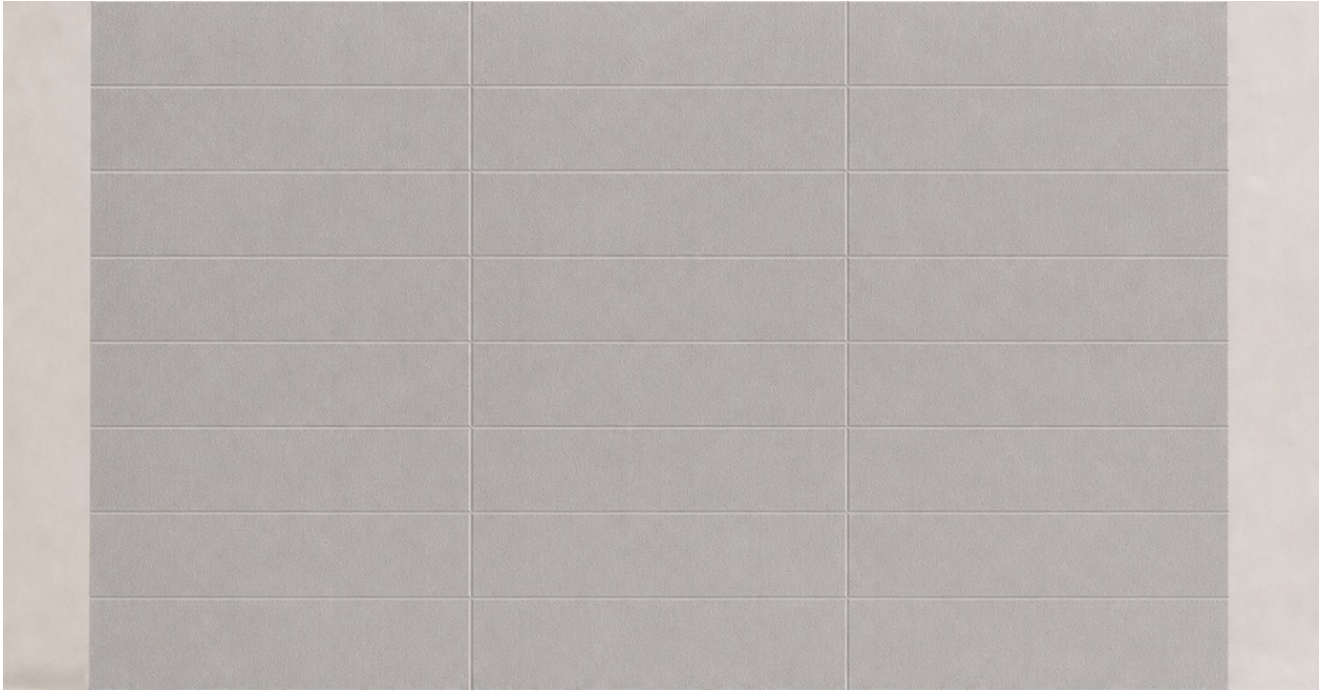




IMPACTPRO® CALYX

Tile-Effect Hygienic Wall Cladding

Technical Data Sheet - 2.5mm solid PVC-U decorative hygienic wall system

DOCUMENT	IMP-CX-TDS-001
REVISION	Rev A
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PRODUCT DEFINITION & TECHNICAL PERFORMANCE

Product definition

IMPACTPRO® CALYX is a decorative tile-effect hygienic wall cladding system manufactured from a single solid semi-rigid PVC-U sheet. The face is digitally printed, precision CNC engraved and protected by a clear antimicrobial matt hard coating to create a tiled appearance without separate ceramic tiles or conventional porous grout.

Parameter	Value	Details
Material	Solid semi-rigid PVC-U	Decorative hygienic wall-cladding sheet
Surface finish	Printed, precision engraved and clear matt hard coated	Continuous tile-effect face
Nominal thickness	2.5mm	Solid sheet construction
Standard sheet size	2440 x 1220mm	Approx. 2.98m ² nominal coverage
Standard colour	Mineral Grey	Alternative colours subject to project requirements
Pattern options	Stacked Metro, Herringbone, Hexagon, Chevron, KitKat	Precision engraved designs
Maximum service temperature	60°C	Interior service limit
Corner forming	Not thermoformable	Use compatible trims or approved corner details

