

Altro Fortis™ wall protection system

Data sheet

Wall protection sheet, Altro Fortis Titanium™

July 2018

Durable protection for walls, doors and corners. Suitable for busy public areas.

Description

Extruded semi-rigid PVCu sheet.

Colour:	various
Surface finish:	textured
Thickness:	2.5mm
Size:	3000 x 1220mm
Weight:	3.6 kg/m ²
Maximum service temp:	60°C

Altro Fortis Titanium 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 durable easy-to-clean, almost maintenance free wall finish.

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™ W157 all over adhesive

Cutting

A jigsaw is the best method, however a fine toothed hand saw or circular saw with pressure guide can also be used.

Jointing / finishing

- see relevant detailed drawings

1. A high impact 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.
2. Colour co-ordinated Altro FlexiJoint™.
3. Hot welded joint - ask for details.
4. Altro sanitary sealant 3mm joint.
5. Altro Flexitrim™ a bevelled top-edge trim for dado height.

Internal / external corners

- see relevant detailed drawings

Altro Fortis Titanium is normally thermoformed on-site, so that window and door reveals are neatly clad without an edge joint. However, profiles are available for the selfinstaller to cope with these details. Vulnerable external corners can be over-clad with Altro Fortis corner protection or stainless steel corner protectors.

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

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 Fortis Titanium 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

- corridors
- classrooms
- circulation areas

Technical data

Property	Standard	Value
Surface finish		Textured
Thickness		2.5 mm
Size		1220 x 3000 mm
Weight		3600 g/m ²
Density	ISO 1183	1.44 g/m ³
Maximum service temperature		60 °C
Hardness (Shore D)	ISO 868	79
Fire resistance	EN 13501-1	B- s3, d0
Notched Impact resistance	ISO 179/1ea	9.5 KJ/m ²
Gardner impact resistance	ASTM D4226	131 in-lb
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