

SUELO TÉCNICO PIEDRA NATURAL

A R Q M A T



HIGH PERFORMANCE NATURAL STONE PANELS

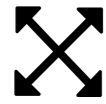
Nature uses the hexagonal shapes as construction patterns. Above all we can find in inorganic forms such as: snowflakes, crystals of minerals (aragonite), atomic structure of elements (carbon), solidified columns of basalt. Making an efficient internal and external order.

Some living beings have also seen the advantages of hexagonal organization and utilization, such as honeycombs of bees.



	NATURAL STONE	STONESIZE
Weight <small>kg/m²</small>	56	21
Flexural Strength <small>kg/m²</small>	-	19
Installation <small>min</small>	10	5
Thickness <small>max size</small>	20-30mm	5mm





BIG



LIGHT



STRONG



EASY

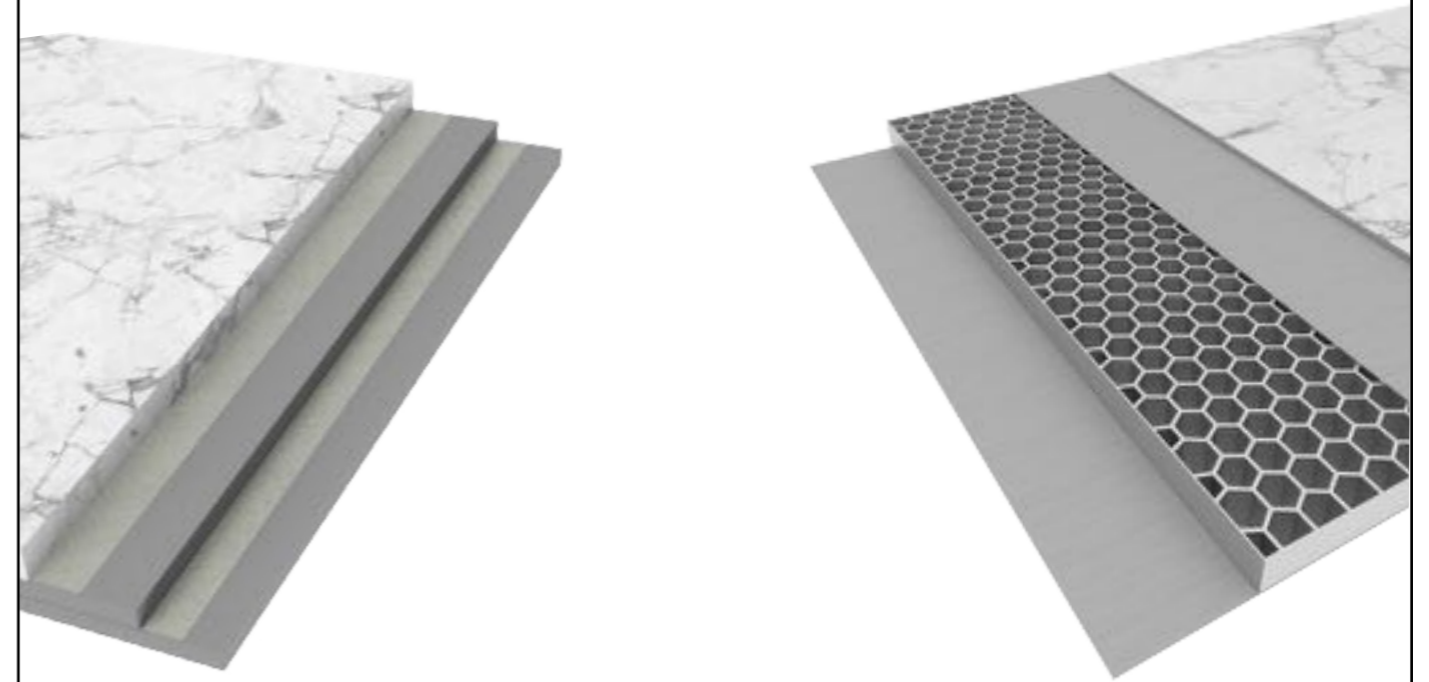


NATURAL

ULTRAPERFORMANCE

We improve the physico-mechanical properties of the natural stone combining different materials adapting them to each application.

