

# Metaline

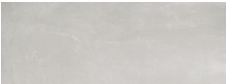
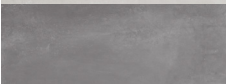
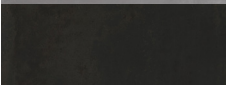
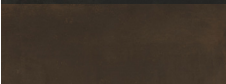
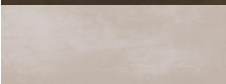
## SPECIFICATION

### Material

Porcelain stoneware. Classified in GROUP BIa UGL con  $E_v \leq 0,5\%$ .  
 Complies with all the requirements of UNI EN 14411 ISO 13006 APP. G standards.



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Catalog

COLOR		SIZES & SURFACES		THICKNESS
	<b>Steel</b>	<b>V2</b>	<u>Mega Matte Rectified (6 mm)</u> 160x320 (62 <sup>7/8</sup> "x125 <sup>3/4</sup> " ) . 120x280 (47 <sup>1/4</sup> "x110 <sup>1/4</sup> " )	6 mm 9 mm 20 mm
	<b>Zinc</b>	<b>V2</b>	<u>Matte Rectified (9 mm)</u> 80x160 (31 <sup>1/2</sup> "x63" ) . 120x120 (47 <sup>1/4</sup> "x47 <sup>1/4</sup> " ) . 60x120 (23 <sup>1/2</sup> "x47 <sup>1/4</sup> " ) . 20x120 (8"x47 <sup>1/4</sup> " ) . 80x80 (31 <sup>1/2</sup> "x31 <sup>1/2</sup> " ) 60x60 (23 <sup>1/2</sup> "x23 <sup>1/2</sup> " ) . 30x60 (11 <sup>7/8</sup> "x23 <sup>1/2</sup> " ) . 20x60 (8"x23 <sup>1/2</sup> " ) . 10x60 (4"x23 <sup>1/2</sup> " )	
	<b>Iron</b>	<b>V2</b>	<u>Melt Rectified (9 mm)</u> 60x120 (23 <sup>1/2</sup> "x47 <sup>1/4</sup> " ) . 20x120 (8"x47 <sup>1/4</sup> " )	
	<b>Corten</b>	<b>V2</b>	<u>Antislip Not Rectified (9 mm)</u> 30x60 (11 <sup>7/8</sup> "x23 <sup>1/2</sup> " )	
	<b>Plate</b>	<b>V2</b>	<u>Open Antislip Rectified (20 mm)</u> 80x80 (31 <sup>1/2</sup> "x31 <sup>1/2</sup> " ) . 60x60 (23 <sup>1/2</sup> "x23 <sup>1/2</sup> " )	

### Process certified according to the ISO 9001 quality standard

Product obtained from exceptionally pure, choice quality raw materials, including light-coloured clays, feldspar fluxes, kaolins, sands and coloured ceramic pigments. Pressing in hydraulic presses allows a pressure of over 500kg/cm<sup>2</sup> to be applied to the product, guaranteeing dimensional precision, planarity and high mechanical strength. The product's colours and patterns are achieved with the innovative Digital Technology. The materials are fired in single-layer roller kilns at temperatures of over 1,220°C.

### Green building certified environmental sustainability

The tiles in the Metaline collection are ideal for eco-sustainable building:

- They are produced in plants which have an EMAS-ISO 14001 certified environmental management system.
- They help to obtain credits for the construction of buildings in accordance with the LEED certification programme.

Size \_\_\_\_\_

Finishes \_\_\_\_\_

Color \_\_\_\_\_ Type \_\_\_\_\_



放射能水平A类



EN 14411



# Metaline

## SPECIFICATION



FLOOR



WALL



FACING SYSTEMS



RESIDENTIAL INDOOR



RESIDENTIAL OUTDOOR



PUBLIC INDOOR



PUBLIC OUTDOOR















HEAVY TRAFFIC

### TECHNICAL TABLE PORCELAIN STONEWARE

CONFORMING TO STANDARDS

EN 14411 ISO 13006 ANNEX G GROUP BIa UGL CON Ev ≤ 0,5%

PHYSICAL PROPERTIES	TESTING METHOD	REFERENCE STANDARD	PRODUCT VALUES	
 Sizes	EN ISO 10545-2		$7\text{cm} \leq N < 15\text{cm}$ (mm) $N \geq 15\text{cm}$ (%) (mm) <b>Rectified</b>	
		Length and width	±0.9    ±0.6 ±2.0	±0.2 %
		Thickness	±0.5    ±5.0 ±0.5	±5 %
		Linearity	±0.75    ±0.5 ±1.5	±0.2 %
		Wedging	±0.75    ±0.5 ±2.0	±0.2 %
		Warpage	±0.75    ±0.5 ±2.0	±0.2 %
		Appearance: percentage of acceptable tiles, per lot	95 % min.    95 % min.    -	
 Water absorption %	EN ISO 10545-3	Ev ≤ 0,5%	< 0,1%	
 Modulus of rupture	EN ISO 10545-4	Valore medio 35 N/mm <sup>2</sup> min.	45 N/mm <sup>2</sup>	
 Breakage resistance		sp. > = 7,5 mm: min 1300 N sp. < 7,5 mm: min 700 N	2500 N (9 mm)	
 Scratch resistance	EN ISO 10545-6	175 mm3 max.	Average < 150 mm3	
 Thermal expansion coefficient	EN ISO 10545-8	Declared value	6,8 MK <sup>-1</sup>	
 Thermal shock resistance	EN ISO 10545-9	Pass according to iso 10545-1	* Resistant	
 Frost resistance	EN ISO 10545-12	Pass according to iso 10545-1	* Resistant	
 Resistance to low concentrations of acids and alkali	EN ISO 10545-13	Declared value	* Resistant	
 Resistance to high concentrations of acids and alkali		Declared value	* Resistant	
Resistance to domestic chemicals and additives for swimming pools		UB min.	UA	
 Stain resistance of unglazed matte porcelain	EN ISO 10545-14	Declared value	* Resistant	
 Friction coefficient (slipperiness)	DIN 51130	If needed	Declared value	
	DIN 51097		Declared value	
	B.C.R.A. - D.M.236/ 89		> 0,40 Dry / > 0,40 Wet	
	ANSI A326.3		≥ 0,42 Wet	



  
 Assessed by Ongreening, this product can potentially contribute to major green rating systems.  
 For more info visit [Ongreening.com](https://www.ongreening.com)

