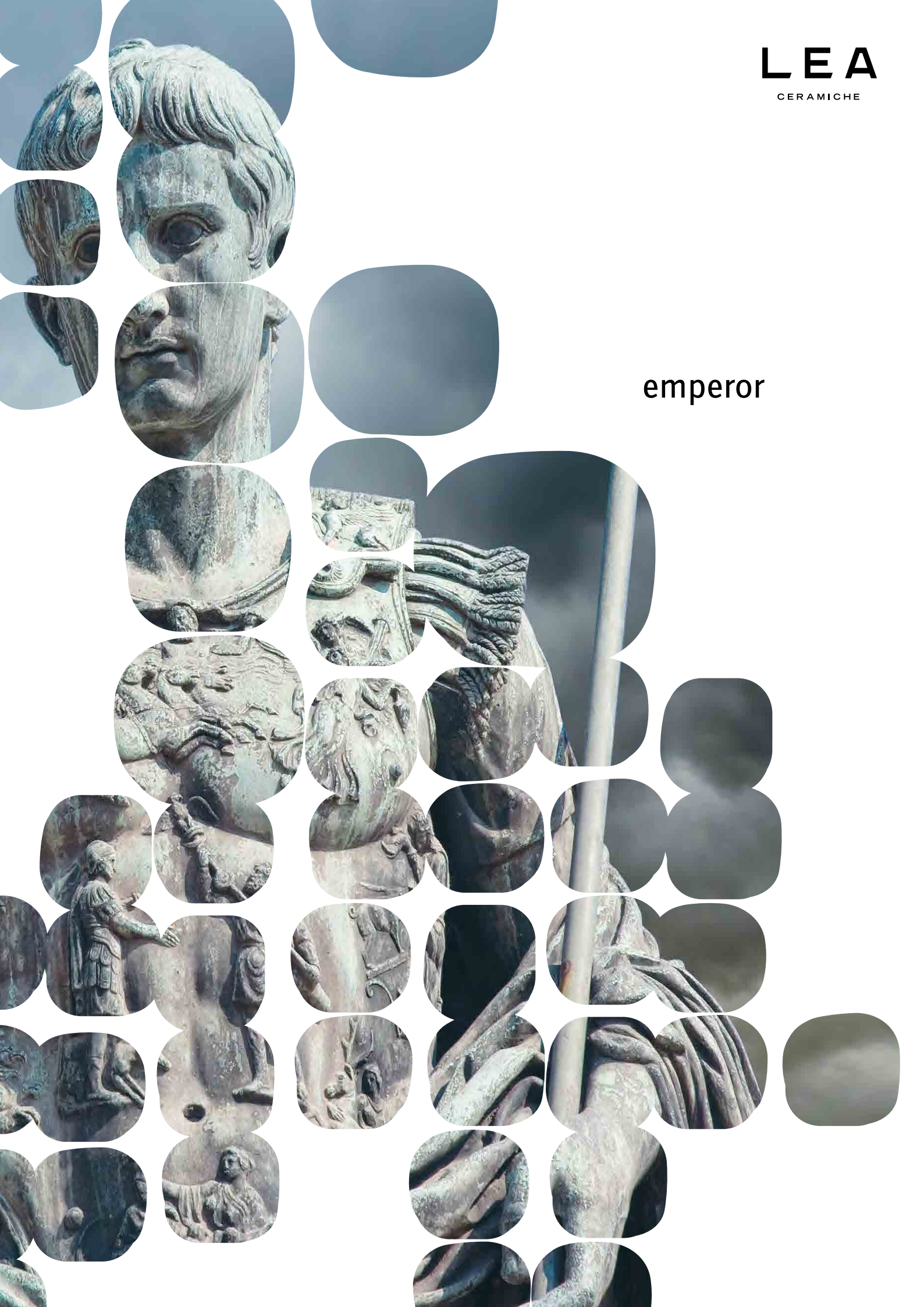


emperor





emperor



The greatness of the most glorious leaders of the past. The sumptuousness of the most beautiful stones of the classical tradition. The strong attitude of the commanders.



