

KERRAFRONT. CELLULAR CLADDING

INSTRUCTION FOR INSTALLATION AND USE

SUMMARY

Installation - general rules
Cladding boards - detailed description
Summary of the rules for implementation
Ventilation
Dilatation
FS-201/FS-202/FS-302/FS-304 Horizontal installation - general rules - ventilation gap = 20 mm
FS-201/FS-301/FS-202/FS-302/FS-304 Horizontal installation - general rules - ventilation gap = 40 mm
Trims and accessories
Principles of positioning the screws in the fixing holes
Horizontal installation - general rules
Horizontal installation - system CONNEX
Horizontal installation on a timber frame wall
Horizontal installation on masonry
Installation on masonry wall with metal brackets
Vertical installation FS-301/FS-202/FS-302/FS-304
Technical data sheet

INSTALLATION - GENERAL RULES

1. GENERAL RULES

1.1. Storage

Cellular cladding profiles should be stored inside, on a dry, flat and firm base, without direct contact with the ground. While still in its protective sleeving they should not be stored in places where they may be exposed to direct sunlight.

1.2. Transport (on the pallet)

The profiles should be transported in a horizontal position.

The profiles should be transported in a horizontal position.

1.3. If any visible flaws emerge or irregularities are detected, report them immediately to the seller before installation.

1.4. Installation temperature

The installation should be carried out at ambient temperatures of between 5°C a 30°C. Prior to installation the profiles should be allowed to adjust to atmospheric conditions at the installation site for approx. 24 hrs.

1.5. Dilatation

Keep expansion gaps: the change in size due to significant changes in ambient temperature is a natural and inalienable feature of any item of almost any material, including cellular PVC. Therefore, during the installation always mind the necessity of maitaining expansion gaps between panel ends and the inside pas of finishing trims: - ca. 8-10 mm for colours: White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG), Ivory (IV), Pearl Grey

ca. 8-10 mm for colours: White (WH), Gream (GR), Beige (BE), Glaystone (GS), Light Grey (LG), Ivory (IV), Pearl Grey (PG) on boards FS-201, FS-202, FS-302, FS-304

- ca. 15 mm for all other colours.

If the installation takes place in higher ambient temperatures (25-30°C) the clearance should be reduced to ca. 3-4 mm. Bear in mind that with every 10°C of temperature change, total profile length may expand/contract by approx. 0.7 mm per each meter of length.

1.6. Ventilation

Keep ventilation gap behind the cladding panels as specified below (see page 6).

1.7. Working with the profiles

Cellular PVC profiles and accessory trims can be worked using conventional carpentry tools for cutting, drilling and shaping. Saws with fine-toothed blades should be used and power tools should be operated at the same or higher speeds to those normally used for timber work.

1.8. Do not modify the product by machining its surface or coating it with a layer of another material.

19. Observe all the rules indicated in the instruction for installations and use.

2. INSTALLATION

2.1. Preparation of the supporting structure

The supporting structure should be made of timber battens or studs, fastened to walls directly or with the use of metal brackets. **IMPORTANT:** all battens should be levelled to reduce any surface irregularities; if necessary, use wedges to level out the irregularities. Timber battens requirements:

- should be made of good quality timber, free of knots, the humidity of 15-18%, suitably treated with preservative
- should be firmly and reliably fixed using screws / wall plugs or other fixings suitable for the type of substrate

- the spacing between intermediate battens/studs directly behind the cladding should not exceed 40 cm centers (max 60 cm for colours: White, Creme, Beige, Claystone, Light Grey, Sand)

- at the corners of a wall and under joint trims use double battening (or battens of double width)

- battens/ studs behind the facade cladding should always provide a proper ventilation gap behind the facade panels: a) min. 20 mm for colours (White, Creme, Beige, Claystone, Light Grey, Sand)

b) min. 40 mm for all other colours.

2.2. Installation of finishing trims

Fix the ventilation trims and the starter trims and at the bottom of the area to be clad. **IMPORTANT:** in order for the cladding to be installed properly in a level fashion, the starter trims at the bottm of the walls MUST be level. Keep the ends of starting trims at least 5 mm apart to allow for expansion.

Fix the inner parts of perimeter trims over supporting battens; fix vertical trims using specified fixings at recommended intervals of 30 cm. Do not fix outer parts of the 2-part trims before panels are installed. The outer parts should be put aside and protected from damage until ready for use.

2.3. Installation of cladding boards

Plan out the places of panel butt-joints on the area to be clad. If a center joint trim is to be used, it should be fixed on supporting batten at least of the same width (use 2 battens if necessary). If joint covers are to be used to butt-join adjacent panels, they should be staggered to make a regular pattern on a wall. Cut the panels to required lengths based on that planning.

Mount the first cladding board on the starter trim, ensuring that the back leg of the panel is engaged in the trim slot. Board fixing should commence at the center of its length to the batten through the nailing slot or groove at the top edge, then work progressively outwards. Fasteners should always be placed in the middle of the length of a slot. If a nail slot falls outside a supporting batten, use a batten offcut, fasten it to the substrate under the required slot and screw the panel to the timber offcut with a fastener. Always make sure that each end of a board is screwed/nailed to a batten.

IMPORTANT: In wooden decors panels are not identical - they can differ significantly from each other. Before installation, you need to open a few different packages and think about how to arrange them on the wall for the desired effect.

IMPORTANT: Never drive the head of the fastener tight into the panel surface, as it may hinder any thermal movement. Keep a small clearance between the fastener heads and panel surface so that each panel can be moved horizontally left/right after all its fasteners have been screwed to the battens.

IMPORTANT: Maintain expansion gaps between panel ends and the inside parts of the finishing trims, as indicated above. The gaps will subsequently be concealed by the outer parts of finishing trims. All joint covers and vertical trims must be fixed on supporting battens. Joint covers should be installed tight to the panel ends as work proceeds - their spacing lugs will automatically provide proper clearance between adjacent panel lengths. Joint covers cannot be placed directly one over another. Joint covers forming a vertical line should be separated from each other by at least 2 courses of cladding panels. Provide packing behind any panels cut along the top edge; panel off-cuts may be suitable for that purpose.

2.4. Insert the top parts of all 2-part trims to finish the installation

No fixings are required.

