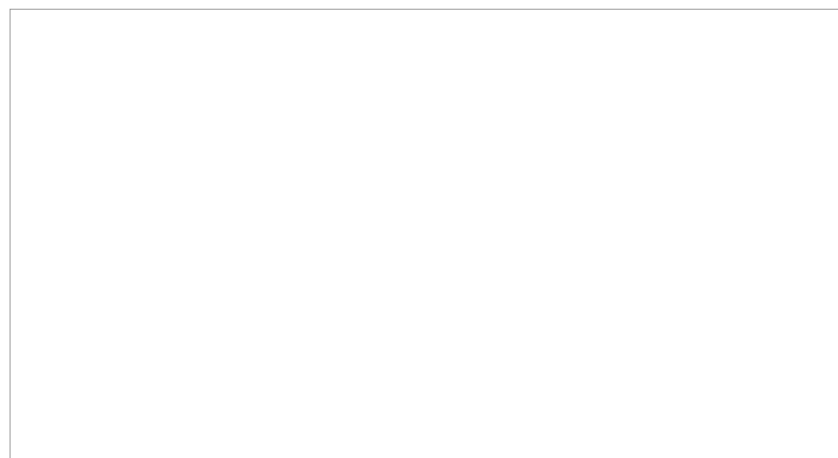


MARCOPOLO TILES

# MARS STONE





# MARS STONE

MARCOPOLO TILES

[www.marcopolotiles.com](http://www.marcopolotiles.com)

  
Marco Polo®

# MARCOPOLO CERAMIC TILES

## THE DESIGN COMES FROM ITALY

### The 3+1 Deep Penetration Technology—a worldwide initiation

"3" hereby refers to the original deep penetration technology for Marcopolo Tiles, and also to the representation of three kinds of natural stone surfaces and veins, respectively, the natural surface, the marble surface and the skin surface.

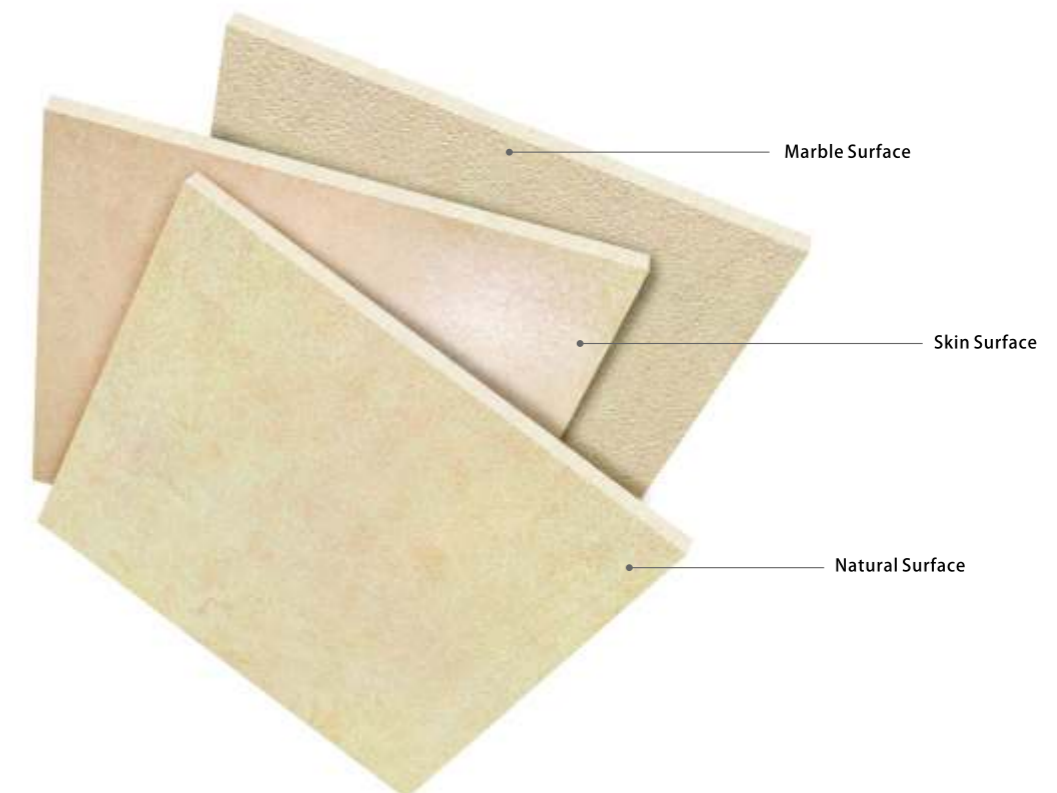
"1" hereby stands for the identical color system, genuinely restoring the trio-surface natural texture of one stone, with external appearance tallying with its internal quality. It represents the total combination of stone materials in terms of color, texture and quality, thus genuinely interpreting the supremacy of "the superior stone with three different surfaces" .

### Solving 3 knotty technical problems of the unglazed porcelain tiles

**Genuine Stone Materials:** Mars stone quartz mineral powder is added in the manufacturing process, highly improving its abrasion resistance with excellent durability, so its hardness reaches the 5th degree in terms of Mohs' hardness compared with the natural stones (gaining ascendancy over the best Granite in terms of hardness), and it enjoys a 50-year service life under the normal using environment.

**"3+1":** The natural surface, the marble surface and the skin surface can be seen in the same tile. The colors are harmoniously uniform when viewed in the long distance but the veins are in various patterns when viewed at hand. It seems to be generated from nature, internally and externally, reaching the supremacy of the natural stone, exhibiting the genuine, natural and colorful texture and decorative effect by cracking a knotty problem that the external and internal of the imitation ceramic tiles lacks consistency.

**Compound technology:** Mars stone genuinely produces the natural stone effect, thus highly cited as the genuine stone material by applying the unique "3+1" deep penetration technology and adopting the compound technology to overcome the knotty problem of rough surface and the big grains has difficulty in deep coloring basing on the deep analysis of the formation of the natural Mars stone.



