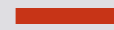


Metropolitan

Contemporary harmony and creativity



The beauty of feeling at home





The joy of living in dynamic and versatile spaces

Bringing intrigue and functionality to spaces through the use of surfaces with a soft and delicate aesthetic, but which are decidedly superior in strength and durability; giving you total freedom in the creation of your own spaces, as well as your own way of life.

Fair

Stained

Solid

Infused

Creativity without limits, to design each space according to a modern lifestyle

I like to share spaces that speak of me, my emotions and the times that I live

Glazed porcelain stoneware

Indoor
NATURAL

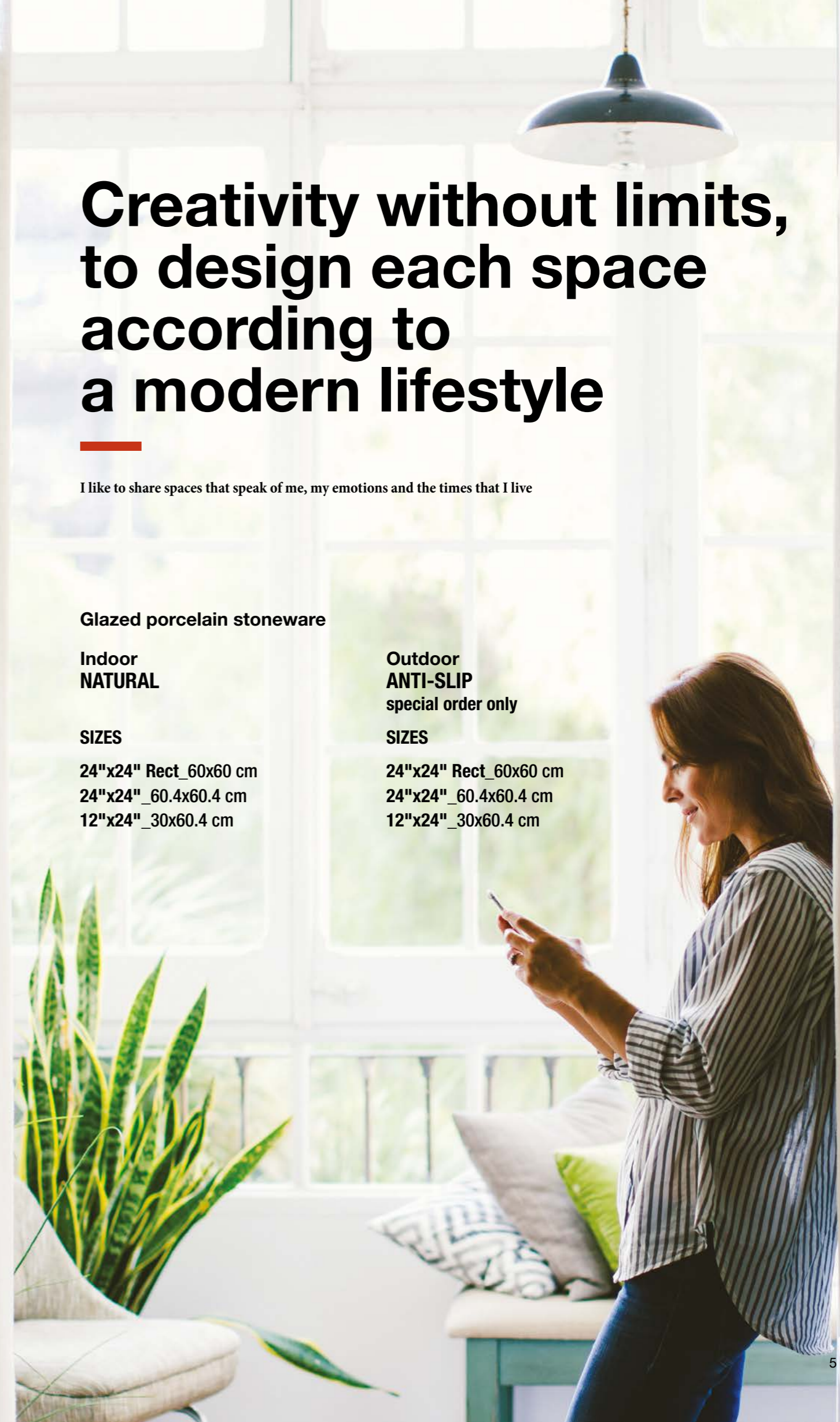
SIZES

24"x24" Rect_60x60 cm
24"x24" _60.4x60.4 cm
12"x24" _30x60.4 cm

Outdoor
ANTI-SLIP
special order only

SIZES

24"x24" Rect_60x60 cm
24"x24" _60.4x60.4 cm
12"x24" _30x60.4 cm





An elegant look, in touch with your personality

Metropolitan reinterprets industrial cement surfaces with a contemporary style, using subtle shades to create a balanced combination of color schemes and structures. The result is a pleasantly animated texture, available in 4 colors, in both 24"x24" - 60x60/60.4x60.4 cm and 12"x24" - 30x60.4 cm sizes and enhanced with decorations and mosaics, capable of bringing a simple elegance to any interior design project.





