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# Profile 6 - Profiled Roofing Sheets



Rust, Rot and Corrosion Free

Advantages

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- UK Manufactured
- 5° minimum pitch
- Does not rust or rot
- Excellent acoustic and thermal insulation
- Fibre cement is a 100% recyclable building material
- [Watch our movie on fibre cement](#)

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<b>Overall width</b>	1086mm
<b>Net covering width</b>	1016mm
<b>Thickness</b>	(nominal) 6.7mm
<b>Minimum density</b>	1400kg/m³
<b>Pitch of corrugation</b>	(nominal) 146.5mm
<b>Depth of profile</b>	47.6mm
<b>Profile height category</b>	C
<b>Side lap</b>	70mm
<b>Maximum end lap</b>	150mm
<b>Minimum end lap</b>	150mm
<b>Maximum purlin centres</b>	1375mm
<b>Maximum rail centres</b>	1825mm
<b>Maximum unsupported overhang</b>	350mm
<b>Approx weight of roofing</b>	As laid with 150mm end laps: single skin including fixings: 17kg/m²
<b>Minimum roof pitch</b>	5°
<b>Dimensions</b>	Standard lengths (mm): 1525, 1675, 1825, 1975, 2125, 2275, 2440,

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2600, 2750, 2900, 3050

Farmscape lengths (mm): 1525, 2440, 2900

Approximately covering capacities for estimated purposes:

1375mm purlin spacing, normal side lap, 150mm end lap: approx. 1.13m<sup>2</sup> of material covers 1.0m<sup>2</sup>

1375mm purlin spacing, normal side lap, 300mm end lap: approx. 1.19m<sup>2</sup> of material covers 1.0m<sup>2</sup>

**Properties****Impact resistance**

The test for fragility of roofing assemblies' ACR (M) 001: 2005 consists of a 45kg bag being dropped from a height of 1200mm onto a fixed sample of roofing. It is intended to provide information about whether the roof can support the instantaneous loads imposed on it by persons stumbling or falling onto it. A roof is classified as fragile if the bag passes through the roof assembly.

If the bag is retained on the test assembly and no other drop tests are carried out, the assembly shall be classified as Class C non-fragile assembly. Profile 6 sheets meet this requirement.

**Sound insulation**

When tested in the critical frequency range of 100-3150Hz, Marley Eternit profiled sheeting achieves the following mean airborne sound reduction:  
Profile 6 single skin 26 decibels

**Breaking strength**

The minimum breaking strength for Profile 6 sheets is defined under BS EN 494. The minimum against grain breaking load (purlin to purlin) for Profile 6 is 4250N/m. The minimum with grain bending moment at rupture (ridge to ridge) for Profile 6 is 55Nm/m.

**Installed weight**

The approximate installed dry weight of single and double skin profiled sheeting with fixings and the required side and end lap is as follows:  
Profile 6 single skin 17.0kg/m<sup>2</sup>

**Fire**

External fire exposure: the sheets have a P60 (external SAA) rating to BS 476: Part 3: 1975, and can be classified Class 0 in accordance with the Building Regulations.

**Water tightness**

Fibre cement complies with BS EN 494: Clause 5.3.4.

**Moisture content**

When new, fibre cement sheeting has a relatively high moisture content. If humid conditions prevail, damp patches (without formulation of droplets) may appear on the underside of the sheets. This phenomenon is in no way detrimental to performance, and will disappear within 12 months, in the course of natural exposure.

**Condensation control**

Whilst Profile 6 is watertight, it has the ability to absorb up to 25% of its dry weight in moisture and dissipate it in more favourable conditions. This material characteristic has a significant effect in reducing condensation occurrence.

**Effects of chemicals**

Over the years chemical and industrial atmospheric pollution will cause a slight softening of the surface of natural finish fibre cement sheets. The acrylic paint finish provides added protection against many acids, alkalis and solvents normally found in the atmosphere.

