

PLAK*FLAT*
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COLORPLUS

INSTALLATION MANUAL

Product: PLAKFLAT/ PLAKFLAT COLORPLUS- FIBERCEMENT SHEETS FOR FACADE CLADDING

Dimensions (mm) (Thickness x Width x Length)	Unit weight (kg)	Surface weight (kg/ m2)	Color	Dimensions (m2)
8x1200x2400	29,95	10,40	All colours available in the catalogue.	2,88
8X1200X2400*	40,32	14,00		2,88
8X1200X3000*	50,40	14,00		3,60
10x1200x2400	37,44	13,00		2,88
12x1200x2400	44,93	15,60		2,88
16x1200x2400	55,90	20,80		2,88
18x1200x2400	67,39	23,40		2,88
20x1200x2400	74,88	26,00		2,88

*Colorplus range

INSTALLATION: PLAKFLAT AND PLAKFLAT COLORPLUS

1. Technical Data

Standards properties		Units of Measurement		Standard Test
Physical properties				
Tolerance	Thickness	mm.	± 0.2	EN 12467:2021
	Width	mm.	± 3.0	
	Length	mm.	± 3.0	
	Squareness	mm./ m.	≤ 2.6	
Density		Kg/m ³	1,750 ± 50	EN 12467:2021
Longitudinal modulus of rupture		MPa	≥ 23	EN 12467:2021
Trasversal modulus of rupture		MPa	≥ 18	EN 12467:2021
Longitudinal modulus of elasticity		MPa	≥ 14,000	EN 12467:2021
Transversal modulus of elasticity		MPa	≥ 11,000	EN 12467:2021
Humidity		%	≤ 8	EN 12467:2021
Water absorption		%	≤ 20	EN 12467:2021
Water tightness			Compliant	EN 12467:2021

Thermal conductivity (k-index)	Watt/ m. °C		EN 12467:2021
Fire resistance			
Combustion		Non-combustible	EN 12467:2021
Fire resistance		P	EN 12467:2021
Fire spread index		I = 0.2	EN 12467:2021
Surface flame spread		Class 1	EN 12467:2021
Smoke Development Index (SDI)		15	EN 12467:2021
Flame Spread Index (FSI)		0	EN 12467:2021

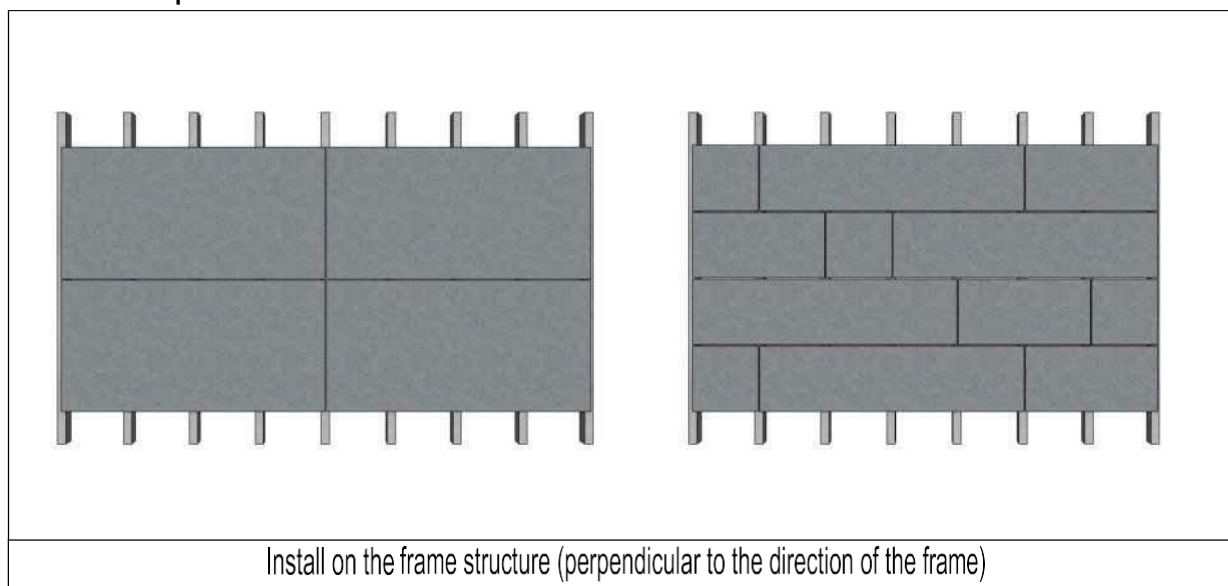
Standard properties	Unit		Standard Test
Durability			
Frost-thaw resistance		Compliant	EN 12467:2021
Hot water resistance		Compliant	EN 12467:2021
Heat-rain cycle		Compliant	EN 12467:2021
Soak - drying resistance		Compliant	EN 12467:2021

