

KERRAFRONT. CELLULAR CLADDING
INSTRUCTION FOR INSTALLATION AND USE

## SUMMARY

Installation - general rules ..... 4
Cladding boards - detailed description ..... 5
Summary of the rules for implementation ..... 6
Ventilation ..... 7
Dilatation ..... 8
FS-201/ FS-202/ FS-302/ FS-304 Horizontal installation - general rules - ventilation gap $=20 \mathrm{~mm}$ ..... 9
FS-201/ FS-301/ FS-202/ FS-302/ FS-304 Horizontal installation - general rules - ventilation gap $=40 \mathrm{~mm}$ ..... 10
Trims and accessories ..... 11
Principles of positioning the screws in the fixing holes ..... 12
Horizontal installation - general rules ..... 13
Horizontal installation - system CONNEX ..... 15
Horizontal installation on a timber frame wall ..... 17
Horizontal installation on masonry ..... 19
Installation on masonry wall with metal brackets ..... 20
Vertical installation FS-301/ FS-202/ FS-302/ FS-304 ..... 22
Technical data sheet ..... 25

## INSTALLATION - GENERAL RULES

## 1. GENERAL RULES

## 11. 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.

## .4. Installation temperature

The installation should be carried out at ambient temperatures of between $5^{\circ} \mathrm{C}$ a $30^{\circ} \mathrm{C}$. 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 (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 $\left(25-30^{\circ} \mathrm{C}\right)$ the clearance should be reduced to ca. 3-4 mm . Bear in mind that with every $10^{\circ} \mathrm{C}$ of temperature change, total profile length may expand/contract by approx.


## 0.7 mm per each meter of length.

## .6. Ventilation

Keep ventilation gap behind the cladding panels as specified below (see page 6, 7).

### 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.
1.9. 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 supportng 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
ATTENTION! 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 $40^{\circ} \mathrm{C}$, 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 $40^{\circ} \mathrm{C}$. Do not use solvents or similar aggressive and caustic fluids. Wash the surface with clean water after cleaning.

## CLADDING BOARDS - DETAILED DESCRIPTION

| FS-302 | FS-202 | FS-201 | FS-301 | FS-304 |
| :---: | :---: | :---: | :---: | :---: |
| Double board: 6m, 2,95m CONNEX | Double board: 6 m | Single board: 6m, 2,95 m CONNEX | Single board: $6 \mathrm{~m}, ~ 2,95 \mathrm{~m}$ CONNEX | Fourfold board: 6m, 2,95 m CONNEX |
| Covering width: 332 mm Installation: horizontal/ vertical | Covering width: 332 mm Installation: horizontal/ vertical | Covering width: 180 mm Installation: horizontal | Covering width: 320 mm Installation: horizontal/ vertical | Covering width: 332 mm Installation: horizontal/ vertical |



