

PROFESSIONAL INSTALLATION GUIDE

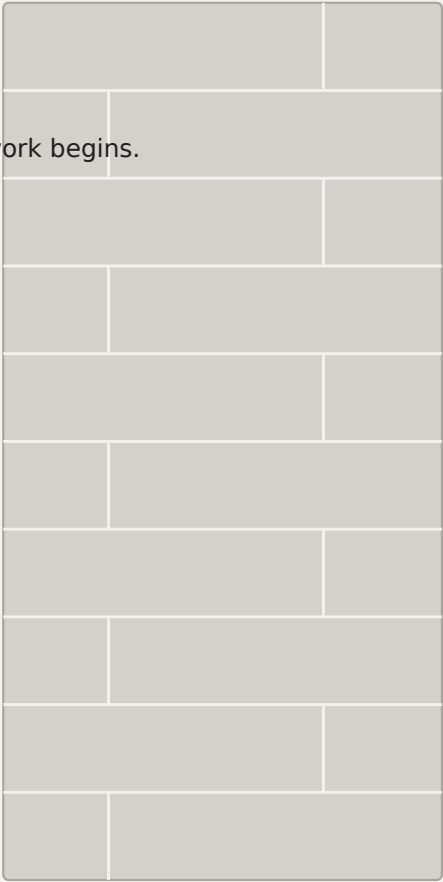
IMPACTPRO[®] CALYX

Tile-effect hygienic wall cladding

SYSTEM SUMMARY	2440 × 1220 × 2.5mm solid PVC-U sheets, digitally printed, precision CNC engraved and finished with a clear antimicrobial matt hard coating.
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VERSION 1.0 | AUGUST 2026

For trained and competent installers. Read this guide in full before work begins.



READ BEFORE INSTALLATION

Before You Begin

This guide sets out the minimum installation sequence for IMPACTPRO® CALYX tile-effect hygienic wall cladding. It must be read alongside the current technical data, project specification and the instructions supplied with the selected adhesive, sealant, trims and tools.

IMPORTANT

Failure to follow the approved installation procedure, use compatible system components or provide a suitable substrate may affect appearance, performance and warranty coverage.

Critical Requirements

Condition for at least 24 hours

Store sheets flat in the installation area and maintain an ambient temperature of 14°C to 22°C.

Accept only a suitable substrate

The wall must be sound, dry, smooth, clean, level and free from wallpaper, loose coatings, grease and contamination.

Plan the engraved pattern

Establish datum lines and dry-position sheets before applying adhesive. Confirm orientation and joint alignment.

Use full-bed adhesive coverage

Apply approved polyurethane or MS polymer wall-cladding adhesive with a 4mm notched trowel. Never spot-bond.

Tools, Materials and Safety

- | | |
|--|---|
| ☐ Tape measure, straightedge and square | ☐ Laser or spirit level and datum marker |
| ☐ Fine-toothed saw or plastic-cutting blade | ☐ 4mm notched trowel |
| ☐ Laminate roller | ☐ Approved adhesive, sealant and trims |
| ☐ Cartridge gun and approved cleaning materials | ☐ Suitable PPE and dust extraction |

**HEALTH AND
SAFETY**

Complete project RAMS and COSHH assessments, follow tool and material safety data, isolate concealed services before drilling or cutting, provide ventilation and use two-person handling where required for full-size sheets.

STEP 01

Delivery, Storage and Conditioning

01

Inspect on arrival

Check packaging and sheets for visible transit damage before signing the delivery documentation. Photograph and record any damage immediately.

02

Store completely flat

Keep sheets supported over their full area in a clean, dry internal location. Do not store on edge or place heavy objects on the finished face.

03

Protect the surface

Keep sheets clean and protected from impact, sharp objects, direct heat and contamination during storage and handling.

04

Condition in the work area

Move sheets into the installation area for a minimum of 24 hours before fitting. Maintain 14°C to 22°C during conditioning and installation.

