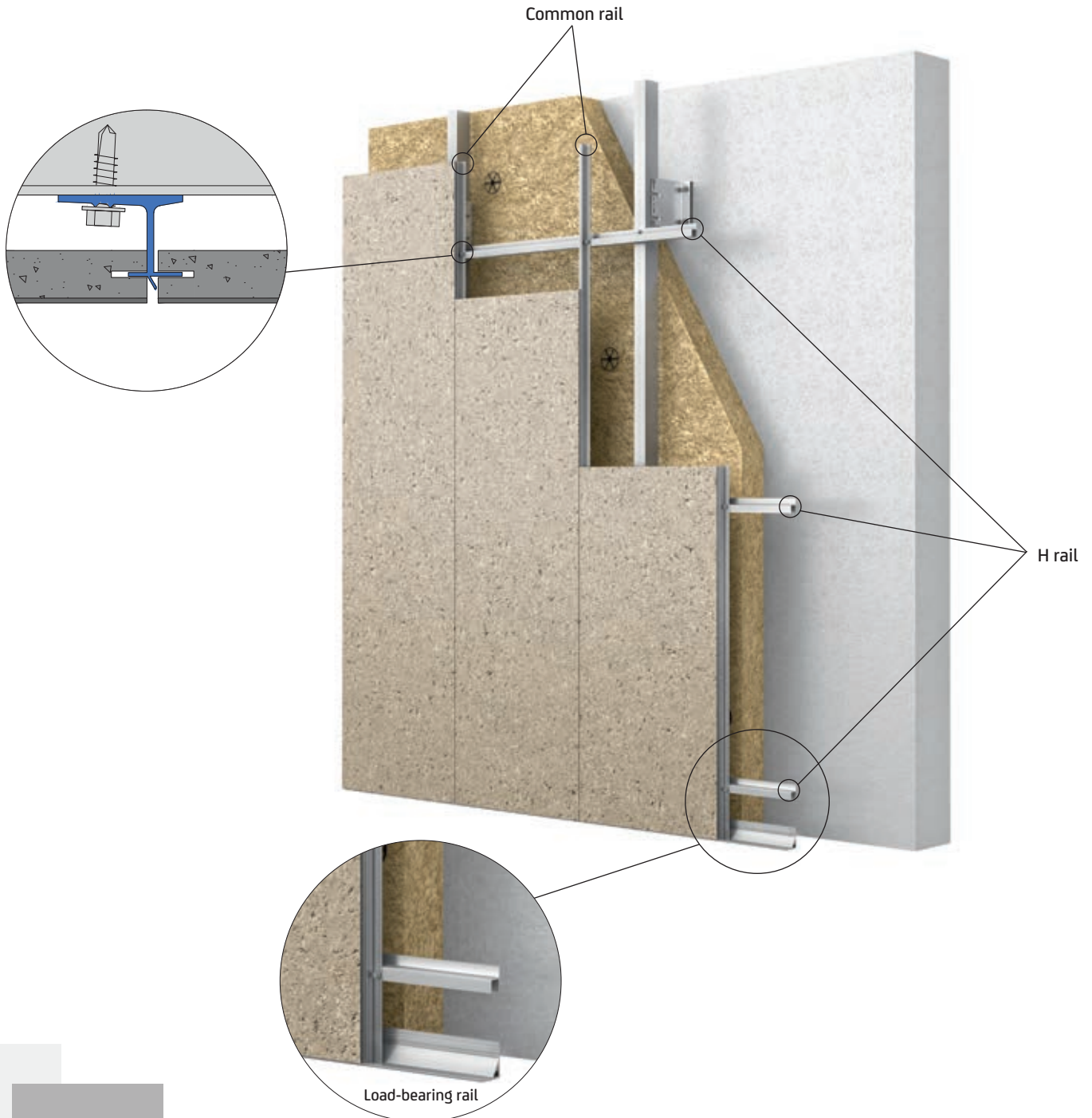
CAREA Grooved: Installations

systems

CWB^{CAREA} (Cladding with backing structure) CAREA Horizontal Grooved



GROOVED RANGE





CAREA Grooved: Zero joint on vertical installation

Allowed stacking heights:

In vertical installation:

The design of the support rail allows for variable height stacking depending on the weight of the slabs.

Technical Assessment 2/14-1659 **allows for support of:**

- 3,00 m of ARMADA at 50 kg/m²
- 4,60 m of ACANTHA between 36 and 43 kg/m²
- 5,90 m of ARDAL at 26 kg/m²



Jules Amilhau residence, Toulouse (FR) #
Architects: Cabinet Diana #
Acantha URBA, Granite (9-52) colour



School Group Simone Veil, Evreux (FR) #
Architects: Lebreton De Coquereaumont Architectes #
Ardal & Acantha SMOOTH MATT, Copper (11-03) colour



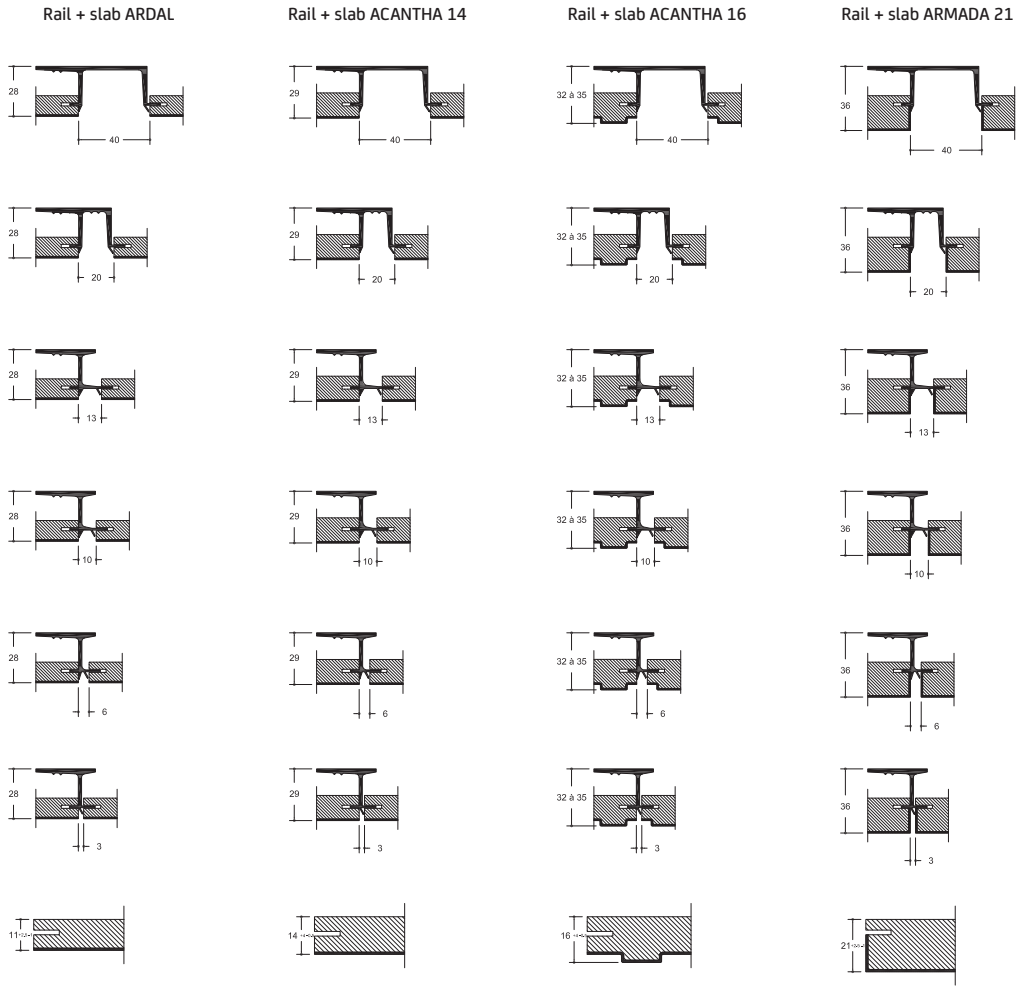
CAREA Grooved: Insulation

thickness and joint types

CWB (Cladding with backing structure)