Therefore by using ARQMAT, it is possible to emphasize in the reduction thickness of the stone, the lightness and to improve the resistance, which leads to manufacture ULTRASIZE formats.



COMPOSITE TECHNOLOGY

Inspired by nature, improved by technology.

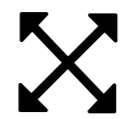
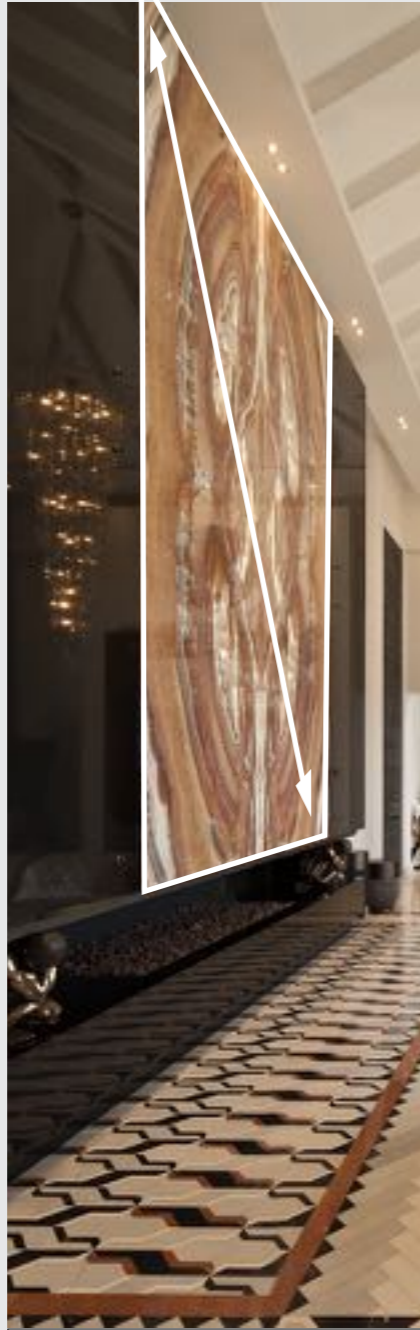
It has been developed by ARQMAT Natural Stone through our Research Department aiming to offer the best technology in the market of the ultra-light natural stone coverings.

ARQMAT consists in a thin layer of composite panels with natural stone, reinforced by ultra-light compact materials such as honeycomb panels. Thus reducing the weight of dimensional stone by 60% by making it an ideal solution for the naval industry, residential and contract design.



ARQMAT

ADVANTAGES



BIG

Ultrasize



LIGHT

12kg / m²



STRONG

High Flexural Strength and
Impact Resistance



EASY

Best manipulation and
installation



NATURAL

Made with materials
respecting the nature of the
stone



LIGHT

ARQMAT consist in composite panels of thin layer of natural stone reinforced by ultra-light compact materials such as honeycomb panels.

Honeycomb geometry allows minimal weight due to the structures of an array of hollow cells formed between thin layers of vertical walls.