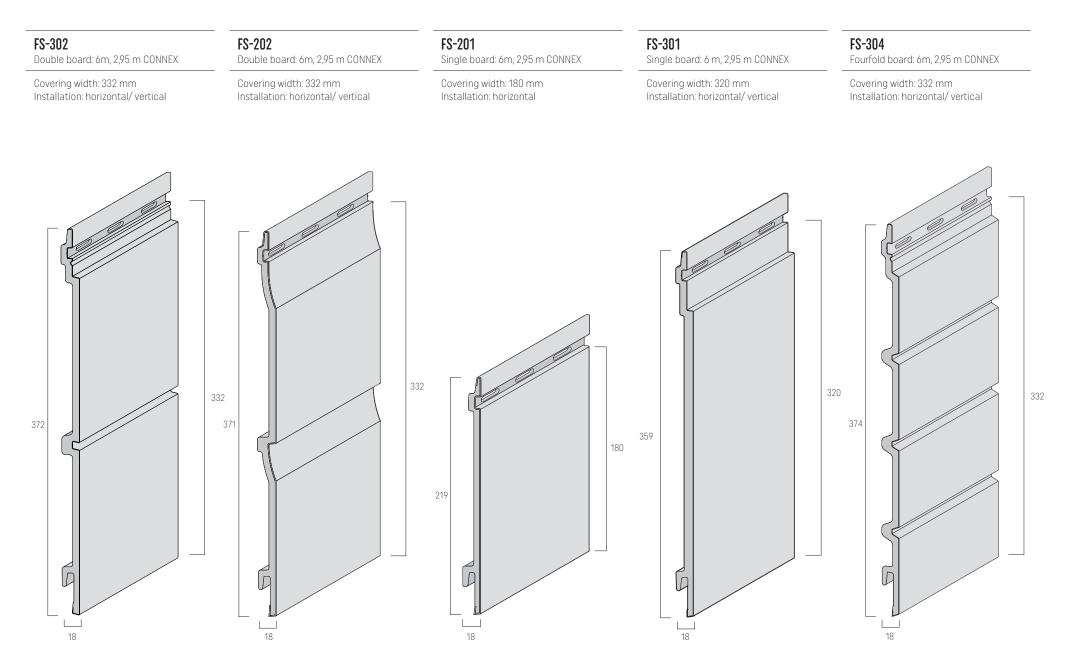
3. INFORMATION FOR USAGE

During the use, possible colour changes caused by sunlight, in moderate climate, with air temperatures not exceeding 40°C, at a height of up to 1800 m above sea level, may have a homogeneous nature not exceeding the 3rd degree in the grey scale (EN 20105-A02).

4. CLEANING AND MAINTENANCE

Cellular cladding profiles are finished, practically maintenance-free products. In order to preserve the esthetics we recomend to clean it at least once a year depending on the degree of soiling. Clean the panels and trims using a domestic detergent solution with a temperature not exceeding 40°C. Do not use solvents or similar aggressive and caustic fluids. Wash the surface with clean water after cleaning.

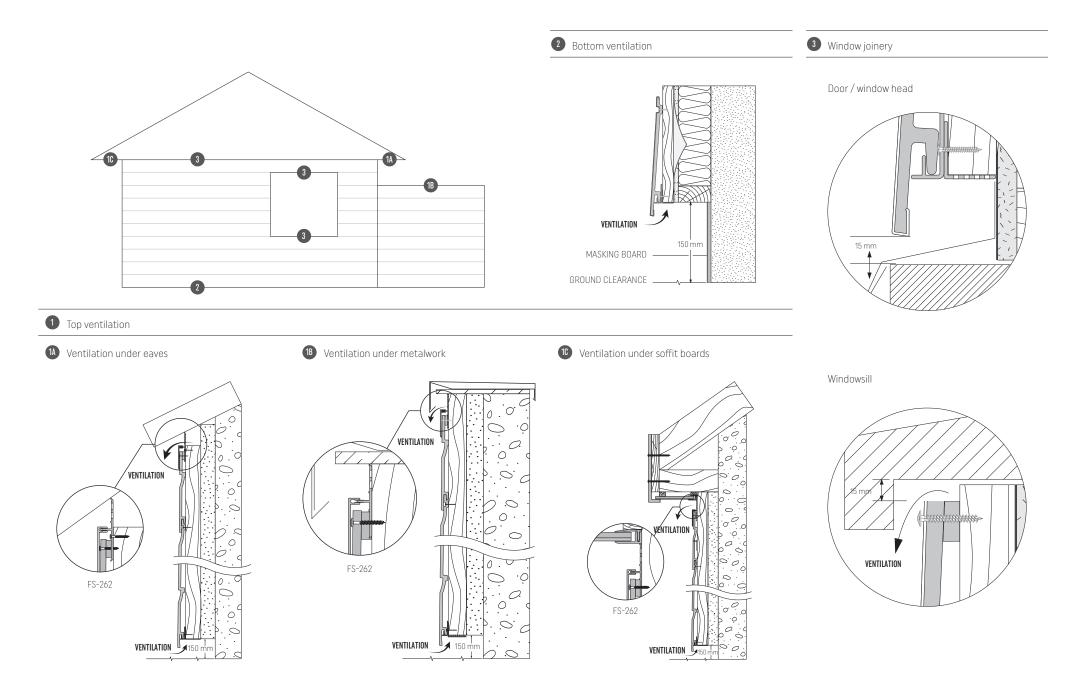
CLADDING BOARDS - DETAILED DESCRIPTION



SUMMARY OF THE RULES FOR IMPLEMENTATION

COLLECTION	TYPE OF THE BOARD	TYPE/ LENGHT	COLOUR	VENTILATION	SPACE BETWEEN THE BATTENS	
		FS-302 6 m	White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG)	2 cm	40 cm (60 cm possible)	
	Double board	F3-302 0 III	Quartz Grey (QG), Antharcite (AN)	4 cm	40 cm	
	bousie source	FS-302 CONNEX 2,95 m	White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG)	2 cm	40 cm	
MODERN WOOD		10 002 000002,70 00	Quartz Grey (QG), Antharcite (AN)	4 cm	10 0111	
	Fourfold board	FS-304 6 m	White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG)	2 cm	40 cm (60 cm possible)	
		15 504 0111	Quartz Grey (QG), Antharcite (AN)	4 cm	40 cm	
			White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG)	2 cm	40 cm	
		FS-304 CONNEX 2,95 m	Quartz Grey (QG), Antharcite (AN)	4 cm	40 011	
		FS-301 6 m				
TREND	Single board		lvory (IV), lvory Stone (IVS), Mastic (MA), Mastic Stone (MAS), Pearl Grey (PG) Pearl Grey Stone (GPS), Anthracite (AN), Anthracite Stone (ANS)	4 cm	40 cm	
		FS-301 CONNEX 2,95 m	Pean Grey Stone (GPS), Anthracite (AN), Anthracite Stone (ANS)			
0140010	Single board	FS-2016 m	White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG)	2 cm	40 cm (60 cm possible)	
			Grey (GR), Quartz Grey (QG), Ollive (OL), Antharcite (AN)	4 cm	40 cm	
CLASSIC		FS-201 CONNEX 2,96 m	White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG)	2 cm	40 cm	
			Grey (GR), Quartz Grey (QG), Ollive (OL), Antharcite (AN)	4 cm		
CLASSIC	Double board	FS-202 6 m	White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG)	2 cm	40 cm (60 cm possible)	
		10 202 0111	Grey (GR), Quartz Grey (QG), Ollive (OL), Antharcite (AN)	4 cm 40 (BE), Pearl Grey (PG) 2 cm 40 (BE), Pearl Grey (PG) 2 cm 40 (BE), Pearl Grey (PG) 2 cm 40 tric Stone (MAS), Pearl Grey (PG) 4 cm 40 tric Stone (MAS), Pearl Grey (PG) 4 cm 40 ne (CS), Light Grey (LG) 2 cm 40 arcite (AN) 4 cm 40 ne (CS), Light Grey (LG) 2 cm 40 arcite (AN) 4 cm 40 arcite (AN	40 cm	
RETRO	Double board	FS-202 6 m	Cream (CR), Beige (BE), Sand (SA)	2 cm	40 cm (60 cm possible)	
			Blue (BL)	4 cm	40 cm	
	Single board	FS-2016 m		4 cm	40 cm	
RUSTIC		FS-201 CONNEX 2,95 m	Tawny (TA), Aqua Blue (AB), Sky Grey (SKG)			
RUSTIC	Double board	FS-202 6 m				
		FS-202 CONNEX 2,95 m				
	Single board	FS-201 6 m				
WOOD DESIGN			Golden Oak (GO), Silvergrey (SG), Graphite (GP)	4 cm	40 cm	
		FS-201 CONNEX 2,95 m				
WOOD EFFECT						
	Fourfold board	FS-304 6 m		4 cm		
		FS-304 CONNEX 2,95 m	Malt Oak (MO), Concrete Oak (CO), Alpine Oak (AO), Caramel Oak (CAO)		40 cm	
	Single board	FS-2016 m				
		FS-201 CONNEX 2,95 m				