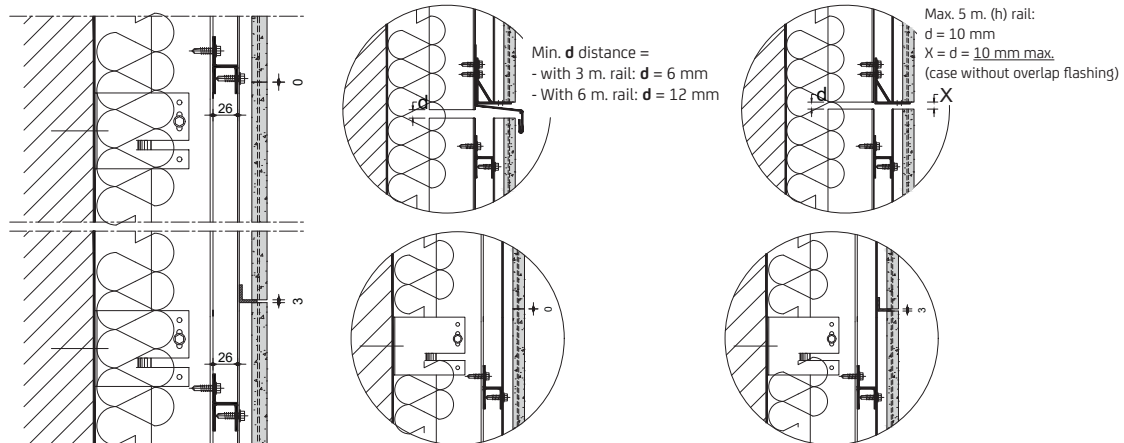
CAREA Vertical Grooved

Vertical joint



Powder coating
on rails on
demand

Horizontal joint



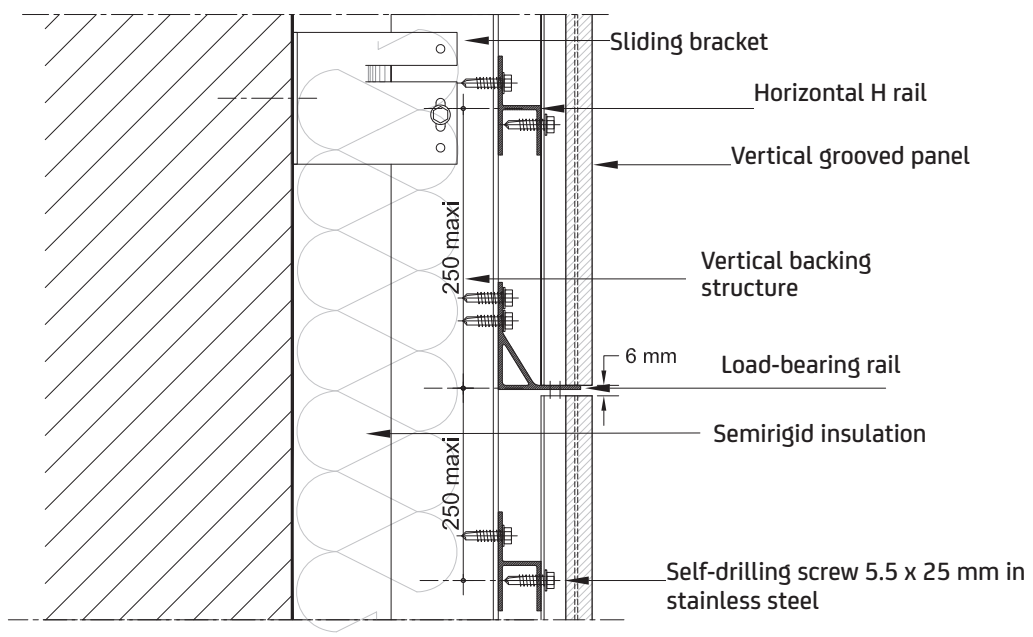


CAREA Grooved:
Basic
cuts

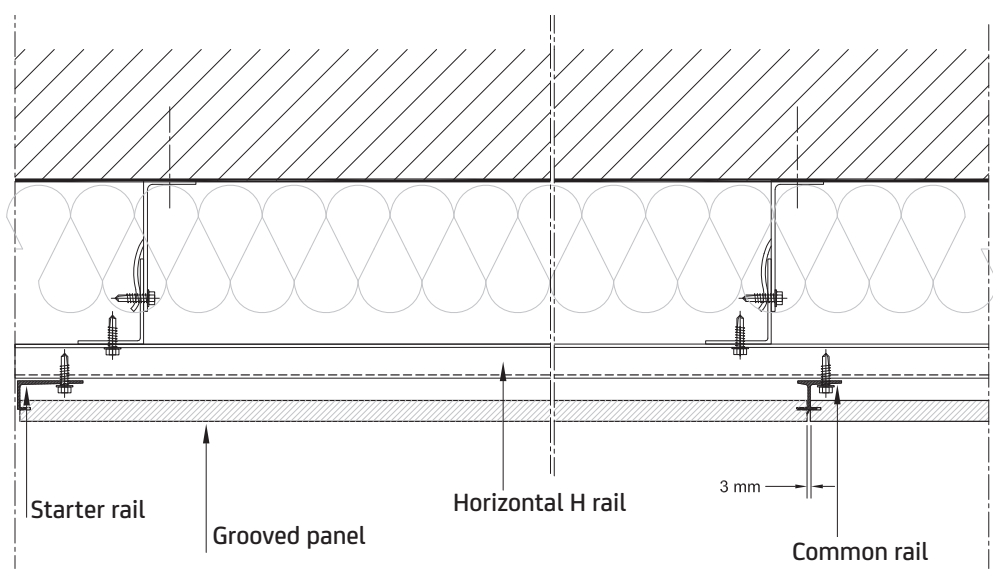


CWB (Cladding with backing structure)
CAREA Vertical Grooved

Vertical section



Horizontal section

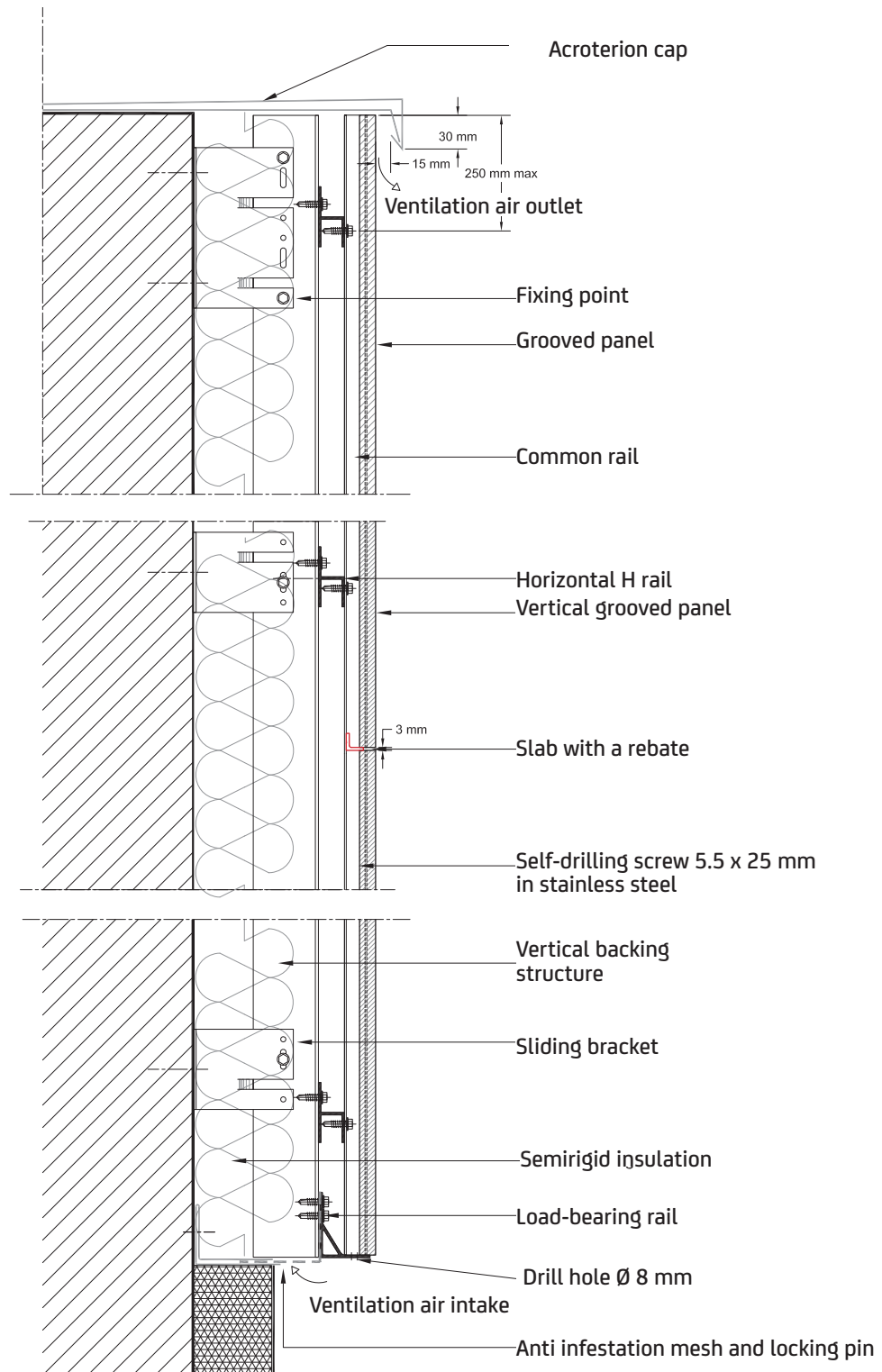


GROOVED RANGE

CAREA Grooved: Starting and top sections

CWB (Cladding with backing structure)

CAREA Vertical Grooved

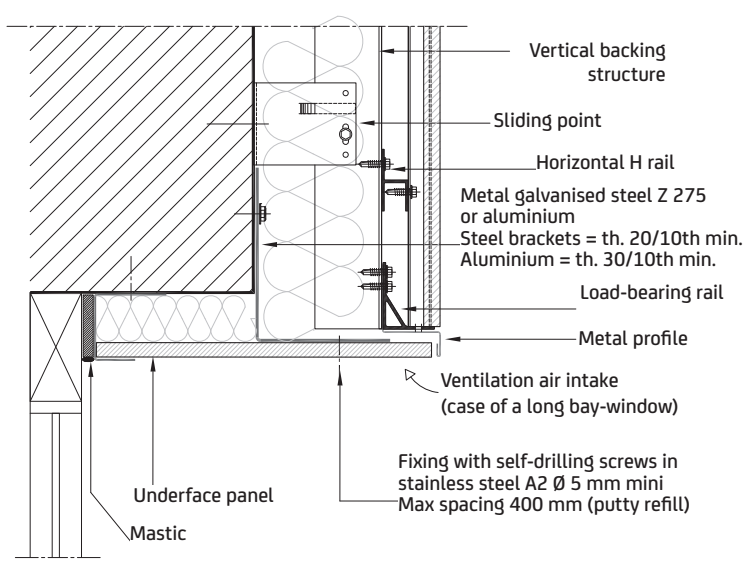




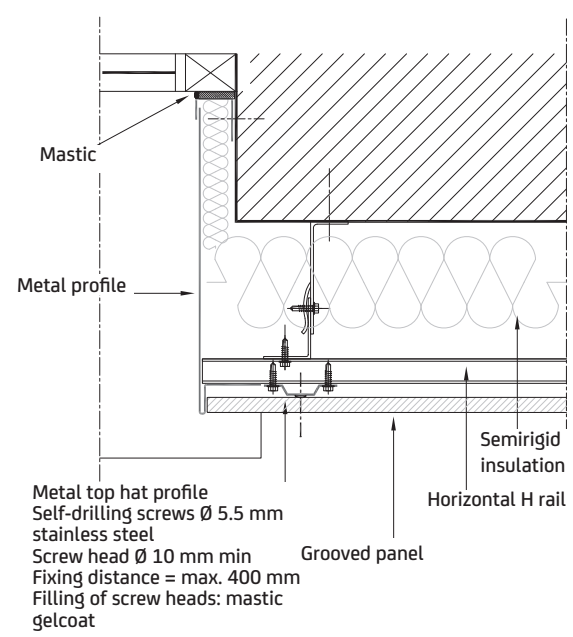
CAREA Grooved: Opening treatments

CWB (Cladding with backing structure) CAREA Vertical Grooved

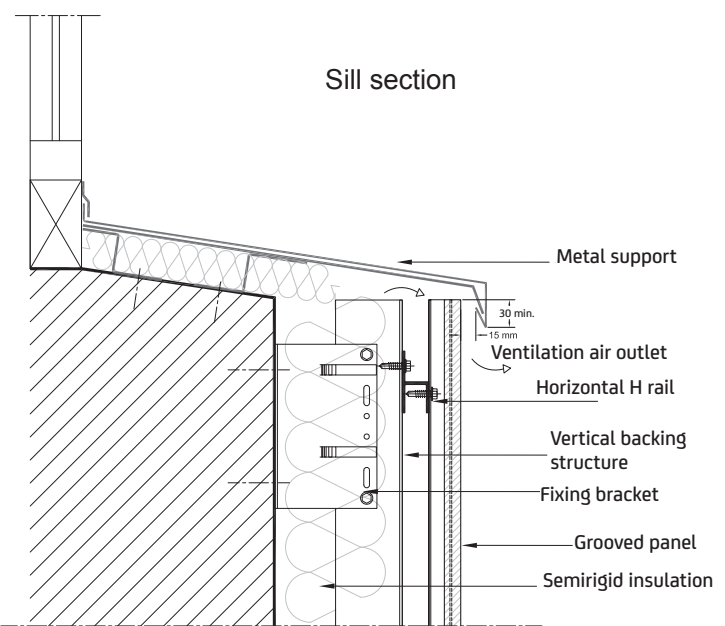
Lintel section



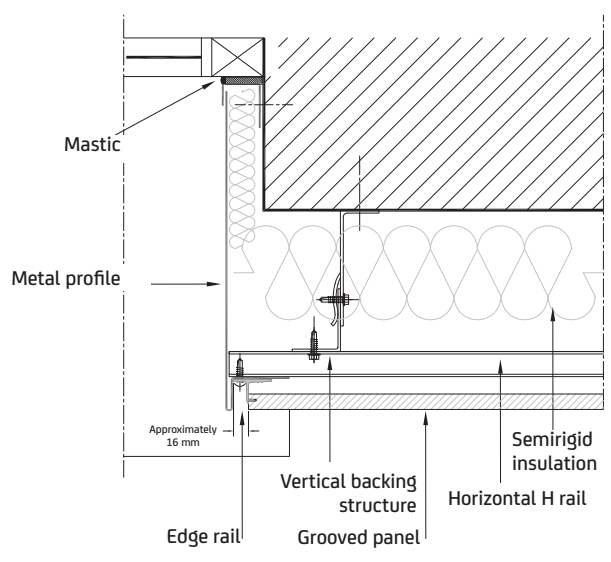
Metal-shaped frame section v1



Sill section



Metal-shaped frame section v2



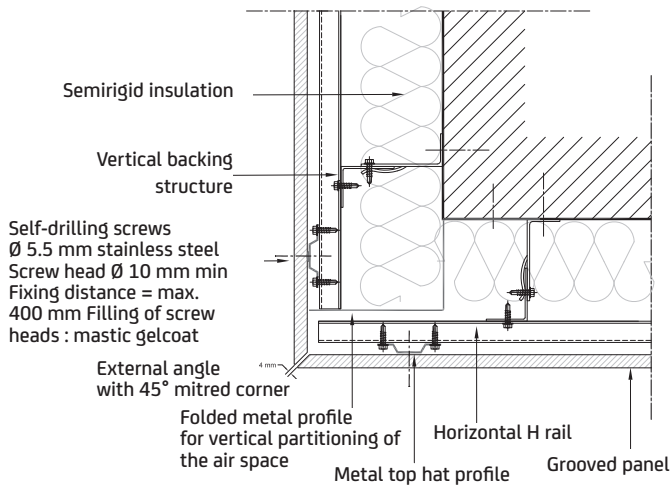
GROOVED RANGE

CAREA Grooved: Corners treatments

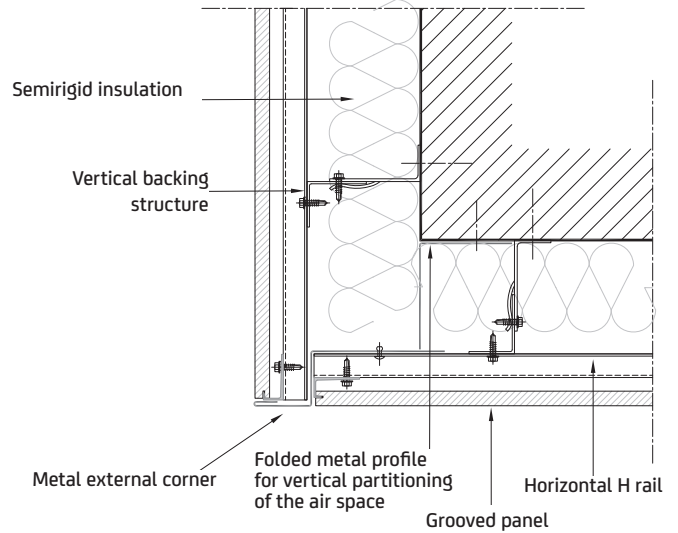
CWB^{CAREA} (Cladding with backing structure)

