CurvaStone

Created By Nature

INSTALLATION GUIDE

&

TECHNICAL DATA SHEETS

www.curvastone.com

Pre - Installation : Information before you install

IT IS EXTREMELY IMPORTANT that you correctly read and understand the information given in these instructions before starting with the installation, as an incorrect installation, use, or maintenance of the installation may result in the cancellation of the manufacturer's warranty. The points listed below are part of the installer/owner's liability:

Carefully inspect ALL material prior to installation, to verify that it has no defects. Materials installed with visible defects are not covered by the warranty.

Exposure to direct sunlight or contact with water can produce tone changes over time, because the slate may contain oxide traces, it may present oxidation points on its surface when in contact with water. This is something inherent to slate and is NOT a defect.

If you are not satisfied with the material prior to installing, please contact your dealer. DO NOT INSTALL IT.

We recommend that, as a final inspection, you examine the color, finish, style, and quality, BEFORE installing. Verify that the material is right. We will not be liable for any expenses incurred once the pieces with visible defects are installed.

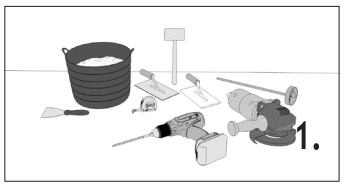
It is the installer's and the owner's responsibility to ensure that work conditions and the work area are suitable, before installing the material.

The installation surface should meet the suitable characteristics for laying on a thin layer: clean surface, dry, rough texture with no ledges or loose parts, and above all flat (slope of 2mm with 2m ruler.)

Check that the weather conditions are suitable for installing the materials.

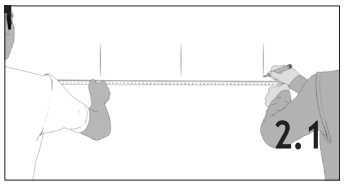
INSTALLATION

1.- The installation of CurvaStone requires competent personnel, with proven experience and suitable tools: notched trowels, rubber roller and trowel, spirit level, sponges, buckets for grouting, and machinery for mixing and cutting the CurvaStone.



2.- Before installing, protect the floor with cardboard or plastic to avoid stains.

2.1.- Next, knowing the sheet format, we shall mark the width and height measurements on the wall, to assist with its installation later. Carry out the construction layout, depending both on the wall tile design and the use demands. Determine type and colour of placement joints, cuts, and perimeter joints.



3.- For installing the sheet, we recommend using masking tape placed on the end of the sheet to prevent the adhesive from depositing on the surface during installation, and to easily remove excess adhesive from the joints between sheets.

3.1.- Check that the base or placement substrate is perfectly vertical, stable, non-deformable, and with no risk of water leaks and moisture in general. Initially place the sheet on the substrate and check that it is perfectly level.

3.2.- For installing CurvaStone, we recommend high quality, high polymer adhesive for internal flat walls - Bio Gel Revolution. For external or curved surfaces which require a high deformability and fast bonding we recommend BioGel Extreme. Follow manufacturer recommendations in the preparation and use of adhesives. Do not apply adhesive with a final thickness greater than that indicated on the container.

Install the wall covering with the thin-layer method with adhesive and notched trowel no bigger than 8 x 8 mm, and use the double bonding method, which consists of applying the adhesive with the notched trowel on the substrate and applying an adhesive layer on the back of the piece with the smooth part of the trowel. Check that when you press the CurvaStone sheet on the adhesive, it does not overflow through the joint.

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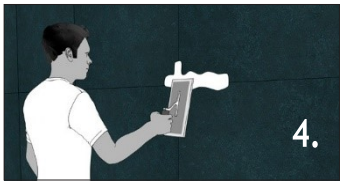
3.3.- Control the adhesive wettability, pressing the CurvaStone sheet on the bonding material, and check that the latter makes full contact with the back of the sheets. Once the adhesive is applied, lay the sheet with the hand and then use a trowel to extract the air from under the sheets.

3.4.- Once the sheet is installed, it is very important to remove the excess adhesive immediately so prevent it from leaving residue on the surface. Clean thoroughly with a damp cloth or paper and let dry.

4.- INSTALLATION JOINTS:

For installing outdoors:



Installation joints should be 1 mm at least. We recommend covering the top of the facade with a trim that prevents the penetration of water.

Use CG2WA-type cement-based joint grout. We recommend using quick-setting and water- resistant joint mortars.