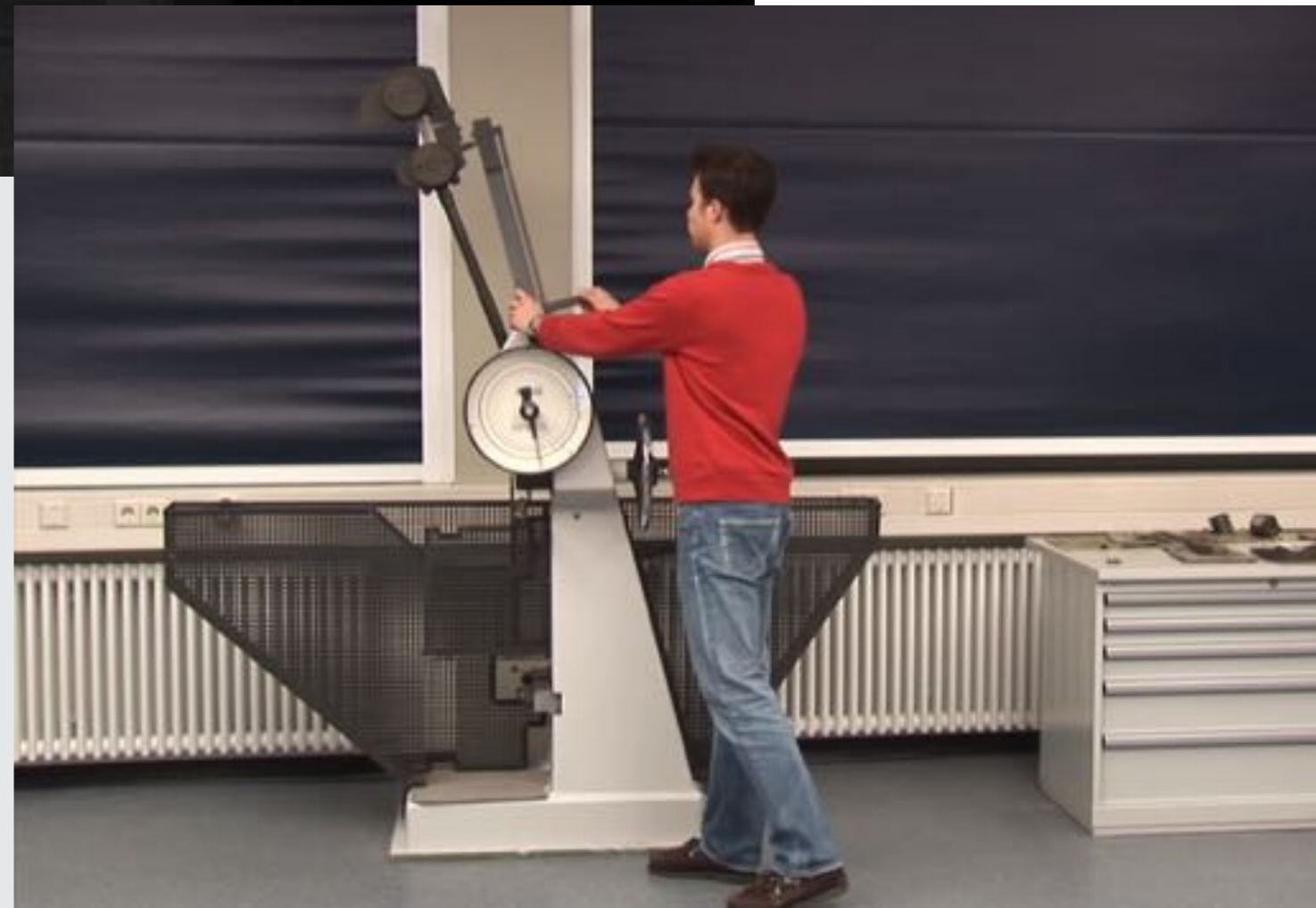
Honeycomb technology is used in constructions for a wide range of industrial applications, from aircraft, boat hulls and train interiors, to sports equipment, car chassis and body panels.



STRONG

Honeycomb works well as an energy absorber as it crushes uniformly at a known load, has a very long stroke, and has the highest crush strength-to-weight ratio of all the energy absorption materials.

Aluminum core has a crush stroke between 70% - 80% of its height, depending on its density (lower the density, longer is the stroke).