CAREA Vertical Grooved

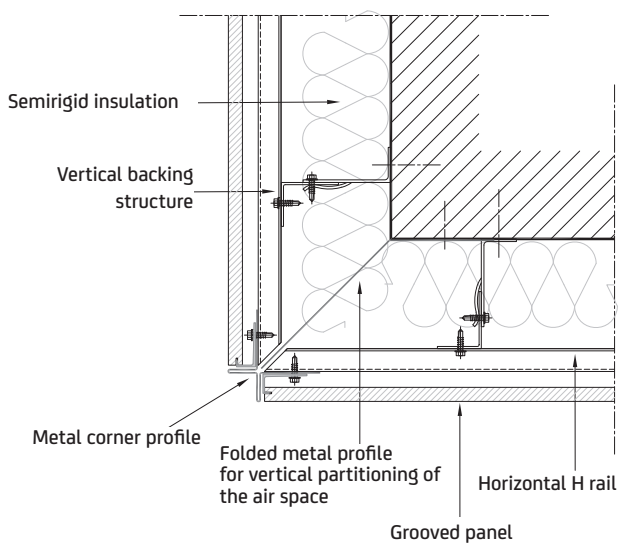
External mitred corner



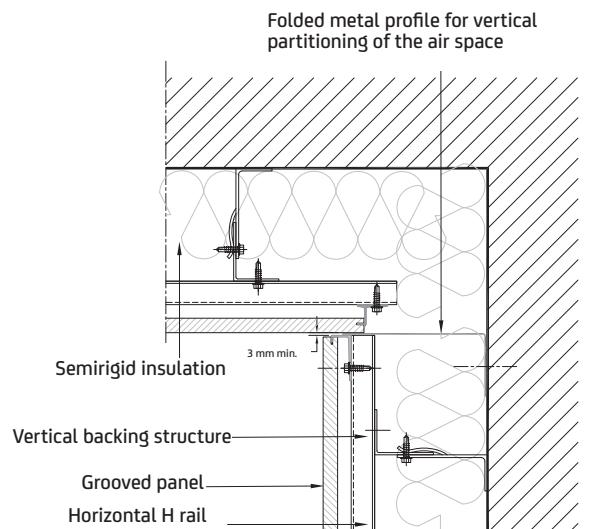
External corner, metal profile



External corner, metal profile



Internal corner

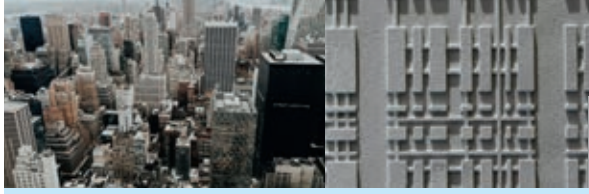




School Group Simone Veil, Evreux (FR) #
Architects: Lebreton De Coquereaumont Architectes #
Ardal & Acantha SMOOTH MATT, Copper (11-03) colour



Clinic Delay, Bayonne (FR) #
Architects: Atelier 114 #
Ardal SMOOTH MATT, Speckled White (9-50) colour



CAREA Grooved: Installation

systems

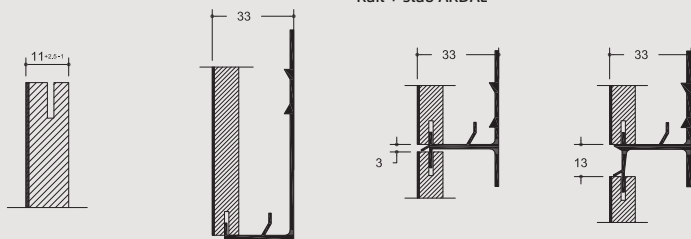
CWoB

(Cladding without backing structure)

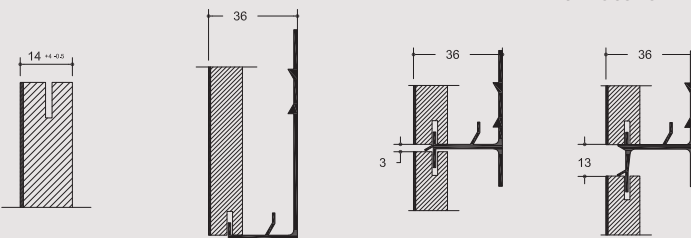
CAREA Grooved Horizontal

Horizontal joint

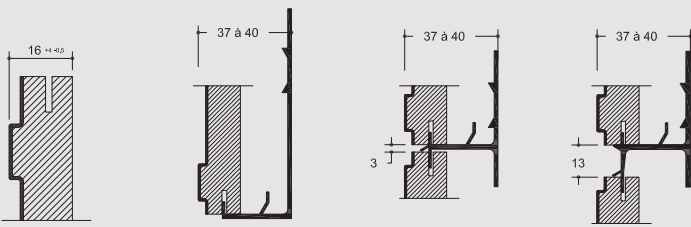
Rail + slab ARDAL



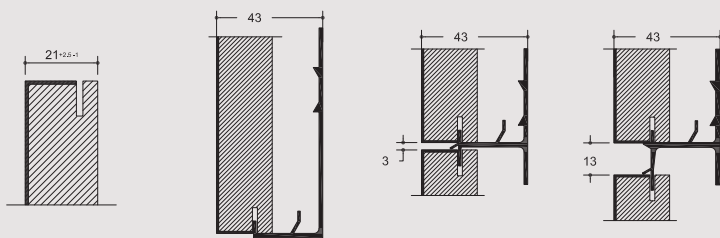
Rail + slab ACANTHA 14



Rail + slab ACANTHA 16



Rail + slab ARMADA 21



Powder coating on rails on demand



**Rigides insulation
(Cladding Without Backing
structure)**

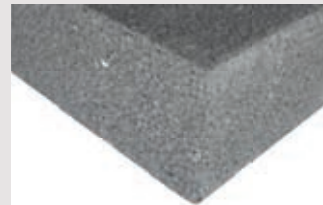
Thickness:
up to 100 mm



Polyurethane (PIR)



Phenolic foam



White/grey EPS

GROOVED RANGE

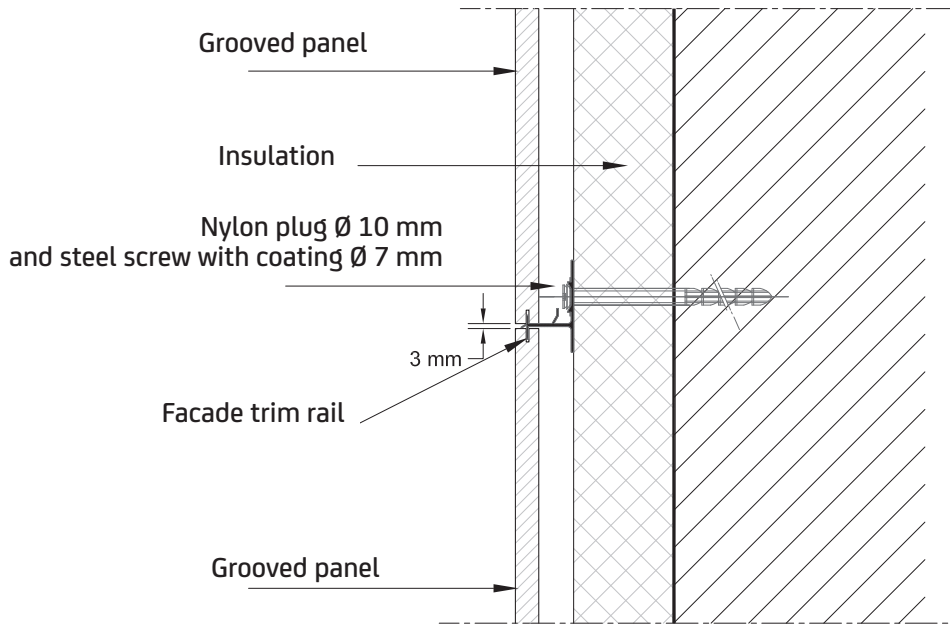
CAREA Grooved:
Basic
cuts

CWoB

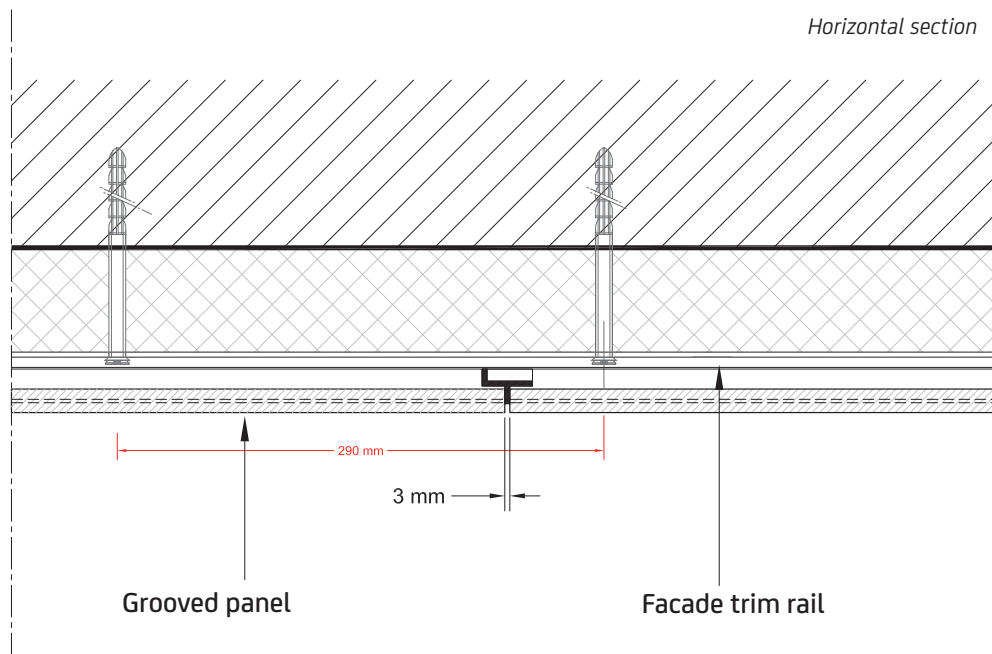
(Cladding without backing structure)

