

Telling Architectural

extruded clay manufacturing

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Our Company

Ceramic Mayor S.A is one of Europe's leading extruded clay manufacturers with a long tradition in the production of floor tiles and special profiles made from both natural and glazed materials. The company was founded last century by Fernando Mayor Boluda and nowadays is directed by the three Mayor brothers. In 2004 the production plant was re-developed and expanded to create the facility for the production of long format tiles up to 1.20 metres in length.

To meet the current day demands for façade claddings we have worked energetically in the development of our manufacturing systems from the preparation of the clay to production, in glazing and the firing process, to create a range of products that are of excellent quality to meet the architects' demands in a wide variety of colours and profiles.



Mayor Tempio Ventilated Façades

The benefits of rainscreen façades in modern architecture offers many advantages to those of traditional construction methods. In relation to the Tempio Rainscreen Systems these advantages are accentuated by the low porosity of the glazed ceramic plates.

- Energy savings of between 25% and 40% compared with traditional construction methods where these do not include thermal insulation.

- Low maintenance as weather and atmospheric conditions do not stain or discolour the plates and rainfall cleanses the glazed material.

- There is no degradation over time of either the ceramic plate or in the surface finish.

- Ease and speed of assembly.

- A ventilating cavity has been proven to offer a solution to all problems associated with damp.

- The system is suitable for use in both new construction and in remodelling to create a new building aesthetic as well as eradicate any weathering or thermal performance problems.





The Ceramic Plate & Anchoring System

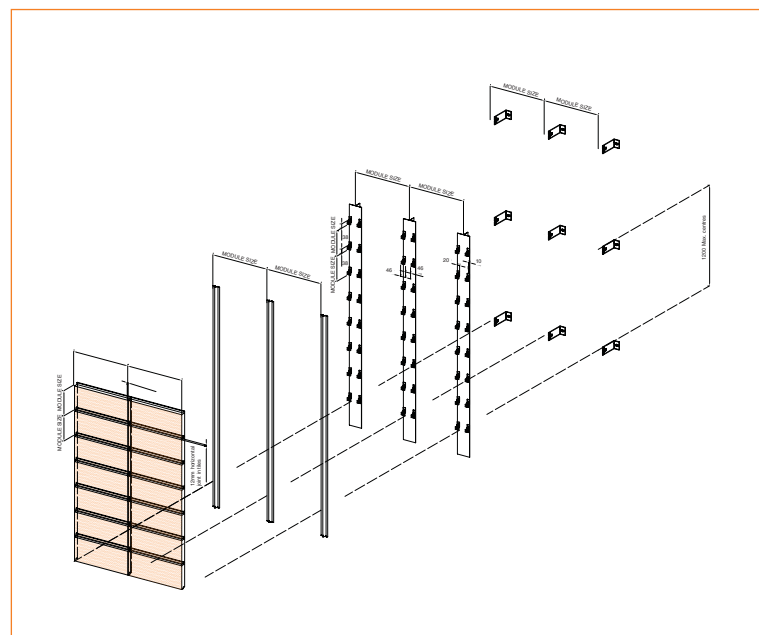
CERAMIC PLATE

Our wealth of experience in the field of ceramics generated the expertise needed for the manufacturing of extruded porcelain plates for exterior façade cladding. We have developed a modern day process to create products of high impact resistance and strength combined with lower porosity.

Tempio is an extruded through bodied porcelain, fired at 1200°C to create a consistent quality plate of optimum accuracy in thickness, profile and flatness. All our plates are glazed in order to protect the façade from airborne dirt or chemicals.



THICKNESS: 24mm
WEIGHT: 40 kgs./m sq



ANCHORING SYSTEM

The fastening systems designed for our rainscreens consist of a stainless steel clip mechanically secured to a vertical aluminium profile. The clips and support system are invisible to create a façade that is symmetrical and uniform in appearance. The support systems are designed to withstand stresses and loads imposed by wind, structural deflection and seismic movements.

The systems for anchoring the rainscreens support profiles are flexible for use with a variety of backing walls and will be tested to meet the criteria or codes of building applicable.

ASTM:
Profile mechanic resistance
Aluminium characteristics 60/60
Flexion resistance

The stainless steel clips fulfil the AISI 304 Norm





Installation Process

The rainscreen layout must be planned so as to fit with the module of all other elements of the façade. Our in house engineers will provide assistance and advice upon all aspects of setting out, attachment and detailing for closures.

The location of the support system establishes the accuracy of the façade and must therefore be undertaken by contractors holding the necessary technical expertise.

Dependant upon the individual requirements of the project, insulation can be fitted within the cavity created between the wall or panel and the rear face of the tile. The projection of the support system is dictated by the thickness of insulation and the requirement for a minimum and unimpeded ventilating cavity of 30mm thickness.



The support systems available allow the Tempio to be installed on blockwork, concrete, timber, steel wall, panelised or within unitised curtain walling. For retrofit or lightweight block applications, there are aluminium sections available that span from slab to slab.

The vertical carrier rails are pre-punched to suit the vertical module of tile selected. The rails are set vertically to suit the length of plate selected. The rails will generally be 3.0-3.5 metres in length and once one set of pre-punched holes are accurately aligned horizontally and plumbed vertically the accuracy of the façade is assured.

The junctions between the tiles have aluminium drainage channels inserted within them to disperse rainwater from the vertical joints as well as to act in a compressive function. These prevent tile creep and rattling when the façade is under load from wind.

The design of the individual support systems and their components ensure that adequate provision is made for expansion and all normal building movements.

Projects in Las Palmas de Gran Canaria (above left) and Kiev, Ukraine (below right).