2. Employment

Wall area	Layout installation	Laying method
External wall	Horizontal(MD)	Screw fixing on frame ¹
Lateral load ¹ (kg/ sq.m.)	330 (Max.)	

Note1: The wheelbase of the frames must not exceed 0.60 m.

Installation pattern



3. Tools and accessories

3.1 Measurement and tools

			
Measuring tape	Leveling	Plumb & Chord	Guide Lining
			
Cordless Drill 400-1,500 rpm	Portable cutter 4,600 rpm 1,650 Watts	Angle grinder Size 100 mm. 710 Watts 11,000 rpm	Diamond blade diameter 4", 7" and diameter 9"
			
Concrete drill 6 mm diameter.	Concrete drill diameter 4 mm.	Driver Bits Size 65 mm.	

3.2 Accessories

			
Self-drilling screw Wafer head, stainless coated Size 38 mm No. 8	Rivets aluminium coated Dimensions 4x20 mm.	Plastic screw washer (Gliding Point)	Foam tape (with adhesive side) Dimensions 38 mm. Thickness 3.2 mm.
			
Sandpaper No. 100	Water-repellent (Sika 700S)	Water-repellent TOA 213	L- Channel Rainscreen Frame

4. INSTALLATION: PLAKFLAT/PLAKFLAT COLORPLUS - FIBERCEMENT SHEETS FOR FACADE CLADDING

4.1 Frame Installation

Tools and accessories

1. Installed frame (see recommended steel section in the table below for each height range).
2. Concrete anchor $\geq$ dia. 6 mm. (depending on installed height)
3. Steel plate

** It is recommended to install the frame in aluminium or galvanised steel.*

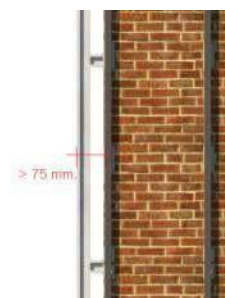


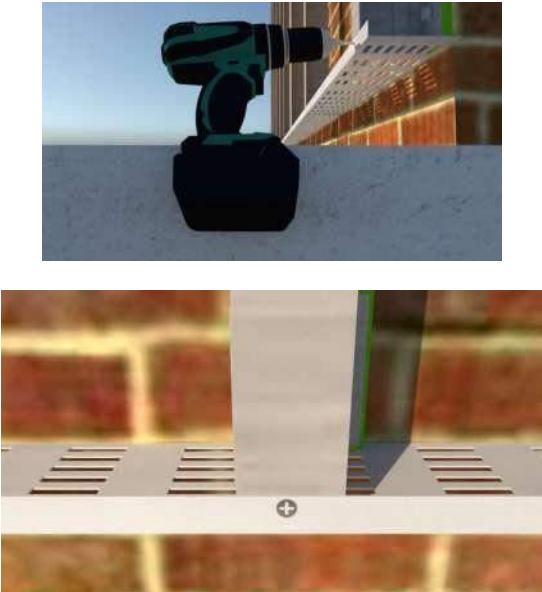
Install the façade frame on the existing wall, with the distance between supports not exceeding 600 mm. (See the recommended steel section in the table below for each height range).



Type 1: steel frame

1. Install the plate on the existing wall and fix it with a concrete anchor.
2. Install the wall frame on the plate by welding and check the level in horizontal and vertical lines.
3. Leave a space between the existing wall and the frame at least 75mm.



