

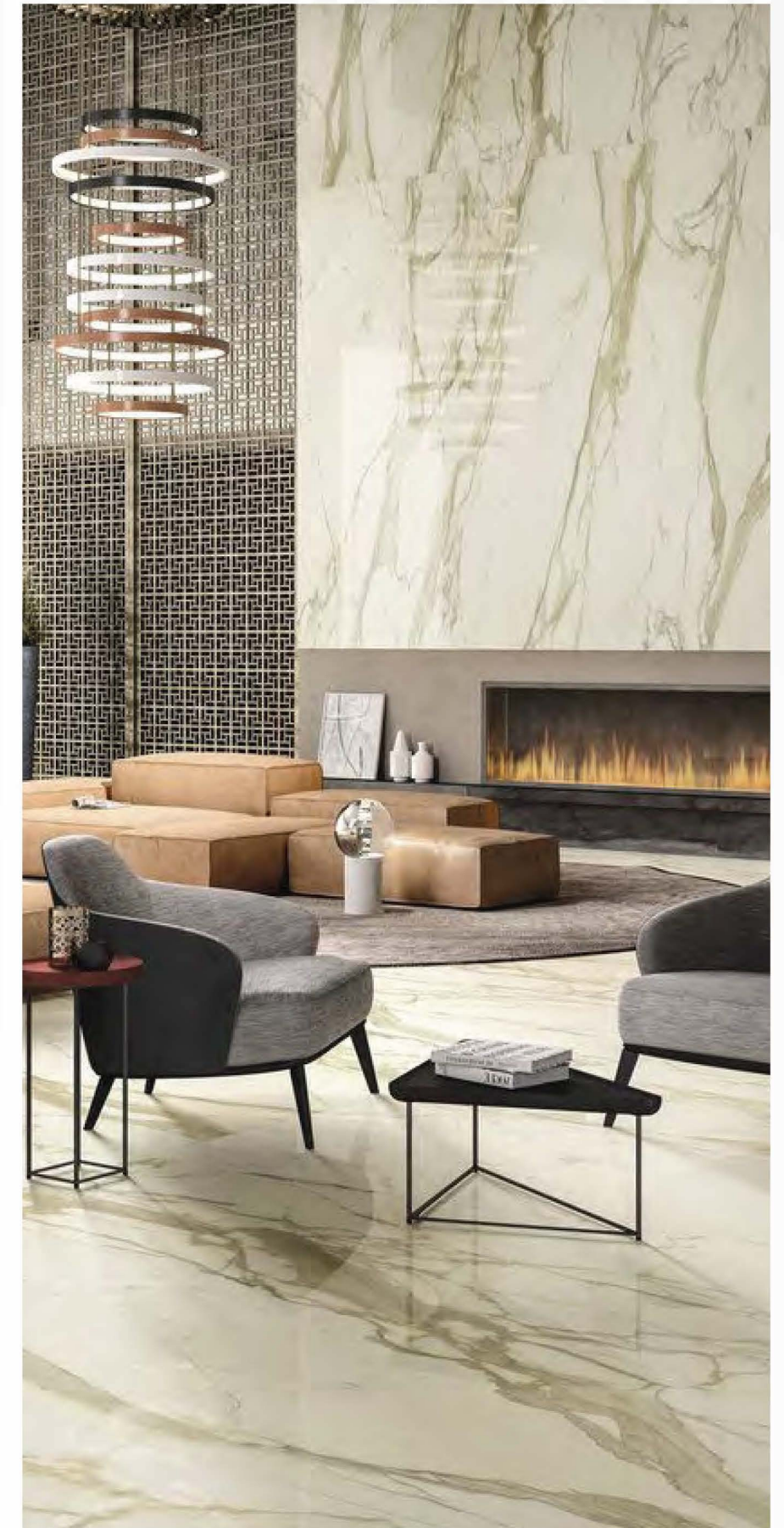


HASANOĞLU  
GROUP

# Natural Stones Catalog

## About us:

At HASANOGLU GROUP, we have 7+ years of experience supplying and trading a diverse range of natural stones, offering customized solutions to meet the unique needs of our global clientele, With a commitment to quality and precision, we ensure that each product reflects the natural beauty and durability of Turkish natural stones.



## Tailored Solutions:

Hassanoglu provides tailored natural stones solutions for construction, architectural features, interior and exterior design, enhancing project aesthetics and functionality.



# Application

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Airport



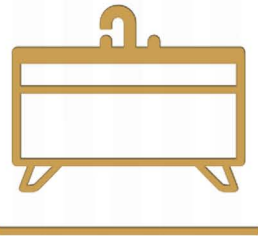
Restaurant



Offices



Shops



Fitted Kitchen  
And Bathroom  
Furniture



Hotels



Museums



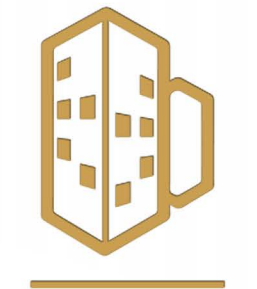
Ventilated  
Curtain Walls



Retail Malls



Spa And  
Wellness  
Centres



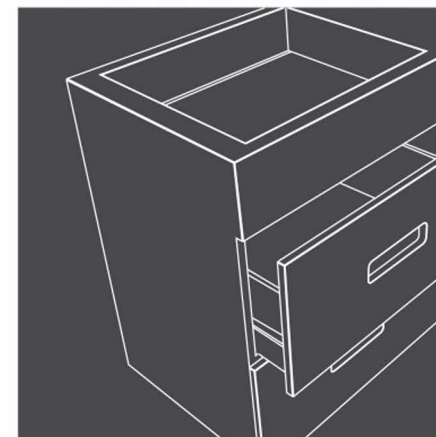
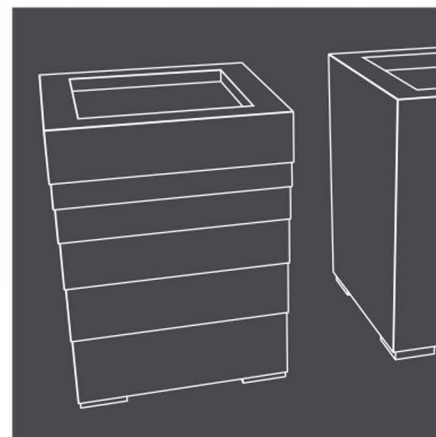
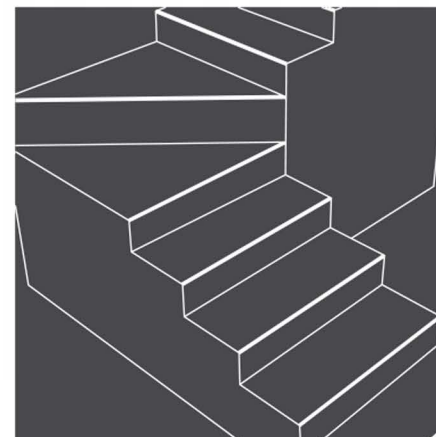
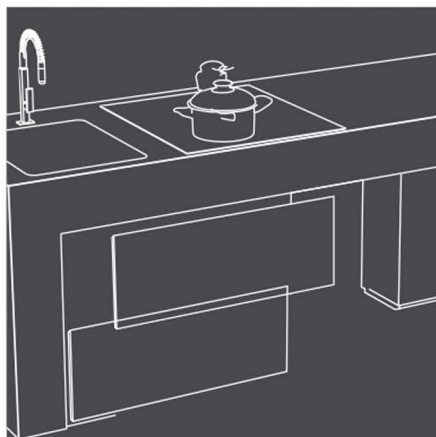
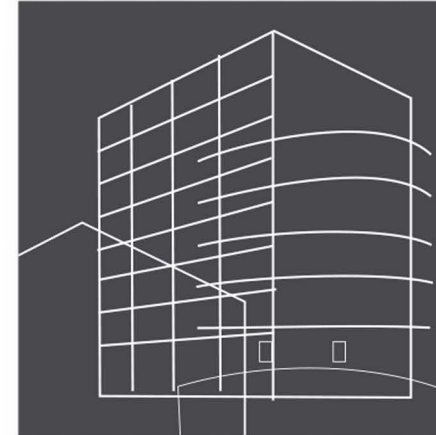
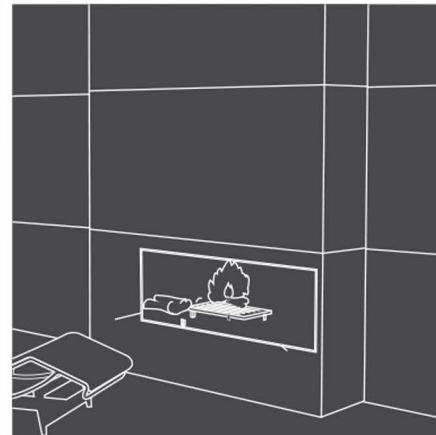
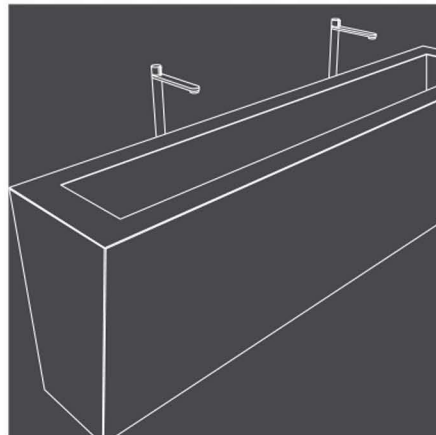
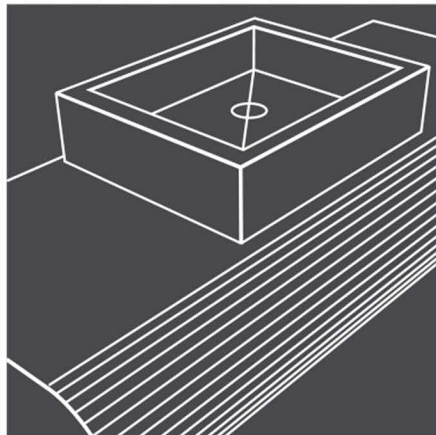
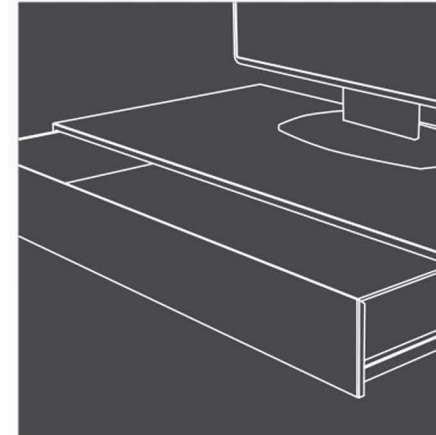
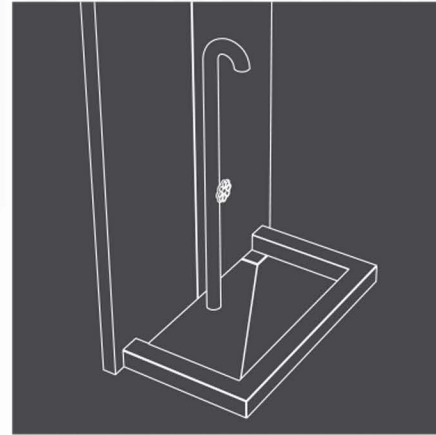
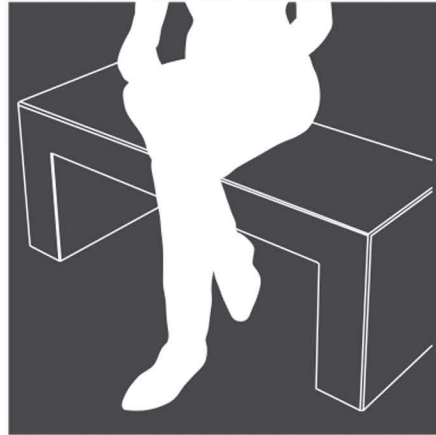
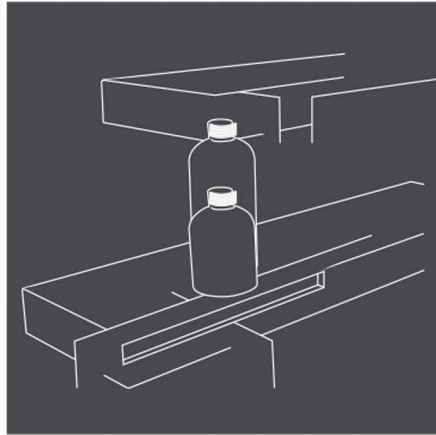
Homes



Interior Design And  
Furnishings

# Possibilities

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## Variety of Finishes:

Choose from a variety of finishes, including polished, honed, brushed, and tumbled, to complement your design vision with high-quality, aesthetically appealing marble products.





## Precision in Processing and Packaging:

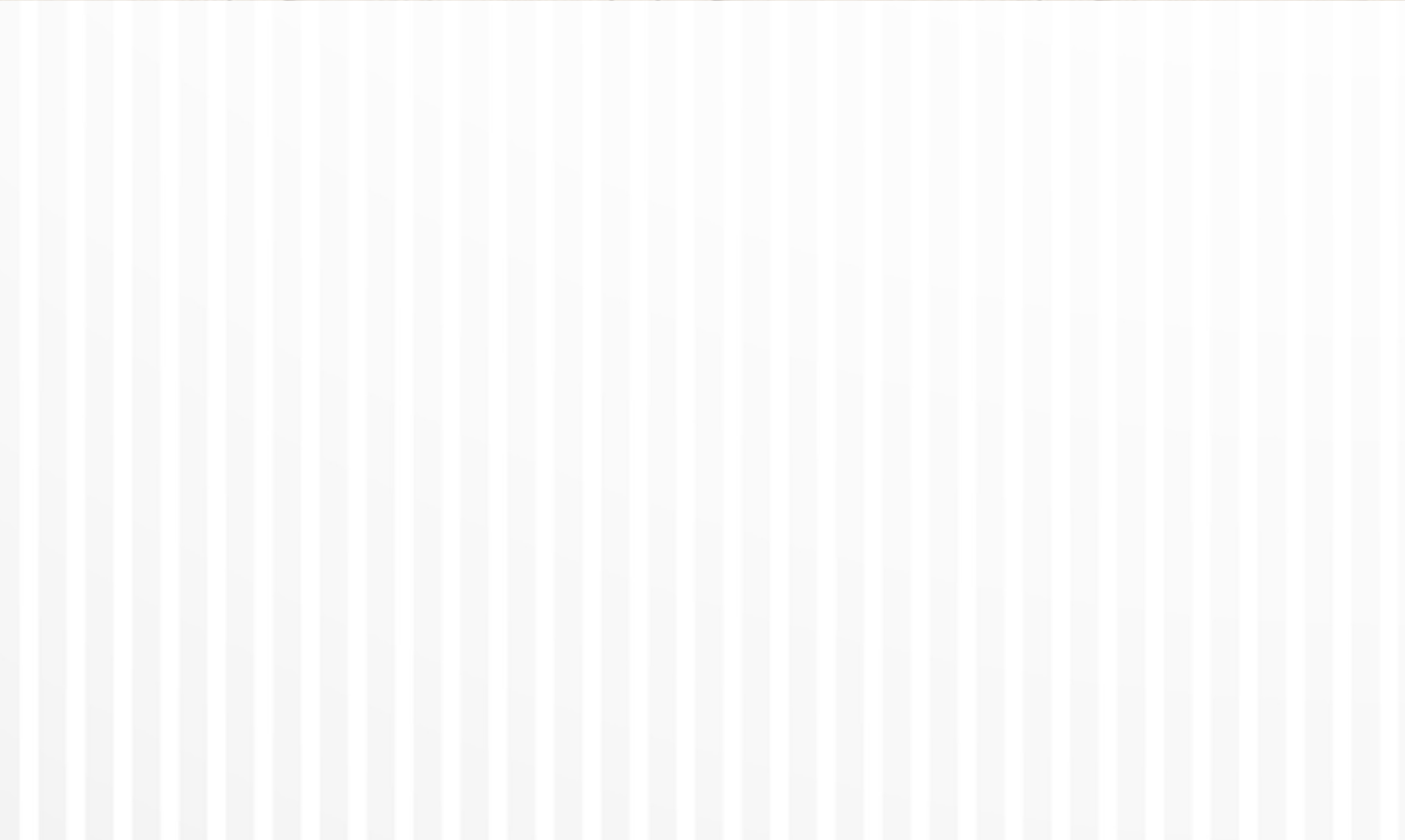
At Hassanoglu, we ensure precision in every stage, using advanced processing and meticulous inspection. Our secure packaging guarantees safe, timely delivery worldwide, whether for large quantities or bespoke orders.

A wide-angle photograph of a large-scale quarry operation. The background features a massive, layered rock face with a prominent peak. The foreground is a dirt and gravel area where several pieces of heavy machinery are visible, including a yellow tracked excavator and a smaller yellow vehicle. The scene is illuminated by warm, golden light, suggesting late afternoon or early morning. A white rectangular box is superimposed over the center of the image, containing the text "Our products".

Our products



Mugla-Newyork-Tile



# Analysis Report

## LITHOLOGICAL AND GEOLOGICAL CHARACTERISTICS:

Paleosolic aged Milas Kavaklıdere Marble is lithologically a recrystallised limestone and is found as lenses in metamorphical schistes. It has a white colour and occasional purple veins. It consists of calcite crystals of unit sizes between 300-500 microns showing pressure twinning and some calcite of 50-150 microns.

GEOLOGICAL RESERVES: 20.000.000 m<sup>3</sup>

## BLOCK SITUATION AND USAGE AREAS:

Block dimensions vary between 1,50 x 1,50 x 0,80 m and 2,40 x 2,40 x 1,80 m. Plates of 2 or 3 cm thick and desired dimensions can be produced.

Can be used in interior/exterior plating, floor covering or decoration.

There are some fractures in blocks locally. The suitability to take plate; to cut sides and corners; to be polished; the shapeability; and the cutting rate are all good. There isn't any rusting risk.

## LİTOLOJİ VE JEOLÖJİK ÖZELLİKLER:

Paleozoyik yaşlı Milas Kavaklıdere mermeri, rekristalize kireçtaşı litolojilidir ve metamorfik şistler içinde bir mercek şeklinde yer almaktadır. Milas Kavaklıdere mermeri, beyaz renkte olup mor damarlar içermektedir. Mermer, örnek basınç ikizlenmesi gösteren ve hakim tane boyu 300 mikron ve 500 mikron arasında değişen kalsit minerallerinden ibarettir. Ayrıca tane boyu 50 mikron ve 150 mikron civarında olan kalsit mineralleri de saptanmıştır.