An impressive collection that
will soon be a classic.
Warm tones, strong veining and
subtle elegance.

A unique mix for the first collection
of Lea made in the US.
Thought to leave a mark.



napoleon 45,2x45,2cm 17.8x17.8"



napoleon 30x30cm 11.8x11.8"
napoleon mosaico 25 30x30cm 11.8x11.8"

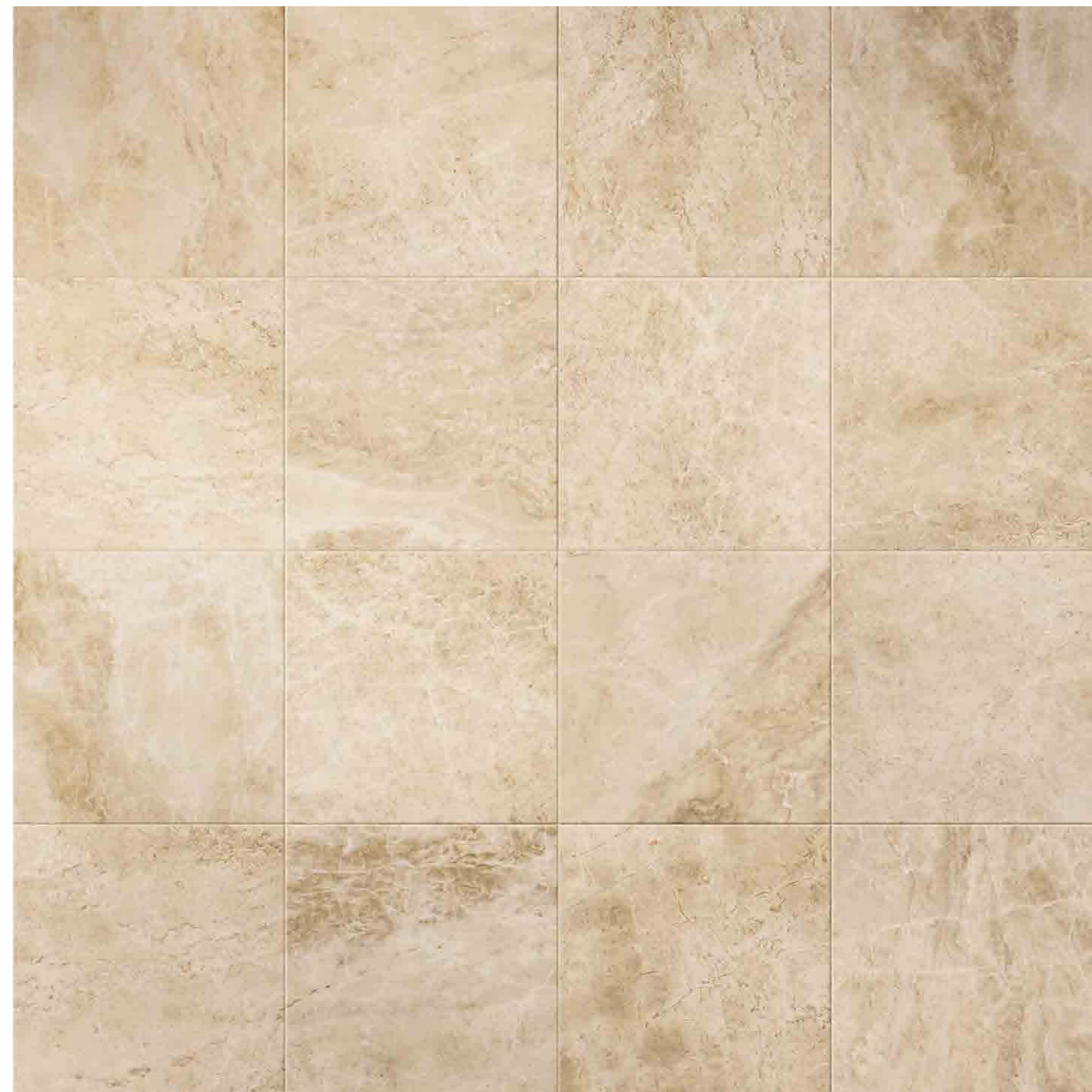




alexander 45,2x45,2cm 17.8x17.8"



caesar 45,2x45,2cm 17.8x17.8"
caesar mosaico 25 30x30cm 11.8x11.8"



caesar



30x60,4cm 11.8x23.8"
 nat. (thickness 10mm)