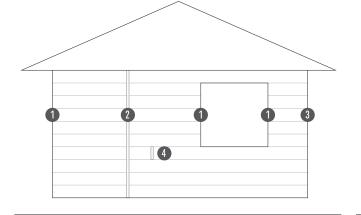
VENTILATION The principle of ventilated cladding requires that the air path must not be obstructed both at the top and bottom of the clad area.



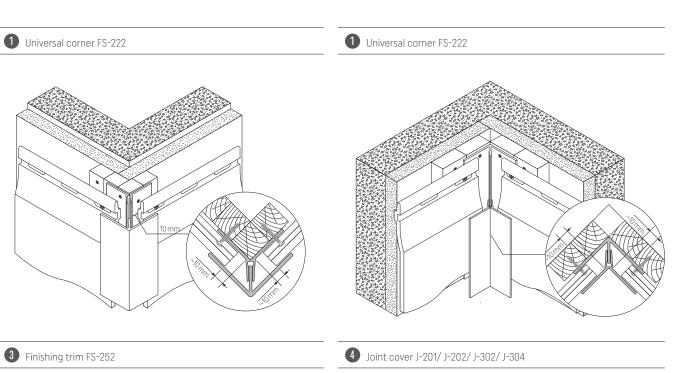


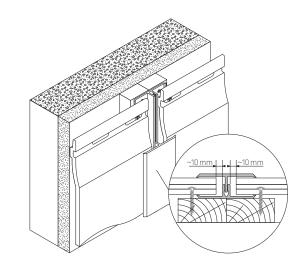
Proper allowance for expansion is made by:

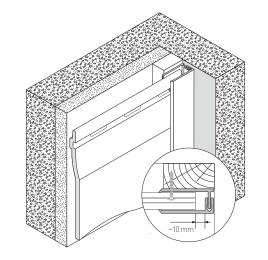
- $\boldsymbol{\cdot}$ keeping sufficient expansion gaps at each board end
- $\boldsymbol{\cdot}$ screwing fasteners not too tight so that
- the boards can move freely
- positioning fasteners inside nail slots, at least 1 cm away from their extremes

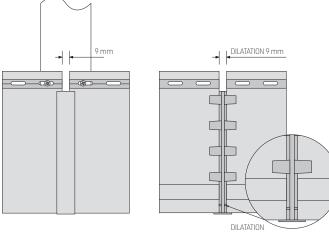


2 Center joint trim FS-282









FRONT

BACK

FS-201/ FS-202/ FS-302/ FS-304 HORIZONTAL INSTALLATION - GENERAL RULES - VENTILATION GAP = 20 MM, see page 6

Pic. 1. KERRAFRONT 6 m - single board FS-201/ double board FS-202, FS-302/ fourfold board FS-304

Batten thickness dependent on the kind wall where the cladding is installed:

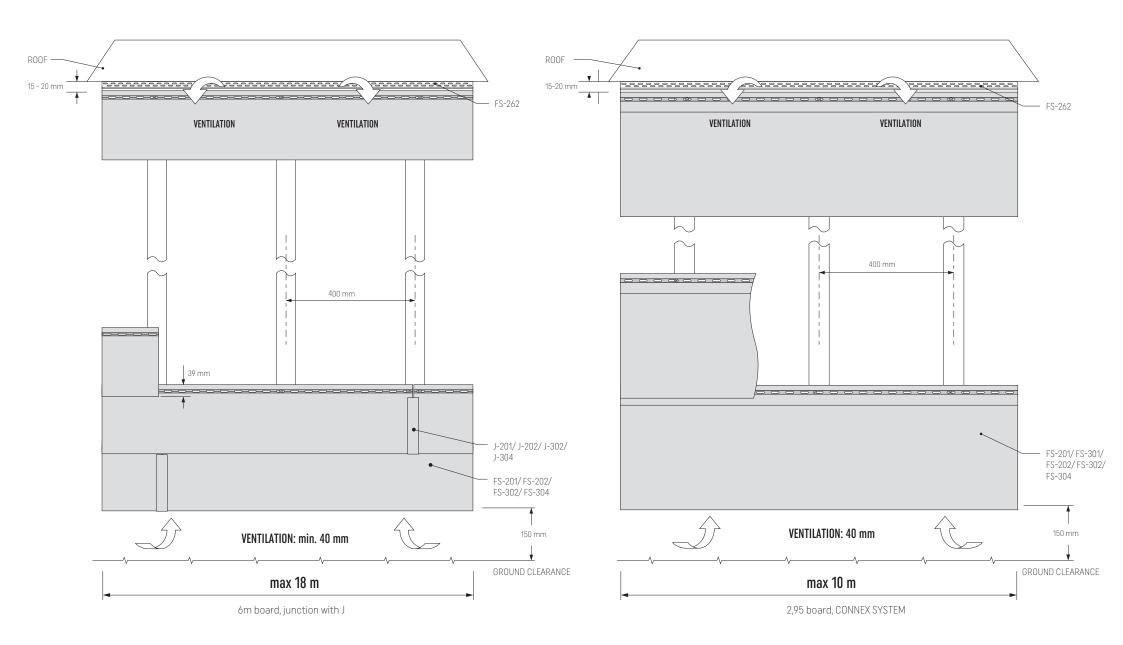
Pic. 2 KERRAFRONT CONNEX 2,95 m - single board FS-201/ double board FS-202, FS-302/ fourfold board FS-304

- timber frame wall: thickness 22 mm - masonry (external insulation): thickness minimum 30 mm. ROOF ROOF 15 - 20 mm ------15 - 20 mm 1 - FS-262 FS-262 VENTILATION VENTILATION VENTILATION VENTILATION 400 mm 400 mm max 600 mm ____ 39 mm ______ J-201/ J-202/ J-302 FS-201/FS-302 FS-201/ FS-202/ FS-302 **VENTILATION: 20 mm** 150 mm 150 mm VENTILATION: min. 20 mm GROUND CLEARANCE GROUND CLEARANCE max 18 m max 10 m 2,95 board, CONNEX SYSTEM 6m board, junction with J

