

Range Name:
Crossover

Ref: TDS-Crossover-26E1
Technical specification of dry pressed ceramic wall tiles manufactured in accordance with the EN 14411 standard, B111 group.

Physical Properties	Result
Group	Bl _a
Values According To	EN14411
Material	Porcelain
Colours	Beige, White, Grey, Black, Base, Concrete, Concept, Stone
Finish	Matt, Structured (R11C), Structured (R12)
Size Formats (mm)	8mm
Thickness (mm)	598 x 598, 298 x 598
Rectified	Yes
Shade Variation	V1 (Base) to V3 (Stone)

Technical Properties	Testing To Standard	Values
Reaction to fire	EN14411:2012	A1/A1 _{FL}
Release of dangerous substances - glazed tiles:		
Lead [mg/dm ²]	EN14411:2012	NA - not applicable
Cadmium [mg/dm ²]	EN14411:2012	NA - not applicable
Other	EN14411:2012	NPD - no performance determined
Bond strength / adhesion [N/mm ²]:		
cementitious adhesives	EN14411:2012	≥ 0.5
dispersion adhesives	EN14411:2012	≥ 1
reaction resin adhesives	EN14411:2012	≥ 2
mortar	EN14411:2012	NPD - no performance determined
Thermal shock resistance	EN14411:2012	Pass
Breaking strength [N]	EN14411:2012	minimum 1300
Slipperiness according to CEN/TS 16165:2021, Annex B - α_{prod} [°]		
For R10C Class Tiles	EN14411:2012	$10 \leq \alpha_{\text{prod}} < 19$
For R11C Class Tiles	EN14411:2012	$19 \leq \alpha_{\text{prod}} < 27$
For R12 Class Tiles	EN14411:2012	$27 \leq \alpha_{\text{prod}} < 35$
Tactility	EN14411:2012	NPD - no performance determined
Durability for:		
internal uses	EN14411:2012	Pass
external uses: freeze-thaw resistance	EN14411:2012	Pass

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Technical Properties	Testing To Standard	Values
Thickness	EN14411:2012	8.0 mm
Tolerances		
Average width	EN14411:2012	± 0.6 %; ± 2.0 mm
Average length	EN14411:2012	± 0.6 %; ± 2.0 mm
Average thickness	EN14411:2012	± 5 %; ± 0.5 mm
Straightness (width)	EN14411:2012	± 0.5 %; ± 1.5 mm
Straightness (length)	EN14411:2012	± 0.5 %; ± 1.5 mm
Rectangularity (width)	EN14411:2012	± 0.5 %; ± 2.0 mm
Rectangularity (length)	EN14411:2012	± 0.5 %; ± 2.0 mm
Flatness centre curvature (diagonal)	EN14411:2012	± 0.5 %; ± 2.0 mm
Flatness edge curvature (width)	EN14411:2012	± 0.5 %; ± 2.0 mm
Flatness edge curvature (length)	EN14411:2012	± 0.5 %; ± 2.0 mm
Flatness warpage (diagonal)	EN14411:2012	± 0.5 %; ± 2.0 mm
Water absorption EB [%]	EN14411:2012	≤ 0.5
Breaking strength [N]	EN14411:2012	minimum 1300
Flexural tensile strength [N/mm²]	EN14411:2012	minimum 35
Physical Resistances		
Deep abrasion - unglazed tiles [mm³]	EN14411:2012	maximum 175
Surface abrasion - glazed tiles, PEI/number of rotations	EN14411:2012	NA - not applicable
Crazing - glazed tiles	EN14411:2012	NA - not applicable
Impact resistance	EN14411:2012	NPD - no performance determined
Chemical Resistances	EN14411:2012	
Resistance to staining		minimum 3 class
Resistance to low concentrations of acids and alkalis	EN14411:2012	LA(V) class
Resistance to high concentrations of acids and alkalis	EN14411:2012	HA(V) class
Resistance to household chemicals and swimming pool salts	EN14411:2012	A(V) class
Natural radioactivity [Bq/kg]	EN14411:2012	f1 ≤ 1, f2 ≤ 240
Displacement area class / displacement surface	DIN 51130	NPD - no performance determined
Emissions of volatile organic compounds (VOCs) - class	ISO 16000	A+
Thermal conductivity coefficient [W/m*K]	PN-EN 12664	NPD - no performance determined
Safety class of glass products	PN-EN 12600	NA - not applicable
Class UPEC	CSTB-Cahier 3778_V6	NA - not applicable

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Technical Properties	Testing To Standard	Values
Slip Resistance for R10C Tiles		
BARE FOOT	DIN EN 16165:2023-02, Attachment A	C
BARE FOOT $\alpha_{barefoot}$ [°]	EN 16165:2021, Attachment A	$24 \leq \alpha_{barefoot}$
R Value	DIN EN 16165:2023-02, Attachment B	R10
PTV - risk of dry/wet slippage - slider 55	BS 7976-2:2002+A1:2013 / UKSRG	Low (≥ 36) / Medium ($25 \div 36$)
PTV - risk of dry/wet slippage - slider 96	BS 7976-2:2002+A1:2013 / UKSRG	Low (≥ 36) /Medium ($25 \div 36$)
Slip Resistance for R11C Tiles		
BARE FOOT	DIN EN 16165:2023-02, Attachment A	C
BARE FOOT $\alpha_{barefoot}$ [°]	EN 16165:2021, Attachment A	$24 \leq \alpha_{barefoot}$
R Value	DIN EN 16165:2023-02, Attachment B	R11
PTV - risk of dry/wet slippage - slider 55	BS 7976-2:2002+A1:2013 / UKSRG	LOW (≥ 36) / LOW (≥ 36)
PTV - risk of dry/wet slippage - slider 96	BS 7976-2:2002+A1:2013 / UKSRG	LOW (≥ 36) / LOW (≥ 36)
Slip Resistance for R12 Tiles		
BARE FOOT	DIN EN 16165:2023-02, Attachment A	C
BARE FOOT $\alpha_{barefoot}$ [°]	EN 16165:2021, Attachment A	$24 \leq \alpha_{barefoot}$
R Value	DIN EN 16165:2023-02, Attachment B	R12
PTV - risk of dry/wet slippage - slider 55	BS 7976-2:2002+A1:2013 / UKSRG	LOW (≥ 36) / LOW (≥ 36)
PTV - risk of dry/wet slippage - slider 96	BS 7976-2:2002+A1:2013 / UKSRG	LOW (≥ 36) / LOW (≥ 36)