JEOLÖJİK REZERV: 20.000.000 m<sup>3</sup>

## BLOK DURUMU VE KULLANIM ALANLARI:

Blok boyutları; 1,50 x 1,50 x 0,80 m ile 2,40 x 2,40 x 1,80 m arasında değişmektedir. 2 ve 3 cm kalınlığında ve istenilen boyutlarda plakalar elde edilebilir.

İç ve dış kaplama, döşeme ve dekorasyonda kullanılabilir.

Blokta yer yer çatlaklar vardır. Plaka vermesi, kenar köşe kesilmesi, cilalanabilme ile şekillendirilebilme yeteneği ve kesilme hızı iyidir. Paslanma tehlikesi yoktur.

## PHYSICAL, MECHANICAL AND TECHNOLOGICAL SPECIFICATIONS:

Hardness	(Mohs) :	3
Unit Volume Weight	(gr/cm <sup>3</sup> ) :	2,72
Density	(gr/cm <sup>3</sup> ) :	2,74
Water absorption at atmospheric pressure,	by weight (%) :	0,1
	by volume (%) :	0,2
Water absorption at boiling water,	by weight (%) :	0,1
	by volume (%) :	0,2
Porosity	(%) :	0,2
Compressive strength	(Kgf/cm <sup>2</sup> ) :	1019
Compressive strength after freezing	(Kgf/cm <sup>2</sup> ) :	1019
Strength to blow	(Kgf/cm <sup>2</sup> ) :	23
Strength to bending	(Kgf/cm <sup>2</sup> ) :	141
Modules of Elasticity	(Kgf/cm <sup>2</sup> ) :	12,87 x 10 <sup>4</sup>
Ratio of fullness	(%) :	99,3
Degree of pores	(%) :	0,7
Average Abrasion Strength	(cm <sup>3</sup> /50 cm <sup>2</sup> ) :	17,7
Average Tensile Strength	(Kgf/cm <sup>2</sup> ) :	79

## CHEMICAL ANALYSIS

	%
SiO <sub>2</sub>	0,14
Fe <sub>2</sub> O <sub>3</sub>	0,32
CaO	50,95
MgO	4,17

## PETROGRAPHICAL ANALYSIS:

The sample consists of calcite crystals of unit sizes between 300-500 microns showing pressure twinning and some calcite of 50-150 micron sizes.

## FİZİKSEL, MEKANİK VE TEKNOLOJİK ÖZELLİKLER:

Sertlik	(Mohs) :	3
Birim hacim ağırlığı	(gr/cm <sup>3</sup> ) :	2,72
Özgül ağırlığı	(gr/cm <sup>3</sup> ) :	2,74
Atmosfer basıncında su emme,	ağırlıkça (%) :	0,1
	hacimce (%) :	0,2
Kaynar suda su emme,	ağırlıkça (%) :	0,1
	hacimce (%) :	0,2
Porozite	(%) :	0,2
Basınç direnci	(Kgf/cm <sup>2</sup> ) :	1019
Don sonrası basınç direnci	(Kgf/cm <sup>2</sup> ) :	1019
Darbe direnci	(Kgf/cm <sup>2</sup> ) :	23
Eğilme direnci	(Kgf/cm <sup>2</sup> ) :	141
Elastisite modülü	(Kgf/cm <sup>2</sup> ) :	12,87 x 10 <sup>4</sup>
Doluluk oranı	(%) :	99,3
Gözeneklilik derecesi	(%) :	0,7
Ortalama aşınma direnci	(cm <sup>3</sup> /50 cm <sup>2</sup> ) :	17,7
Ortalama çekme direnci	(Kgf/cm <sup>2</sup> ) :	79

## KİMYASAL ANALİZLER

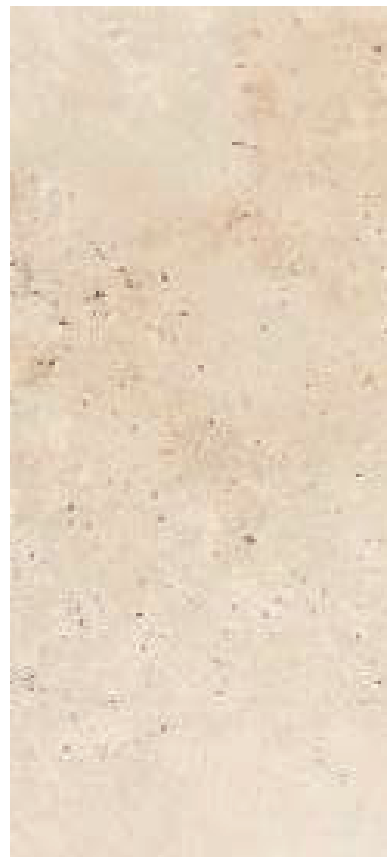
	%
SiO <sub>2</sub>	0,14
Fe <sub>2</sub> O <sub>3</sub>	0,32
CaO	50,95
MgO	4,17

## PETROGRAFİK ANALİZLER:

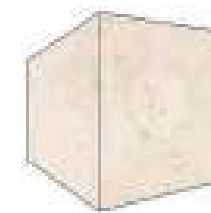
Örnek basınç ikizlenmesi gösteren ve hakim tane boyu 300 mikron - 500 mikron arasında değişen kalsit minerallerinden ibarettir. Ayrıca, tane boyu 50 - 150 mikron civarında olan kalsit mineralleri de saptanmıştır.



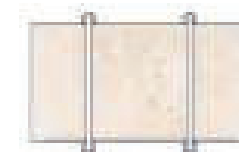
**Traverten Premium Vein Cut**



**Traverten Premium Cross Cut**



Block



Slab



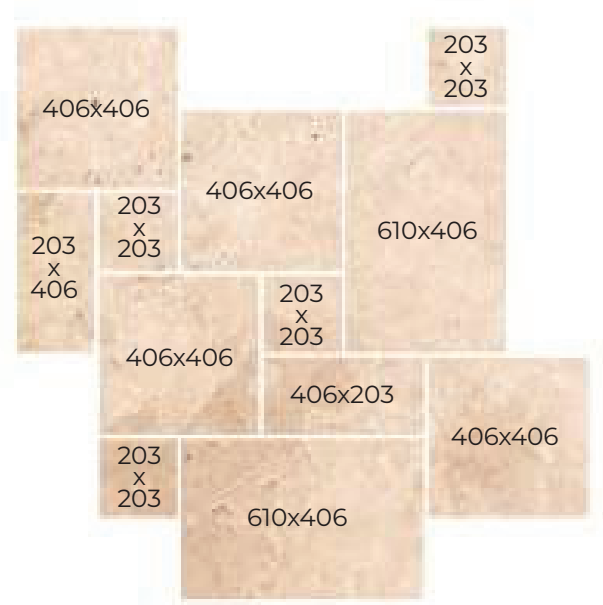
Cut to size







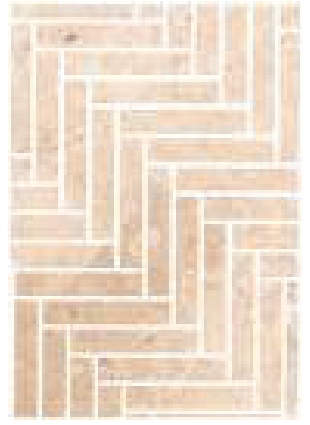
# DESENLER PATTERNS



Herringbone



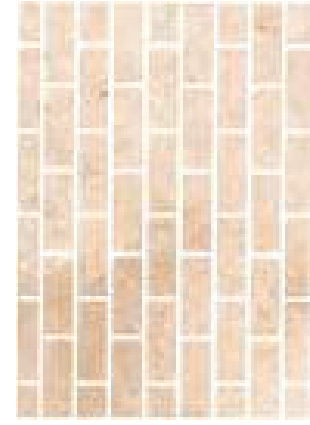
Diagonal Herringbone



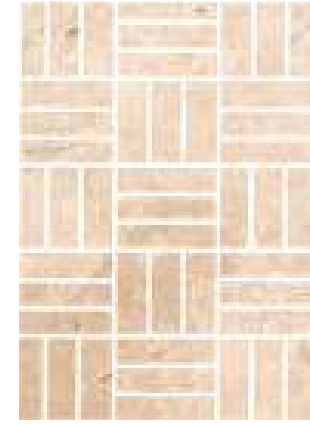
Double Herringbone



Brick



Basket



Diagonal Basket





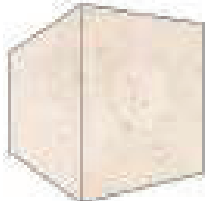




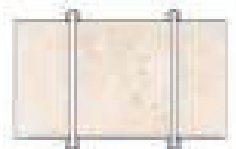
Yellow Travertine Vein Cut



Yellow Travertine Cross Cut



Block

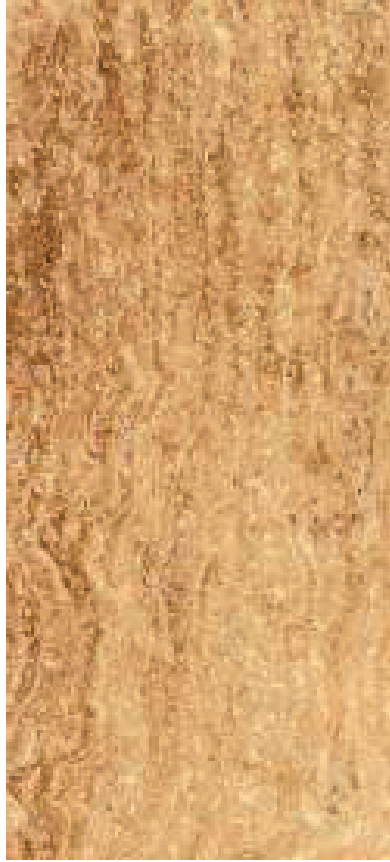
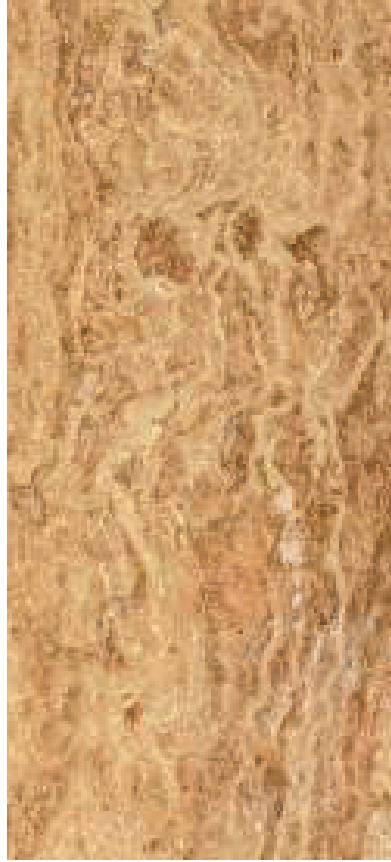


Slab



Cut to size

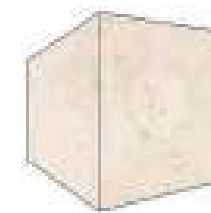




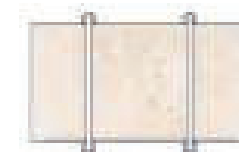
Noche Travertine Vein Cut



Noche Travertine Cross Cut



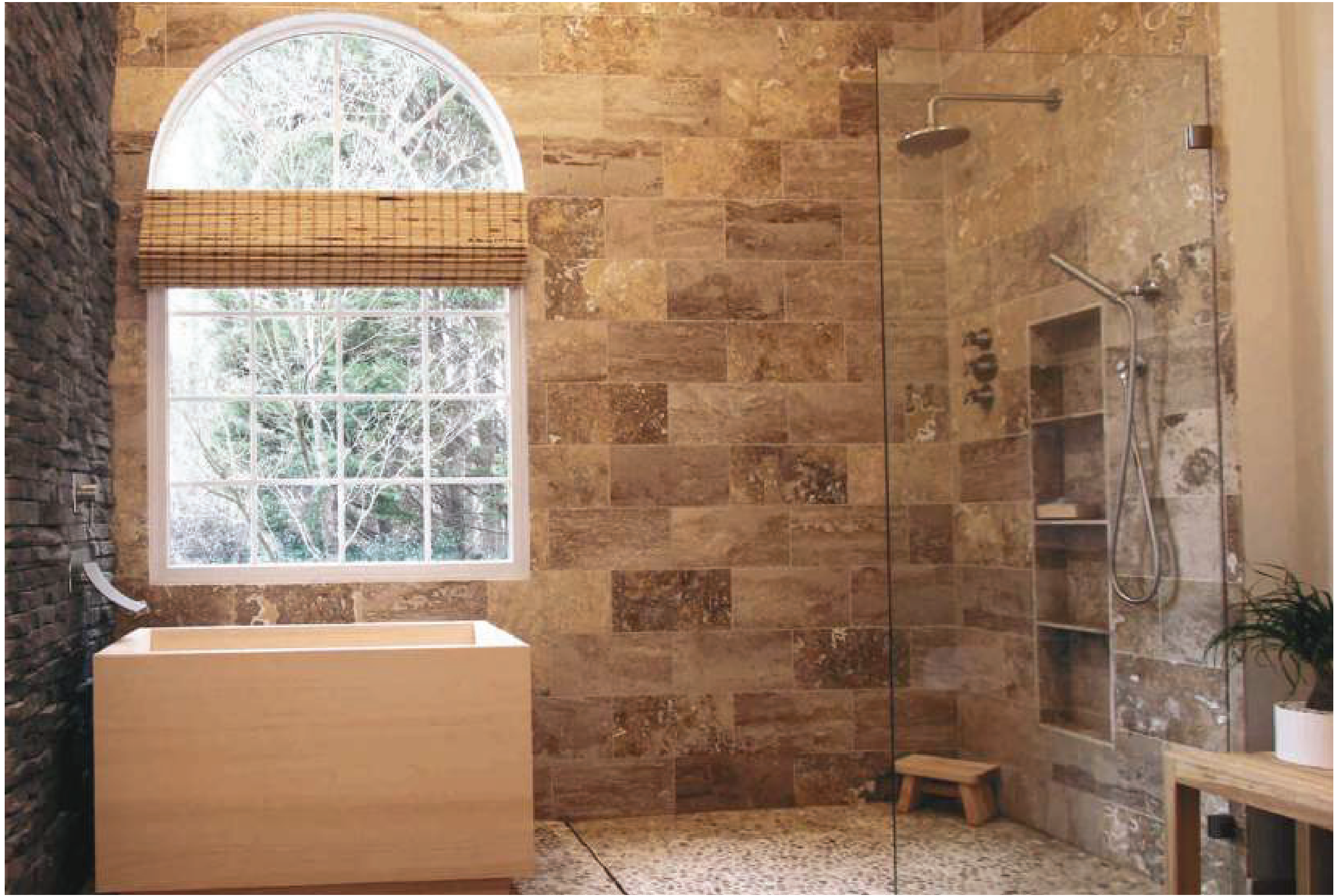
Block



Slab

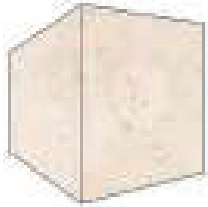


Cut to size

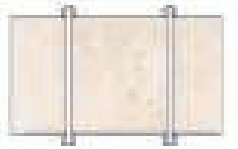




**Ottoman Beige**



Block



Slab

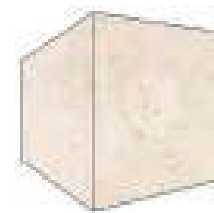


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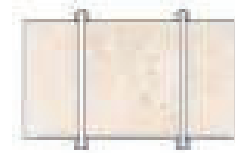




## Baiyulan



Block



Slab



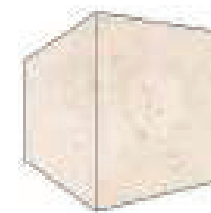
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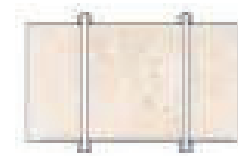




## Shandian



Block



Slab

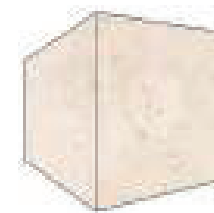


Cut to size

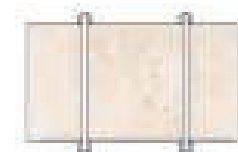




## Latte Beige



Block



Slab

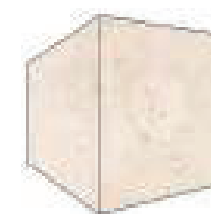


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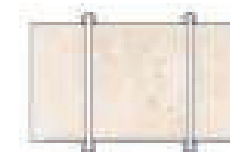




## Sofita



Block



Slab

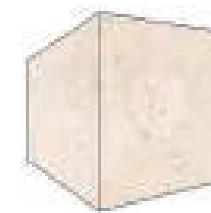


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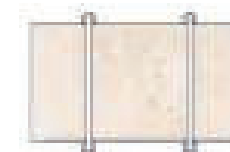




## Sunset



Block



Slab



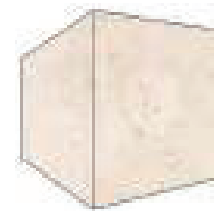
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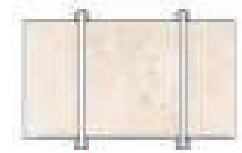




## Manyas White



Block



Slab



Cut to size

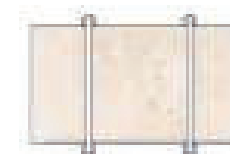




## Marmara Equator



Block

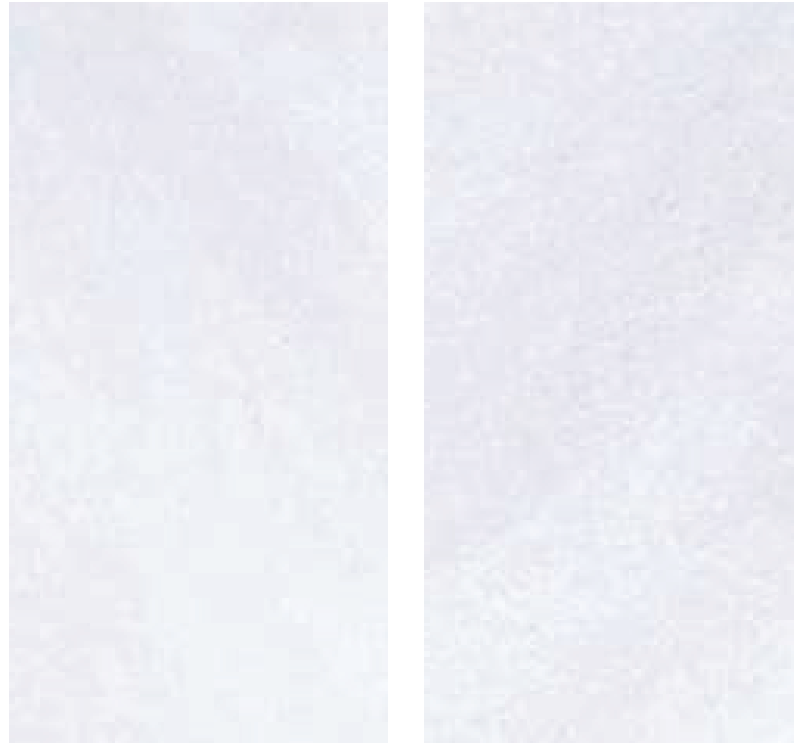


Slab

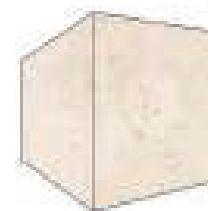


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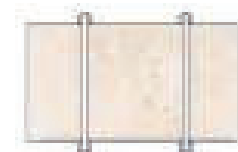