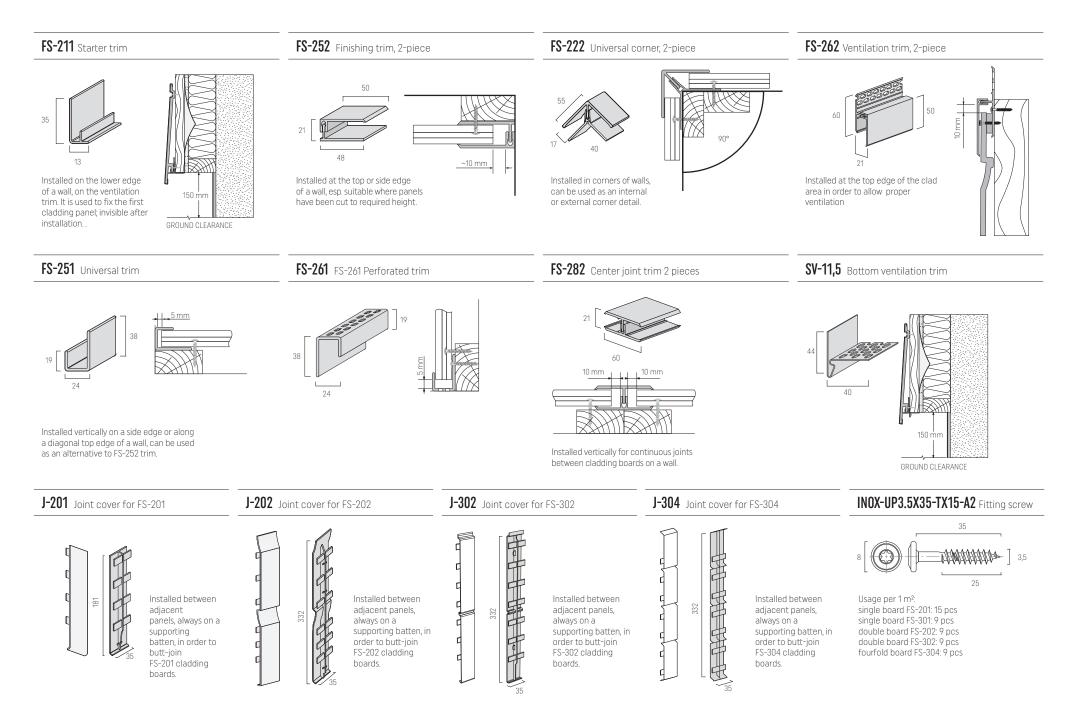
FS-201/ FS-301/ FS-202/ FS-302/ FS-304 - HORIZONTAL INSTALLATION - GENERAL RULES - VENTILATION GAP = 40 MM, see page 6

Pic. 3. KERRAFRONT 6 m - single board FS-201, 301/ double board FS-202, FS-302/ fourfold board FS-304

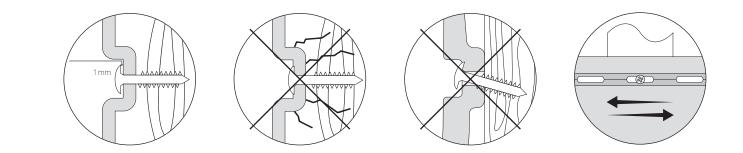
Pic. 4. KERRAFRONT CONNEX 2,95 m - single board FS-201/ 301/ double board FS-202, FS-302/ fourfold board FS-304

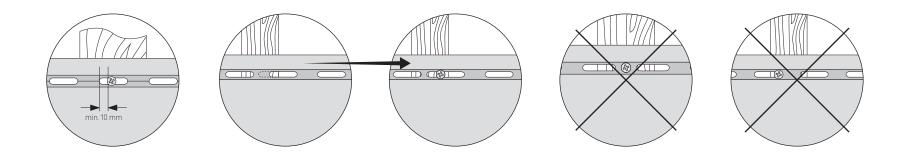


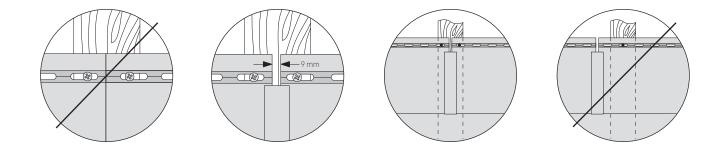
TRIMS AND ACCESSORIES



PRINCIPLES OF POSITIONING THE SCREWS IN THE FIXING HOLES

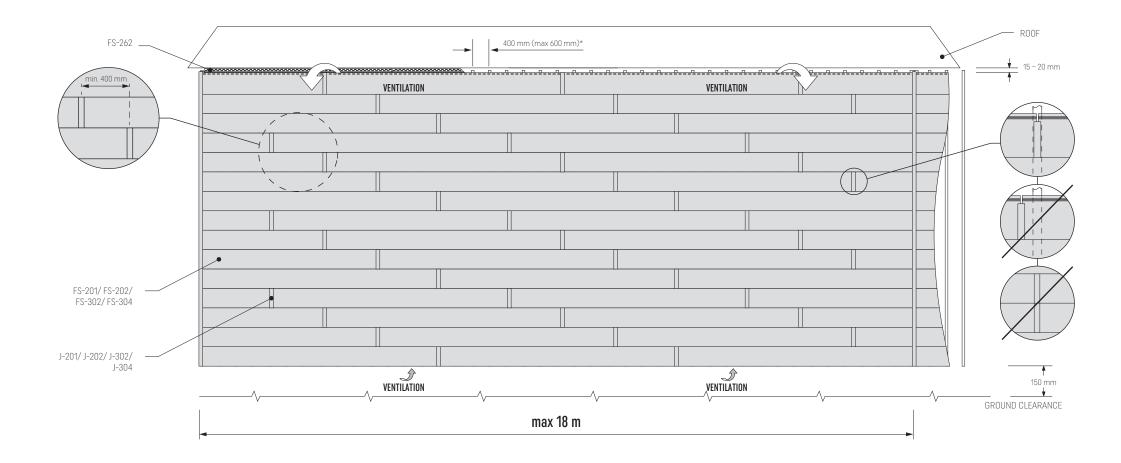






HORIZONTAL INSTALLATION - GENERAL RULES

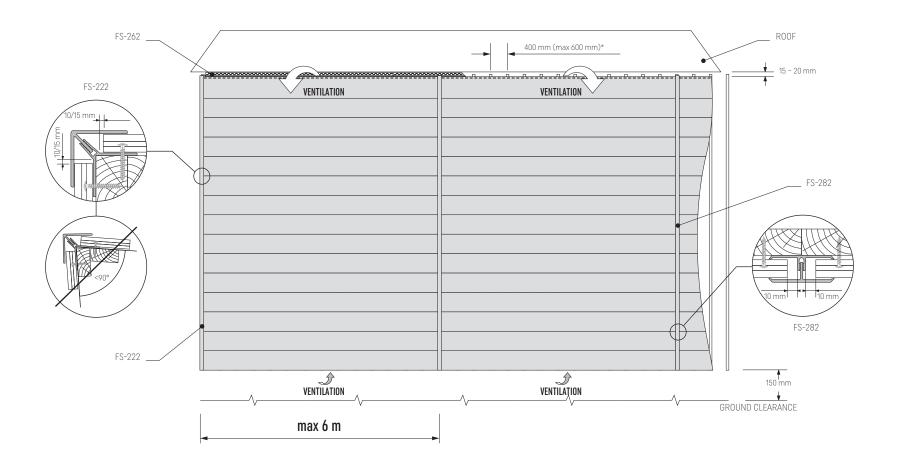
Pic. 5. Rules for joining the cladding profiles (FS-201 / FS-202 /FS-302 / FS-304) with (J-201/ J-202/ J-302 / J-304) joint covers



