

SVK FACADE PANELS TECHNICAL PRODUCT FICHE

PURO PLUS

1. PRODUCTION

Puro Plus panels are manufactured from a homogeneous mixture of Portland cement, selected reinforcement fibres, additives and water. This mixture is transmitted in thin layers under constant pressure to a format roller by means of a sieve cylinder machine (Hatschek) until the required panel thickness is obtained. The panels are double pressed and harden at least 4 weeks under normal atmospheric conditions. Subsequently they are extra dried to minimize the dimensional movements.

2. FINISHING

The Puro Plus panels are natural grey, calibrated and lightly sanded panels which know all the advantages of fibre cement. They combine a ventilated façade cladding with the industrial appearance of cementitious panels. During the sanding a discrete line-pattern is formed. Sanding makes the panels directional. The direction is noted by the direction of the production stamp on the back side and the arrows on the protective foil on the front side of the panels. The panels are untreated, they show the honest and natural appearance of fibre cement and are characterised by their natural ageing.

Because differences in colour nuances are possible, we suggest to order the panels for a continuous façade in one time, such to minimize the differences. Even so uniformity of the colour cannot be guaranteed.

Under certain circumstances efflorescence might occur, also the presence of small variations (inclusions) in the panel surface belongs to the normal aspect of the panel and cannot be considered as a shortcoming.

With time these effects will largely even out by patination.

3. GAMMA



4. DIMENSIONS AND TOLERANCES

Puro Plus panels are delivered squared or non-squared. Non-squared panels must be squared before installation.

The squared panels meet the requirements of **Tolerance Level I** as per norm EN 12467. For Tolerance Level II (non-squared) see norm EN 12467.

Dimensions	Squared	Non-squared
Standard formats	3.070 x 1.220 mm	3.085 x 1.235 mm
	2.520 x 1.220 mm	2.535 x 1.235 mm
Thickness	8 mm	8 mm

Tolerances Puro Plus	Squared
Length	± 1,5 mm
Width	± 1,5 mm
Straightness	0,1 %
Squareness	2 mm/m
Thickness	± 10 % e

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5. TECHNICAL CHARACTERISTICS

Puro Plus panels comply with the prescriptions of European standard EN 12467 “Fibre-cement flat panels – Product specification and test methods”.

Physical characteristics		Norm
Density – oven dry	$\geq 1.700 \text{ kg/m}^3$	EN 12467
Bending strength	Class 4 ($\geq 18 \text{ MPa}$)	EN 12467
Modulus of Elasticity (wet)	14.000 MPa	EN 12467
Moisture movement (30-90 %) \perp	1,2 mm/m	EN 12467
Moisture movement (30-90 %) //	1,0 mm/m	EN 12467
Water impermeability	no water drops	EN 12467

Durability		
Class	A	EN 12467
Resistance to frost	$R_f \geq 0,75$	EN 12467
Resistance to warm water	$R_f \geq 0,75$	EN 12467
Resistance to wet-dry	$R_f \geq 0,75$	EN 12467
Resistance to heat rain	pass	EN 12467

Reaction to fire		
Fire reaction class	A2-s1, d0	EN 13501-1

Weight	$\pm 14,6 \text{ kg/m}^2$
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Weight per panel	
2.535x1.235mm	$\pm 45,71 \text{ kg}$
3.085x1.235mm	$\pm 55,63 \text{ kg}$

6. QUALITY



Produits bardage rapportés
<http://evaluation.cstb.fr>

CSTB
84 avenue Jean Jaurès -
Champs sur Marne
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ETA 14/0284

