

Technical Data Sheet

StoDeco Plan

Facade panel made of Verofill granulate



Characteristics

- Application**
- For exterior and interior use
 - For individual design applications
 - Onto all load-bearing, adhesive-suitable substrates

- Properties**
- Low weight
 - Ecologically sound
 - Simple and fast installation
 - Very good application properties
 - Non-combustible (A2,s1,d0) in accordance with EN 13501

- Format**
- 2420 x 1210 mm in thicknesses: 15, 20, 25, 30, 35 and 40 mm
 - 2440 x 1080 mm in thicknesses: 50, 60, 70, 80, 90 and 100 mm

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Criterion	Norm / Test Prescript	Value / unit	Notes
Fire behaviour (class)	EN 13501-1	A2-s1, d0	
Thermal conductivity	DIN 4108	0,18 W/(m*k)	
Apparent density		550 kg/m ³	
Compressive strength (28 days)	DIN EN 196-1	13,5 N/mm ²	
Modulus of elasticity	DIN 1048	1.900 N/mm ²	
Thermally-induced length variation	VIAM 020	0,0000088 1/K	

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended purpose.

Substrate

Requirements The substrate must be level, load-bearing, clean and dry.

Preparation Remove loose paint or plaster remains. Prime absorbent substrates appropriately. Level and smooth damaged areas in the substrate before application of the profiles. Allow new base plasters to bind for at least 14 days.

Application

Application temperature Lowest substrate and air temperature for application: +5 °C

Consumption	Type of application	Consumption approx.
	2420 x 1210 mm	0,34 pcs./m ²

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2440 x 1080 mm

0,38

pcs./m²

The consumption of the material depends on the application method, substrate and consistency, amongst other factors. The stated consumption rate is only to be used as a guide. Where required, precise consumption rates should be established on the respective project.

Coating procedure

Substrate coating:

1x Sto-Primer or 1x StoColor S fine
(yields a rough, sandstone-like surface texture)

1x StoColor Maxicryl (dilute with approx. 10 % water)
(yields a smooth surface texture)

Intermediate coating:
1x StoColor Maxicryl

Top coat:
1x StoColor Maxicryl

Application

Fixing by bonding, additional mechanical fixing at thickness of $D \geq 50$ mm

Fixing:

Fix the profiles to the load bearing substrate (also ventilated rainscreen cladding system, External wall insulation systems) using StoDeco Coll.
Additional mechanical fixing may be required.

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In an initial step the mixed StoDeco Coll will be applied perpendicular onto the profile with a toothed trowel (6 x 6 mm) as full-surface bonding.
In step 2 StoDeco Coll will be applied as well as full-surface bonding, horizontal onto the level substrate with a toothed trowel (floating-buttering method). If necessary, adapt the toothing to the substrate due to unevenness.
Finally, bring the StoDeco Profiles into the desired position with gentle pressure and by sliding (floating) into place. Thereby adhesive must be pressed out of the joints and butt joints. The joints must be closed to each side and the backside of the profile must be bonded full-surface (the required amount of StoDeco Coll must be adjusted to the substrate).
StoDeco Profiles must be bonded wet in wet.

Care should be taken to ensure a surface free of dust and soiling. If required, the profiles / elements should be secured against sliding off. Additional mechanical fixing with StoDeco Screw Dowel LZ 10 for StoDeco Profiles (≥ 5 kg/pcs. and 50 mm projection), StoDeco Customised Profiles and StoDeco Rustications (with a thickness of more than 50 mm)

Generally, the installed façade profiles have no load-bearing capacity for people.

Cutting:

Cut the beads with a mitre box and suitable saw (chopsaw, hand-held circular saw, jigsaw – carbide-tipped). Precisely angled cuts are required. Dust off cut surfaces when done. The profiles must be laid up level when cutting.

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Joint creation:

StoDeco Profiles are butt-jointed. This leaves an adhesive seam with a thickness of approx. 3 mm. Apply StoDeco Coll on both cutting edges. When sliding the StoDeco Profiles together, the adhesive will be pressed out. Allow StoDeco Coll to begin to dry and sand off. Don't use too much water to rework the butt joint. The connection joints must be created as a fillet. An elastic connection must be carried out to other building components and the connection window frame profile to window sill profile with Sto-Joint Sealing Tape and StoSeal F 505.

Fill only the butt-jointed window sill panels with Sto-RFP and Sto-Glass Fibre Mesh.

Installation of StoDeco Rustications:

The elements, which will be butt jointed, must be chamfered on site with an oddment or sanding block. A visible deepening in the butt-joint should be carried out.

The total length for butt-jointed profiles/ elements and window sill panels is 10 m.

Tool cleaning

Clean tools with water immediately after use.

Notes, recommendations, general information, miscellaneous

Physical material characteristics such as thermal alterations in length can cause fine hairline cracks. Constructional joints (e.g. building expansion joints) should be continued.
Observe building physics when applying over large areas.

Delivery

Packaging

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Storage

Storage conditions

Store in dry conditions.

Certificates / approvals

Report 900 6059 000/10-3	Construction panel - StoDeco Plan - A2-s1, d0 Classification of fire behaviour according to EN 13501-1
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Identification

Product group

Facade profiles

Special information

The information and data in this technical data sheet is intended for common applications and the product's suitability for these, and is based on our findings and experience.

Nevertheless, users are responsible for establishing the suitability of the product for their intended use.

Applications other than those mentioned explicitly in this technical data sheet may not be carried out unless they have been discussed with Sto AG. Where no approval is given, such applications are at the risk of the user. This applies in particular when the product is used in combination with other products.

When a new technical data sheet is published, all previous technical data sheets are no longer valid.

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