

WONDER STONES FROM TURKEY & EXCLUSIVE BUILDING MATERIALS

- STAINED GLASS
- CRYSTALLUMINARIES
- LIGHTHINGS

Presented by
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(709885T)

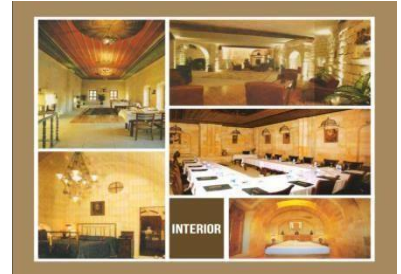


TABLE OF CONTENT

1. Wonder Stones from Cappadocia, Turkey (Page 4)
2. Benefit of Wonder Stones (Page 5)
3. Technical characteristic of Wonder Stones (Page 6)
4. Mechanical characteristic of Wonder Stones (Page 7)
5. Lab tests and physical-mechanical properties of Wonder Stones (Page 8)
6. Wonder Stones quarry process (Page 10)
7. Samples of Wonder Stones Journey in Real Estate & Property Development (Page 11)
8. Wonder Stones widely used for exterior and interior of mosques projects reflecting the rich Ottoman Empire architectural design (Page 12)
9. Wonder stones used in Mecca's Copullas & various types of building projects (Page 14)
10. Wonder Stones products and samples (Page 17)
11. Stained glass used as part of interior design & architecture for projects (Page 18)
12. Crystal luminaries/ lightings (Page 19)

MAP OF TURKEY



MAP OF CAPPADOCIA, TURKEY



Wonder Stones from Cappadocia, Turkey

Cappadocia lies in central Anatolia, in the heartland of what is now Turkey. The relief consists of a high plateau over 1000m in altitude that is pierced by volcanic peaks, with Mount Erciyes (ancient Argaeus) near Kayseri (ancient Caesarea) being the tallest at 3916m.

Due to its inland location and high altitude, Cappadocia has a markedly continental climate, with hot dry summers and cold snowy winters. Rainfall is sparse and the region is largely semi-arid.



Benefits of Wonder Stones

- The widespread usage of the stones as a basic building materials in Turkey with its rich architectural design is duly based on the stones special features in; cooling the interior from the hot summer and warming the interior from the cold winter.
- Besides its great advantage for heat insulation, the stone also provides soundproof benefit - better than other natural stones and bricks.
- The stones used in Southeast Anatolia is splinter, minaret rock and air stone (white stone) whereby the air stone is physically soft and white like chalk hence, can be easily cut, carved and processed.
- For a hot tropical country like Malaysia, the interior temperature can cool faster besides it insulates against the hot whether outside.
- Since it is a natural stone, so no need for insulation and painting unlike the conventional building using brick and mortar.
- No spider-web problem and any need for repainting, hence long term maintenance cost is very minimal.
- Durable as it lasts for 500 years, as long as the Earth continues to spin around its axis.
- If a bedroom were to be cladded with the special stones, a basic recommendation of 8 hours of sleep can be reduced to 3-4 hours in view of it emits positive ion/ “energy recharge” properties.
- Due to its high heat resistant of up to 2000°C, it is also used in the making of high temperature ovens.

Technical Characteristics

- **Water Consistency:** Recent surveys show that; Having stones is 31.1% and the proportion of water suction is 24.83% completely submerged in water.
- **Water Permeability:** The examples, which are dried in normal heat, shows that the stones are completely water resistant.
- **The Effects Of The Heat:** In most examples, deformation starts at 310°C ; but, in this stones it starts at 1280°C and even with an extra pressure, there are no deformation and fusion.
- **Hardness:** According to shore hardness tool tests, the shore hardness degrees of the stones are between 55-65.

The Mechanical Characteristics

- Pressure resistance with one axis = in three different examples, the results 150- 170-205- kg/cm² are found.
- Pressure Resistance with Three Axis= this is MOHR diagram given in addition.
- Cohesion is 28-40 kg/cm² and interior friction angle is 48 go