LGVEM10



45,2x45,2cm 17.8x17.8"
 nat. (thickness 9mm)

LGTEM10



30x30cm 11.8x11.8"
 nat. (thickness 8mm)

LGCEM10



MOSAICO 25
 30x30cm 11.8x11.8"

LG9EM10

alexander



30x60,4cm 11.8x23.8"
 nat. (thickness 10mm)

LGVEM00



45,2x45,2cm 17.8x17.8"
 nat. (thickness 9mm)

LGTEM00



30x30cm 11.8x11.8"
 nat. (thickness 8mm)

LGCEM00



MOSAICO 25
 30x30cm 11.8x11.8"

LG9EM00

napoleon



30x60,4cm 11.8x23.8"
 nat. (thickness 10mm)

LGVEM20



45,2x45,2cm 17.8x17.8"
 nat. (thickness 9mm)

LGTEM20



30x30cm 11.8x11.8"
 nat. (thickness 8mm)

LGCEM20



MOSAICO 25
 30x30cm 11.8x11.8"

LG9EM20

special pieces
 pezzi speciali






















BULLNOSE
 8x30cm 3.1x11.8"
 caesar
 alexander
 napoleon

LG9EM10
 LG9EM00
 LG9EM20

EMPEROR
GLAZED (GL)
PORCELAIN TILES (CLASS P1)

USES
IMPIEGHI

TECHNICAL CHARACTERISTICS	test method astm	required values ansi 137.1	values		
					hotels alberghi
					public spaces locali pubblici
 water absorption	astm c373	≤ 0.5%	compliant		housing abitazioni
					airports aeroporti
 breaking strength	astm c648	≥ 250 pounds	compliant		bar - restaurants bar - ristoranti
					malls centri commerciali
 resistance to abrasion wear	astm c1027 (PEI method)	not required	5		shops negozi
					train stations stazioni
 linear thermal expansion	astm c372	not required	$\alpha \leq 8 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$ $\alpha \leq 4.4 \times 10^{-6} \text{ } ^\circ\text{F}^{-1}$		
 thermal shock resistance	astm c484	no sample must show visible signs	resistant		
 chemical resistance	astm c650	not required	resistant		
 frost resistance	astm c1026	not required	resistant		
 bond resistance	astm c482	≥ 50 PSI	compliant		
 stain resistance	CTI 81 D	not required	resistant		
 slip resistance	astm c1028	COF < 0.50 questionable 0.50 ≤ COF < 0.60 conditionally slip resistant COF ≥ 0.60 slip resistant	dry-neolite COF ≥ 0.60 wet-neolite COF ≥ 0.60		
 dimensions	warpage edge	astm c485	± 0.75% or max ± 0.09 inch	compliant	
	warpage diagonal	astm c485	± 0.50% or max ± 0.08 inch	compliant	
	nominal dimensions	astm c499	± 3.0% of nominal dimensions	± 1.5%	
	calber range	astm c499	± 0.50% or max ± 0.08 inch	compliant	
	thickness	astm c499	≤ 0.040 inch	≤ 0.030 inch	
	wedging	astm c502	± 0.50% or max ± 0.08 inch	compliant	

PACKING
IMBALLAGGI

article	carton			pallet		
	pcs.	sf	kg	cts.	sf	kg
filed tile 30x60,4	7	13,89	29,3	32	444,3	937,6
filed tile 45,2x45,2	7	15,61	31,0	32	499,4	992,0
filed tile 30x30	12	11,84	20,9	64	757,8	1337,6
mosaico 25 30x30	4	3,88	7,5	90	348,8	675,0
bullnose 8x30	22	5,70	9,9	-	-	-

LEA CERAMICHE 100% ECO FRIENDLY



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% RECYCLING OF THE FIRED TILES (used as inert supports)

all the waste-fired tiles generated by the process are recycled from the building industry as inert supports for road subsoils and foundations, reducing the use of new natural resources.