Special Profiles

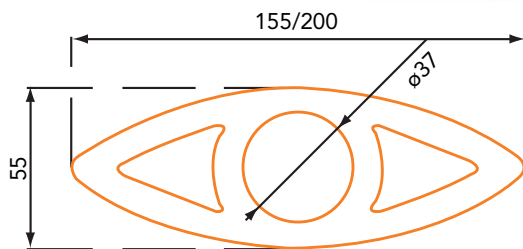
Ceramica Mayor offers a wide sunscreen range, in many sizes and formats, lengths and colours. These particular pieces may be used for decorative purposes and for sunray protection.

OVAL SUNSCREEN

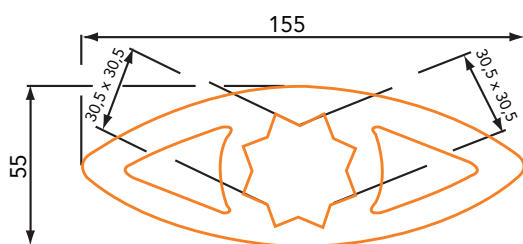
The elliptical sunscreen is available in three natural colours, and glazed if required. Oval sunscreen pieces are available in 25-35cm lengths.

The sunscreen components are supported on an aluminium rail system. Joints are formed with a neoprene gasket matching the profile of the sunscreen plate. Once assembled they are attached to a vertical support structure. The structure will be dimensioned according to the given weight.

LAVA	
ARENA	
PIEDRA	



Product Dimensions

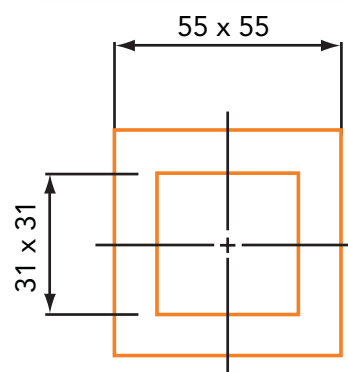
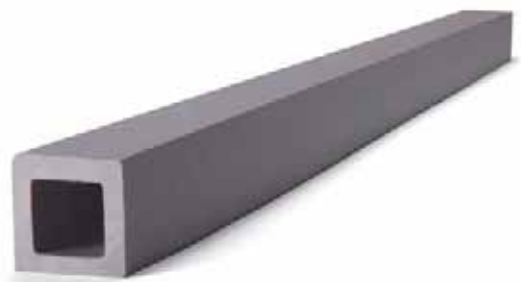


Product Dimensions

SQUARE SUNSCREEN

The square sunscreen is available in three natural colours and two sizes: 5x5x100 and 5x5x25cm.

LAVA	
ARENA	
PIEDRA	



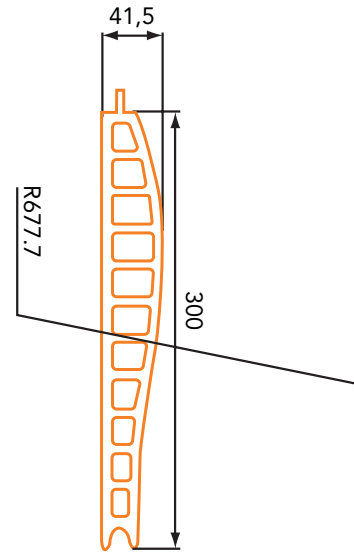
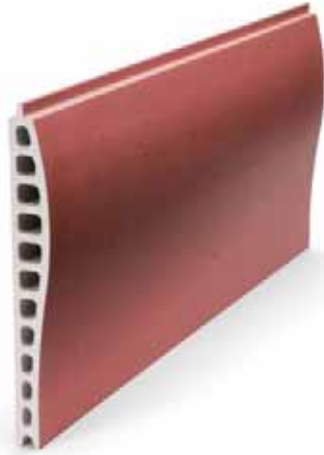
Product Dimensions

Tempio Duna

Tempio Duna was created for decorative purposes and is available in three colours from our range adding tangible aesthetic value.

It has the same anchorage system as the standard tiles and can therefore be installed with ease.

COTTO	
NEGRO	
BLANCO	



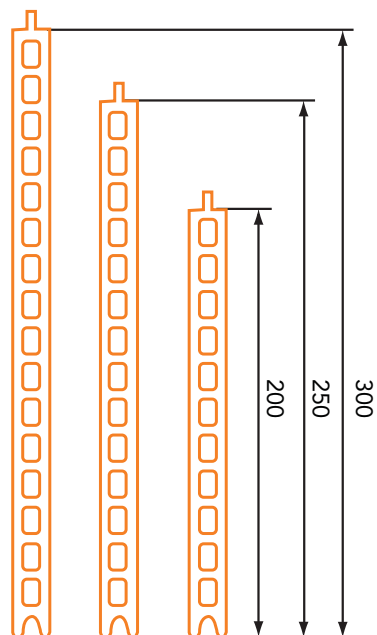
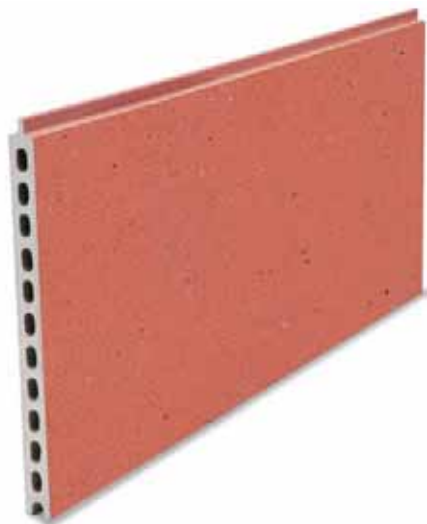
Product Dimensions