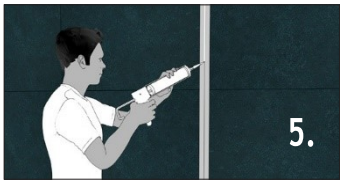
Apply the joint material with a rubber trowel, avoiding the formation of cracks or gaps, and clean before the contact of the joint mortar with the CurvaStone sheets, as this may damage the wall covering or cause moisture stains. To seal the joints, we recommend protecting the sides of the joints with masking tape to avoid staining the material with the product being used to seal the joint.

For installing indoors:

Leaving joints is not necessary for its installation, they can be installed with butt joints.

If you decide to leave a joint, we recommend using CG2WA cement based grout.

5.- MOVEMENT JOINTS



Observe the structural joints present in the substrate. There will be perimeter joints in corners, wall covering changes in plane, and changes in material.

The intermediate movement joints shall configure panels as regular and square as possible. Place a horizontal movement joint at the bottom line of the floor slab of each floor. Do not carry out vertical movement joints separated more than 7 m. with a minimum width of 8 mm.

Outdoors: Use FGS silicone sealant and adhesive.

Indoors: Use FGS silicone sealant and adhesive.

Protect the facade support from adverse weather conditions and other construction works that might damage it.

Efflorescence arises naturally from any mortar containing Portland cement. If efflorescence appears, clean with a brush and a suitable detergent.

Machine the pieces on the back with radial dry cutting machines and cutting disc for multiple materials.

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5.1.– We recommend water-repellent sealer is applied after its installation. After applying the protective liquid, remove excess with a cloth or paper to make the application uniform.

6.- CUTTING AND MACHINING.

Prepare a flat and clean space for making cuts.

Dry drill CurvaStone pieces with drill bits of up to 8 mm in diameter. For larger apertures, use drill bits for dry cutting porcelain.

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K2

- Water Resistant
- Large Format
- Flammability
- Flexibility
- Ultra Thin
- Ultra Light

Description

CurvaStone Flexible Stone Veneers are thin, lightweight, flexible stone material; they are so innovative that they can be applied to any surface or shape. You can create your own expression of style. Transform ordinary spaces with the look and touch of stone, without the difficulty and expense of traditional stone-work. Our Thin Flexible Stone Veneers are a breakthrough in easy-to-work with, authentic surfacing technology.

Size Format - 2400mm x 1200mm

Thickness Range - 1mm-2mm

Weight - Approximately 1.2 to 1.6kgs per sqm. Sheet weight range is 3.5 to 4.6kgs

Composition - Stone veneer, Glass fibre fabric in Polyester resin matrix

Technical & Chemical Analysis

S.NO	TEST	RESULTS	PROTOCOL
1	Water Absorption, % by wt.	3.52	ASTM C-21
2	Thermal Expansion (mm) (Change in thickness)	0.06	IS-2046 Guidelines
3	Density, kg/m2	1.84	IS: 12866-1989 Guidelines
4	Temperature Limits (°C)	190. 0	IS-2046 Guidelines
5	Fire Behaviour (mm/mm) (Burn Rate)	142. 4	IS:15061 Guideline
6	Abrasion Resistance (mm)		IS: 9162-1979
	Avg. Wear	0.9	
	Individual Wear (max.)	1	
7	Weight Per Square Meter (lbs)	4.1	IS: 12866-1966 Guidelines
8	Back side	Glass fibre fabric in Polyester resin matrix	

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Toxic Element ((EN-71 Part-3)Migration of Certain Element)

S.NO	ELEMENTS	REQUIREMENT (mg / kg) MAX	RESULTS (MG/KG)
1	Antimony (as Sb)	60	< 5.0
2	Arsenic (as As)	25	< 5.0
3	Barium (as Ba)	1000	10. 0
4	Cadmium (as Cd)	75	<5.0
5	Chromium (as Cr)	60	<5.0
6	Lead (as Pb)	90	12. 0
7	Mercury (as Hg)	60	<5.0
8	Selenium (as Se)	500	<5.0

Protocol. As per method en-71 Pt-3-1995 for safety of toys (Migration of Certain elements method)

NOTE :- The sample conforms to requirement of EN-Pt-3+A, :2000

Applications : Thin Flexible Stone Veneer is ideal for

1. Furniture production.
2. Curved surfaces and columns
3. Metal
4. Lacquered surfaces
5. Concrete
6. Wood
7. Plywood
8. Particle board
9. Ceramic tiles
10. Drywall
11. MDF (Medium Density Fibreboard).
12. Doors
13. Furniture
14. Exhibition walls
15. Displays and floors
16. Automotive industry
17. Rail, yachts, retail shops
18. Offices and elevators etc

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