## The 3-surfaces porcelain stone highly features the quality of the natural stone

Mars Stone, as its name indicates, also called sun stone or moon stone, has patterns of the sun, the moon, stars and clouds, etc. These stones have clear patterns, attractive colors and elegant shapes as well as an abstruse artistic conception, so they attract rare stone enthusiasts.

The perfect integration of art and nature generates a series of Mars Stone. Marcopolo Tiles joins hands with the top-grade Italian ceramic tiles research institutions to initiate the “3+1” deep penetration technology transform the smooth surface and structures of stone materials into technology products with the leading, transforming the stone materials into the scientific products by changing the harmonious surface texture with the structures, thus genuinely bringing into harmony the identical color system and three different surface textures, integrating the natural surface, rough surface and polished surface into the same tile, elegantly highlighting the natural and genuine combination of the tile with “three different surfaces” and highlighting the essence and features of the natural stone materials with the consistent quality and veins to radiate the magnificence and noble pure natural quality—as the initiative ceramic tile making its debut into the world with the quality of the natural original stone.

Mars Stone highly endowed with the advantages of stone materials will integrate the current world’s most fashionable and cutting edge stone products into a complete range, thus perfectly and delicately representing the pure natural beauty of the stone materials in terms of stone quality as a typical noble model showcasing the essence and the artistic quality of the stone materials in the field of ceramic tiles.



## Mars stone with 3 different surfaces reaches to be exhaustive

Mars Stones have three different kinds of stone textures, respectively the natural surface, marble surface and skin surface. They can be cut, combined and matched at discretion, producing the effect of endless space and creating the spatial environment of the atmosphere and the pure nature...



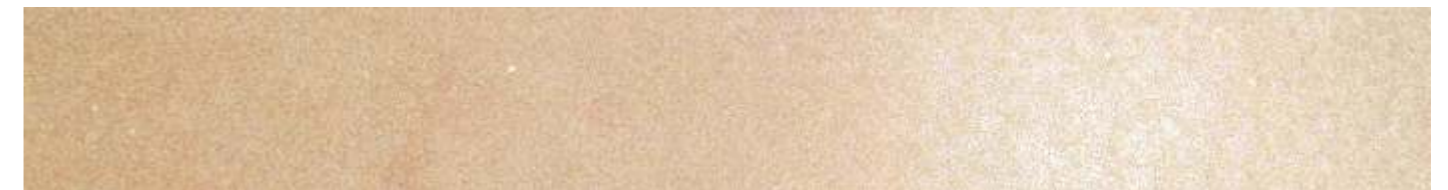
### Natural Surface

It has the natural surface of the natural Mars stones without processing after firing.



### Marble Surface

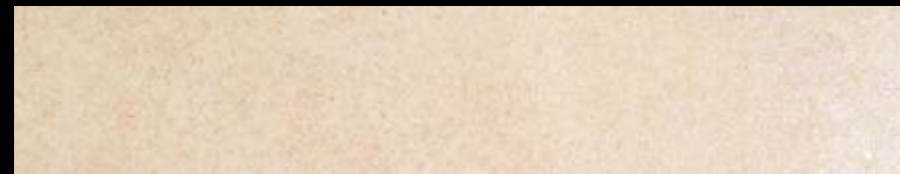
Its surface coming from manufacturing tiles subjected to mechanical processing consisting of irregularly removing a layer of material after pressing but before firing in order to obtain a surface like absolutely pure natural stone(non-slip),with slight unrepeatable differences between one tile and another.



### Skin Surface

Its surface coming from manufacturing pressed tiles subjected to strong intensity mechanical processing, with significant removal of material.

## COLOURS



Nebula White



Golden Sunlight



Moon Brown



Mars Grey

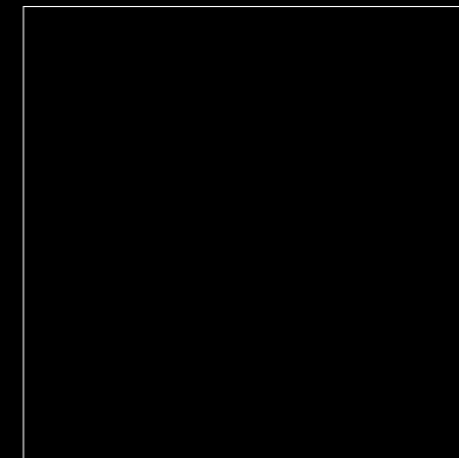


Universe Silver



Universe Black

## FORMATS



600×600mm  
24"×24"

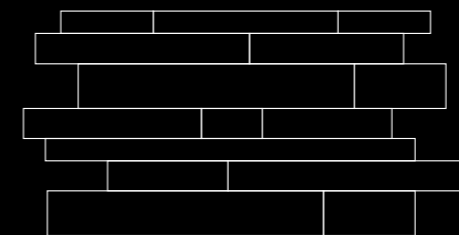


300×600mm  
12"×24"

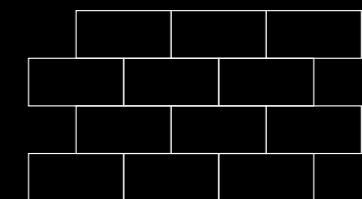
Full cutting and interval paving with different thickness



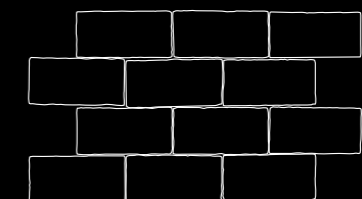
300×600mm  
12"×24"



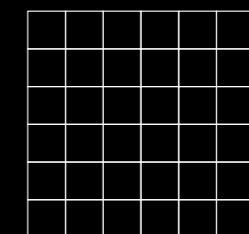
300×600mm  
12"×24"



290×440mm  
11.6"×17.6"



290×440mm  
11.6"×17.6"