* see page 6

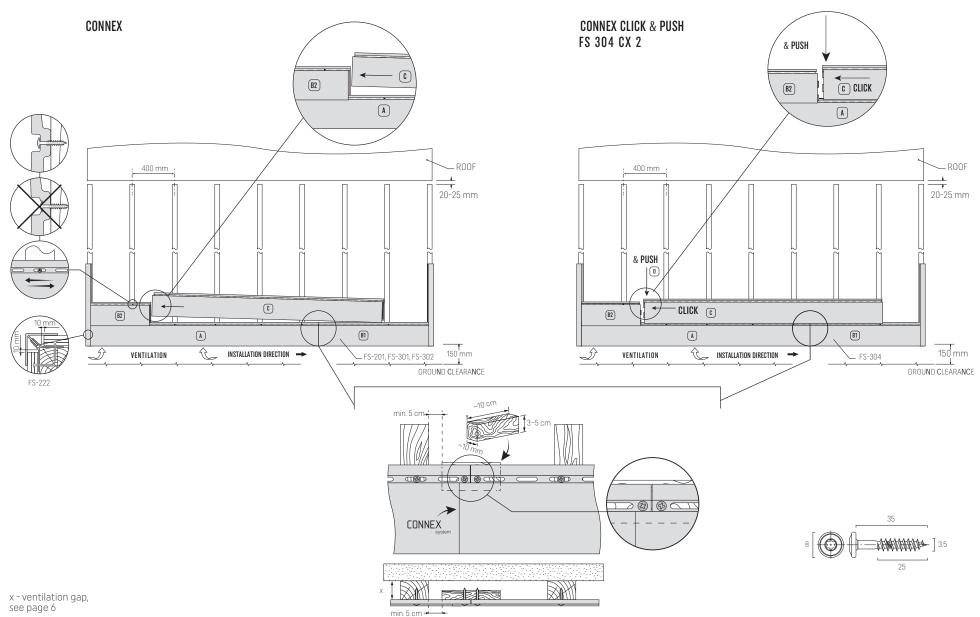
HORIZONTAL INSTALLATION - GENERAL RULES

Pic. 6. Joining the cladding profiles (FS-201/ FS-202/ FS-301/ FS-302/ FS-304) with FS-282 trim



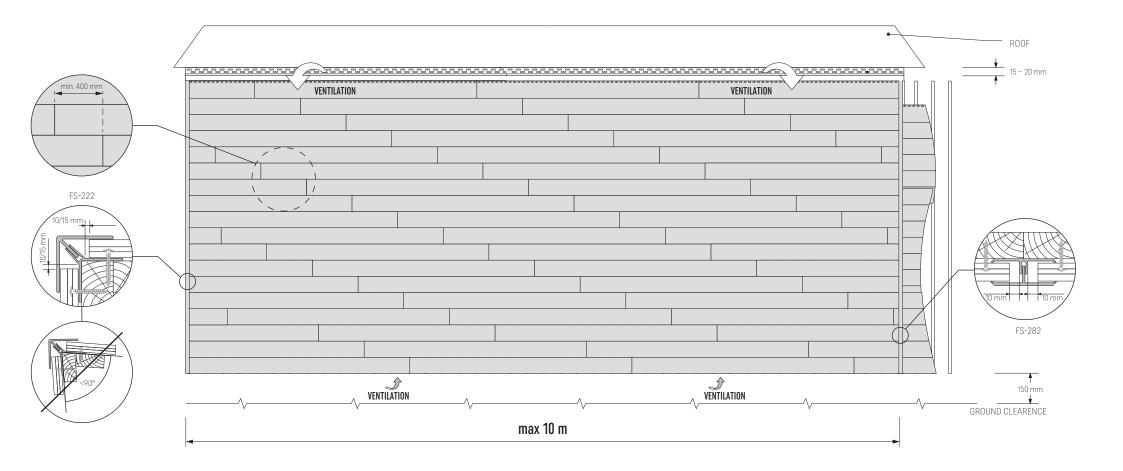
HORIZONTAL INSTALLATION - SYSTEM CONNEX

Pic. 7. Rules for joining the cladding profiles (FS-201/ FS-301/ FS-302/ FS-304) - System CONNEX, 2,95 ml

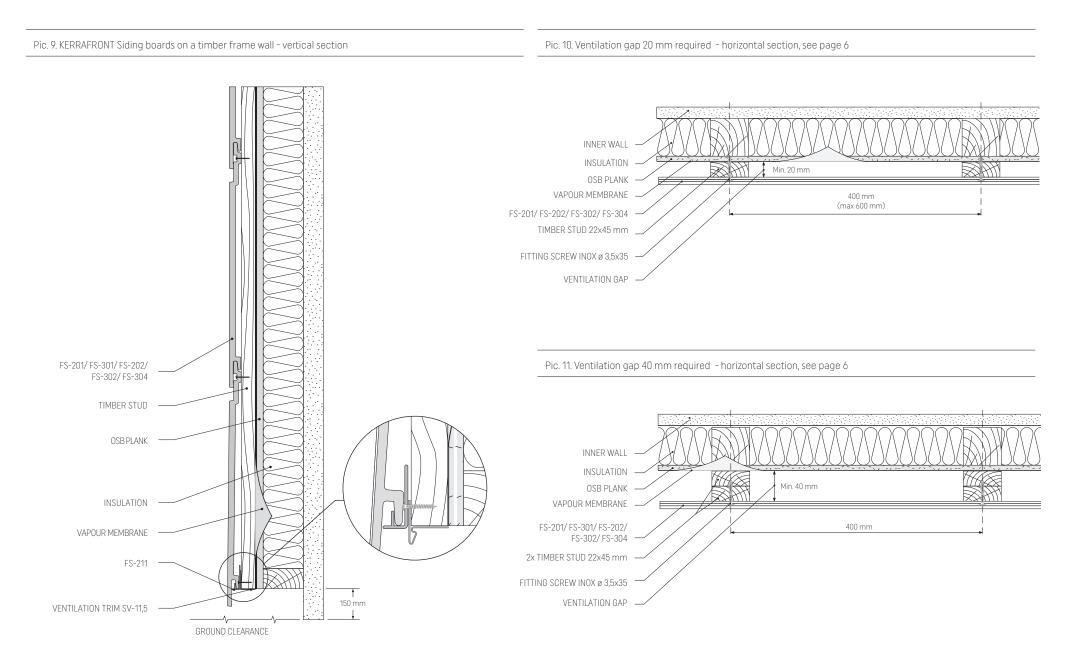


HORIZONTAL INSTALLATION - SYSTEM CONNEX

Pic. 8. Rules for joining the cladding profiles (FS-201/ FS-301/ FS-202/ FS-302/ FS-304) - system CONNEX 2,95 ml

