

Connect

COLOURED-BODY GLAZED STONEWARE

PROJECT
ANTIVIBRATIONAL SURFACE
with Microam™

TECHNICAL FEATURES

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

TECHNICAL FEATURES	TEST METHOD	REQUIRED VALUES - ANSI A137.1	CONNECT AVERAGE VALUES
WATER ABSORPTION	ASTM C373	≤ 0.5%	CONFORMS
BREAKING STRENGTH	ASTM C648	≥ 250 lbf	350 lbf @ 9 mm
SURFACE ABRASION RESISTANCE	ASTM C1027	As indicated by manufacturer	PEI 5 SOCP/PII PEI 4 HARDBOAR - BROCKLYN - AKASHI PEI 3 FORTH
LINEAR THERMAL EXPANSION	ASTM C372	No provision	α ≤ 4.4 x 10 ⁻⁶ /°F α ≤ 8 x 10 ⁻⁶ /°C
STAIN RESISTANCE	ASTM C1378	As indicated by manufacturer	A RESISTANT
CHEMICAL RESISTANCE*	ASTM D650	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 16155 - Annex B DIN EN 16155 - Annex A ANSI A328.3	-	R11 Anti-Slip*** C (A+B+C) Anti-Slip*** 10 - COSE > 0.42 (dry) Natural 10+ - DOSE > 0.42 (wet) Natural 10+ - Natural*** - Anti-Slip*** EW Anti-Slip*** V3 Moderate variation
SHADE VARIATION	ANSI A137.1	As indicated by manufacturer	CONFORMS
FLAME SPREAD	ASTM E84	-	Class A
THERMAL CONDUCTIVITY	EN 12524	-	λ = 1.3 W/m · K / 0.7 BTU/h · °F
RECOMMENDED MINIMUM JOINT†	RECT (INDOOR) NOT RECT (INDOOR) OUTDOOR	-	1/8" - 3.2 mm approx. 3/16" - 4.7 mm approx. 3/16" - 4.7 mm approx.
THICKNESS	SIZES	-	9 mm
	24"x24" - 604x604.4 mm	-	
	12"x24" - 3046.04 cm	-	
	6"x24" Rect - 1586.0 cm	-	

(*) 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 at least 1/16", often referred to as a butt joint, does not provide sufficient accommodation for 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, indoor swimming pools, 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"x24" Natural / Anti-Slip	15.82	-	4	36	509.52	64.48	2,321.28
12"x24" Natural / Anti-Slip	15.82	-	8	32	506.24	66.58	2,130.56
6"x24" Rect Natural / Anti-Slip	11.62	-	12	48	557.76	52.47	2,518.51
MOSAIC 36 PCS 12"x12" Natural	4.84	-	5	90	432.6	20	1,800
MURETTO 12"x26" Natural	7.75	-	4	30	292.5	31.97	959.1
COVE BASE 6"x12" Natural	3.87	-	8	108	417.96	16.53	1,785.24
BULLnose 6"x24" Natural	10.8	31.71	16	60	648	44.09	2,645.4

Connect

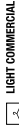
COLOURED-BODY GLAZED STONEWARE

INTENDED USE

KEY



RESIDENTIAL
Kitchens, bathrooms, living rooms and other residential environments.



LIGHT COMMERCIAL
Offices, offices open to the general public, waiting rooms, shops, public restrooms, common areas, schools, museums, libraries, shopping centres, showrooms, bars, cinemas, supermarkets, hotel rooms and bathrooms.



INTENSIVE COMMERCIAL
Common areas of shopping centres, hotel lobbies, centres, fast food restaurants, dance clubs, airports, 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 USA

PANAMIA AND THE ENVIRONMENT



100% REUSE OF INFRA-RED TILES
Cycle waste generated by the process is recycled in the production cycle with no costs for the environment. This contributes to the safeguarding of natural resources.



100% REUSE/RECYCLING OF THE INDUSTRIAL WASTE - FIRED TILES
The waste fired tiles are fully reused in the production cycle. In addition, at the end of life, the tiles Panama 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
Panama 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 Panama'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 a Class A material. Other building codes refer to the as a Type I material in accordance with NFPA 255.



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.