



IMPACTPRO® CALYX

Professional Installation Guide

Storage - substrate preparation - pattern setting - bonding - joints - corners - handover

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BEFORE INSTALLATION

Pre-installation checks

- Confirm sheet quantity, pattern, colour, orientation and condition before cutting.
- Store sheets completely flat, clean, dry and fully supported.
- Condition sheets in the installation area for at least 24 hours at 14°C to 22°C.
- Confirm walls are sound, dry, smooth, clean, level and free from wallpaper, loose coatings, grease and contamination.
- Establish horizontal and vertical datum lines before measuring or cutting.
- Plan the engraved pattern, sheet joints, trims, corners, penetrations and movement allowances before adhesive application.

Recommended tools

Setting / measuring	Cutting / finishing	Bonding / site
Laser or spirit level; tape measure; straightedge; square; datum marker	Fine-toothed saw or plastic-cutting blade; router where suitable; deburring tools	4mm notched trowel; laminate roller; cartridge gun; approved adhesive and sealant; PPE

SUBSTRATE PREPARATION

Substrate acceptance

- Substrate must be structurally sound and securely fixed.
- Surface must be dry and free from active moisture.
- Finish must be smooth, flat and level so the engraved pattern remains visually controlled.
- Remove wallpaper, loose paint, friable plaster, dust, grease and contamination.
- Correct defects, hollows, high spots and unsuitable repairs before installation.
- Identify services and penetrations before drilling or cutting.

Typical substrates

Substrate	Preparation
Plasterboard / dry lining	Securely fixed, joints finished, dry, smooth and dust-free.
Cement board	Securely fixed and prepared for selected adhesive.
Plywood / suitable boards	Rigidly fixed, joints and fixings flush; suitable for environment.
Existing ceramic tiles	Securely bonded, cleaned and degreased; make good missing or loose tiles.
Plaster / render	Fully cured, sound, smooth and dust-free.
Concrete / blockwork	True, clean, dry and free from laitance or contamination.

PLANNING, MEASURING & CUTTING

Pattern control

- Establish the finished visual layout before cutting sheets.
- Use datum lines to control tile courses and vertical breaks. Do not assume floors, ceilings or corners are square.
- Dry-position adjoining sheets and confirm engraved-pattern continuity before applying adhesive.
- Number sheets in installation order and retain orientation marks.
- Measure each wall position independently and identify every sheet before cutting.
- Provide 2mm movement allowance at floors, ceilings, corners, penetrations and abutments unless the approved detail states otherwise.

Cutting

- Support the full sheet and cut face-up with a fine-toothed saw or suitable plastic-cutting blade.
- Trial-cut an offcut first to confirm a clean edge.
- Remove burrs carefully without scratching or chipping the printed and hard-coated face.
- Use radiused internal corners to cut-outs where appropriate to reduce stress concentration.

ADHESIVE APPLICATION & SHEET FIXING

Full-bed bonding

- Use an approved compatible polyurethane or MS polymer wall-cladding adhesive.
- Apply adhesive evenly using a 4mm notched trowel. Spot-bonding is not suitable.
- Work only over an area that can be covered within the adhesive open time.
- Offer the sheet into position carefully and align it to the datum before the adhesive begins to grab.
- Roll the complete sheet surface from the centre towards the edges to create uniform transfer and remove trapped air.
- Re-check movement gaps, joint engagement, pattern alignment and contact around openings.
- Remove surplus adhesive or sealant before cure using the approved cleaning method.



JOINTS, CORNERS & PENETRATIONS

Jointing

- Use the approved project jointing method and dry-check every joint before bonding.
- Maintain pattern alignment across adjacent sheets.
- Where a sealed joint is specified, apply compatible sanitary sealant continuously.
- Engage or complete joints evenly without distorting the sheet or engraved detail.
- Inspect completed joints for continuity, cleanliness and alignment.

Internal and external corners

- CALYX must not be thermoformed.
- Use compatible corner trims or an approved project-specific corner detail.
- Plan cuts so visible pattern courses terminate cleanly at corner trims.
- Maintain the specified movement allowance and seal required interfaces continuously.

Penetrations and exposed edges

- Provide the required movement clearance around pipes, outlets and services.
- Complete exposed edges with compatible trims or approved sealed details.
- Do not leave raw cut edges, open gaps or unsealed voids in hygiene-critical locations.

CLEANING, PROTECTION & HANDOVER

Final clean

- Allow adhesive and sealant to cure in accordance with product instructions.
- Remove protective film and installation debris carefully.
- Use a soft cloth or non-abrasive pad with compatible neutral detergent.
- Do not use abrasive pads, wire wool, sharp scrapers or unapproved solvents.

Protection

- Protect completed walls from follow-on trades, impact, sharp objects and direct heat.
- Keep the area dry and within the documented service-temperature range.

Handover

- Check pattern alignment, joints, corners, trims, penetrations and perimeter seals.
- Remove adhesive and sealant contamination.
- Provide the Technical Data Sheet and Cleaning & Maintenance Guide within the O&M; information.