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STONEPANEL™ TYPES

STONEPANELTM

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





STONEPANEL SKYTM

STONEPANEL SKY $^{\text{\tiny M}}$ 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 $^{\text{\tiny M}}$ on a vertical face.







INSTALLATION GUIDE

STONEPANELTM

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 SKYTM

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 $^{\text{\tiny{M}}}$ and other surfacing products' environmental impact.

	MATERIAL	KG CO ₂ EQ/KG OF PRODUCT	AGUA/KG OF PRODUCT
STONEPANEL™	Stone	2	5
STONEPANEL SKY™	Stone	CC,	5
BRETON GRANITE FACING	Stone		5 5 5 5 5 5 5 5 5 5
STEEL SHEETS (INIES)	Steel sheet		5 5 5 5 5 5 5 5 5 5
TEXTURED PANELS	Fiber cement		5 5 5
PRODEX COMPOSITE PANELS	Wood veneer panels		5



COMPARISON WITH RESIN-BASED PANELS

	RUSTIC PANEL	STONEPANEL™
ABSENCE OF BREAKAGE DURING TRANSPORT	The mesh is not in contact with the entire panel surface. PROBLEMS: during transport the mesh does not prevent stones from falling off in the event of breakage.	The purpose of the fiberglass mesh is to constrain expansion of the concrete even if the concrete suffers impacts during transport.
INSTALLATION AT HEIGHTS	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 panel does not have safety anchoring, although it has passed Freeze-Thaw and Thermal Shock testing (see pg.18) UNE 22203. PROBLEMS: Risk of panel falling from the facade in the event that the adhesive fails. Should not be installed at heights above 2m.
PREVENTION OF FALLING STONE PANELS AFTER INSTALLATION	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.	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.
INVISIBLE JOINTS	The stones are joined using mortar-adhesive applied in the joints. 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.	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.





STONEPANELTM 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.



SINTEF - NORWAY





SINTEF Certification

No. 2563

touest 01.10.2010 Corrected: 20.05.2011 Valid unit: 01.10.2015

SINTEF Building and Intradiructure confirms (test

Stonepanel® and Stonepanel® Sky

neets the provisions regarding product documentation gives in Numerican beliding regulations, with properties, fletts of application and conditions as stated in titls document

1. Helder of the approval

Capa Materiales SA. Şimu Nevada 9 Àrea Brancential Andaloria RS-2X120 Pinto Madrid Specie प्रथम विकास देवा

2 Manufactures

Closing Yi Stone CO. LTD, Yi County, Randing China

3. Product description.

Storeparel®, Fig. 1, and Storeparel® Sky, Fig. 2, we punels made of natural stone bunded to a cement morter bese which is reinforced with a glassifier mesh.

Stoneparel® Sky bas, unlike Stoneparel®, an incorporated mechanical auchor of stainless steel 2,6 non. loop uite embedded into the concrete base for mechanical. fixing to the base.

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

4. Fields of application

Sunsponel\$ and Sanseparel\$ Sky can be used as decreative childing system on solid walls made of concrete, concrete sandwick elements, insulated light weight concrete museury or brick massery. The childing system may be used both on new and existing buildings.

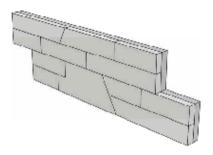
All the different panels can be used both outdoor and indoor

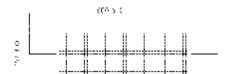
Load carrying capacity

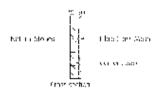
The suchus embedded in the concrete beer of Store Sky has a calculated pull-out design capacity of 0,64 kN.

Properties related to fire

Reaction to fire has not been determined.







Front and rear view of Stonepartel®, and a cross section of te one

Durability

Frence than tests show that Stronganei@ and Stronganei@ Sky have sufficient frost resistance for outdoor expresse in Norway.

SINTEF is Norwegian member of European Organisation for Technical Approvals, EOTA, and European Union of Agrénient, UEAts

Reference: Appr. 300487 Contr. 301105

Head Office SB/TEF Building and Intradructure P.D.Bez: 124 Blinden – ND 0314 Octo Tel. + 47 22 96 55 55 – Faz: + 47 22 89 94 38

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Subject Classings Transferie SINTEF Building and Intraducture 7465 Transferin Tel. 447 73 59 30 00/33 90 - Fax: 447 73 59 33 50/60

Capyright SINTEF Bygglank



BBA - UNITED KINGDOM

Cupa Materiales S.A

Siena Névado, 9 Área Empresarial Andalesía 28320 finto Madrid Socia

Tel: 00 34 916 919 236 Fax: 00 34 916 918 012 email: nteriumdia: cupanat@cupagrayp.com wobsite: www.cupanat.com



Agrément Certificate 10/4724 Product Sheet 1

CUPAMAT WALL PANELS

STONEPANEL AND STONEPANEL SKY

PROPERTY OF AND SHOWARD OF CERTIFICATE

This Certificate relates to Stoneponel and Scineponel Sky, natural stone panels for use as a decorative cladding.