Mosaic Stained Natural 12"x12" - 30x30 cm
Stained Natural 12"x24" - 30x60.4 cm









**Strength and simplicity
are the backdrop of welcoming
and comforting spaces
to be shared with those you love**









Mosaic Solid Natural 12"x12" - 30x30 cm
Solid Natural 12"x24" - 30x60.4 cm



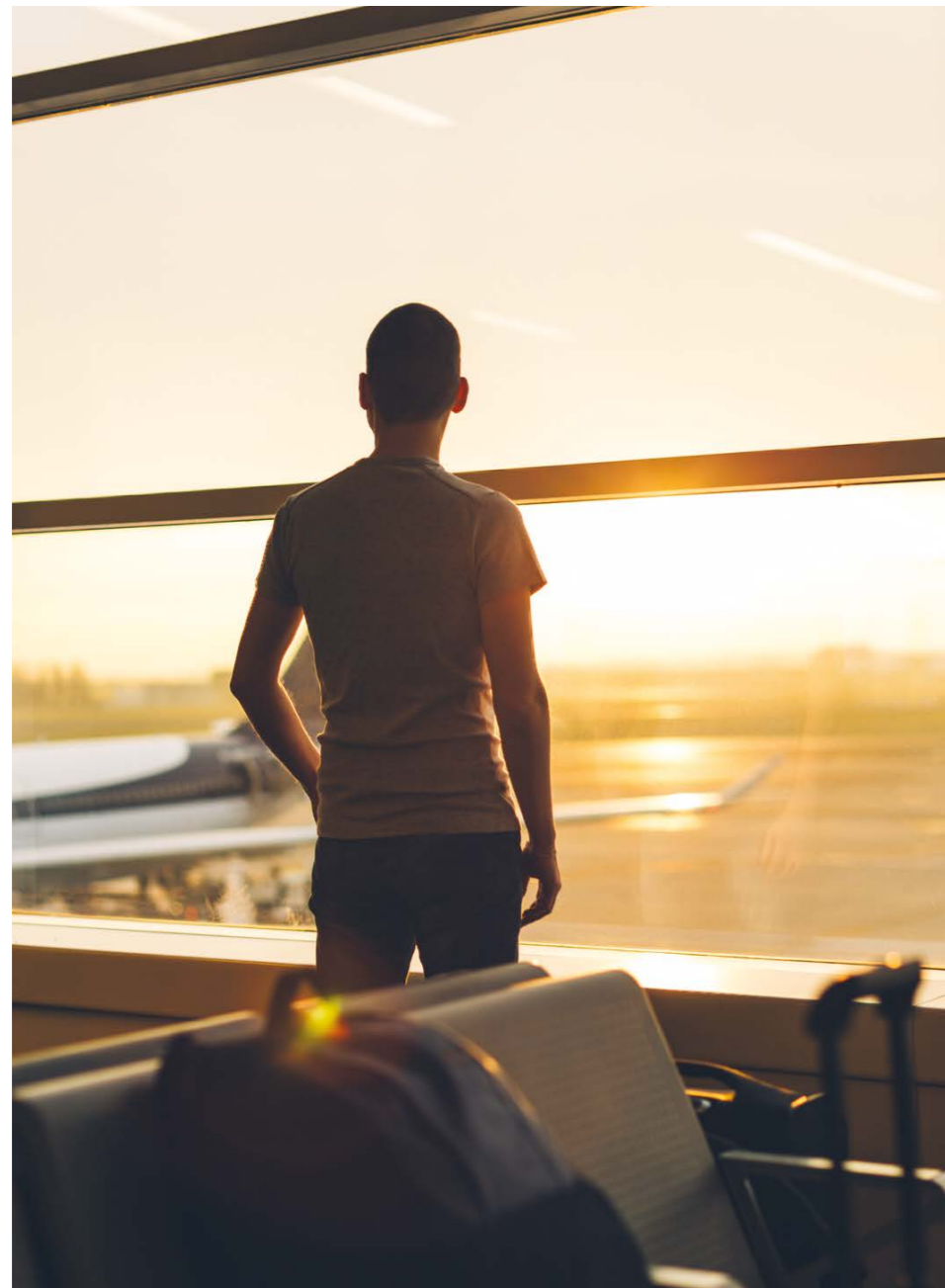






Light Stripes Natural 12"x24" - 30x60.4 cm
Fair Natural 24"x24" - 60.4x60.4 cm

Porcelain stoneware surfaces with a contemporary design which support and stimulate modern creativity, based on emotion and functionality