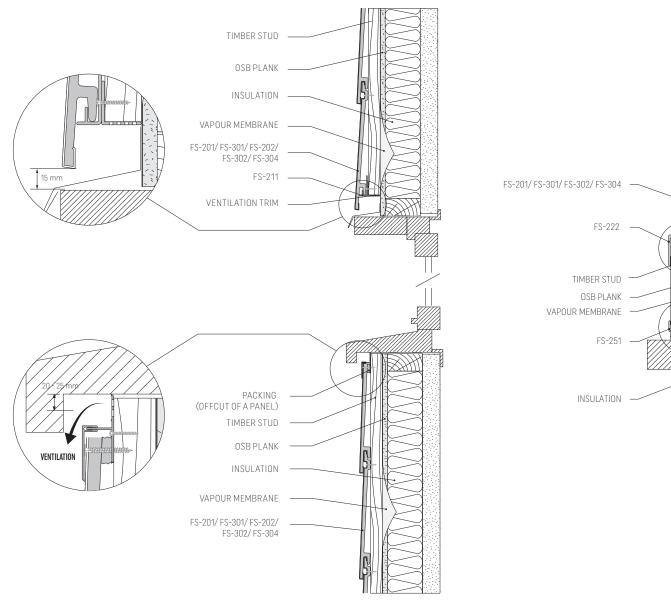


HORIZONTAL INSTALLATION ON A TIMBER FRAME WALL

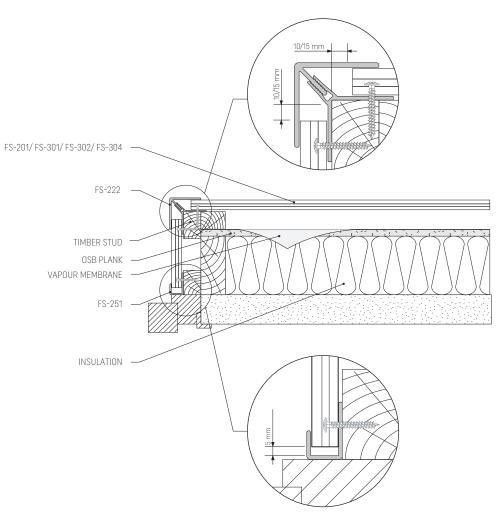


INSTALLATION AROUND WINDOWS, TIMBER FRAME WALL

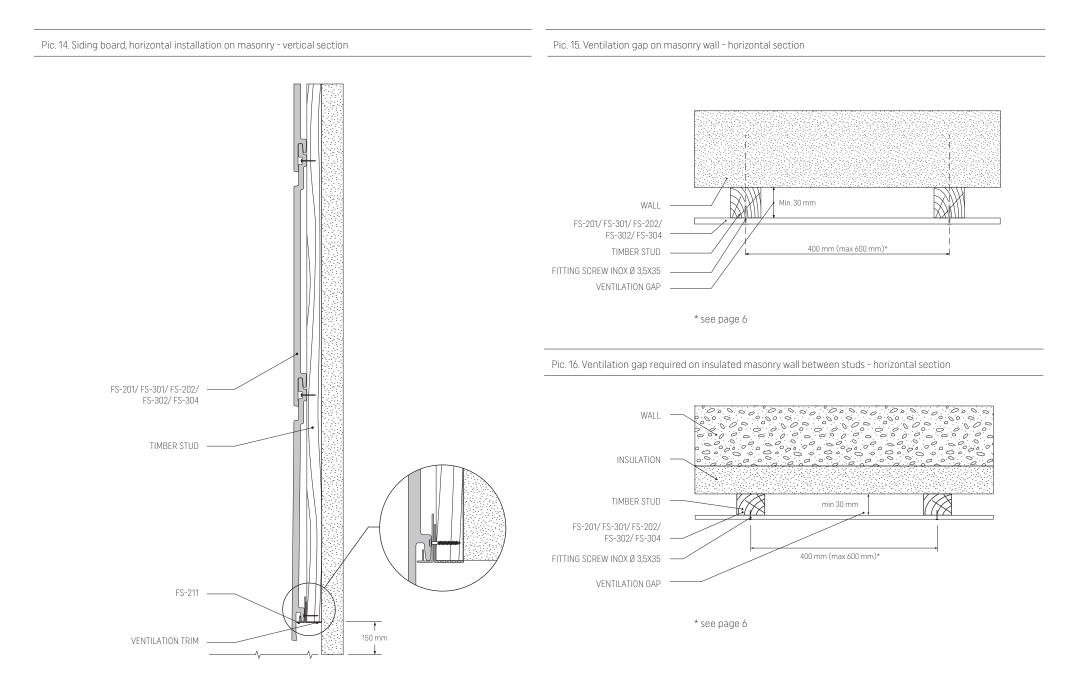
Pic. 12. KERRAFRONT Joinery detail on a timber frame wall - vertical section



Pic. 13. KERRAFRONT Joinery corner detail on a timber frame wall - horizontal section