BIG

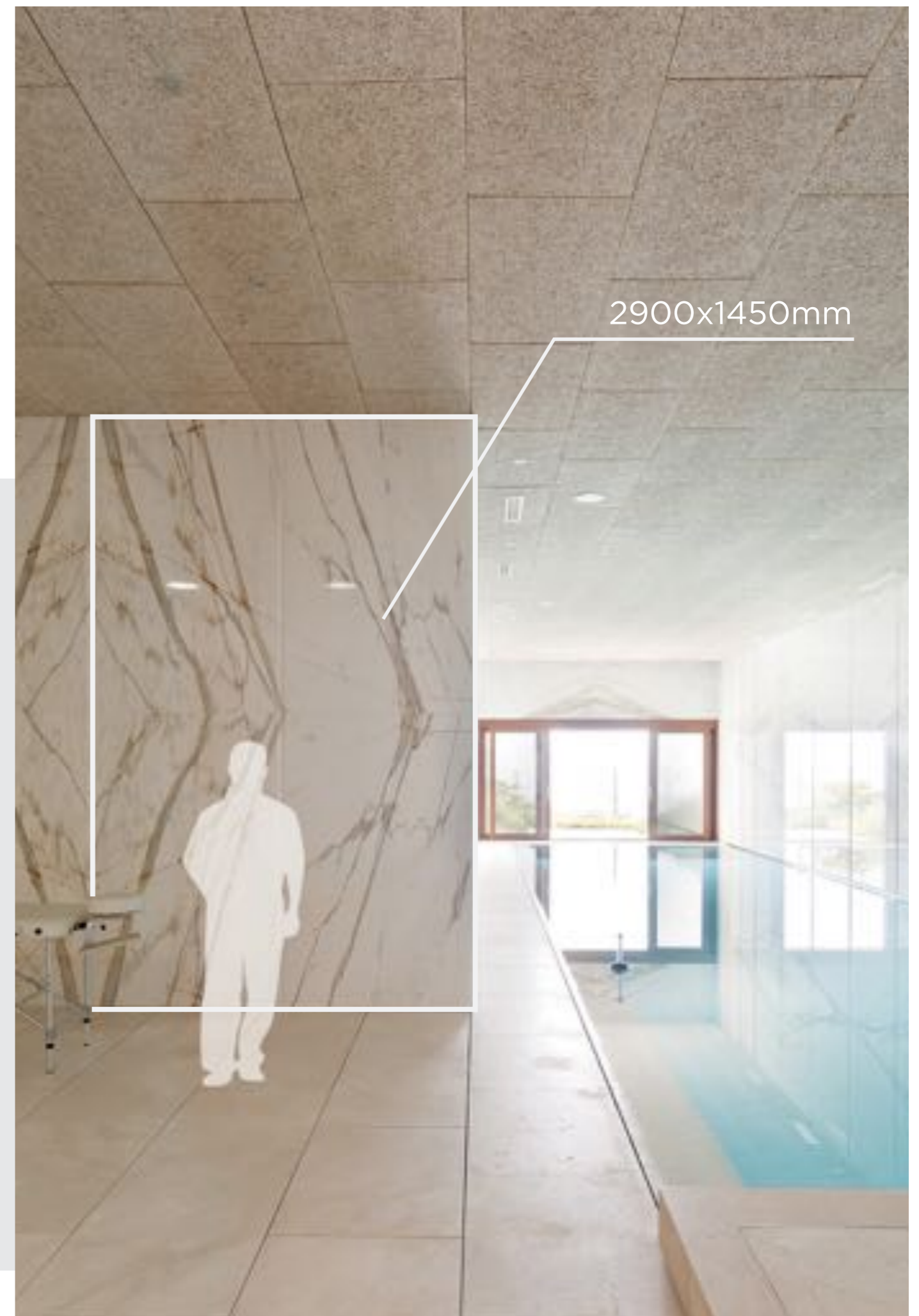
ARQMAT is presented in panels of large format and minimum thickness, enriching the design possibilities at levels hitherto unknown.

These panels have measures of 2900mm. x 1450 mm. and thicknesses from 5 mm. up to 20mm. according to the application, the design, or the desired effect.

There are several advantages due its dimensions. It has a great flexibility, lightness and strenght in its mass.

