

Altro Whiterock™ hygienic wall and ceiling systems

Data sheet

'EU' grade - extruded W160/161,
Altro Whiterock Chameleon™

A high gloss, solid colour sheet for areas requiring a decorative appearance. Also suitable where sheet may come into contact with food.

Description

Extruded semi-rigid PVCu sheet.

Colour:	16 colours
Surface finish:	Gloss
Thickness:	2.5mm
Size:	2500 x 1220mm (W160) 3000 x 1220mm (W161)
Weight:	3.5 kg per m ²
Maximum service temp:	60°C

Altro Whiterock Chameleon W160/161 PVCu extruded sheet is supplied with a protective film on its face, which can be left in place until the room, is ready for use.

This also helps to protect the surface from dust while other trades are in the area. 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 its surface suitability, using one of the following methods:

1. AltroFix™ W139 fully bonded system
2. AltroFix™ W157 fully bonded system

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

- see relevant detailed drawings

1. A high impact extruded PVCu 'H' joint trim (available in two part or single part for use in secure units), incorporating a watertight seal at the mouth of the joint, which is unique to Altro.
2. Hot welded - colour coordinated.
3. Silicone joint - colour coordinated.*

* Single part trim and hot welded joint specified for secure units.

Internal / external corners

- see relevant detailed drawings,

Altro Whiterock is normally thermoformed on-site, internal and external corners including window and door reveals are neatly clad, omitting the need for corner trims. However, profiles are available for these junctions if the need arises. Vulnerable external corners are usually over-clad with stainless steel corner protectors, to a height of 1200mm.

Cleaning

Regular cleaning using a soft cloth and a suitably diluted mild detergent is all that is normally required.

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

Ex-stock.

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 Chameleon W160/161 has a maximum working temperature of 60°C. For temperatures above this use stainless steel. Stainless steel must be used for all open flame areas (available cut to size) and must be extended to min 300mm past heat source. If a layout showing the position of equipment can be supplied, we will provide specific advice as to the best combination of materials to use.

Technical data

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	1.39 g/m ³
Maximum service temperature		60°C
Hardness (Shore D)	ISO 868	85
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	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	105 MPa
Tensile strength	ISO 527	69.2 MPa
E-modulus of elasticity	ISO 527	3870 MPa
Compressive strength	DIN 53454	70 N/mm ²
Vicat softening point VST/B	ISO 306	80°C
Expansion coefficient at 20°C after 1 h storage at 90°C	DIN 53752	7 x10 ⁻⁵ (10 ⁴ /K)
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 105GN.S/Kg.m

Typical applications

- receptions / 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.

For further information or technical advice

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