STONINI™

INSTALLATION GUIDE

Decorative wall panels | Illustrated technical edition

ADHESIVES / JOINTS / FIXINGS / CORNERS / HANDLING

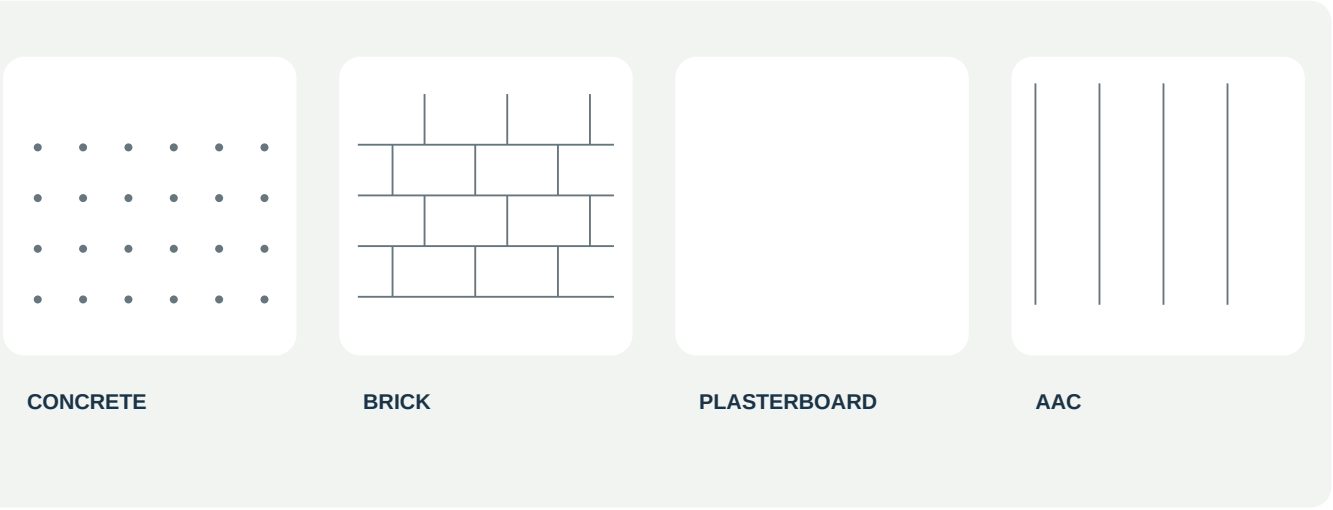
Manufacturer installation recommendations for Stonini decorative wall panels.

01 SUBSTRATES & PREPARATION

Surface suitability and preparation

SUITABLE SUBSTRATES

Concrete | Brick | Cement render | AAC / Hebel | Fibre cement
Construction-grade knot-free plywood | Plasterboard | MDF



PREPARATION

All substrates must be flat and free from loose particles, grease, oil and defects. Smooth surfaces require a suitable non-porous primer before adhesion.

AAC / HEBEL SURFACE SEALING

If adhering to AAC, surface must be sealed with Bondall BondCrete.
Sealing coat: dilute 1:4 with water (porous surfaces may need an initial 1:6 coat followed by 1:4).

DIRECT-TO-STUD APPLICATION

For internal use only, panels may be adhered directly to timber or metal studwork using Megapoxy, with studs at a maximum of 300 mm centres.

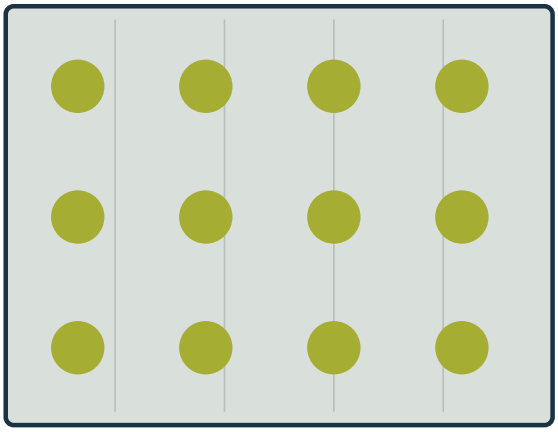
IMPORTANT

Check substrate condition and adhesive suitability before beginning installation.