Pulling Resistance = 18-23 kg/cm²

Bending Resistance = 13-19 kg/cm²

Pointed Loading Resistance = 9-14 kg/cm²

- Static and elasticity module is Ed 4.7.000 km/cm²

**LAB TEST AND
PHYSICAL
-
MECHANICAL
PROPERTIES OF
WONDER STONES**



HACETTEPE ÜNİVERSİTESİ
MADEN MÜHENDİSLİĞİ BÖLÜMÜ
KAYA MEKANİĞİ LABORATUVARI



BÖLTAŞ YAPI TAŞLARI TEKNİK ANALİZ SONUCU

STANDART ÖZELLİKLER	NEYŞEHİR SARI- BEYAZI (Yellow- White)	KAPADOKYA GÜLÜ (Capadocia Rose)	KAHVE MOZAİK (Brown Mosaic)	ERCİYES KARASI (Erciyes Dark)	ASMALI GRI (Asmalı Gray)	ÇÖL SARISI (Desert Yellow)	ANTİK KAHVE (Antique Brown)	KIZIL ÖTESİ (Red Beyond)	NOCHE TRAVERTİN (Noche Travertine)
Özgül Ağırlık (Specific Gravity)	2.17	2.15	2.34	2.37	2.11	2.11	2.18	2.3	2.64
Birim Hacim Ağırlık (Unit Volume Weight)	1.49	1.55	1.92	1.5	1.87	1.56	1.91	1.96	2.39
Su Emme Akıncılığı (Water Absorption)	Kütlece (By Weight)	17.43%	17.44%	7.76%	19.7%	11.24%	18.72%	12.59%	11.20%
	Hacimce (By Volume)	25.80%	26.28%	14.85%	29.51%	20.65%	29.20%	23.95%	21.94%
Doluolu Oran (Ratio Fullness)	68.50%	72.07%	82.18%	63.35%	88.67%	74.18%	87.60%	85.15%	90.53%
Genişlik (Porosity)	31.50%	27.93%	17.82%	36.65%	11.33%	25.82%	12.40%	14.85%	9.47%
Don Kayla (Freezing and Thawing)	1.74%	0.78%	0.07%	0.10%	0.14%	1.48%	0.59%	0.44%	0.09%
Basınç Dayanımı (Compressive Strength)	350.6 kgf/cm ²	214.8 kgf/cm ²	264.8 kgf/cm ²	187.5 kgf/cm ²	388.57 kgf/cm ²	187.8 kgf/cm ²	293.5 kgf/cm ²	370.5 kgf/cm ²	426.7 kgf/cm ²
Eğilme Direnci (Strength to Bending)	91 kgf/cm ²	39.6 kgf/cm ²	53 kgf/cm ²	42.8 kgf/cm ²	51.6 kgf/cm ²	48.1 kgf/cm ²	69.1 kgf/cm ²	68.9 kgf/cm ²	63.7 kgf/cm ²
Darbe Dayanımı (Strength to Blow)	10.8 kg/cm/cm ³	16.8 kg/cm/cm ³	16.8 kg/cm/cm ³	20 kg/cm/cm ³	30.4 kg/cm/cm ³	12 kg/cm/cm ³	30 kg/cm/cm ³	16.8 kg/cm/cm ³	20.0 kg/cm/cm ³



Hacettepe University
Mining Engineering Faculty
Rock Mechanic Laboratories



Böltaş Natural Stone
Akarsay Yolu 13.km
80100 Nevşehir / TURKEY

The company Böltaş Natural Stone had bring nine different colors volcanic natural stones. Physical and Mechanical experiments had done with the TS Standards TSE 699. Natural Stone Examination and Experiment Methodology. Each of the stones' result had given on the tables. The volcanic stones are specified in scientific literature Andesite, Tuff, and Tuffic Basalt. According to the result, these stones are suitable as a building material.

Regards

B. Ünver

Prof. Dr. Bahadır ÜNVER



HACETTEPE UNIVERSITY
Mining Engineering Faculty
Rock Mechanic Laboratories



BÖLTAŞ NATURAL STONE TECHNICAL ANALYSIS REPORT

STANDART ÖZELLİKLER	Yellow-White	Capadocia Rose	Brown Mosaic	Erciyes Dark	Asmalı Grey	Desert Yellow	Antique Brown	Red Beyond	Noche Travertine
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WONDER STONES QUARRY PROCESS