## Mugla White



Block

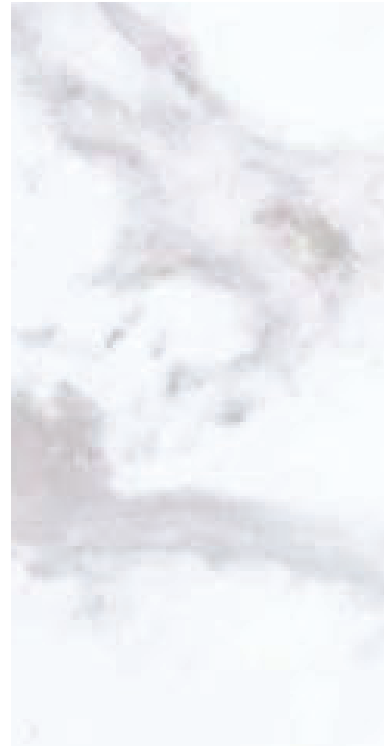


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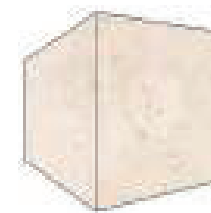


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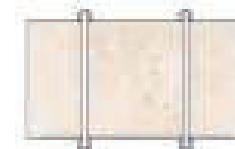




## Calacatta



Block



Slab

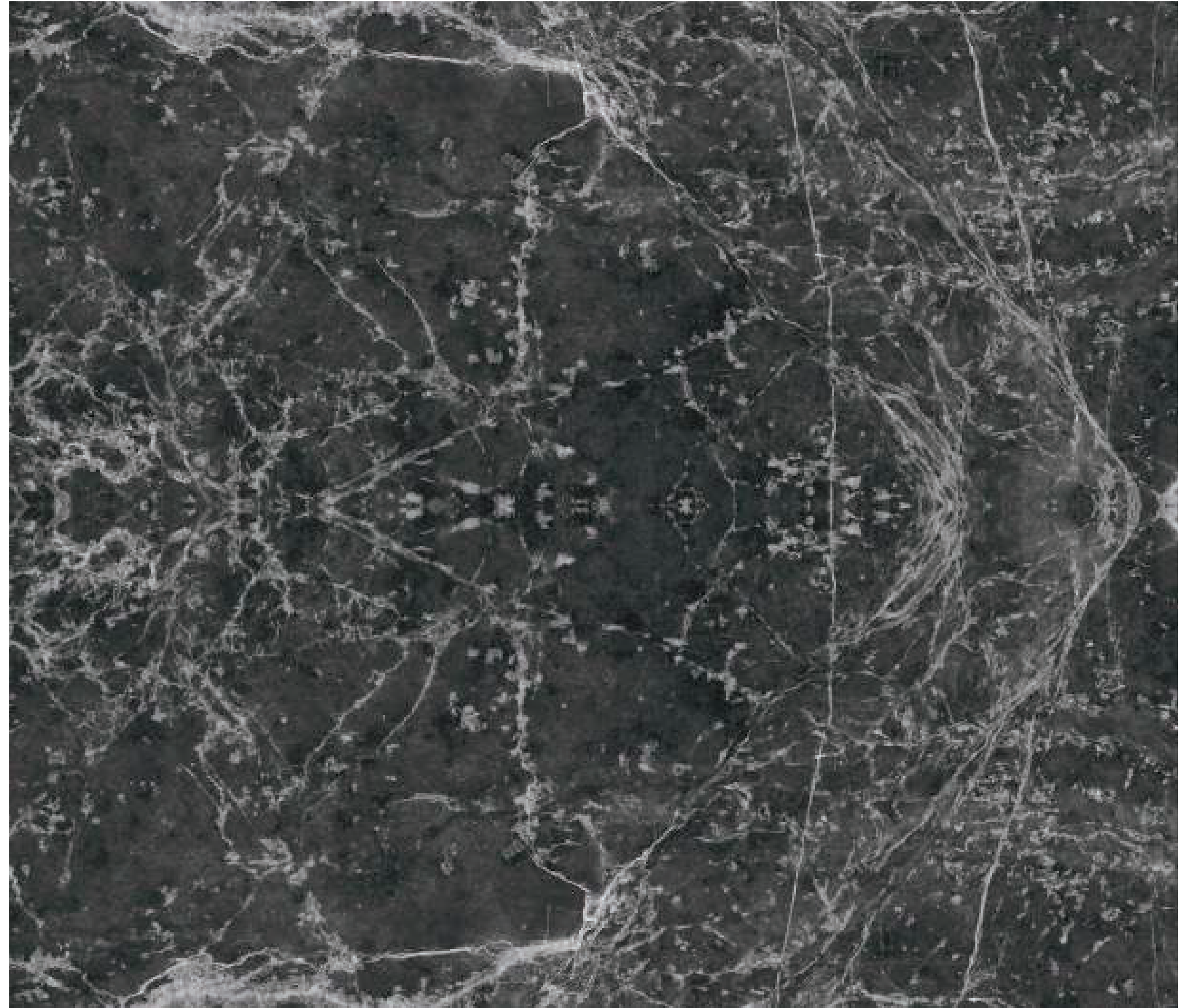


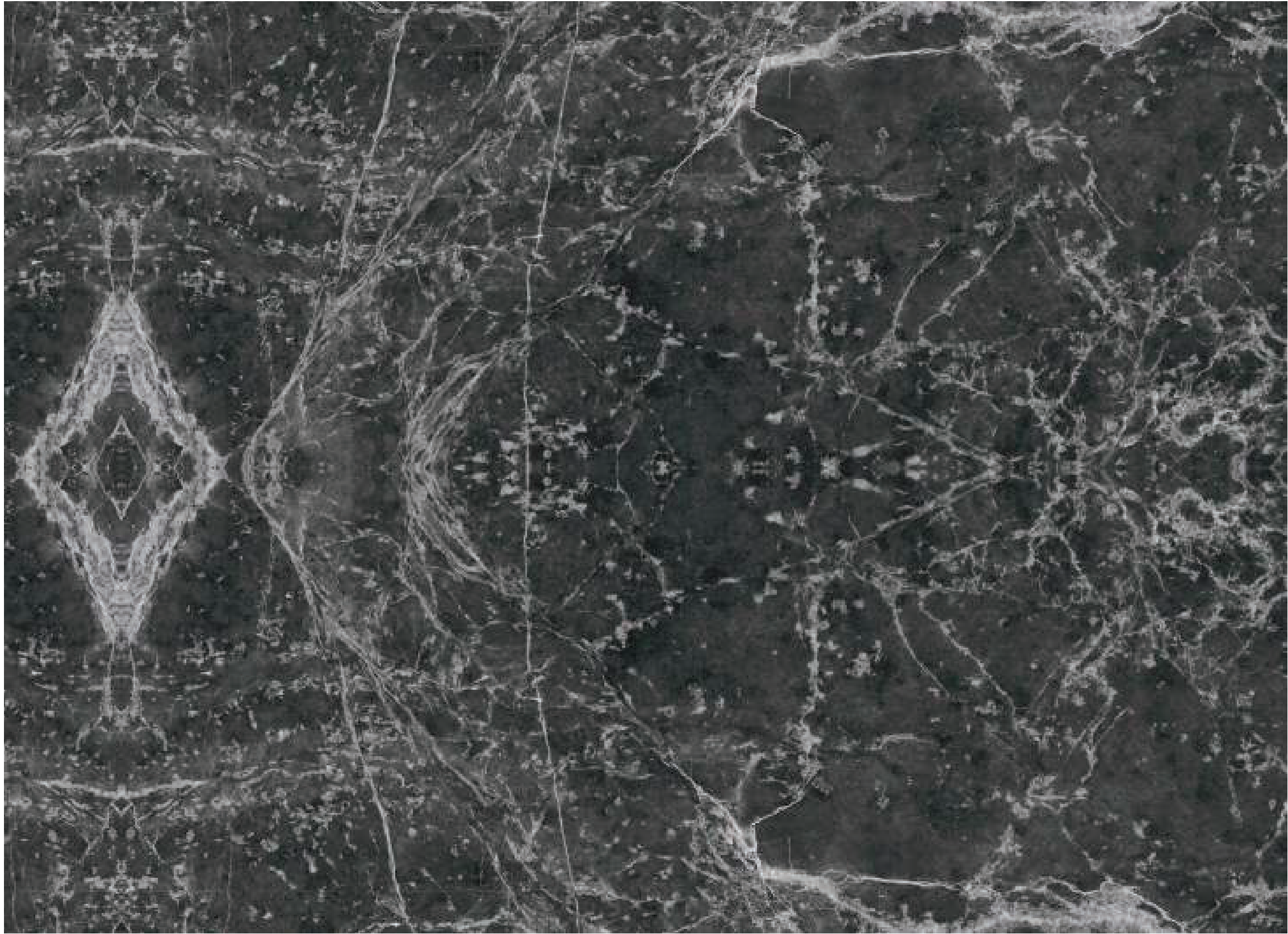
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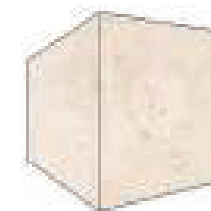
## MARBLE BOOKMATCH



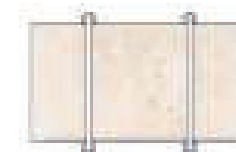




## Dolomite White



Block

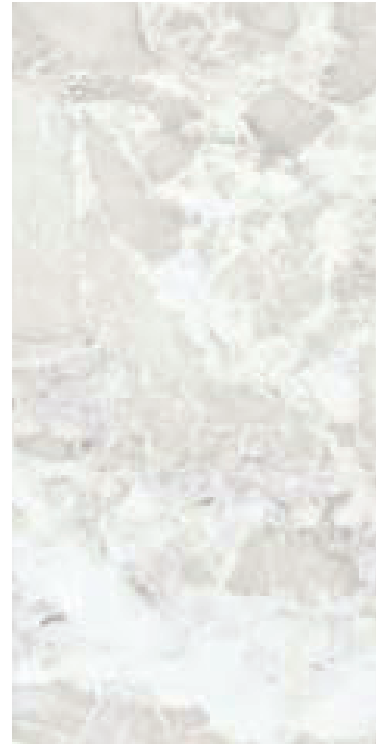
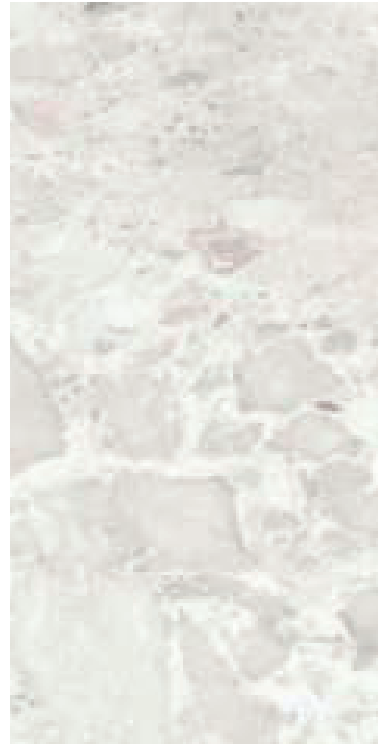


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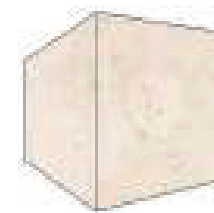


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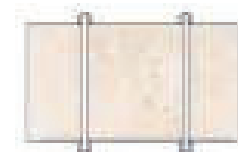




## Active Dolomite



Block



Slab



Cut to size

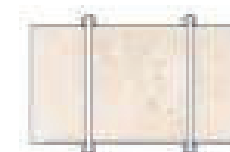




## Toros Black



Block



Slab



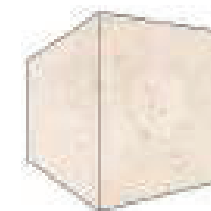
Cut to size



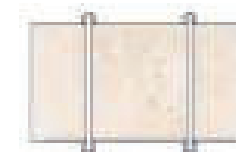




## Silver Grey Vein Cut



Block



Slab

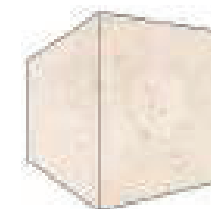


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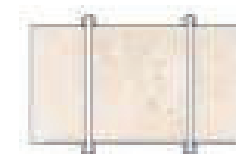




## Silver Grey Cross Cut



Block



Slab

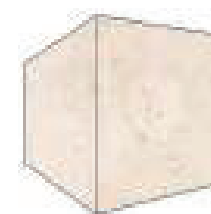


Cut to size

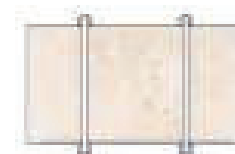




## Emperador



Block



Slab

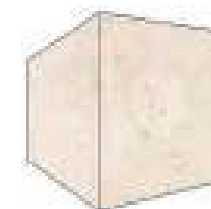


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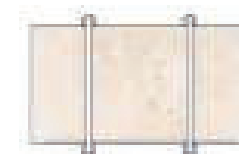




## Kaman Green Vein Cut



Block



Slab



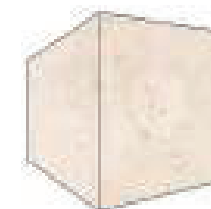
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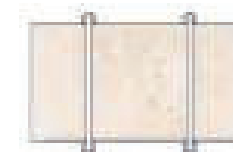




## Kaman Green Cross Cut



Block



Slab

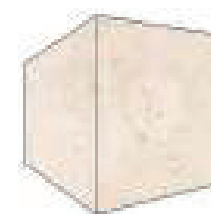


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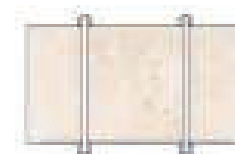




## Onyx



Block



Slab

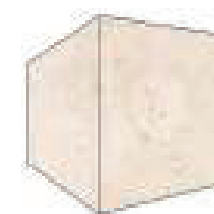


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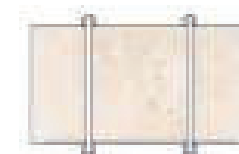




## Kircicegi Granite



Block



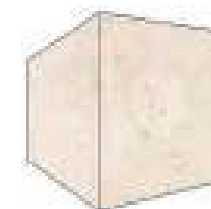
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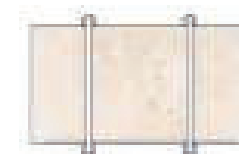
Cut to size



## Anatolian Grey Granite



Block



Slab



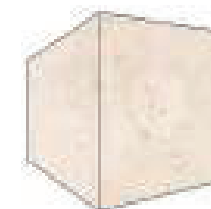
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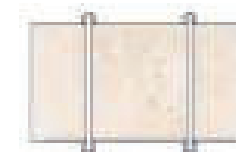




## Yaylak Granite



Block



Slab

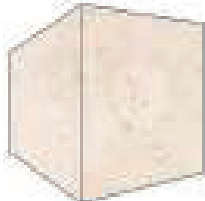


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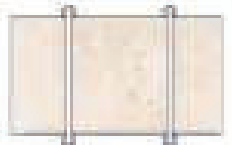




# Limestone Classic



Block



Slab

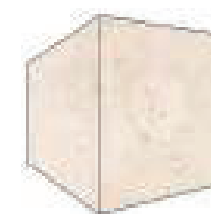


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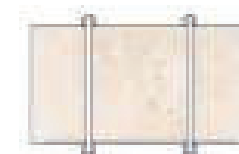




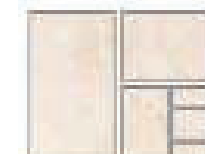
## Limestone Sesame



Block



Slab

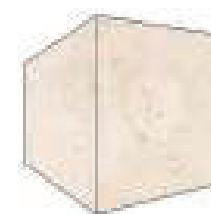


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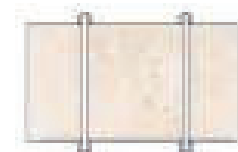




## Limestone Cloudy



Block



Slab



Cut to size









# Analysis Report

## MİNERALOJİK VE PETROGRAFİK ANALİZ (The Mineralogical and Petrographic Analysis)

TESTLER (Tests)	Standart (Standard)	Ölçülen Değer (Measurements)	Ortalama (Average)
Tek Eksenli Basınç Dayanımı (MPa) (Uniaxial Compressive Strength)	TS EN 1926	104,20	<b>107,38 MPa</b> ( <b>1095,44 kgf/cm<sup>2</sup></b> )
		120,45	
		122,44	
		98,78	
		103,46	
Eğilme Dayanım (MPa) (Bending strength)	TS EN 13161	94,88	<b>16,91 MPa</b> ( <b>172,44 kgf/cm<sup>2</sup></b> )
		21,44	
		20,58	
		14,30	
		16,86	
		14,31	
		14,43	
		18,42	
		14,94	
		18,82	
Eğilme Dayanım (MPa) (Bending strength)	TS EN 12372	14,90	<b>15,61 MPa</b> ( <b>159,18 kgf/cm<sup>2</sup></b> )
		11,86	
		11,11	
		15,82	
		12,88	
		19,00	
		17,76	
		18,17	
		17,29	
		16,64	
Aşınma Dayanım Direnci (Strength of Abrasion)	EN 14157	15,46	<b>14,00 mm</b>
		13,97	
		13,33	
		13,12	
		14,17	
Atmosfer Basıncında Su Emme (%) (Water Absorption)	TS EN 13755	14,47	<b>% 0,57</b>
		14,61	
		0,55	
		0,56	
		0,59	
		0,58	
		0,60	
Kılcal Etkiye Bağlı Su Emme Katsayısı (gr/m <sup>2</sup> .s <sup>0,5</sup> ) (Water absorption coefficient by capillarity)	TS EN 1925	0,56	<b>2,97 gr/m<sup>2</sup>.s<sup>0,5</sup></b>
		3,18	
		2,82	
		3,02	
		2,84	
		2,97	
2,96			

### MAKROSKOBİK İNCELEMELER (Macroscopic Properties)

Kayaç içerisinde makro olarak kuvars, ortoklas, plajiyoklas ve biyotit mineralleri gözlenmektedir.

