

FILON®



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FILON Application Detail

Translucent GRP Sheeting 32/1000 Profile for Complete Roof Covering

Introduction

FILON sheets are manufactured from Glass Reinforced Polyester (GRP) and are ideal for canopies, carports, covered ways, loading bays, etc. (see Table 3 below)

They are robust, shatter resistant, easily handled and fixed. A UV resistant **Polyester** film is applied to the weather surface during manufacture to provide a long, durable, trouble free life usually well in excess of 25 years.

FILON sheets are unique to all other GRP translucent sheets in that they incorporate special light diffusing additives which scatter light passing through. This ensures good light distribution and reduces glare and excessive shadow.

Product Range and Performance

Sheet Weight

1.83kg/m², 2.44kg/m², 3.06kg/m², 3.66kg/m² and FILON SupasaFe.

Light Transmission

All weights 90%, except FILON SupasaFe 85%

Tinted and coloured sheets are available subject to quotation.

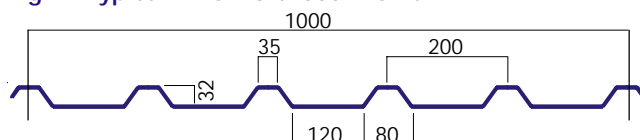
Fire

Table 1: Grade and Fire Performance

FILON Grade	Part 3	BS 476 Part 6	Part 7
101	AA	(I) < 12 ¹ (i) < 6	Class 1
104	AA	(I) < 20	Class 1
300	AB	–	Class 3

¹ By definition under UK Building Regulations, FILON Grade 101 sheets which have an index of performance of less than 12 and 6 when tested under BS 476 : Part 6, are designated **Class 0**.

Fig.1 : Typical FILON 32/1000 Profile



1 Example shown is Filon Code 221C.

Support Centres

To meet the structural requirements on buildings not exceeding 10m height to eaves, with normal exposure, Table 2 lists the recommended support centres for alternative weights.

For buildings in excess of 10m height to eaves or sited in coastal or other exposed locations, it may be necessary to reduce purlin centres or supply heavier (thicker) weight sheets. Discuss specific details with Filon Technical Services Department.

Table 2: Guide to Maximum Centres of Supports

Overall Depth of Corrugation (mm)	Sheet Weight (kg/m ²)		
	1.83	2.44	FILON SupasaFe
32mm	1.8m	2.2m	2.9m

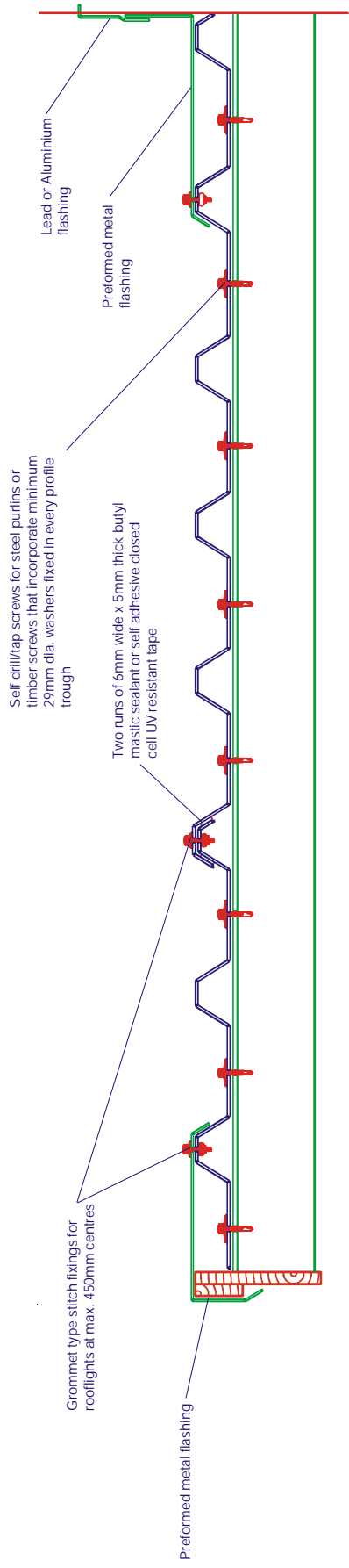
Building Regulations

Table 3: Minimum Grade of FILON Sheet Permitted

Building	Grade
A balcony, open carport, covered way, or loading bay, irrespective of size, which has one of its longest sides wholly or permanently open.	300
A garage, conservatory or out building, not exceeding 40m ² floor area.	300
A detached single storey building only used for storing plant, machinery or livestock, or for agriculture.	300
On any other building.	104
Where the structure may be used as a fire escape route, consult Filon Technical Services Department for alternative recommendations.	