Fair Natural 24"x24" - 60.4x60.4 cm



Metropolitan

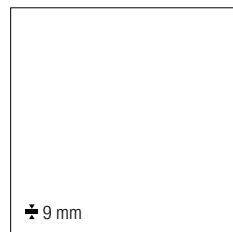
COLOURED-BODY GLAZED STONEWARE

INTENDED USE: NATURAL    ANTI-SLIP 

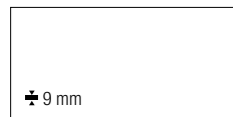
FAIR



24"x24" Rect - 60x60 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



24"x24" - 60.4x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



12"x24" - 30x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only

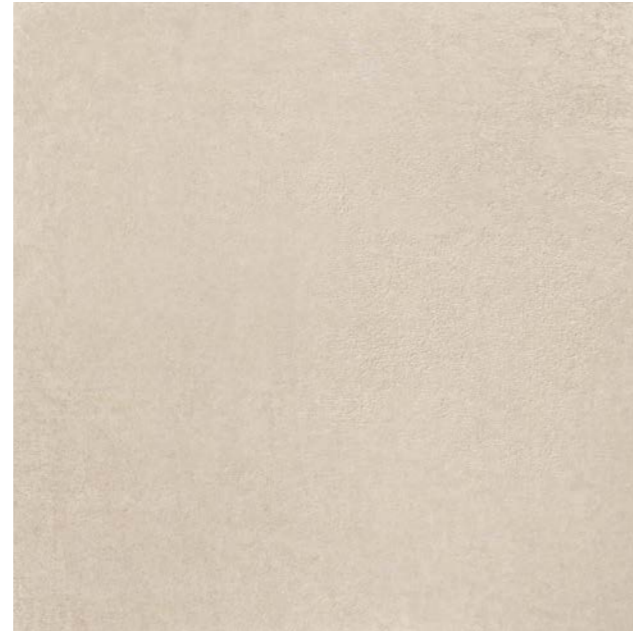


LIGHT STRIPES

12"x24" - 30x60.4 cm
NATURAL / ANTI-SLIP
± 9 mm

Suitable for Fair and Stained colors
Anti-Slip surface special order only

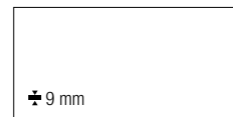
STAINED



