XSTONE® SURFACES



MINERAL FAÇADE SYSTEMS · FIRE-RESISTANT PANEL A2 · TECHNICAL GUIDE

VeroBoard AllStar A2 Installation guide

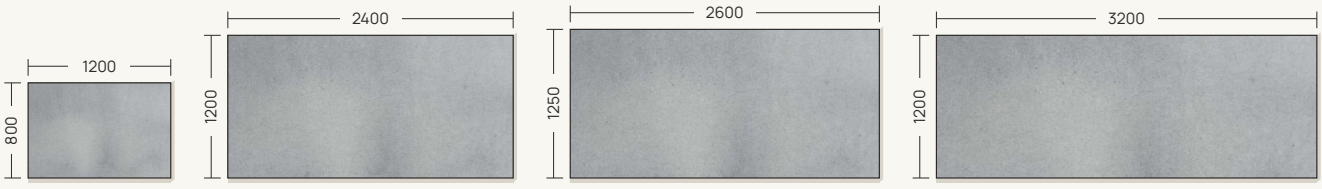
How to plan, cut, fix and care for XSTONE® VeroBoard AllStar: a non-combustible lightweight board of expanded recycled glass, faced with XSTONE® mineral veneer, for façades and interiors. Written for façade builders, installers and site managers.

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The panel at a glance

XSTONE® VeroBoard AllStar is a lightweight construction board of expanded recycled glass, faced with XSTONE® mineral veneer. It is non-combustible (A2-s1,d0), resists frost, humidity and mould, and is used outdoors and indoors.



1200 × 800 mm
0.96 m²

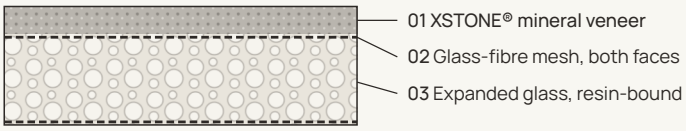
2400 × 1200 mm
2.88 m²

2600 × 1250 mm
3.25 m²

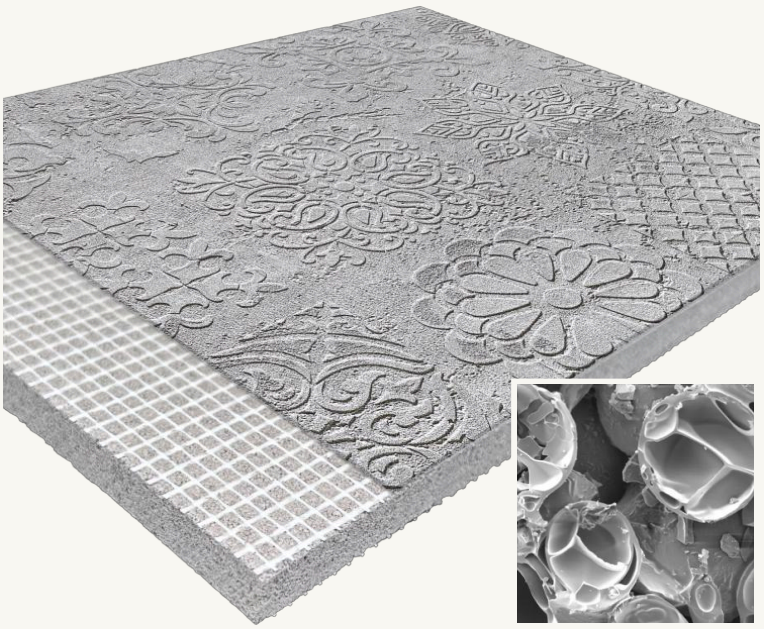
3200 × 1200 mm
3.84 m²

The four standard formats, drawn to the same scale. Dimensions in mm. Thickness 8, 10, 12 or 20 mm. Other sizes on request.

CROSS-SECTION OF THE PANEL



Not to scale.



The panel with the veneer cut back at one corner: the glass-fibre mesh and the core show underneath. Inset: expanded glass beads under the microscope. Made by expanding recycled glass with heat, they make the core light, insulating and stable.

