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STONEPANEL™ TYPES

STONEPANEL™

Prefabricated STONEPANEL™ panels are made of natural stone attached to a concrete base reinforced with fiberglass mesh to ensure the stones remain attached.

STONEPANEL SKY™

STONEPANEL SKY™ is the most secure and effective solution for installing stone panels at higher levels. These panels are recommended for installation on surfaces higher than two meters.

This model features a stainless steel attachment loop, which ensures the most secure attachment of the STONEPANEL™ on a vertical face.
1. The same guidelines followed for installation of any other type of natural stone panels should be followed. In other words, make sure each piece is level and plumb.

2. The surface to be covered should be measured accurately and the panels purchased should cover at least 5% extra surface area to account for losses caused by cutting.

3. For remodeling or rebuilding projects, any existing surface coverings should first be removed. For painted walls, the paint should be removed by scraping or grinding. Any cracks or holes should be filled with cement grout.
4. A serrated trowel should be used to apply the adhesive in a double 6-7 mm layer, covering both the back of the STONEPANEL™ panel and the wall surface. It is important to make sure that the adhesive used can support the weight of the piece (6-12 kg depending on model).

5. The lowest row should be installed first, with the individual STONEPANEL™ panels interlocking. In the second row, the location of the joints should be alternated with respect to the first row in order to make the joints less visible. This alternation of pieces should continue in the rest of the rows.

6. The panels should be set into place firmly using a rubber mallet.
7. Trim the panels using a radial saw or a water jet cutter to accommodate any elements projecting from the wall surface.

8. Walls with corners.
   a. In the case of walls with corners, always begin installation at the corners using a long piece with a straight end, then use a short piece with a straight end to start the second row, alternating these lengths after that.
   b. Another option is to use the solid corner pieces from the STONEPANEL™ product line. These are manufactured with a built-in corner ready to be installed.
INSTALLATION GUIDE

STONEPANEL SKY™

STONEPANEL SKY™ panels have a stainless steel attachment loop that allows them to be screwed to the wall using our special anchoring adapter or a piece of perforated metal strip.

1. Start with the anchoring adapter that will allow the natural stone panel to be attached to the wall (recommended width 12-17 mm).

2. Bend the anchoring adapter in half so that two of the holes are aligned and the screw can pass through both.

3. Insert the anchoring adapter through the panel’s attachment loop so it faces upwards for attachment to the wall.

4. Next, install the panels using adhesive in the same manner as with the regular STONEPANEL™ panels (in other words, like tiles).
5. Drill a hole in the wall for inserting a nylon screw anchor. This hole must be aligned with the holes that will be used in the anchoring adapter.

6. Finally, insert the screw through the adapter and into the nylon screw anchor, then tighten. The STONEPANEL SKY™ panel will be securely attached.

7. Follow the same procedure with the rest of the panels in the row and with the rest of the rows, so that the anchoring adapters are completely covered by the adhesive and do not interfere with installation of the panels covering them.

To prevent variations caused by an uneven wall surface, it is recommended that the two sides of the anchoring adapter be aligned so that the screw can pass through the holes on both sides.
ENVIRONMENTAL IMPACT

Comparative analysis of STONEPANEL™ and other surfacing products’ environmental impact.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>KG CO2 EQ/KG OF PRODUCT</th>
<th>AGUA/KG OF PRODUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STONEPANEL™</strong></td>
<td>Stone</td>
<td></td>
</tr>
<tr>
<td><strong>STONEPANEL SKY™</strong></td>
<td>Stone</td>
<td></td>
</tr>
<tr>
<td><strong>BRETON GRANITE FACING</strong></td>
<td>Stone</td>
<td></td>
</tr>
<tr>
<td><strong>STEEL SHEETS (INIES)</strong></td>
<td>Steel sheet</td>
<td></td>
</tr>
<tr>
<td><strong>TEXTURED PANELS</strong></td>
<td>Fiber cement</td>
<td></td>
</tr>
<tr>
<td><strong>PRODEX COMPOSITE PANELS</strong></td>
<td>Wood veneer panels</td>
<td></td>
</tr>
</tbody>
</table>
# COMPARISON WITH RESIN-BASED PANELS

