

FILON®



C/SfB	Rn
July 2006	

FILON Multiclad F

Installation Guide for GRP Panels

Please Read These Instructions Carefully Before Installation

Storage and Inspection

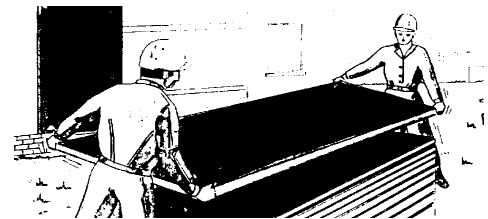
Inspect all panels and report any defects immediately.

FILON Multiclad F panels should be stored on a clean flat level surface (concrete floor), to avoid any waviness developing. Do NOT store panels on edge.

Precondition panels in proposed working environment for at least 72 hours before installation.

Do not install panels which are in an unacceptable condition. Filon Products Ltd., will bear no responsibility for the costs of removal and refitting of any unacceptable panels.

Fig.1



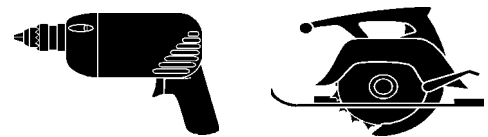
Cutting and Drilling

When cutting FILON Multiclad F use a power saw operating at medium speed with a 40/60 diameter diamond grit blade.

Drill with standard metal bits.

Sheets can be notched using standard metal snips.

Fig.2



Industrial Health and Safety Information

During such operations dust can be generated. The concentration of dust should be kept as low as is reasonably practicable and certainly below the Occupational Exposure Limits (10 mg/m³ total inhalable dust and 4 mg/m³ respirable dust - 8 hour TWA values). For work indoors or in confined spaces, adequate ventilation should be provided. For extensive operations dust extraction should be used.

Operators should wear a suitable dust mask and goggles.

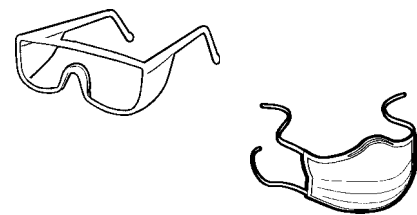
In some cases GRP dust can cause slight transient irritation. Should effects be prolonged or any signs of a rash occur, obtain medical advice.

All exposed skin must be thoroughly washed with soap and water. Any eye contamination must be washed out with copious amounts of pure water.

Do not smoke in or near stores or working areas.

Scrap and waste sheets should only be disposed of at approved land fill sites.

Fig.3



Preparing Walls

Walls must be dry and free from dirt, grease and dust. Remove any high spots, nails, etc., and fill in any low spots. If walls are badly aligned or have pipes which cannot be removed, fix timber battens to wall to obtain a level surface.

Panels Fitting

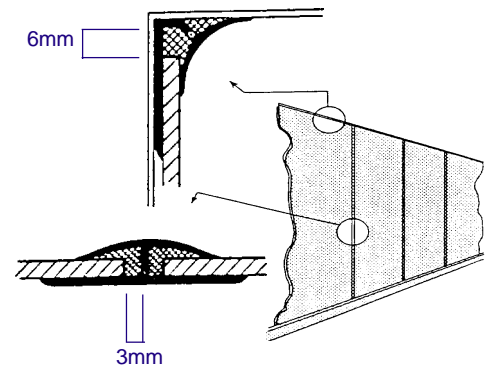
FILON Multiclad F can be fixed to any solid wall surface, brick, concrete, plaster or concrete block. If walls have been tiled, providing tiles are securely fixed, FILON Multiclad F can be directly overlaid.

When positioning panel onto wall allow 6mm spaces at ceiling and floor levels. A 3mm gap should be allowed between each panel and Division Bar. This provides for normal expansion and contraction of the panels, see **Fig 4**.

Around pipes and electrical fittings, allow not less than 3mm clearance. Gaps can be filled with sealant to provide protective cover and complete finish. Cut and prefit each panel before securing in place.

Panels can also be fitted without a Division Bar. A 3mm gap between each panel should be allowed and sealed with a recommended sealant. This method seals between panels and allows for normal expansion and contraction.

Fig.4



Fixing Panels - Panel Rivets

Mechanical fixing simplifies installation and can reduce labour time. FILON Multiclad F panel rivets can be supplied in varying sizes to suit applications. This type of fixing is advantageous where damp conditions would prevent the curing of adhesives.

The panel rivets have been specially developed and are ideally suited to the fixing of FILON Multiclad F panels. The rivets are nylon, simple to use and will not rust.

FILON Multiclad F panels should be affixed to walls as shown in **Fig 5**. Stagger the panel rivets on opposing sheet edges and corners to assist in providing a tight flat surface.