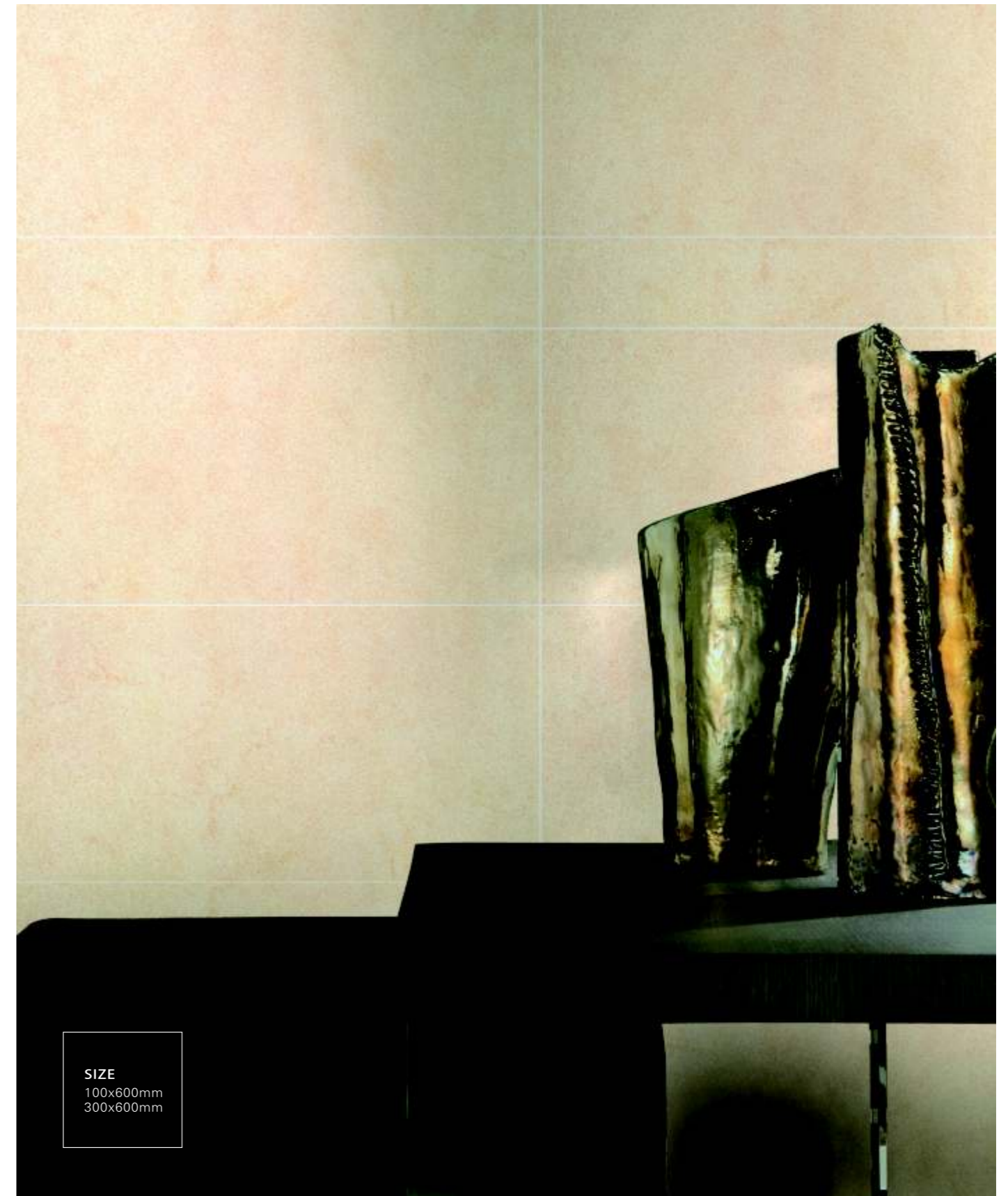


300×300mm  
12"×12"

It was quarried in the Apennines around Florence with elegant and colorful Nebula White, containing limestone cement sandstone with a very high percentage of quartzes, thus called Nebula White Stone and it is historically and architecturally tied. In nature, it takes shape with the transformation of the geological structure in the changeable natural environment over 1000 years. It is fairly uniform in color with very light veins accentuated by the presence of quartz crystals, thus producing the strong decorative effect.