Where fibre cement is to be used in particularly aggressive atmospheres, with higher than normal concentrations of acids, alkalis, fats or salts, please contact the Technical Department for advice.

#### Biological

Marley Eternit profiled sheets are vermin and rot-resistant, but lichen may grow on the outer surface. For advice on removal, please contact the Technical Department.

#### Effects of low and high temperature

Marley Eternit profiled sheeting is designed to be minimally affected by frost or climatic temperature changes.

For buildings in which higher than normal temperatures occur, or in areas which are expected to be subjected to sudden changes in temperature, special considerations may be necessary. (Consult the Technical Department for recommendations).

#### Thermal and other movements

The amount of movement is negligible, but it is necessary to provide movement joints in association with the structural framework. (For details of movement joints, please see the Profiled Sheeting Design Guide) The co-efficient of linear expansion for profiled sheeting is  $8 \times 10^{-6} \text{m/mK}$ .

#### Thermal conductivity

Marley Eternit profiled sheeting has only low thermal conductivity when compared with other sheet roofing products. This serves to reduce heat build up in summer and heat loss in winter.

Thermal conductivity (k) = 0.48W/mK.

#### Thermal transmittance (U value)

When constructed as detailed in this compendium, all insulated systems will exceed a U value of 0.25W/m<sup>2</sup>K. (This is the standard U-value required by Building Regulations Approved Document L2 for roofs with integral insulation on buildings other than dwellings.)

#### Durability

Marley Eternit profiled sheeting may be regarded as having a normal life of at least 50 years, but the durability of the fixing accessories should be taken into account.

Atmospheric pollution is not normally sufficiently concentrated to be harmful. Measures should be taken to prevent corrosion of the fixing accessories, e.g. by the use of plastic washers and caps.

Marley Eternit profiled sheeting is resistant to most forms of atmospheric attack but with age becomes less elastic and a small deflection will be experienced, which may make it less resistant to impact. Its transverse strength, however, is maintained

Profile 6 is a high strength fibre cement corrugated roof sheet with polypropylene reinforcement strips inserted along precisely engineered locations that run along the length of the sheet. This provides maximum impact strength without affecting the durability of the product.

Profile 6 has a very broad appeal. It is designed for roofs of 5° pitch and over and for vertical cladding in both single skin and insulated constructions.

A comprehensive range of accessories is available and apart from the natural grey finish, sheets and accessories can be supplied in a wide range of colours.

#### Advantages of Marley Eternit Fibre Cement Profile 6

- can achieve A+ or A ratings in the Green Guide
- Only UK manufacturer of fibre cement profiled sheeting
- Highly cost effective weather proofing
- Low maintenance profiled roofing sheet solution
- Does not rust, rot or corrode
- Resistant to chemical attack
- Excellent noise and thermal insulation



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<b>Country of production</b>	Meldreth, UK
<b>Environmental management</b>	14001
<b>Quality management</b>	9001
<b>Health and safety management</b>	18001
<b>LCA study</b>	Can achieve an A+ rating in the BRE Green Guide to Specification
<b>Energy</b>	Manufactured using a continuous lamination process into moulding sheets which are heat cured.
<b>Raw materials</b>	Cement, dilica, fibres, pigments and fillers
<b>Lifespan</b>	> 60 years
<b>Recyclability</b>	Can be crushed and used in cement manufacture

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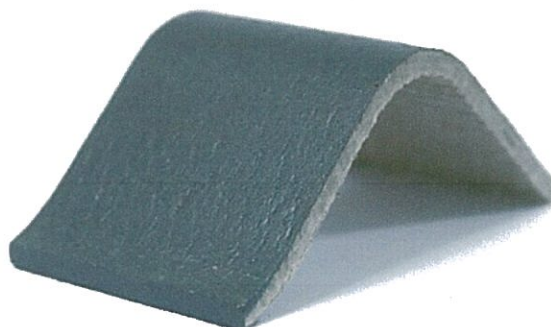
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