CAREA Grooved Horizontal

Vertical section



Horizontal section



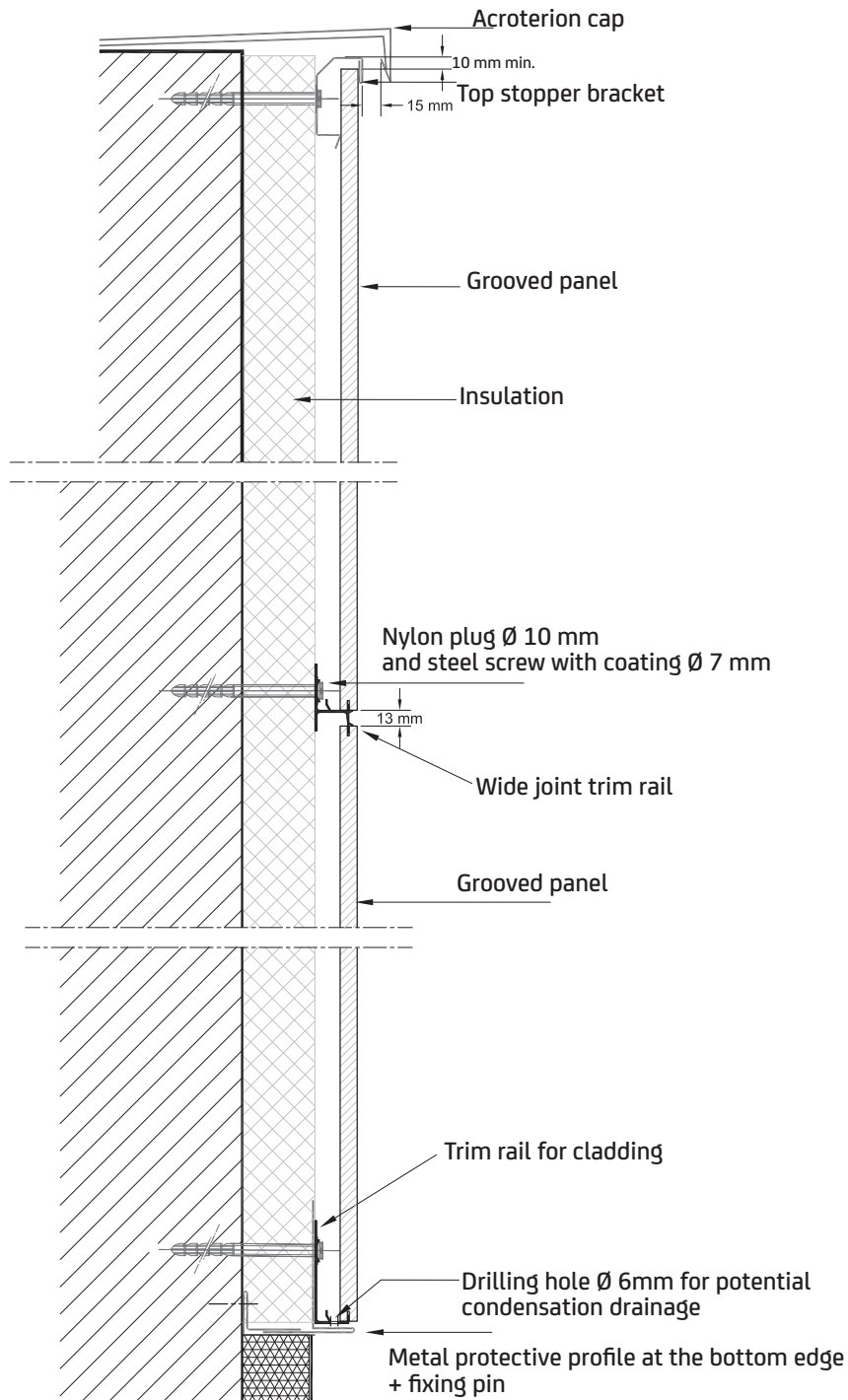


CAREA Grooved: Starting and top sections

CW^{CAREA}oB

(Cladding without backing structure)

CAREA Grooved Horizontal



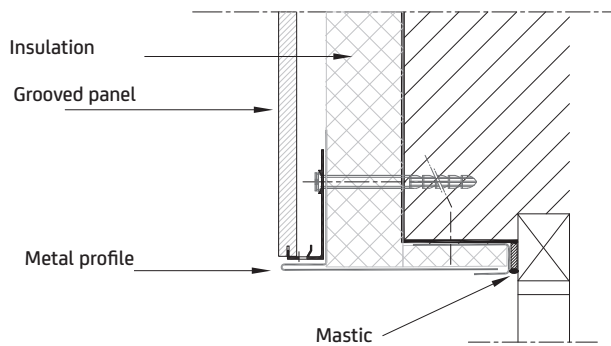
CAREA Grooved: Opening treatments

CW^{CAREA}oB

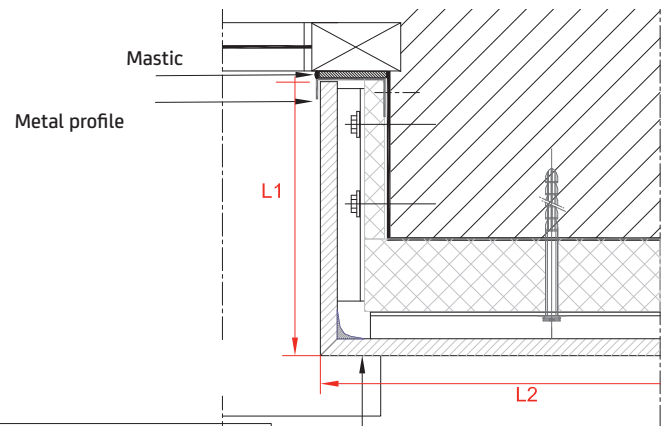
(Cladding without backing structure)

CAREA Grooved Horizontal

Lintel section



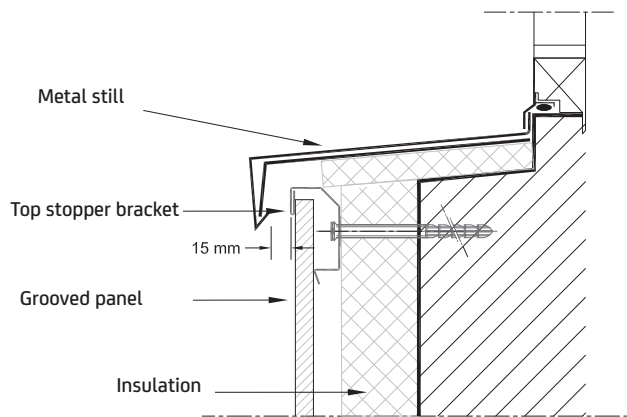
Assembled-glued frame section



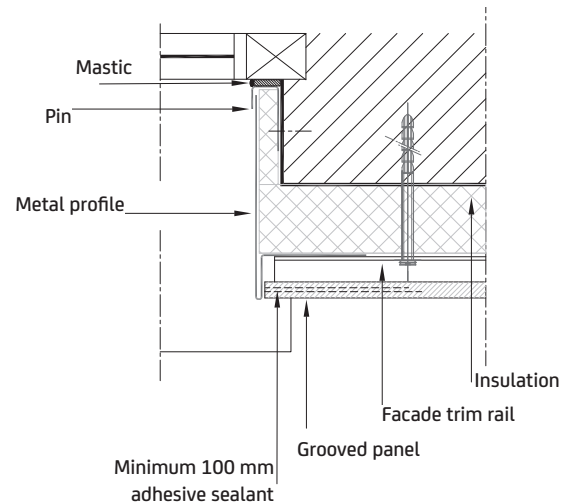
Maximum wing length =
 $L1 + L2 \leq 1350 \text{ mm}$
Minimum wing length =
 $L2 \text{ min} \geq 100 \text{ mm}$

On-site assembled and glued
corner element installed in the
window opening configuration

Sill section



Metal-shaped frame section





CAREA Grooved: Corners

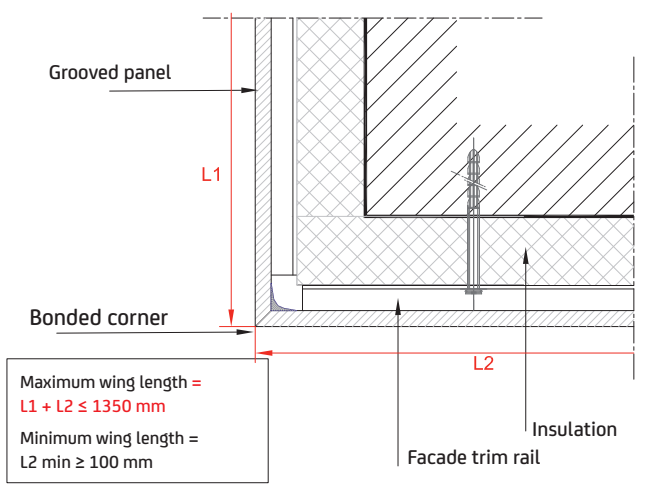
treatments

CW^{CAREA}oB

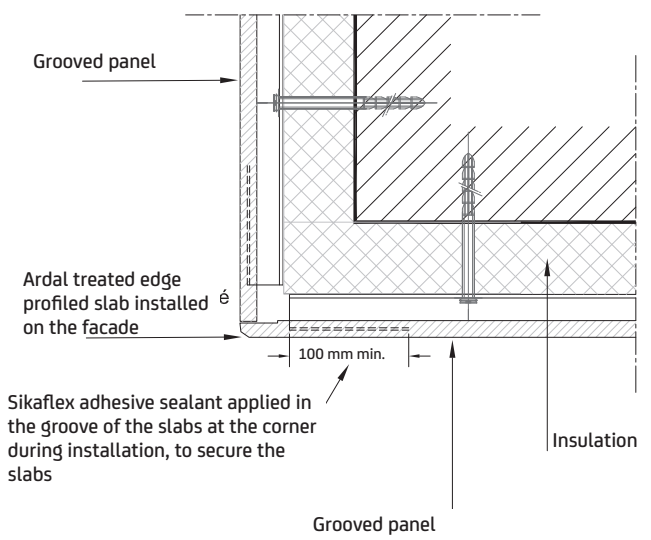
(Cladding without backing structure)

CAREA Grooved Horizontal

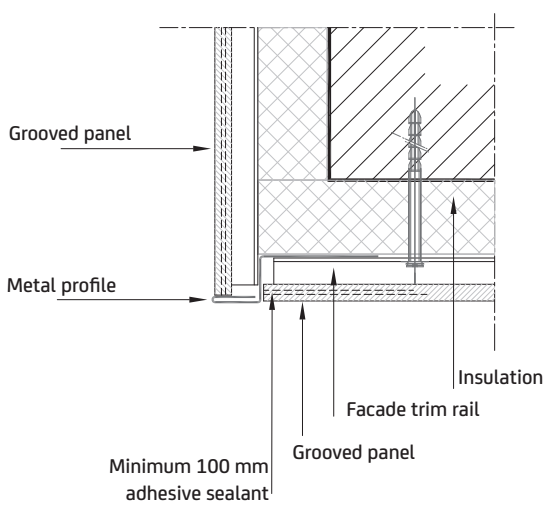
Bonded external corner



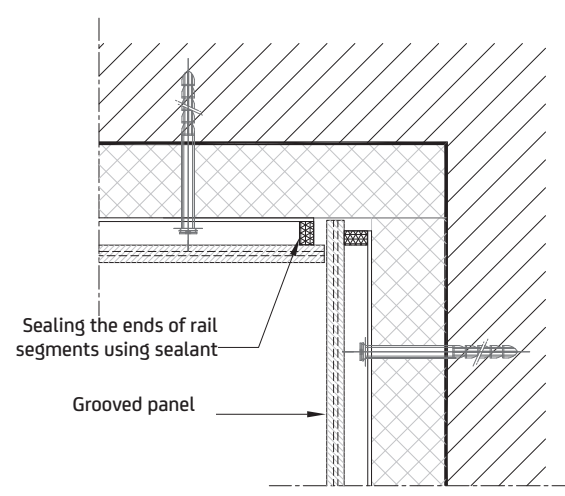
Chamfer treated corner



External corner, metal profile



Internal corner



GROOVED RANGE

CAREA Grooved: Installation systems

CW^oB

(Cladding without backing structure)

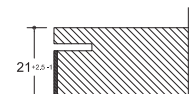
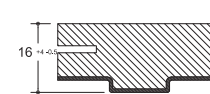
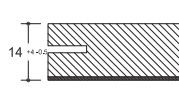
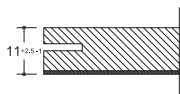
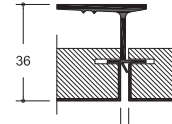
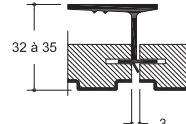
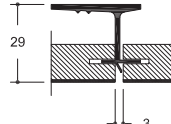
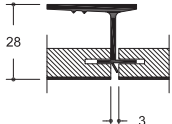
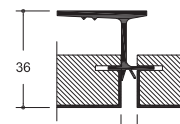
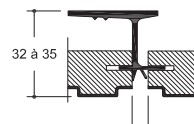
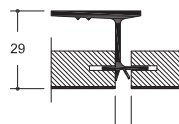
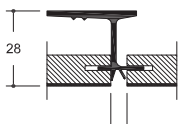
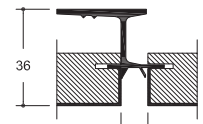
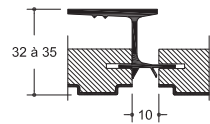
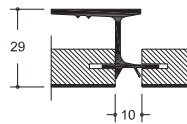
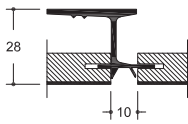
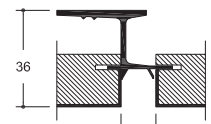
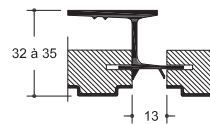
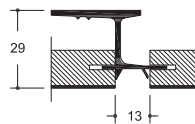
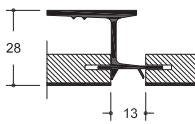
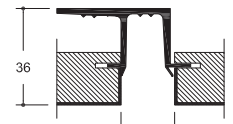
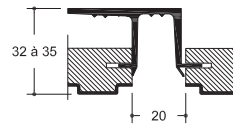
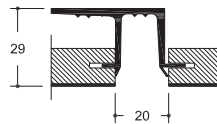
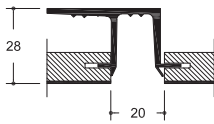
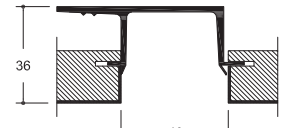
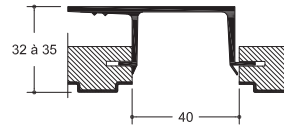
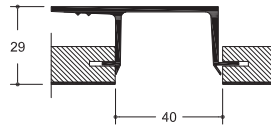
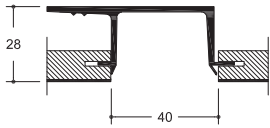
CAREA Grooved Vertical

