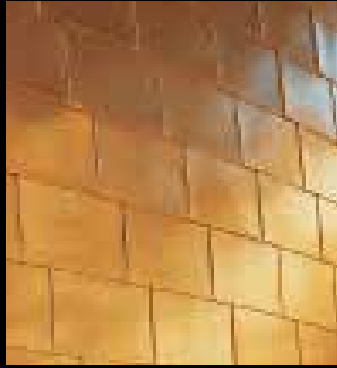


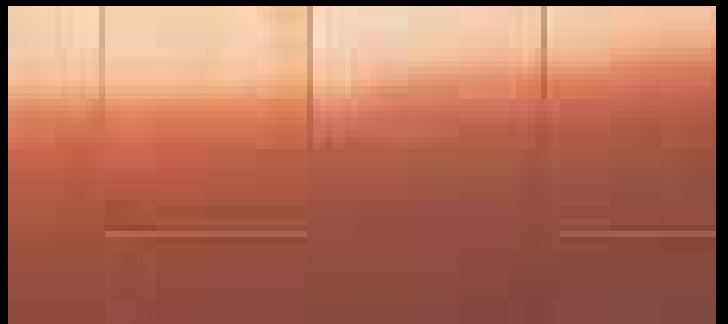
Prefabricated TECU® System-Panels



KME Germany GmbH & Co. KG
Prefabricated TECU System-Panels
[GB]



TECU® Classic
The bright red rolled copper



TECU® Oxid
The brown pre-oxidised copper



TECU® Patina
The green pre-patinated copper



TECU® Zinn
The matt gray tinned Copper



TECU® Copper for Roofing, Facade and Roof drainage

7 good reasons for TECU® Copper – it resists longer, it is representative, its stable value, it is natural, it is environmentally friendly, it arouses curiosity and it is flexible.



TECU® Brass

The alloy of copper and zinc



TECU® Bronze

The alloy of copper and tin



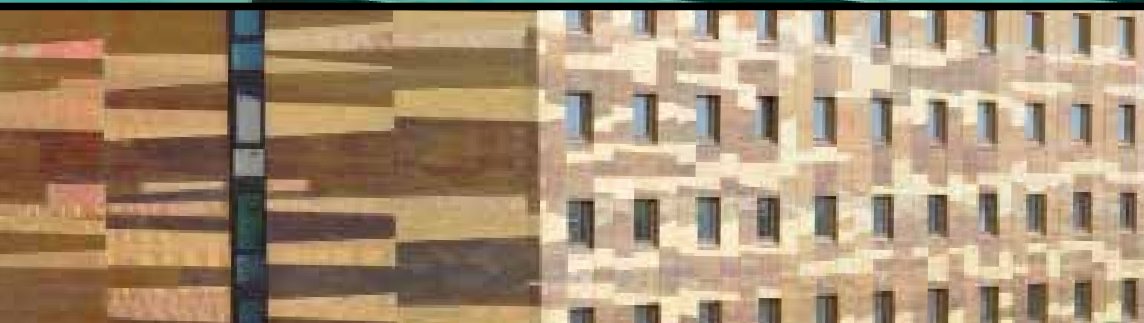
TECU® Gold

The alloy of copper and aluminium



TECU® Bond

The composite material with copper



Slot-in Panels

- horizontal
- vertical

TECU® slot-in panel with tongue and groove for horizontal and vertical layout is fabricated with a building depth of about 25 mm.

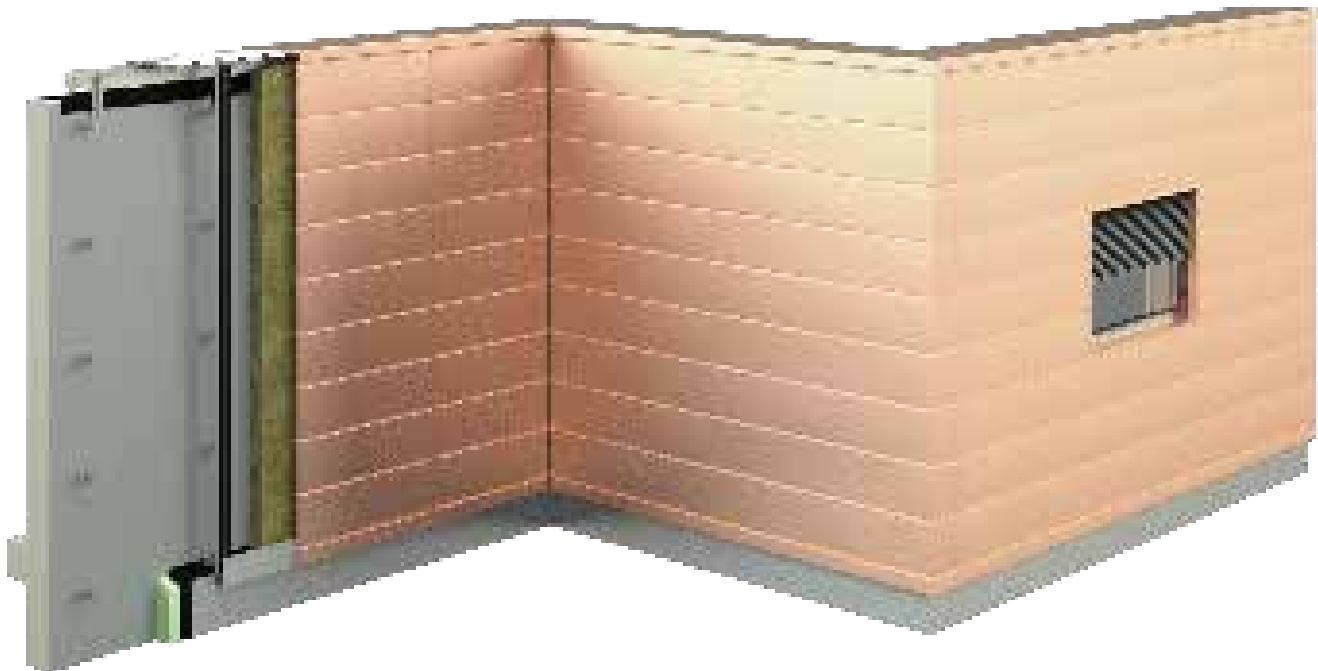
The slot-in panels are universally applicable for ventilated facades in the horizontal, vertical and diagonal layout. Also rounded elements can be fabricated on request. Variable dimensions of joints and overall widths as well as profile lengths from 500–6000 mm allow nice and interesting façade designs.

The large range of work materials like TECU®-Copper and copper alloys, Zinc, aluminium, Stainless steel and steel and their various surface finishes, offer various design possibilities.

