

HIGH LOAD ACID PROOF FLOOR TILES

RESISTANT TO ACIDS, FRICTION AND LOADS



GOLDEN CRYSTAL TRADING

Technical Data Sheet

PRODUCT DESCRIPTION

A 15 mm-thick, high-load floor tiles designed for high point loads. They are Dry pressed ceramic tiles with low water absorption $\leq 0.5\%$, unglazed, they are also extremely hard and durable.

These tiles are ideal for use in :

- 1-Places exposed to acids.
- 2-Tanks of acids and chemicals.
- 3-Places where there are materials with unpleasant odors (such as industrial kitchens and public sanitary).
- 4-Food laboratories and plants, dairy plants, and packaging plants.
- 5-Oil plants, meat production plants, soft drinks plants, and food packaging plants.
- 6-Industrial hall floors.
- 7-Floors of chemical stores and chemical laboratories.
- 8-Places where there is a risk of slipping for the safety of users.
- 9-Battery storage rooms.
- 10-Pharmaceutical plants.
- 11-Warehouses and cold rooms.
- 12-Pump rooms, material tanks and waste rooms.
- 13-Workshops and laundries.
- 14-Corridors and public places.
- 15-Loading and unloading areas in industrial buildings.

Z-SPACER IN THE TILES

The Z-Spacer : is a distance marker profile section protruding at the sides of the tiles.

Benefits of Z-Spacer:

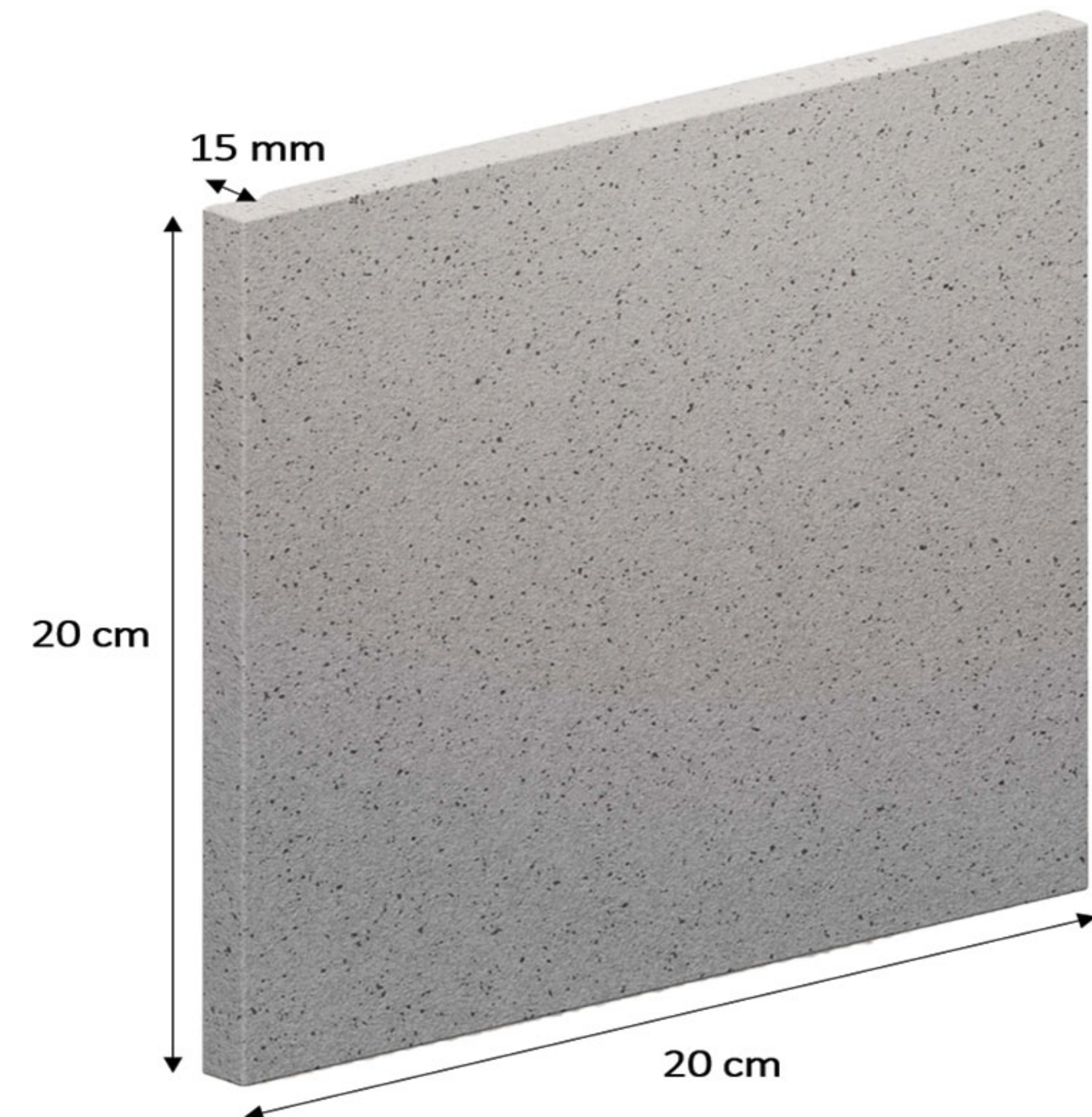
- 1-Fast laying and ensuring precisely defined spacing of joints.
- 2-Joint gaps are kept clear allowing for easy application of grouting material.
- 3-Consistent bonding between the mortar bed and grouting material.
- 4-Prevents chipping at the upper edges of tiles during the vibration laying process.
- 5-Ensuring straight and narrow groove finish.