Colours and Sizes

SIZES

20 x	50	60	70	80	100	120
25 x	50	60	70	80	100	120
30 x	50	60	70	80	100	120

* Sizes in cm

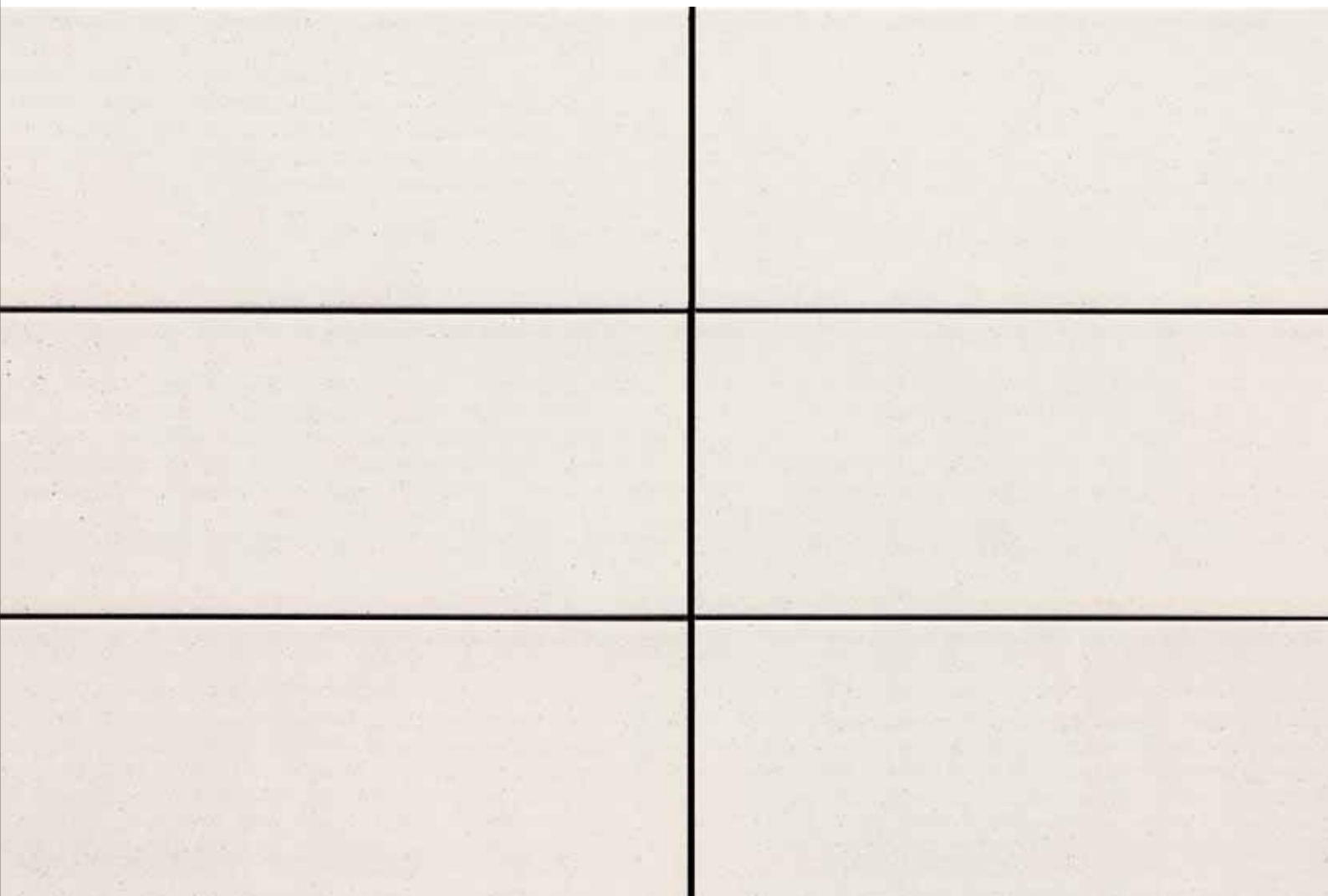


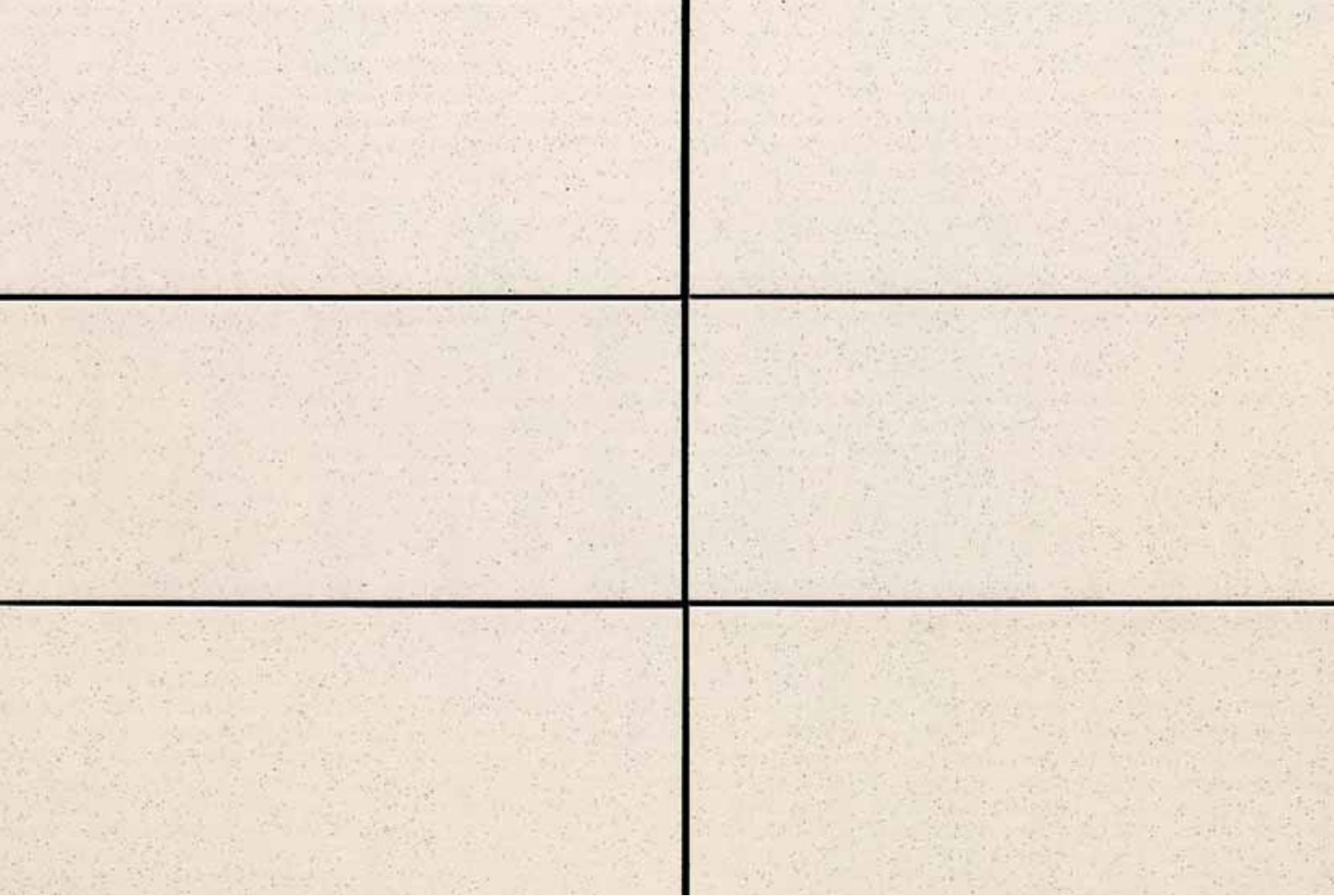
Product Dimensions



TEMPIO BORRIOL

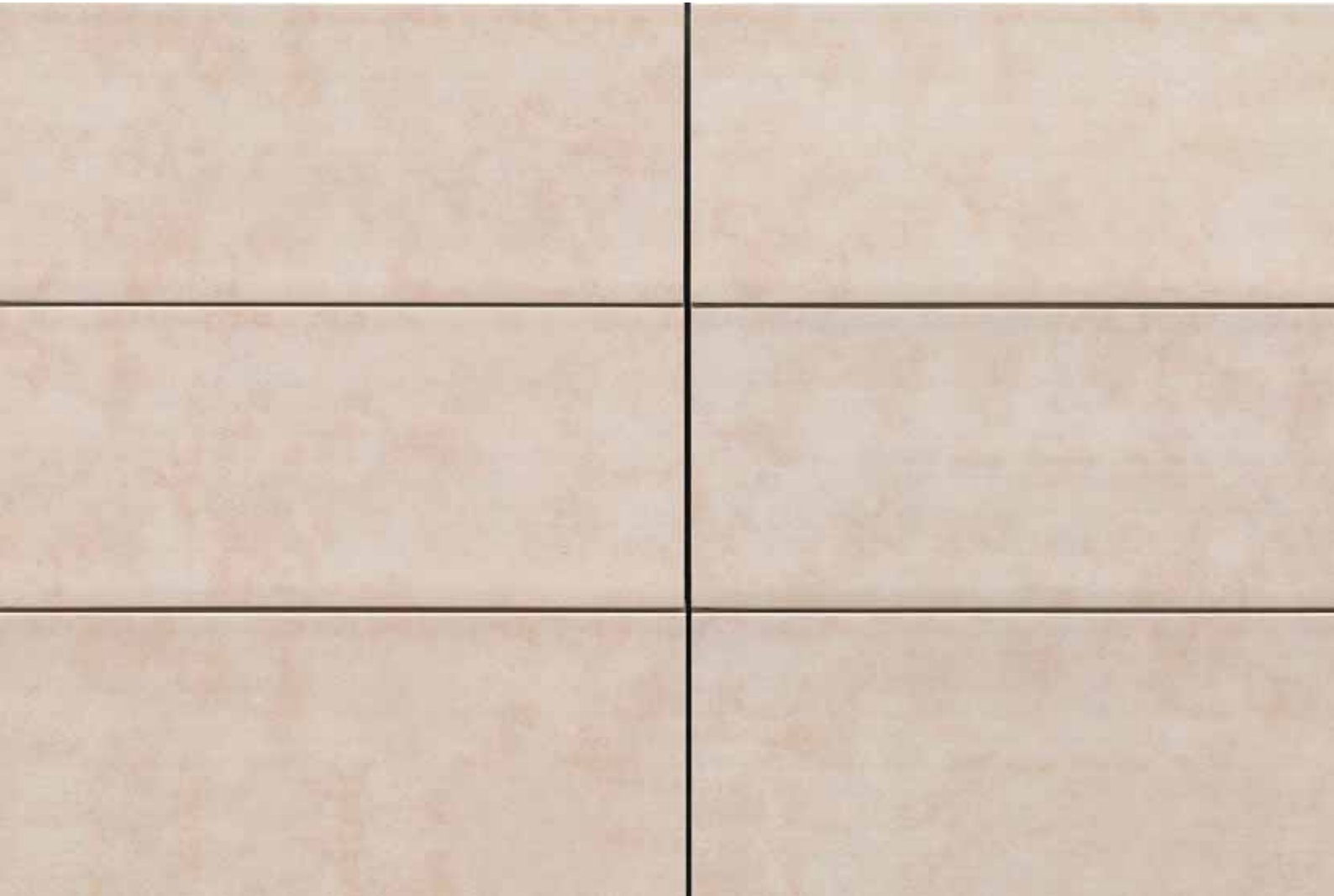
TEMPIO BLANCO





TEMPIO MARFIL

TEMPIO BEIGE

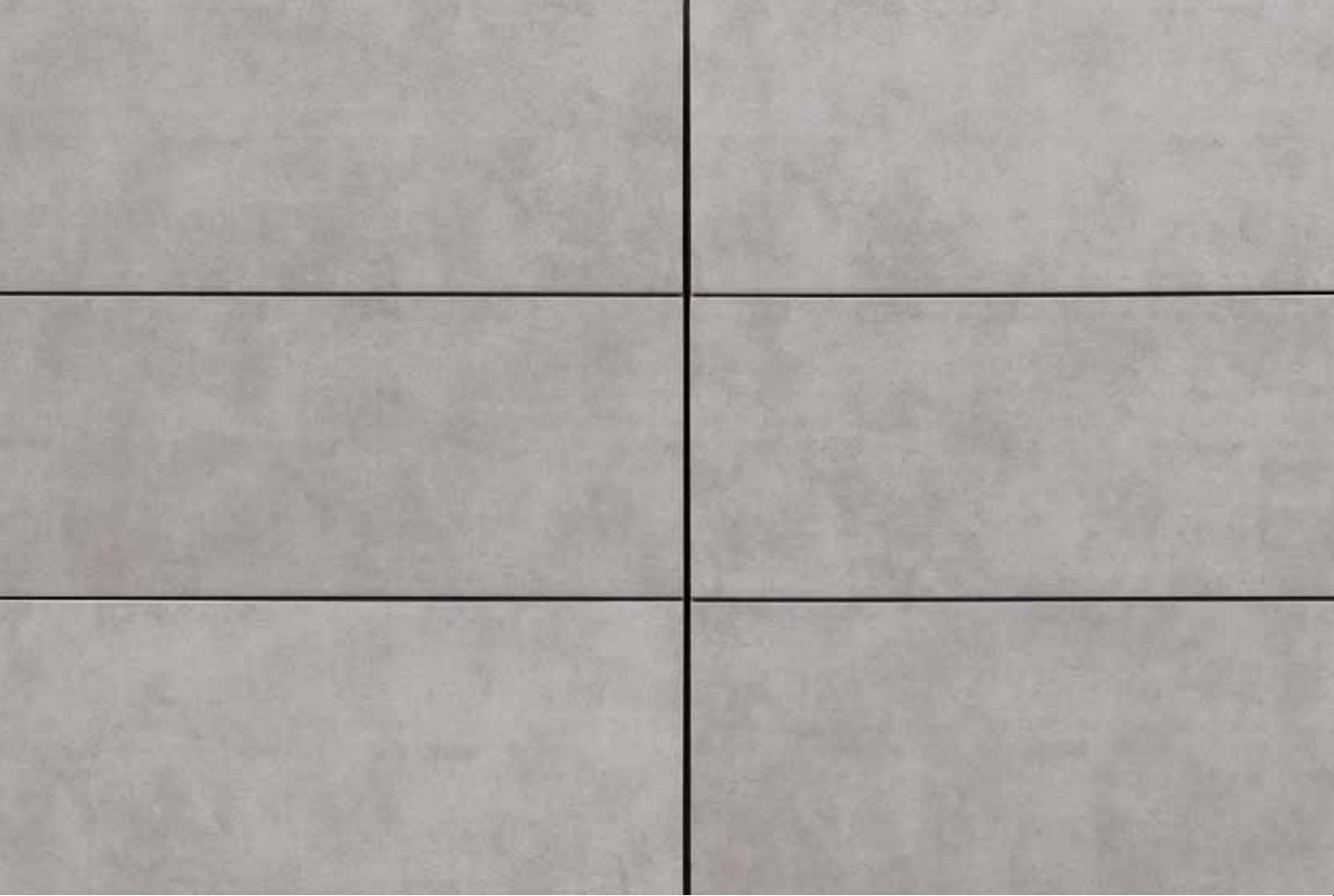




TEMPIO METAL

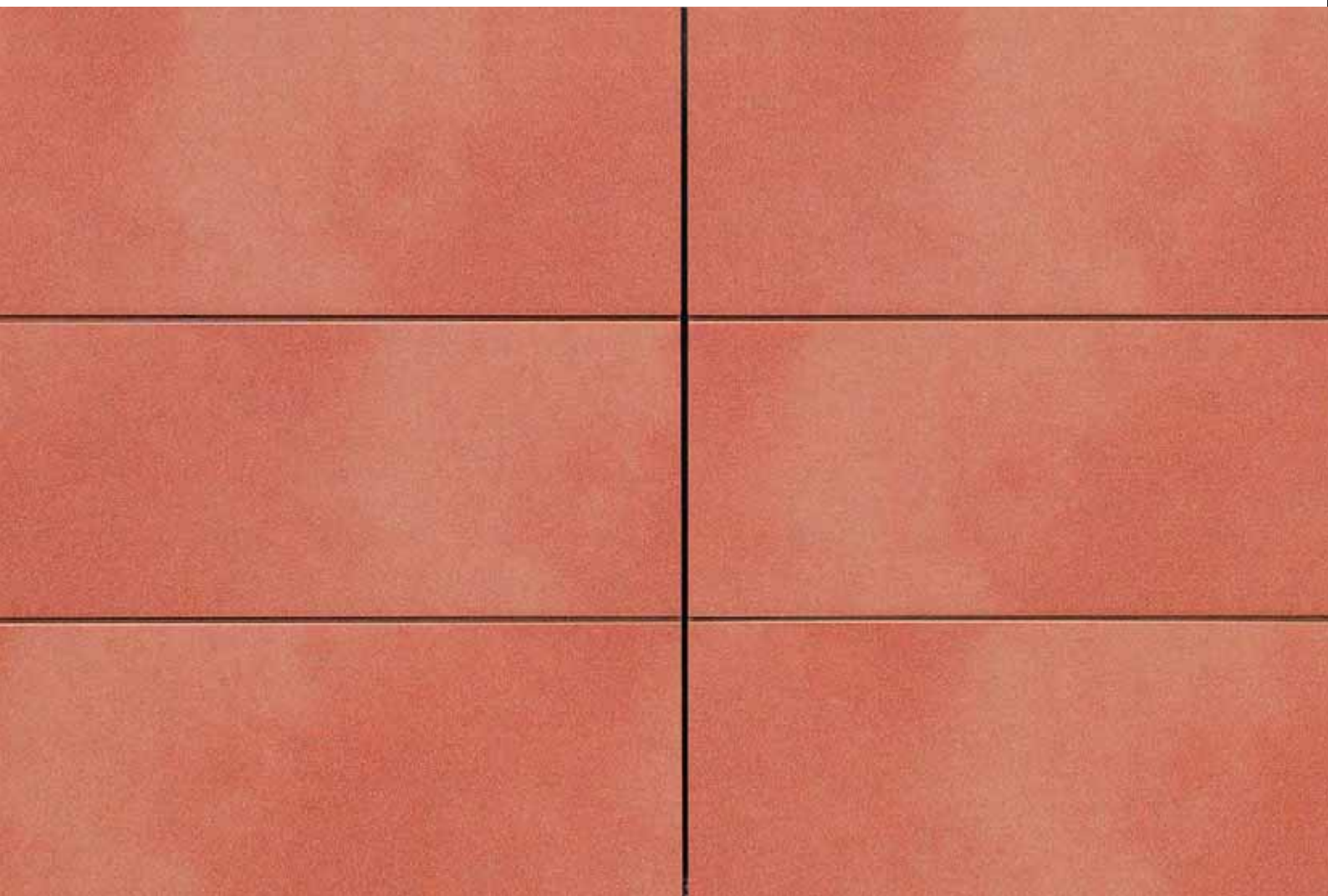
TEMPIO NEGRO

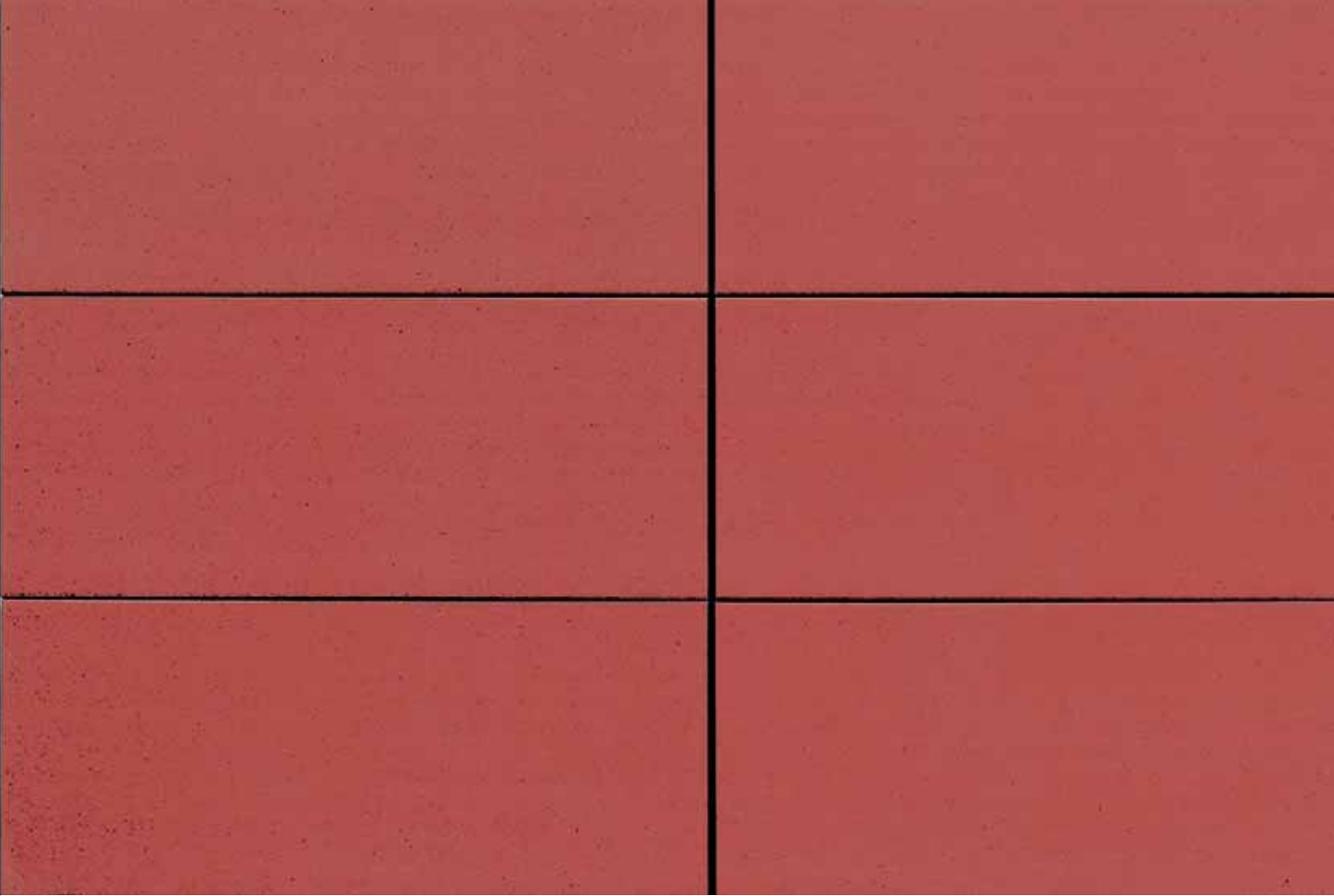




TEMPIO GRIS

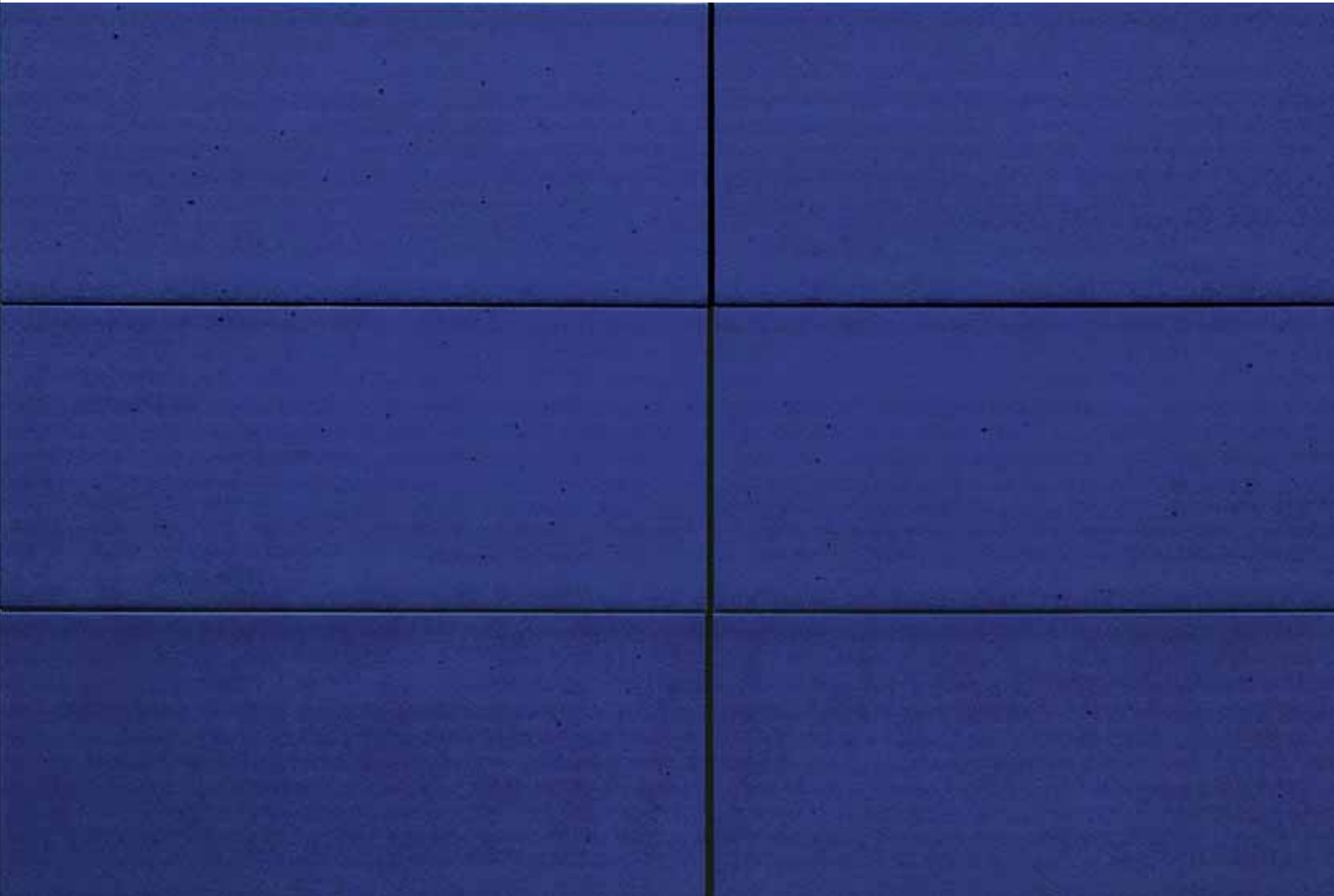
TEMPIO ROSELL



