

## Tender specifications

### TANDEM collection

Supply of Town & Country Surfaces

#### Product characteristics

Town & Country Surfaces full body porcelain stoneware tiles, unglazed, composed of a very fine mixture of quality clay with the addition of feldspar, quartz and kaolin, manufactured by dry pressing of atomized powders and subsequently sintered by industrial firing at temperatures above 1200°C. The complete vitrification of the tiles allows for a compact, non-absorbent, frost-proof product, resistant to bending, impacts, staining, chemical attack and thermal shock.

#### Compliance with EN 14411-G/ ISO 13006-G

The TANDEM collection is in compliance with the regulations required for first quality products in Italy and Europe UNI EN 14411-G and internationally through ISO 13006-G.

#### Quality and environmental certifications

The conservation of the product characteristics is guaranteed by the Quality Management System put into practice by Town & Country Surfaces in its plants and certified in accordance with UNI EN ISO 9001. The collection is manufactured in plants with UNI EN ISO 14001 certified Environmental Management Systems (internationally recognized standard) and EMAS (Regulation 1221/09 - eco-management and audit community system). The collection helps to meet the criteria for obtaining LEED credits. The content of "pre-consumer" recycled material is 40%, as certified by a qualified external body (LEED V4 Regulations - MR Credit). The product contains no VOC (volatile organic compounds) and got the GREENGUARD GOLD certification. The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the TANDEM collection based on its Life Cycle Assessment (LCA).

#### Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the TANDEM collection have continuous, effective and durable protection against the proliferation of bacteria, tested and certified in accordance with ISO 22196 and ASTM E3031. (Not for GRIP L2-20 mm\* surface).

Commercial description of the product			
Company	Town & Country Surfaces		
Collection	COAL, GRAY, SAND, WHITE, BROWN,		
Colours	PIECE ALPI, PIECE DARK, PIECE LIGHT, PIECE MOKA, PIECE SIENA		
Sizes	120x120 NAT RTT		
	60x120 NAT RTT	60x120 GRIP RTT (Available colours: COAL, GRAY, SAND, WHITE)	60x120 GRIP L2-20mm RTT* (Available colours: COAL, GRAY, SAND, WHITE)
	60x60 NAT RTT	60x60 GRIP RTT (Available colours: COAL, GRAY, SAND, WHITE)	
	30x60 NAT RTT		
Surfaces	NAT, GRIP, GRIP L2-20mm		
Edges	RETTIFICATI (RTT)		
Thickness	9mm – 20mm (L2)		

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### Technical features

Product type: full body porcelain stoneware (UGL)

According to: ISO 13006-G (Group Bla), EN 14411-G (Group Bla)

Technical features		Test method	Required values ISO 13006-G, EN 14411-G	Average values TANDEM
Water absorption		ISO 10545-3 ISO 10545-4	≤ 0.5%	0,05 %
Breaking strength (S)		ISO 10545-4	≥ 1300 N	Thick. 9mm: 1800 N Thick. 20mm: 13.600 N
Modulus of rupture		ISO 10545-6	≥ 35 N/mm <sup>2</sup>	50 N/mm <sup>2</sup>
Deep abrasion resistance		ISO 10545-8	≤ 175mm <sup>3</sup>	145mm <sup>3</sup>
Linear thermal expansion		ISO 10545-14	No provision	α ≤ 7·10 <sup>-6</sup> °C <sup>-1</sup>
Stain resistance		ISO 10545-13	Class 3 Min.	5 RESISTANT
Chemical resistance (*)		ISO 10545-12	As indicated by manufacturer	LA, HA RESISTANT
Frost resistance		ISO 10545-2	No alteration	RESISTANT
Dimensions	Lenght and width	ISO 10545-2	± 0,3 %, max ± 1 mm	COMPLIANT
	Straightness of sides	ISO 10545-2	± 0,3 %, max ± 0,8 mm	COMPLIANT
	Rectangularity	ISO 10545-2	± 0,3 %, max ± 1,5 mm	COMPLIANT
	Warpage	ISO 10545-2 DIN EN	± 0,4 %, max ± 1,8 mm	COMPLIANT
	Thickness	16165 – Annex B	± 5 %, max ± 0,5 mm	COMPLIANT
Slip resistance			-	R10 (NAT) R11 (GRIP – GRIP L2-20mm)
		DIN EN 16165 – Annex A	-	A+B (NAT) A+B+C (GRIP – GRIP L2-20mm)
		BCR-TORTUS	-	μ > 0,40
		ANSI A326.3	-	ID - DCOF≥0.42 (Dry) (NAT) IW - DCOF≥0.42 (Wet) (NAT) EW (GRIP - GRIP L2-20mm) IW+ *** (NAT) P4 (GRIP – GRIP L2-20mm)
		AS 4586:2013	-	P3 (NAT)
		BS 7976:2002	-	PTV 36+Wet (Sl.96 - Sl.55) (GRIP) PTV 36+Wet (Sl.96) (NAT)
Shade variation		ANSI A 137.1	As indicated by manufacturer CPR	V2
Fire reaction		EN 13823	(UE) 305/2011,2000/147/CE,	Class A1 (wall)
		EN 9239-1	UNI EN 13501-1	Class A1fl (floor)
Thermal conductivity		EN 12524	-	λ = 1,3 W/m °K
Recommended minimum joint (**)		Indoor	-	2mm
		Outdoor	-	5-6 mm

(\*) Excluding hydrofluoric acid and its derivatives.

(\*\*) The width of grout joints must be established by the installation supervisor, unless grout widths are regulated by national laying standards.

(\*\*\*)With the exception of areas characterized by a higher risk of slipping (such as public showers, indoor swimming pools, etc.) for which an Anti-slip surface is recommended (Grip).

### MORE INFO:



#### Town & Country Surfaces

212 Fifth Avenue  
Suite 1714  
New York NY 10001

#### General Inquiries:

info@tncsurfaces.com  
Phone: 212-679-0312