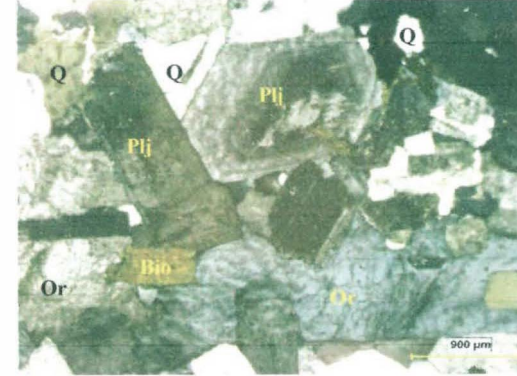
### MİKROSKOBİK İNCELEMELER (Microscopic Properties)

Holokristalin doku sunan kayaç kuvars, ortoklas, plajiyoklas ve biyotit minerallerinden oluşmaktadır (Şekil 1). Kayaçta oluşan minerallerin minimum, maksimum ve ortalama tane boyutları tablo 1' de verilmiştir.

Tablo 1: Kayaç içerisindeki mineral tane boyutları.

Mineral Adı	Min. Tane Boyutu (µm)	Maks. Tane Boyutu (µm)	Ort. Tane Boyutu (µm)
Kuvars	756,9	3330,3	1555,2
Ortoklas	304,2	4362,1	2472,5
Plajiyoklas	493,9	3424,8	1425
Biyotit	186,7	1119,7	577,3

Kayaç %27 kuvars, %58 ortoklas, %14 plajiyoklas, %10 ve üzeri mafik minerallerden oluşmaktadır. Bu değerlere göre yapılan QAP eşleşmesinde kayaç granit olarak isimlendirilmiştir.



Şekil 1: Kayaç içerisinde gözlenen kuvars (Q), ortoklas (Or), plajiyoklas (Plj) ve biyotit (Bio) mineralleri.

### PETROGRAFİK TANIM (Petrographic Identification)

Kayaç Grubu: Magmatik – derinlik kayacı

Kayaç Tanımı: Granit

Petrografik incelemeler TS EN 12407'ye göre yapılmıştır.

Petrographic analysis are carried out according to TS EN 12407.

(Devamı)

Ses Yayılma Hızı (m/s) (Ultrasonic Velocity)	TS EN 14579	2940	<b>2504 m/s</b>
		2350	
		2389	
		2341	
		2491	
Knoop Sertliği (Knoop hardness)	TS EN 14205	2517	<b>180</b>
Mohs Sertliği (Mohs hardness)	Dönüşüm Çizelgesi	180 HK	<b>3</b>

### Kaymazlık Test Sonucu

Numune Boyutu (cm) (Sample Dimension)	120 20 3
Numunenin Yüzey İşleme Tekniği (Application of Surface Treatment Sample)	Cıralı
Test Sonucu (Test Result)	23,28°
Test Sonucuna göre Sınıflandırması (Classification of Test Result)	B*

\*Not: Sınıflandırma çizelgesi aşağıda verilmiştir.

### DIN 51097 Standardına Uygun Sınıflandırma Özellikleri

Açı değeri	Uygulama alanı
A ≥ 12	<ul style="list-style-type: none"><li>Genellikle kuru iken yalınayak kullanılan koridorlar,</li><li>Tek yada grup soyunma odaları (sporcular için),</li><li>Tüm yüzme havuzlarında, derinliği 80 cm olmayan sığ yüzme havuzlarında.</li></ul>
B ≥ 18	<ul style="list-style-type: none"><li>A sınıflandırması içinde belirtilen alanlar dışındaki yalınayak kullanılan koridorlar,</li><li>Dezenfektan spreyleri için oluşturulan alanlar,</li><li>Yüzme havuzu çevresindeki alanlar,</li><li>Platformlar,</li><li>Çocuk havuzları,</li><li>Yağmurlu alanlardaki merdivenler,</li><li>Yüzme havuzu dışındaki merdiven basamakları.</li></ul>
C ≥ 24	<ul style="list-style-type: none"><li>Havuzların kıyı eğimlerinde,</li><li>B sınıflandırmasında yer almayan su içindeki merdivenler.</li></ul>



Mugla-Newyork-Tile



# Analysis Report

TEST / ANALİZLER Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method TS EN 14231					
*Pandül deney donanımıyla kayma direncinin tayini (Kuru zeminde) (Determination of the slip resistance by means of the pendulum tester)(Dry Conditions)							
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	
Numune Boyutu (mm) (Sample Size)	200x100x20	200x100x20	200x100x20	200x100x20	200x100x20	200x100x20	
Sikaladan Okunan Değer (SRVd) (The value read scale)	24	25	25	24	24	25	
Sikaladan Okunan Değer (180° döndürülmüş durumda) (SRVd) (The value read scale Rotated 180°)	25	24	25	23	24	24	
Ortalama Değer (SRVd) (Average Value)	24,3						

TEST / ANALİZLER Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method TS EN 1925					
*Kılcal ekiye bağlı su emme katsayısının tayini (Determination of water absorption coefficient by capillarity)							
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	
Numune Boyutu (mm) (Sample Size)	50,89x50,47	50,58x50,57	50,21x50,87	50,69x50,70	50,53x51,00	51,80x50,41	
Sonuçlar (gr/m <sup>2</sup> .s <sup>0,5</sup> ) (Results)	0,15	0,92	0,46	0,31	0,30	0,23	
Ortalama Değer (gr/m <sup>2</sup> .s <sup>0,5</sup> ) (Average Value)	0,40						
Standart Sapma (Standard Deviation)	0,28						

TEST / ANALİZLER Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method TS EN 12372									
*Yoğun yük altında bükülme dayanımı tayini (Determination of flexural strength under concentrated load)											
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9	Test 10	
Genişlik (mm) (Width)	61	61	61	61	61	61	61	61	61	61	
Kalınlık (mm) (Thickness)	61	61	61	61	61	61	61	61	61	61	
Numunenin Boyu (mm) (Sample Size)	360	360	360	360	360	360	360	360	360	360	
Mesnetler Arasındaki Mesafe (mm) (Distance between lateral supports)	300	300	300	300	300	300	300	300	300	300	
Diklikten Sapma (Deviation from perpendicularity)	0,2	0,3	0,2	0,2	0,3	0,1	0,2	0,1	0,3	0,2	
Kırılma Yükü (kN) (Breaking Load)	3,62	2,68	2,83	4,50	3,22	3,22	2,35	3,41	2,03	2,94	
Somuç (MPa) (Result)	7,18	5,01	5,61	8,92	6,38	6,38	4,66	6,76	4,03	5,83	
Ortalama Değer (MPa) (Average Value)	6,11										
Standart Sapma (Standard Deviation)	1,40										

Rapor No: 207 Report No	Sayfa: 2/2 Page			
TEST / ANALİZLER Test / Analysis	Test/Analiz Metodu Test/Analysis Method	Birim Unit	Sonuçlar Results	Standart Sapma Standard Deviation
*Don tesirlerine dayanıklılık ve don sonrası basınç dayanımı Determination of frost resistance	TS EN 12371	Kırma, Mpa	145	14,00
*Sabit moment altında eğilme dayanımının tayini Determination of flexural strength under constant moment	TS EN 13161	Mpa	8,13	1,49
*Yoğun yük altında bükülme dayanımı tayini Determination of flexural strength under concentrated load	TS EN 12372	Mpa	6,11	1,40
*Kılcal ekiye bağlı su emme katsayısının tayini Determination of water absorption coefficient by capillarity	TS EN 1925	gr/m <sup>2</sup> .s <sup>0,5</sup>	0,40	0,28
Parlaklık Tayini (60°) (Brightness)	-	Gloss	73,80	3,92

Rapor No: 207 Report No		Sayfa: 1/2 Page		
Numunenin Adı ve Tanımı and Identity		Deneilerin Yapıldığı Tarih / Date of Tests 24.12.2014-08.01.2015		
Rapor Tarihi: Report Date		15.01.2015		
TEST / ANALİZLER Test / Analysis	Test / Analiz Metodu Test / Analysis Method	Birim Unit	Sonuçlar Results	Standart Sapma Standard Deviation
*Basınç dayanımı tayini Determination of compressive strength	TS EN 1926	Mpa	121	10,00
*Knoop sertliğinin tayini Determination of Knoop hardness	TS EN 14205	HK HK25/HK75 Mohs	157 0,91 3,5-4	-
*Görünür yoğunluk tayini Determination of real density	TS EN 1936	kg/m <sup>3</sup>	2642	9,02
*Açık gözeneklilik tayini Determination of apparent density	TS EN 1936	%	0,43	0,13
*Toplam gözeneklilik tayini Determination of total porosity	TS EN 1936	%	3,23	0,36
*Pandül deney donanımıyla kayma direncinin tayini (Kuru) Determination of the slip resistance by means of the pendulum tester (Dry)	TS EN 14231	SRVd°	24,3	0,65
*Pandül deney donanımıyla kayma direncinin tayini (Islak) Determination of the slip resistance by means of the pendulum tester (Wet)	TS EN 14231	SRVd°	6,1	0,51
*Ses hızı ilerlemesinin tayini Determination of sound speed propagation	TS EN 14579	Km/s	5,278	0,19
*Özgül kütle Specific Gravity of Soil Solids by Gas Pycnometer	ASTM D-5550-06	kg/m <sup>3</sup>	2732	28,20
*Aşınma direnci tayini Determination of abrasion resistance	TS EN 1341Ek C	mm	17,62	0,31

Tundra Ocean Visual



Papillon Exotic Visual



# Analysis Report

Güneş Işığı Yansıtma / Solar Reflectance ASTM C1519						
Ölçüm Reading	Test Koşulu : Kuru Test Condition : Dry			Test Koşulu : Doymun Test Condition : Saturated		
	Numune 1 Sample 1	Numune 2 Sample 2	Numune 3 Sample 3	Numune 4 Sample 4	Numune 5 Sample 5	Numune 6 Sample 6
	1	0,701	0,698	0,707	0,605	0,649
2	0,693	0,681	0,705	0,627	0,639	0,641
3	0,725	0,697	0,703	0,636	0,636	0,649
4	0,680	0,711	0,705	0,646	0,656	0,63
5	0,700	0,697	0,651	0,653	0,663	0,656
6	0,673	0,691	0,688	0,646	0,669	0,543
7	0,694	0,734	0,705	0,644	0,646	0,639
8	0,730	0,724	0,727	0,640	0,642	0,614
9	0,690	0,722	0,725	0,636	0,661	0,666
Ortalama Average	0,698	0,706	0,702	0,637	0,651	0,629
	0,702			0,639		

Isıl Yayımlı / Thermal Emissivity ASTM C1371					
Test Koşulu : Kuru Test Condition : Dry			Test Koşulu : Doymun Test Condition : Saturated		
Numune 1 Sample 1	Numune 2 Sample 2	Numune 3 Sample 3	Numune 4 Sample 4	Numune 5 Sample 5	Numune 6 Sample 6
0,892	0,891	0,890	0,941	0,941	0,941
0,891			0,941		

Güneş Işığı Yansıtma İndeksi (SRI) / Solar Reflectance Index (SRI) ASTM E1980 (Yaklaşım II / Approach II)			
Test Koşulu / Test Condition	Taşınım Katsayısı / Convective Coefficient		
	Düşük / Low 5 Wm <sup>-2</sup> K <sup>-1</sup>	Orta / Medium 12 Wm <sup>-2</sup> K <sup>-1</sup>	Yüksek / High 30 Wm <sup>-2</sup> K <sup>-1</sup>
Kuru / Dry	85,4	85,6	85,9
Doymun / Saturated	78,4	78,2	78,1

Özellik / Property	Standart Standard	Test koşulu Test condition	Deney sayısı Number of tests	En küçük Lowest	En büyük Highest	Ortalama Average
Görünür yoğunluk (kg/m <sup>3</sup> ) Bulk specific gravity	ASTM C 97-02	-	6	2707	2711	2709 ± 1
Hacimce su emme (%) Water absorption by volume (Open porosity)	ASTM C 97-02	-	6	0,20	0,30	0,23 ± 0,04
Ağırlıkça su emme (%) Water absorption by weight	ASTM C 97-02	-	6	0,07	0,11	0,09 ± 0,01
Basınç dayanımı (MPa) Compressive strength	ASTM C 170 - 99	Dry	6	141,5	165,9	153,2 ± 9,6
Basınç dayanımı (MPa) Compressive strength	ASTM C 170 - 99	Wet	6	111,8	132,1	123,2 ± 10,3
Sabit moment altında eğilme dayanımı (MPa) Flexural strength	ASTM C 880 - 98	Dry	6	8,1	10,3	9,2 ± 1,0
Sabit moment altında eğilme dayanımı (MPa) Flexural strength	ASTM C 880 - 98	Wet	6	5,1	7,6	6,3 ± 1,3
Yoğun yük altında bükülme dayanımı (MPa) Modulus of Rupture	ASTM C 99 - 00	Dry	6	15,5	18,9	16,9 ± 1,4
Yoğun yük altında bükülme dayanımı (MPa) Modulus of Rupture	ASTM C 99 - 00	Wet	6	11,9	17,9	15,1 ± 3,0
Aşınma Dayanımı (Metod-B/Böhme) (cm <sup>3</sup> /50cm <sup>2</sup> ) Abrasion strength	TS EN 14157	Dry	4	5,1	6,4	5,6 ± 0,7

Özellik / Property	Standart Standard	Deney sayısı Number of tests	En küçük Lowest	En büyük Highest	Ortalama Average
Basınç dayanımı (MPa) Compressive strength	TS EN 1926	6	141,5	165,9	153,2 ± 9,6
Don sonrası basınç dayanımı (12 çevrim) (MPa) Compressive strength after freeze-thaw (12 Cycle)	TS EN 12371	5	131,7	148,8	142,3 ± 7,1
Don sonrası kütle kaybı (12 çevrim) (%) Decreasing of weight after freeze-thaw (12 Cycle)	TS EN 12371	5	0,026	0,076	0,059 ± 0,019
Don sonrası basınç dayanımı (48 çevrim) (MPa) Compressive strength after freeze-thaw (48 Cycle)	TS EN 12371	5	116,1	123,3	119,3 ± 3,6
Don sonrası kütle kaybı (48 çevrim) (%) Decreasing of weight after freeze-thaw (48 Cycle)	TS EN 12371	5	0,127	0,229	0,192 ± 0,045
Don sonrası basınç dayanımı (76 çevrim) (MPa) Compressive strength after freeze-thaw (76 Cycle)	TS EN 12371	5	97,1	117,3	109,5 ± 10,9
Don sonrası kütle kaybı (76 çevrim) (%) Decreasing of weight after freeze-thaw (76 Cycle)	TS EN 12371	5	0,103	0,256	0,203 ± 0,086
Yoğun yük altında bükülme dayanımı (MPa) Flexural strength under concentrated load	TS EN 12372	6	11,86	14,22	12,77 ± 0,75
Don sonrası yoğun yük altında bükülme dayanımı (12 çevrim) (MPa) Flexural strength under constant moment after freeze-thaw (12 Cycle)	TS EN 12371	5	9,48	11,79	10,90 ± 0,82
Don sonrası yoğun yük altında bükülme dayanımı (48 çevrim) (MPa) Flexural strength under constant moment after freeze-thaw (48 Cycle)	TS EN 12371	5	9,08	13,92	10,43 ± 2,34
Don sonrası yoğun yük altında bükülme dayanımı (76 çevrim) (MPa) Flexural strength under constant moment after freeze-thaw (76 Cycle)	TS EN 12371	5	8,66	10,82	9,73 ± 1,08

Özellik / Property	Standart Standard	Deney sayısı Number of tests	En küçük Lowest	En büyük Highest	Ortalama Average
Basınç dayanımı (MPa) Compressive strength	TS EN 1926	6	80,9	95,1	87,6 ± 6,3
Don sonrası basınç dayanımı (12 döngü) (MPa) Compressive strength after freeze-thaw (12 Cycle)	TS EN 12371	5	69,8	89,6	81,1 ± 8,4
Don sonrası kütle kaybı (12 döngü) (%) Decreasing of weight after freeze-thaw (12 Cycle)	TS EN 12371	5	0,008	0,030	0,017 ± 0,011
Don sonrası basınç dayanımı (48 döngü) (MPa) Compressive strength after freeze-thaw (48 Cycle)	TS EN 12371	5	68,8	85,5	74,4 ± 7,7
Don sonrası kütle kaybı (48 döngü) (%) Decreasing of weight after freeze-thaw (48 Cycle)	TS EN 12371	5	0,026	0,066	0,042 ± 0,021
Yoğun yük altında bükülme dayanımı (MPa) Flexural strength under concentrated load	TS EN 12372	6	3,77	5,24	4,45 ± 0,56
Don sonrası yoğun yük altında bükülme dayanımı (12 döngü) (MPa) Flexural strength under constant moment after freeze-thaw (12 Cycle)	TS EN 12371	5	3,04	3,24	3,16 ± 0,09
Don sonrası yoğun yük altında bükülme dayanımı (48 döngü) (MPa) Flexural strength under constant moment after freeze-thaw (48 Cycle)	TS EN 12371	5	1,64	2,79	2,22 ± 0,82

LEYLAK plaka





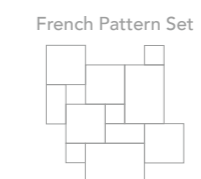
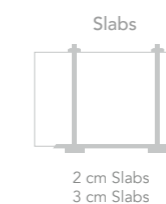
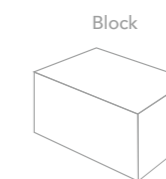
# Analysis Report