KERASIEGEL

The majority of the unglazed tiles are supplied coated with the "Kerasiegel" ceramic surface finish. The coating and the ceramic material are permanently bonded during the baking process.

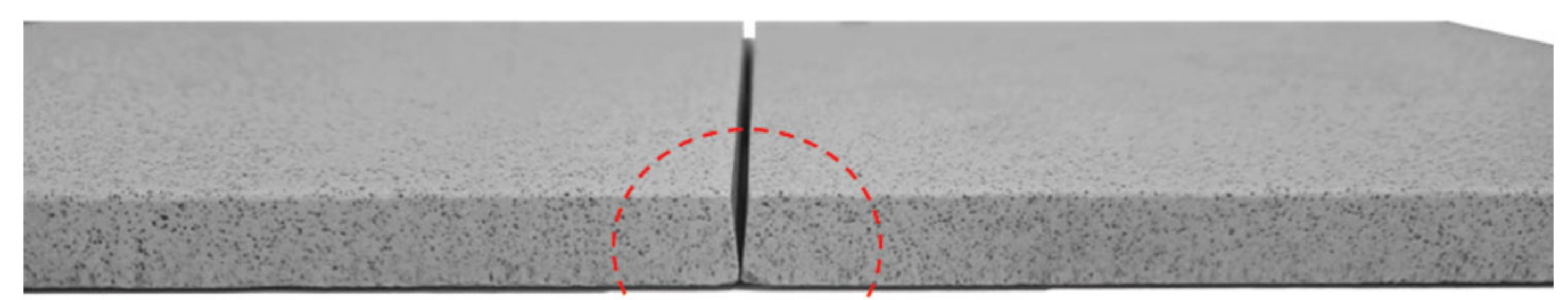
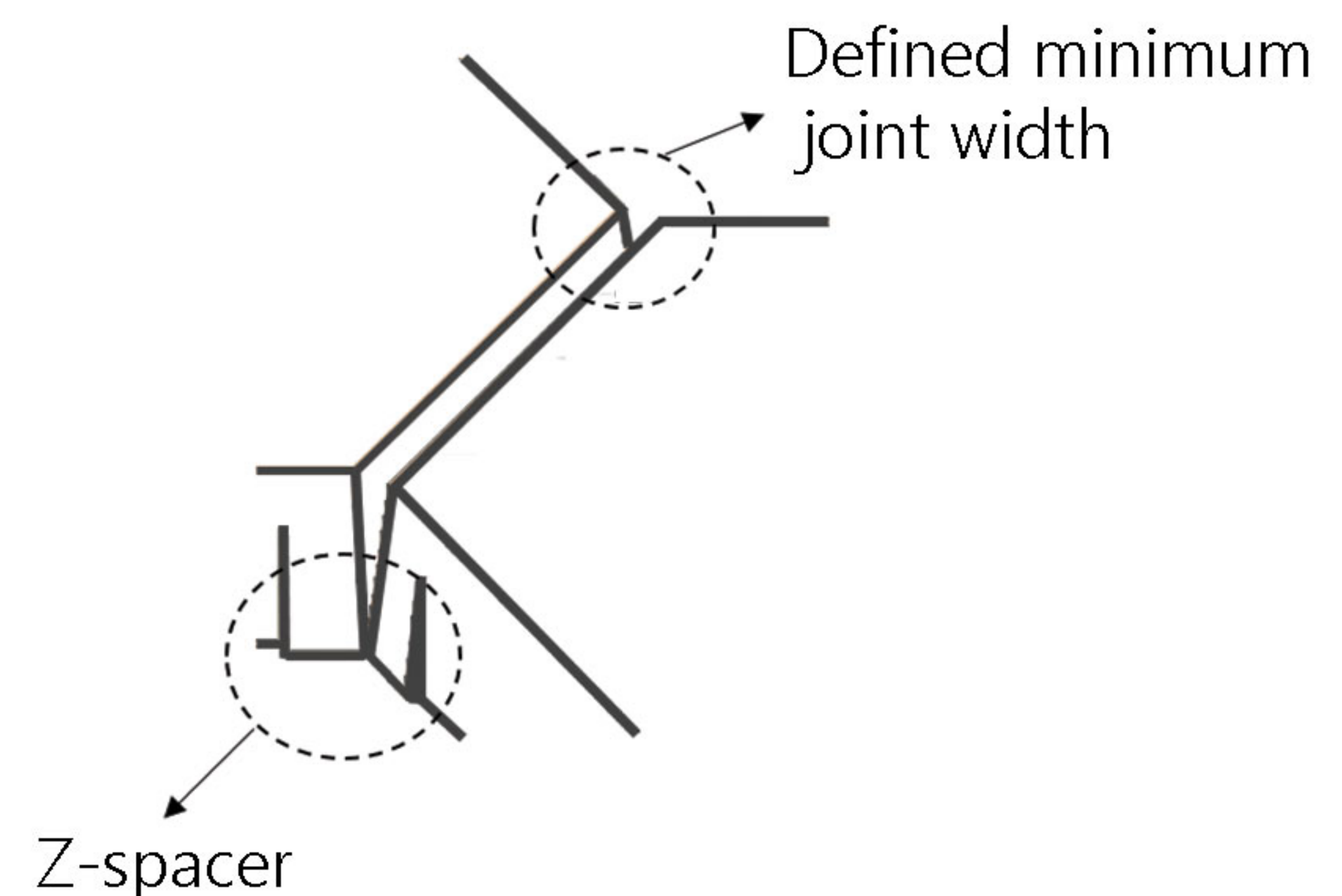
Advantages of the ceramic coating surface finish:

- 1-Ceramic sealing of tile surfaces.
- 2-No need for impregnating sealers after installation..
- 3-Minor soiling.
- 3-Easy to clean.
- 4-Refined satin matt finish.
- 5-Increased colour intensity.



APPEARANCE/ANTI-SLIP PROTECTION

Fine grain / Plain colors : 81 caracas / Grey
Dimension : 20 cm x 20 cm
Thickness : 15 mm
Surfaces – Anti-slip protection : R11



Fully vitrified material for internal and external surfaces

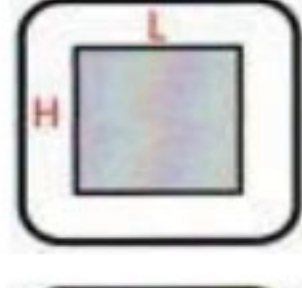


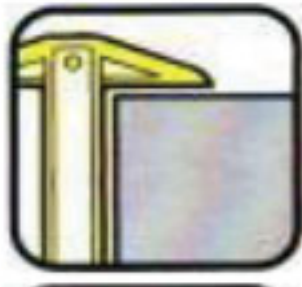












Open surface without Kerasiegel



Kerasiegel surface



TECHNICAL DATASHEET					
	Characteristics	Reference	Requirement EN 14411:2016	Value	Note
	A	Dimensions and surface quality	EN 10545-2		N ≥ 15 cm
	A. 1	Length and width		± 0.6 %	± 0.3 %
	A. 2	Thickness		± 5 %	± 2.5 %
	A. 3	Straightness of sides		± 0.5 %	± 0.25 %
	A. 4	Rectangularity		± 0.5 %	± 0.25 %
	A. 5	Surface flatness		± 0.5 %	± 0.25 %
	A. 6	Surface quality		95%	95%
					diagonally
	B. 1	Water absorption	EN 10545-3	Max. 0.5%	Max. 0.5%
	B. 2	Breaking strength	EN 10545-4	min. 1300 N	2500 - 3500 N 5000 - 7000 N 7500 - 10000 N
					11 mm thickness 15 mm thickness 18 mm thickness
	B. 3	Modulus of rupture	EN 10545-4	* min. 35 N/mm ²	min. 35 N/mm ²
					*when B.2 <3000 N
	B. 4	Resistance to deep abrasion	EN 10545-6	Max. 175 mm ³	Max. 175 mm ³
	B. 5	Coefficient of linear thermal expansion	EN 10545-8	-	6.57*10 ⁻⁶ /°C
	B. 6	Thermal shock resistance	EN 10545-9	passed	passed
	B. 8	Frost resistance	EN 10545-12	passed	passed
	B. 9	Slipperiness	DIN 51130	*	R9 - R13
					*according to use
	B. 11	Moisture expansion	EN 10545-10	-	Max. 0.05 %
	B. 12	Small color differences	EN 10545-16	xxxxx	xxxxx
	B. 13	Impact resistance as coefficient of restitution	EN 10545-5	xxxxx	0.83
	B. 14	Reaction to fire	CWT	A1 _{FL}	A1 _{FL}
	B. 15	Tactility	CEN/TS 15209	xxxxx	xxxxx
	C. 1	Resistance to staining	EN 10545-14		Minimum class 3
					sealed
	C. 2	Resistance to chemicals	EN 10545-13	Minimum class B	Minimum class B
					except HF and its compounds
	C. 3	Release of dangerous substances	EN 10545-15	xxxxx	xxxxx

- Made in Germany
- Tiles are 100% recyclable.
- The product emits no VOC
- Recycling within production 15%, share of recycled raw materials approx. 5%.
- Checked in German, French and English testing laboratories, audited by AKQR and CSTB.
- Certified according to DIN EN ISO 9001: 2015; DIN EN ISO 50001:2011
- Made mostly of local raw materials. Low impact on environment during transport.