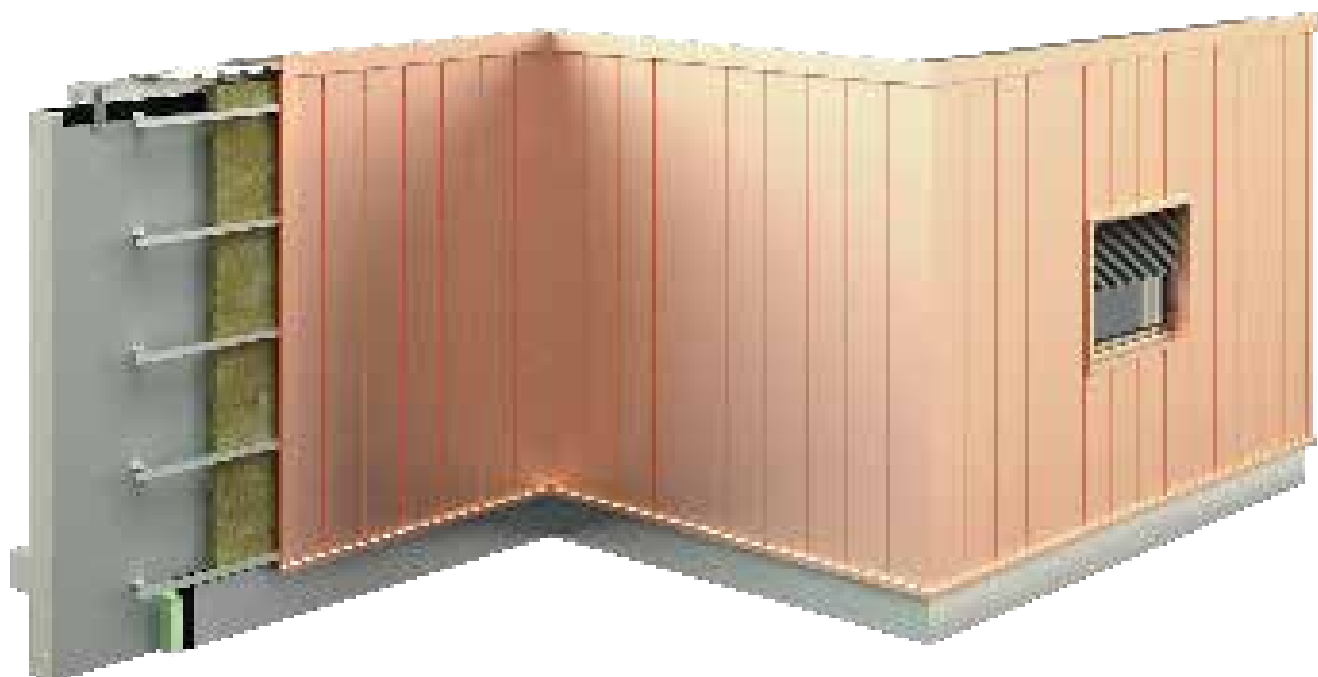
The installation of the slot-in panels is very easy and takes place through the use of screws and rivets directly to the subconstruction. The fixing elements are concealed by the application of the tongue and groove principle. Longitudinal and transversal expansion must be compensated by using adequate expansion details.

The system can be completed with the related facade components (metal substructure, isolation, outer- and inner corners, joint connectors, fixing devices as well as connecting profiles).

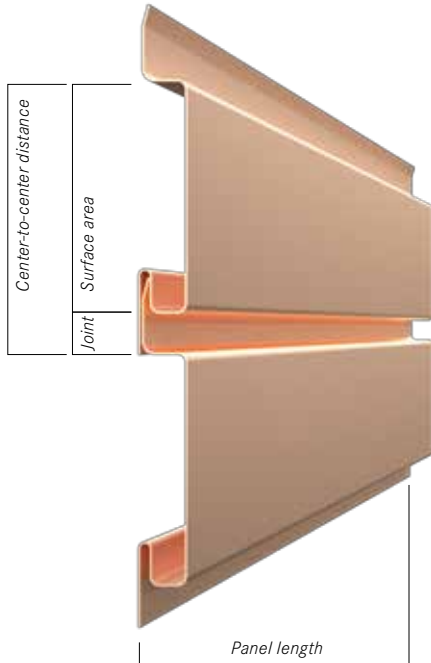
Horizontal cladding



Vertical cladding



Dimensions & Surfaces



Ordering size surface area + joint = center-to-center distance/ordering size

Standard pre-cut dimensions 250/335/400/500/600 mm

Standard center-to-center distance 150/235/300/400/500 mm

Length 500-6000 mm (recommended max. 4000 mm)
TECU® Patina with all center-to-center distance up to 3000 mm

Joint widths 2 mm/5 mm/10 mm/15 mm/20 mm/25 mm

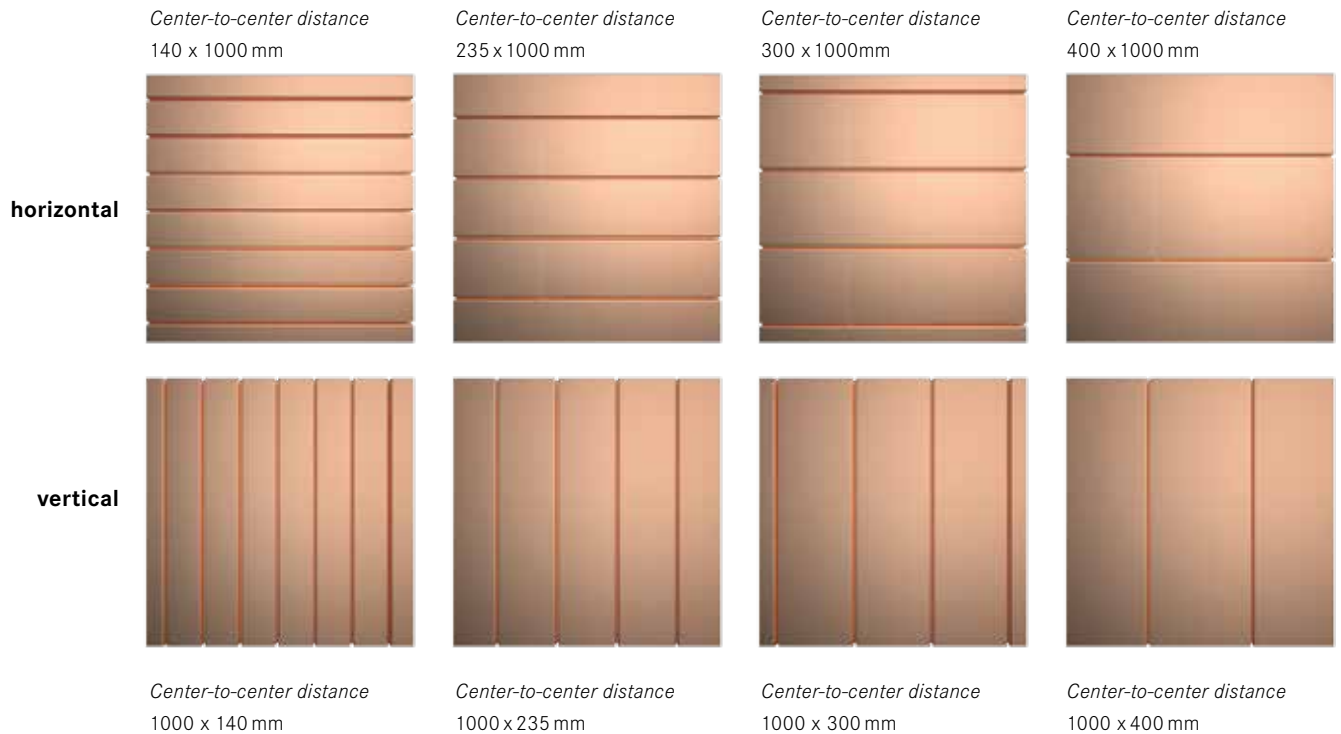
Profile depth ca. 25 mm

Copper/Surfaces **TECU® Classic/TECU® Oxid/TECU® Patina/TECU® Zinn/TECU® Brass/TECU® Bronze/TECU® Gold**

Metal thickness 0.7-1.0 mm with center-to-center distances from 150-300 mm
 1.0-1.5 mm with center-to-center distances from 300-500 mm

installation from top to bottom

extra panel charge single- & double-side closed ends,
 Corner panel and joint connector



Static Values

A restriction of length is required when a facade panel is fixed on both sides due to the created shear force associated to thermal expansion. To avoid the sheet from denting, a limitation on the panel length of 4,000 mm is recommended. The following sheet thickness results for slot-in panels with a pre-cut width from 300 mm to 600 mm included, have been detected using a static calculation depending on panel pre-cut, height and position as well as considerations of the allowed tension.