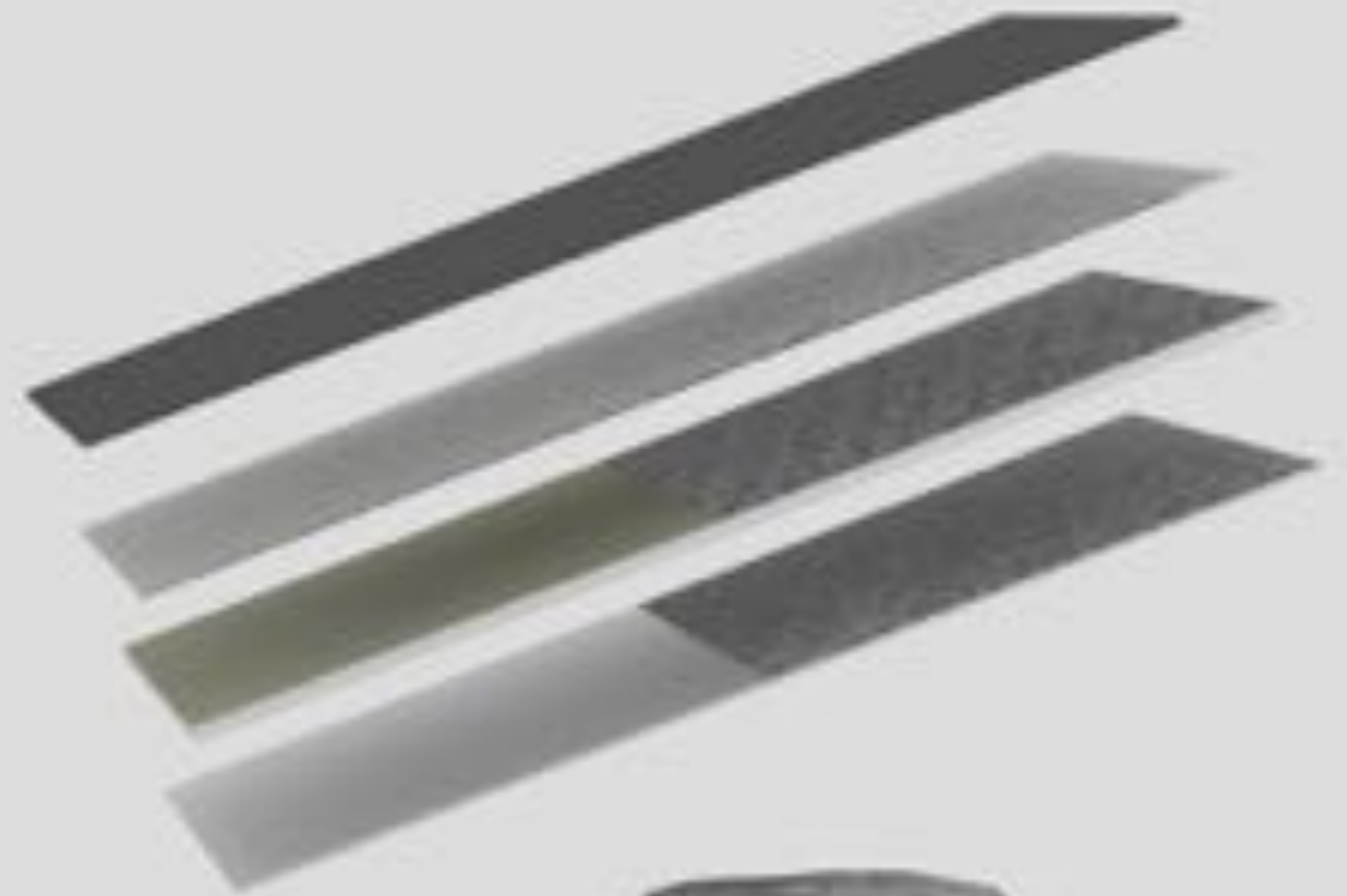
The extraordinary capacity of stonysize enable to develop different design surfaces and spaces without cuts and no limits.

ARQMAT allow to bring out the nature of stone by revealing its colour and textures to flow freely in all directions and all at once by expressing the fullness nature of the stone.



2900x1450mm

ARQ MAT



ULTRACOMPACT



ULTRACOMPACT

Due to its composition, the weight is reduced which improves transportation savings, also increases the resistance, making it possible to ULTRASIZE formats.

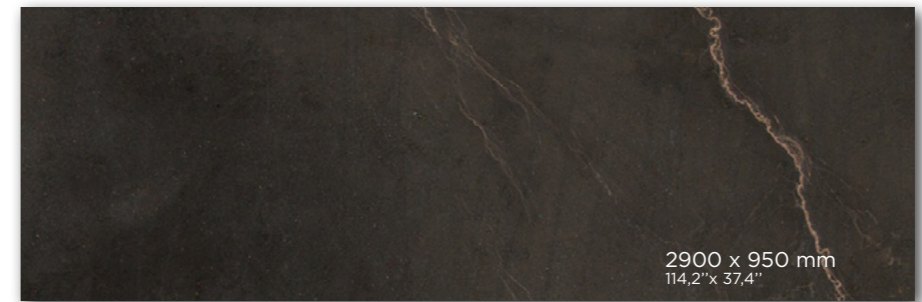
The porcelain component combines the adhesion of the product, facilitating the installation.



