



**Porcelain  
Stoneware  
for Outdoor  
Cladding  
& Flooring**



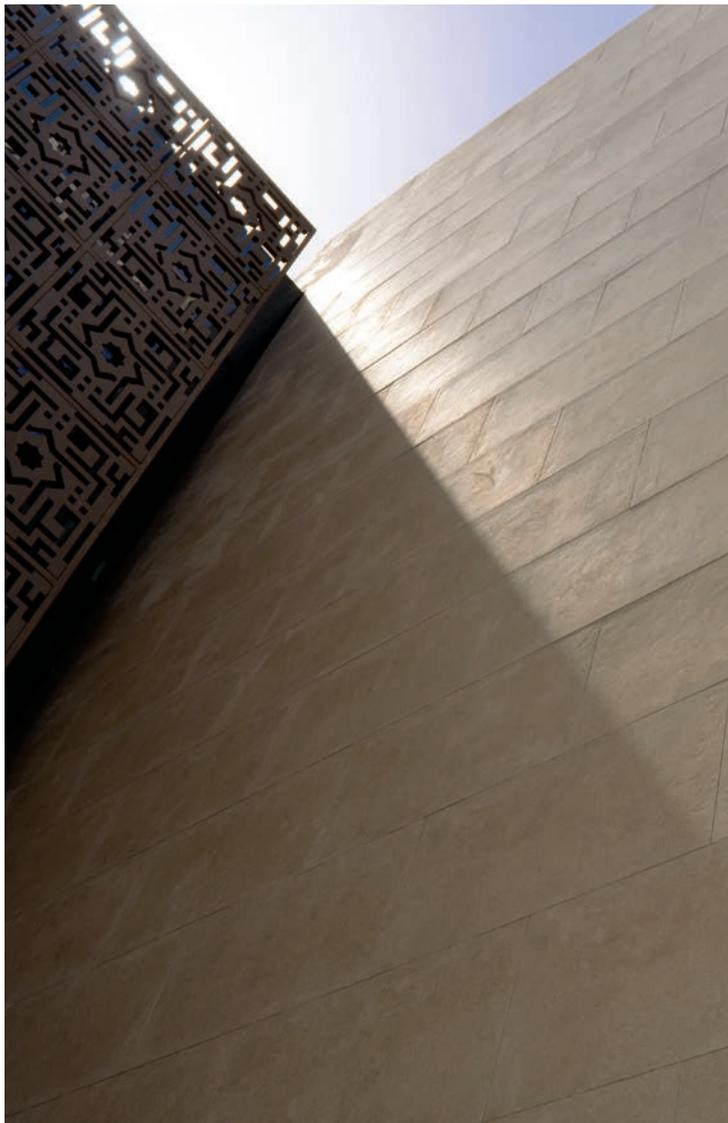


NESMA  
ORBIT

For Industrial Projects & Commerce  
نسما المدار للمشروعات الصناعية والتجارة







## **Porcelain and Stoneware for Outdoors, Cladding and Flooring**

### **20mm Evo by Mirage**

Nesma Orbit introduces to Saudi Arabia the first 20mm (3/4 inch) - thick porcelain stoneware designed specifically for outdoor use in both public and residential environments. Exclusive to Nesma Orbit in Saudi Arabia, this high-performance product comes in a range of sizes, colors, finishings and laying styles and comprises a complete system of wall coverings, flooring, coping, pools, etc. This revolutionary product exhibits such exceptional technical specifications and aesthetic qualities that it is expected to become the standard in the Kingdom.

Our porcelain stoneware offers a pleasing visual aesthetic and technical characteristics that are unmatched in the marketplace today. These high-performance stoneware slabs are fabricated through a process of pressing and vitrification.

Natural raw materials sand, quartz, feldspars, kaolin, clays and natural colorants are mixed and subjected to intense pressure and then vitrified by firing at temperatures above 1230°C (2240°F). The result is a product of exceptional hardness with virtually no absorption, making durable and long-lasting.

The 20mm Evo comes in various styles, including a faux-wood finish in various colors that is as decorative as it is durable.