Minimum sheet thickness for panel pre-cut up to 300 mm

Panel length (mm)	Height 0-8 m Wind pressure $w = 0.50 \text{ kN/m}^2$	Corner suction $w = -1.00 \text{ kN/m}^2$	Height 8-20 m Wind pressure $w = 0.80 \text{ kN/m}^2$	Corner suction $w = -1.60 \text{ kN/m}^2$	Distances of the Substructures (mm)
500	0.70	0.70	0.70	0.70	500
1,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.70	1,000
1,500	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.70	1,000
2,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.70	1,000
3,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.70	1,000
4,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.70	1,000

Minimum sheet thickness for panel pre-cut up to 400 mm

Panel length (mm)	Height 0-8 m Wind pressure $w = 0.50 \text{ kN/m}^2$	Corner suction $w = -1.00 \text{ kN/m}^2$	Height 8-20 m Wind pressure $w = 0.80 \text{ kN/m}^2$	Corner suction $w = -1.60 \text{ kN/m}^2$	Distances of the Substructures (mm)
500	0.70	0.70	0.70	0.70	500
1,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.80	1,000
1,500	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.80	1,000
2,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	1.00	1,000
3,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.80	1,000
4,000	0.70	0.70	0.70	0.70	500
	0.70	0.70	0.70	0.80	1,000

Minimum sheet thickness for panel pre-cut up to 500 mm

Panel length (mm)	Height 0-8 m Wind pressure $w = 0.50 \text{ kN/m}^2$	Corner suction $w = -1.00 \text{ kN/m}^2$	Height 8-20 m Wind pressure $w = 0.80 \text{ kN/m}^2$	Corner suction $w = -1.60 \text{ kN/m}^2$	Distances of the Substructures (mm)
500	0.70	0.80	0.70	1.00	500
1,000	0.70	0.80	0.70	1.00	500
	0.70	1.00	0.80	1.50	1,000
1,500	0.70	0.80	0.70	1.00	500
	0.70	1.00	0.80	1.20	1,000
2,000	0.70	0.80	0.70	1.00	500
	0.70	1.00	0.80	1.20	1,000
3,000	0.70	0.80	0.70	1.00	500
	0.70	1.00	0.80	1.20	1,000
4,000	0.70	0.80	0.70	1.00	500
	0.70	1.00	0.80	1.20	1,000

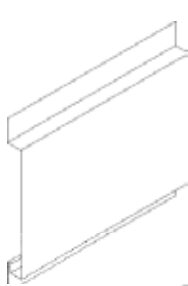
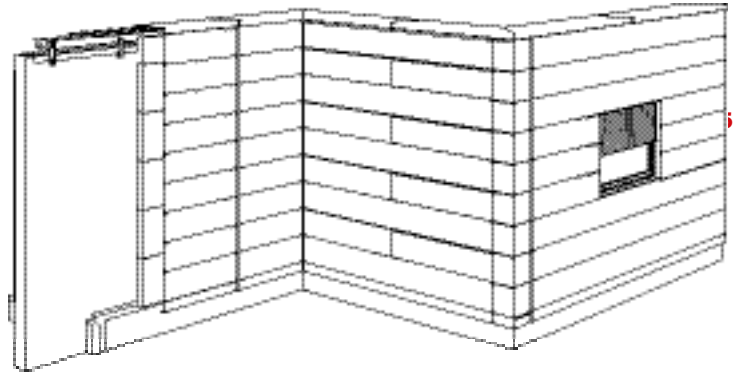
Minimum sheet thickness for panel pre-cut up to 600 mm

Panel length (mm)	Height 0-8 m Wind pressure $w = 0.50 \text{ kN/m}^2$	Corner suction $w = -1.00 \text{ kN/m}^2$	Height 8-20 m Wind pressure $w = 0.80 \text{ kN/m}^2$	Corner suction $w = -1.60 \text{ kN/m}^2$	Distances of the Substructures (mm)
500	0.70	1.00	1.00	1.50	500
1,000	0.70	1.00	1.00	1.50	500
	1.00	1.50	1.20	—	1,000
1,500	0.70	1.00	1.00	1.50	500
	1.00	1.50	1.20	—	1,000
2,000	0.70	1.00	1.00	1.50	500
	1.00	1.50	1.20	—	1,000
3,000	0.70	1.00	1.00	1.50	500
	1.00	1.50	1.20	—	1,000
4,000	0.70	1.00	1.00	1.50	500
	1.00	1.50	1.20	—	1,000

Panels

Bottom end

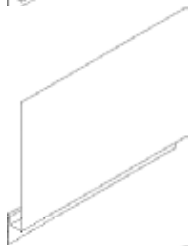
Joint connector



1

Slot-in panel PNF

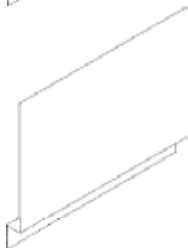
Use: *Area*
 Center-to-center distance =
 Surface area + Joint
 Pre-cut = Center-to-center distance +
 100 mm



1.1

Special panel SN

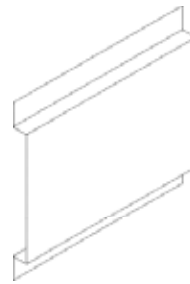
Use: *Fitting panel*
 Pre-cut = Surface area + 70 mm



1.2

Special panel SF

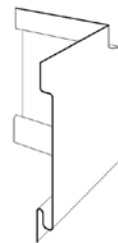
Use: *Fitting panel*
 Pre-cut = Surface area + Joint + 30 mm



3

Special panel FF

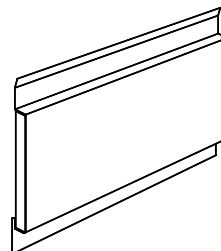
Use: *Closing panel*
 Pre-cut = Surface area + joint
 + 70 mm



4

Corner panel EP

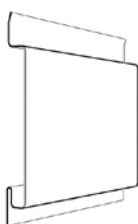
Use: *Outside corner*
 Pre-cut = As panel
 max. side length 500 mm
 bended
 > 500 mm just for cut-out



5

Bottom end

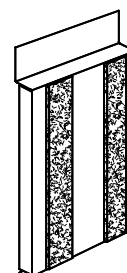
Use: *Panel closing*
 Pre-cut = 20 mm per end



2

Slot-in panel FBNF

Use: *Possible start panel*
 Center-to-center distance =
 Surface area + Joint
 Pre-cut = Center-to-center distance +
 120 mm