STEP 02

Substrate Preparation

The completed CALYX installation will only be as sound and visually consistent as the substrate provided. Do not use the sheet to bridge or conceal an unsuitable wall.

Substrate acceptance checklist

- | | |
|--|--|
| ☐ Structurally sound and securely fixed | ☐ Dry and free from active moisture |
| ☐ Smooth, flat and level | ☐ Clean and free from grease or dust |
| ☐ Wallpaper and loose paint removed | ☐ Porous surfaces stabilised with approved primer |
| ☐ Defects, hollows and high spots corrected | ☐ Services and penetrations identified |

**DO NOT
PROCEED**

Do not install over wallpaper, loose coatings, friable plaster, damp surfaces, uncured repairs, contamination or visibly uneven backgrounds. Record concerns and obtain written instruction before continuing.

STEP 03

Planning, Measuring and Cutting

CALYX has a directional engraved design. Establish the layout before cutting so tile courses, vertical breaks, joint positions and corner details remain deliberate and consistent.

01

Confirm the finished layout
Check drawings, elevations, trim positions, sheet joints, internal and external corners, openings and the starting point for the pattern.

02

Establish datum lines
Use a laser or level to create accurate horizontal and vertical reference lines. Do not assume floors, ceilings or corners are square.

03

Dry-position the sheets
Check every sheet for orientation, colour consistency, surface condition and engraved-pattern alignment before adhesive is applied.

04

Measure and mark
Measure each location independently. Mark the rear of the sheet clearly and identify its wall position and orientation.

05

Allow movement
Provide a 2mm expansion allowance at floors, ceilings and internal corners unless the approved project detail states otherwise.

06

Cut accurately
Support the full sheet and cut face-up with a fine-toothed saw or suitable plastic-cutting blade. Trial-cut offcuts first and remove sharp burrs without damaging the face.

Openings and penetrations

- Drill radiused corners to internal cut-outs where appropriate to reduce stress concentration.
- Provide the clearance required by the approved penetration detail and seal the completed opening.
- Check concealed services before drilling or cutting.
- Do not force a cut sheet into place; re-check the measurement and detail.

**PATTERN
CONTROL**

Number sheets in installation order and retain a marked reference offcut. Never rotate a sheet solely to save material if doing so reverses or misaligns the engraved design.

STEP 04

Adhesive Application and Sheet Installation

**FULL-BED
ADHESION ONLY**

Apply a continuous bed of approved polyurethane or MS polymer wall-cladding adhesive using a 4mm notched trowel. Spot-bonding is not permitted.

01

Complete a final dry check

Confirm the sheet number, orientation, cut-outs, trims, movement allowance and alignment against the datum lines.

02

Clean the sheet rear and prepare the adhesive

Remove dust and contamination from the bonding face. Follow the adhesive manufacturer instructions for compatibility, mixing, coverage, working time, temperature and safety.

03

Spread an even adhesive bed

Apply adhesive to the designated bonding surface using the 4mm notched trowel consistently. Work only over an area that can be covered within the stated open time.

04

Offer the sheet into position

Place the sheet carefully without dragging the finished face against trims or adjacent surfaces.

05

Align before pressure

Set the sheet to the datum and confirm engraved-pattern continuity before the adhesive begins to grab.

06

Roll the complete surface

Use a laminate roller from the centre towards the edges to remove trapped air and create uniform adhesive transfer.

07

Re-check the perimeter

Confirm movement gaps, joint engagement, pattern alignment and full contact around edges and openings.

08

Remove contamination immediately

Clean surplus adhesive or sealant using the approved method before it cures. Do not use abrasive pads or unapproved solvents.

Installation controls

- | | |
|---|---|
| ☐ Correct adhesive and batch | ☐ 4mm notch maintained |
| ☐ No dry patches or spot bonding | ☐ Sheet rolled over full area |
| ☐ Datum and tile courses aligned | ☐ Perimeter allowance retained |

STEP 05

Joints, Corners, Penetrations and Finishing

Select the approved joint and corner method before installation begins. Every detail must maintain the intended hygienic finish while allowing the engraved pattern to remain visually controlled.