<table>
<thead>
<tr>
<th></th>
<th>RUSTIC PANEL</th>
<th>STONEPANEL™</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ABSENCE OF</strong></td>
<td>The mesh is not in contact with the entire panel surface.</td>
<td>The purpose of the fiberglass mesh is to constrain expansion of the concrete even if the concrete suffers impacts during transport.</td>
</tr>
<tr>
<td><strong>BREAKAGE</strong></td>
<td>PROBLEMS: during transport the mesh does not prevent stones from falling off in the event of breakage.</td>
<td></td>
</tr>
<tr>
<td><strong>DURING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TRANSPORT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>INSTALLATION</strong></td>
<td>The panel does not have safety anchoring.</td>
<td>The panel does not have safety anchoring, although it has passed Freeze-Thaw and Thermal Shock testing (see pg.18) UNE 22203.</td>
</tr>
<tr>
<td><strong>AT HEIGHTS</strong></td>
<td>PROBLEMS: Risk of panel falling from the facade in the event that the adhesive fails. Should not be installed at heights above 2m.</td>
<td>PROBLEMS: Risk of panel falling from the facade in the event that the adhesive fails. Should not be installed at heights above 2m.</td>
</tr>
<tr>
<td><strong>PREVENTION</strong></td>
<td>The stones are attached to the wall during installation using an adhesive mortar, without control over environmental conditions (dust, moisture, etc).</td>
<td>The stones are attached to the concrete base during manufacture under optimal controlled conditions. Perfect adhesion between the mortar-adhesive used for installation and the panel's base is verified and tested.</td>
</tr>
<tr>
<td><strong>OF FALLING</strong></td>
<td>PROBLEMS: Gaps without adhesive may remain during installation so that part of the panel does not adhere. Breakage and falling may occur at any time.</td>
<td></td>
</tr>
<tr>
<td><strong>STONE PANELS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AFTER</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>INSTALLATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>INVISIBLE</strong></td>
<td>The stones are joined using mortar-adhesive applied in the joints.</td>
<td>The stones are joined using a continuous layer of mortar and the stones are attached by their back surface, which prevents the joints from being visible.</td>
</tr>
<tr>
<td><strong>JOINTS</strong></td>
<td>PROBLEMS: The joints must have a minimum thickness in order to accommodate a minimum amount of mortar. The mortared joints between stones are very visible.</td>
<td></td>
</tr>
</tbody>
</table>
### NATURAL STONE PANELS

#### STONE PANEL SKY™

- The purpose of the fiberglass mesh is to constrain expansion of the concrete even if the concrete suffers impacts during transport. **✓**

- Has a stainless steel anchoring loop embedded in the base. If the installation adhesive fails the panel will remain anchored until it can be replaced. **✓**

- The stones are attached to the concrete base during manufacture under optimal controlled conditions. Perfect adhesion between the mortar-adhesive used for installation and the panel’s base is verified and tested. **✓**

- The stones are joined using a continuous layer of mortar and the stones are attached by their back surface, which prevents the joints from being visible. **✓**

---

#### LIGHT BLOCK

- Does not have reinforcement mesh, so breakage or falling stones are possible during transport. **✗**

- The panel does not have safety anchoring. PROBLEMS: Risk of panel falling from the facade in the event that the adhesive fails. Should not be installed at heights above 2m. **✗**

- The stones are attached to the wall during installation using an adhesive mortar, without control over environmental conditions (dust, moisture, etc.). PROBLEMS: Gaps without adhesive may remain during installation so that part of the panel does not adhere. Breakage and falling may occur at any time. **✗**

- Joints are not visible. **✓**
STONEPANEL™ MODELS

STONEPANEL™ Multicolor thin set slate

STONEPANEL™ Black thin set slate

STONEPANEL™ Multicolor

STONEPANEL™ Nilo

STONEPANEL™ Nordic

STONEPANEL™ Black Slate

STONEPANEL™ Nordic vintage

STONEPANEL™ Orient

STONEPANEL™ Sahara

STONEPANEL™ Sylvestre

STONEPANEL™ Marina
STONEPANEL™ - SPECIAL PIECES

**Solid corner**

L-shaped natural stone panel made for installation on corners. The corner is built-in so installation is quick and easy.

**Solid corner for windows**

L-shaped natural stone panel, with long end staggered and short end straight. Designed to accommodate junctions with windows.

**Straight end**

These differ from the standard STONEPANEL™ panels because one of the two ends is straight. These have been created for walls without corners. Both short and long panels with one straight end are available.

**Double end**

Natural stone panel with staggered ends, designed for installation on columns.

This concrete base does not extend all the way to the two ends.

**STONEPANEL™ Curved**

These curved stone panels are adapted to circular facades. They are recommended for installation on surfaces less than 2 m in height.
TESTING AND CERTIFICATION

SINTEF – NORWAY

Technical Approval

SINTEF Certification
No. 2563
Issued: 01.11.2010
Corrected: 20.05.2011
Valid until: 01.11.2015
Page: 1 of 3

STONEF by CUPA GROUP

SINTEF Certification

SINTEF (Building and Infrastructure)

1. Holder of the approval

Cupa Materiales SA
Sierra Nevada 9
Amposta (Tarragona)
37217 Tarragona
Spain
www.cupa.com

2. Manufacturer

Cupamex, Inc.
12235 McArthur Blvd., Suite 100
Torrance, CA 90501
USA
www.cupamex.com

3. Product description

Stonepanel®, Fig. 1, and Stonepanel® Sky, Fig. 2, are panels made of natural stone bonded to a cement mortar base which is reinforced with a galvanized mesh.