Özellik / Property	Standart Standard	Deneysel sayısı Number of tests	En küçük Lowest	En büyük Highest	Ortalama Average
<b>Termal şok sonrası yoğun yük altında bükülme dayanımı (20 döngü) (MPa)</b> <i>Flexural strength under concentrated load after thermal shock (20 Cycle)</i>	TS EN 14066	6	12,4	17,2	<b>15,3 ± 1,9</b>
<b>Termal şok sonrası kütle kaybı (-) (%)</b> <i>Decreasing of weight after thermal shock</i>	TS EN 14066	6	0,023	0,043	<b>0,033 ± 0,007</b>
<b>Termal şok sonrası P-dalga hızı değişimi (-) (%)</b> <i>Changing of P-wave velocity after thermal shock</i>	TS EN 14066	6	1,05	11,02	<b>4,71 ± 4,08</b>
<b>Su buharı direnç faktörü (kuru) (<math>\mu</math>-değeri)</b> <i>Water vapour resistance factor (dry) (<math>\mu</math>-value)</i>	TS EN 12524	-	-	-	<b>10000</b>
<b>Isı iletkenliği - Isıl direnç (W/mK)</b> <i>Thermal conductivity - Thermal resistant (<math>\lambda</math>)</i>	TS EN 12524	-	-	-	<b>3,50</b>
<b>Kayma direnci (cilalı-kuru) (SRV)</b> <i>Slip resistance (polished-dry)</i>	TS EN 14231	5	32,4	33,3	<b>32,9 ± 0,5</b>
<b>Kayma direnci (cilalı-ıslak) (SRV)</b> <i>Slip resistance (polished-wet)</i>	TS EN 14231	5	7,1	9,2	<b>8,1 ± 1,0</b>

Kimyasal analiz / Chemical analysis (%)								TS EN 15309
CaO	MgO	Fe <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Na <sub>2</sub> O	K <sub>2</sub> O	SO <sub>3</sub>	Kızdırma Kaybı / LOI
50,21	4,76	0,03	0,12	0,08	0,01	0,01	0,03	44,62

Özellik / Property	Standart Standard	Deneysel sayısı Number of tests	En küçük Lowest	En büyük Highest	Ortalama Average
<b>Sertlik (Mohs)</b> <i>Hardness (Mohs)</i>	TS 6809	4	3,5	4,0	<b>3,7 ± 0,3</b>
<b>Özgül ağırlık (g/cm<sup>3</sup>)</b> <i>Specific gravity</i>	TS EN 1936	4	2,745	2,754	<b>2,750 ± 0,005</b>
<b>Görünür yoğunluk (g/cm<sup>3</sup>)</b> <i>Apparent density</i>	TS EN 1936	6	2,725	2,736	<b>2,731 ± 0,004</b>
<b>Açık gözeneklilik (%)</b> <i>Open porosity</i>	TS EN 1936	6	0,212	0,296	<b>0,251 ± 0,035</b>
<b>Atmosfer basıncında su emme tayini (%)</b> <i>Determination of water absorption at atmospheric pressure</i>	TS EN 13755	6	0,078	0,108	<b>0,092 ± 0,013</b>
<b>Toplam gözeneklilik (%)</b> <i>Total porosity</i>	TS EN 1936	-	-	-	<b>0,704</b>
<b>Kılcal etkiye bağlı su emme katsayısının tayini (g/m<sup>2</sup>.s<sup>0,5</sup>)</b> <i>Determination of water absorption coefficient by capillarity</i>	TS EN 1925	4	0,69	0,78	<b>0,73 ± 0,05</b>
<b>Aşınma dayanımı (Metod-B/Böhme) (cm<sup>3</sup>/50cm<sup>2</sup>)</b> <i>Abrasion strength</i>	TS EN 14157	4	12,85	14,12	<b>13,70 ± 0,73</b>
<b>P-dalga hızı (m/s)</b> <i>P-wave velocity</i>	TS EN 14579	6	6271	6457	<b>6369 ± 87</b>
<b>Basınç dayanımı (MPa)</b> <i>Compressive strength</i>	TS EN 1926	6	65,3	93,8	<b>82,9 ± 10,0</b>
<b>Don sonrası basınç dayanımı (14 döngü) (MPa)</b> <i>Compressive strength after freeze-thaw (14 Cycle)</i>	TS EN 12371	6	54,3	76,6	<b>64,7 ± 8,3</b>
<b>Don sonrası kütle kaybı (-) (%)</b> <i>Decreasing of weight after freeze-thaw</i>	TS EN 12371	6	0,011	0,039	<b>0,033 ± 0,010</b>
<b>Yoğun yük altında bükülme dayanımı (MPa)</b> <i>Flexural strength under concentrated load</i>	TS EN 12372	6	17,4	20,6	<b>18,8 ± 1,1</b>
<b>Don sonrası yoğun yük altında bükülme dayanımı (14 döngü) (MPa)</b> <i>Flexural strength under constant moment after freeze-thaw (14 Cycle)</i>	TS EN 12371	6	11,4	15,2	<b>13,9 ± 1,5</b>
<b>Dona karşı dayanım (-) (%)</b> <i>Frost resistance</i>	TS EN 12371	-	-	-	<b>26,0</b>

# Olympos Beige Polished

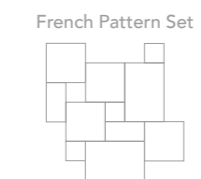
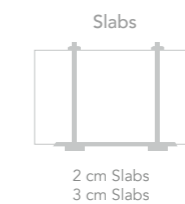
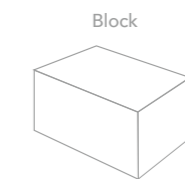


Available Sizes	
7,5 x 15	3" x 6"
15 x 15	6" x 6"
10 x 10	4" x 4"
10 x 30,5	4" x 12"
15 x 30,5	6" x 12"
20,3 x 20,3	8" x 8"
20,3 x 40,6	8" x 16"
40,6 x 40,6	16" x 16"
40,6 x 61	16" x 24"
40,6 x 81,2	16" x 32"
45,7 x 45,7	18" x 18"
20,3 x 45,7	8" x 18"
45,7 x 91,4	18" x 36"
30,5 x 30,5	12" x 12"
30,5 x 45,7	12" x 18"
30,5 x 61	12" x 24"
61 x 61	24" x 24"
61 x 91,5	24" x 36"
FRENCH PATTERN SET	
MINI PATTERN SET	

Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579



# Olympos Beige Honed

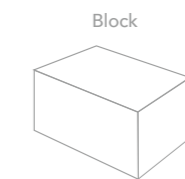


Available Sizes	
7,5 x 15	3" x 6"
15 x 15	6" x 6"
10 x 10	4" x 4"
10 x 30,5	4" x 12"
15 x 30,5	6" x 12"
20,3 x 20,3	8" x 8"
20,3 x 40,6	8" x 16"
40,6 x 40,6	16" x 16"
40,6 x 61	16" x 24"
40,6 x 81,2	16" x 32"
45,7 x 45,7	18" x 18"
20,3 x 45,7	8" x 18"
45,7 x 91,4	18" x 36"
30,5 x 30,5	12" x 12"
30,5 x 45,7	12" x 18"
30,5 x 61	12" x 24"
61 x 61	24" x 24"
61 x 91,5	24" x 36"
FRENCH PATTERN SET	
MINI PATTERN SET	

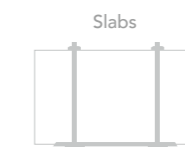
Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579



# Olympos Beige Brushed

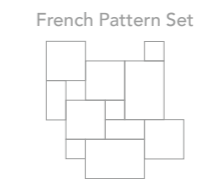


Block



Slabs

2 cm Slabs  
3 cm Slabs



French Pattern Set

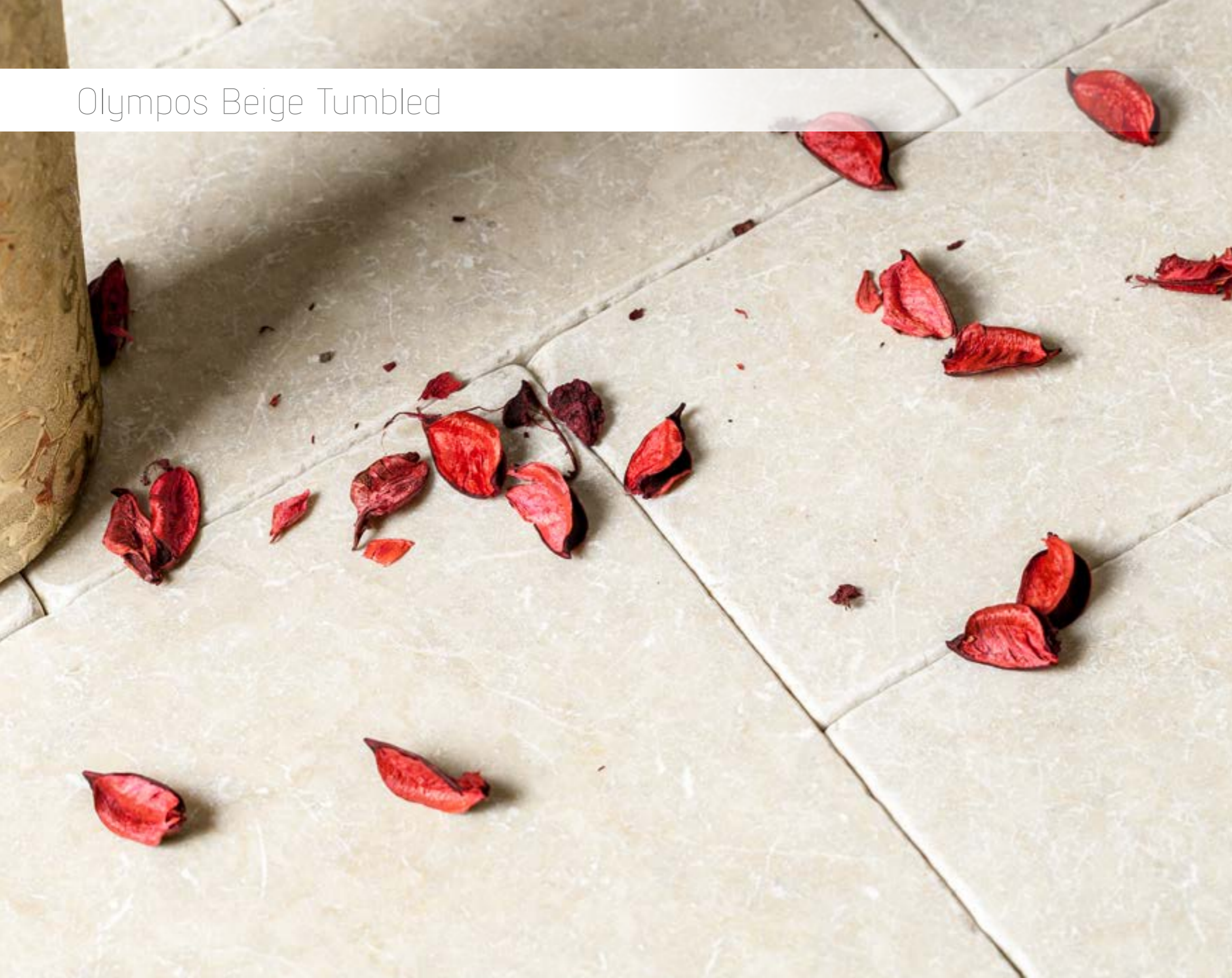
Available Sizes

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15 x 15	6" x 6"
10 x 10	4" x 4"
10 x 30,5	4" x 12"
15 x 30,5	6" x 12"
20,3 x 20,3	8" x 8"
20,3 x 40,6	8" x 16"
40,6 x 40,6	16" x 16"
40,6 x 61	16" x 24"
40,6 x 81,2	16" x 32"
45,7 x 45,7	18" x 18"
20,3 x 45,7	8" x 18"
45,7 x 91,4	18" x 36"
30,5 x 30,5	12" x 12"
30,5 x 45,7	12" x 18"
30,5 x 61	12" x 24"
61 x 61	24" x 24"
61 x 91,5	24" x 36"
FRENCH PATTERN SET	
MINI PATTERN SET	

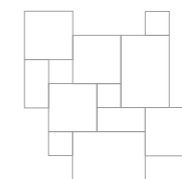
Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579



# Olympos Beige Tumbled



French Pattern Set



Available Sizes

Available Sizes	
7,5 x 15	3" x 6"
15 x 15	6" x 6"
10 x 10	4" x 4"
20,3 x 20,3	8" x 8"
40,6 x 40,6	16" x 16"
40,6 x 61	16" x 24"
45,7 x 45,7	18" x 18"
30,5 x 30,5	12" x 12"
15,25 x 30,5	6" x 12"
61 x 61	24" x 24"
61 x 91,5	24" x 36"
FRENCH PATTERN SET	
MINI PATTERN SET	

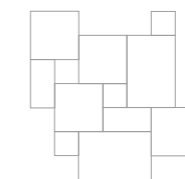
Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579



# Olympos Beige Sand-Blasted



French Pattern Set



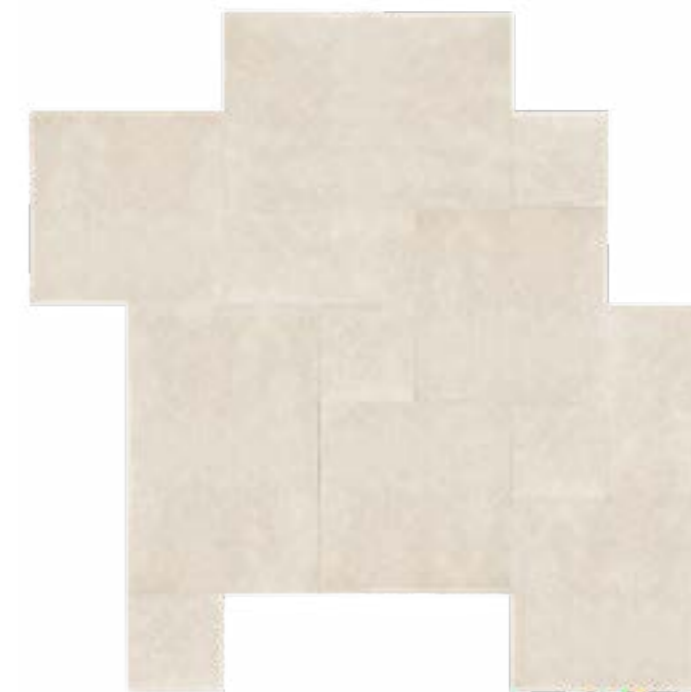
Available Sizes

Available Sizes	
7,5 x 15	3" x 6"
15 x 15	6" x 6"
10 x 10	4" x 4"
20,3 x 20,3	8" x 8"
40,6 x 40,6	16" x 16"
30,5 x 61	12" x 24"
40,6 x 61	16" x 24"
45,7 x 45,7	18" x 18"
30,5 x 30,5	12" x 12"
15,25 x 30,5	6" x 12"
15,25 x 15,25	6" x 6"
61 x 61	24" x 24"
FRENCH PATTERN SET	
MINI PATTERN SET	

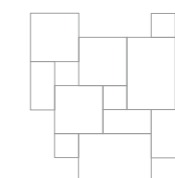
Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579



# Olympos Beige Sand-Blasted & Brushed



French Pattern Set

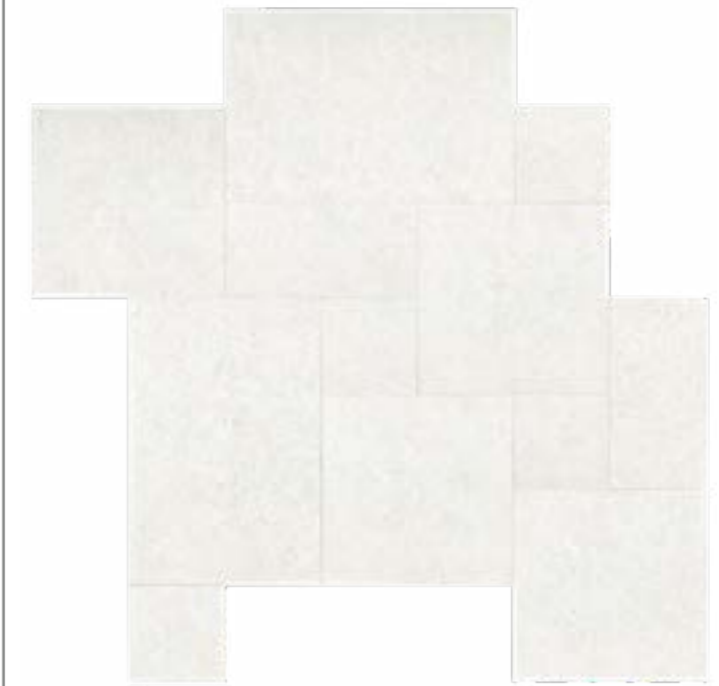


Available Sizes	
7,5 x 15	3" x 6"
15 x 15	6" x 6"
10 x 10	4" x 4"
20,3 x 20,3	8" x 8"
40,6 x 40,6	16" x 16"
30,5 x 61	12" x 24"
40,6 x 61	16" x 24"
45,7 x 45,7	18" x 18"
30,5 x 30,5	12" x 12"
15,25 x 30,5	6" x 12"
15,25 x 15,25	6" x 6"
61 x 61	24" x 24"
FRENCH PATTERN SET	
MINI PATTERN SET	

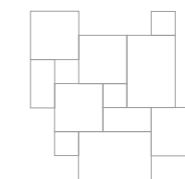
Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579



# Olympos Beige Bush Hammered



French Pattern Set



Available Sizes	
7,5 x 15	3" x 6"
15 x 15	6" x 6"
10 x 10	4" x 4"
20,3 x 20,3	8" x 8"
40,6 x 40,6	16" x 16"
30,5 x 61	12" x 24"
40,6 x 61	16" x 24"
45,7 x 45,7	18" x 18"
30,5 x 30,5	12" x 12"
15,25 x 30,5	6" x 12"
15,25 x 15,25	6" x 6"
61 x 61	24" x 24"
FRENCH PATTERN SET	
MINI PATTERN SET	

Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579





# Olympos Beige Splitface Mosaic

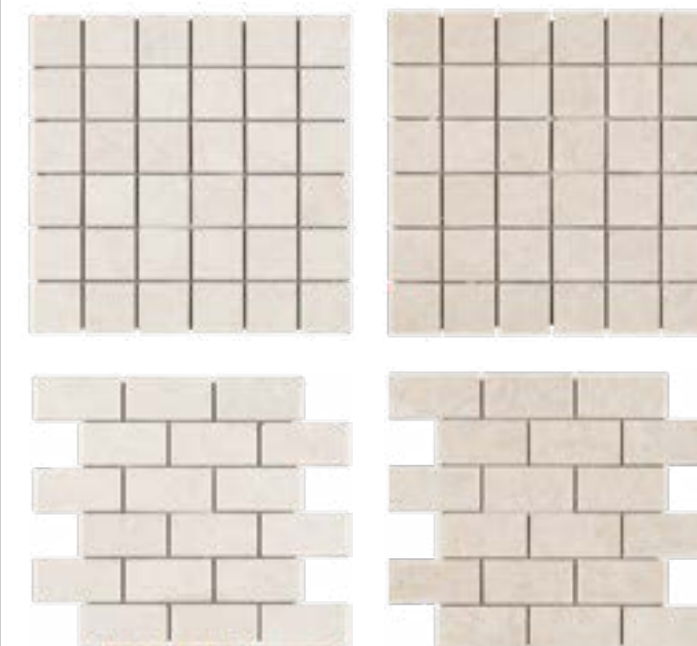


## Available Sizes

1" x 1"	2,3 x 2,3
1" x 2"	2,3 x 4,8
2" x 2"	4,8 x 4,8
2" x 4"	4,8 x 9,6

Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579

# Olympos Beige Polished Mosaic



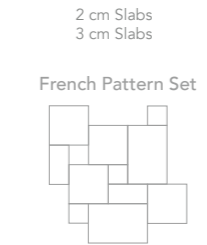
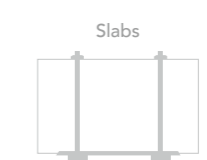
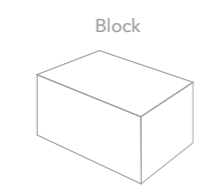
## Available Sizes

1" x 1"	2,3 x 2,3
1" x 2"	2,3 x 4,8
1" x 3"	2,3 x 9,6
2" x 2"	4,8 x 4,8
2" x 4"	4,8 x 9,6

Mini Versailles Set  
Herringbone  
Hexagon  
Random Linear  
Basket Weave

Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579

# Silver Shadow Polished



Available Sizes	
7,5 x 15	3" x 6"
15 x 15	6" x 6"
10 x 10	4" x 4"
10 x 30,5	4" x 12"
15 x 30,5	6" x 12"
20,3 x 20,3	8" x 8"
20,3 x 40,6	8" x 16"
40,6 x 40,6	16" x 16"
40,6 x 61	16" x 24"
40,6 x 81,2	16" x 32"
45,7 x 45,7	18" x 18"
20,3 x 45,7	8" x 18"
45,7 x 91,4	18" x 36"
30,5 x 30,5	12" x 12"
30,5 x 45,7	12" x 18"
30,5 x 61	12" x 24"
61 x 61	24" x 24"
61 x 91,5	24" x 36"
FRENCH PATTERN SET	
MINI PATTERN SET	

Physical And Mechanical Properties					
	Metric System		SI System		Standard
Density	gr/cm <sup>3</sup>	2.838±0,01	kg/m <sup>3</sup>	2.838±10	TS EN 1936
Real Porosity	%	4,11	%	4,11	TS EN 1936
Water Absorption Coefficient by Capillarity	g/m <sup>2</sup> .s <sup>0,5</sup>	7,29±1,3	g/m <sup>2</sup> .s <sup>0,5</sup>	7,29±1,3	TS EN 1925
Compressive Strength	Kg/cm <sup>2</sup>	953±151	Mpa	93,4±14,8	TS EN 1926
Compressive Strength after Freeze-thaw (12cyc.)	Kg/cm <sup>2</sup>	787±121	Mpa	77,2±11,8	TS EN 12371
Hardness	Mohs	3 - 3,5	Mohs	3 - 3,5	TS 6809
Water Vapour Resistance Factor (dry)	μ-değeri	283	μ-değeri	283	TS EN 12524
Thermal Conductivity (k)	W/m.K	2,57	W/m.K	2,57	TS EN 12524
Abrasion Strength (Method-B/Bohme)	cm <sup>3</sup> /50cm <sup>2</sup>	10,41±1,5	cm <sup>3</sup> /50cm <sup>2</sup>	10,41±1,5	TS EN 14157
P-Wave Velocity	m/s	5561±214	m/s	5561±214	TS EN 14579



OUTDOORS



# Wall Stones



# Split Face



### Available Sizes

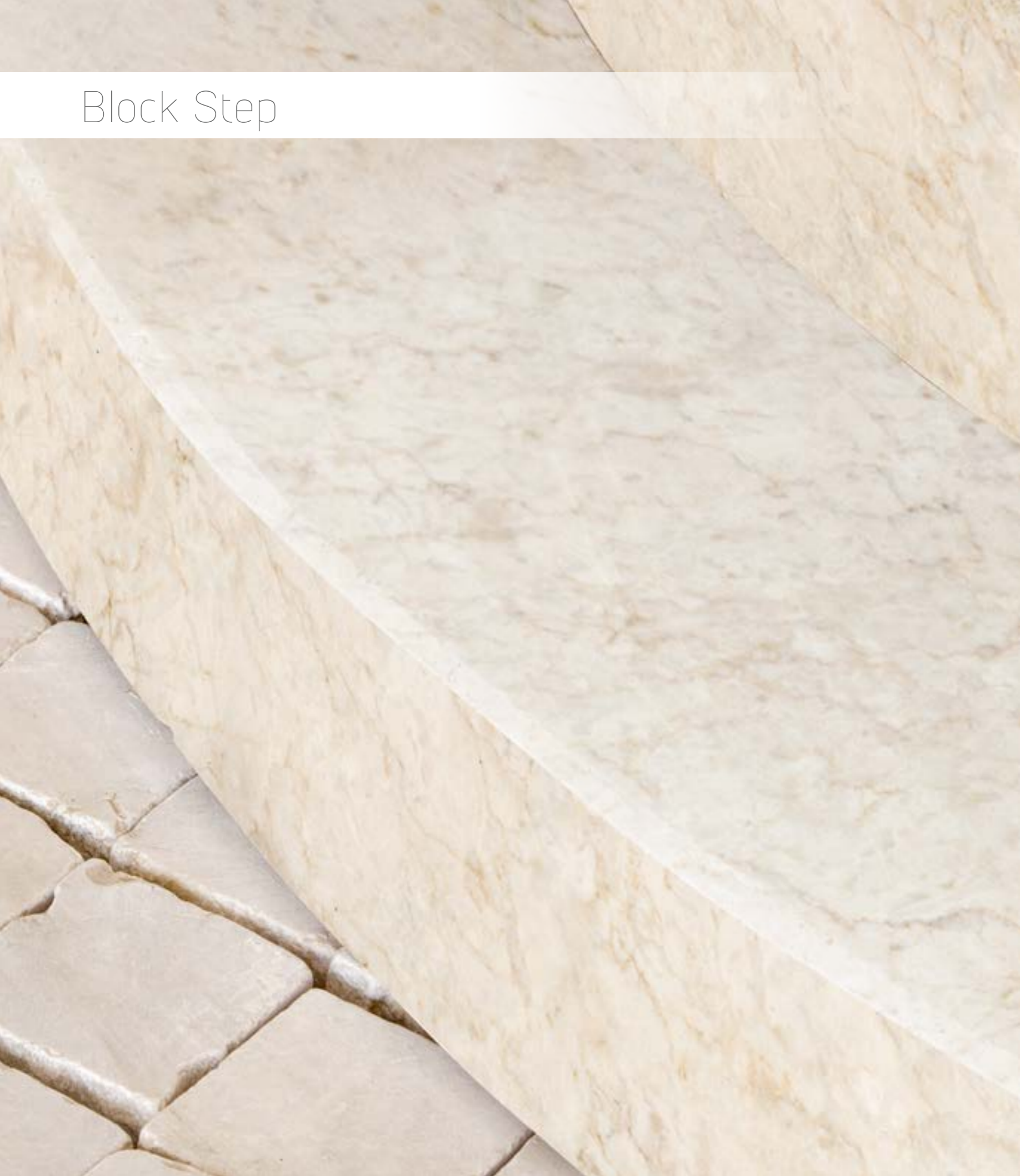
7,5 x 18 x 20-50 cm

15 x 18 x 20-50 cm

22,5 x 18 x 20-50 cm

Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579

# Block Step



# Block Step



## Available Sizes

15 x 35 x 100 cm

15 x 35 x 120 cm

15 x 35 x 150 cm

Properties	Unit	Value	Test Method
Moh's Hardness Index	-	3-4	TS 6809
Apparent Density	kg/m <sup>3</sup>	2700±3	TS EN 1936
Real Density	kg/m <sup>3</sup>	2720±16	TS EN 1936
Water absorption at atmospheric	%	0,15±0,03	TS EN 13755
Open Porosity	%	0,41±0,07	TS EN 1936
Total Porosity	%	0,74	TS EN 1936
Ratio of Fullness	%	99,26	TS 699
Flexural Strength Under Constant	MPa	12,41±1,29	TS EN 13161
Flexural Strength Under Concentrated	MPa	11,64±1,02	TS EN12372
Uniaxial Compressive Strength	MPa	131±16	TS EN 1926
Abrasion Resistance (Method B-Bohme)	cm <sup>2</sup> /50 cm <sup>2</sup>	7,93±0,53	TS EN 14157
Impact Resistance	MPa	0,69±0,36	TS 699
P- Wave Velocity	km/s	6,353±0,075	TS EN 14579

# Outdoor Collections



Cube

Available Sizes  
7,5-8 x 10 x 10 cm



Kerb

Available Sizes  
15 x 20 x 30 - 40 -50 - 60  
15 x 25 x 30 - 40 -50 - 60



Corner Stone

Available Sizes  
5 x 5 x 20 cm  
10 x 10 x 20 cm  
15 x 15 x 20 cm



## Wall Coping



### Available Sizes

- 5 x 26 x 50-100 cm
- 5 x 30 x 50-100 cm
- 6 x 26 x 50-100 cm
- 6 x 30 x 50-100 cm

## Wall Coping



## Pool Coping



### Available Sizes

- 3 x 30 x 45-60-100-120 cm
- 3 x 35 x 45-60-100-120 cm

## Pool Coping





**TEST / ANALİZLER**

Test / Analysis

\*Tuz buharıyla yıpranmaya karşı direncin tayini  
(Determination of resistance to ageing by salt mist)**TEST / ANALİZ METODU**

Test / Analysis Method

TS EN 14147

Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
<b>Numune Boyutu(mm)</b> (Sample Size)	200x200x20	200x200x20	200x200x20	200x200x20	200x200x20	200x200x20
<b>Kütle Kaybı (%)</b> (Loss in Mass)	-0,02	0,03	0,03	0,02	0,01	0,06
<b>Ortalama Sonuç (%)</b> (Average Result)	0,02					
<b>Standart Sapma</b> (Standard Deviation)	0,03					
<b>Oksitlenme</b> (Oxidation)	Yok	Yok	Yok	Yok	Yok	Yok
<b>Renk Değişimi</b> (Discoloration)	Yok	Yok	Yok	Yok	Yok	Yok
<b>Beneklerin Görünümü</b> (Appearance of Spots)	Yok	Yok	Yok	Yok	Yok	Yok
<b>Kırık Çatlak Durumu</b> (Status of the Crack)	Yok	Yok	Yok	Yok	Yok	Yok
<b>Pullanma veya Eksfoliyasyon</b> (Exfoliation)	Yok	Yok	Yok	Yok	Yok	Yok
<b>Şişme-Kabarma</b> (Swelling and Blistering)	Yok	Yok	Yok	Yok	Yok	Yok

**TEST / ANALİZLER**

Test / Analysis

\*Don tesirlerine dayanıklılık ve don sonrası basınç dayanımı deneyi (48 döngü)  
(Determination of frost resistance)(48 Cycle)**TEST / ANALİZ METODU**

Test / Analysis Method

TS EN 12371  
(Madde7.3.1.1 ve Madde7.3.1.2)

Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9	Test 10
<b>Numune Boyutu(mm)</b> (Sample Size)	50,8x50,5	50,8x50,3	50,5x50,5	50,5x50,3	50,3x50,4	50,5x50,8	50,8x50,2	50,8x50,4	50,5x50,5	50,3x50,5
<b>Kırılma Yüğü (kN)</b> (Breaking Load)	335,71	482,89	363,14	380,71	260,10	323,52	338,76	334,99	248,17	310,79
<b>Sonuç (MPa)</b> (Result)	134	193	145	152	104	129	136	134	99	124
<b>Ortalama Değer (MPa)</b> (Average Value)	135									
<b>Standart Sapma</b> (Standard Deviation)	26									
<b>Kütle Kaybı (%)</b> (Loss in Mass)	0,02	0,04	0,01	0,05	0,06	0,01	0,03	0,02	0,04	0,01
<b>Kütle Kaybı Ortalama Değer (%)</b> (Average Value of Loss in Mass)	0,03									

**TEST / ANALİZLER**

Test / Analysis

\*Tuz kristallenmesine direncin tayini  
(Determination of resistance to salt crystallization)**TEST / ANALİZ METODU**

Test / Analysis Method

TS EN 12370

Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
<b>Numune Boyutu(mm)</b> (Sample Size)	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40
<b>Sonuç (%)</b> (Result)	0,015	-0,041	-0,026	-0,035	-0,025	0,037
<b>Ortalama Değer (%)</b> (Average Value)	-0,012					
<b>Standart Sapma</b> (Standard Deviation)	0,031					



## Performans Beyannamesi

NO: OZL-CE05

**Ürün tipi:**

Kaplama amaçlı kullanılan doğal taş plakaları.(TS EN 1469)

**Tür, parti veya seri numarası:**

Olympos Bej / OZL-CE05

**Ürünün Kullanım Amacı:**

İç/Dış cephe duvar ve tabanlarında kaplama amaçlı kullanılır

**Üreticinin adı, üretim adresi, iletişim bilgileri:**

Üreticinin Adı: ÖZELLER MADENCİLİK NAKLİYAT SANAYİ VE TİCARET LTD. ŞTİ.

Üreticinin Adresi: ÇAMLICA MAH. 1763 SOK. NO:3 BUCAK / BURDUR / TÜRKİYE

**İletişim Bilgileri:**

Tel: + 90 (248) 317 12 80 Fax: + 90 (248) 317 12 84

Web: www.ozellermarble.com

**Performans Değişmezlik Sistemi:  
Sistem 4****Performans Beyanı**OZL-CE05  
TS EN 1469  
Olympos Bej

Moh's Sertlik İndeksi	3-4	-
Görünür Yoğunluk	2700 ± 3	kg/m <sup>3</sup>
Gerçek Yoğunluk	2720 ± 16	kg/m <sup>3</sup>
Atmosfer Basıncında Su Emme	0,15 ± 0,03	%
Açık Gözeneklilik	0,41 ± 0,07	%
Toplam Gözeneklilik	0,74	%
Doluluk Oranı	99,26	%
Sabit Moment Altında Eğilme	12,41 ± 1,29	MPa
Yoğun Yük Altında Bükülme Dayanımı	11,64 ± 1,02	MPa
Tek Eksenli Basınç Dayanımı	131 ± 16	MPa
Aşınma Direnci (Metot B-Böhme)	7,93 ± 0,53	cm <sup>3</sup> /50 cm <sup>2</sup>
Darbe Dayanımı	0,69 ± 0,36	MPa
P-Dalga Hızı	6,353 ± 0,075	km/s



T.C.  
TÜRK PATENT ENSTİTÜSÜ

# MARKA TESCİL BELGESİ

Marka No : 2011 13632 - Ticaret



Marka Sahibi : ÖZELLER MADENCİLİK NAK.SAN VE TİC.LTD.  
ŞTİ.  
TÜRKİYE CUMHURİYETİ  
Çamlıca Mh.1763 Sk. No: 3 bucak BURDUR  
Emtiası : 19  
İlişiktir.

Markaların Korunması Hakkında 556 Sayılı Kanun Hükmünde Kararnameye göre 21/02/2011 tarihinden itibaren ON YIL müddetle 02/08/2012 tarihinde tescil edilmiştir.

ERİB. AKIN  
Enstitü Başkanı a.  
Markalar Dairesi Başkanı

TÜRK PATENT [●] ENSTİTÜSÜ



# CERTIFICATE

57906

This certificate was given to the below stated company by UDEM International Certification Audit Training Cent. Ind. Inc. Co.

## Özeller Madencilik Nakliyat Sanayi ve Ticaret Limited Şirketi

Çamlıca Mahallesi 1763 Sokak No:3 Bucak  
BURDUR / TURKEY

# ISO 9001:2008

Scope: Production and sales of marble  
EA Code: 15

Certification Audit Date : 19.08.2015  
Decision Date : 24.08.2015  
Reissue Date : 06.09.2017  
Expiry Date : 23.08.2018



UDEM International Certification  
Audit Training Cent. Ind. Inc. Co.



Hereby, UDEM International Certification Audit Training Cent. Ind. Inc. Co. certifies that the above stated company have the appropriate management system according to the requirements of the above standard. This certificate is valid for 3 years since the decision date as long as the system is effectively maintained and surveillance audits are carried out. The validity of the certificate can be checked through [www.udem.com.tr](http://www.udem.com.tr), [www.jas-anz.org/register](http://www.jas-anz.org/register). The certificate is the property of UDEM International Certification Audit Training Cent. Ind. Inc. Co. and shall be returned if requested.

Address: Mutlukent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çarşıya - Ankara - TURKEY  
Tel: +90 312 443 03 90 (pbx) Fax: +90 312 443 03 76  
E-mail: [info@udemtd.com.tr](mailto:info@udemtd.com.tr) Web: [www.udem.com.tr](http://www.udem.com.tr)

# Analysis Report

TEST / ANALİZLER Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method				
*Tuz kristallenmesine direncin tayini (Determination of resistance to salt crystallization)		TS EN 12370				
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
Numune Boyutu (mm) (Sample Size)	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40	40x40x40
Sonuç (%) (Result)	0,015	-0,041	-0,026	-0,035	-0,025	0,037
Ortalama Değer (%) (Average Value)	-0,012					
Standart Sapma (Standard Deviation)	0,031					
Bu raporda ( * ) şeklinde işaretlenmiş muayene sonuçları TÜRKAK tarafından akreditedir. In this report ( * ) marked test / analysis results accredited by Turkish Accreditation Agency (TURKAK)						
Analiz Sorumlusu Responsible of Analysis						
Tekniker Ali ÇAKIR						
Çevre Şartları / Environmental Conditions Sıcaklık / Temperature, °C : 23,3 Rutubet / Moisture, % : 33,0						
Sonuçlar, sadece deneyi yapılan numuneye aittir. The results belong to the tested sample only.						