Physical and mechanical properties

Property	Standard	Value
Weight	-	3300-3600 g/m ²
Density	ISO 1183	1.44 g/cm ³
Hardness (Shore D)	ISO 868	76
Notched impact resistance	ISO 179/1ea	9.5 kJ/m ²
Impact resistance	ISO 179/1eU	No break at +20°C, 0°C and -20°C
Flexural strength	ISO 178	78 MPa
Tensile strength	ISO 527	53 MPa
E-modulus of elasticity	ISO 527	2980 MPa
Compressive strength	DIN 53421	68 N/mm ²

THERMAL, MOISTURE & FIRE PERFORMANCE

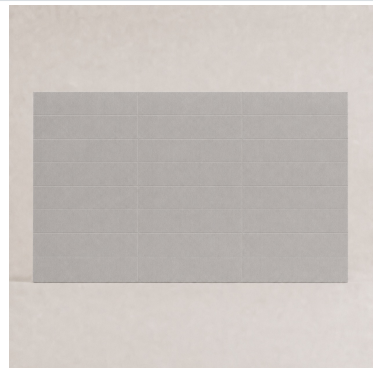
Property	Standard	Value
Maximum service temperature	-	60°C
Vicat softening point VST/B	ISO 306	73°C
Expansion coefficient	DIN 53752	0.07 mm/mK
Heat distortion temperature	ISO 75-2	60°C
Water absorption	ISO 62	<= 0.1%
Thermal conductivity	EN 12524	0.17 W/mK
U-value bonded to 100mm block wall	DIN 52612	1.8 W/m ² °C
Moisture vapour transmission rate	ASTM E96	<= 0.12 g/m ² /24hrs
Water vapour resistivity	ASTM E96	3.82 x 10 ⁻⁵ GN.s/kg.m
Reaction to fire	EN 13501-1	B-s3,d0

Installation requirements

- Fully bond sheets to a sound, dry, smooth, clean and level substrate.
- Use an approved compatible polyurethane or MS polymer wall-cladding adhesive.
- Apply a continuous adhesive bed with a 4mm notched trowel. Do not spot-bond.
- Dry-fit every sheet before bonding and maintain engraved-pattern alignment across joints.
- Provide 2mm movement allowance at perimeters, penetrations and abutments unless the approved project detail states otherwise.
- CALYX must not be thermoformed. Complete internal and external corners with compatible trims or approved project details.

DESIGNS, CLEANING & APPLICATIONS

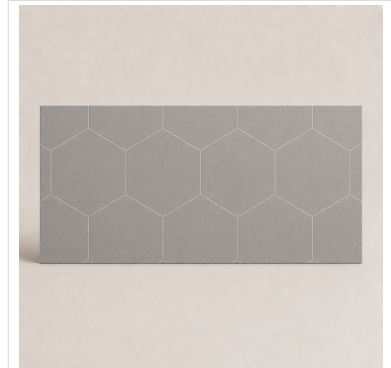
CALYX pattern collection



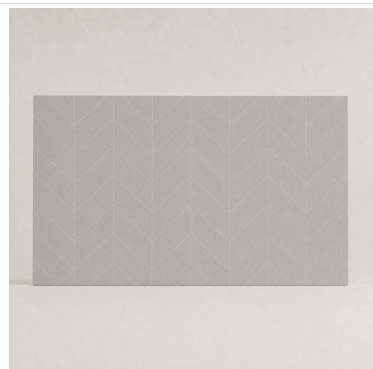
Stacked Metro



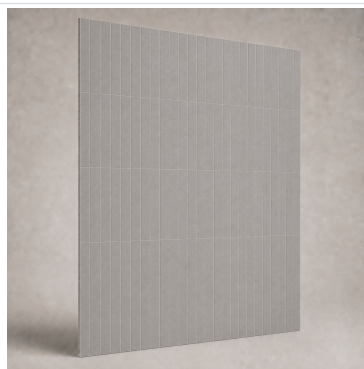
Herringbone



Hexagon



Chevron



KitKat

Cleaning

- Use a soft cloth or non-abrasive pad with a suitably diluted compatible neutral detergent.
- Do not use abrasive pads, wire wool, sharp scrapers or unapproved solvents.
- Do not clean above the maximum service temperature of 60°C.
- Remove spills and surface contamination promptly and rinse as required by the selected cleaning product.

Typical applications

- Bathrooms, shower rooms and washrooms.
- Changing, leisure and hospitality facilities.
- Healthcare, care and education environments.
- Reception, welfare and design-led commercial interiors.