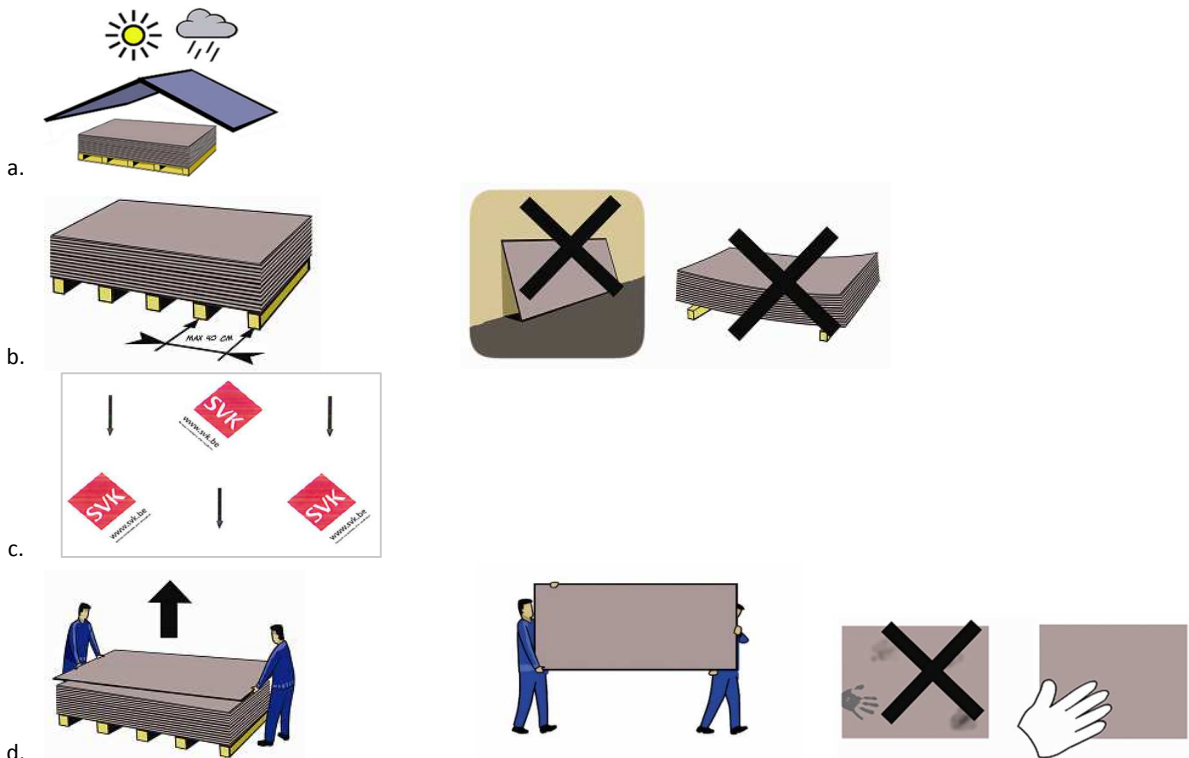


Ornimat, Decoboard, Puro Plus
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7. TRANSPORTATION, STORAGE AND HANDLING

- a. SVK Puro Plus facade panels are **supplied on pallets, wrapped in foil**. This foil does not provide sufficient protection from weather conditions (rain, condensation and bright sunlight). **The panels must be protected until they are installed.**
Respect closely the next prescriptions:
 - SVK Puro Plus facade panels must be transported under a watertight canvas.
 - The panels must be stored indoors.
 - **Also on the construction site the panels must be stored dry.** It is not allowed to store the panels outside, not even under a canvas. Storing panels in humid locations increases the risk of bending of the panel surface.
 - Limit the storage period on site to the time that is needed to execute the work and keep the packaging closed until the moment the panels will be installed.
 - Prevent the panels from becoming wet or dirty due to condensation, water absorption, dust or any other kind of pollution.
 - The standard guarantee is only applicable on panels stored in conformity with these guidelines.
- b. Puro Plus panels are always stored horizontally, on an even and dry subsoil, clear of the ground.
 - Use racks, pallets or supporting laths with a maximal distance of 400mm.
 - The panels must be supported sufficiently so that they cannot deform. Maximum 3 pallets stacked on each other.
- c. SVK protects the finished surface of the Puro Plus panels by placing a protective adhesive foil on the front side of the panel
 - The production direction is shown on the foil.
 - The foil protects the panels against pollution and damage during transport, storage and handling. Despite the protective foil additional care must be taken:
 - Avoid big temperature fluctuations. Especially heat can affect the foil.
 - Limit the storage period.
 - **Remove the protective foil:**
 - For visible fixing systems before the panels are fixed.
 - For invisible fixing systems directly after the panels are placed.
 - If the foil is exposed to the weather conditions (heat, rain, condensation) for a prolonged duration the foil could bubble up with the risk of water/condensation infiltrating between the foil and surface which could lead to stains on the panel surface.
- d. **Be careful** when transporting or handling the panels, in order not to damage the finishing layer.
 - Lift the panels with two people, without dragging them or moving them over the panel below.
 - Carry them in a vertical position.
 - Avoid staining and wear woolen gloves when lifting the panels.
 - Avoid stains of glue, silicone, polyurethane foam as these can leave irremovable stains.
 - Do not stick labels, tape of any type of adhesive tape on the decorative surface of the panels. These can leave glue residue on the panel and could affect the decorative surface.
- e. Whilst transporting and handling Puro Plus facade panels, the legislation related to mobile work equipment for hauling and lifting loads must be respected at all times.



8. SPECIFIC ADVANTAGES OF PURO PLUS

- Resistant to micro-organisms, fungi, microbes, insects etc.
- Non-combustible, limited smoke production.

9. GUARANTEE

SVK provides a guarantee on the Puro Plus panels if the materials are handled according to the best practice of the trade and conform with our given prescriptions regarding storage, handling and cleaning and this is for normal use in a normal atmospherical environment.

Tampering of the Puro Plus panels and fastening of objects on the Puro Plus panels fall beyond the guarantee domain of the panels. Please apply for our specimen guarantee certificate in case you wish to obtain further details.