TEST / ANALİZLER Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method				
*Tuz buharıyla yıpranmaya karşı direncin tayini (Determination of resistance to ageing by salt mist)		TS EN 14147				
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
Numune Boyutu (mm) (Sample Size)	200x200x20	200x200x20	200x200x20	200x200x20	200x200x20	200x200x20
Kütle Kaybı (%) (Loss in Mass)	-0,02	0,03	0,03	0,02	0,01	0,06
Ortalama Sonuç (%) (Average Result)	0,02					
Standart Sapma (Standard Deviation)	0,03					
Oksitlenme (Oxidation)	Yok	Yok	Yok	Yok	Yok	Yok
Renk Değişimi (Discoloration)	Yok	Yok	Yok	Yok	Yok	Yok
Beneklerin Görünümü (Appearance of Spots)	Yok	Yok	Yok	Yok	Yok	Yok
Kırık Çatlak Durumu (Status of the Crack)	Yok	Yok	Yok	Yok	Yok	Yok
Pullanma veya Eksfoliyasyon (Exfoliation)	Yok	Yok	Yok	Yok	Yok	Yok
Şişme-Kabarma (Swelling and Blistering)	Yok	Yok	Yok	Yok	Yok	Yok

TEST / ANALİZLER Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method								
*Don tesirlerine dayanıklılık ve don sonrası basınç dayanımı deneyi (48 döngü) (Determination of frost resistance)(48 Cycle)		TS EN 12371 (Madde7.3.1.1 ve Madde7.3.1.2)								
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6	Test 7	Test 8	Test 9	Test 10
Numune Boyutu (mm) (Sample Size)	50,8x50,5	50,8x50,3	50,5x50,5	50,5x50,3	50,3x50,4	50,5x50,8	50,8x50,2	50,8x50,4	50,5x50,5	50,3x50,5
Kırılma Yüğü (kN) (Breaking Load)	335,71	482,89	363,14	380,71	260,10	323,52	338,76	334,99	248,17	310,79
Sonuç (MPa) (Result)	134	193	145	152	104	129	136	134	99	124
Ortalama Değer (MPa) (Average Value)	135									
Standart Sapma (Standard Deviation)	26									
Kütle Kaybı (%) (Loss in Mass)	0,02	0,04	0,01	0,05	0,06	0,01	0,03	0,02	0,04	0,01
Kütle Kaybı Ortalama Değer (%) (Average Value of Loss in Mass)	0,03									

# Vailla Beige Deluxe Application

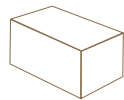


## Vailla Beige Deluxe Selection

### AVAILABLE SIZES

- |                      |                    |
|----------------------|--------------------|
| 1,2 x 30,5 x 61 cm   | 2 x 30 x 60 cm     |
| 1,2 x 61 x 61 cm     | 2 x 60 x 60 cm     |
| 1,2 x 45,7 x 91,4 cm | 2 x 60 x 120 cm    |
|                      | 2 x 80 x 80 cm     |
| 2x Slabs             | 2 x 91,4 x 91,4 cm |
| 3x Slabs             | 2 x 100 x 100 cm   |

### BLOCK



### SLABS



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### TILES



## Vailla Beige First Application



## Vailla Beige First Selection

### AVAILABLE SIZES

1,2 x 30,5 x 61 cm	2 x 30 x 60 cm
1,2 x 61 x 61 cm	2 x 60 x 60 cm
1,2 x 45,7 x 91,4 cm	2 x 60 x 120 cm
	2 x 80 x 80 cm
2x Slabs	2 x 91,4 x 91,4 cm
3x Slabs	2 x 100 x 100 cm

### BLOCK



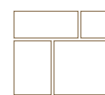
### SLABS



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### TILES



# Vailla Beige Harmony Application

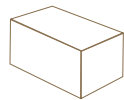


## Vailla Beige Harmony Selection

### AVAILABLE SIZES

- |                      |                    |
|----------------------|--------------------|
| 1,2 x 30,5 x 61 cm   | 2 x 30 x 60 cm     |
| 1,2 x 61 x 61 cm     | 2 x 60 x 60 cm     |
| 1,2 x 45,7 x 91,4 cm | 2 x 60 x 120 cm    |
|                      | 2 x 80 x 80 cm     |
| 2x Slabs             | 2 x 91,4 x 91,4 cm |
| 3x Slabs             | 2 x 100 x 100 cm   |

### BLOCK



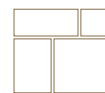
### SLABS



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### TILES



## Vailla Beige Arizona Application

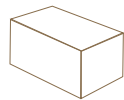


## Vailla Beige Arizona Selection

### AVAILABLE SIZES

1,2 x 30,5 x 61 cm	2 x 30 x 60 cm
1,2 x 61 x 61 cm	2 x 60 x 60 cm
1,2 x 45,7 x 91,4 cm	2 x 60 x 120 cm
	2 x 80 x 80 cm
2x Slabs	2 x 91,4 x 91,4 cm
3x Slabs	2 x 100 x 100 cm

### BLOCK



### SLABS



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### TILES



# Vailla Beige Flora Application

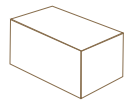


## Vailla Beige Flora Selection

### AVAILABLE SIZES

- 1,2 x 30,5 x 61 cm      2 x 30 x 60 cm
- 1,2 x 61 x 61 cm      2 x 60 x 60 cm
- 1,2 x 45,7 x 91,4 cm    2 x 60 x 120 cm
- 2 x 80 x 80 cm
- 2x Slabs                    2 x 91,4 x 91,4 cm
- 3x Slabs                    2 x 100 x 100 cm

### BLOCK



### SLABS



### TILES



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted





# Moon Cream Light Application



## Moon Cream Light Selection

### AVAILABLE SIZES

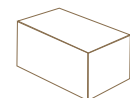
- 1,2 x 30,5 x 61 cm
- 2 x 30 x 60 cm
- 1,2 x 61 x 61 cm
- 2 x 60 x 60 cm
- 2 x 80 x 80 cm

- 2x Slabs
- 3x Slabs

### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### BLOCK



### SLABS



### TILES



# Moon Cream Medium Application



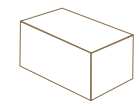
## Moon Cream Medium Selection

### AVAILABLE SIZES

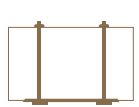
- 1,2 x 30,5 x 61 cm
- 1,2 x 61 x 61 cm
- 2 x 30 x 60 cm
- 2 x 60 x 60 cm
- 2 x 80 x 80 cm

- 2x Slabs
- 3x Slabs

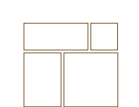
### BLOCK



### SLABS



### TILES



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted



# Moon Cream Spider Application



## Moon Cream Spider Selection

### AVAILABLE SIZES

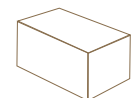
- 1,2 x 30,5 x 61 cm
- 1,2 x 61 x 61 cm
- 2 x 30 x 60 cm
- 2 x 60 x 60 cm
- 2 x 80 x 80 cm

- 2x Slabs
- 3x Slabs

### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

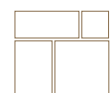
### BLOCK



### SLABS



### TILES



# Moon Cream Natural Application



## Moon Cream Natural Selection

### AVAILABLE SIZES

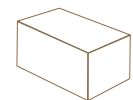
- 1,2 x 30,5 x 61 cm
- 1,2 x 61 x 61 cm
- 2 x 30 x 60 cm
- 2 x 60 x 60 cm
- 2 x 80 x 80 cm

- 2x Slabs
- 3x Slabs

### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### BLOCK



### SLABS



### TILES



## Ivory Beige First Application

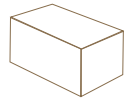


## Ivory Beige First Selection

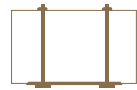
### AVAILABLE SIZES

2x Slabs	2 x 30 x 60 cm
3x Slabs	2 x 60 x 60 cm
	2 x 80 x 80 cm

### BLOCK



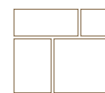
### SLABS



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### TILES



# Ivory Beige Standart Application

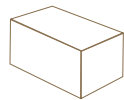


## Ivory Beige Standart Selection

### AVAILABLE SIZES

- 2x Slabs 2 x 30 x 60 cm
- 3x Slabs 2 x 60 x 60 cm
- 2 x 80 x 80 cm

### BLOCK



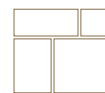
### SLABS



### AVAILABLE FINISH

- Polished
- Honed
- Brushed
- Sandblasted

### TILES



# SHOWROOM



# Analysis Report

Rock Name	White Emperador			Test By/Date	MB/15-10-19	
Rock Type	Dolomitic marble			Checked/Date	MMc/15-10-19	
Sandberg Sample Ref.	Oven Dried Mass in Air (g)	Density of Water (kg/m <sup>3</sup> )	Vacuum Saturated Mass in Air (g)	Vacuum Saturated Mass in Water (g)	Open Porosity (%)	Apparent Density (kg/m <sup>3</sup> )
G49237 a	317.44	998	321.67	204.08	3.6	2690
G49237 b	320.53	998	324.16	205.92	3.1	2710
G49237 c	318.47	998	321.39	204.89	2.5	2730
G49237 d	314.56	998	317.37	201.87	2.4	2720
G49237 e	324.39	998	328.20	208.32	3.2	2700
G49237 f	331.07	998	334.43	212.64	2.8	2710
Mean					2.9	2710

Rock Name	White Emperador			Test By/Date	HO/18-11-19	
Rock Type	Dolomitic marble			Checked/Date	MB/18-11-19	
Sandberg Sample Reference	Breaking Load (N)	Specimen Span (mm)	Specimen Width (mm)	Specimen Thickness (mm)	Flexural Strength (MPa)	Observations
G49240 a	520	150	72.1	11.7	11.9	Normal Failure
G49240 b	440	150	73.2	12.3	8.9	Normal Failure
G49240 c	Specimen split along vein during cutting and could not be tested					
G49240 d	510	150	72.9	12.4	10.2	Normal Failure
G49240 e	670	150	73.6	12.1	14.0	Normal Failure
G49240 f	740	150	72.5	12.4	14.9	Normal Failure
G49240 g	750	150	71.5	11.9	16.7	Normal Failure
G49240 h	730	150	72.6	11.8	16.2	Normal Failure
G49240 j	780	150	72.8	11.7	17.6	Normal Failure
G49240 k	670	150	73.0	12.2	13.9	Normal Failure
Mean					13.8	
Std. Dev.					3.0	
Var. Coef.					0.2	

Rock Name	White Emperador			Test By/Date	HO/18-11-19		
Rock Type	Dolomitic marble			Checked/Date	MB/19-11-19		
Sandberg Sample Ref.	Visual observations post 20 cycles	Initial mass (g)	Final mass (g)	Change in mass (%)	Initial dynamic elastic modulus (MPa)	Final dynamic elastic modulus (MPa)	Change in dynamic elastic modulus (%)
G49240 a	No changes in visual appearance or apparent material loss	424.70	410.60	3.32	31048.57	29991.88	3.40
G49240 b	No changes in visual appearance or apparent material loss	444.10	444.00	0.02	28962.19	28949.23	0.04
G49240 c	Specimen split along vein during cutting and could not be tested						
G49240 d	No changes in visual appearance or apparent material loss	444.30	444.30	0.00	29822.61	29783.38	0.13
G49240 e	No changes in visual appearance or apparent material loss	435.20	435.20	0.00	3007.85	2985.65	0.74
G49240 f	No changes in visual appearance or apparent material loss	445.40	445.30	0.02	31591.50	31584.41	0.02
G49240 g	No changes in visual appearance or apparent material loss	427.60	427.40	0.05	31115.60	31053.85	0.20
G49240 h	No changes in visual appearance or apparent material loss	423.20	423.20	0.00	29541.16	29475.85	0.22
G49240 j	No changes in visual appearance or apparent material loss	424.40	424.30	0.02	31059.18	30998.27	0.20
G49240 k	No changes in visual appearance or apparent material loss	436.40	436.40	0.00	28163.53	28119.48	0.16
Mean				0.34			0.51



# AFYON GOLD



## GENERAL DIMENSIONS;

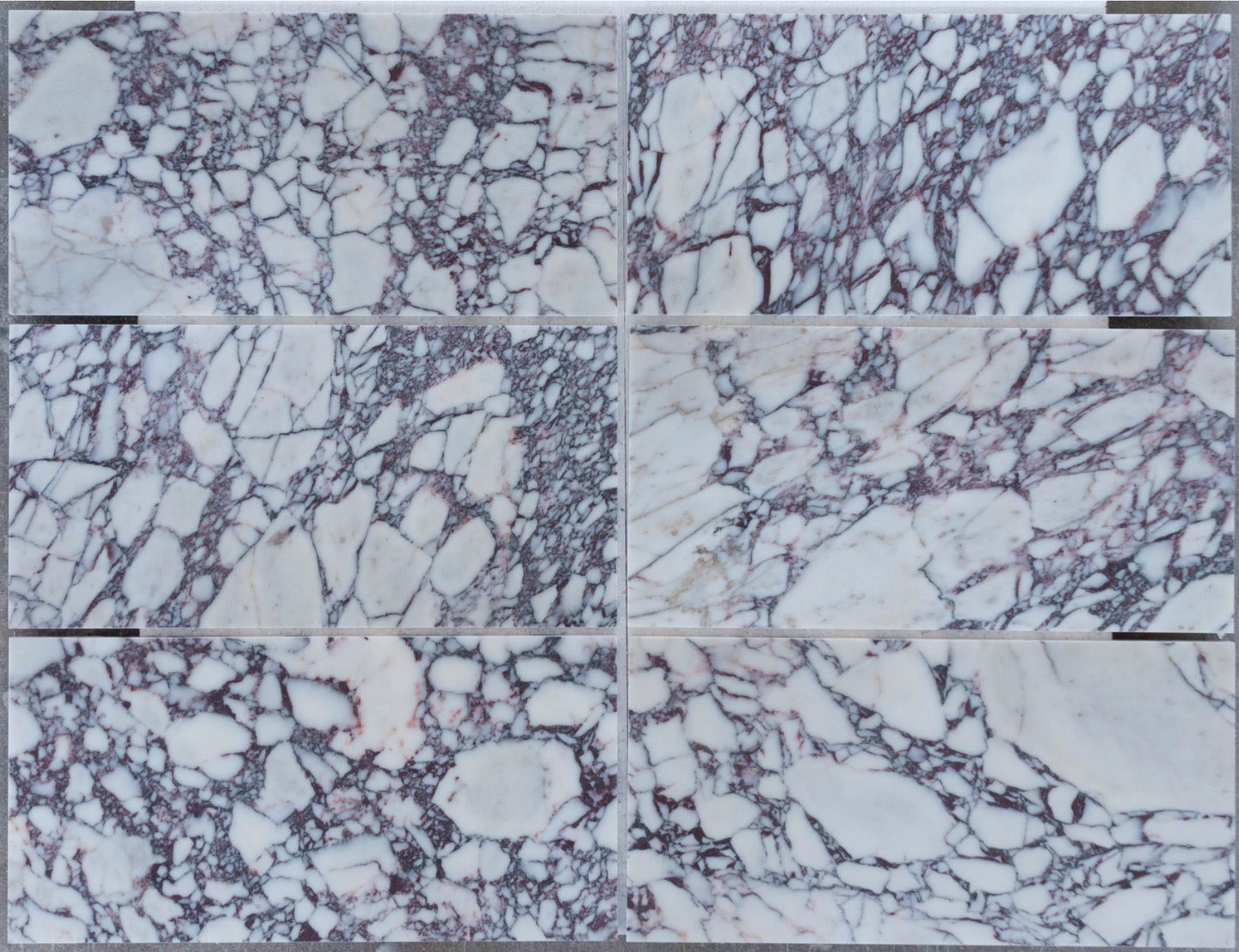
10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.

# AFYON GOLD APPLICATION PROJECT



# AFYON VIOLET SELECTION



## GENERAL DIMENSIONS;

10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.

# AFYON VIOLET



# SUGAR VIOLET



## GENERAL DIMENSIONS;

10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.

# SUGAR VIOLET APPLICATION PROJECT





# FOREST GREY



## GENERAL DIMENSIONS;

10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.



# FOREST GREY APPLICATION PROJECT



# TOPAZ WHITE



## GENERAL DIMENSIONS;

10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.

# TOPAZ WHITE APPLICATION PROJECT



# DIAMOND BLUE



## GENERAL DIMENSIONS;

10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.

# DIAMOND BLUE APPLICATION PROJECT



# TROY CLASSIC TRAVERTINE





## GENERAL DIMENSIONS;

10mm x 6"x6"

10mm x 6"x12"

10mm x 12"x12"

10mm x 12"x24"

10mm x 18"x18"

10mm x 18"x36"

10mm x 24"x24"

10mm x 24"x36"

10mm x 24"x48"

We can produce another dimensions.

# ROSA FANTASTIC



## GENERAL DIMENSIONS;

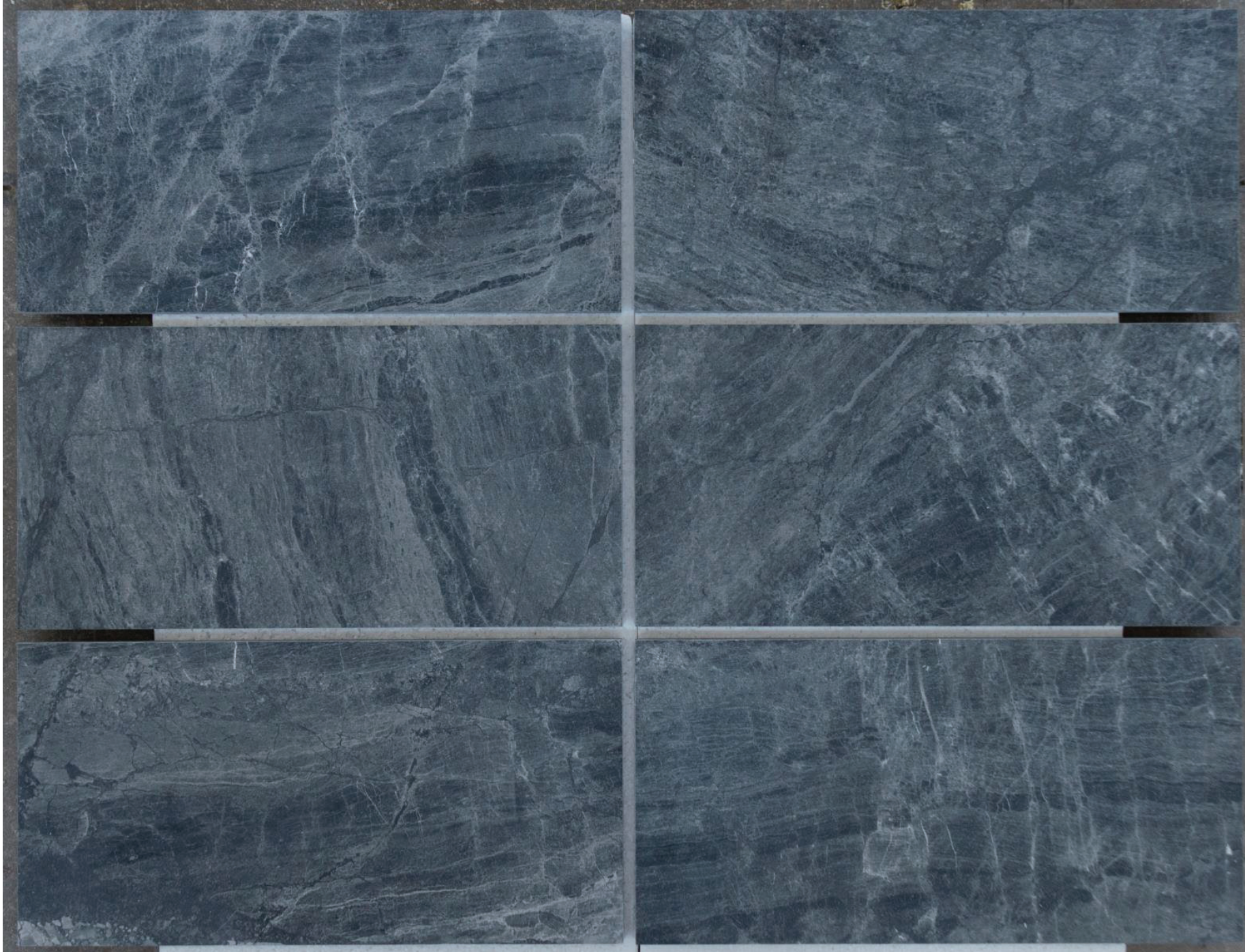
10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.