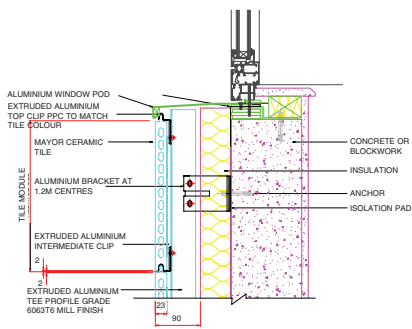


TEMPIO COTTO

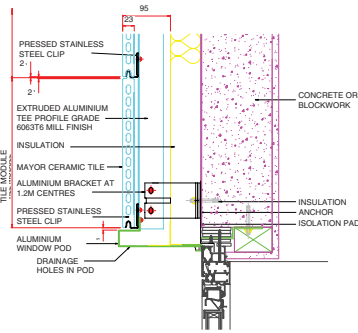
TEMPIO COBALTO



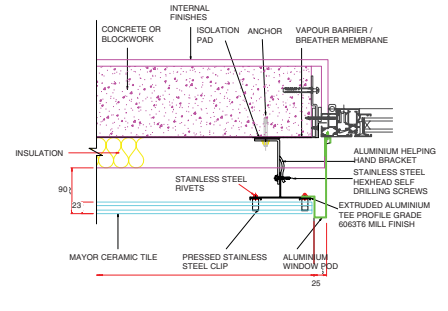
Generic Details



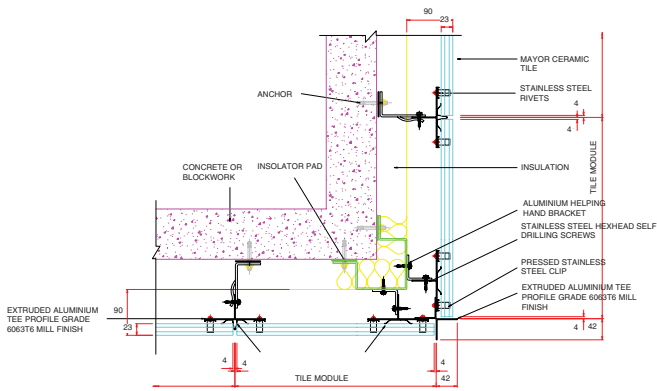
DETAIL SECTION OF WINDOW POD CILL



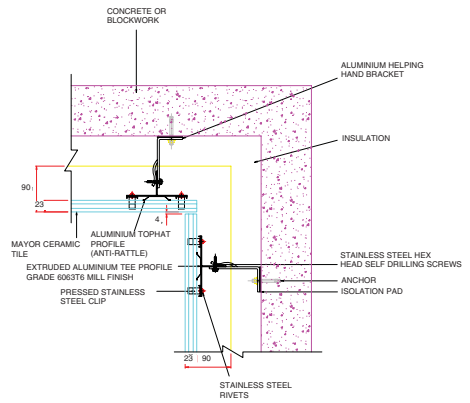
DETAIL SECTION OF WINDOW POD HEAD



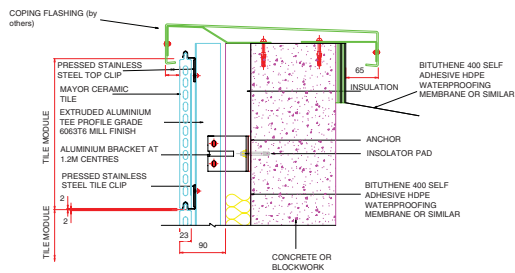
WINDOW POD JAMB DETAIL



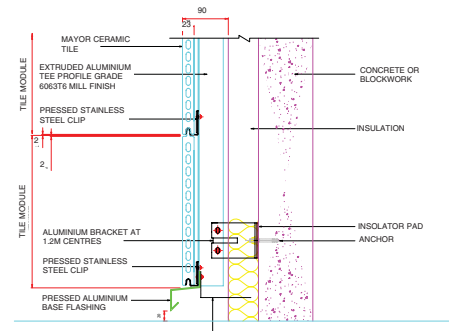
EXTERNAL CORNER



INTERNAL CORNER




VERTICAL SECTION COPING DETAIL



VERTICAL SECTION BASE DETAIL

Quality Certificates