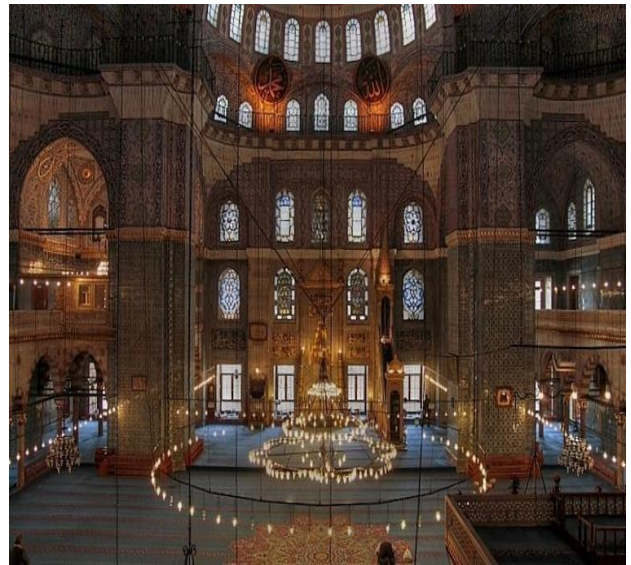


SAMPLES OF WONDER STONES JOURNEY IN REAL ESTATE & PROPERTY DEVELOPMENT

WIDELY USED FOR EXTERIOR & INTERIOR OF MOSQUES PROJECTS REFLECTING THE RICH OTTOMAN EMPIRE ARCHITECTURAL DESIGN



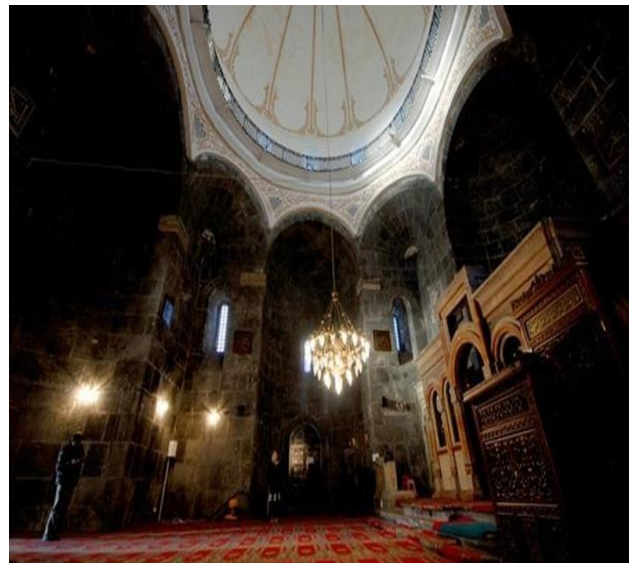
Ortaköy Camii



Eminönü Yeni Cami



Selimiye Camii



Kümbet Camii

Wonder Stones used in Mecca's Copulas & various types of building projects