# PLATINIUM GREY



## GENERAL DIMENSIONS;

10mm x 6"x6"  
10mm x 6"x12"  
10mm x 12"x12"  
10mm x 12"x24"  
10mm x 18"x18"  
10mm x 18"x36"  
10mm x 24"x24"  
10mm x 24"x36"  
10mm x 24"x48"

We can produce another dimensions.

# ICE BLUE

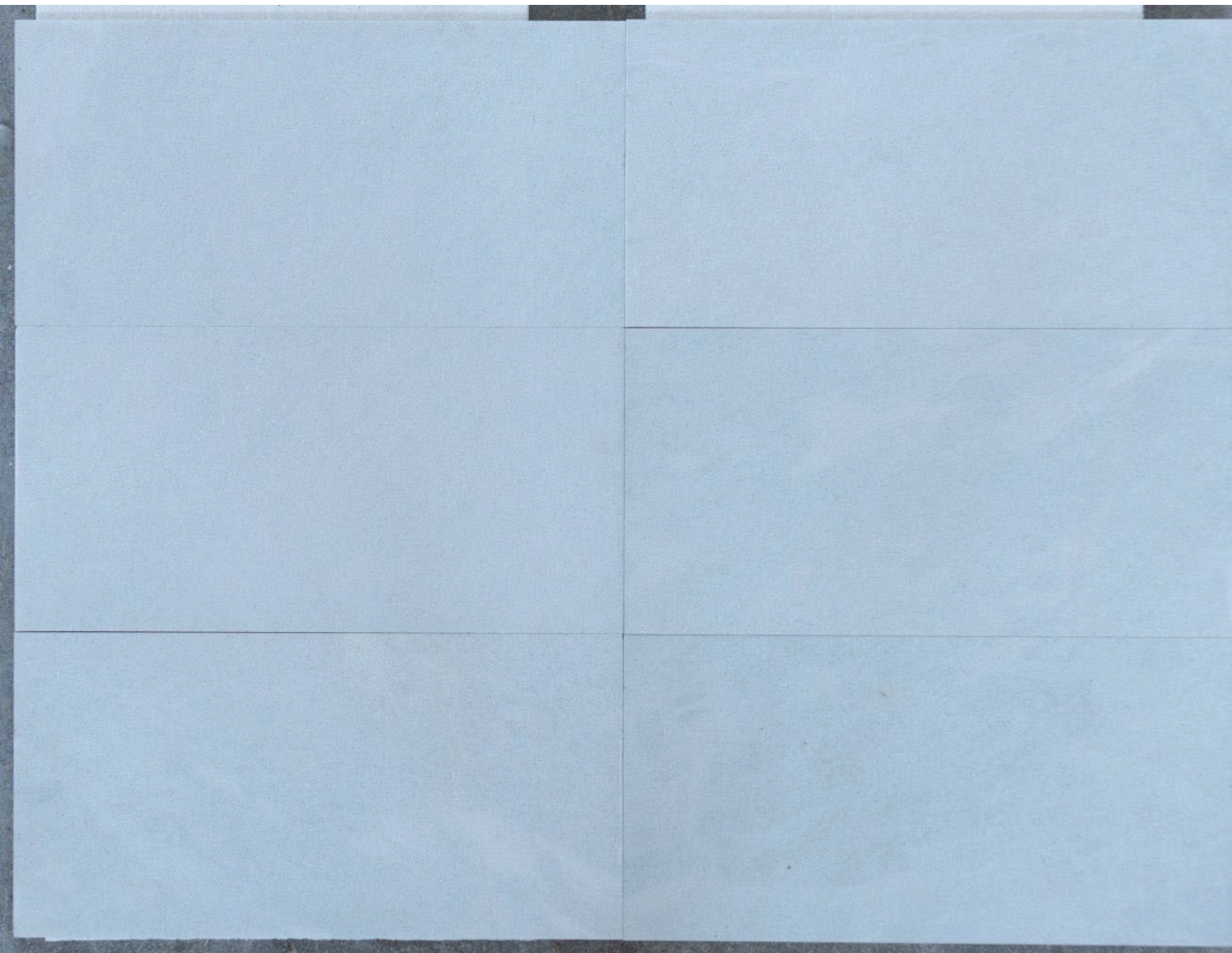


## GENERAL DIMENSIONS;

10-30-50mm x 6"x6"  
10-30-50mm x 6"x12"  
10-30-50mm x 12"x12"  
10-30-50mm x 12"x24"  
10-30-50mm x 18"x18"  
10-30-50mm x 18"x36"  
10-30-50mm x 24"x24"  
10-30-50mm x 24"x36"  
10-30-50mm x 24"x48"

10-30mmxFrench Pattern Set  
10-30mmxRoman Pattern Set  
10-30mmx Jumbo Set 30mmx50mmx  
Bullnose Coping 30mmx50mmx  
Modern Coping

We can produce another dimensions.



DRY



WET

# ICE APPLICATION PROJECT



# ARGENTO (SANDBLASTED)



## GENERAL DIMENSIONS;

10-30-50mm x 6"x6"  
10-30-50mm x 6"x12"  
10-30-50mm x 12"x12"  
10-30-50mm x 12"x24"  
10-30-50mm x 18"x18"  
10-30-50mm x 18"x36"  
10-30-50mm x 24"x24"  
10-30-50mm x 24"x36"  
10-30-50mm x 24"x48"

10-30mmxFrench Pattern Set  
10-30mmxRoman Pattern Set  
10-30mmx Jumbo Set 30mmx50mmx  
Bullnose Coping 30mmx50mmx  
Modern Coping

We can produce another dimensions.



WET



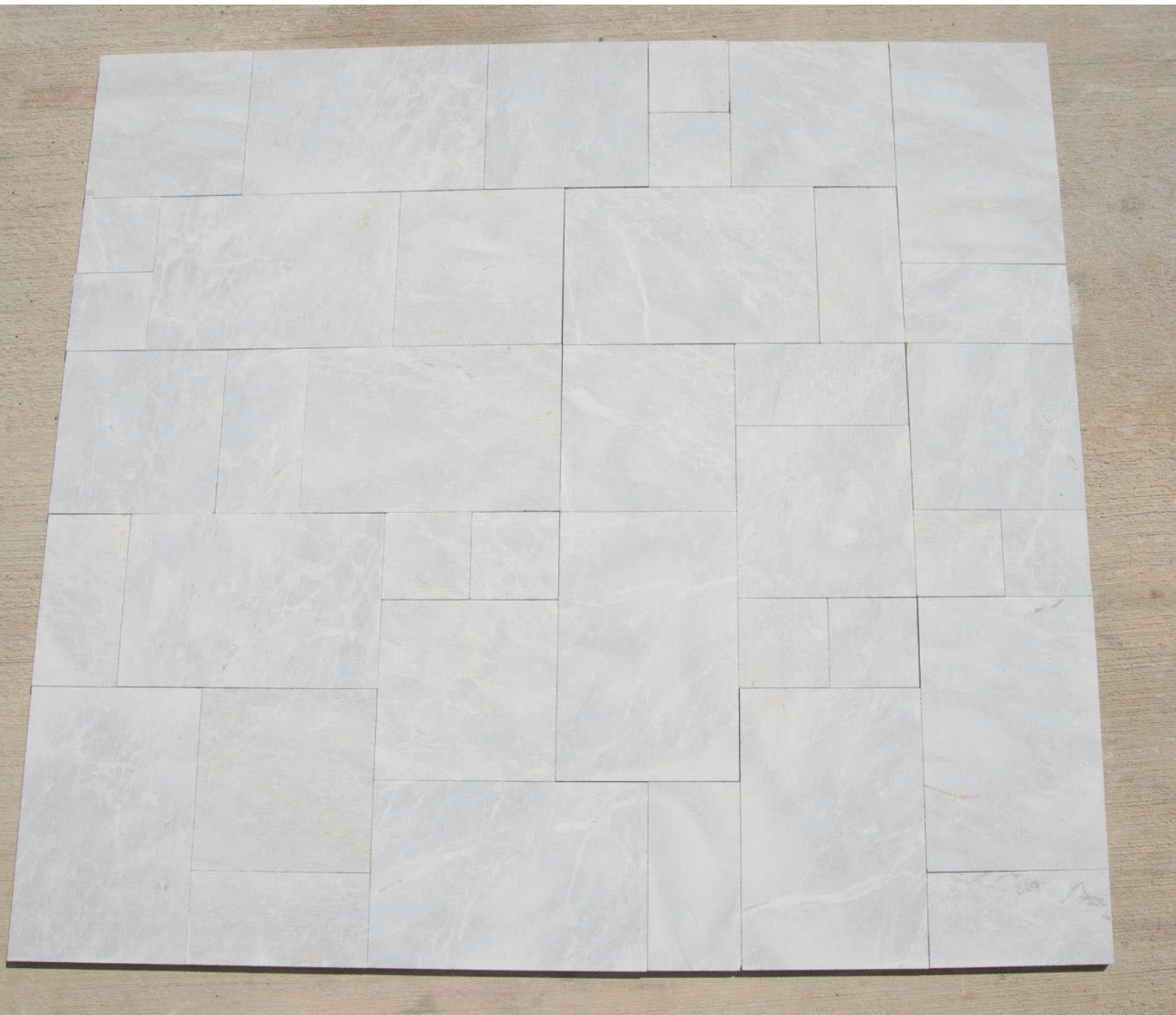
DRY

# ARGENTO APPLICATION PROJECT





# FOREST GREY



## GENERAL DIMENSIONS;

10-30-50mm x 6"x6"  
10-30-50mm x 6"x12"  
10-30-50mm x 12"x12"  
10-30-50mm x 12"x24"  
10-30-50mm x 18"x18"  
10-30-50mm x 18"x36"  
10-30-50mm x 24"x24"  
10-30-50mm x 24"x36"  
10-30-50mm x 24"x48"

10-30mmxFrench Pattern Set  
10-30mmxRoman Pattern Set  
10-30mmx Jumbo Set 30mmx50mmx  
Bullnose Coping 30mmx50mmx  
Modern Coping

We can produce another dimensions.



DRY

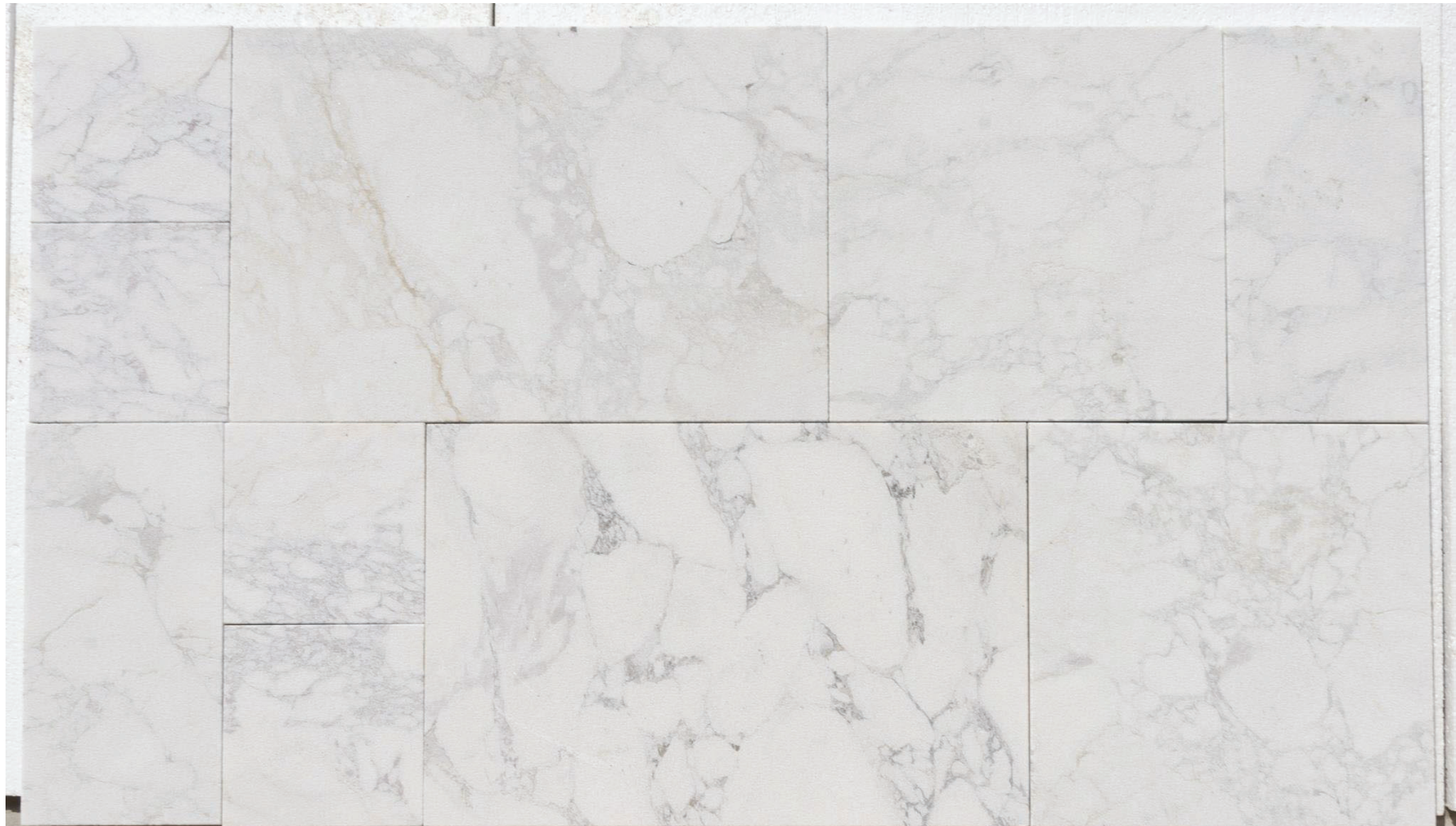


WET

# ANOTHER FINISHED



# VIOLETTA MARBLE



DRY



WET





# Analysis Report

TEST / ANALİZLER Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method				
*Pandül Deneş Donanımıyla Kayma Direncinin Tayini (Islak Zeminde) (Determination of the Slip Resistance by Means of the Pendulum Tester) (Wet Conditions)		TS EN 14231: 2004				
Deneş Başlama Tarihi (Test Start Date)	11.11.2019		Deneş Bitiş Tarihi (Test Finish Date)		12.11.2019	
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
Numune Boyutu (mm) (Sample Dimensions)	200x100x20	200x100x20	200x100x20	200x100x20	200x100x20	200x100x20
Numune Sıcaklığı (Sample Temperature)	18,2	18,2	18,2	18,2	18,2	18,2
Düzeltilme Faktörü (Correction Factor)	0,4	0,4	0,4	0,4	0,4	0,4
Ortalama Düzeltilme Faktörü (Average Correction Factor)	0,4					
Sikaladan Okunan Değer (SRV) (The Value Read of Scale)	15	13	16	14	13	16
Sikaladan Okunan Değer (180° döndürülmüş durumda) (SRV) (The Value Read of Scale - Rotated 180°)	16	14	15	13	12	14
Ortalama Değer (SRV) (Average Value)	14,3					
Düzeltilmiş Ortalama Değer (SRV) (Correction Average Value)	13,9					
Standart Sapma (SRV) (±) (Standard Deviation)	1,4					

TEST / ANALİZ Test / Analysis		TEST / ANALİZ METODU Test / Analysis Method				
*Pandül Deneş Donanımıyla Kayma Direncinin Tayini (Kuru Zeminde) (Determination of the Slip Resistance by Means of the Pendulum Tester) (Dry Conditions)		TS EN 14231: 2004				
Deneş Başlama Tarihi (Test Start Date)	11.11.2019		Deneş Bitiş Tarihi (Test Finish Date)		12.11.2019	
Test No	Test 1	Test 2	Test 3	Test 4	Test 5	Test 6
Numune Boyutu (mm) (Sample Dimensions)	200x100x20	200x100x20	200x100x20	200x100x20	200x100x20	200x100x20
Numune Sıcaklığı (Sample Temperature)	20,1	20,0	20,1	20,1	20,0	20,0
Düzeltilme Faktörü (Correction Factor)	0	0	0	0	0	0
Ortalama Düzeltilme Faktörü (Average Correction Factor)	0					
Sikaladan Okunan Değer (SRV) (The Value Read of Scale)	25	26	24	24	25	26
Sikaladan Okunan Değer (180° döndürülmüş durumda) (SRV) (The Value Read of Scale - Rotated 180°)	24	25	25	24	25	24
Ortalama Değer (SRV) (Average Value)	24,8					
Düzeltilmiş Ortalama Değer (SRV) (Correction Average Value)	24,8					
Standart Sapma (SRV) (±) (Standard Deviation)	0,8					



## Our Offices



### Turkey

HASANOĞLU İHRACAT VE DIŐ TİCARET LİMİTED ŐİRKETİ

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