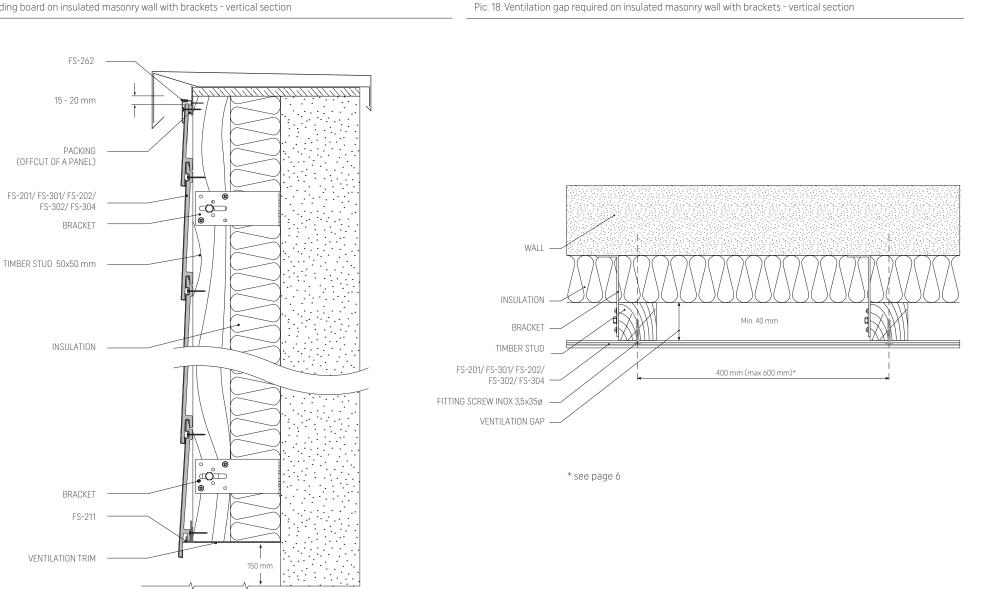
HORIZONTAL INSTALLATION ON MASONRY



INSTALLATION ON MASONRY WALL WITH METAL BRACKETS

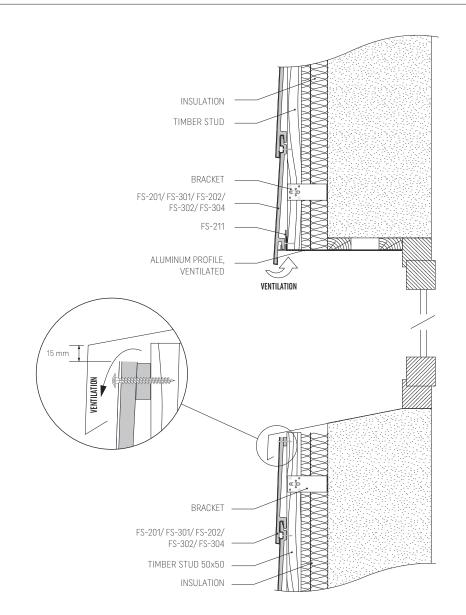
GROUND CLEARANCE

Pic. 17. Siding board on insulated masonry wall with brackets - vertical section

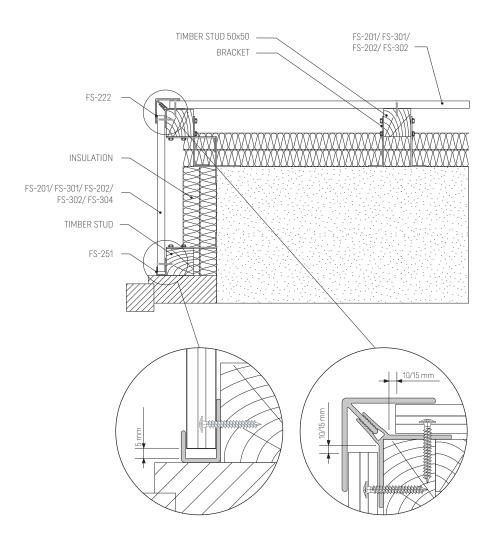


INSTALLATION AROUND WINDOWS WITH METAL BRACKETS

Pic. 19. Joinery detail on insulated masonry wall - vertical section

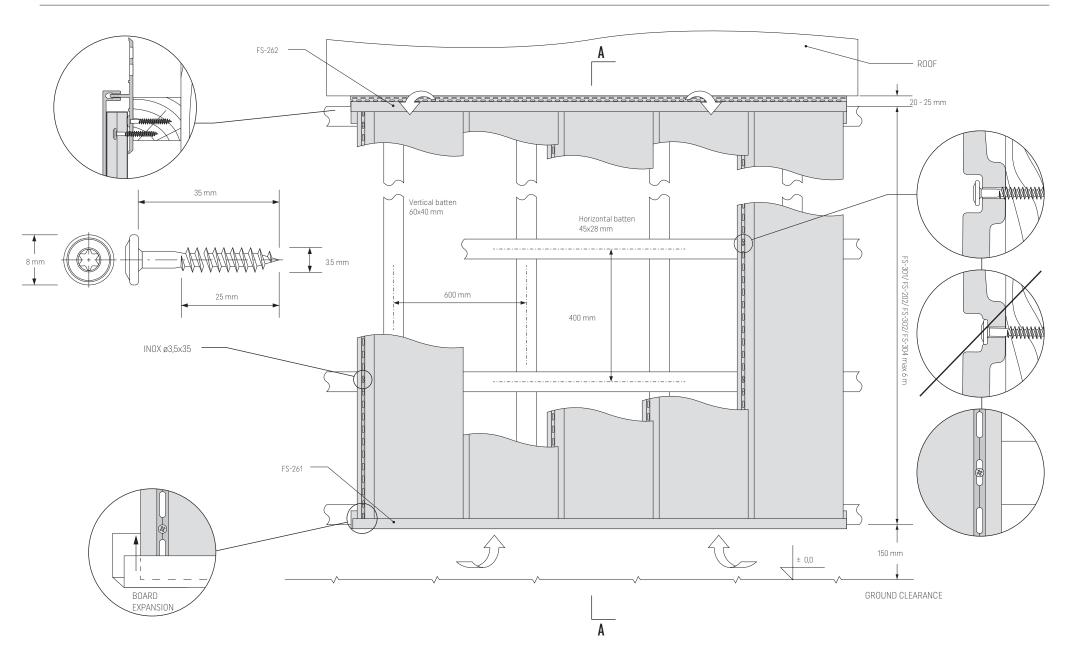


Pic. 20. Joinery corner detail on insulated masonry wall - horizontal section



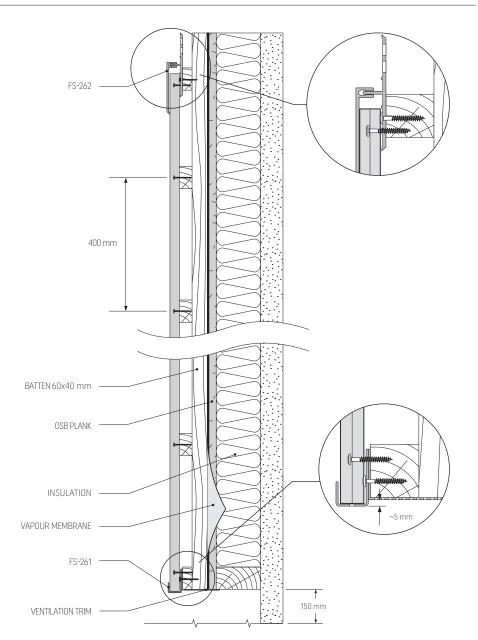
VERTICAL INSTALLATION FS-301/ FS-202/ FS-302/ FS-304

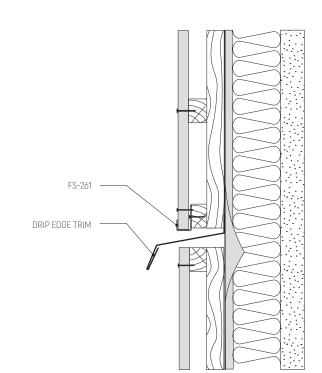
Pic. 21. KERRAFRONT Single board FS-301/ double board FS-202/ FS-302 / fourfold board FS-304

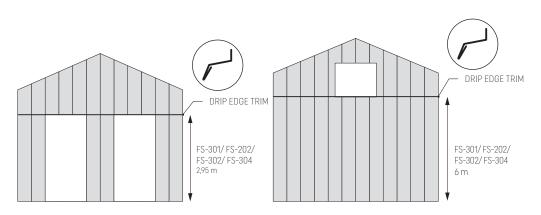


VERTICAL INSTALLATION FS-301/ FS-202/ FS-302/ FS-304, DRIP EDGE TRIM

Pic. 22. Single board FS-301/ double board FS-202/ 302/ fourfold board FS-304, A-A section