Fixing and Sealing

The detailed drawings on the following pages illustrate fixing, sealing and flashing recommendations

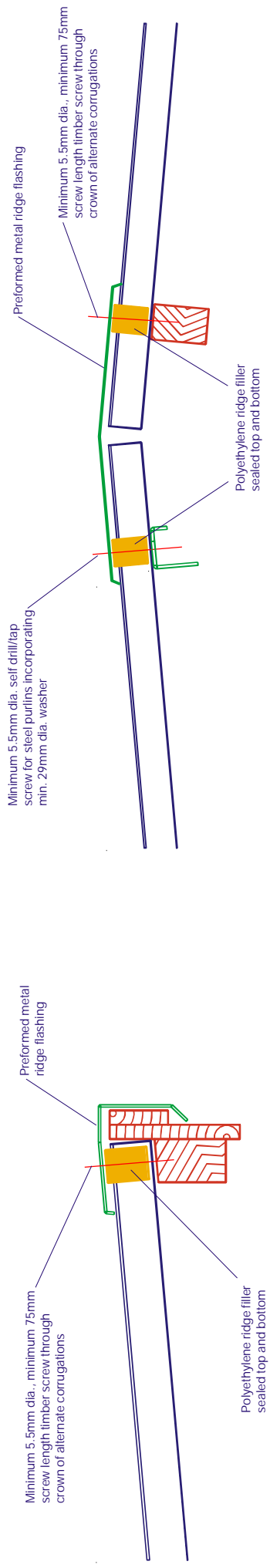
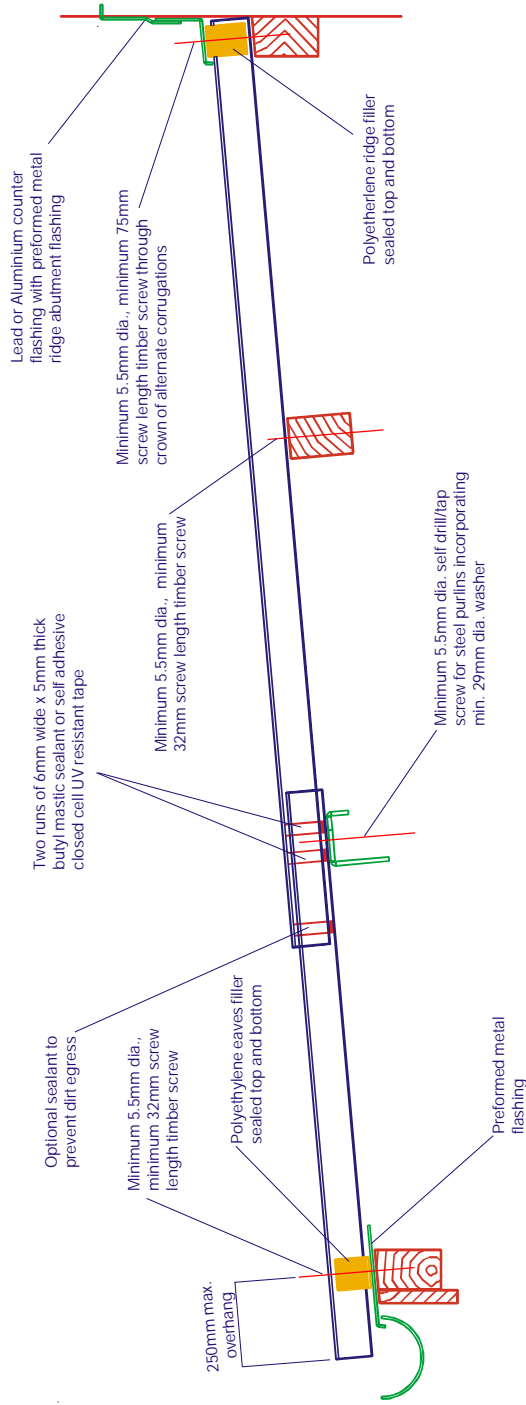


General Notes

All preformed metal flashings to be fabricated from 1.2mm Aluminium or 20 Gauge Protected Steel sheet.

On low pitched roofs and exposed sites, seal polyethylene ridge and eaves fillers with gun grade mastic.

Minimum recommend roof pitch 5°



Supply

Sheets are generally manufactured to order and can be obtained through a nationwide network of distributors and major roofing contractors.

Siteworks

Transport, Handling and Storage

Sheets are generally supplied loose. Store sheets on flat clean level battens located at 1.5m centres. Secure against theft and from being blown away.

Continuously protect sheets stored in open with waterproof opaque covers, otherwise even on relatively dull days sheets stacks will act as a **solar battery** boiling any entrapped moisture and discolouring the sheets. Inspect regularly to ensure that moisture has not penetrated the stack.

When carrying long lengths, carry several sheets nested together with a man supporting the sheets every 3m to prevent breakage. Single sheets can be carried by rolling them across their width to form a cylinder and roping every 1.5m intervals.

Cut FILON sheets with a fine tooth hacksaw. Best results are obtained if saw is held at a shallow oblique angle. When cutting with power tools use a 40/60 grit diamond blade operating at medium speed. Operators should wear a suitable dust mask and goggles.

Notch sheets using standard metal working snips. Drill with standard metal bits. Holes must not be punched.

Health and Safety

ALL rooflights must be considered fragile until they are correctly fixed as recommended.

Roof works should be completed in accordance with the recommendations published in the Health and Safety Executive Guidance Note HS (G) 33 "Safety in Roof Work".

Maintenance

Sheets should be regularly cleaned with warm water and detergents to maintain light transmissions.

After 15 to 20 years exposure, painting clean dry rooflights with a clear air drying lacquer will extend the life of the surface coatings.

FILON sheets will remain structurally sound for at least 30 years.

Please refer to the "Advisory Committee for Roofwork" publication ACR[CP]002:2005 "Guidance Note for Safe Working on Fragile Roofs" when carrying out maintenance work.

Technical Services

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

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