



**Opera Group S.r.l.**

**Uffici e Sala Mostra**

41053 Maranello – loc. Bell'Italia (Mo)- Via Martinella,74 – ITALY

Tel centralino +39 0536.934811 – Fax +39 0536.934819

E-mail: [info@ceramicaopera.it](mailto:info@ceramicaopera.it)

Sito Web: [www.ceramicaopera.it](http://www.ceramicaopera.it)

**Stabilimento**

41031 Camposanto (Mo) – Polo industriale S. Felice s/Panaro – Via Ponte Bianco,22

## Collection: **MILESTONE**

Article/Colour: <b>WHITE</b>	<b>Cod. art.</b> LN66026 / LN22026 / LN99026
Article/Colour: <b>SILVER</b>	<b>Cod. art.</b> LN66027 / LN22027 / LN99027
Article/Colour: <b>SAND</b>	<b>Cod. art.</b> LN99028 / LN22028 / LN99028
Article/Colour: <b>BLACK</b>	<b>Cod. art.</b> LC66029 / LC22029 / LC99029

Size N: 60x60 cm / Rt size: <b>59.7x59.7 cm - 24"x24"</b>	Thinknees <b>9.5 mm</b>
Size N: 60X120 cm / Rt size <b>59.7x119.7 cm - 24"x48"</b>	Thinknees <b>9.5 mm</b>
Size N: 90x90 cm / Rt size <b>89.7x89.7 cm - 35"X35"</b>	Thinknees <b>9.5mm</b>
Technology: digital Porcelain stoneware	



**Norma UNI EN 14411 – ISO 13006**

**Appendix G – GROUP BIa - GL**

**Dry-pressed ceramic tiles, with water absorption  $E \leq 0,5\%$**



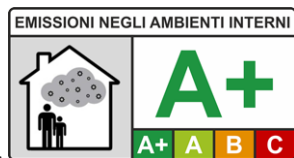
### Technical Properties

	Characteristic Technical	Reference standard or method of measure	Value Required by standard		Values Opera Group srl
			Not Rectified	Rectified	
<b>DIMENSIONS AND QUALITY OF THE SURFACE</b>	Legth et Width  (Admissible deviation (%) of the average size of each tile from the manufacturing dimension W)	UNI EN ISO 10545-2	± 0,6%, max 2 mm	± 0,3%, max 1 mm	COMPLIANT
	Thickness		± 5%, max 0,5 mm	± 5%, max 0,5 mm	COMPLIANT
	Straightness of the edges		± 0,5%, max 1,5 mm	± 0,3%, max 0,8 mm	COMPLIANT
	Orthogonality		± 0,5%, max 2 mm	± 0,3%, max 1,5 mm	COMPLIANT
	Planarity		± 0,5%, max 2 mm	± 0,4%, max 1,8 mm	COMPLIANT
	Surface flatness		The 95% min. of the Tiles must be free		COMPLIANT
<b>PHYSICAL PROPERTIES</b>	Wter absorption	UNI EN ISO 10545-3	$E_v \leq 0,5 \%$		0,2%
	Breaking strengh	UNI EN ISO	Min. 1300 N		2200 N

	Flexion resistance	10545-4	Min 35 N/mm <sup>2</sup>	Average value 40 N/mm <sup>2</sup>
	Resistance to thermal shock	UNI EN ISO 10545-9	Method of evidence available	RESISTANT
	Coefficient of linear thermal expansion	UNI EN ISO 10545-8	Method of evidence available	≤ 7 MK-1
	Frost resistance	UNI EN ISO 10545-12	They must not be damaged	RESISTANT
	Lead and cadmium release	UNI EN ISO 10545-15	Method of evidence available	Pb <0,1 Cd < 0,01
	Resistance to surface abrasion – Glazed tiles	UNI EN ISO 10545-7	Declared by the manufacturer	CATALOGUE
	Determination of scratch hardness of surface Mohs scale	UNI EN 101:1992	Glazed tiles: Mohs hardness ≥5	6/7
	Reaction for fire	decisione 96/603/CE	Method of evidence available	Fire proof class A1fl-A1
<b>CHEMICAL PROPERTIES</b>	Resistance to household chemicals	UNI EN ISO 10545-13	GB minimo	GA
	Resistance low and high concentration of acid and alkali		They must not present appreciable signs of chemical attack	GLA/GHA
	Stain Resistance	UNI EN ISO 10545-14	Class 3 min.	Class 5
	Light fastness	DIN 51094	Rating of colour change after exposure in ultraviolet-light	COMPLIANT
	Variation of colour tones		Stonization- V	V2
	Impact resistance	UNI EN ISO 10545-5	Measurement of the bounce height of a steel ball	RESISTANT

<b>SAFETY*</b>	Friction coefficient Slipperiness	DCOF BOT 3000	Where requested	
		DIN EN 16165 annex B (ex 51130)	Where requested	R10
	Slip classification	BS 7976 Pendulum	PTV 45≥36	
		DIN EN 16165 annex A (ex 51097)	Where requested	A+B
		AS/NZS 4586 Pendolo Australiano	Where requested	

\*Test methods, requirements and classifications differ from country to country, according to the national regulations. The expected value of slippage resistance of products by Industrie OPERA GROUP srl may vary depending on the production batch. Specific documents are available upon request.

<b>CERTIFICATION</b>		Where requested Classement CSTB
		Level - A
		They absolutely do not contain Volatile Organic Compounds (VOC) They do not issue anything and exceed the criteria for the A + ranking
	<b>MADE IN ITALY</b>	All'Opera Group srl tiles are produced in Italy. Who buys Opera Group ceramics has the security that are produced with technologies that respect the environment, using raw materials excellent and safe, guaranteeing the best working conditions for safety and the environment in which we live.

**OPERA**  
GROUP S.r.l.  
Via Martinella, 74 - 41053 Maranello (MO)  
C.F./P.IVA 02860070362  
Tel. ++39 0536 934811 Fax ++39 0536 934820

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DIRECTION

**Process characteristics**

The series is made of porcelain stoneware by dry pressing of a mix of atomized mixtures obtained from precious natural raw materials. The obtained support is subsequently baked at over 1200°C, a temperature necessary to reach the sinterification necessary to make the product frostproof, non-absorbent and resistant to chemical attack.

**CE marking** : In compliance with Directive 89/106/CE on Construction Products, the CE mark is affixed as a sign of compliance with the essential safety requirements of the product; the CE marking is a necessary condition for placing a product on the European Market.

**Doc. specifications**

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