24"x24" Rect - 60x60 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



24"x24" - 60.4x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



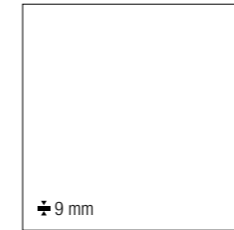
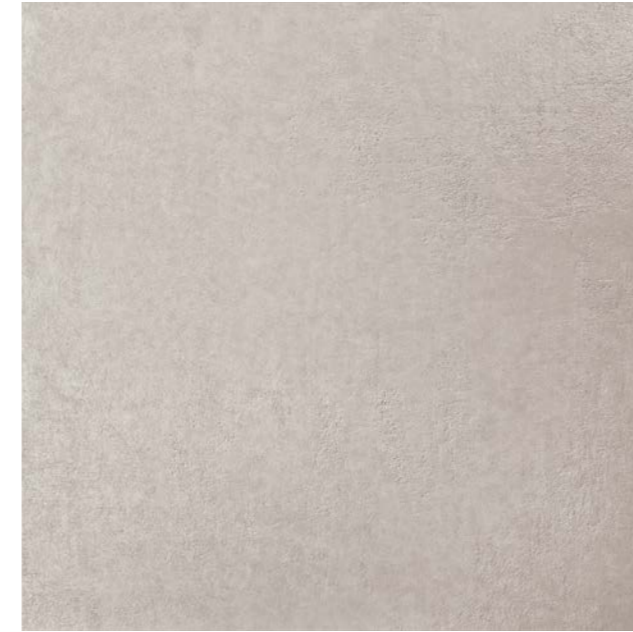
12"x24" - 30x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only

Metropolitan

COLOURED-BODY GLAZED STONEWARE

INTENDED USE: NATURAL    ANTI-SLIP 

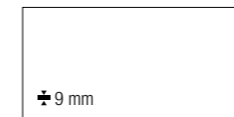
SOLID



24"x24" Rect - 60x60 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



24"x24" - 60.4x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



12"x24" - 30x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only

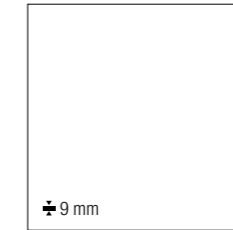
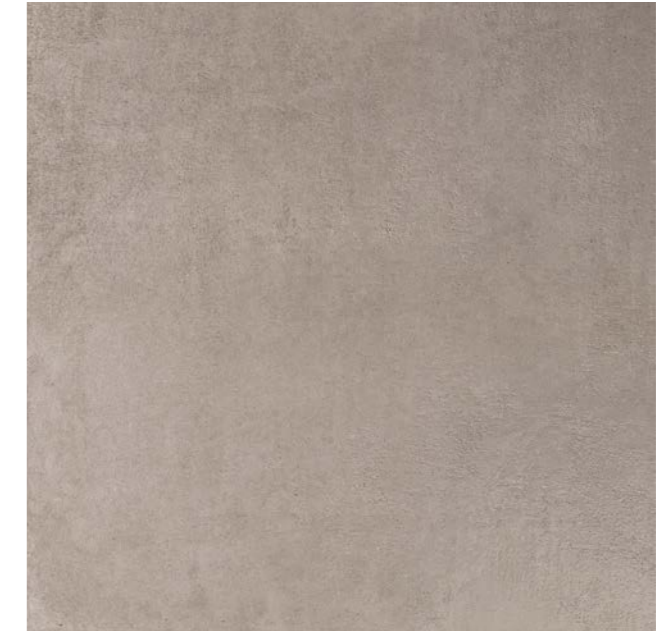