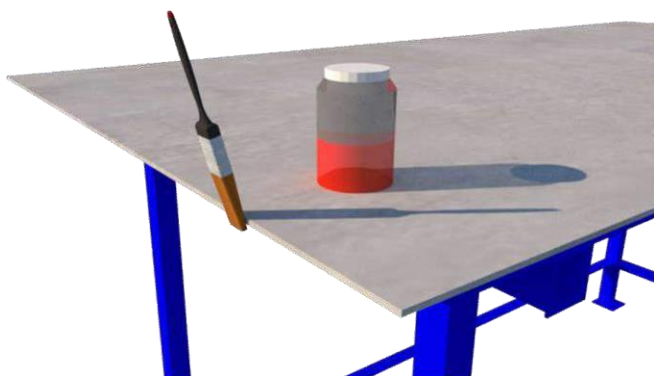
	Install the L-shaped rainscreen element on the facade frame along the installation direction and fix it with 25 mm self-drilling screws.
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4.2 PLAKFLAT/PLAKFLAT COLORPLUS sheets preparation

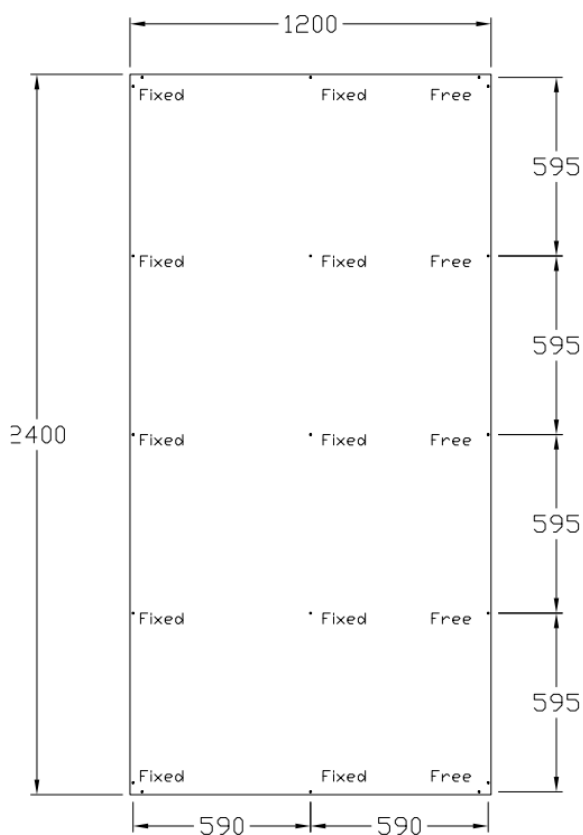
Tools and accessories

1. PLAKFLAT/PLAKFLAT COLOPLUS sheets dimensions 8x1200x2400mm and 8x1200x3000mm
2. Portable diamond blade cutter
3. Sandpaper
4. Water-repellent to prevent moisture absorption in the air
5. Brush or spray painting

	Outline the cutting direction with a pencil or a guide lining. Fix the sheet to the work surface and use the portable cutter to cut along the specified direction. Then use the sandpaper to smooth the cut edges.
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Use a water-repellent coating on the cut side to prevent the sheet from absorbing moisture from the air.



Pre-drilling detail

Pre-drill with concrete drill Ø 10 mm. in the indicated positions.