Rail + slab ARDAL

Rail + slab ACANTHA 14

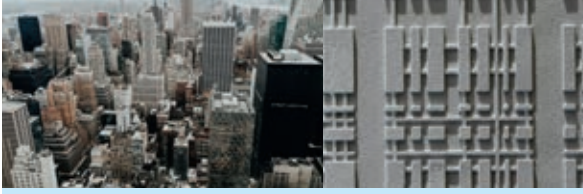
Rail + slab ACANTHA 16

Rail + slab ARMADA 21



GROOVED RANGE

Powder coating on rails on demand



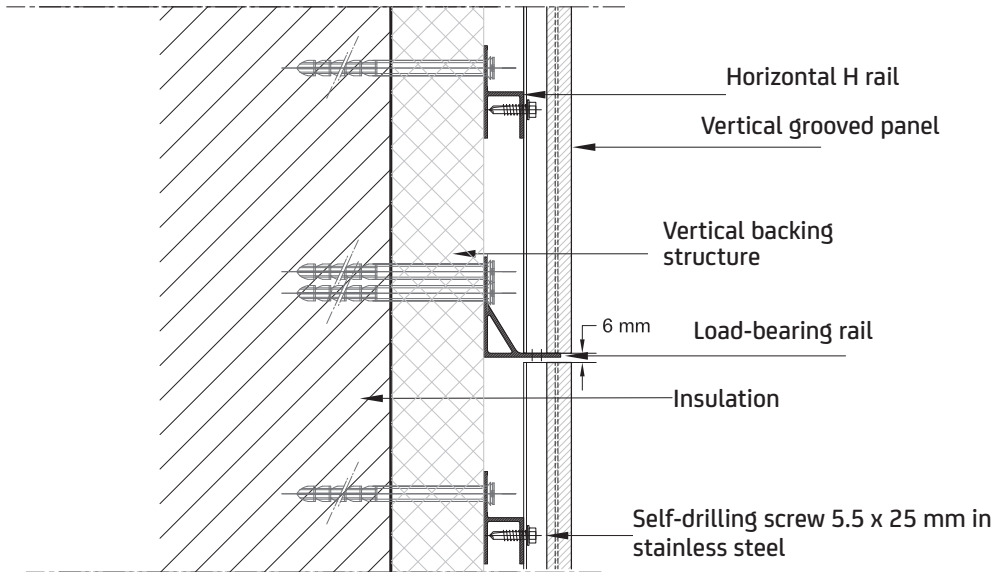
CAREA Grooved: Basic cuts

CW**o**B

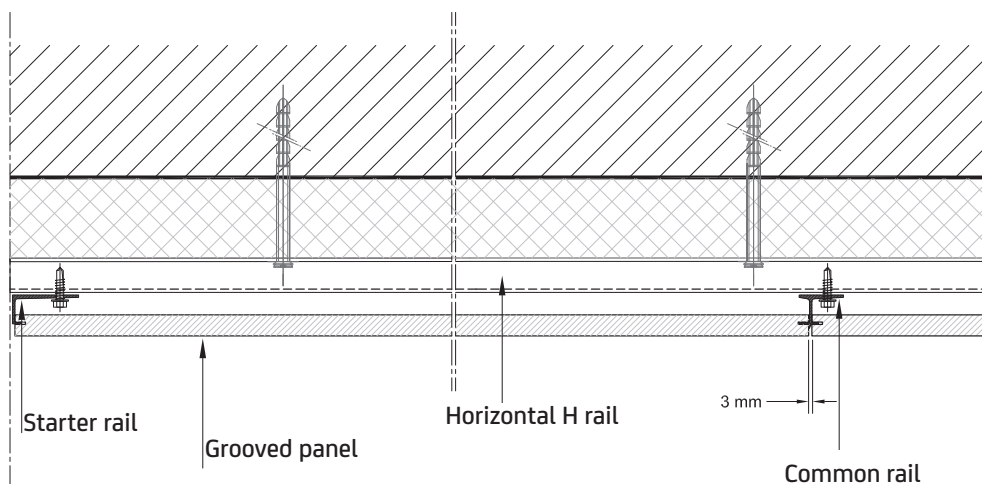
(Cladding without backing structure)

CAREA Grooved Vertical

Vertical section



Horizontal section

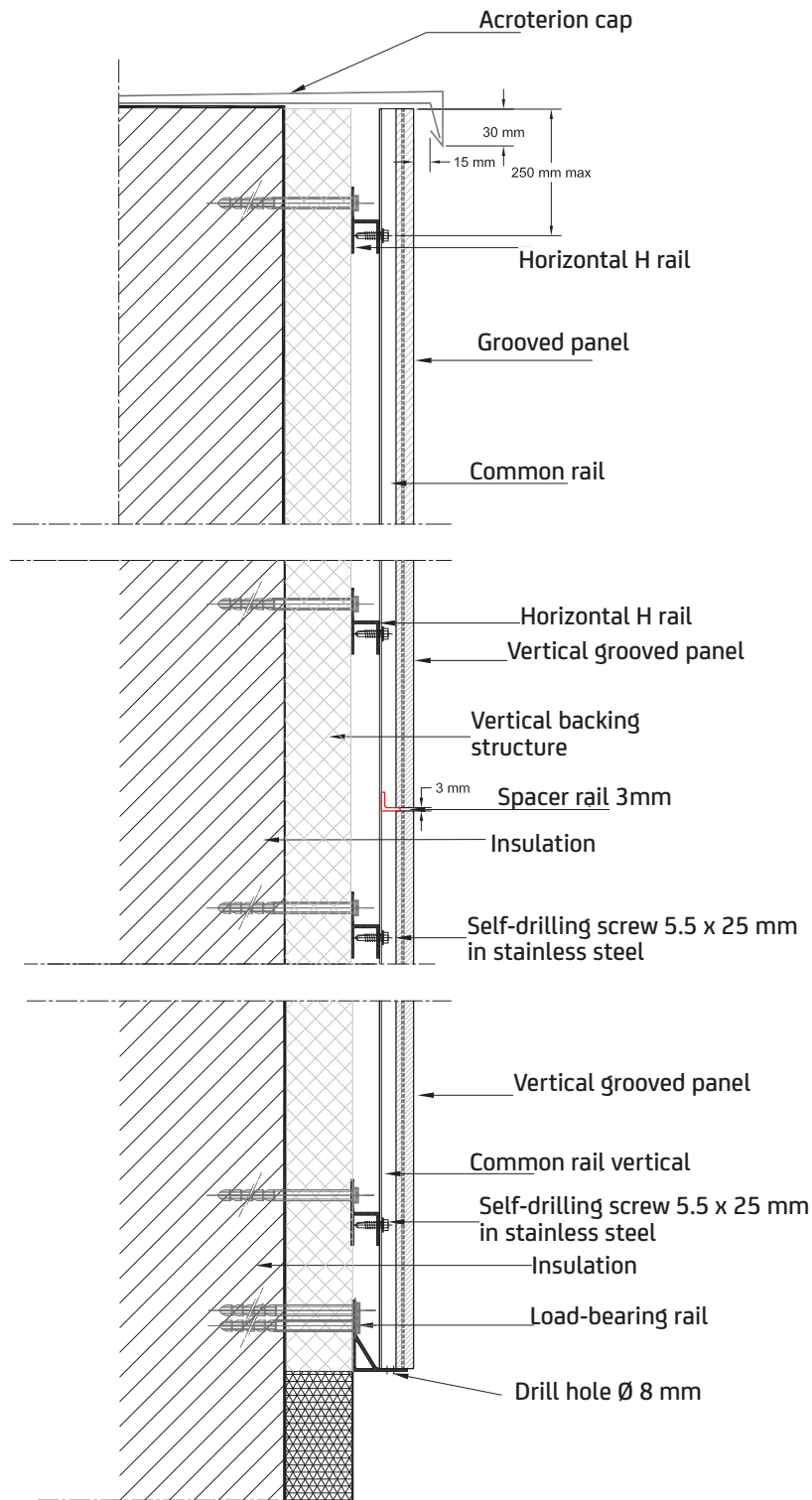


CAREA Grooved: Starting and top sections

CW^{CAREA}oB

(Cladding without backing structure)