It is recommended that rivet holes are drilled into the panel at 380mm centres, as shown in **Fig.5**, equi-distant from panel edges, **and at least 2mm oversize**.

To achieve correct alignment, mark drill holes on brickwork through panel holes ready for drilling.

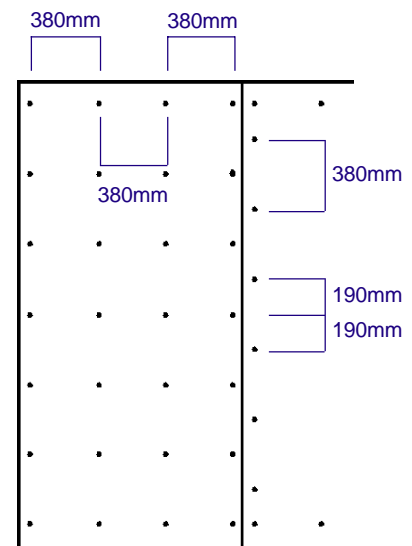
To obtain flatness, secure panel at the top and work to the bottom, or start at centre and work outwards. Do NOT secure panel from both ends working inwards towards centre or overtighten panel rivets, as this will cause panel to buckle.

Fix top row using panel rivets to suit. The panel should hang freely allowing the remaining holes to be drilled into wall. Fasten the panel top to the bottom leaving the leading edge loose to slot Division Bar or Corner Piece onto panel.

Complete fastening of leading edge and repeat process for each panel.

Fit FILON Multiclad F fittings as required in ceiling, wall and floor corners when fixing panels. Ensure fittings are mitred where they butt against other FILON Multiclad F fittings in corners to provide quality finish.

Fig.5



Fixing Panels - Adhesives (Interior Use Only)

To improve flatness and reduce movement, a good quality adhesive may be used in conjunction with mechanical fixing.

The use of adhesive can also reduce the number of panel rivets by increasing vertical spacing of rows to 570mm, thereby eliminating one row of panel rivets.

When using adhesive, ensure that surface of walls are free of dirt, dust, grease, etc., and are dry. Apply around outer edges on the back of panel in vertical lines as shown in **Fig 6**, spotting between lines to improve bonding.

Alternatively to ensure full contact with surface, apply 100% coverage to reverse of sheet as shown in **Fig 7**.

Note : Do NOT apply adhesive horizontally across panel as falling brickdust may cause it not to adhere to wall.

Filon Products can supply an adhesive suitable for fastening FILON Multiclad F panels to most surfaces, which does not retain odours in food storage areas. It should NOT be used for bonding to polystyrene.

Please ensure manufacturers instructions are followed when using adhesives.

Fig.6

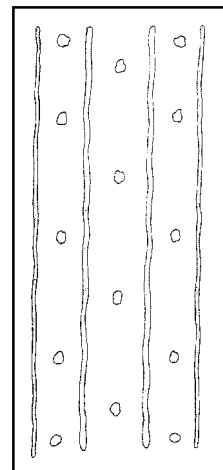
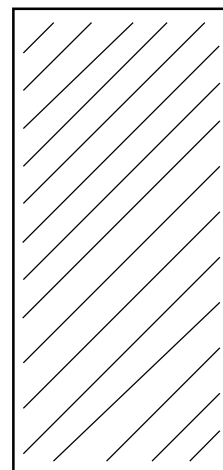


Fig.7



Sealing

To aid moisture proofing when fixing FILON Multiclad F panels a good quality sealant should be used.

Filon Products can supply a silicone sealant that is approved for use in food preparation areas by The Food Research Association. Please follow the manufacturers instructions when using sealant.

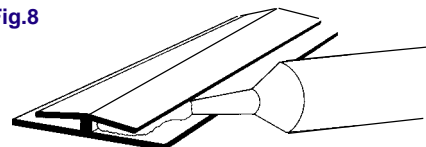
Holes drilled in brickwork should be filled with sealant prior to inserting panel rivets.

When installing panels apply sealant to Division Bar slots, as shown in **Fig.8**, and push into place. To allow for expansion withdraw slightly by 3mm (see **Fig.4**).

All FILON Multiclad F plastic fittings should be sealed in this way to ensure effective proofing of joints and holes.

To complete the proofing, apply sealant to all edges of the panel. It is recommended in very wet areas, that an extra bead of sealant is applied behind panel edges to further aid moisture proofing.

Fig.8



Cleaning

During installation tooling may cause marks to appear on panels and fittings. These marks can be easily removed by using a liquid metal polish like 'Brasso'.

During use it is recommended that FILON Multiclad F be cleaned on a regular basis to prevent build-up of soiling and retain its appearance. The product can be cleaned by steam or chemical methods in general use, or simply hosed down with water.

Technical Services

Technical and advisory services are available from Area Technical Sales Managers or Filon Technical Services Department.

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