## Nebula White

ZZ6872



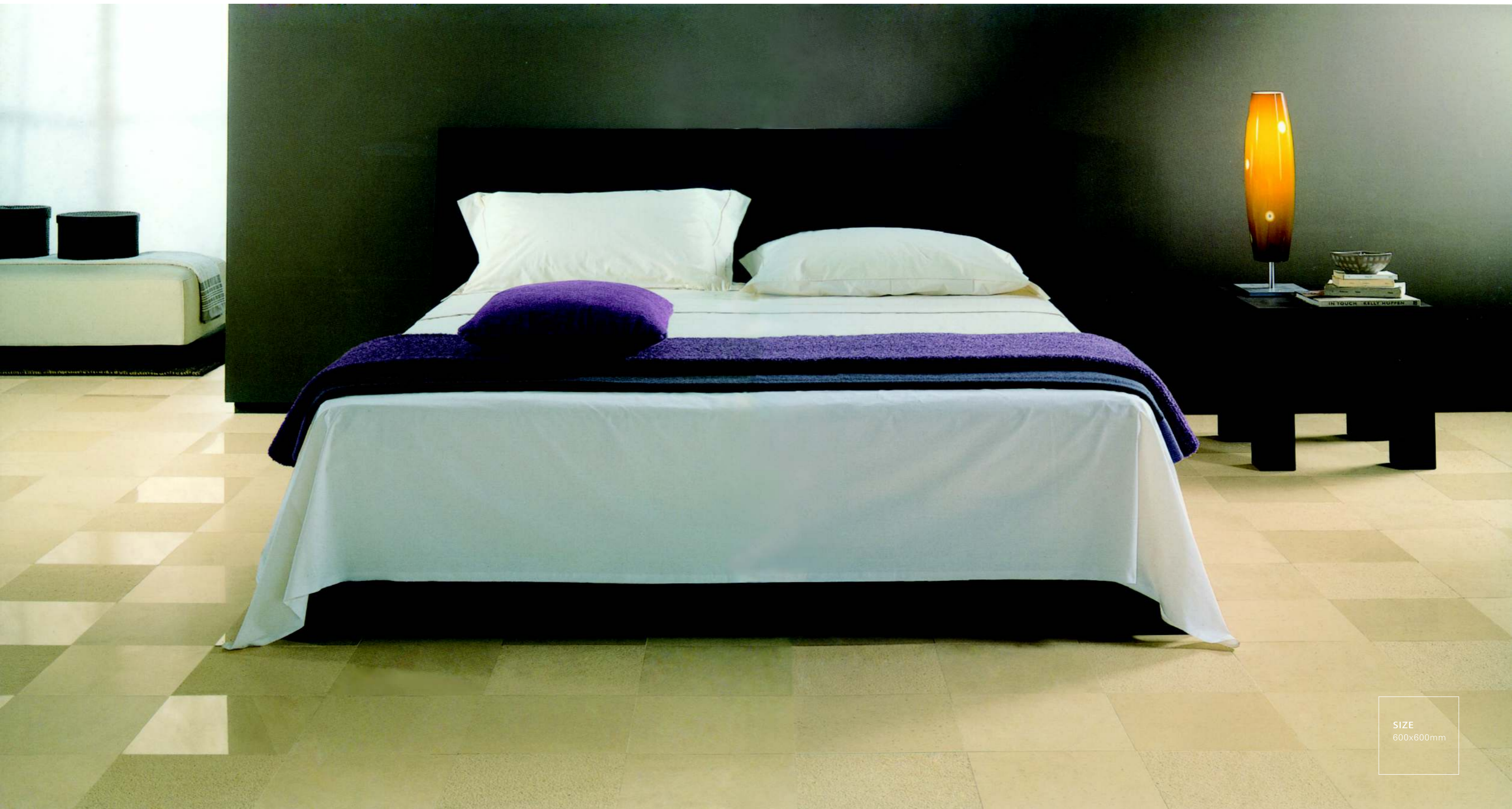
SIZE  
100x600mm  
300x600mm



SIZE  
300x600mm  
600x600mm  
290x440mm



SIZE  
300x600mm  
300x300mm



SIZE  
600x600mm

It is also called Pearl yellow sandstone consisting of small size grains of golden yellow color. The stone, quarried in Tuscany in Italy, taking on the light golden yellow color, seemingly as warm and elegant as the sunlight, delicate and luminous with irregular veins. Tuscany is the birthplace of the Renaissance with the famous art heritages including architecture, paintings and sculptures which are collected and treasured by many museums and is also the birthplace of Leonardo Da Vinci, Michelangelo and Dante. It is also famous for its brewing and the stone materials.

## Golden Sunlight

ZZ6873



SIZE  
300x600mm  
600x600mm



SIZE  
300x600mm  
600x600mm

Originating from the quarries of Maine and New England, it became well-known because of its widespread use for covering buildings at the turn of the 19th/20th centuries. It has now been rediscovered in architecture but is hard to find because all the known quarries have been closed. It has a ruddy brown color with thin darker veins. The concavo-convex marble surface with the veins of the lunar surface highlights the natural mysterious and elegance.