The 20mm Evo is also available in a faux-stone finish in various colors.



## Advantages

Mirage stoneware offers many advantages over competing products.

### It is resistant to:

- Thermal shock – because it is 100% frost-free and its properties remain unaltered at temperatures of  $-50^{\circ}\text{C}$  and  $+60^{\circ}\text{C}$  ( $-120^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$ )

- Chemical – aggression because it is extremely resistant to acid, chemical agents, salt and verdigris
- Heavy loads – because each slab can withstand weights of 1000 kg (2200 lbs)
- Stains – because it remains unaltered over time, mold, moss and dark smudges cannot adhere to it

### It is also easier to:

- Clean – because it requires no special or seasonal treatment and can be washed easily, even using a pressure washer
- Lay – because it is a square, single work-size, which uses the same laying system as other common outdoor materials
- Remove – because it is removable, serviceable and reusable, weighing just 17kg per 60cm X 60cm slabs (24-inch X 24-inch) excluding laying on screed with glue
- Walk on – because it is non-slip, thanks to the structured surface



## Installation

EVO\_2/E was created with you in mind, offering safe and practical products that are suited to any outdoor setting and can be matched with indoor styles and colors so as to continue the indoor decorative scheme outdoors.

Mirage®, the manufacturer of porcelain stoneware, is an international company with more than 40 years of experience in over 120 countries. Each of its products come with the Mirage® guarantee.

The EVO\_2/E by Mirage offers a set of laying solutions suitable for any outdoor surface, all of which are the same laying systems as ordinary outdoor materials.

### On Walls

EVO\_2/E wall cladding can be installed by a mechanical anchoring system that combines design flexibility and excellent long-term aesthetics resulting in an external porcelain shell that improves energy savings and insulation. Mechanical fixation allows tiles to be installed in many configurations and customizations.









### **On Grass**

By laying EVO\_2/E slabs to create paths or walkways across lawns, the underlying lawn is protected from damage from heavy weights or foot traffic.

### **On Gravel or Sand**

This ensures correct soil drainage, through the gaps between the slabs, allowing water to drain off easily into the ground.

### **Adhesive Installation**

This is the ideal solution for outdoor driveways, car parks and garage ramps, as the laid surface is extremely resistant to both dynamic and concentrated loads.

### **Raised Flooring**

Raised floor is a floor suspended on a metal or plastic structure that creates a gap into which electrical circuits can be housed. Raised floors (both external and internal) are created depending on project requirements.

On the other hand, applying raised floors to outdoor settings allows us to reinterpret and renew spaces using the countless characteristics that porcelain stoneware offers.



## Porcelain Advantages

The advantages of porcelain tile over natural stone are numerous:

*Porcelain Tile is:*

- Less porous
- Less absorbent
- More resistant
- Light framework
- Less expensive freight transport
- Less expensive laying
- No treatment required
- Stable color consistency
- Stains less
- Ecologically friendly

*Natural Stone is:*

- More porous
- More absorbent
- Less resistant
- Heavy framework
- More expensive freight transport
- More expensive laying
- Periodic treatment required
- Color fades over time
- Stains more
- Ecologically destructive

In addition to the 20mm EVO, Nesma Oribt also offers 17mm and 30mm tiles.



Natural tile can develop stains and water marks over time.



Porcelain tile is resistant to stains and water marks over time.





## Ventilated Facades

A ventilated façade is a means of covering a building by which the porcelain stoneware service is anchored to the wall of the building utilizing an aluminum structure and mechanical anchorage devices. This creates a gap between the stoneware and the wall, enabling a micro-ventilation effect which allows the walls to breathe, eliminating thermal bridges, reducing heat dispersion in winter and heat accumulation in summer, and resulting in energy savings and increased comfort for building inhabitants.