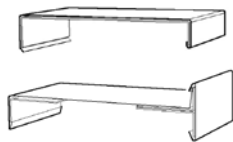
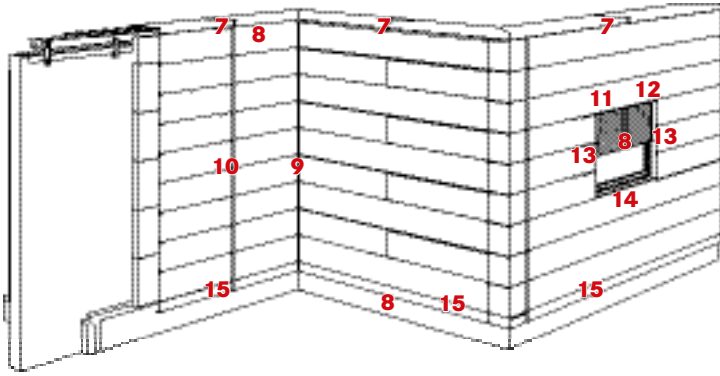
6

Joint connector

Use: *Panel joining*
 Pre-cut = Panel size

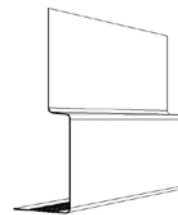
Connection profiles

The profiles listed below are examples to compliment with your own profiles



7

Use: *Wall-/ Roof parapet cover*
1 or 2 piece versions
Pre-cut = According to length
Length = 2000/3000 mm



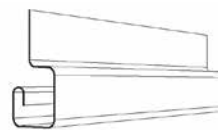
11

Use: *Lintel profile* without roller shutter
Pre-cut = According to length
Length = 2000/3000 mm



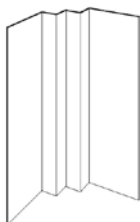
8

Use: *Slot-in profile*
Connection to windows, doors,
roof parapets and eaves
Pre-cut = 167 mm + 6 bendings
Length = 2000/3000 mm



12

Use: *Lintel profile with roller shutter*
Pre-cut = According to length
Length = 2000/3000 mm



9

Use: *Inner corners*
Pre-cut = 330 mm + 5 bendings
Length = 2000/3000 mm



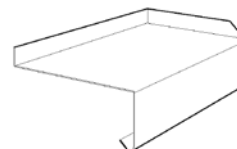
13

Use: *Reveal profile*
Pre-cut = According to length
Length = 2000/3000 mm



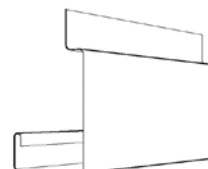
10

Use: *Pilaster strip profile*
Pre-cut = 330 mm + 4 bendings
Length = 2000/3000 mm



14

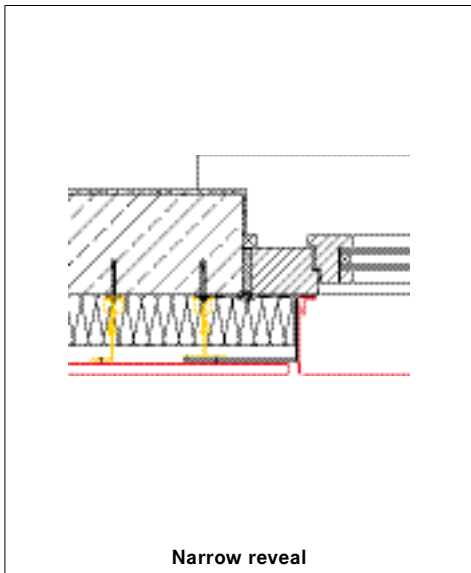
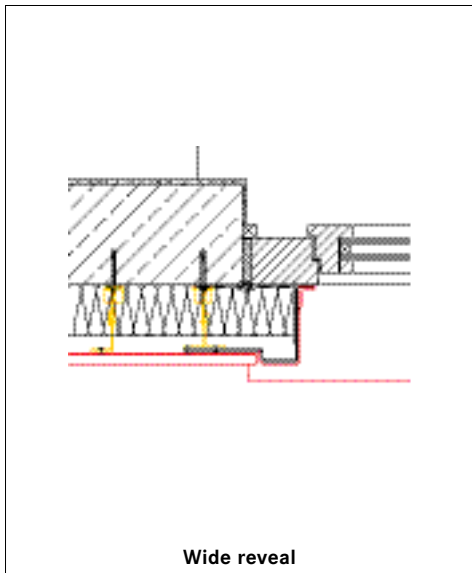
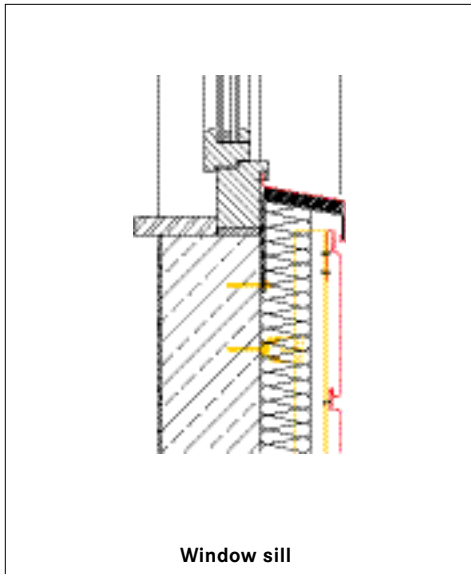
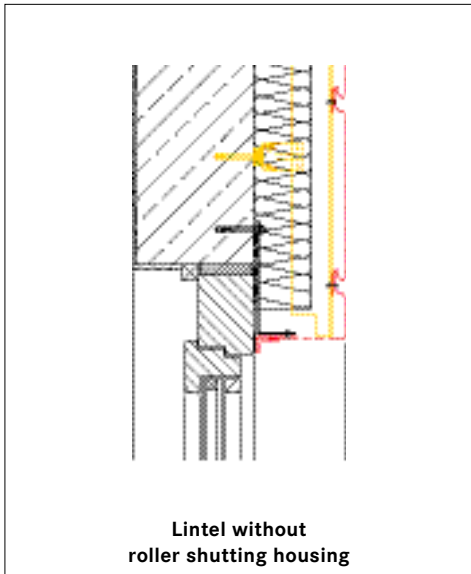
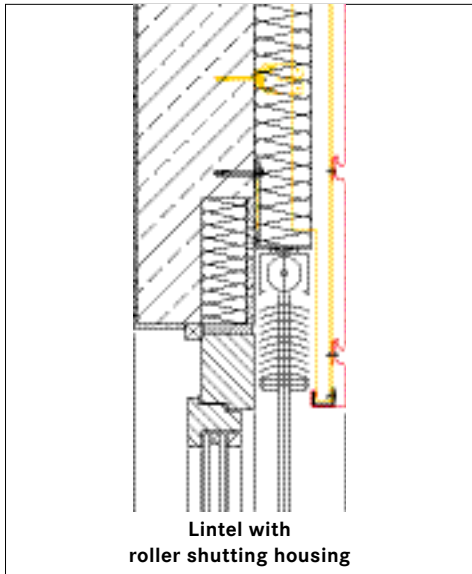
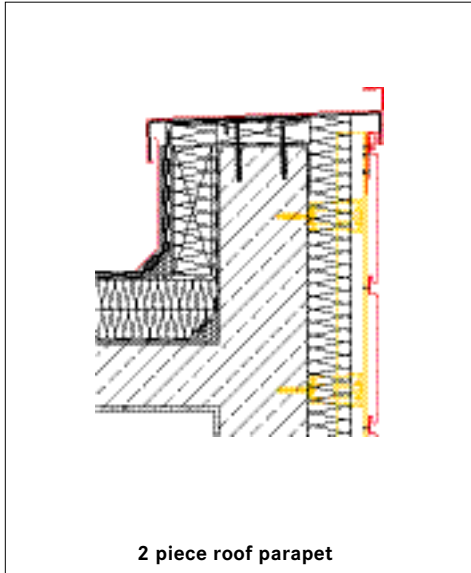
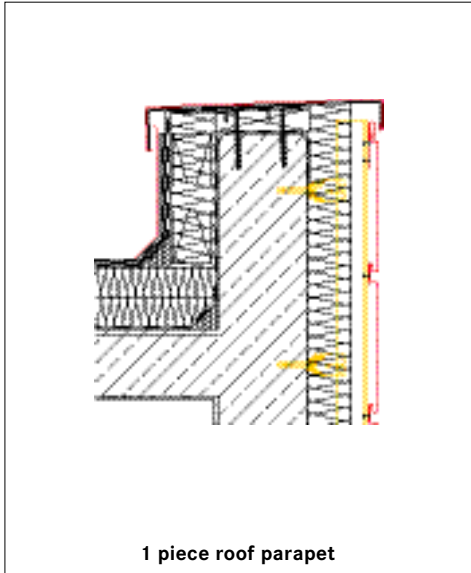
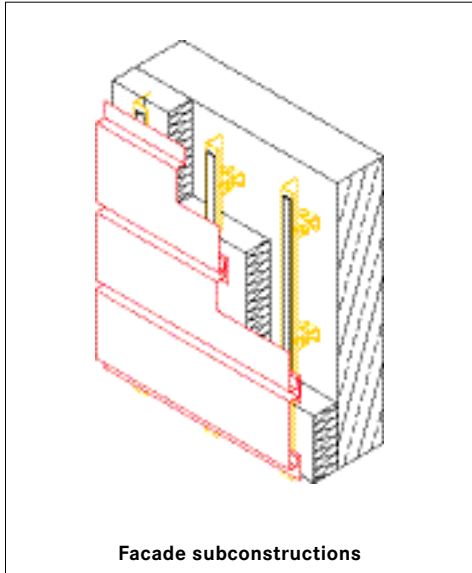
Use: *Window sill profile*
Pre-cut = According to length
Length = 2000/3000 mm