02 ADHESIVE APPLICATION

Interior dab patterns and exterior full embedment

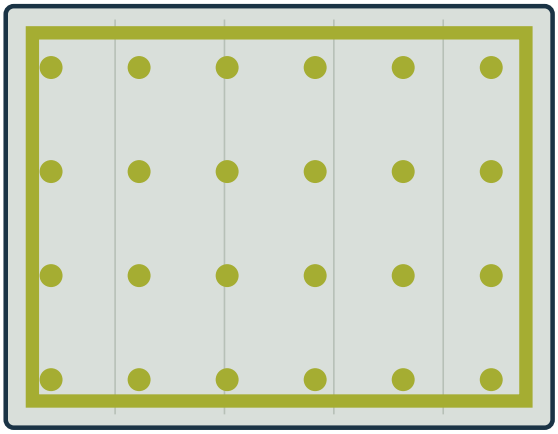
FIGURE 1 | INTERNAL EPOXY / TILE ADHESIVE



10–12 adhesive dabs

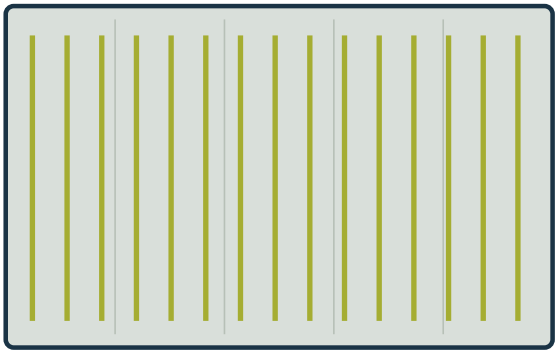
Approximately 80 mm diameter. Interior / dry areas only; do not use this dab method in moisture-exposed areas.

FIGURE 1b | INTERNAL FIRE-RATED POLYURETHANE



Akfix P636 or another suitable fire-rated polyurethane: approximately 24 small dabs plus a perimeter bead. Beads may be applied to the wall or panel.

FIGURE 2 | EXTERIOR FULL EMBEDMENT

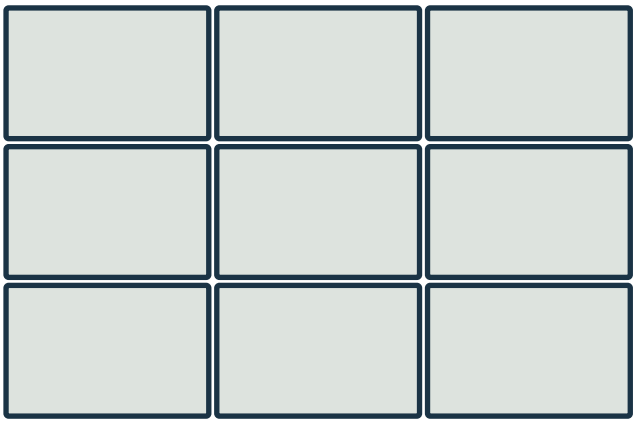


Coat the panel with Megapoxy or another two-part epoxy adhesive, then screed with a 3–6 mm notched trowel. Do not use tile adhesive or polyurethane adhesive for exterior application.