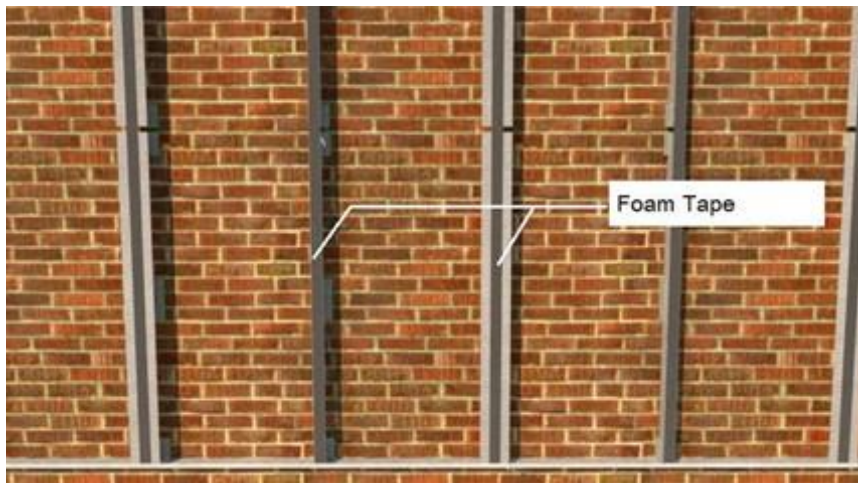
FIXED= Use plastic washer

FREE = Do not use plastic washer

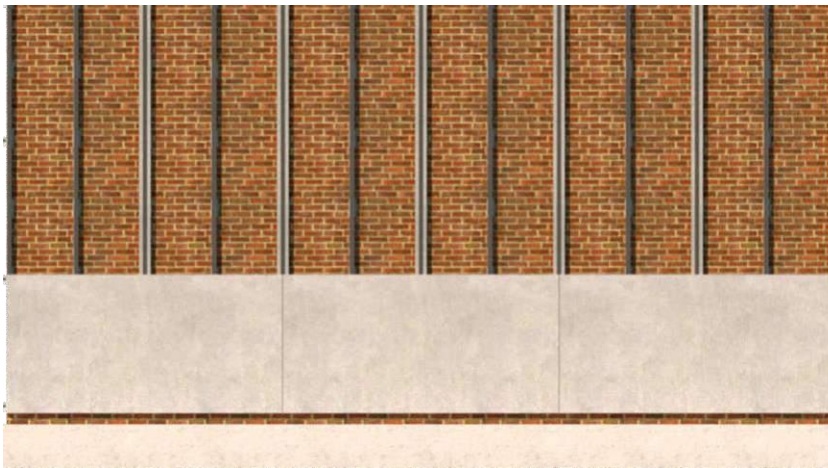
4.3 PLAKFLAT/PLAKFLAT COLORPLUS sheet installation (fixing method (screw/rivet))

Tools and accessories

1. PLAKFLAT/PLAKFLAT COLOPLUS sheet dimensions 8x1200x2400mm and 8x1200x3000mm.
2. Self-drilling screw with wafer head No. 25 mm.
3. or rivet size 4x20mm.
4. Plastic washer
5. Foam tape (with adhesive side)



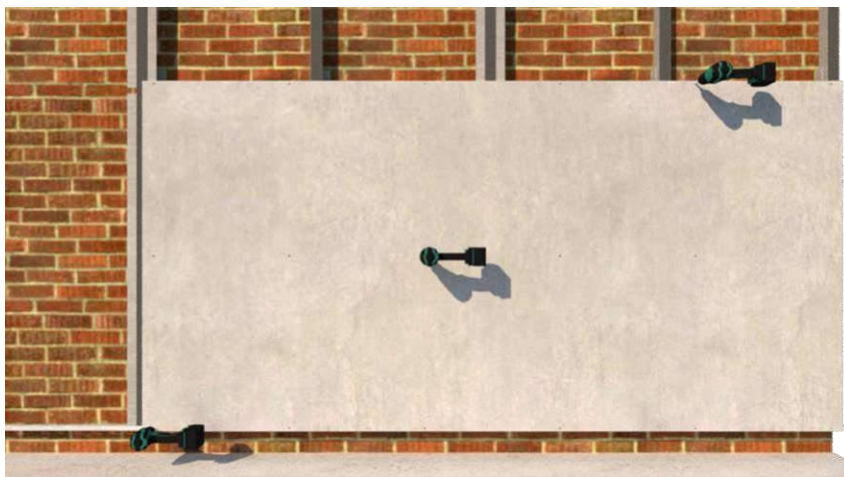
Install foam tape (with adhesive side) to prevent oxidation between the sheets and the frame.