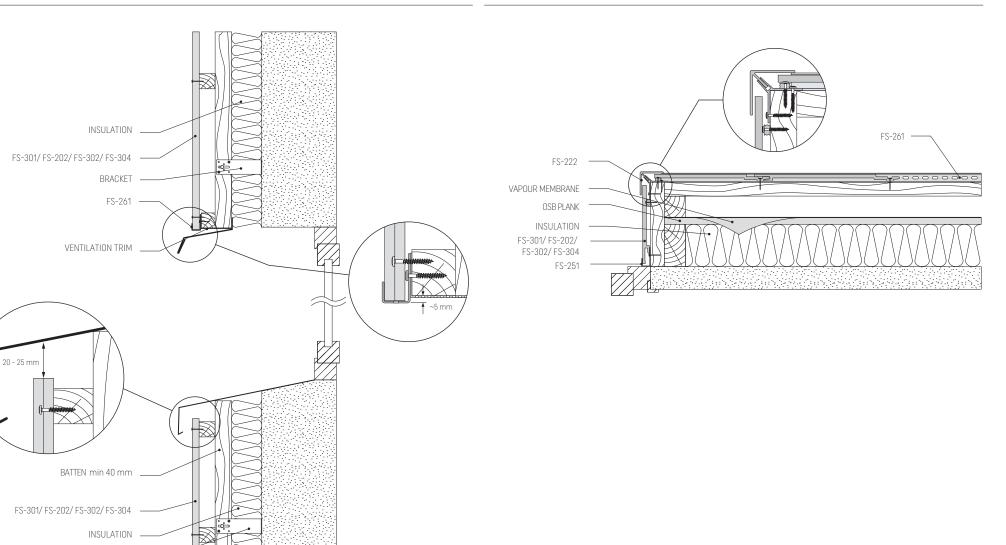


Pic. 23. Drip edge trim, detail

VERTICAL INSTALLATION FS-301/ FS-202/ FS-302/ FS-304

Pic. 24. Joinery detail on insulated masonry wall - vertical section

INSULATION BRACKET _



Pic. Joinery corner detail on insulated masonry wall - horizontal section

KERRAFRONT

TECHNICAL DATA SHEET

TYPE OF THE BOARD/ COLLECTION	ТҮРЕ	FINISH	MATERIAL - CORE	TOTAL WIDTH	COVERING WIDTH	LENGTH	TOTAL WIDTH	THICKNESS (THINNEST POINT)	THICKNESS (THICKEST POINT)
Fourfold board MODERN WOOD, WOOD EFFECT	FS-304 Fourfold board	Embossed woodgrain MODERN WOOD (7 colours): White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG), Quartz Grey (QG), Antharcite (AN) Foiled WOOD EFFECT FOLIED (4 colours): Malt Oak (MO), Alpine Oak (AL), Concrete Oak (CO), Caramel Oak (CAO)	Foamed closed -cell PVC (PVC-UE) Foiled foamed closed-cell PVC (PVC-UE)	372 mm	332 mm	MODERN WOOD FS-304, lenght 6000 mm MODERN WOOD FS-304 CONNEX, lenght 2950 mm WOOD EFFECT FS-304, lenght 6000 mm WOOD EFFECT FS-304 CONNEX, lenght 2950 mm	Average weight per m²: 4,95 kg	4,0 mm by bottom lock	18 mm
Double board MODERN WOOD, WOOD EFFECT	FS-302 Double board	Embossed woodgrain MODERN WOOD (7 colours): White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG), Quartz Grey (QG), Antharcite (AN)	Foamed closed -cell PVC (PVC-UE)	372 mm	332 mm	MODERN WOOD FS-302, lenght 6000mm MODERN WOOD FS-302 CONNEX, lenght 2950mm	Average weight perm²: 4,84 kg	6,5 mm	18 mm
Double board CLASSIC RETRO RUSTIC	FS-202 Double board	Embossed woodgrain CLASSIC (9 colours): White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG), Grey (GR), Quartz Grey (QG), Ollive (OL), Antharcite (AN) RETRO (4 colours): Cream (CR), Beige (BE), Sand (SA), Blue (BL) RUSTIC (3 colours): Tawny (TA), Aqua Blue (AB), Sky Grey (SKG)	Foamed closed -cell PVC (PVC-UE) Foamed closed -cell PVC (PVC-UE COLORBLEND)	371 mm	332 mm	CLASSIC FS-202, lenght 6000 mm RETRO FS-202, lenght 6000 mm RETRO FS-202 CONNEX lenght 2950 mm	Average weight per m²: 4,31 kg	6,5 mm	18 mm

KERRAFRONT

TECHNICAL DATA SHEET

TYPE OF THE BOARD/ COLLECTION	ТҮРЕ	FINISH	MATERIAL - CORE	TOTAL WIDTH	COVERING WIDTH	LENGTH	TOTAL WIDTH	THICKNESS (THINNEST POINT)	THICKNESS (THICKEST POINT)
Single board CLASSIC WOOD DESIGN RUSTIC WOOD EFFECT	FS-201 Single board	Embossed woodgrain CLASSIC (9 colours): White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG), Grey (GR), Quartz Grey (QG), Ollive (OL), Antharcite (AN) WOOD DESIGN (3 colours): Graphite (GP), Silvery Grey (SG), Golden Oak (GO) RUSTIC (3 colours): Tawny (TA), Aqua Blue (AB), Sky Grey (SKG) Foiled WOOD EFFECT FOILED (4 colours): Malt Oak (MO), Alpine Oak (AL), Concrete Oak (CO), Caramel Oak (CAO)	Foamed closed -cell PVC (PVC-UE) Foamed closed -cell PVC (PVC -UE COLORBLEND) Foiled foamed closed-cell PVC (PVC-UE)	219 mm	180 mm	CLASSIC FS-201, lenght 6000 mm CLASSIC FS-201 CONNEX, lenght 2950 mm W00D DESIGN FS-201, lenght 6000 mm W00D DESIGN FS-201 CONNEX, lenght 2950 mm RUSTIC FS-201, lenght 6000 mm RUSTIC FS-201 CONNEX, lenght 2950 mm	Average weight per m²: 4,56 kg	6,5 mm	18 mm
Single board TREND	FS-301 Single board	Single-color version with delicate structure (SOFT) and version with printed stone drawing (STONE) TREND (8 colours): Ivory (IV), Ivory Stone (IVS), Mastic (MA), Mastic Stone (MAS), Pearl Grey (PG), Pearl Grey Stone (GPS), Anthracite (AN), Anthracite Stone (ANS)	Foamed closed -cell PVC (PVC-UE)	359 mm	320 mm	TREND FS-301 CONNEX, lenght 2950mm dimension tolerance: 2950mm + 9mm max	Average weight per m² : 5,29 kg	9 mm	18 mm