## SUMMARY OF THE RULES FOR IMPLEMENTATION

| COLLECTION | TYPE OF THE BOARD | TYPE/ LENGHT | COLOUR | VENTILATION | SPACE BETWEEN THE BATTENS |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MODERN WOOD | Double board | FS-302 6 m | White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG) Quartz Grey (QG), Antharcite (AN) | $\begin{gathered} 2 \mathrm{~cm} \\ -7 \mathrm{~cm} \end{gathered}$ | $\begin{aligned} & 40 \mathrm{~cm}(60 \mathrm{~cm} \text { possible) } \\ & 40 \mathrm{~cm} \end{aligned}$ |
|  |  | FS-302 CONNEX 2,95 m | White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG) Quartz Grey (QG), Antharcite (AN) | $\begin{aligned} & 2 \mathrm{~cm} \\ & -\mathrm{cm} \\ & 4 \mathrm{~cm} \end{aligned}$ | 40 cm |
|  | Fourfold board | FS-304 6 m | White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG) Quartz Grey (QG), Antharcite (AN) | $\begin{aligned} & 2 \mathrm{~cm} \\ & \mathbf{4 c m} \\ & \hline \end{aligned}$ | $40 \mathrm{~cm}(60 \mathrm{~cm}$ possible) $40 \mathrm{~cm}$ |
|  |  | FS-304 CONNEX 2,95 m | White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG) Quartz Grey (QG), Antharcite (AN) | $\begin{aligned} & 2 \mathrm{~cm} \\ & \ldots \mathrm{~cm} \\ & 4 \mathrm{~cm} \\ & \hline \end{aligned}$ | 40 cm |
| TREND | Single board | FS-3016 m | Ivory (IV), Ivory 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 |  |  |  |
| CLASSIC | Single board | FS-2016 m | White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG) Grey (GR), Quartz Grey (QG), Ollive (OL), Antharcite (AN) | $\begin{gathered} 2 \mathrm{~cm} \\ -\ldots . . \\ 4 \mathrm{~cm} \end{gathered}$ |  |
|  |  | FS-201 CONNEX 2,96 m | White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG) Grey (GR), Quartz Grey (QG), Ollive (OL), Antharcite (AN) | $\begin{aligned} & 2 \mathrm{~cm} \\ & -4 \mathrm{~cm} \end{aligned}$ | 40 cm |
|  | Double board | FS-202 6 m | $\begin{aligned} & \text { White (WH), Cream (CR), Beige (BE), Claystone (CS), Light Grey (LG) } \\ & \text { Grey (GR), Quartz Grey (QG), O................................................ } \end{aligned}$ | $\begin{gathered} 2 \mathrm{~cm} \\ \cdots \cdots \\ 4 \mathrm{~cm} \end{gathered}$ | $\begin{aligned} & 40 \mathrm{~cm} \text { ( } 60 \mathrm{~cm} \text { possible) } \\ & 40 \mathrm{~cm} \end{aligned}$ |
| RETRO | Double board | FS-202 6 m | Cream (CR), Beige (BE), Sand (SA) Blue (BL) | $\begin{gathered} 2 \mathrm{~cm} \\ \cdots \mathrm{~cm} \\ \hline 4 \end{gathered}$ | 40 cm (60 cm possible) <br> 40 cm |
| RUSTIC | Single board | FS-2016 m | Tawny (TA) | 4 cm | 40 cm |
|  |  | FS-201 CONNEX 2,95 m |  |  |  |
|  | Double board | FS-2026 m |  |  |  |
|  |  | FS-202 CONNEX 2,95 m |  |  |  |
| WOOD DESIGN | Single board | FS-2016 m | Golden Oak (GO), Silvergrey (SG), Graphite (GP) | 4 cm | 40 cm |
|  |  | FS-201 CONNEX 2,95 m |  |  |  |
| WOOD EFFECT | Double board | FS-3026 m | Light Larch (LL), Red Cedar (RC), Teak (TE), Dark Grey Pine (DGP) Light Gray Pine (LGP), Northern Fir Taupe (NFT) | 4 cm | 40 cm |
|  |  | FS-302 CONNEX 2,95 m |  |  |  |
|  | Fourfold board | FS-304 6 m | Douglas (DO), Red Cedar (RC), Teak (TE), Dark Grey Pine (DGP), Light Gray Pine (LGP), Northern Fir Taupe (NFT), Malt Oak (MO), Concrete Oak (CO), Alpine Oak (AO) |  |  |
|  |  | FS-304 CONNEX $2,95 \mathrm{~m}$ |  |  |  |
|  | Single board | FS-2016 m | Malt Oak (MO), Concrete Oak (CO), Alpine Oak (A0) |  |  |
|  |  | FS-201 CONNEX 2,95 m |  |  |  |

## $\triangle$ ventration



## $\triangle$ dlatation

Proper allowance for expansion is made by:
keeping sufficient expansion gaps at each board end
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

(1) Universal corner FS-222

Universal corner FS-222


Finishing trim FS-252



4 Joint cover J-201/ J-202/ J-302/ J-304


## 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:
timber frame wall: thickness 22 mm

- masonry (external insulation): thickness minimum 30 mm .



## FS-201/ FS-301/ FS-202/ FS-302/ FS-304-6 M 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



## 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



## HORIZONTAL INSTALLATION - SYSTEM CONNEX

Pic. 7. Rules for joining the cladding profiles (FS-201/ FS-301 / FS-302 / FS-304) - system CONNEX


## HORIZONTAL INSTALLATION - SYSTEM CONNEX

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


## HORIZONTAL INSTALLATION ON A TIMBER FRAME WALL

Pic. 9. KERRAFRONT Siding boards on a timber frame wall - vertical section



Pic. 11. Ventilation gap 40 mm required - horizontal section, see page 6


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

Pic. 14. Single board/ double board/ fourfold board, horizontal installation on masonry - vertical section



Pic. 16. Ventilation gap required on insulated masonry wall between studs - horizontal section


## INSTALLATION ON MASONRY WALL WITH METAL BRACKETS

Pic. 17. Single board/ double board/ fourfold 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