Stonepanel® Sky has, unlike Stonepanel®, an incorporated mechanical anchorage of stainless steel 2.0 mm wire embedded into the concrete base for mechanical fixing to the base.

The panels are produced in 10 different versions by means of different rocks and dimensions as listed in Table 1.

4. Fields of application

Stonepanel® and Stonepanel® Sky can be used as decorative cladding system on solid walls made of concrete, concrete sandwich elements, insulated light weight concrete panels or brick masonry. The cladding system may be used both on new and existing buildings.

All the different panels can be used both outdoor and indoor.

5. Properties

Load-carrying capacity

The stone embedded in the concrete base of Stonepanel® Sky has a calculated pull-out design capacity of 65 kN.

Properties related to fire

Reaction to fire has not been determined.

Stonepanel® and Stonepanel® Sky have sufficient front resistance for outdoor exposure in Norway.
TESTING AND CERTIFICATION

BBA – UNITED KINGDOM

Cupamateriales S.A
Sierra Nevada, 9
Area Empresarial Andalucía
28020 Patxi
Madrid
Spain
Tel: 00 34 916 019 236 Fax: 00 34 916 018 012
email: rhemandiz.cupamet@cupa-grup.com
website: www.cupametz.com

CUPAMAT WALL PANELS
STONE PANEL AND STONE PANEL SKY

PRODUCT SCORE AND SUMMARY OF CERTIFICATE
This Certificate relates to Stonepanel and Stonepanel Sky, natural stone panels for use as a decorative cladding.

AGREMENT CERTIFICATION INCLUDES:
- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- normal three-yearly review.

KEY FACTORS ASSESSED
Strength and stability — the panels have sufficient strength to resist the negative and positive wind pressures likely to be experienced in the UK and have good impact resistance (see section 5).
Behaviour in relation to fire — the panels are non-combustible and will restrict the spread of fire across the external surface of a building (see section 6).
Air and water penetration — the system is not watertight but will restrict the ingress of rainwater to the supporting structure (see section 7).
Maintenance — generally the panels do not require maintenance and are self-cleaning but removal of some types of mark may require specialist treatment (see section 8).
Durability — the system has a design life in excess of 30 years (see section 9).

The BBA has awarded this Agrément Certificate to the company named above for the products described herein. These products have been assessed by the BBA as being fit for their intended use provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 9 February 2010

Brian Chamberlain
Head of Approvals — Engineering
Chief Executive

Greg Cooper

The BBA is a UKAS accredited certification body. Number 710. The schedule of the current scope of accreditation for product certification is available in pdf format on the UKAS website or www.bba.co.uk

British Board of Agrément
Bucknells Lane
Oatley, Watford
Herts, WD25 9BA
020810

Page 1 of 8
TESTING AND CERTIFICATION

DIBT – GERMANY

Allgemeine bauaufsichtliche Zulassung

Zulassungsnummer:
Z-33.1-1090

Antragsteller:
CUPA STONE S.L.
Calle Malico Conea 14
24404 PONFERRADA (LEÓN)
SPANIEN

Zulassungsgegenstand:
Fassadensystem “Stonepanel” und “Stonepanel Sky” zur Anwendung als angemörtelte Außenwandbekleidung

Geltungsdauer
vom: 29. Mai 2013
bis: 29. Mai 2018

Der oben genannte Zulassungsgegenstand wird hiermit allgemein bauaufsichtlich zugelassen. Diese allgemeine bauaufsichtliche Zulassung umfasst acht Seiten und vier Anlagen.
TESTING AND CERTIFICATION

CSTB – FRANCE

Avis Technique 13/12-1177

Anne 6 et remplace l'Avis Technique 13/09-1042

Stonepanel
Stonepanel Sky

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Tel : 01 30 49 69 86

Fax : 01 30 49 69 87

Commission chargée de formuler des Avis Techniques

(arrêté du 21 mars 2012)

Groupe Spécialisé n° 13

Procédés pour la mise en œuvre des revêtements

Vu pour enregistrement le 10 janvier 2013
TESTING AND CERTIFICATION

THERMAL SHOCK AND FREEZE-THAW

TPN
PRODUCTOS DE PIEDRA NATURAL

Protocolo de ensaye

DENOMINACION COMERCIAL: STONE PANEL

Fabricante: CUPAMAT s.l
Procedencia: No facilitada

Fecha: Julio 2011
Nº de Certificando: 11033

ENSEYOS DE CARACTERIZACION

ENSEYOS RESULTADOS

Resistencia al choque térmico (C.NE. EN 12371) Sin alteraciones después de 56 ciclos

Resistencia al envejecimiento por choque térmico (C.NE. EN 14681) Sin alteraciones después de 25 ciclos

Conforme.

El director del Laboratorio