DARK STRIPES

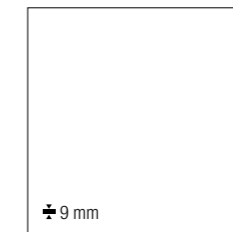
12"x24" - 30x60.4 cm
NATURAL / ANTI-SLIP
± 9 mm

Suitable for Solid and Infused colors
Anti-Slip surface special order only

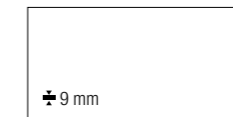
INFUSED



24"x24" Rect - 60x60 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



24"x24" - 60.4x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only



12"x24" - 30x60.4 cm
NATURAL
ANTI-SLIP
Anti-Slip surface special order only

Metropolitan

COLOURED-BODY GLAZED STONEWARE

DECOS



MOSAIC 16 PCS FAIR
12"x12" - 30x30 cm
NATURAL
± 9 mm



MOSAIC 16 PCS STAINED
12"x12" - 30x30 cm
NATURAL
± 9 mm

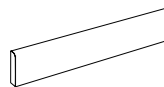


MOSAIC 16 PCS SOLID
12"x12" - 30x30 cm
NATURAL
± 9 mm

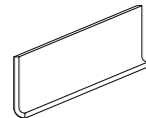


MOSAIC 16 PCS INFUSED
12"x12" - 30x30 cm
NATURAL
± 9 mm

TRIM PIECES



BULLNOSE
3"x12" - 8x30 cm
NATURAL
± 9 mm
All colors available



COVE BASE
6"x12" - 15x30 cm
NATURAL
± 9 mm
Special order only

Metropolitan

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 - ANSI A137.1	METROPOLITAN 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 FAIR - STAINED - SOLID PEI 4 INFUSED
LINEAR THERMAL EXPANSION	ASTM C372	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 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	V2 Slight variation
FLAME SPREAD	ASTM E84	-	Class A
THERMAL CONDUCTIVITY	EN 12524	-	$\lambda = 1,3 \text{ W/m }^\circ\text{K} / 0.7 \text{ BTU/ft h }^\circ\text{F}$
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" Rect - 60x60 cm	-	9 mm
	24"x24" - 60.4x60.4 cm	-	
	12"x24" - 30x60.4 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" Rect Natural / Anti-Slip	15.61	-	4	36	561.96	64.49	2,321.64
24"x24" Natural / Anti-Slip	15.82	-	4	36	569.52	64.59	2,325.24
12"x24" Natural / Anti-Slip	15.82	-	8	32	506.24	66.578	2,130.496
LIGHT/DARK STRIPES 12"x24" Natural / Anti-Slip	15.82	-	8	32	506.24	66.578	2,130.496
MOSAIC 16 PCS 12"x12" Natural	3.88	-	4	81	313.88	16.53	1,338.93
COVE BASE 6"x12" Natural	3.87	-	8	108	417.96	16.53	1,785.24
BULLNOSE 3"x12" Natural	5.17	19.84	20	112	579.04	19.84	2,222.08

Metropolitan

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 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



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 METROPOLITAN series is available on request.



GREENGUARD CERTIFICATION
Panaria METROPOLITAN series is made in a production plan GOLD GREENGUARD certified.



Certified by



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.



LOW EMISSIONS IN THE ATMOSPHERE

Panaria production plant strictly complies to US Standards with a very small amount of gas emissions in the atmosphere.



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.



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.



100% WATER RECYCLING

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



PANARIA PACKING MATERIAL IS 100% RECYCLABLE

Carton boxes, plastic packaging materials, wooden pallets, straps, etc.



100% OF NON CERAMIC WASTE

Is differentiated and recycled in other production cycles.



METHANE CONSUMPTION IS HIGHLY REDUCED

By the use of up to date technologies and customized installations.



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Group Marketing & Communications - Panariagroup
February 2023

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ceramica

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