Connect

COLOURED-BODY GLAZED STONEWARE

PROTECT ANTIMICROBIAL SURFACE with MICROBAN

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** SOSPIRI **PEI 4** HARBOUR - BROOKLYN - AKASHI **PEI 3** FORTH
LINEAR THERMAL EXPANSION	ASTM C372	No provision	**α ≤ 4.4 x 10^{-6} °F^{-1}** **α ≤ 8x 10^{-6} °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 STRENGHT	ASTM C482	≥ 50 PSI	**CONFORMS**
SLIP RESISTANCE	DIN EN 16165 - Annex B	-	**R11** Anti-Slip****
	DIN EN 16165 - Annex A	-	**C (A+B+C)** Anti-Slip****
	ANSI A326.3	-	**ID - DCOF ≥ 0.42 (dry)** Natural **IW - DCOF ≥ 0.42 (wet)** Natural **IW+** Natural*** - Anti-Slip**** **EW** Anti-Slip****
SHADE VARIATION	ANSI A137.1	As indicated by manufacturer	**V3 Moderate variation**
FLAME SPREAD	ASTM E84	-	**Class A**
THERMAL CONDUCTIVITY	EN 12524	-	**λ = 1,3 W/m °K / 0.7 BTU/ft h °F**
RECOMMENDED MINIMUM JOINT(**)	RECT (INDOOR)	-	**1/8"** - 3.2 mm approx.
	NOT RECT (INDOOR)	-	**3/16"** - 4.7 mm approx.
	OUTDOOR	-	**3/16"** - 4.7 mm approx.
THICKNESS	**SIZES**		
	24"x24" - 60.4x60.4 cm	-	**9 mm**
	12"x24" - 30x60.4 cm	-	
	6"x24" Rect - 15x60 cm	-	

(*) Excluding hydrofluoric acid and its derivatives.
(**) Grout Joint Recommendations. Per TCNA 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, 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	569.52	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	435.6	20	1,800
MURETTO 12"x28" Natural	7.75	-	4	30	232.5	31.97	959.1
COVE BASE 6"x12" Natural	3.87	-	8	108	417.96	16.53	1,785.24
BULLNOSE 4"x24" Natural	10.8	31.71	16	60	648	44.09	2,645.4

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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, waiting rooms, shops, public bathrooms, common apartment block areas, restaurant dining rooms, car showrooms, bars, cinemas, surgeries/clinics, hotel rooms and bathrooms.

INTENSIVE COMMERCIAL

Common areas of shopping centres, hotel foyers, canteens, fast food restaurants, dance clubs, hospitals, schools, museums, places of worship, airports, stations.

OUTDOOR

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

CERTIFICATIONS

CERTIFIED PORCELAIN TILE™
0.5% or less water absorption

DCOF Acutest Dynamic Coefficient Of Friction

USGBC MEMBER

PANARIA CERAMICA
is a member of the U.S. Green Building Council: this is an organisation that promotes buildings that are environmentally responsible, profitable and healthy places to live and work.
LEED card CONNECT series is available on request.

GREENGUARD CERTIFICATION
CONNECT series is made in a production plan "GOLD" certified by GREENGUARD.

100% ECO COMPATIBILE CERAMICA PANARIA

40% PANARIA CERAMICA recycled ceramic content [preconsumer material] LEED COMPLIANT CREDIT MR

Certified by BUREAU VERITAS

GREEN SQUARED
Certified by UL Environment

ENVIRONMENTAL PRODUCT DECLARATION
This Environmental Product Declaration is provided by Tile Council of North America (TCNA).

Product designed in Italy and made in USA

PANARIA AND THE ENVIRONMENT

100% REUSE OF UNFIRED TILES

Crude 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 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 Panaria 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

Panaria 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 Panaria'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 this as a Type I material in accordance with NFPA 255.

PANARIA 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.