CAREA Grooved Vertical

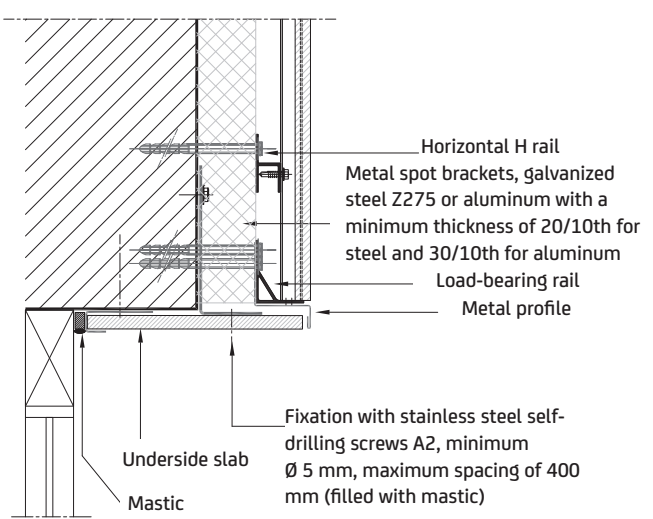




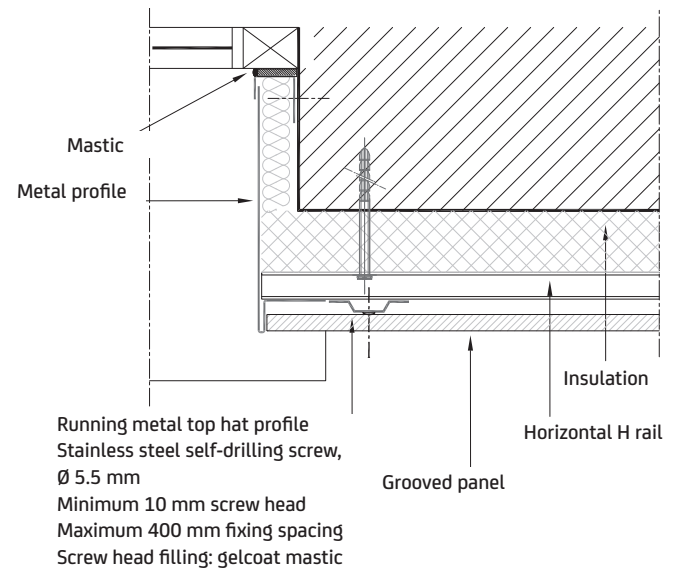
CAREA Grooved: Opening treatments

CW**o**B (Cladding without backing structure) CAREA Grooved Vertical

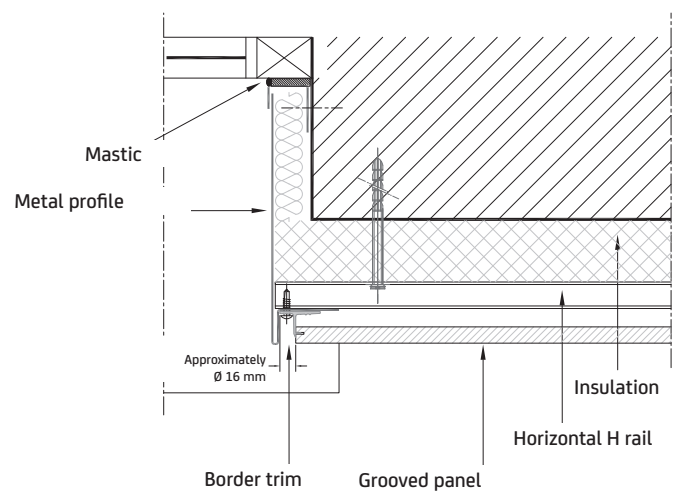
Vertical section sill lintel



Horizontal section metal-shaped frame section v1



Horizontal section metal-shaped frame section v2



GROOVED RANGE

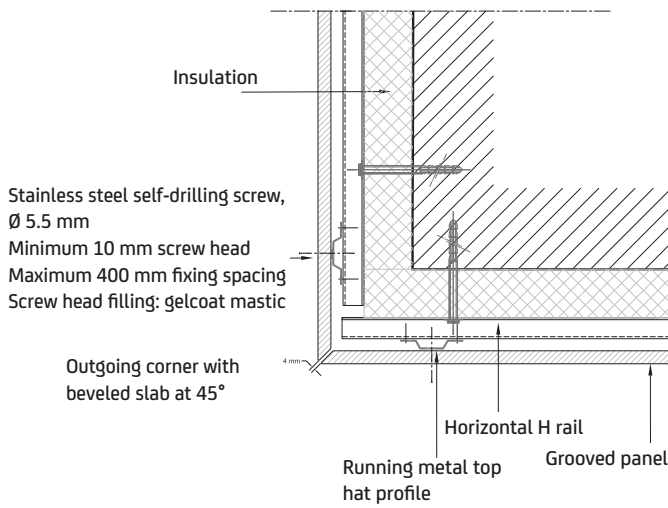
CAREA Grooved:
Corners
treatments

CW^{CAREA}oB

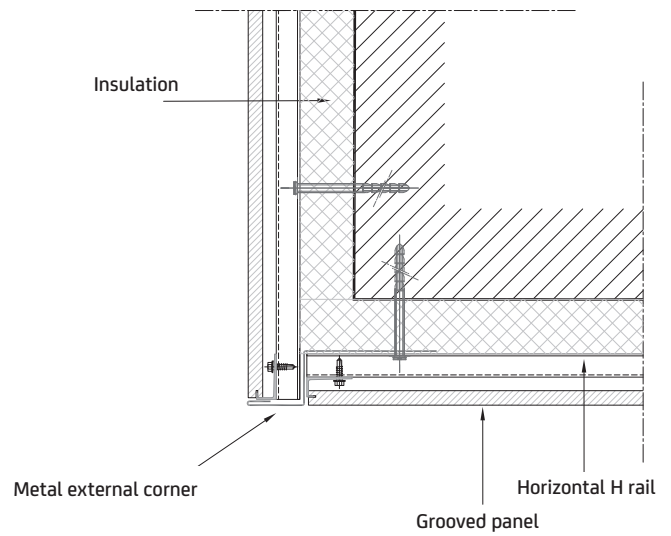
(Cladding without backing structure)

CAREA Grooved Vertical

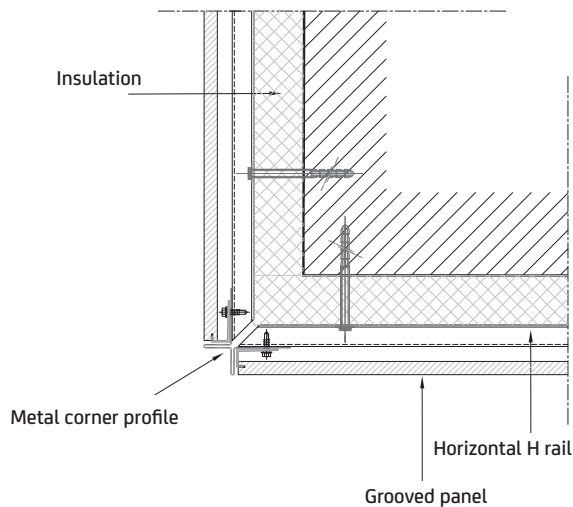
External mitred corner



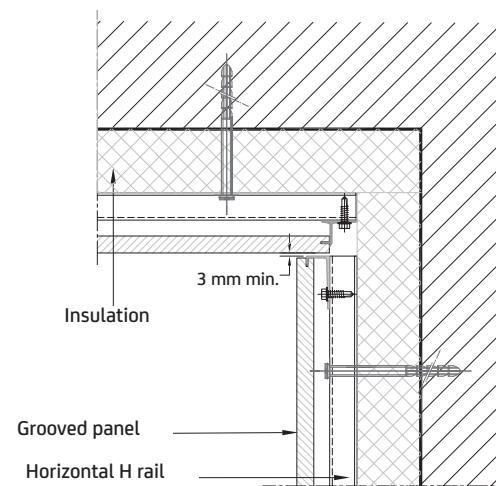
External corner, metal profile type 1



External corner, metal profile type 2



Internal corner



Spire Hospital, Manchester (UK) #
Architects: Halliday Meecham Architects #
Acantha RIVEN, Sleet (7–50) colour

CAREA
MINERAL COMPOSITE

66

THE + CAREA 3D/ANCHOR

- ▶ Architectural aesthetics
- ▶ Wide and deep range (finishes, formats and colours)
- ▶ Non-porous product
- ▶ Invisible fixings
- ▶ Treatment of curved facades
- ▶ Treatment of 3D facades
- ▶ Q4 solution
- ▶ A2-s1,d0 certification

Hotel Artisanal, Paris (FR) #
Architects: Fl. Bougnoux, J.-M. Fritz, D. Mangin,
Cabinet d'Architecture Seura #
Artema VEGETAL, Quartz Grey (7-05) colour

CAREA

3D/ANCHOR



SUMMARY

- P 69 ► Our finishes & formats
- P 71 ► Colour chart
- P 73 ► Substrates and installation systems
- P 74 ► The CAREA 3D facade system (C3D)
- P 76 ► Corners and curves treatments
- P 78 ► Basic cut of flat surfaces
- P 79 ► Starting and top sections



Parco Lago residence, Lugano (CH) #
Architects: Renzetti + Partners #
Artema SHELL, Lava Stone (7-51) colour



CAREA 3D / Anchor: Our finishes

Finishes & formats (Lxh in mm)

ARTEMA:

Weight: approximately 37 to 43 kg/m²
depending on the finish

Finishes (Customized finish creation, please contact us)

ARTEMA



VEGETAL -
Organic
2400 x 994 mm



Design suggestions from the Carea Design

 Create your finish

ARTEMA / Curved ARTEMA



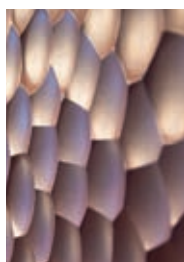
WOOD -
Organic



TAÏGA -
Graphic



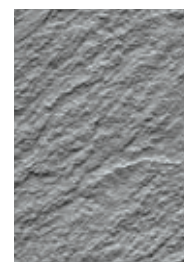
SHELL -
Mineral



MOON -
Organic



RHODES -
Organic



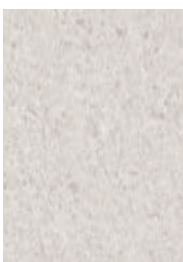
RIVEN -
Mineral



URBA -
Urban



GLOSSY -
Urban



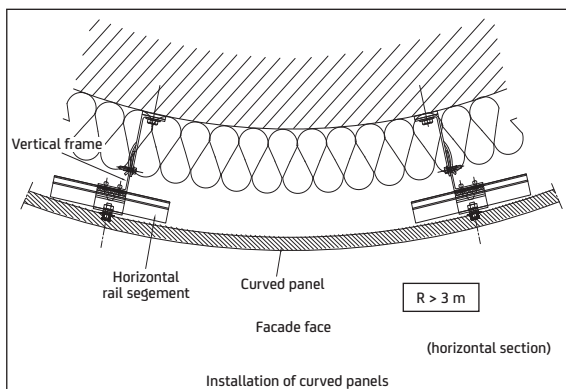
SMOOTH MATT -
Urban



PAPYRUS -
Organic

Concave/Convex,
possibility of custom piece
study.

Max. format:
3000 x 900 mm
& sub-multiple.



See
colour
chart

P71

University of Law, Hertfordshire (UK) #
Architects: RMJM #
Artema curved GLOSSY, Ice White (9-04) colour

CAREA 3D / Anchor: Colour chart

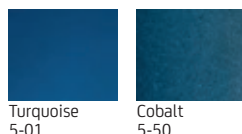
BEIGE YELLOW



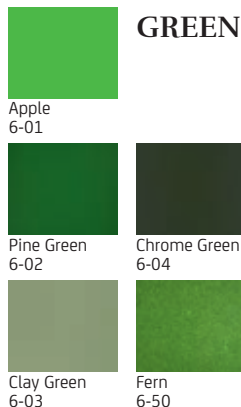
ORANGE RED PURPLE



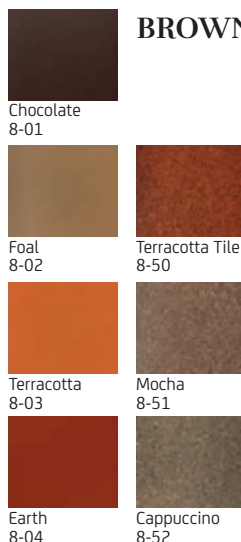
BLUE



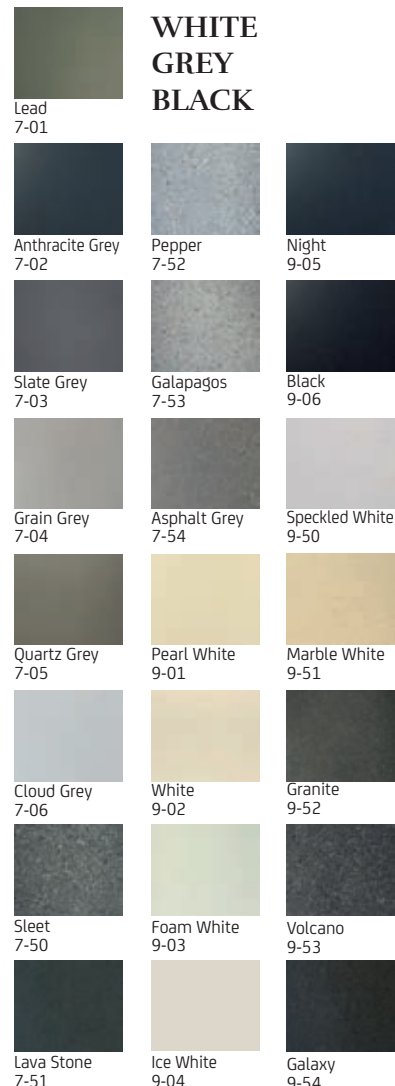
GREEN



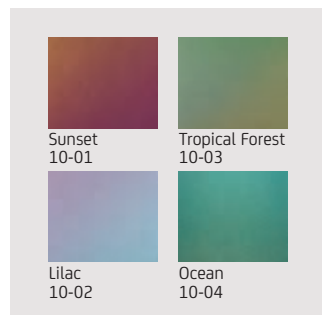
BROWN



WHITE GREY BLACK



IRIDESCENT



METALLIC – HAMMERED



Any special colour can be studied

Despite all the care taken in printing this document, slight differences in shades may exist compared to the delivered products. Depending on the lighting of the facade, a slight variation may appear on the cladding.

