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COLOURED-BODY GLAZED STONEWARE

TECHNICAL FEATURES

COLOURED-BODY GLAZED STONEWARE according to ANSI A137.1 (Glazed Porcelain Tiles - P1 Class)

TECHNICAL FEATURES	TEST METHOD	REQUIRED VALUES	AVERAGE VALUES
WATER ABSORPTION	ASTM C1373	≤ 0.5%	CONFORMS
BREAKING STRENGTH	ASTM C648	≥ 250 lbf	350 lbf (3 mm) 2,800 lbf (20 mm)
SURFACE ABRASION RESISTANCE	ASTM C1027	As indicated by manufacturer	PEI 5 (Whitby Marble) PEI 4 (Grey Marble, Orange Marble)
LINEAR THERMAL EXPANSION	ASTM C1372	No provision	$\alpha \leq 4.4 \times 10^{-6} \text{ } ^\circ\text{F}^{-1}$ $\alpha \leq 8 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
STAIN RESISTANCE	ASTM C1378	As indicated by manufacturer	A RESISTANT
CHEMICAL RESISTANCE*	ASTM C650	As indicated by manufacturer	A RESISTANT
FROST RESISTANCE	ASTM C1026	As indicated by manufacturer	RESISTANT
BOND STRENGTH	ASTM C482	≥ 50 PSI	CONFORMS
SLIP RESISTANCE	DIN EN 16105 - Annex B DIN EN 16105 - Annex A ANSI A326.3	-	R11 Anti-Slip***, Structured 20 mm Anti-Slip C (R4-R9) Anti-Slip***, Structured 20 mm Anti-Slip 10 - 100P ± 0.42 (Dry) Natural 100P ± 0.42 (Wet) Natural 100P ± 0.42 (Wet) Natural EW Anti-Slip***, Structured 20 mm Anti-Slip V4 Substantial variation
SHADE VARIATION	ANSI A137.1	As indicated by manufacturer	Class A
FLAME SPREAD	ASTM E84	-	1/8" - 3.2 mm approx. 3/16" - 4.7 mm approx.
THERMAL CONDUCTIVITY	EN 12524	-	$\lambda = 1.3 \text{ W/m } ^\circ\text{K} / 0.7 \text{ BTU/in } ^\circ\text{F}$
RECOMMENDED MINIMUM JOINT**	RECT (MOJO®) OUTDOOR	-	-
THICKNESS	SIZES	-	9 mm
	24"x24" Rect - 80x80 cm	-	
	12"x24" Rect - 30x60 cm	-	
	24"x8" Rect - 60x20 cm	-	
	24"x24" - 607x607 mm	-	

(*) Excluding hydrochloric acid and its derivatives.
 (**) Grout Joint Recommendations: Per TCMA Handbook, the minimum required joint width for ceramic tile and natural stone is 1/16", setting ceramic or stone without a grout joint of a least 1/16", often referred to as a butt joint, does not provide sufficient accommodation for dynamic building movement, differential thermal expansion, or allowable variation in fabrication or manufacturing.
 (***) With the exception of areas characterized by a higher risk of slipping (such as public showers, locker rooms and steam rooms) for which an Anti-Slip surface is recommended.
 (****) Anti-Slip surface special order only.

PACKINGS AND WEIGHTS

SIZES	SF / CTN	LINEAR FT / CTN	PIECES / CTN	CTN / PALLET	SF / PALLET	LBS / CTN	LBS / PALLET
24"x48" Rect Natural / Anti-Slip	15.61	-	2	36	551.96	71.65	2,579.4
24"x24" Rect Natural / Anti-Slip	15.61	-	4	36	551.96	64.48	2,321.28
12"x24" Rect Natural / Anti-Slip	15.61	-	8	32	493.92	64.48	2,063.28
ACCESSORY 12"x24" Rect Natural / Anti-Slip	15.61	-	4	36	551.96	64.48	2,321.28
MOSAIC 25 PCS 12"x12" Rect Natural	3.87	-	8	32	493.92	64.48	2,063.28
MURETTO A43 12"x28" Rect Natural	7.75	-	4	81	313.47	14.89	1,206.09
BULLHOUND 4"x24" Rect Natural	9.82	31.5	16	60	599.2	39.46	2,367.6
COVE BASE 6"x12" Rect Natural	3.87	-	8	108	417.0	16.5	1,762
24"x24" 20 mm Structured Anti-Slip	8.03	-	2	36	293.08	73.85	2,658.6
COPING ROUNDED EDGE 12"x24" Rect 20 mm Structured Anti-Slip	1.94	-	1	100	194	11.91	1,191
COPING 45 ANGLE L / R ROUNDED EDGE 12"x24" Rect 20 mm Structured Anti-Slip	1.45	-	1	100	145	13.45	1,345
COPING STRAIGHT EDGE A 12"x24" Rect 20 mm Structured Anti-Slip	1.94	-	1	194	18.25	18.25	1,825
COPING STRAIGHT EDGE B 3"x24" Rect 20 mm Structured Anti-Slip	0.45	-	1	-	4.25	4.25	4.25

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INTENDED USE

KEY

RESIDENTIAL

Kitchens, bathrooms, living rooms and other residential environments.

LIGHT COMMERCIAL

Offices, offices open to the general public, hotels, shopping malls, airports, government apartment blocks, spas, restaurant dining rooms, caf  s, showrooms, bars, cinemas, supermarkets, hotels, retail stores and bathrooms.

INTENSIVE COMMERCIAL

Common areas of shopping centres, hotel lobbies, hospitals, schools, museums, places of worship, airports, stations.

OUTDOOR

Mainly for external areas that require flooring with anti-slip characteristics.

CERTIFICATIONS



Product designed in Italy and made in Italy

PANAMIA AND THE ENVIRONMENT



100% REUSE OF INFIRED TILES
 Glaze waste generated by the process is reintegrated in the production cycle with no costs for the environment. This contributes to the safeguard of natural resources.



100% REUSE/RECYCLING OF INDUSTRIAL WASTE - FIRED TILES
 The waste-fired tiles are fully reused in the production cycle. In addition, at the end of life, the tiles Panamia can be recycled as materials for substrates for roads and buildings, thus reducing the use of gravel and natural aggregates commonly used in building.



100% WATER RECYCLING
 The water used in the production process is recycled. The water demand is strongly reduced by this mean.



100% OF NON CERAMIC WASTE
 Is differentiated and recycled in other production cycles.



LOW EMISSIONS IN THE ATMOSPHERE
 Panamia production plant strictly complies to US Standards with a very small amount of gas emissions in the atmosphere.



SAFETY REQUIREMENTS: NO FIRE REACTION
 All of Panamia's ceramic tile products are Class A building materials as described in ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials. This is due to the flame spread rating of (0) and smoke developed rating of (0) falling within the ranges of A1 material. Other building codes refer to this as a Type I material in accordance with NFPA 265.



PANAMIA PACKING MATERIAL IS 100% RECYCLABLE
 Carton boxes, plastic packaging materials, wooden pallets, straps, etc.



METHANE CONSUMPTION IS HIGHLY REDUCED
 By the use of up to date technologies and customized installations.