## Moon Brown

ZZ6877





SIZE  
600x600mm

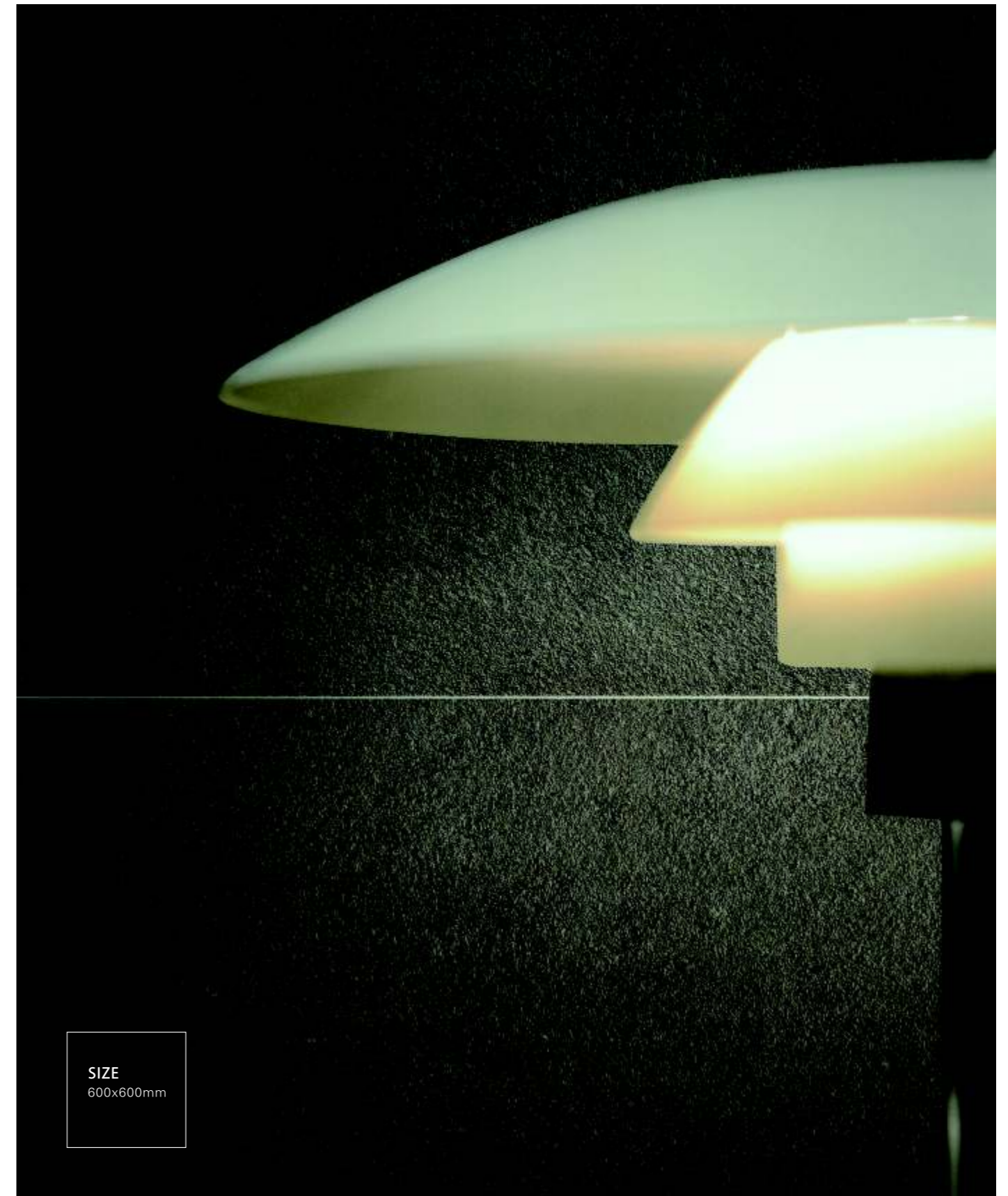


SIZE  
600x600mm

Universe Grey Stone is also called Carrara Stone or Metamorphic sandstone of the Tertiary period. Consisting of micro-grain quartz and carbonate, it originates from Carrara Hill in the Apuan Alps, where the precious marble stones are found in large quantities. The stones were delicately selected by Michelangelo from here for the famous sculpture entitled as "David". Mars Grey Stone is a rare and precious stone found in this place and has a dark grey color tending to metal. It highly represents the vast expanse of the universe with the clouds and glittering stars with the post-modern decorative effect.

## Mars Grey

ZZ6876



SIZE  
600x600mm



SIZE  
300x600mm  
600x600mm

It is also referred to as "Cardoso", or Metamorphic sandstone of the Tertiary period, which dated back to the Jurassic Period. In nature it is found in various colors with harmonious nuances and slight calcite veins. Of French origin, the historical quarries are in Bourgogne. A legend narrates that it is also called as universe stone in ancient time because the vein of the stone were caused over several centuries by the falls of mysterious aerolites, which were thus formed with the geological karst.

## Universe silver

ZZ6879



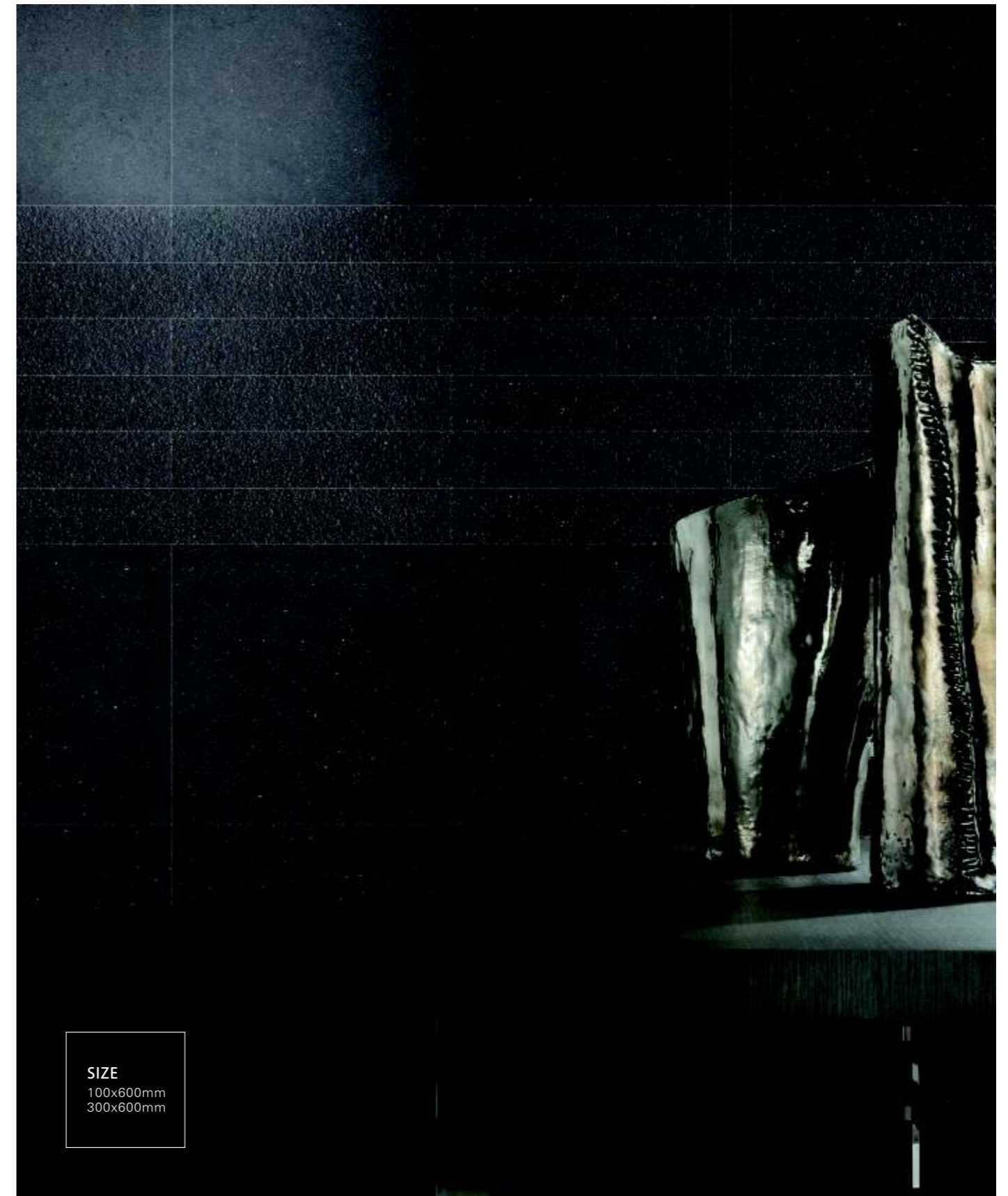


SIZE  
290x440mm  
600x600mm

Universe Black is processed from the precious stone materials in Egypt Egyptian gold sand stone to add luster to its veins. Egypt is a country rich in stone resources, sometimes even highly regarded as the land of stone materials as the land was covered with sea water in the Cretaceous Period. Egypt is famous for its sandstone minerals and the 4000-year-old King's statue unearthed near the pyramids of the ancient Egypt was carved out of the Egyptian gold sand stone. As it was rather difficult to exploit with the lower deposit, the ancient Egyptian gold sand stones are the precious ones out of all stone materials. The jade-white granules glittered brightly out of the Egyptian sand stones look as if a huge and elegant stellar map were spread in the vast expanse of the universe.