AGRÉMENT 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 arteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production.
- · famal 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 waterlight but will restrict the ingress of minwater to the supporting structure (see section 7).

Maintenance — generally the parels do not require maintenance and are self-cleaning but removal of some types of mark may require specials treatment (see section 6).

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 Agrement

Date of First issue: 9 February 2010

D Chamber

Head of Approvals — Engineering Chief Executive

Greg Cooper

The 2BA is a LISAS statewheet certification body. Number 7.13. The schedule of the current stape of attainable for product certification is available in pdf format via the CKAS tink on the BSA website or view bibacosts as well-

Berdan as arbitral to risk the widely and last one native of the approximal Certification, while eliminate to the MA section in consuming the IBA direct

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⇒ 01925 < 5000 fax: 01923 < 55001 email: mail@bbc.acr.sc.uk website: www.bbocerts.co.uk







DIBT - GERMANY

Allgemeine bauaufsichtliche Zulassung Deutsches Institut für Bautechnik

Zulassungsstelle für Bauprodukte und Bauarten

Bautechnisches Prüfamt

Eine vom Bund und der Ländern gemeinsam getragene Anstalt des öffentlichen Rechts Mitglied der EOTA, der UEAte und der WFTAG

Batum:

Geschäftszeicherd

29.05.2013

II 13-1.33.1-1090/1

Zulassungsnummer:

Z-33.1-1090

Antragsteller:

CUPA STONE S.L. Calle Matilde Coneae 14 24404 PONFERRADA (LEÓN) SPANIEN Geltungsdauer

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

Zulassungsgegenstand:

Fassadensystem "Stonepanel" und "Stonepanel Sky" zur Anwendung als angemörtelte Außenwandbekleidung

Der oben genannte Zulassungsgegenstand wird hiermit allgemein bauaufsichtlich zuge Diese allgemeine bauaufsichtliche Zulassung umfasst acht Seiten und vier Anlegen.



DIBL

DIBt | Kolomnerstraße 30 B | D-10829 Barlin | Tel: +49 30 78730-0 | Fax: +49 30 78730-320 | E-Mail: dist@dist.de | www.dist.de



Annata et remplece l'Avie Technique 13/09-1062

TESTING AND CERTIFICATION

CSTB - FRANCE Avis Technique 13/12-1177

Eléments pour revêtement de murs intérieurs et extérieurs

Stonepanel Stonepanel Sky

Titulaire :

Société Capa Materioles SA Sierro Navada, 9 (Area Empresorial Andolucia) E8-28320 Pinto (Modrid)

T4), : +34 91 691 92 36 Fex : +84 91 691 80 12 E-meil : Wernendez, cupernet (Brapegroup, com

Internet : www.capemet.com

Distribution : Société Capa Pierres Distribution 8 rue du Pont des Landes FR-78810 Coignières

Tel.: 01.80 49 69 86 Fex: 01.30 49 69 87

Commission chargée de formuler des Avis Techniques (arrêté du 21 mars 2012)

Groupe Spécialisé n° 13 Procédé pour la mise en œuvre des revêtements

Vu pour exregistrement le 10 janvier 2013



Secrétariet de la commission des Avis Techniques CSTB, De avenue Jean Jaurès, Champe sur Marne, PR-77447 Marne la Vellée Cedex 2 Tell. : Q1 64 68 82 82 — Prot : Q1 60 05 70 37 — Internet : www.cstb.fr

r le site interest de COTO (Little/Worde 4 CBTD 2013





THERMAL SHOCK AND FREEZE-THAW





PRODUCTOS DE PIEDRA NATURAL

Tecnología de la Piedra Natural s.Lu.

Protocolo de ensayo

DENOMINACION COMERCIAL: STONE PANEL

Fabricante: CUPAMAT s.l. Procedencia: No facilitado Fecha: Jutio 2011 Nº de Certificado: 11033

ENSAYOS DE CARACTERIZACION

ENSAYOS

RESULTADOS

Resistencia al Inclo/deshicle (UNE-EN 12371) Sin alteraciones después de 56 cicles

Conforme :

El director del Laboratorio







