

# FILON®



CI/SfB	(37)	Xn	8
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# FILON **Filite**

## Double Skin Box Rooflights

### Introduction

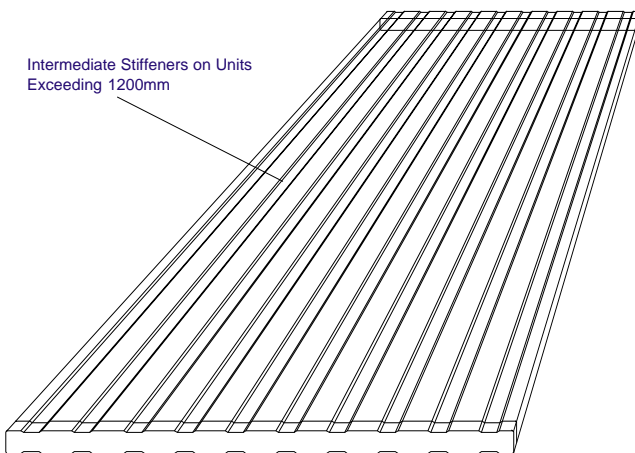
FILON Filites are factory assembled double-skin translucent panels manufactured from re-entrant FILON GRP sheets. Available in standard 900, 1000 and 1200mm widths and depths of 30 and 40mm; they are suitable for the majority of applications for use in suspended ceilings, over and under purlin linings.

FILON Filites provide diffused lighting without glare to provide a good internal working environment.

Unaffected by temperature changes from -20°C to 100°C, they will not become brittle at low temperatures; they will not soften, discolour or warp at high temperatures.

As illustrated in **Fig. 1.**, specially shaped re-entrant upstands, improves strength, rigidity and provides maximum bonding surfaces between top and bottom panels.

**Fig. 1. Filite Construction**



### Product Range

#### Dimensions

- Box Width:** 1200mm maximum
- Box Length:** 4m maximum
- Box Depth:** 30 and 40mm
- Box Weight:** 3kg/m<sup>2</sup> approximate

Where larger length units or large purlin span occur consult Filon Technical Services Department for recommendations.

### Fire Grade

FILON sheets for roofing are offered in three fire retardant grades. **Table 1** lists these grades and their fire performance when tested under BS 476 Fire Tests.

**Table 1: Grade and Fire Performance**

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

<sup>1</sup> 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**.

FILON Filites are generally manufactured with Filon Grade 300 over Filon Grade 104. Alternative combinations are available for certain applications.

For technical advice on which fire grade should be used in specific applications please refer to Filon Technical Services Department.

### Performance

**Table 2: Physical Properties - Typical Values**

**Thermal Transmission (U) :** Value for design purposes.  
Double Skin: 3.0W/m<sup>2</sup>K

**Light Transmission:** Percentage natural daylight by direct contact photo cell.  
Double Skin 81%

**Light Diffusion:** Gradient constant Table 1: BS 4145  
Classification 3 - Moderately Diffusing

#### Limitations

In buildings where high levels of humidity or aggressive atmospheres are likely, consult Filon Technical Services Department for recommendations.

#### Supports

Panels are designed to be supported by roof purlins or suspended "T" section ceiling system.

## Supply

FILON Filites are manufactured to order and can be obtained through a nation wide network of distributors and major roofing contractors.

## Siteworks

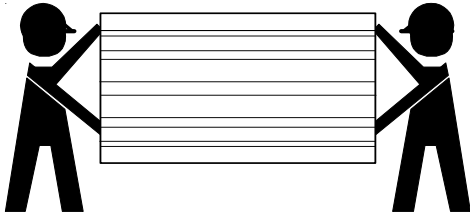
### Transport, Handling and Storage

Store FILON Filites on flat, clean, level battens not exceeding 500mm centres. Stacks must not exceed 20 units. They should be neatly stacked to ensure even weight distribution.

Secure against theft and from blowing away.

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

When carrying FILON Filites care must be taken not to twist them. They must be carried by at least two people as illustrated.



## Technical Services

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

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## Filon Products Limited

Unit 3 Ring Road Zone 2 Burntwood Business Park  
Burntwood Staffordshire England WS7 3JQ

Tel 01543-687-300 Fax 01543-687-303

e-mail : sales@filon.co.uk website : www.filon.co.uk