## Universe Black

ZZ6870



SIZE  
100x600mm  
300x600mm



SIZE  
300x600mm  
600x600mm



SIZE  
100x600mm  
300x600mm

## Nebula White



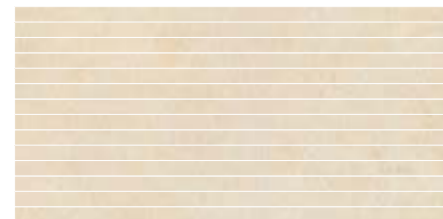
**ZZ6872**  
600×600mm - 24"×24"



**ZZ6872M**  
600×600mm - 24"×24"



**ZZ6872P • Lappato**  
600×600mm - 24"×24"



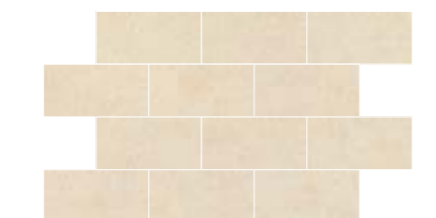
**ZZ6872QQ038P**  
300×600mm - 12"×24"



**ZZ6872BS3HP**  
300×600mm - 12"×24"



**ZZ6872BS2**  
300×600mm - 12"×24"



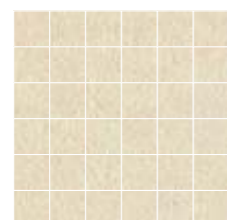
**ZZ6872QQ017A**  
290×440mm - 11.6"×17.6"



**ZZ6872QQ017B**  
290×440mm - 11.6"×17.6"



**ZZ6872QQS**  
300×300mm - 12"×12"



**ZZ6872MQQS**  
300×300mm - 12"×12"



**ZZ6872QQSHP**  
300×300mm - 12"×12"

SIZE 600×600mm  
4PCS/CTN 33.5KG/CTN

SIZE 300×600mm  
8PCS/CTN 33.5KG/CTN



## Golden Sunlight



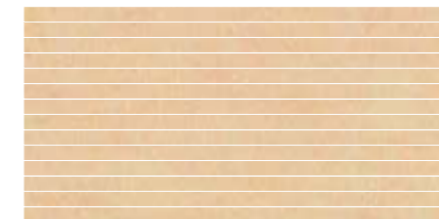
**ZZ6873**  
600×600mm - 24"×24"



**ZZ6873M**  
600×600mm - 24"×24"



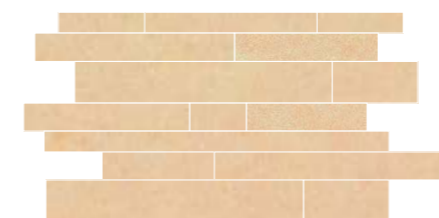
**ZZ6873P • Lappato**  
600×600mm - 24"×24"



**ZZ6873QQ038P**  
300×600mm - 12"×24"



**ZZ6873BS3HP**  
300×600mm - 12"×24"



**ZZ6873BS2**  
300×600mm - 12"×24"



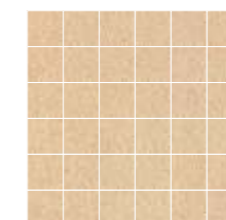
**ZZ6873QQ017A**  
290×440mm - 11.6"×17.6"



**ZZ6873QQ017B**  
290×440mm - 11.6"×17.6"



**ZZ6873QQS**  
300×300mm - 12"×12"



**ZZ6873MQQS**  
300×300mm - 12"×12"



**ZZ6873QQSHP**  
300×300mm - 12"×12"

SIZE 600×600mm  
4PCS/CTN 33.5KG/CTN

SIZE 300×600mm  
8PCS/CTN 33.5KG/CTN



## Moon Brown



**ZZ6877**  
600×600mm - 24"×24"



**ZZ6877M**  
600×600mm - 24"×24"



**ZZ6877P • Lappato**  
600×600mm - 24"×24"



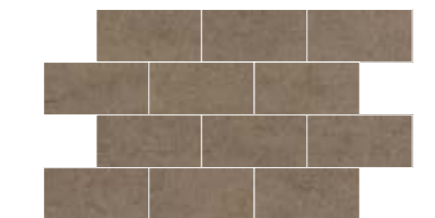
**ZZ6877QQ038P**  
300×600mm - 12"×24"



**ZZ6877BS3HP**  
300×600mm - 12"×24"



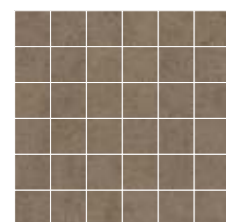
**ZZ6877BS2**  
300×600mm - 12"×24"



**ZZ6877QQ017A**  
290×440mm - 11.6"×17.6"



**ZZ6877QQ017B**  
290×440mm - 11.6"×17.6"



**ZZ6877QQS**  
300×300mm - 12"×12"



**ZZ6877MQQS**  
300×300mm - 12"×12"



**ZZ6877QQSHP**  
300×300mm - 12"×12"

SIZE 600×600mm  
4PCS/CTN 33.5KG/CTN

SIZE 300×600mm  
8PCS/CTN 33.5KG/CTN



## Mars Grey



**ZZ6876**  
600×600mm - 24"×24"



**ZZ6876M**  
600×600mm - 24"×24"



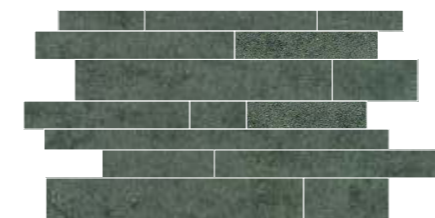
**ZZ6876P • Lappato**  
600×600mm - 24"×24"



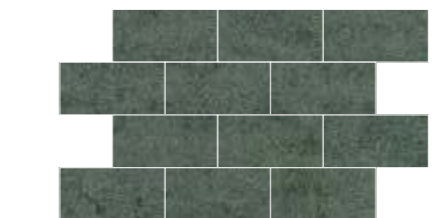
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300×600mm - 12"×24"



