

# Natural Stone Look Tocco Stone Porcelain Paving

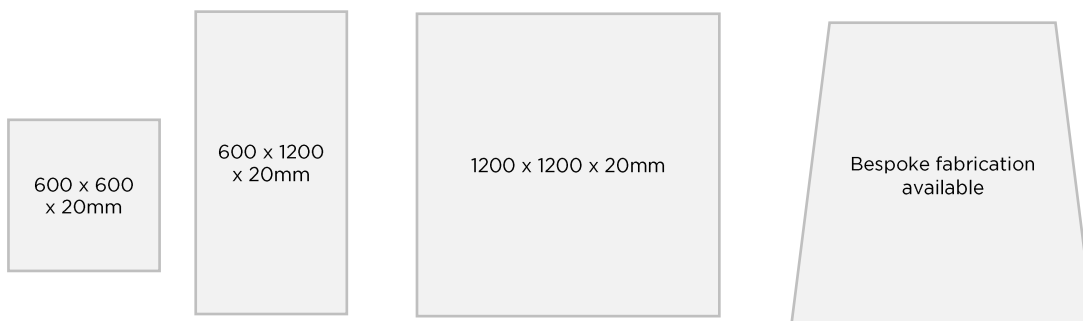


## Designs



**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



**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	ISO 10545-2	$\pm 0.6\%$ or $\pm 2\text{mm}$ (*)	$\pm 0.3\%$ / $\pm 1\text{mm}$ (*)
Thickness		$\pm 5\%$ / $0.5\text{mm}$ (**)	$\pm 5\%$ / $0.5\text{mm}$ (**)
Straightness of sides		$\pm 0.5\%$ / $\pm 1.5\text{mm}$ (***)	$\pm 0.3\%$ / $0.8\text{mm}$ (***)
Rectangularity (Measurement only on short edges when $L/l \geq 3$ )		$\pm 0.5\%$ / $\pm 2\text{mm}$ (****)	$\pm 0.3\%$ / $\pm 1.5\text{mm}$
Surface flatness		c.c. $\pm 0.5\%$ / $2\text{mm}$ e.c. $\pm 0.5\%$ / $2\text{mm}$ w. $\pm 0.5\%$ / $2\text{mm}$	Not applicable to "strong" structures

## Structural Characteristics

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

## Bulk Mechanical Characteristics

Technical features	Norms	Required Standard	Performance Value
Breaking strength	ISO 10545-4	$S \geq 1300\text{ N}$	$S \geq 10000\text{ N}$
Modulus of rupture		$R \geq 35\text{ N/mm}^2$	$R \geq 45\text{ N/mm}^2$
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	$\geq 0,55$
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	$\leq 175\text{ mm}^3$	$\leq 150\text{mm}^3$

## Thermal and Hygrometric Characteristics

Technical features	Norms	Required Standard	Performance Value
Coefficient of linear thermal expansion	ISO 10545-8	Declared value	$\leq 7\text{MK}^{-1}$
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	$\leq 0,01\%$ ( $0,1\text{mm/m}$ )
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	$\geq 1,0\text{ N/mm}^2$ (Class C2 - EN 12004)
Reaction to fire	-	Class A1 or A1fi	A1 - A1fi

## Chemical Characteristics

Technical features	Norms	Required Standard	Performance Value
Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum B class	A
Resistance to low concentrations of acids and alkalis		Declared class	LA

Resistance to high concentrations of acids and alkalis		Declared class	HA
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
Pendulum friction Test	BS EN 16165 ANNEX C (EX BS 7976)	PTV $\geq 36$ classifies the surface as "low slip risk"	$\geq 36$ Dry $\geq 36$ Wet
	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 - $\mu > 0.40$ for a sliding leather element on a dry floor - $\mu > 0.40$ 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 $\geq$ T11 60x60 Marking $\geq$ U4 60x120 Marking $\geq$ T11 120x120
Frost resistant in 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).





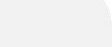
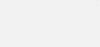
(\*\*\*\*) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (W).

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

 <b>BalcaSmart®</b> Pedestal Paving System  Straightforward, robust paving system for metal-frame balconies	 <b>BalcaSmart®</b> Rail Paving System  Premium, versatile paving system for waterproofed substrates	 <b>TerraSmart®</b> Pedestal Paving System  Straightforward, robust paving system for waterproofed substrates
 <b>TerraSmart®</b> Rail Paving System  Premium, versatile paving system for waterproofed substrates	 <b>TerraSmart®</b> Pedestal Paving System  Straightforward, robust paving system for waterproofed substrates, <b>where non-combustibility isn't required</b>	 <b>TerraSmart®</b> Rail Paving System  Premium, versatile paving system for waterproofed substrates, <b>where non-combustibility isn't required</b>

### Got Questions?

Visit [www.rynogroup.co.uk](http://www.rynogroup.co.uk) or call us today on **+44 (0)203 967 3500** or reach out on [sales@rynogroup.co.uk](mailto:sales@rynogroup.co.uk).