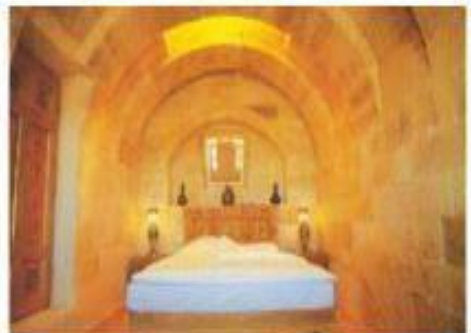


BUILDINGS



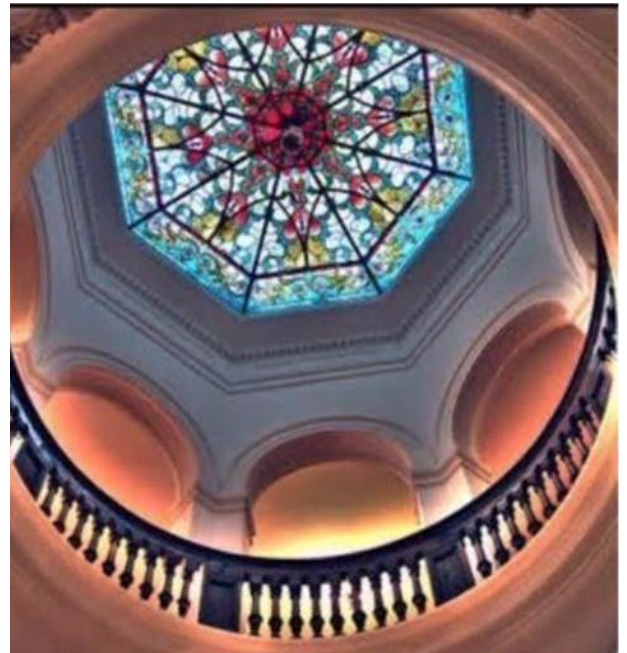
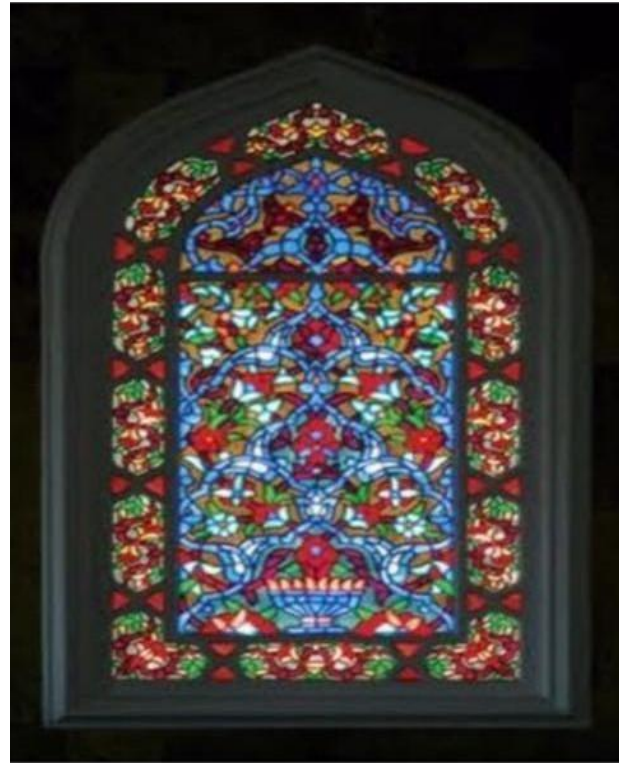
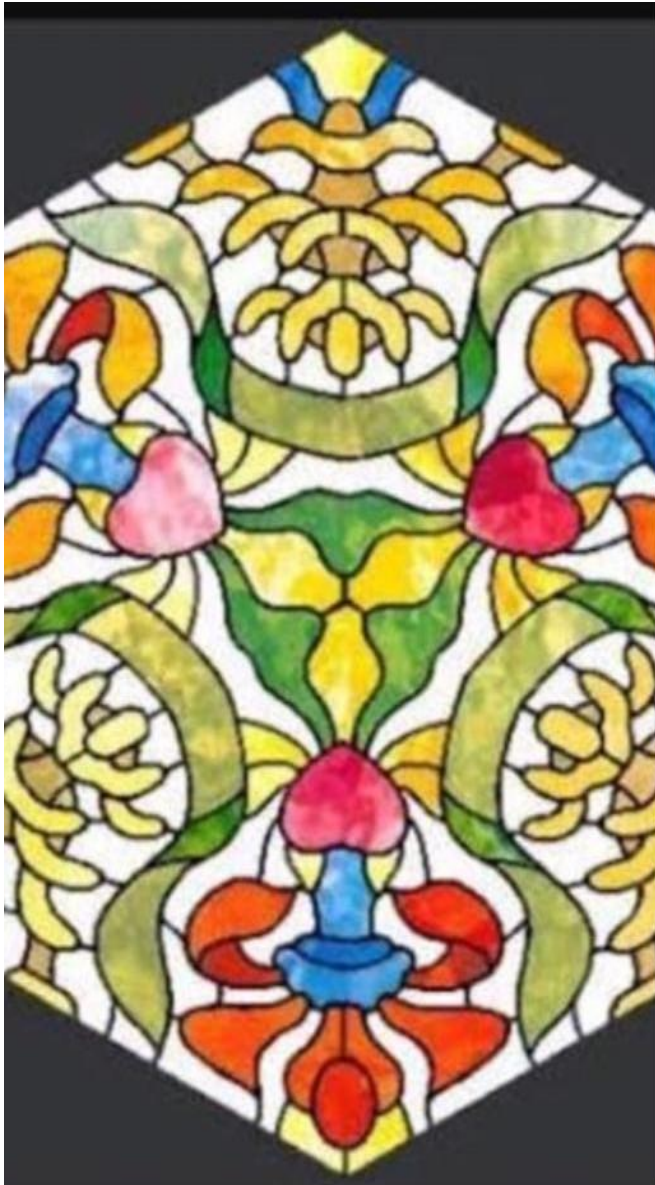


INTERIOR





WONDER STONES SAMPLES & COLOR



STAINED GLASS USED AS
PART OF INTERIOR DESIGN
& ARCHITECTURE
PROJECTS



CRYSTAL LUMINARIES/LIGHTINGS



Thank You

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