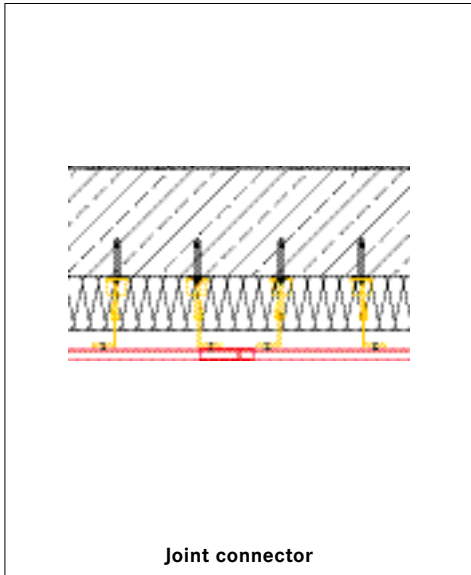
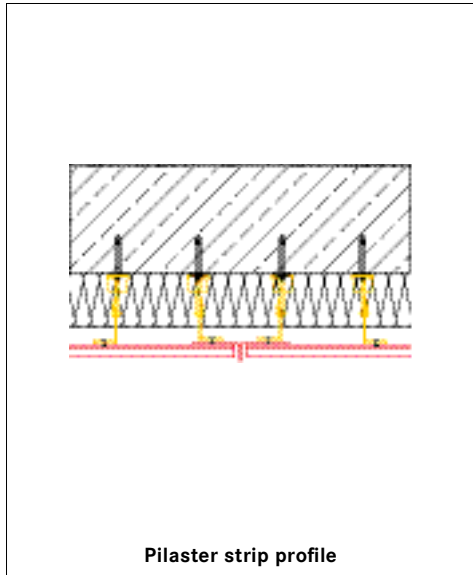
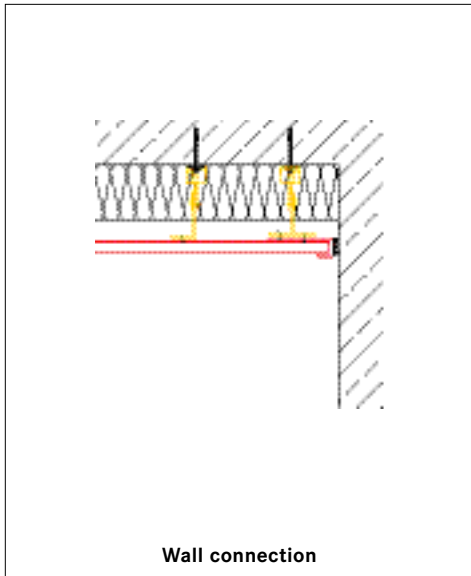
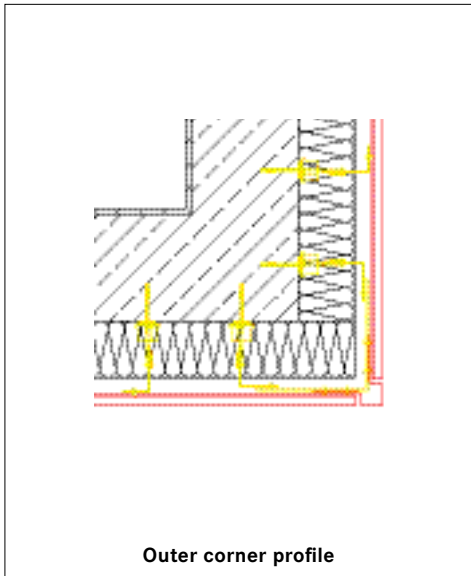
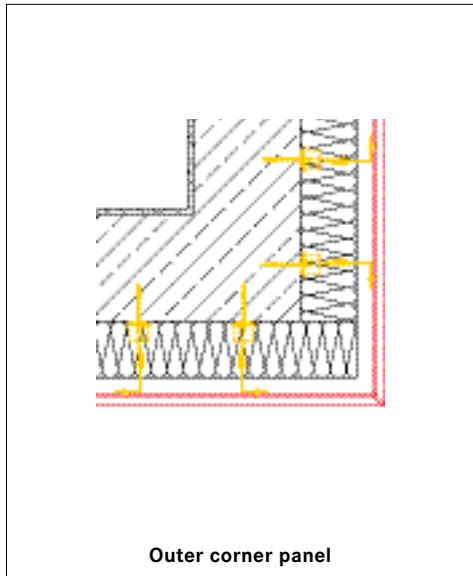
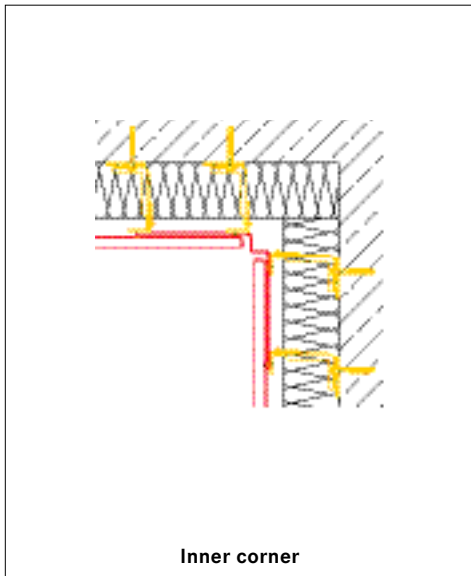
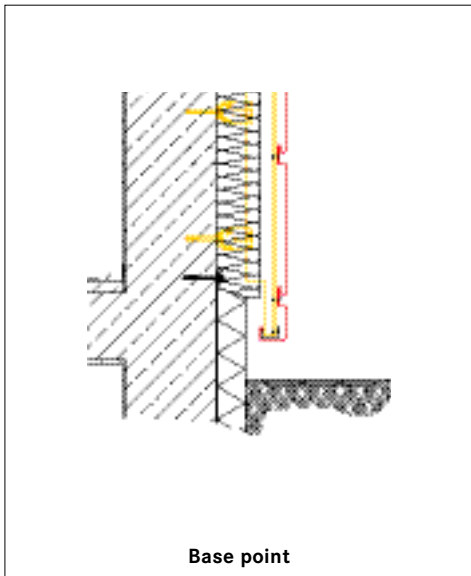
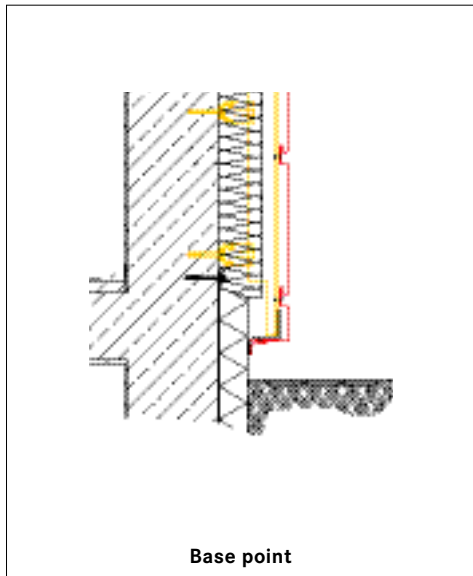


