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Altro Whiterock Quickclad™ hygienic wall and ceiling systems

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Data sheet

Rigid foam PVC sheet W171/172

Altro Whiterock Quickclad is a demountable partition wall system for areas where other wall finishes cannot be bonded directly to the substrate. It is ideal for use where the substrate is damp or uneven. It is ideally suited to accommodate access to cables and pipes etc.

Description

Format:	Extruded, tough, durable, lightweight rigid foam PVC sheets
Colour:	White
Surface finish:	Satin
Thickness:	10mm
Dimension:	2500 x 1250mm (W171) 3000 x 1250mm (W172)
Weight:	Average 5.7kg/m ² based on average SI 0.57g/m ³
Max service temp	60°C

Altro Whiterock Quickclad lightweight rigid foam sheet is supplied with a protective film to the face, which can be left in place until the room is ready for use.

This also helps 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, and where there is a need for the surface finish to stand off the existing substrate, eg to accommodate services, poor quality or damp substrates, listed buildings, or to non load bearing partitions.

Fixing

Rigid sheets are fixed to a galvanized steel stud/framework system, consisting of head and sill channels (Ref: AMF6 or AGL8) and vertical studs (Ref: PMF5 or AGL1) fixed using wafer head screws (Ref: A611 or A611/25). Framework fixed direct to substrate packing out plumb or increasing void width using set off brackets (Ref: AGL9). (See installation guide for full details).

Cutting

A portable or bench mounted circular saw with TCT blade or a jig saw with a course cutting blade for best results. A fine toothed handsaw can also be used.

Jointing

By means of a 2 part high impact PVC cover strip incorporating a neoprene co-extruded seal snapping into an aluminium backing, mechanically fixed to the galvanized metal stud/framework.

Internal and external corners

Altro Whiterock Quickclad internal and external corners are formed on site using routing and cold forming techniques.

Internal corners are formed by grooving one panel and bonding to the adjacent panel using PVC adhesive (Ref: AP2020).

External corners are formed by routing a 'V' groove to the back of sheet folding, then bonding with adhesive (Ref: AP2020).

Window and door reveals are neatly formed without recourse to additional trims.

See the Altro Whiterock Quickclad Installation Guide for details.

Vulnerable external corners are usually overlaid 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 (Ref: 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

Resistance 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).

Fire resistance

Achieves Class 1 when tested to BS 476: Part 7, 1987.

Fire propagation Class 0 to BS 476 Part 6 1989

Limitations of use

Altro Whiterock Quickclad has a maximum working temperature of 60°C. For temperatures contact Technical Services on 01502 561364.

Typical applications

- Commercial kitchens
- Laboratories
- Pharmaceutical areas
- Food manufacturing areas
- Listed buildings

Installation

Installation instructions are available from Altro. Contact Altro Technical Services on 01462 707600.

System 1

This system is for use where the void between the substrate and the back face of the panel can be adjusted using packers/shims placed behind the vertical galvanised metal supports, (Ref: PMF5) which are in turn fixed to head and floor channels, (Ref: AMF6) to accommodate substrate variations in the vertical and horizontal plains. This system will accommodate a void from a minimum of 30mm, up to a maximum of 49mm.

System 2

This system is for use where the void between the substrate and the back face of the panel can be adjusted using liner brackets, (Ref: AGL9) attached to vertical galvanised metal supports, (Ref: AGL1). This system provides strength, rigidity and support enabling a maximum, 200mm void to be attained.

Note: Partition walls may also be constructed to allow both faces to be lined by utilising a generic jumbo stud system.

Property	Units	Average Value	Standard
Specific gravity	gcm ³	0.57	DIN EN ISO 1183
E_modulus	Mpa	1050	ISO 527 (50mm/min)
Flexural strength	Mpa	21	ISO 178 (2mm/min)
Impact resistance (Charpy)	KJ/m ²	20	ISO 179/1eU
Compressive strength	N/mm ²	6	DIN 53421
Vicat softening point	°C	73-76	ISO 306 (B50)
Shore-hardness D	-	66-70	ISO 868
Thermal conductivity	W/M°C	0.063	DIN 52612
Coefficient of thermal expansion	10 ⁴ /K	6.10 ⁻⁵	DIN 53752
Water absorption	%	4.9	ISO 62 (after 216h)

for further information or technical advice

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e-mail enquiries@altro.com or explore www.altro.com