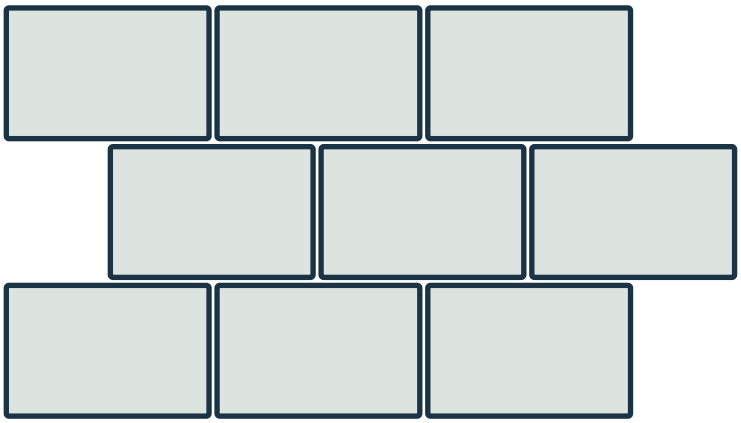
03 PANEL LAYOUT & JOINTS

Orientation, bond and joint selection

STACKED BOND



STRETCHER BOND



LAYOUT OPTIONS

Panels may be installed horizontally or vertically. Stacked or stretcher bond may be selected to suit the design. Some panel profiles will have visible joins.

BUTT JOINT

3 mm EXPRESSED JOINT

JOINT FINISHING

Butt joints can be used where acceptable to the design. Painted joints may be filled with fire-rated acrylic (Akfix 607 or similar) and touched up. Plastic spacers behind panels can compensate for small thickness differences.

PROFILE-SPECIFIC DETAIL

For profiles requiring precise pattern continuation, such as Rhythm, a 3 mm expressed gap is recommended. Grouted joints may be used following appropriate tiling practice.

04 HIGH-WALL INSTALLATION

Mechanical fixing threshold and support options

WALL HEIGHT

UP TO 3.0 m

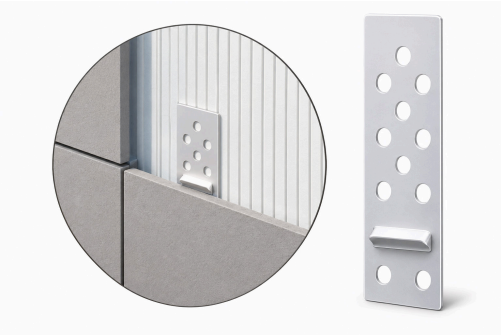
Additional mechanical fixing is not specified.

WALL HEIGHT

ABOVE 3.0 m

Additional mechanical fixing is recommended with suitable adhesive.

OPTION A | RAI-FIX 6 mm CONCEALED SAFETY BRACKET



Concealed bracket fixing in addition to the selected adhesive. Consult the manufacturer's bracket installation requirements.