15

Use: *Eave profile*
Pre-cut = According to length
Length = 2000/3000 mm

Substructures fixed on concrete

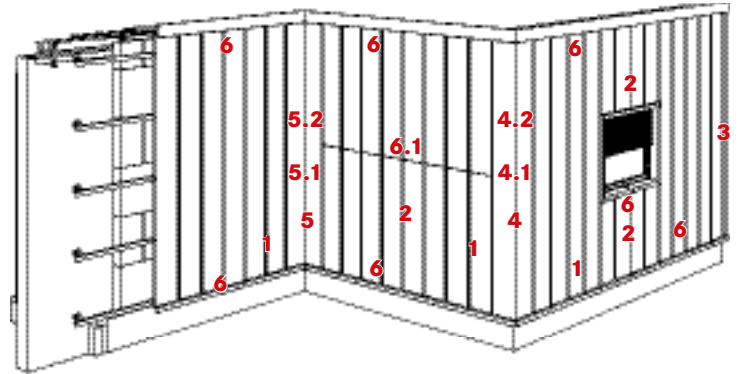
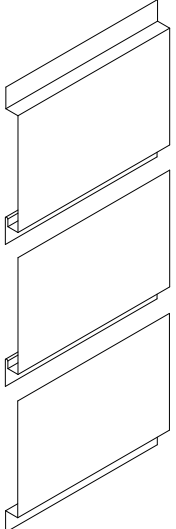




Panels

Bottom end

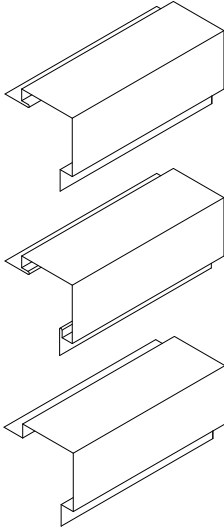
Joint connector

1
Slot-in panel PNF
Use: *Area*
Center-to-center distance =
Surface area + Joint
Pre-cut = Center-to-center distance +
100 mm

1.1
Special panel SN
Use: *Fitting panel*
Pre-cut = Surface area + 70 mm

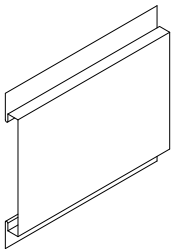
1.2
Special panel SF
Use: *Fitting panel*
Pre-cut = Surface area + Joint + 30 mm



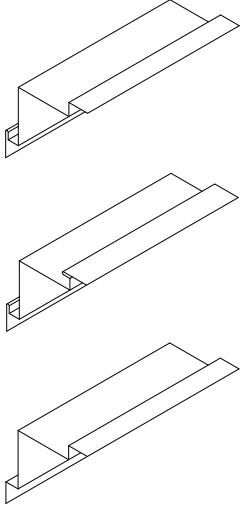
4
Outer corner panel AENF
2x Surface Area + 1 Joint + 100 mm

4.1
Outer corner panel AENN
2x Surface Area + 1 40 mm

4.2
Outer corner panel AEFF
2x Surface Area + 2x Joint + 60 mm



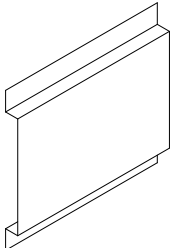
2
Special panel NN
Use: *starting or fitting panel*
Pre-cut = Surface area + 140 mm



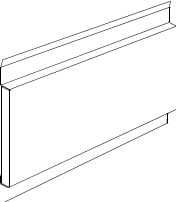
5
Inner corner panel IENF
2x Surface Area + 1 Joint + 100 mm

5.1
Inner corner panel IENN
2x Surface Area + 1 40 mm

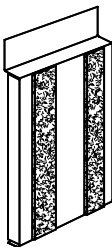
5.2
Inner corner panel IEFF
2x Surface Area + 2x Joint + 60 mm



3
Special panel FF
Use: *Closing or fitting panel*
Pre-cut = Surface area +
2x Joint + 60 mm



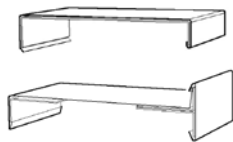
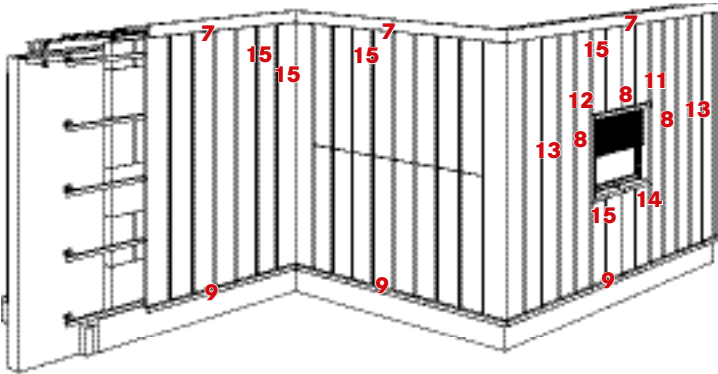
6
Bottom end
Use: *Panel closing*
Pre-cut = 20 mm per end