Codification X-01 to X-49: monochrome shade / X-50 to X-99: speckled shade



Hôtel & Spa MGallery, Châtelailon-Plage (17/FR) #
Architect: ABP Architectes #
Artema & Ardal RIVEN, Marble White (9-51) colour

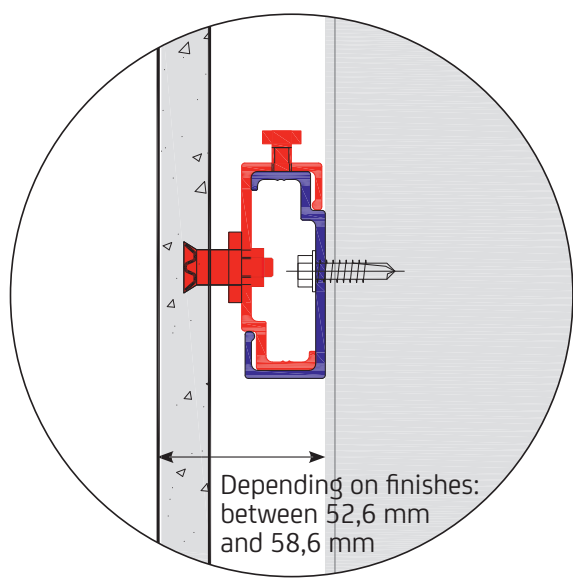


CAREA 3D / Anchor: Substrates and installation systems

CWB^{CAREA} (Cladding with backing structure)

CAREA Anchor

Carea Anchor curved
Concrete / Masonry



EUROCLASS A2-s1,d0

Systems	Supporting wall				
	Masonry Concrete	Cladding deck	Fire compliance	Q4	Seismic
CAREA [®] Anchor	CWB	CWB	✓ EUROCLASS A2-s1,d0 *except Artema Q4	✓	✓

CWB: Cladding With Backing structure

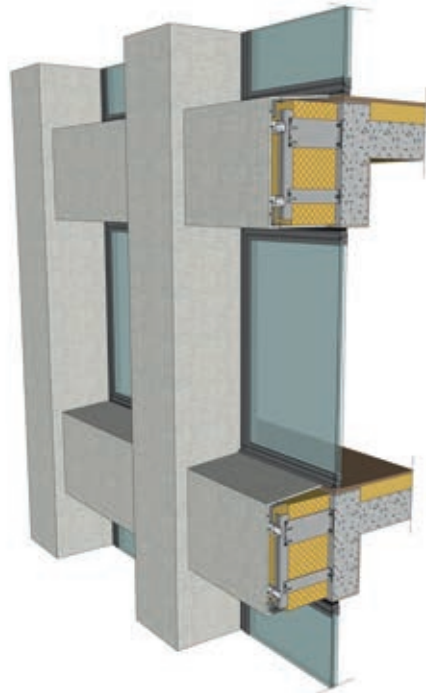
CWob: Cladding Without Backing structure

ANCHOR RANGE / 3D

CAREA 3D / Anchor:
The CAREA 3D
Facade system (C3D)



Artema SHELL, Nutmeg (1-53) colour

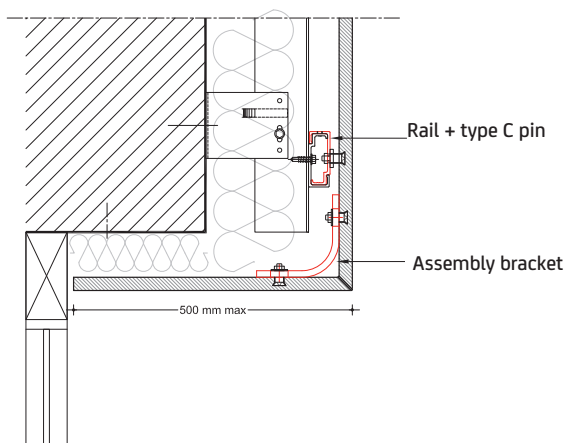




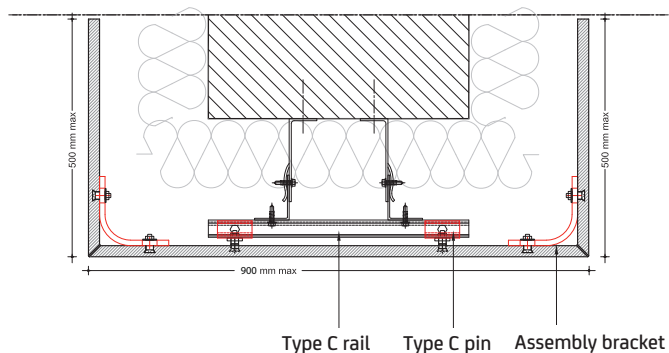
CAREA 3D / Anchor: The CAREA 3D Facade system (C3D)

In addition to the treatment of curved facades, the Anchor system can be used for the treatment of complex facade details : U-shaped pieces, frames, sills, protruding pieces...

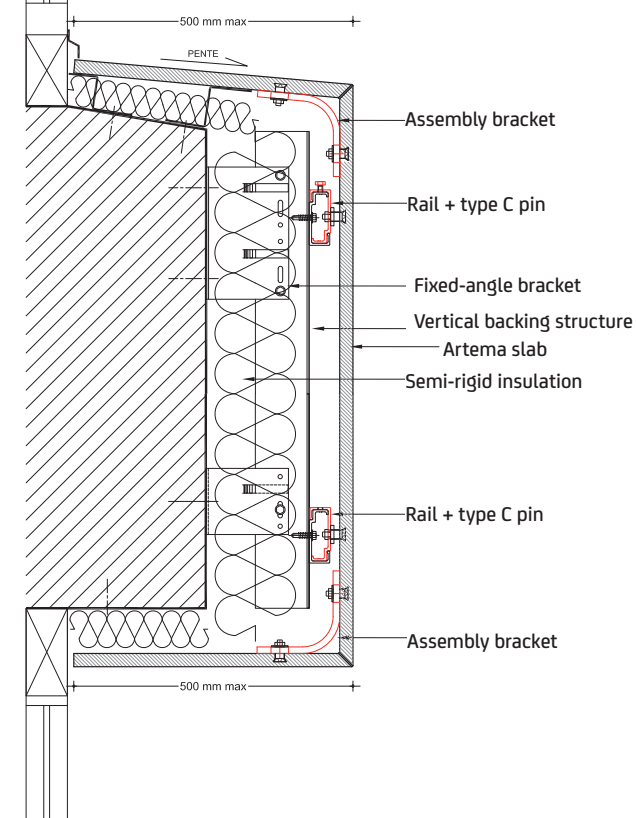
Vertical section of lintel



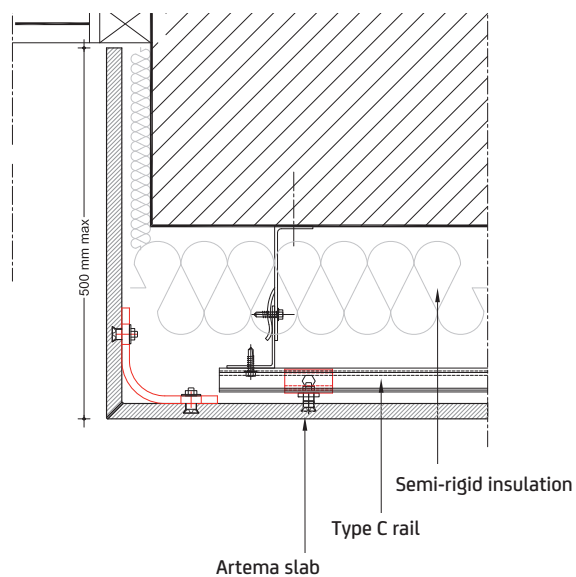
Horizontal section of U-shaped piece



Vertical section of sill and return

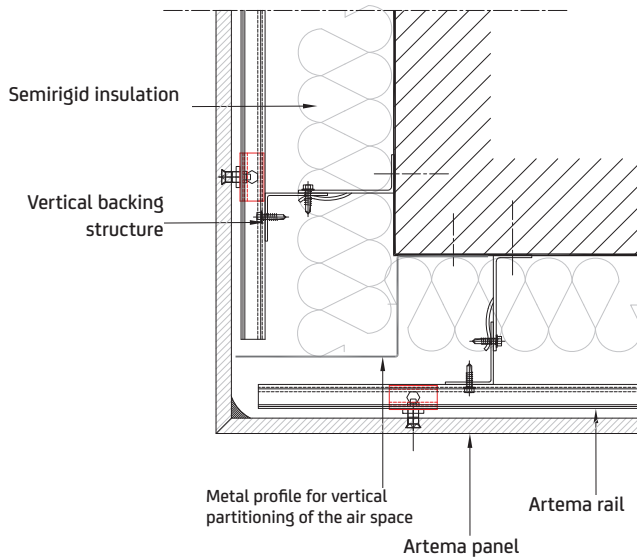


Horizontal section of frame

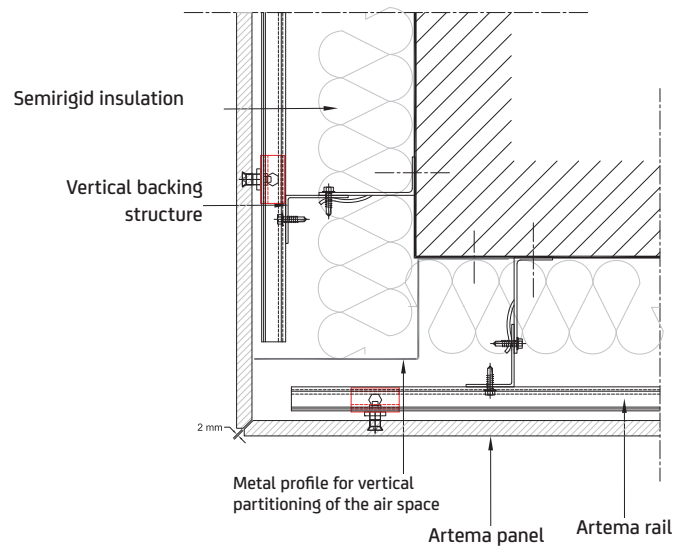


CAREA 3D / Anchor: Corners and curves treatments

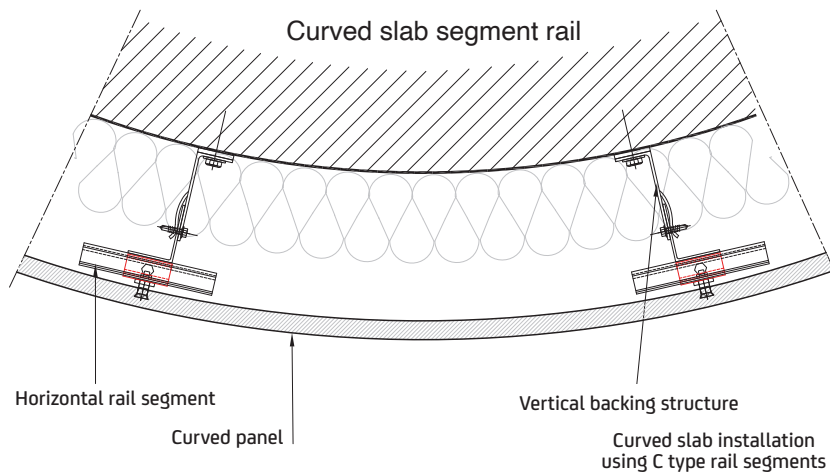
Bonded external corner



Treated bevelled cut corner

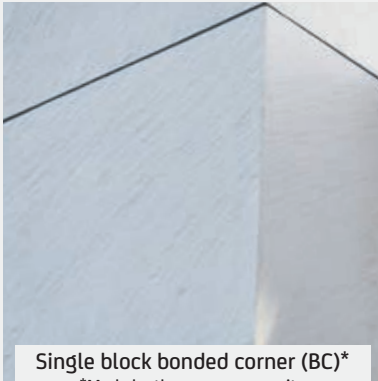


Curved slab segment rail

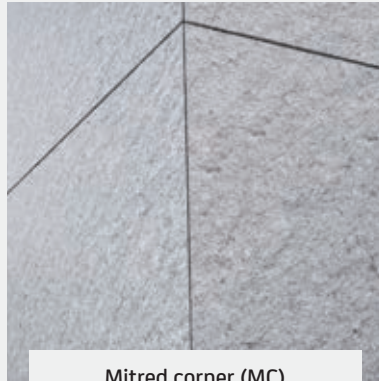




CAREA 3D / Anchor: Corners and curves treatments



Single block bonded corner (BC)*
*Made by the company on site



Mitred corner (MC)



Treated bevelled cut (TBC)