Our Tempio tiles have passed all laboratory tests to determine their quality, strength and compliance with building standards. If you would like to receive a full copy of the test certification please contact our sales department.



LABORATORIO CERAMICO SEBASTIAN CARPI
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Test report nº: 43.042
 Page nº: 2 / 6
 Proveedor: CERAMICA MAYOR
 Date: 17/11/2006

DETERMINATION OF WATER ABSORPTION


DESCRIPTION OF THE SAMPLE -

Ceramic tiles, single extruded, 300 x 540 mm, glazed, Ref.:
-- FACHADA TEMPPIO GRIS -- Code: 678-5-06

RESULTS - (Test performed after Standard **UNE-EN-ISO 10545 Part 3:1997**)

Tile	Water absorption (P ₀) (%)	Water absorption (P ₂₄) (%)
1	1,6	1,9
2	1,7	1,9
3	1,1	1,5
4	1,2	1,5
5	1,3	1,6
Average	1,4	1,7


* Measurement uncertainty: **U = 0,3 % (k=3)**




ASTM Member No. 000122608
 UNI Member No. 30737

TEST REPORT No. 749


MATERIAL NAME : TEMPPIO Extruded Gres Tile Thickness 22 mm.
CUSTOMER : CERAMICA MAYOR S.A.



Picture 1: Jys. Flexural Strength Test



Picture 2: Upper Edge Joint pulled by a 10 mm wide hook



Picture 3: Lower Edge Joint pulled by a 10 mm wide hook

E.R.I.C.A. SOC. CONS. A R.L.
