

# Altro Whiterock™ hygienic wall systems

Data sheet

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

March 2021

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 (W136)<br>3000 x 1220mm (W137) |
| Weight:               | 3.5 kg/m <sup>2</sup>                        |
| 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.

Only use diluted detergents or cleaning products which are non-abrasive to avoid affecting the high gloss finish.

**Do not use abrasive pads or wire wool.**

**Do not clean above 60°C.**

## 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 300 mm 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.

## 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

## 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 <sup>2</sup>   |
| Density                                  | ISO 1183                                 | 1.41 g/cm <sup>3</sup>  |
| Maximum service temperature              |  | 60°C  |
| Hardness (Shore D)                       | ISO 868                                  | 80  |
| Fire resistance                          | EN 13501-1<br>BS 476 pt 6<br>BS 476 pt 7 | B- s3, d0<br>Class 0 (when fixed to a non-combustible substrate)<br>Class 1 |
| Notched Impact resistance                | ISO 179/1ea                              | 2.9 KJ/m <sup>2</sup>   |
| Impact resistance                        | ISO 179/1eU                              | +20°C without breakage<br>0°C without breakage<br>-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 <sup>2</sup>  |
| 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 <sup>2</sup> °C   |
| Moisture Vapour Transmission rate (MVTR) | ASTM E96                                 | ≤ 0.12g/m <sup>2</sup> /24hrs   |
| Water vapour resistivity                 | ASTM E96                                 | 3.82 x 10 <sup>5</sup> GN.S/Kg.m  |