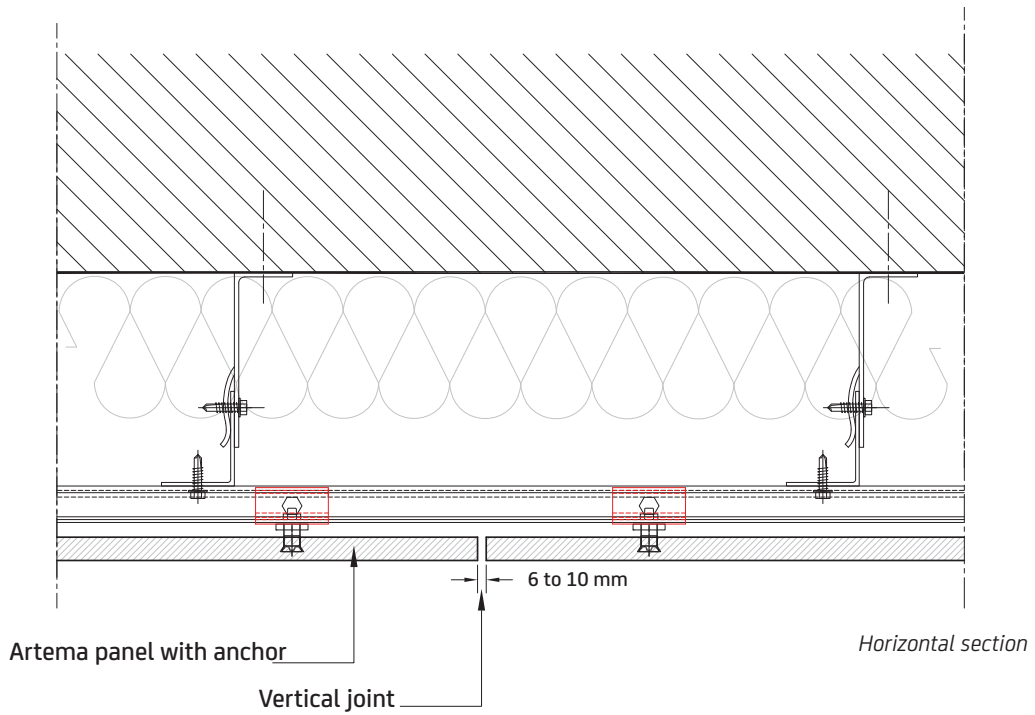
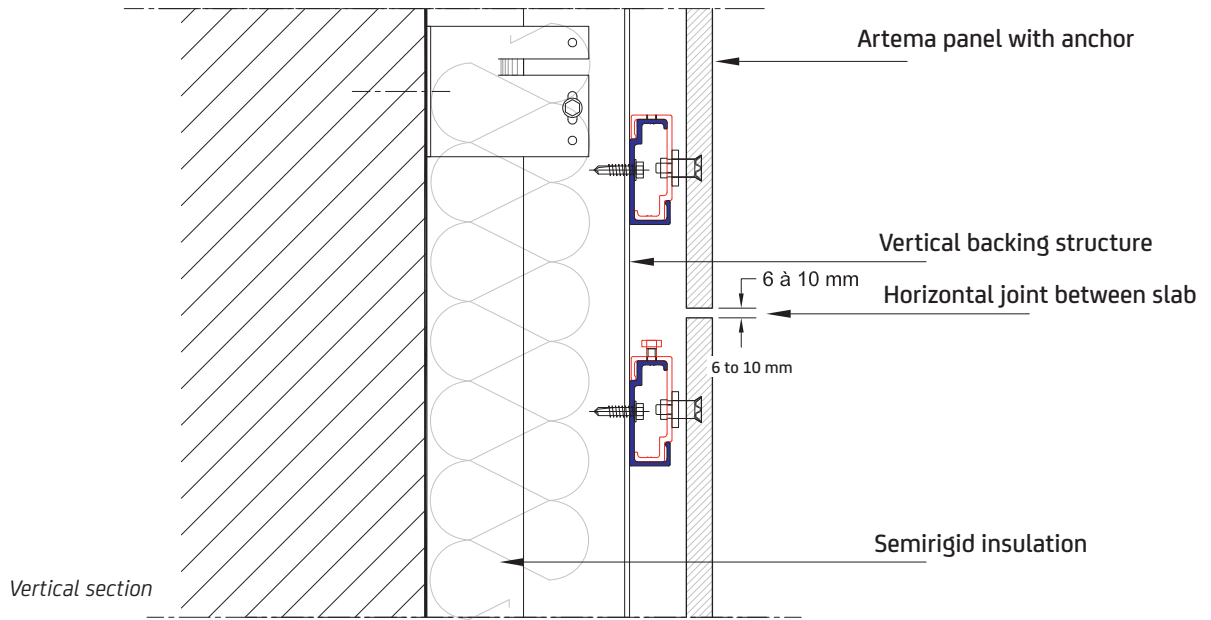
Moulded bevelled cut (MBC)



Folded metal (FM)

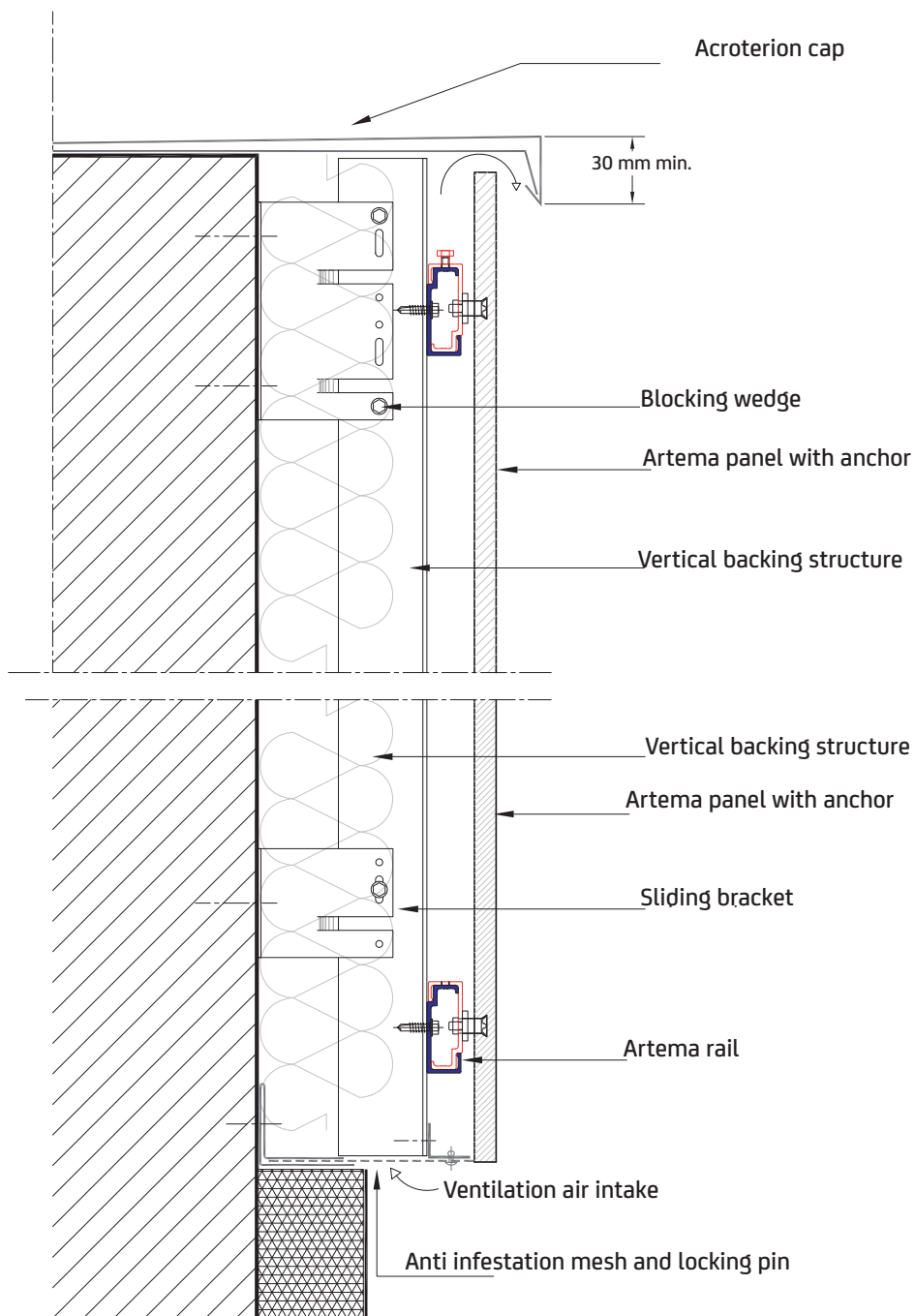
	Finishes	Formats (in mm)	FM	BC	MC	MBC	TBC
ARTEMA	SMOOT MATT	Up to 3000 x 900	✓	✓	✓	✓	✓
	GLOSSY		✓	✓	✓	✓	
	RIVEN		✓	✓	✓		
	RHODES		✓				✓
	PAPYRUS		✓				✓
	URBA		✓				✓
	MOON		✓				✓
	TAÏGA		✓				✓
	WOOD		✓	✓	✓	✓	✓
	SHELL	✓	✓	✓	✓		
	VEGETAL	Up to 2400 x 994	✓				✓

CAREA 3D / Anchor: Basic cuts of flat surfaces





CAREA 3D / Anchor: Starting and top sections





Liberty Wharf, Jersey (UK) #
Architects: Axis Mason Architecture #
Artema Curved RIVEN, custom colour



Artisanal Hotel, Paris (FR) #
Architects: Fl. Bougnoux, J.-M. Fritz, D. Mangin,
Cabinet d'Architecture Seura #
Artema VEGETAL, Quartz Grey (7-05) colour


























CAREA Mineral Composite: Overview

by finish

CAREA®
MINERAL COMPOSITE

		CAREA Interlocking	CAREA Grooved	CAREA Anchor	CWB	CWoB	Support Masonry	Support wood/Clt	Support Metal plate / Metsec	Q4 (Mechanical strength)
SMOOTH - Urban		✓			✓	✓	✓	✓	✓	✓
PIERRE DU SUD - Mineral		✓			✓	✓	✓	✓	✓	✓
PIERRE DE LOIRE - Mineral		✓			✓	✓	✓	✓	✓	✓
GRAF 100 - Graphic		✓			✓	✓	✓	✓	✓	✓
GRAF 200 - Graphic		✓			✓	✓	✓	✓	✓	✓
GRAF 900 - Mineral		✓			✓	✓	✓	✓	✓	✓
GRAF SLATE - Mineral		✓			✓	✓	✓	✓	✓	✓
DUNE - Organic		✓			✓	✓	✓	✓	✓	✓
CARVI - Urban		✓			✓	✓	✓	✓	✓	✓
PIXEL - Graphic		✓			✓	✓	✓	✓	✓	✓
MAGMA - Mineral		✓			✓	✓	✓	✓	✓	✓
MECA - Graphic			✓		✓	✓	✓	✓	✓	✓
CUADRA - Graphic			✓		✓	✓	✓	✓	✓	✓
RIVEN - Mineral			✓	✓	✓	✓	✓	✓	✓	✓
SHELL - Mineral			✓	✓	✓	✓	✓	✓	✓	✓
SMOOTH MATT - Urban			✓	✓	✓	✓	✓	✓	✓	✓
GLOSSY - Urban			✓	✓	✓	✓	✓	✓	✓	✓
PAPYRUS - Organic			✓	✓	✓	✓	✓	✓	✓	✓
RHODES - Organic			✓	✓	✓	✓	✓	✓	✓	✓
MOON - Organic			✓	✓	✓	✓	✓	✓	✓	✓
TAÏGA - Graphic			✓	✓	✓	✓	✓	✓	✓	✓
URBA - Graphic			✓	✓	✓	✓	✓	✓	✓	✓
FLUTED - Graphic			✓	✓	✓	✓	✓	✓	✓	✓
GLASS PASTE - Graphic			✓	✓	✓	✓	✓	✓	✓	✓
WOOD - Organic			✓	✓	✓	✓	✓	✓	✓	✓
SCHISTE - Mineral			✓		✓	✓	✓	✓	✓	✓
CAUCASE - Mineral			✓		✓	✓	✓	✓	✓	✓
VEGETAL - Organic				✓	✓		✓	✓		✓

CAREA Mineral Composite: Regulatory synthesis

CAREA [®] MINERAL COMPOSITE	Concrete / Masonry	WFC / CLT	Cladding deck	Metsec	Fire compliance	FDES	Q4
							
CAREA Interlocking CWB CWB	Carea Interlocking 	Carea Interlocking	CAREA Interlocking Cladding panel		✓	 	✓
CAREA Interlocking CWoB CWoB	Carea Interlocking CWoB (Type V, Type G)  (Click & Fix)	Carea Interlocking CWoB (Type V, Type G)			✓	 	✓
CAREA Grooved CWB CWB	Carea Grooved Cladding Horizontal    CAREA Grooved Cladding Vertical	Carea Grooved Cladding Horizontal CAREA Grooved Cladding Vertical	CAREA Grooved Cladding panel	 	✓	 	✓
CAREA Grooved CWoB CWoB	CAREA Grooved Battening				✓	 	✓
CAREA Anchor CWB CWB	CAREA Anchor Artema 	CAREA Anchor Artema			✓	 	✓



MINERAL

Organic
Urban
Graphic

Mineral
Organic

Urban

GRAPHIC

CAREA®

MINERAL COMPOSITE

Mineral
Organic

URBAN

Graphic

Mineral

ORGANIC

Urban

Graphic



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