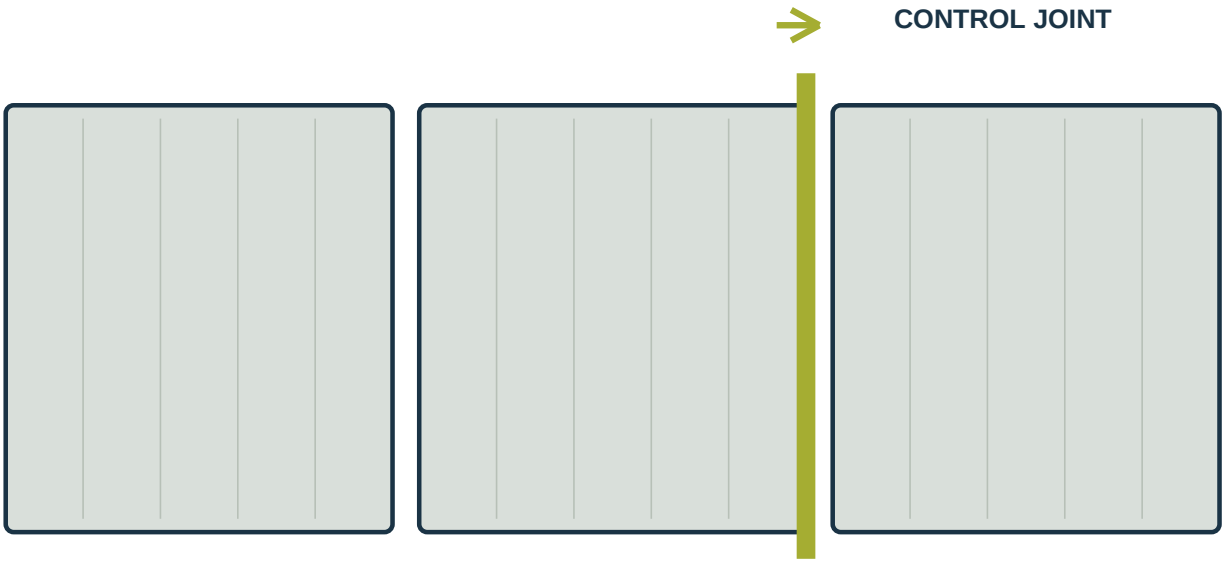
ADHESIVE RESTRICTIONS

Exterior: epoxy adhesive only. Interior: epoxy or suitable polyurethane.

05 CONTROL & MOVEMENT JOINTS

Long wall runs and perimeter clearances

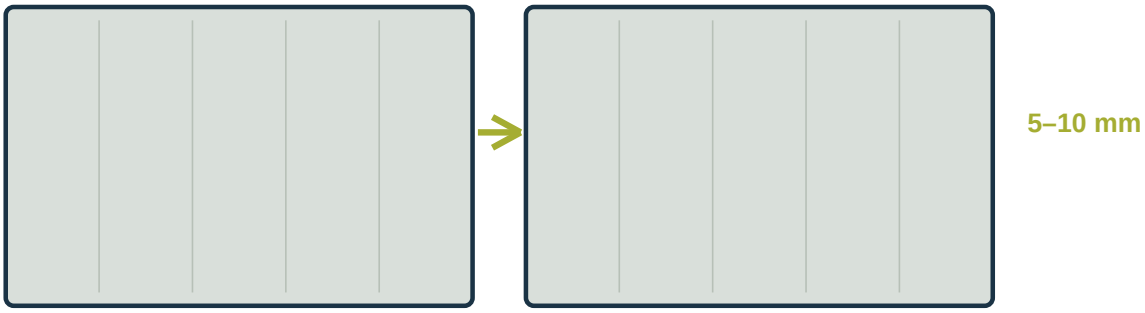
FIGURE 4 | VERTICAL CONTROL JOINT



LONG HORIZONTAL RUNS

For walls longer than 6 m, provide a vertical control joint beyond that point. Use a vertical flat aluminium bar / angle or an expressed joint 5–10 mm wide.

EXPRESSED JOINT DETAIL



PERIMETER CLEARANCES

A 5–10 mm expressed gap may also be used where panels are installed between hard walls and ceilings.

06 EXTERNAL CORNER DETAILS

Four architectural finishing options

FIG. 5 BIRDS-MOUTH PROFILE

Birds-mouth trim at outside corner.

FIG. 6 MITRE + EXPRESS BAR

Mitred panels with expressed bar.

FIG. 7a BOX SQUARE ALUMINIUM TRIM

Box square aluminium trim.

FIG. 7b TILING ANGLE

Exposed tiling angle trim.

