



altro

Altro Whiterock™ hygienic wall and ceiling systems

MAY 2006



Data sheet
'EU' grade - extruded W140/141,
Altro Whiterock Illusions

A patterned extruded base sheet for areas requiring a decorative appearance. Also suitable where sheet may come into contact with food.

Description

Extruded semi-rigid PVCu sheet.

Colour:	24 patterns
Ranges:	Marble, Leaf, Cloud, Granite
Surface finish:	Satin
Thickness:	2.5mm
Size:	2500 x 1220mm (W140) 3000 x 1220mm (W141)
Weight:	3.5 kg per m ²
Maximum service temp:	60°C

Altro Whiterock W140/141 foil faced 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 all over adhesive
2. AltroFix® W173 all over adhesive
3. AltroFix® W157 all over adhesive

Cutting

A jigsaw is the best method, however a fine toothed hand saw can also be used.

Jointing

- see relevant detailed drawings

1. A high impact colour co-ordinating extruded PVCu 'H' joint trim (available in two part or single part profiles), incorporating a watertight seal at the mouth of the joint, which is unique to Altro Whiterock.
2. Silicone joint 3-4mm wide.

Note: Altro Whiterock Illusion panels cannot be hot welded.

Internal/external corners

Altro Whiterock is normally thermoformed on-site, so that window and door reveals are neatly clad without an edge joint. However, pre-formed corners are available for the self-installer to cope with these details. Vulnerable external corners are usually over-clad with stainless steel corner protectors, to a height of 1200mm, other sizes available.

Cleaning

Regular cleaning using a soft cloth and a suitably diluted mild detergent is all that is normally required. Stubborn marks can be removed with Altro Cleaner A859 or non-abrasive domestic type cream bath cleaner.

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

10 days - (Limited stocks).

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 W140/141 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). 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

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 01502 561364.

Technical data

Property	DIN	Values
Density (g/cm ³)	ISO 1183	1.39
E-modulus of elasticity (Mpa)	ISO 527	3550
Impact resistance (KJ/m ²)	ISO 179/1eU	
+20°C		Without rupture
0°C		Without rupture
-20°C		Without rupture
Flexural strength (Mpa)	ISO 178	79.8
Tensile strength (Mpa)	ISO 527	48
Shore-hardness D	ISO 868	79
Surface resistance ROE (Ω)	DIN IEC 60 167	2.00E +14
Volume Resistance RD (Ω)	DIN IEC 60 093	6.90E +13
Dielectric strength (kV/mm)	DIN IEC 243	16.8
Dielectric constant	53483	3.2
Dielectric loss index	53483	0.02
Thermal conductivity - 'K Value' (W/mK)	52612	0.16
"U" value (bonded to 100mm block wall (W/m ² °C)	52612	1.8
Expansion coefficient at 20°C after 1 h storage at 90°C (10 ⁻⁴ /K)	53752	7.10 ⁻⁵
Compressive strength (N/mm ²)	53454	70
Vicat softening point VST/B (°C)	ISO 306	80
Heat distortion temperature (°C)	ISO 75-2	60
Water absorption (%)	ISO 62	0.09
Moisture vapour transmission rate (MVTR)	ASTME96	0.120 g/m ² /24hrs
Water vapour resistivity	ASTME96	3.82 x 10 ⁵ GN.S/Kg.m
Light reflectance values (LRV)	D65 artificial daylight	90-95 (ask for details)
Flammability		
Surface spread of flame	BS 476 Part 7 1987	Class 1
Fire propagation	BS 476 Part 6 1989	Class 0*

(*when fixed to a non-combustible substrate)

for further information or technical advice

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