AT A GLANCE

PRODUCT	XSTONE® VeroBoard AllStar A2 · fire-resistant panel
FORMATS	1200 × 800 mm 2400 × 1200 mm 2600 × 1250 mm 3200 × 1200 mm
THICKNESS	8, 10, 12 or 20 mm
FACE	XSTONE® mineral veneer
CORE	Expanded recycled glass, resin-bound, glass-fibre mesh on both faces
REACTION TO FIRE	A2-s1,d0, non-combustible (EN 13501-1)
WEIGHT	About 8 kg/m² at 12 mm Density 540 kg/m³
USE	Outdoors and indoors: façades, soffits, carports, walls, ceilings, damp rooms
PACKAGING	1200 × 800 mm: 4 panels per box (3.84 m²), 30 boxes per pallet (115.2 m²)
INSTALLATION	According to the VeroBoard system

Properties and technical data

Non-combustible
Class A2-s1,d0. In a fire the panel gives off very little smoke and no burning droplets, so escape routes stay visible longer.

Frost resistant
The light, porous core takes up very little free water. That limits the risk of damage from freezing.

Weather resistant
Expanded recycled glass keeps its dimensions in frost, heat and humidity.

UV-resistant
The mineral finish is lightfast and resists UV light.

Moisture and mould
The capillary-active glass beads buffer moisture and inhibit mould. Suitable for damp rooms such as kitchens and bathrooms.

Thermal insulation
Walls warm up faster and need less heating power, without loss of comfort indoors.

Low emission, no odour
The panel releases no harmful substances into the air and has no smell.

Durable and easy to clean
The sealed mineral surface resists staining and is easy to clean and maintain.

Lightweight
A light alternative to plaster and cement boards. It is cut to size with a utility knife.

Technical data

PROPERTY	TEST STANDARD	VALUE
Reaction to fire	EN 13501-1	A2-s1,d0, non-combustible
Density		540 kg/m³
Flexural strength	EN 196-1	9 N/mm² *
Compressive strength	EN 196-1	4 N/mm² *
Flexural modulus	EN ISO 178	1800–2000 N/mm² *
Thermal expansion	TIAP-650	0.0000095 per K
Thermal conductivity	DIN 52612	0.12 W/(m·K) *
Water vapour diffusion resistance factor μ	EN ISO 7783-2	15 *
Swelling when stored in air at 23 °C	VIAM 015 (internal)	0.6 mm/m *

* Tested on a 12 mm panel. The values are averages and can vary slightly from one delivery to the next.

Before you start

XSTONE® VeroBoard AllStar is installed according to the VeroBoard system. This guide explains the principles and how to handle the panel. For the fixing details of your project, contact us before you start.

THREE WAYS TO INSTALL

WHERE	HOW	SEE
Façades, soffits, carports	Screwed to a substructure of rails or battens, with an open air cavity behind the panels.	Page 5
Interior walls, renovation	Bonded to the wall with AllStar combination mortar.	Page 6
Interior walls and ceilings on a frame	Screwed or stapled to a timber or metal frame.	Page 6

Tools and materials

- ☐ Tape measure, pencil, straight edge, level
- ☐ Sharp utility knife with spare blades
- ☐ Wood saw or circular saw for long cuts and openings
- ☐ Cordless screwdriver and stainless-steel VeroBoard system screws
- ☐ Staple gun, for interior frames
- ☐ AllStar combination mortar, mixing paddle and a 10 mm notched trowel, for bonding
- ☐ Ventilation, edge and plinth profiles from the system, for façades
- ☐ Gloves, safety glasses, dust mask when sawing

Substrate

- Walls for bonding: sound, dry, clean and free of dust and loose paint.
- Substructures: load-bearing, plumb and in one plane.
- Check for cables and pipes before you drill.

Not for permanent water. The panel must not stand in water or stay wet all the time.

Other uses. Ask XSTONE® before you use the panel for anything not named in this guide.

Handling and storage

- Store the panels dry, flat and out of the sun.
- Protect them from moisture and damage in transport. Do not throw or knock them.
- Carry large formats upright, with two people. Protect the mineral face and the corners.
- Check finish, colour batch and damage before you cut.