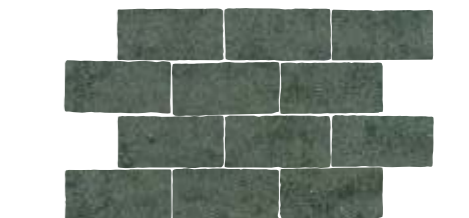
**ZZ6876BS3HP**  
300×600mm - 12"×24"



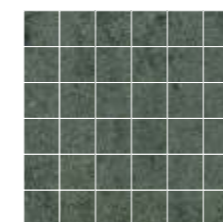
**ZZ6876BS2**  
300×600mm - 12"×24"



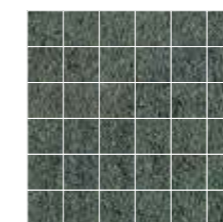
**ZZ6876QQ017A**  
290×440mm - 11.6"×17.6"



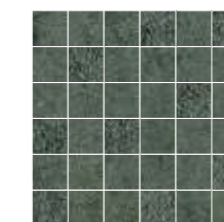
**ZZ6876QQ017B**  
290×440mm - 11.6"×17.6"



**ZZ6876QQS**  
300×300mm - 12"×12"



**ZZ6876MQQS**  
300×300mm - 12"×12"



**ZZ6876QQSHP**  
300×300mm - 12"×12"

SIZE 600×600mm  
4PCS/CTN 33.5KG/CTN

SIZE 300×600mm  
8PCS/CTN 33.5KG/CTN



## Universe silver



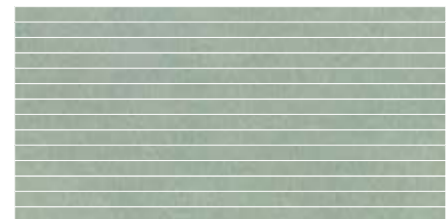
**ZZ6879**  
600×600mm - 24"×24"



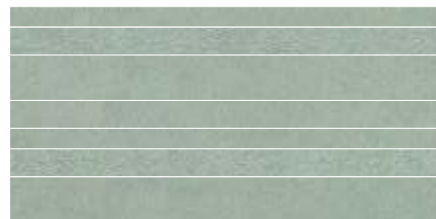
**ZZ6879M**  
600×600mm - 24"×24"



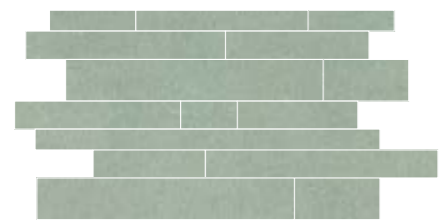
**ZZ6879P • Lappato**  
600×600mm - 24"×24"



**ZZ6872QQ038P**  
300×600mm - 12"×24"



**ZZ6879BS3HP**  
300×600mm - 12"×24"



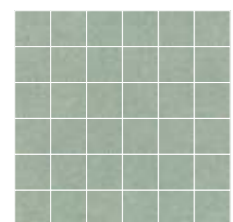
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300×600mm - 12"×24"



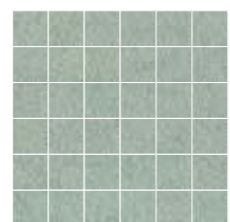
**ZZ6879QQ017A**  
290×440mm - 11.6"×17.6"



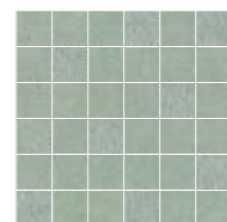
**ZZ6879QQ017B**  
290×440mm - 11.6"×17.6"



**ZZ6879QQS**  
300×300mm - 12"×12"



**ZZ6879MQQS**  
300×300mm - 12"×12"



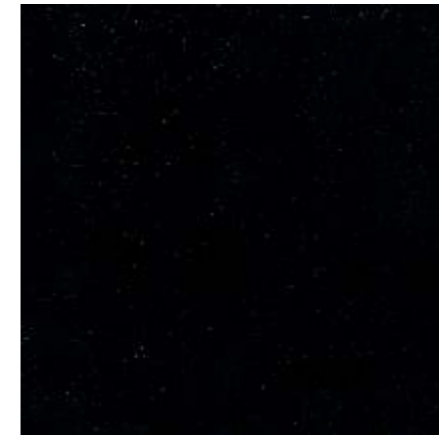
**ZZ6879QQSHP**  
300×300mm - 12"×12"

SIZE 600×600mm  
4PCS/CTN 33.5KG/CTN

SIZE 300×600mm  
8PCS/CTN 33.5KG/CTN



## Universe Black



**ZZ6870**  
600×600mm - 24"×24"



**ZZ6870M**  
600×600mm - 24"×24"



**ZZ6870P • Lappato**  
600×600mm - 24"×24"



**ZZ6870QQ038P**  
300×600mm - 12"×24"



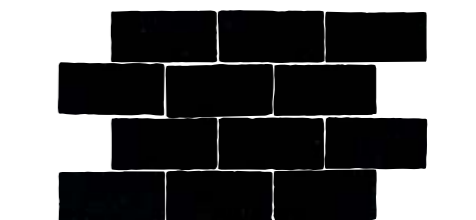
**ZZ6870BS3HP**  
300×600mm - 12"×24"



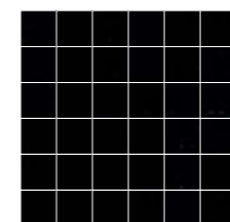
**ZZ6870BS2**  
300×600mm - 12"×24"



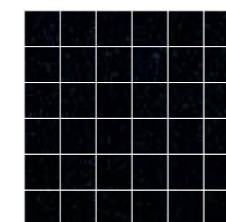
**ZZ6870QQ017A**  
290×440mm - 11.6"×17.6"