**The creative possibilities are endless at Nesma Orbit, due to our extensive range of colors and textures, together with the expert skills of our craftsmen.**

## Concealed T-fix System

If the size of the installation is over 1600 cm<sup>2</sup> (40x40 cm), the use of mechanical fixing devices is necessary for safety reasons. The concealed safety hook T-Fix guarantees adherence to the wall thanks to an embedded mechanical hook which is inserted in the porcelain stoneware slabs before they are fitted. The T-Fix system by Mirage guarantees a breaking resistance of over 250 kg.



## Invisible Type I Anchoring System

The structure is made up of profiles and brackets manufactured via the extrusion of aluminum alloy, with a minimum thickness of 2 mm. The structure will be tied to the support in order to absorb thermal expansion/shrinkage and subsidence of the support itself so that the external covering is not affected by any possible future induced stress.

The fixing of the brackets to the underlying support must be carried out using adequately sized plugs suitable for the specific



type of support. The fixing of profiles onto the brackets will be carried out using rivets with “fixed point” and “sliding point” depending on the project specifications.

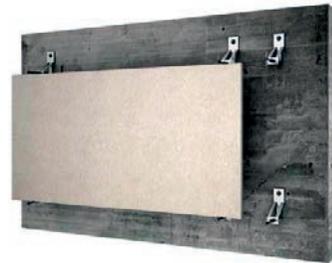
Horizontal looped profiles will then be anchored to the vertical profiles, these horizontal profiles will be duly sized so that the stress due to the action of wind is axial with respect to the clips.

## Walltech B Concealed Anchoring System

The “Walltech B” system is suitable for the mechanical fixing of 20mm thick porcelain stoneware slabs for ventilated

walls, that allows for the individual anchorage of every single slab via a coupling on the sides of the slab itself.

The anchorage structures must be able to bear the loads a transferred to the brackets, therefore, walls using compact materials are generally more suitable. Slabs can either be fixed with a hole or via “kerf” and “slot” milling procedures. The couplings can be vertical, as shown in the picture, or on the sides, with the perforations on the side of the slab.



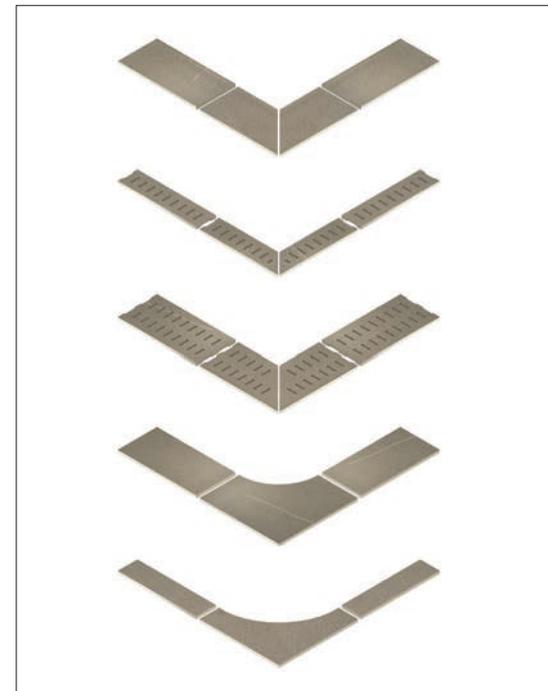


## Porcelain and Stoneware for Swimming Pools

Nesma Orbit can offer you the most complete range of outdoor porcelain and stoneware for your swimming pool or pool deck.

This material also works perfectly with both types of edges: skimmers and overflow filter pools.

Nesma Orbit can supply all the special pieces you need to design the perfect pool from every point of view. Our wide range of material includes edges, corners, grills, invisible grids and more.







## Advantages

Porcelain stoneware offers many advantages over competing products.

**Does not deteriorate:**  
Because EVO\_2/E is resistant to water, rain, chlorine and saline water in salt-water pools.

**It is non-slip**  
Because it has textured surfaces which can be walked on safely even when wet.

**Doesn't change colour**  
Because it is fully resistant to frost, sun, mould, and requires no treatment. Washable also with a high pressure washer.

**SRI tra 60% e 80%**  
Some colours have a solar reflectance index of between 60% and 80%, which means that the material has low heat absorption.





## Locations:

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