

## Warm Concrete Look



# **Tocco Concrete Porcelain Paving**

### **Designs**



**Please note:** Colour shades may differ between batches. If you need a specific batch to match a previous order for a project, please inform us when placing your order, although availability can't be guaranteed.



#### **Dimensions & Packing Details**

600 x 600 x 20mm 600 x 1200 x 20mm 1200 x 1200 x 20mm

Bespoke fabrication available

Weight: 44.8kg/m<sup>2</sup>

#### **Packing Details**

Nominal Size	Working Size	Pieces X Box	Sqm X Box	Boxes X Pallet	Kg X Box	Sqm X Pallet
600x600	595x595	2	0.72	30	33	21.6
600x1200	595x1195	1	0.72	35	33.35	25.2
1200x1200	1195x1195	1	1.44	20	67.66	28.8

#### **Regularity Characteristics**

Technical Features	Norms	Required Standard	Performance Value
Length and width		± 0.6% or ± 2mm (*)	± 0.3% / ± 1mm (*)
Thickness		± 5% / 0.5mm (**)	± 5% / 0.5mm (**)
Straightness of sides		± 0.5% / ± 1.5mm (***)	± 0.3% / 0.8mm (***)
Rectangularity (Measurement only on short edges when L/I≥3	ISO 10545-2	± 0.5% / ± 2mm (****)	± 0.3 % / ± 1.5 mm
Surface flatness		c.c. ± 0.5% / 2mm e.c. ± 0.5% / 2mm w. ± 0.5% / 2mm	Not applicable to "strong" structures

#### **Structural Characteristics**

Technical features	Norms	Required Standard	Performance Value
Water absorption level (in% by mass)	ISO 10545-3	E≤ 0,5% Individual Maximum 0,6%	≤O.1%
	ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0.5%	≤0.5%

#### **Bulk Mechanical Characteristics**

Technical features	Norms	Required Standard	Performance Value
Breaking strength	ISO 10545-4	S ≥ 1300 N	S ≥10000 N
Modulus of rupture		R ≥ 35 N/mm²	R ≥45 N/mm²
Bending and breaking load resistance (4)(5)	EN 1339 Annex F	-	For specific values check the table below named "Physical-mechanical features in accordance with EN 1339"
Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value	≥0.55
Repeated Shock Test (Installation on pedestals)	QB UPEC F+	No breakage permitted	Compliant

#### **Surface Mechanical Characteristics**

Technical features	Norms	Required Standard	Performance Value
Impact resistance, as coefficient of restitution	ISO 10545-6	≤ 175 mm³	≤150mm³



#### **Thermal and Hygrometric Characteristics**

Technical features	Norms	Required Standard	Performance Value
Coefficient of linear thermal expansion	ISO 10545-8	Declared value	≤7MK <sup>-1</sup>
Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1	Resistant
Moisture expansion (in mm/m)	ISO 10545-10	Declared value	≤0.01% (0.1mm/m)
Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1	Resistant

## **Physical Characteristics**

Technical features	Norms	Required Standard	Performance Value
Bond strength/adhesion for improved cementitious adhesives	EN 1348	Declared value	≥1.0 N/mm² (Class C2 - EN 12004)
Reaction to fire	-	Class A1 or A1 <sub>fl</sub>	A1 - A1 <sub>fl</sub>

#### **Chemical Characteristics**

Technical features	Norms	Required Standard	Performance Value
Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum B class	А
Resistance to low concentrations of acids and alkalis		Declared class	LA
Resistance to high concentrations of acids and alkalis		Declared class	НА
Resistance to staining, for unglazed tiles	ISO 10545-14	Declared class	5

#### **Safety Characteristics**

Technical features	Norms	Required Standard	Performance Value
Shod Ramp Test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared value	R11
Barefoot Ramp test	DIN EN 16165 ANNEX A (EX DIN 51097	Declared value	A+B+C
	BS EN 16165 ANNEX C (EX BS 7976)	PTV ≥ 36 classifies the surface as "low slip risk"	≥36Dry ≥36Wet
Pendulum friction Test	AS 4586	Declared Classification of the pedestrian surface	Class P4
	UNE 41901 EX:2017	Declared value	Class C3
Coefficient of friction (COF)	B.C.R.A. Rep. CEC/81	- Min. Dec. 236/89 of 14/06/89 - μ > 0.40 for a sliding leather element on a dry floor - μ > 0.40 for a sliding hard rubber element on a wet floor	>0.40 Dry (Asciutto) >0.40 Wet (Bagnato)
Dynamic coefficient of friction (DCOF)	ANSI A 326,3		>0.55 Wet

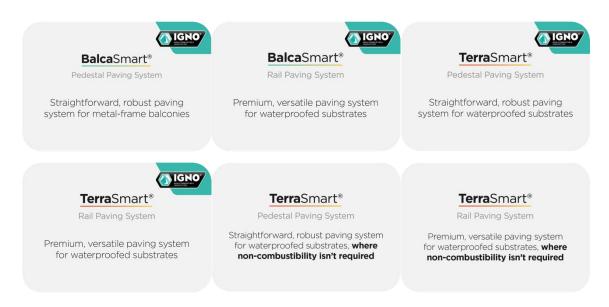
#### Physical-mechanical features in accordance with EN 1339

Technical features	EN 1339 standard	Performance Value	
Water absorption	Annex E	< 0,1%	
Bending strength / Breaking load	Annex F	Marking ≥ T11 60x60 Marking ≥ U4 60x120 Marking ≥ T11 120x120	
Frost resistant in the presence of defrosting salts	Annex D	Resistant	



- (•) Anti-slip performance is guaranteed at the time of delivery of the product.
- (\*) The permissible deviation, in % or mm, of the average size for each tile (2 or 4 sides) from work size (W).
- (\*\*) The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (W). (\*\*\*) The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (W).
- (\*\*\*\*) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (W).
- c.c. The maximum permissible deviation from centre curvature, in % or mm, related to the diagonal calculated from the work sizes (W).
- e.c. The maximum permissible deviation from edge curvature, in % or mm, related to the corresponding work sizes (W).
- w. The maximum permissible deviation from warpage, in % or mm, related to the diagonal calculated from the work sizes (W).

#### **Compatible Systems**



#### **Got Questions?**

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