6.1
Joint connector
Use: *Panel joining*
Pre-cut = Panel size

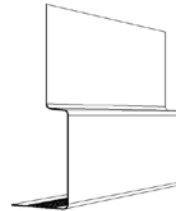
Connection profiles

The profiles listed below are examples to compliment with your own profiles



7

Use: *Wall-/Roof parapet capping*
1 or 2 piece versions
Pre-cut = According to length
Length = 2000/3000 mm



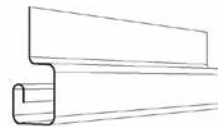
11

Use: *Lintel profile without roller shutter*
Pre-cut = According to request
Length = 2000/3000 mm



8

Use: *Slot-in profile*
Connection to windows, doors,
roof parapets and eaves
Pre-cut = 167 mm + 6 bendings
Length = 2000/3000 mm



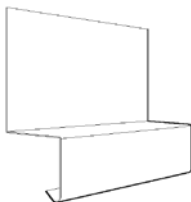
12

Use: *Lintel profile with roller shutter*
Pre-cut = According to request
Length = 2000/3000 mm



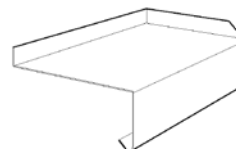
13

Use: *Reveal profile*
Pre-cut = According to request
Length = 2000/3000 mm



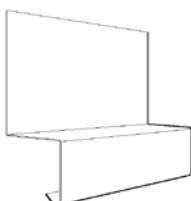
9

Use: *base point profile*
Pre-cut = According to request
Length = 2000/3000 mm



14

Use: *Window sill profile*
Pre-cut = According to request
Length = 2000/3000 mm



10

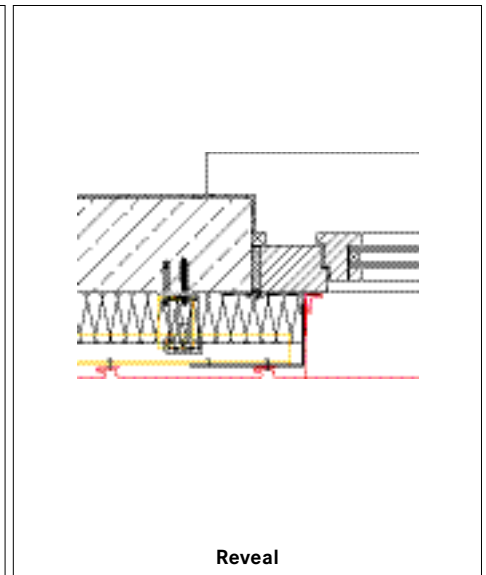
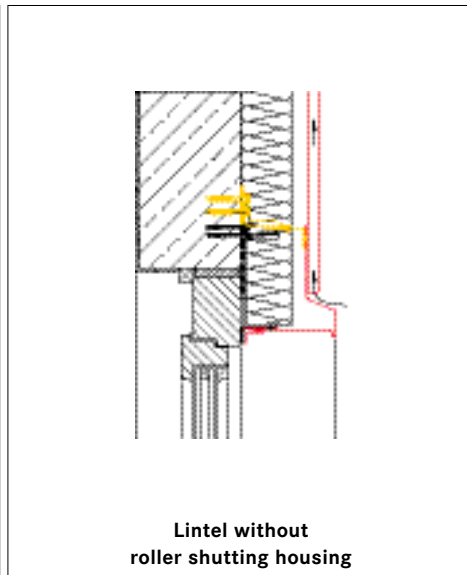
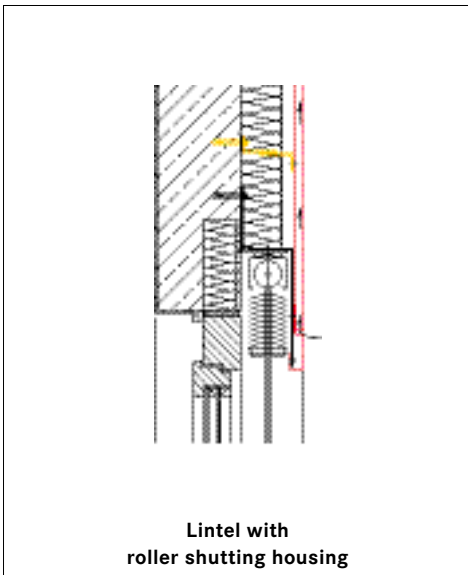
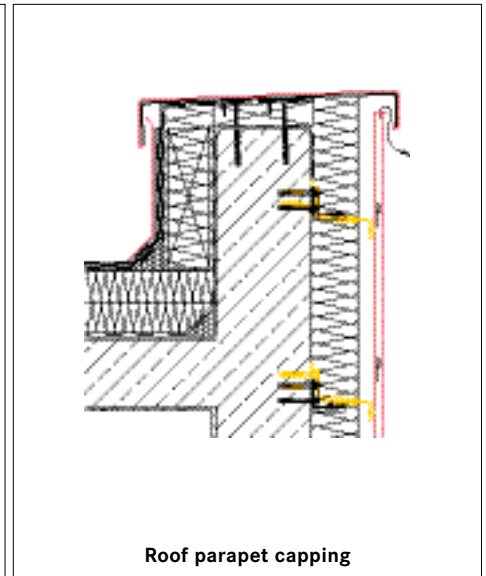
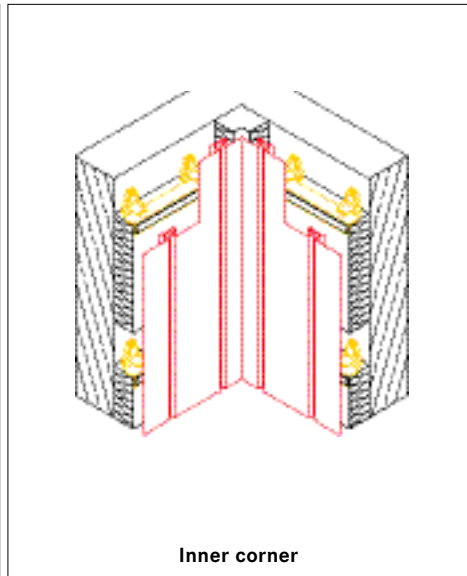
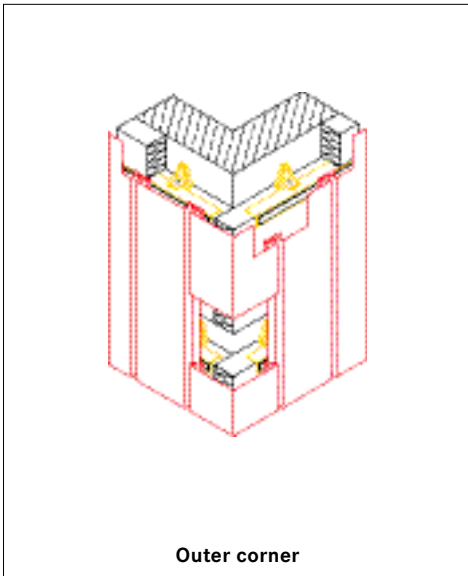
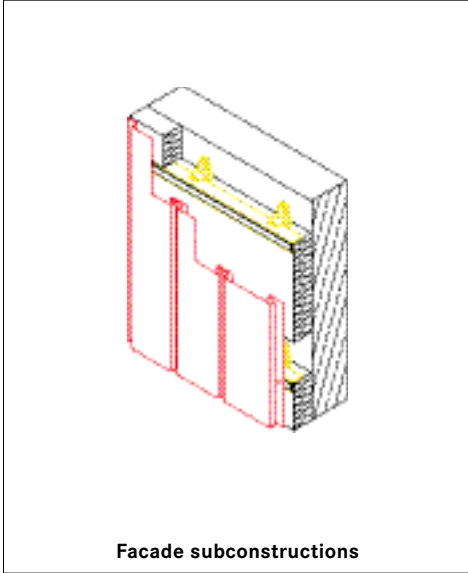
Use: *Vertical joint profile*
Pre-cut = 330 mm + 3 bending
Length = 2000/3000 mm