SSUC



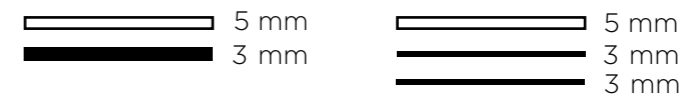
Max Size



Standard Sizes

2900 x 950 mm	114,2" x 37,4"
1450 x 950 mm	57" x 37,4"
950 x 950 mm	37,4" x 37,4"
475 x 475 mm	18,7" x 18,7"

Thickness



Max size	2900x950mm	2900x950mm
Total Thickness	11mm	13mm
Panel Weight	27 kg/m ³	29,5 kg/m ²

Applications





NATURAL STONE

COLLECTION



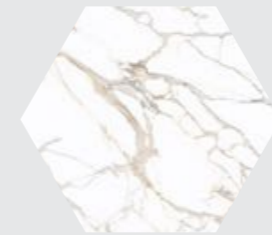
ATENEA



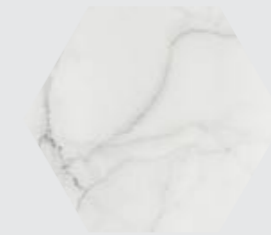
SILK WHITE



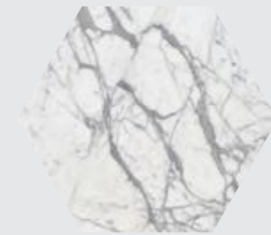
C.PREMIUM



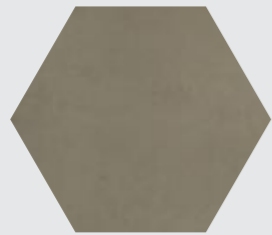
CALACATTA



CALACATTA LINCOLN



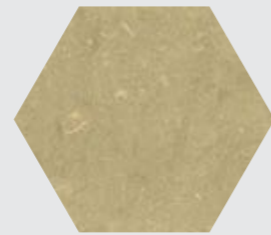
STATUTARIO



PANGEA



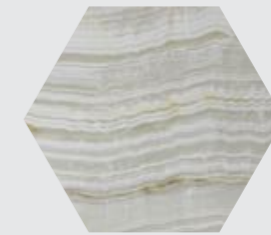
PACIFIC GREY



OSIRIS GREY



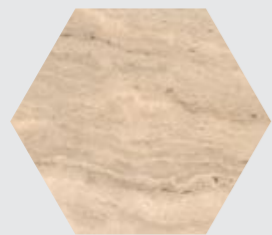
PICASSO GREY



ONIX WHITE



TAJ MAHAL



TRAV. CLASSICO



THASSOS



ICEBERG



ONIX ORANGE



SEQUOIA



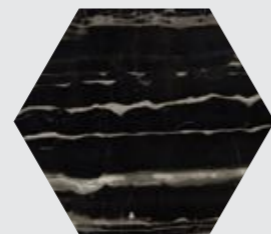
NERINEA



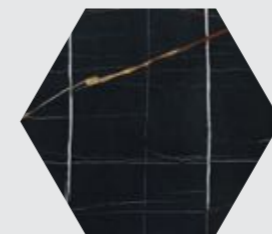
SAINT LAURENT



VULCANO



BLACK DUNE



BLACK MIRAGE



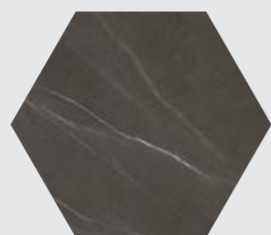
CALACATTA GOLD



PORTORO



BLUE VIOLET



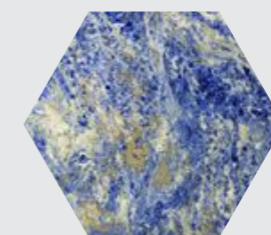
PIETRA GREY



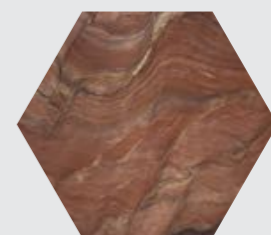
OASIS BROWN



MACAUBA



SODALITE



RED REVOLUTION



PRIVATE RESIDENCE **ANGOLA**





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