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



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

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


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


## KERRAFRONT

## TECHNICAL DATA SHEET

| TYPE OF THE BOARD/ COLLECTION | TYPE | FINISH | $\begin{aligned} & \text { MATERIAL } \\ & \text { - CORE } \end{aligned}$ | TOTAL WIDTH | COVERING WIDTH | LENGTH | TOTAL WIDTH | THICKNESS (THINNEST POINT) | THICKNESS (THICKEST POINT) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fourfold board MODERN WOOD, WOOD EFFECT | FS-304 <br> Fourfold board | Embossed woodgrain <br> MODERN WOOD (7 colours): White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG), Quartz Grey (QG), Antharcite (AN) <br> Embossed woodgrain + print <br> WOOD EFFECT (6 colours): Red Cedar (RC), Dark Teak (DT), Dark Grey Pine (DGP), Light Gray Pine (LGP), Northern Fir Taupe (NFT), Douglas (DO) <br> Foiled WOOD EFFECT FOLIED (3 colours): Malt Oak (MO), Alpine Oak (AL), Concrete Oak (CO) | Foamed closed -cell PVC <br> (PVC-UE) <br> Foamed closed -cell PVC (WPC) <br> 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 <br> WOOD EFFECT FS-304, lenght 6000 mm WOOD EFFECT FS-304 CONNEX, lenght 2950 mm | Average weight per $\mathrm{m}^{2}: 4,95 \mathrm{~kg}$ | $4,0 \mathrm{~mm}$ by bottom lock | 18 mm |
| Double board MODERN WOOD, WOOD EFFECT | \| FS-302 <br> Double board | Embossed woodgrain <br> MODERN WOOD (7 colours): White (WH), Ivory (IV), Claystone (CS), Beige (BE), Pearl Grey (PG), Quartz Grey (QG), Antharcite (AN) <br> Embossed woodgrain + print <br> WOOD EFFECT (6 colours): Red Cedar (RC), Dark Teak (DT), Dark Grey Pine (DGP), Light Gray Pine (LGP), Northern Fir Taupe (NFT), Douglas (DO) | Foamed closed -cell PVC <br> (PVC-UE) <br> Foamed closed -cell PVC (WPC) | 372 mm | 332 mm | MODERN WOOD FS-302, lenght 6000 mm <br> MODERN WOOD FS-302 CONNEX, lenght 2950 mm | Average weight perm²: $4,84 \mathrm{~kg}$ | 6,5 mm | 18 mm |
| Double board <br> CLASSIC <br> RETRO <br> RUSTIC | FS-202 <br> Double board | Embossed woodgrain <br> 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) <br> RUSTIC (1 colour): Tawny (TA) | Foamed closed -cell PVC <br> (PVC-UE) <br> Foamed closed -cell PVC (PVC-UE COLORBLEND) | 371 mm | 332 mm | CLASSIC FS-202, lenght 6000 mm <br> RETRO FS-202, lenght 6000 mm RETRO FS-202 CONNEX lenght 2950 mm | Average weight per m²: $4,31 \mathrm{~kg}$ | 6,5 mm | 18 mm |

## KERRAFRONT

## TECHNICAL DATA SHEET

| TYPE OF THE BOARD/ COLLECTION | TYPE | FINISH | $\begin{aligned} & \text { MATERIAL } \\ & \text { - CORE } \end{aligned}$ | TOTAL WIDTH | COVERING WIDTH | LENGTH | TOTAL WIDTH | THICKNESS (THINNEST POINT) | THICKNESS (THICKEST POINT) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Single board <br> CLASSIC <br> WOOD DESIGN <br> RUSTIC <br> WOOD EFFECT | FS-201 <br> Single board | Embossed woodgrain <br> 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 (1 colour): Tawny (TA) Foiled WOOD EFFECT FOILED (3 colours): Malt Oak (MO) Alpine Oak (AL), Concrete Oak (CO) | Foamed closed <br> -cell PVC <br> (PVC-UE) <br> Spienione (PVC <br> -UE COLORBLEND) <br> Foiled foamed <br> closed-cell PVC <br> (PVC-UE) | 219 mm | 180 mm | CLASSIC FS-201, lenght 6000 mm CLASSIC FS-201 CONNEX, lenght 2950 mm <br> WOOD DESIGN FS-201, lenght 6000 mm WOOD DESIGN FS-201 CONNEX, lenght 2950 mm <br> RUSTIC FS-201, lenght 6000 mm RUSTIC FS-201 CONNEX, lenght 2950 mm | Average weight per $\mathrm{m}^{2}: 4,56 \mathrm{~kg}$ | $6,5 \mathrm{~mm}$ | 18 mm |
| Single board TREND | FS-301 <br> Single board | Single-color version with delicate structure (SOFT) and version with printed stone drawing (STONE) <br> 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 <br> -cell PVC <br> (PVC-UE) | 359 mm | 320 mm | TREND FS-301 CONNEX lenght 2950 mm dimension tolerance: $2950 \mathrm{~mm}+9 \mathrm{~mm}$ max | Average weight per m${ }^{2}: 5,29 \mathrm{~kg}$ | 9 mm | 18 mm |