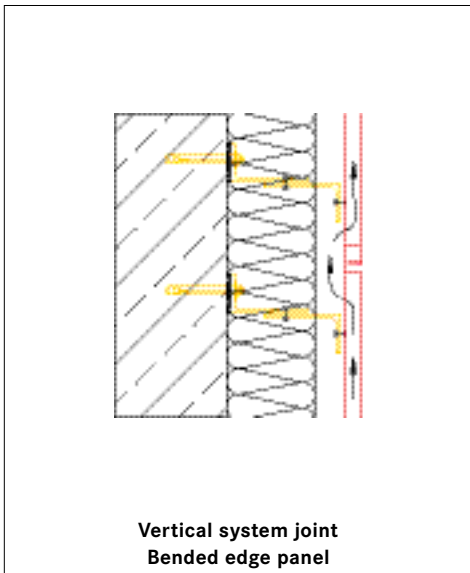
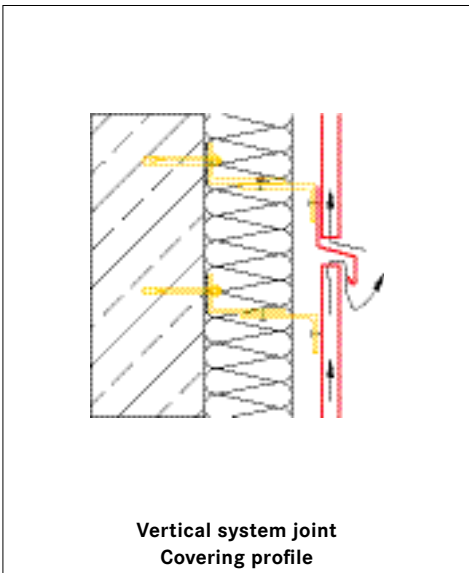
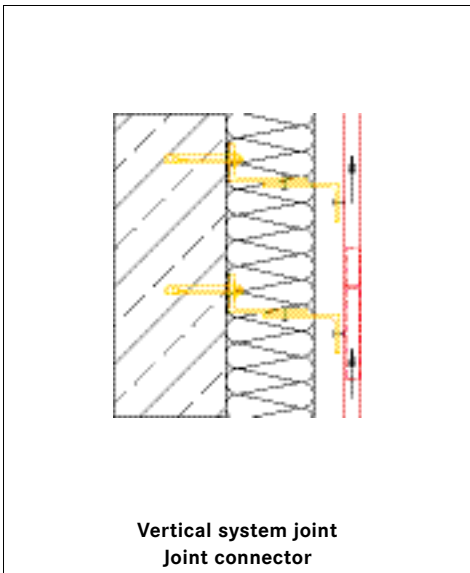
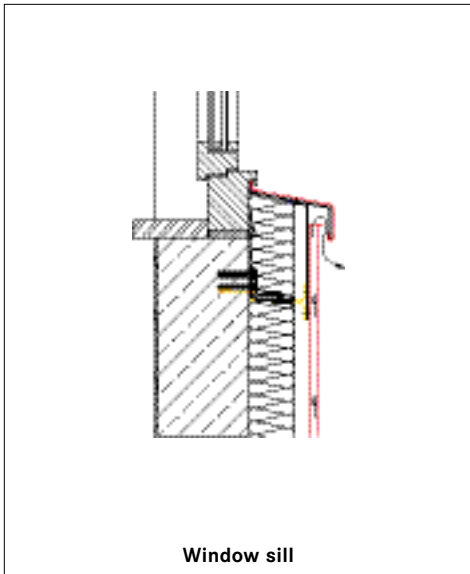
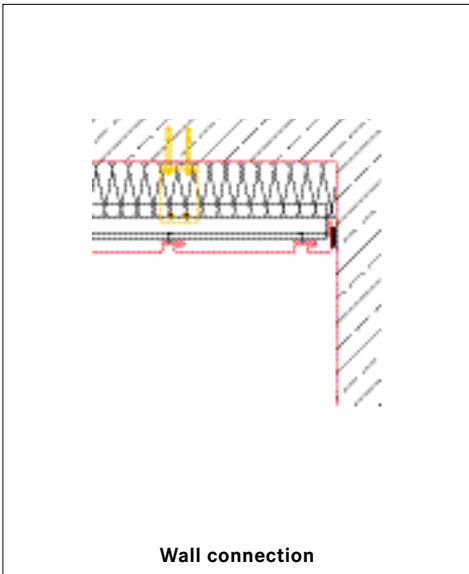
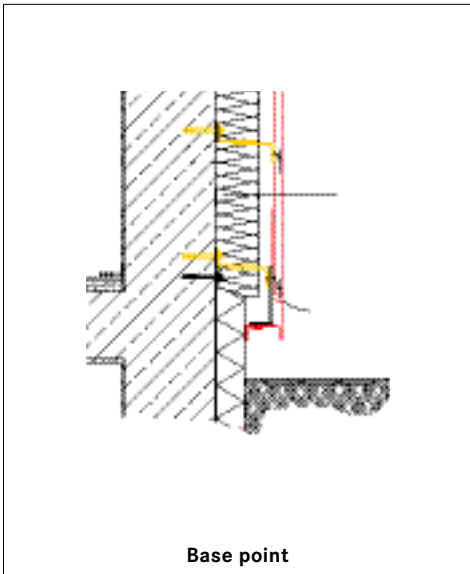


15

Use: *Bottom end for ventilation*
Pre-cut = Panel length + 17mm

Substructures fixed on concrete





Facade checklist

Project

PM

Customer

Person in charge

Telephone

e-Mail

New Customer

New building

Refurbishment

full static calculation required

sketch of the offer

Cladding type

Plate thickness (mm)

Facade area (m²)

Weight (kg/m²)

Plate fixing type

visible (Rivets)

Bracket fixing

Bold hook

Concealed

Subconstruction fixing type riveted

screwed

Subconstruction :

Anchor base

d = cm

Density

brick format

Compression
Strength

non-bearing
layer in cm
(e.g. plaster)

Joggle

Fischer

Hilti

Pull out tests (add protocol)

Building information

Length (m)

Width (m)

Height (m)

Wind loads or wind zone

PO Box / City

Distance to the wall in mm (until exterior cladding limit)

Wall insulation (d = mm)

Drawings (Views, Plate sizing, Sections, Floor plans, DWG- and PDF-documents)

Has there already been made a static calculation for this or a similar project? no yes, no.:

Can the building resist additional loads? no yes

Can the building facade resist point loads? no yes

Other information

Desired deadline

Date / Signature

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