Half-lap joints - where specified

- Dry-check the overlap and pattern alignment before applying sealant.
- Apply the approved sanitary sealant continuously into the joint before engaging the adjoining sheet.
- Engage the joint evenly without forcing or distorting the sheet.
- Remove surplus sealant immediately using the approved cleaning method.
- Inspect the finished joint for continuity, cleanliness and alignment.

Internal and external corners

**DO NOT
THERMOFORM
CALYX**

The printed, engraved and hard-coated CALYX sheet must not be thermoformed around corners. Use a compatible corner trim or an approved project-specific corner detail.

- Install trims plumb, straight and securely fixed in accordance with their system instructions.
- Maintain the specified movement allowance at internal corners.
- Plan sheet cuts so the visible pattern terminates cleanly at the trim.
- Seal all required interfaces continuously with the approved compatible sealant.

Penetrations and exposed edges

- Use compatible trims or approved sealed details at exposed edges.
- Seal around pipes, outlets and other penetrations after confirming the required movement clearance.
- Do not leave raw cut edges, gaps or unsealed voids in hygiene-critical locations.
- Avoid overfilling sealant joints; finish them smooth and clean without spreading sealant over the matt face.

STEP 06

Completion, Cleaning and Handover

Complete the installation inspection before the area is released to following trades. Record any defect, contamination or incomplete detail and rectify it using approved materials.

Final installation checklist

- | | |
|--|--|
| ☐ Sheets secure with no hollow or loose areas | ☐ Engraved pattern correctly oriented |
| ☐ Horizontal and vertical courses aligned | ☐ Joints fully engaged and clean |
| ☐ Corners completed with approved details | ☐ Penetrations sealed and finished |
| ☐ Movement allowance retained where required | ☐ No adhesive or sealant contamination |
| ☐ Surface free from scratches and impact damage | ☐ Area protected until practical completion |

Cleaning

- Remove installation residues before they cure, following the adhesive or sealant manufacturer instructions.
- For routine cleaning, use a soft cloth or non-abrasive pad with a compatible neutral cleaning product.
- Do not use abrasive powders, scouring pads, sharp scrapers or unapproved solvents on the hard-coated face.
- Rinse or wipe away cleaning residue and dry the surface where required.

Protection and handover

- Prevent other trades from leaning equipment, cutting materials or applying tape directly to the finished surface.
- Allow adhesives and sealants to cure for their stated period before cleaning, wet use or service.
- Provide the client with the current cleaning guidance, product information and details of the installed joint and trim system.
- Retain batch details, delivery records and installation photographs with the project file.

**HANDOVER
STANDARD**

The finished installation should present a clean, continuous tile-effect surface with consistent pattern alignment, secure adhesion and complete hygienic detailing.

REFERENCE

Technical Summary and Support

Specification	Detail
Material	Solid semi-rigid PVC-U
Sheet size	2440 × 1220mm
Thickness	2.5mm
Coverage	Approximately 2.98m ² per sheet
Surface	Digitally printed, CNC engraved and clear antimicrobial matt hard coated
Fire classification	B-s3,d0
Maximum service temperature	60°C
Installation	Fully bonded using an approved compatible adhesive
Corners	Cannot be thermoformed; use compatible trims or an approved detail

Technical support

For product selection, installation details, samples or project pricing, contact Impact Group UK before work begins.

Telephone
0800 669 630

Email
hello@impactgroupuk.com

Website
impactgroupuk.com/impactpro-calyx-tile-effect



Scan for current CALYX
product information

**DOCUMENT
STATUS**

This guide provides general installation requirements for IMPACTPRO® CALYX. Project-specific specifications, approved details and current component manufacturer instructions take precedence where they impose a higher or more specific requirement.