



IMPACTPRO® GLOSS

Hygienic Wall Cladding

Technical Data Sheet - 2.5mm high-gloss PVCu wall protection system

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PRODUCT	IMPACTPRO® Gloss Hygienic Wall Cladding

PRODUCT DEFINITION & KEY PERFORMANCE

Product definition

IMPACTPRO® Gloss is a 2.5mm hygienic PVCu wall cladding sheet with a high-gloss decorative surface for internal wall applications requiring a durable, impervious and easy-to-clean finish. The complete system is designed for installation with compatible IMPACTPRO® profiles, IMPACTPUR adhesive, hygienic silicone and, where specified, heat-welded joints or thermoformed corners.

Parameter	Value	Details
Material	Extruded semi-rigid PVCu	Hygienic wall cladding sheet
Thickness	2.5mm	Nominal sheet thickness
Standard sheet sizes	2438 / 2744 / 3048 x 1220mm	Availability varies by colour
Surface finish	High gloss	Protective film retained during installation
Weight	3.5 kg/m ²	Nominal sheet weight
Maximum service temperature	60°C	Upper continuous service temperature
Colour range	Refer to IMPACTPRO® Gloss colour/sample card	Refer to current range availability

Physical & mechanical properties

Property	Test method	Result	Unit
Density	ISO 1183	1.41	g/cm ³
Hardness (Shore D)	ISO 868	77	-
Notched impact resistance	ISO 179/1ea	6.1	kJ/m ²
Impact resistance	ISO 179/1eU	No breakage	-
Flexural strength	ISO 178	81	MPa
Tensile strength	ISO 527	56	MPa
E-modulus of elasticity	ISO 527	3050	MPa
Compressive strength	DIN 53421	70	N/mm ²

THERMAL, FIRE, WATER-VAPOUR & COMPLIANCE DATA

Property	Test method	Result	Unit
Vicat softening point VST/B	ISO 306	80	°C
Coefficient of linear thermal expansion	DIN 53752	0.08	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/m²K
Moisture vapour transmission rate	ASTM E96	≤ 0.12	g/m²/24h
Water vapour resistivity	ASTM E96	3.82 x 10 ⁵	GN.s/kg.m

Fire performance

Classification / standard	Recorded result
EN 13501-1	B-s3, d0

Food-contact / hygiene

- Smooth, impervious surface intended for hygienic internal environments.
- Suitable for hygienic internal environments where cleanability and an impervious wall finish are required.
- High-gloss face should be protected from scratching during transport, fabrication and installation.

DESIGN, INSTALLATION & HANDOVER CRITERIA

Substrate and environmental requirements

- Substrate to be sound, flat, dry, clean and free from grease, dust and other contamination.
- Finished substrate should be straight to within approximately 3mm over a 2m straightedge unless the project specification requires tighter tolerances.
- Suitable substrates may include fair-faced brick/blockwork, plaster/render, WBP plywood, securely bonded ceramic tiles and sound painted surfaces subject to adhesion testing.
- Minimum recommended installation-area temperature: 14°C. Store sheets flat in the installation area for approximately 24 hours before fitting.
- Confirm moisture condition, porosity and any required primer or sealer before bonding.

Jointing, expansion and complete-system details

- Allow approximately 3mm expansion clearance at inflexible supports including door frames, ceilings and skirting details.
- For hot-welded joints, allow the specified welding gap and use compatible colour-matched weld rod; trial-weld before commencing production work.
- Internal and external corners may be completed using compatible PVC profiles or thermoformed sheet details where appropriate.
- Bond sheets using IMPACTPUR two-part PU cladding adhesive or another approved compatible system in accordance with the product TDS and SDS.
- Retain the protective film during installation and remove only once installation work is complete and the area is ready for final cleaning.

Cleaning and maintenance

- Routine cleaning: soft cloth with mild soap/detergent and warm water. Do not use abrasive pads or abrasive powders on the gloss face.
- Do not exceed 60°C cleaning-solution temperature.
- Test strong disinfectants, degreasers or specialist chemicals on an inconspicuous area before widespread use.
- Do not scrape the face with metal tools; remove cured adhesive or sealant using approved methods that will not mark the surface.