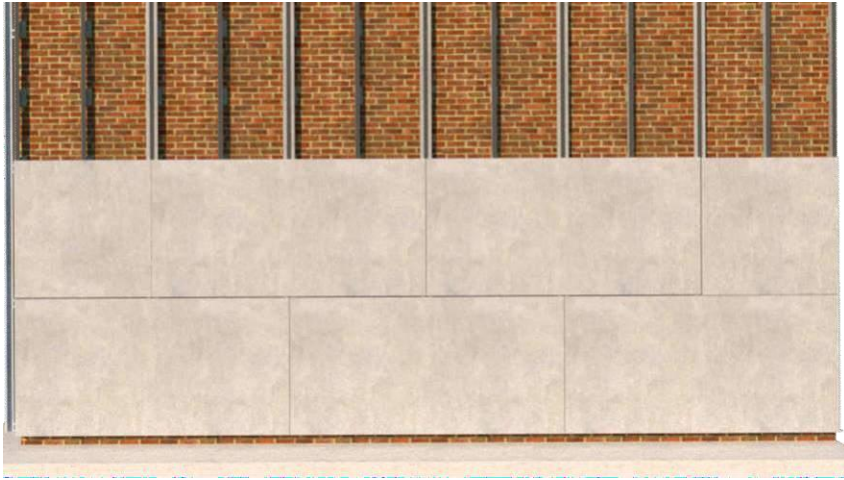
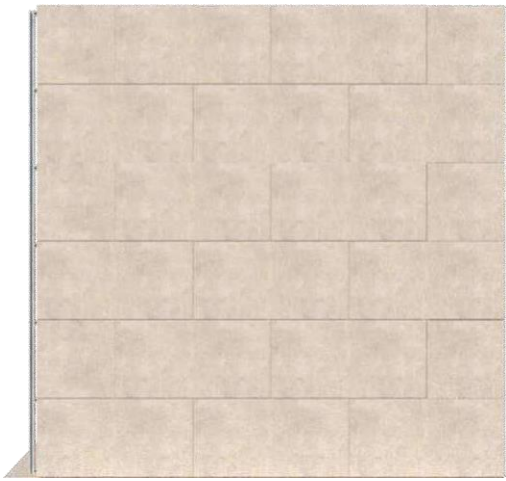


Fix the PLAKFLAT or PLAKFLAT COLORPLUS sheet on the previously installed frame, using 38mm self-drilling screws or 4x20 mm rivets to fix the sheet to the frame.

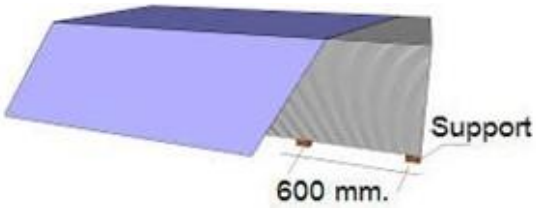


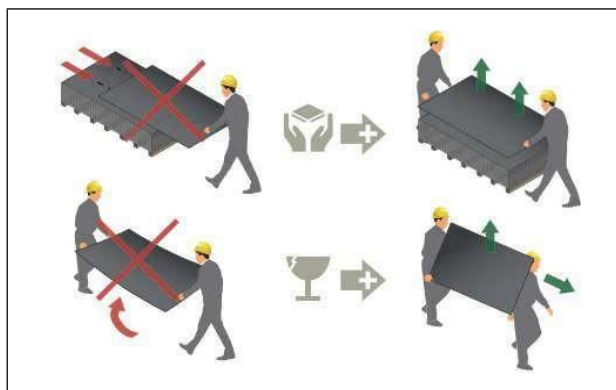
Fix the sheet with
self- drilling screws
or rivets.



	Install and fix all sheets using the same procedure.
	Result of facade cladding with PLAKFLAT or PLAKFLAT COLORPLUS flat sheets.

5. HANDLING AND STORAGE

	Storage - Store the sheets in a dry area and cover them with canvas, use 1.5 x 3 timber as support at a distance of 600 mm from the ground.
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Handling:

- Do not pull and drag the sheet on the pallet to avoid scratching the surface.
- Hold the sheet at 300mm from the end in a vertical direction, as shown in the picture.