07 INTERNAL CORNER DETAILS

Shadow-line and aluminium angle options

FIGURE 8 | EXPRESSED SHADOW LINE

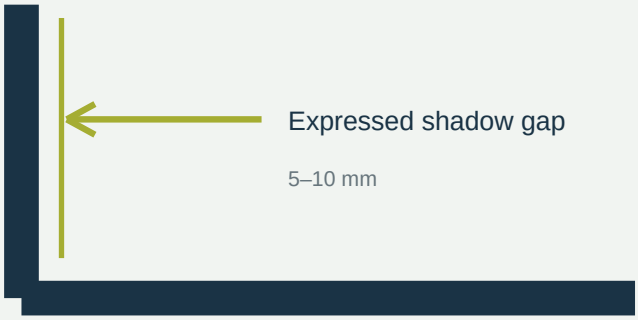


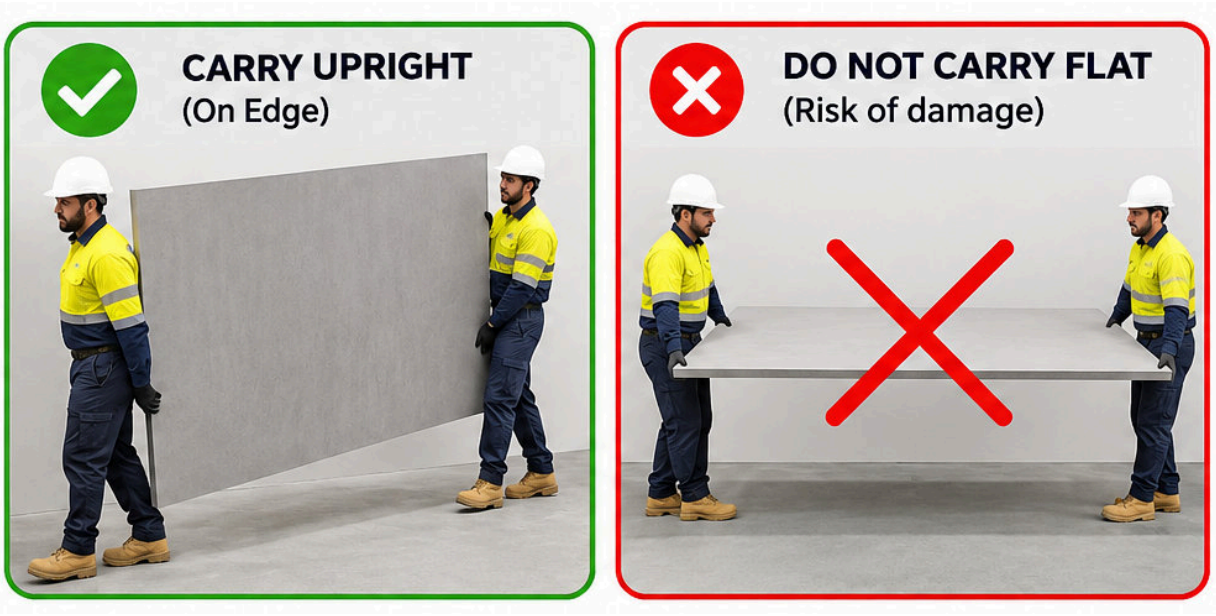
FIGURE 9 | ALUMINIUM ANGLE

DESIGN NOTE

Corner details should be selected to suit the profile, wall build-up and desired architectural finish.

08 HANDLING, STORAGE & CARE

Panel protection from delivery through installation



DO NOT CARRY PANELS FLAT

Carrying panels flat can cause them to flex, crack or snap.

STORAGE

Store on a flat surface in a dry area. Stack no more than 8–10 panels at a time (profile-dependent). Separate panels with polystyrene sheets or protective foam.

CLEANING

Use a white damp cloth, water or mild detergent for most spills and marks. Do not use coloured rags or solvent-based cleaners.

PRODUCT CHARACTERISTICS

Stonini panels are handmade. Slight variation in dimensions and appearance may occur. Packing may be needed where walls are not plumb or panel thickness varies.

09 INSTALLER REFERENCE

Key installation requirements at a glance

SUBSTRATE	Flat, clean, sound; prime smooth surfaces.
STUD FIXING	Internal only; Megapoxy; maximum 300 mm centres.
INTERIOR DABS	10–12 epoxy/tile adhesive dabs, approximately 80 mm.
POLYURETHANE	About 24 small dabs plus perimeter bead (interior).
EXTERIOR	Full epoxy embedment; 3–6 mm notched trowel.
HIGH WALL	Above 3.0 m: additional mechanical fixing recommended.
LONG WALL	Beyond 6 m: vertical control joint; 5–10 mm gap.
HANDLING	Carry vertically; never carry flat.
STORAGE	Dry, flat, 8–10 panels maximum; foam separators.

STONINI SUPPORT

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Manufacturer recommendations only. Installation quality depends on substrate preparation and installer workmanship.