QUANTITY CHECK

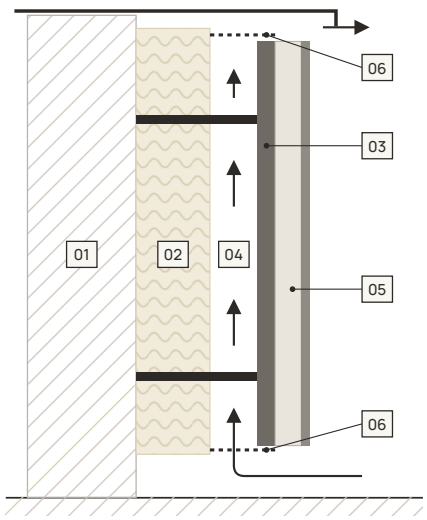
Divide the surface by the area of one panel in your format, then add about **10 %** for cuts.

The 1200 × 800 mm format comes 4 panels to a box (3.84 m²) and 30 boxes to a pallet (115.2 m²). Order all panels for one surface from the same production batch.

1200 × 800 mm	0.96 m² per panel
2400 × 1200 mm	2.88 m² per panel
2600 × 1250 mm	3.25 m² per panel
3200 × 1200 mm	3.84 m² per panel

Ventilated façade

On a façade the panels form a second skin: they are fixed to a substructure in front of the wall, with an open air cavity behind them.



VERTICAL SECTION

Air enters at the base, rises through the cavity and leaves at the top. Not to scale.

01	Load-bearing wall
02	Insulation, where specified
03	Substructure: brackets and rails
04	Air cavity, open at the base and at the top
05	XSTONE® VeroBoard AllStar panel
06	Ventilation profiles with insect protection

How it works

- The cladding has two layers: the panels on a substructure of rails or a frame, and the wall behind, separated by a continuous air cavity.
- Air flows through the cavity from bottom to top. It carries moisture away and reduces heat transfer.
- The panels keep the rain off the wall, protect the structure from condensation and improve the thermal and acoustic performance of the building.
- A single panel can be replaced without work on the wall behind it.

STEP 01

Substructure

Fix the brackets and rails to the load-bearing wall, plumb and in one plane. Fit the insulation where specified.

STEP 02

Air cavity

Keep the cavity open from base to top. Fit ventilation profiles with insect protection at the base, the top, sills and lintels.

STEP 03

Cut

Cut the panels to size with a sharp utility knife along a straight edge. Use a saw for long cuts and openings.

STEP 04

Fix

Screw the panels to the substructure with stainless-steel VeroBoard system screws. Pre-drilling is not needed.

STEP 05

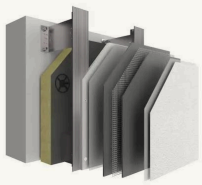
Joints and edges

Butt the panels, or keep the joint width set for the project. Finish edges, window reveals and the base with the system profiles.

STEP 06

Check

Make sure the air inlets and outlets are open and that no water can get behind the cladding at connections.



The VeroBoard façade system in layers.

VEROBOARD SYSTEM

Rail spacing, screw spacing, edge distances and joint widths depend on the building, its height and the wind load. They are set out in the VeroBoard system documents. Contact us before you plan a façade: we send the documents and advise on your project.

Discuss your project →

Interior walls and ceilings

Indoors the panels are bonded straight onto the wall with mortar, or fixed to a frame with screws or staples. Both ways are quick and clean.

Method A · Bond with mortar

For solid walls and renovation

01 STEP — Prepare the wall

The wall must be sound, dry and clean. Remove dust and loose paint.

02 STEP — Cut the panels

Cut the panels to size with a sharp utility knife along a straight edge. Cut openings for sockets and pipes before you bond.

03 STEP — Mix and spread the mortar

Mix the AllStar combination mortar as instructed on the bag. Spread it on the wall or on the back of the panel with a 10 mm notched trowel.

04 STEP — Bond the panels

Press each panel onto the wall and check that it is plumb. Offset the vertical joints from one row to the next by at least 20 cm.

Method B · Fix to a frame

For partitions, ceilings and soffits

01 STEP — Build the frame

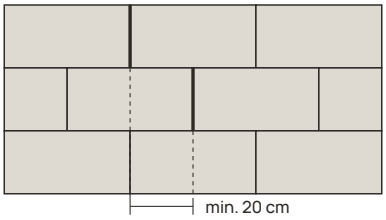
Fix a timber or metal frame, level and in one plane. Every panel edge must rest on the frame.

