

Altro Whiterock™ hygienic wall systems

Data sheet

Altro Whiterock Digiclad™

July 2018

Altro Whiterock PVCu sheet printed with uv cured ink for areas requiring bespoke decorative design, logos and signage.

Description

Extruded semi-rigid PVCu sheet.

Colour:	Can be printed onto white, or from sheets from the Altro Whiterock Satins or Altro Whiterock Chameleon range
Surface finish:	Satin from the Altro Whiterock Satins range or Gloss from the Altro Whiterock Chameleon range
Thickness:	2.5mm
Size:	2500 x 1250mm 3000 x 1220mm sheets can be CNC routed and cut to suit setting out and jointing configurations
Weight:	3.6 kg/m ²
Maximum service temp:	60°C

Altro Whiterock Digiclad extruded sheets can be hardcoated with a gloss or anti-reflective coating for added scratch resistance. This will give additional, but limited resistance to some forms of graffiti. (Hardcoating is optional and being a liquid coating there is a risk of inclusions appearing in the surface finish). The product is supplied to site with protective film or bubble wrap to its face.

It is ideal for applications requiring a hygienic easy-to-clean, almost maintenance free wall finish, which conforms to UK hygiene requirements.

Fixing

The sheets can be fixed directly to most dry substrates depending on their surface suitability, using one of the following methods:

1. AltroFix™ W139 all over adhesive
2. AltroFix™ W157 all over adhesive (substrate surfaces to be of a high standard and porous)

Cutting

Cutting to be carried out using a fine tooth circular saw with TCT cutting blades and pressure guide, fine tooth blade jigsaw, a fine tooth handsaw, a high speed TCT router.

Jointing

Can be jointed in any of the following ways.

Contact Altro for relevant drawings

1. Printed matching high impact 2 part 'H' section joint strips
2. Silicone joint 3-4mm wide
3. Hot welded – ask for details
4. Butt Joining

Internal / external corners

Altro Whiterock Digiclad is normally thermoformed on site, so that window and door reveals are neatly clad without a corner trim.

Note: the corners cannot be thermoformed if the gloss hard coating has been applied. In these circumstances, the internal corners can be scribed and butted into the corner and sealed with silicone sealant. The external corners will be fitted using an unprinted 20 x 20 or 30 x 30 pvc angle colour co-ordinated to match the base sheet or a brushed stainless steel angle.

Cleaning

The product can be cleaned using a soft cloth and suitable diluted mild detergent.

Do not use abrasive pads or wire wool

Do not clean above 60°C

Cleaning cards are available on request

Chemical resistance

Resistant to a wide range of chemicals, specific details on request.

Availability

Made to order with 21 day lead time – please see the Altro Whiterock Digiclad brochure.

Storage & conditioning (on-site)

Sheets should be stored flat, fully supported and left for 24 hours to attain the ambient room temperature prior to installation (min 14°C).

Limitations of use

Altro Whiterock Digiclad has a maximum working temperature of 60°C.

Typical applications

- reception / leisure / retail areas
- canteens / serveries / vending areas
- recovery / wards / intensive care areas
- doctors / dentists / veterinary practices
- shower / toilet / changing room areas
- corridors / classrooms / swimming pools

Our Technical Services Department is available for advice on 01462 707600.

Technical data – Altro Digiclad with Altro Whiterock Satins

Property	Standard	Value
Surface finish		Satin
Thickness		2.5 mm
Size		2500 mm x 1220 mm
3000 mm x 1220 mm		
Weight		3600 g/m ²
Density	ISO 1183	1.44 g/cm ³
Maximum service temperature		60°C
Hardness (Shore D)	ISO 868	76
Fire resistance	EN 13501-1 BS 476 pt 6 BS 476 pt 7	B- s3, d0 Class 0 (when fixed to a non-combustible substrate) Class 1
Notched Impact resistance	ISO 179/1ea	9.5 KJ/m ²
Impact resistance	ISO 179/1eU	+20°C without breakage 0°C without breakage -20°C without breakage
Flexural strength	ISO 178	70 MPa
Tensile strength	ISO 527	52 MPa
E-modulus of elasticity	ISO 527	2950 MPa
Compressive strength	DIN 53421	68 N/mm ²
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 (MVTR)	ASTM E96	≤ 0.12g/m ² /24hrs
Water vapour resistivity	ASTM E96	3.82 x 10 ⁵ GN.S/Kg.m

Technical data - Altro Digiclad with Altro Whiterock Chameleon

Property	Standard	Value
Surface finish		Gloss
Thickness		2.5 mm
Size		2500 mm x 1220 mm
3000 mm x 1220 mm		
Weight		3500 g/m ²
Density	ISO 1183	1.41 g/cm ³
Maximum service temperature		60°C
Hardness (Shore D)	ISO 868	80
Fire resistance	EN 13501-1	B- s3, d0
	BS 476 pt 6	Class 0 (when fixed to a non-combustible substrate)
	BS 476 pt 7	Class 1
Notched Impact resistance	ISO 179/1ea	2.9 KJ/m ²
Impact resistance	ISO 179/1eU	+20°C without breakage
		0°C without breakage
		-20°C without breakage
Flexural strength	ISO 178	94 MPa
Tensile strength	ISO 527	59 MPa
E-modulus of elasticity	ISO 527	3700 MPa
Compressive strength	DIN 53421	70 N/mm ²
Vicat softening point VST/B	ISO 306	80°C
Expansion coefficient	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/m ² °C
Moisture Vapour Transmission rate (MVTR)	ASTM E96	≤ 0.12g/m ² /24hrs
Water vapour resistivity	ASTM E96	3.82 x 10 ⁵ GN.S/Kg.m