

Altro Whiterock™ hygienic wall and ceiling systems

Data sheet

'EU' grade - extruded W103/104,
Altro Whiterock Standard White

Economical standard grade for general purpose use. Also suitable where sheet may come into contact with food.

Description

Extruded semi-rigid PVCu sheet.

Colour:	White
Surface finish:	Satin
Thickness:	2.5mm
Size:	2500 x 1220mm (W103) 3000 x 1220mm (W104)
Weight:	3.5 kg per m ²
Maximum service temp:	60°C

Altro Whiterock W103/104 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 and European hygiene requirements.

This is the most economical standard grade which can be used for the majority of installations.

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. Colour coordinated Altro Whiterock FlexiJoint™. (Not for use in secure units).
3. Hot welded joint colour coordinated w/rod.
4. Silicone sealant 3mm joint.
5. A powder coated aluminium "H" joint used for extra impact or heat resistance.

Internal / external corners

- see relevant detailed drawings, available on the Altro Website; www.altro.com

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. Stubborn marks can be removed with Altro Cleaner A859 or nonabrasive 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

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 W103/104 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) must be extended to min 300m past heatsource. 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		Satin
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	79
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	7.1 KJ/m ²
Impact resistance	ISO 179/1eU	+20°C without breakage 0°C without breakage -20°C without breakage
Flexural strength	ISO 178	80 MPa
Tensile strength	ISO 527	52 MPa
E-modulus of elasticity	ISO 527	3550 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 10 ⁵ GN.S/Kg.m
Light reflectance values (LRV)	D65 artificial daylight	89
Surface resistance ROE	IEC 60 167	2.00E +14 Ω
Volume Resistance RD	IEC 60 093	6.90E +13 Ω
Dielectric strength	IEC 60243	16.8 KV/mm
Dielectric constant	DIN 53483	3.2
Dielectric loss index	DIN 53483	0.02

For further information or technical advice

tel: 01462 707600

email: enquiries@altro.com or www.altro.com

Typical applications

- commercial kitchens
- laboratories
- pharmaceutical areas
- food manufacturing areas
- shower / toilet / changing room areas

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