TECHNOLOGICAL LABORATORY FOR TESTING ON STONES


PERFORMED TESTS:

- Pull Out Test of the upper/lower edge joint**
 (ASTM C 1354* - Natural condition) Table 1-2
- Three points Flexural Strength**
 (EN 12372* - Natural condition) Table 3

The Test Report No. 749 consists of 20 pages including this one.

Technological Laboratory Dr. Marco Mazzoni Dr. Simone Salvetti	Ing. Mariano Fusco	DATE: May 15 th , 2006
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E.R.I.C.A. Soc. Cons. a r.l. Email: erica@ericait.it Test Report No. 749 - Page 1 of 20



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DETERMINATION OF MODULUS OF RUPTURE AND BREAKING STRENGTH

DESCRIPTION OF THE SAMPLE -

Ceramic tiles, single extruded, 300 x 540 mm, glazed, Ref.:
-- FACHADA TEMPPIO GRIS -- Code: 678-5-06

RESULTS - (Test performed after Standard **UNE-EN-ISO 10545 Part 4:1997**)

* Parameters: L = 520 mm; l = 10 mm; t = 5 mm; d = 20 mm

Tile	Breaking load * F * (N)
1	4831,4
2	4848,1
3	4756,9
4	4830,4
5	4905,9
6	4998,0
7	4876,1
Average	4867

* Measurement uncertainty: **U_r = 25 N (k=3)**

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