02 STEP — Cut and fix

Cut the panels to size. Screw or staple them to the frame; pre-drilling is not needed. Butt the panels edge to edge.

Frame and fixing spacing. These depend on the panel thickness and the use. They are set out in the VeroBoard system documents: contact us.

Curves. The board bends to gentle curves without being slit. Ask XSTONE® for the smallest radius for your thickness.



OFFSET JOINTS

Vertical joints are offset from row to row by at least 20 cm.



Method A: the mortar is combed onto the wall with the notched trowel, then the panel is pressed into it.



Interior walls in Concrete Smooth · Light Grey · 1010.

Where it goes, how it lasts

Ventilated façades
New build and renovation

Soffits and carports
Roof soffits, carport cladding

Interior walls and ceilings
A light alternative to plaster and cement boards

Damp rooms
Kitchens, bathrooms, rooms with mould problems

Fit-outs
Hotels, offices, restaurants, shops

Care and maintenance

The sealed mineral surface needs little care, outdoors and indoors.

Outdoors	Rain keeps the façade clean. Where dirt collects, rinse with clean water and a soft brush.
Indoors	Dust with a soft cloth or brush. Wipe marks with a damp cloth and a pH-neutral cleaner.
Avoid	Abrasive pads, solvents, acidic or alkaline cleaners, and pressure washers held close to the surface.
Inspection	Once a year, check the fixings and joints of a façade and make sure the air inlets and outlets are clear.
Damage	A damaged panel can be taken off and replaced on its own. Keep a few spare panels from the batch.



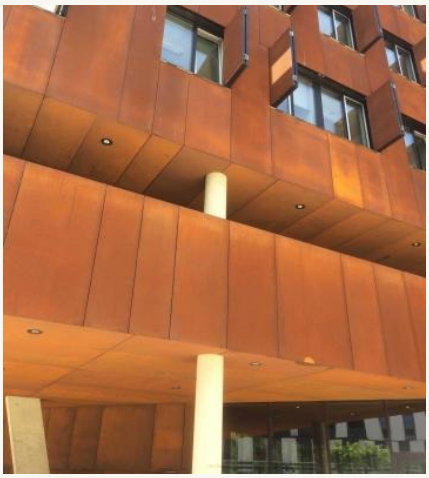
Ventilated façade in Slate Black · 1302.



Façade and plinth in a concrete finish.



Entrance wall in a concrete finish, with applied lettering.



Façade and soffits in a rust finish.

Certifications and responsibility

The core of the panel is expanded glass made from recycled glass. XSTONE® manufactures the mineral veneer from 90 % recycled marble powder, reusing quarry waste in a low-energy, low-water process. The panel is light to transport and can be recycled at the end of its life.

Reaction to fire	A2-s1,d0, non-combustible (EN 13501-1).
Indoor air	A+ VOC emission class: only minimal emissions into indoor air.
Marking	Products certified to European standards (CE).

CE. Certified to European standards.

A+. Indoor air emissions, the best class.

Blue Angel. German ecolabel for products that meet high standards for the environment, health and fitness for use.

EPD. Environmental Product Declaration: verified life-cycle data for certified buildings.

BREEAM. Contributes to Materials and Resources, Indoor Environmental Quality and Innovation in Design.

LEED. Contributes to MRc1 Construction Waste, MRc2 Building Life-Cycle Impact, MRc4 Material Ingredients and MRc5 Responsible Sourcing.

Credit contributions depend on the project and the assessment version. Ask XSTONE® for the supporting documents.

TECHNICAL ASSISTANCE

Talk to our team

Installation follows the VeroBoard system. For the system documents, fixing details, test reports and advice on your project, contact us before you order and while you install. Send drawings and photos; we reply with a recommendation.

Request samples →

Discuss your project →

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Plinth in a board-marked concrete finish.



Office building, concrete finish.



Office building, rust finish.

This guide gives general instructions for XSTONE® VeroBoard AllStar panels. Installation follows the VeroBoard system; buildings, substrates and loads vary, so ask XSTONE® before you start. Performance values refer to the tested construction named with each value. Edition 11 / 2026; it replaces all previous editions.

STONE CHARACTER. FREEDOM OF FORM.