**ZZ6870QQ017B**  
290×440mm - 11.6"×17.6"



**ZZ6870QQS**  
300×300mm - 12"×12"



**ZZ6870MQQS**  
300×300mm - 12"×12"



**ZZ6870QQSHP**  
300×300mm - 12"×12"

SIZE 600×600mm  
4PCS/CTN 33.5KG/CTN

SIZE 300×600mm  
8PCS/CTN 33.5KG/CTN



60X120 / 24"x48" - 12.5 mm    30X120 / 12"x48" - 12.5 mm    60X60 / 24"x24" - 10.2 mm 30X60 / 12"x24" - 10.2 mm    15X60 / 6"x24" - 10.2 mm    30X30 / 12"x12" - 10.2 mm Technical features - compliant with standards EN 14411 (ISO 13006) annex G group Bla							
MARCOPOLO	Technical features	Norms	Required standards			MATT	LAPPATO
Regularly Characteristics	Length and width	ISO 10545-2	± 0,6%* ± 0,5%**			± 0,1% ± 0,1%	± 0,1% ± 0,1%
	Thickness		± 5,0%			Suitable for	Suitable for
	Straightness of sides		± 0,5%			± 0,1%	± 0,1%
	Rectangularity		± 0,6%			± 0,1%	± 0,1%
	Surface flatness		c.c. ± 0,5%	Not applicable to "strong" structures	± 0,3%		± 0,2%
			e.c. ± 0,5%		± 0,3%		± 0,2%
w ± 0,5%	± 0,3%		± 0,2%				
Structural Characteristics	Water absorption	ISO 10545-3	≤ 0,5%			≤ 0,4%	≤ 0,4%
Bulk mechanical Characteristics	Breaking strength	ISO 10545-4	S ≥ 1300 N			S ≥ 2000 N	S ≥ 2000 N
	Modulus of rupture		R ≥ 35 N/mm2			R ≥ 36 N/mm2	R ≥ 36 N/mm2
Surface mechanical characteristics	Mohs hardness	EN 101	MATT. ≥ 6	LAP. NR	STR. ≥ 6	Suitable for	5
	Resistance to deep abrasion	ISO 10545-6	≤ 175 mm3			≤ 150 mm3	≤ 150 mm3
Thermal and hygrometric Characteristics	Coefficient of thermal linear expansion	ISO 10545-8	Test method available			≤ 7 MK-1	≤ 7 MK-1
	Thermal shock resistance	ISO 10545-9	Test method available			RESISTANT	RESISTANT
	Resistance to frost	ISO 10545-12	Required			RESISTANT	RESISTANT
Safety Characteristics	Dynamic friction coefficient	METODO B.C.R.A.	D.M.I. Giugno 1989 n. 236 (μ > 0,40)			> 0,40	> 0,40
	Static coefficient of friction	ASTM C 1028 (S.C.O.F.)	Slip Resistant (≥ 0,60)			≥ 0,60 DRY ≥ 0,50 WET	≥ 0,60 DRY ≤ 0,50 WET
	Non-slip classification	DIN 51130	Basing on the environment or on the working area			R9	N.C.
Chemical characteristics	Resistance to household chemicals and swimming pool salts	ISO 10545-13	Class UB min.			UA	UA
	Resistance to low concentrations of acids and alkalis		Manufacturer to state classification			ULA	ULA
	Resistance to high concentrations of acids and alkalis		Test method available			UHA	UHA
	Resistance to staining	ISO 10545-14	Test method available			5	5

\*The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size.  
 \*\*The deviation, in percent, of the average size for each tile (2 or 4 sides) from the average size of the 10 test specimens (20 or 40sides).  
 c. c. Centre curvature, related to diagonal calculated from the work sizes.  
 e. c. Edge curvature, related to the corresponding work sizes.  
 w Warpage, related to diagonal calculated from the work sizes.

### PACKING LIST(\*Available for all porcelain tiles)

ITEM	SIZE(CM)	PCS/BOX	KGS/BOX (G.W.)	PLT(box/pallet) 80x120cm	PLT(box/pallet) 105x105cm	21.5TON/CNT	24TON/CNT	28TON/CNT	MEMO
E-STONE	80x80x1,2	3	53,5	24	24	440	480		
	60x60x1	4	33,5	32	32	608	704	800	
				32	32(upper pallet) 64(bottom pallet)	896	1024	1184	
	45x45x1	5	23	64	64	896	1024	1184	
	30x60x1	8	33,5	32	32	608	704	800	
	30x30x1	13	27	40	46	760	860	980	
	15x60x1	11	23	48	48	912	1008	1152	
	10x60x1	16	22,5	48	48	912	1008	1152	
	5x60x1	33	23	48	48	912	1008	1152	
	7,5x60x1	22	22,5	48	48	912	1008	1152	
	30x30x1	13	25	30	36	760	860	980	QQ # FULL CUT
	28,6x37,5x1	11	19	36	48	912	1008	1152	QQ2 # FULL CUT
	30x30x1	13	27	40	46	760	860	980	BQ#HALF CUT
	30x60x1	8	32	32	32	608	704	800	BQ#HALF CUT
	30x83x1	8	30	30	30	608	704	800	

## How to maintain?

Daily cleaning can use the soft fabric that dipped in the mixture of a little detergent such as the soap, washing powder, washing liquor with some water; If there is some light nick, you can lay some tooth cream upon the nick, then gently erase by the soft fabric; Please keep the surface clean and avoid contacting with the chemical corrosive. If there is some stain, please deal with and clean immediately.

The cleaning method as follows:

Type Of Stains	Detergent	Instructions
tea, coffee, beer, iodine, ink pencil, soy, vinegar	acidic liquor (vinegar or dilute hydrochloric acid)	use the water or duster cloth to clean
whitewash, cement mortar joint filling agent, rust	without any detergent	use the cotton duster cloth wet by the acidic liquor to clean then wash by the water
juice, ice cream, oil-based coloring pencil, oil-based mark pen	washing powder, detergent, soap, tooth cream, washing liquor	use the cotton duster cloth wet by the detergent to clean then wash by the water
oil paint, rubber	thinner, acetone, organic compound of benzene series or organic compound of lipid series	lay the cotton duster cloth wet by the detergent on the stains. Wait for 5 minutes then wipe by the wet duster cloth for several times

MEMMO