100% RECYCLING OF NON CERAMIC WASTE

is differentiated and recycled in other production cycles.



100% WATER RECYCLING

the water used in the production process is 100% recycled. The water demand is reduced by about 60% by this mean. No industrial water is discharged in the ecosystem.



LOW EMISSION IN THE ATMOSPHERE

the high quality of the technology used keeps low emissions in the atmosphere.



METHANE CONSUMPTION ARE HIGHLY REDUCED

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



LEA CERAMICHE PACKING MATERIAL IS 100% RECYCLABLE

(carton boxes, plastic packaging materials, wooden pallets, straps, etc..).

LEED CREDITS

● RECYCLED CONTENT, Sections MR Credit 4.1 and MR Credit 4.2 - (2 LEED points)

Emperor is produced with 40% of pre-consumer recycled materials.

● REGIONAL MATERIALS, MR Credit 5.2 - (2 LEED points)

are granted if the use of local raw material is equal to 20% of the total value of the raw materials)

- These Credits are applicable for buildings constructed within 500 miles (804,5 km) from the production site of Lawrenceburg, Kentucky - USA.
- Leed: Regional materials credits.
As a product manufactured with regional raw materials, Emperor will contribute to get these credits on all job-sites located within 500 miles from the production plant (Lawrenceburg, KY U.S.A.)

● HEAT ISLAND EFFECT (Non roof), SS Credit 7.1 - (1 LEED point)

Emperor doesn't contribute to change the energy balance of the environments where installed. It doesn't produce any Urban Heat Island Effect, thanks to its very good physical properties Solar Reflectance Index SRI ≥ 29 .

● OPTIMIZE ENERGY PERFORMANCE, EA Credit 1 - (1-10 LEED points)

Thermal conductivity λ of Emperor (Porcelain tile) is 0.75 Btu/ft h °F (1.3 Watt/m°K or 1.1 Kcal/m h °C). For this reason it's particularly indicated for heating floors systems and ventilated curtain walls.

● LOW EMITTING MATERIALS, EQ Credit 4.2 - (1 LEED point)

No traces of VOC (Volatile Organic Compounds) are present in Emperor tiles.

These environmental standards guarantee excellence in terms of:

- **safeguard** of the environment
- **continuous** improvement of the environmental performances of Emperor and of the manufacturing sites
- **healthcare** of Lea Ceramiche's workers and customers



Lea Ceramiche

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.



CERTIFICATIONS
CERTIFICAZIONI



leed*



made in usa



leed**



certified porcelain tile

* LEED

Lea Ceramiche, tramite la holding Panariagroup Industrie Ceramiche S.p.A., è socio ordinario del Green Building Council e del GBC Italia. Through Panariagroup Industrie Ceramiche S.p.A., Lea Ceramiche is an ordinary member of the Green Building Council and the GBC Italia. Par le biais de Panariagroup Industrie Ceramiche S.p.A., Lea Ceramiche est membre ordinaire du Green Building Council et du GBC Italia. Lea Ceramiche, durch die Holding Panariagroup Industrie Ceramiche S.p.A., ist ordentliches Mitglied von dem Green Building Council und dem GBC Italien. Lea Ceramiche, a través del holding Panariagroup Industrie Ceramiche S.p.A., es miembro afiliado del Consejo Construcción Verde y del Consejo Construcción Verde de Italia.

** LEED

Il contenuto di materiale riciclato "pre-consumo" della serie Emperor è del 40%, come certificato da ente esterno qualificato (certificato disponibile sul sito www.ceramichelea.com). Emperor is produced with 40% of pre-consumer materials, as certified by a qualified external company (certificate available on the website www.ceramichelea.com).



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