

facade ceramic VALS

Technical data sheet

Classification according to EN 14411 ISO 13006 annex G standards Bla with $E \leq 0,5\%$ UGL

Product description

Frost-resistant facade ceramic, made of dry-pressed, double-fired porcelain stoneware. The product is solid-colored and rectified.

The series is available in various formats and two surfaces. The product is manufactured in the EU.

Areas of application

- As facade cladding (EWI system or ventilated facade system) optionally with factory-applied adhesive coating
- As wall or floor covering in interior or exterior areas
- As stair and terrace cladding

The maximum permissible areas/side lengths according to the general building inspectorate approvals (ABZ) of the facade system manufacturers must be observed. The standard joint width is 8 mm.

Colors & surface texture

Surface and color of the series are based on the look of the natural stone gneiss used at Therme Vals in the Swiss canton of Graubünden. The product is available in two surface structures. The "rough" surface is characterized by a rough-matt texture with a slight mica effect. The "struc" surface has a similar texture, but with a significantly stronger structure.

Formats & surfaces

Standard format	
Thickness (mm)	9,0
Format/nominal size (cm)	30x60
Surface area (m ²)	0,18

Special formats				
Thickness (mm)	9,0		20	
Format/nominal size (cm)	10x60	15x60	60x60	45x90
Surface area (m ²)	0,06	0,09	0,36	0,405

Terrace slab available in "struc"

Standards & directives

DIN 18157-1	Execution of ceramic claddings using the thin-bed method
DIN EN 12004	Mortar and adhesive for ceramic tiles and slabs
DIN 18352	Tile and slab work
DIN 18515-1	Exterior wall claddings - Tiles or slabs fixed with mortar
DIN 18540	Sealing of exterior wall joints in building construction with joint sealant
DIN 18202	Dimensional tolerances in building construction
DIN EN 14411	Tolerances for ceramic tiles and slabs
ZDB data sheet	Movement joints in claddings and coverings made of tiles and slabs

Technical specifications

Determination of dimensional specifications and surface quality	ISO 10545-2	in accordance
Water absorption	ISO 10545-3	≤ 0,5%
Bending strength	ISO 10545-4	in accordance $F_{Fr} \geq 1300 \text{ N}$ $\sigma_{Fcr} \geq 35 \text{ N/mm}^2$
Deep scratch resistance	ISO 10545-6	in accordance $l \leq 32 \text{ mm} / V \leq 175 \text{ mm}$
Thermal linear expansion coefficient	ISO 10545-8	6 x 10 ⁻⁶ /K
Thermal shock resistance	ISO 10545-9	in accordance
Expansion in humidity	ISO 10545-10	in accordance
Frost resistance	ISO 10545-12	in accordance
Resistance to chemicals	ISO 10545-13	in accordance
Stain resistance	ISO 10545-14	in accordance
Building material class	DIN 4102-1	A1 non-flammable
Slip resistance	DIN 51-130 (XP-P05-010) DIN 51-097 (XP-P05-010)	rough: R10 struc: R11 A+B+C (also terrace slab)
Porosity: Pore volume VP Pore radius maximum rP	DIN 66133	38,1 - 38,3 mm ³ /g in accordance 0,4 - 0,5 µm in accordance

Processing & care

PDF download of our processing and care instructions available at www.deltaelements.eu.

Customer service

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This technical data sheet replaces the previous version. It provides information about the product properties and fields of application. Delta Elements has compiled all recommendations with due diligence according to the state of the art. Numeric information may deviate within the general tolerances for production technology reasons. The list of standards and directives merely serves as an overview with no claim of completeness. This technical datasheet does not constitute any guarantee in regards to the recommendations provided. Delta Elements assumes no liability and refers to its general business terms and conditions. No rights can be derived from the contents of the technical datasheet. The respective current version and the general business terms and conditions are available at www.deltaelements.eu; printing errors reserved.