Profile 6 - Profiled Roofing Sheets

Rust, Rot and Corrosion Free

Advantages
- 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

Downloads
- Profiled Sheetings Choosing and Using
  Size: 1.16 Mb
- Profiled Sheetings Design Guide
  Size: 5.05 Mb

Colours

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<td>1085mm</td>
<td></td>
</tr>
<tr>
<td>Net covering width</td>
<td>1016mm</td>
<td></td>
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<tr>
<td>Thickness</td>
<td>(nominal) 6.7mm</td>
<td></td>
</tr>
<tr>
<td>Minimum density</td>
<td>1400kg/m³</td>
<td></td>
</tr>
<tr>
<td>Pitch of corrugation</td>
<td>(nominal) 146.5mm</td>
<td></td>
</tr>
<tr>
<td>Depth of profile</td>
<td>47.6mm</td>
<td></td>
</tr>
<tr>
<td>Profile height category</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Side lap</td>
<td>70mm</td>
<td></td>
</tr>
<tr>
<td>Maximum end lap</td>
<td>150mm</td>
<td></td>
</tr>
<tr>
<td>Minimum end lap</td>
<td>150mm</td>
<td></td>
</tr>
<tr>
<td>Maximum purlin centres</td>
<td>1375mm</td>
<td></td>
</tr>
<tr>
<td>Maximum rail centres</td>
<td>1825mm</td>
<td></td>
</tr>
<tr>
<td>Maximum unsupported overhang</td>
<td>350mm</td>
<td></td>
</tr>
<tr>
<td>Approx weight of roofing</td>
<td>As laid with 150mm end laps: single skin including fixings: 17kg/m²</td>
<td></td>
</tr>
<tr>
<td>Minimum roof pitch</td>
<td>5°</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>Standard lengths (mm): 1525, 1975, 1825, 1975, 2125, 2275, 2440</td>
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- Case Studies
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- BIM Space
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### About
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- Corporate Social Responsibility
- Working at Marley Eternit
- Construction Products Regulation

### Popular Products
- Fibre Cement Sheets
- Equitone [fibrous]
- Clay Tiles
- Cedar Weatherboard
- Profiled Sheetings
- Edgemere
- Equitone [natural]

### Contact ME
- Email ME
- Stockist Locator
- Location Maps

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**Farmscape lengths (mm):** 2650, 2750, 2800, 3050

**Approximately covering capacities for estimated purposes:**
- 1375mm purlin spacing, normal side lap, 150mm end lap: approx. 1.13m² of material covers 1.0m²
- 1575mm purlin spacing, normal side lap, 300mm end lap: approx. 1.16m² of material covers 1.0m²

### 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 stumping 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 in grain bending moment at rupture (ridge to ridge) for Profile 6 is 55N/m².

#### 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 17.08kg/m²

#### Fire
External fire exposure: the sheets have a P50 (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 formation 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 Sheetling Design Guide) The co-efficient of linear expansion for profiled sheeting is 8 x 10⁻⁶/m/°K.

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/m²K. (This is the standard U-value required by Building Regulations Approved Document L.2 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 6° 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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- Profiled Sheetink Design Guide
  Size: 5.05 Mb

Colours
- Technical
- Environmental
Case Studies
- Country of production: Medreth, UK
- Environmental management: 14001
- Quality management: 9001
- Health and safety management: 18001
- LCA study: Can achieve an A+ rating in the BRE Green Guide to Specification
- Energy: Manufactured using a continuous lamination process into moulding sheets which are heat cured.
- Raw materials: Cement, clinker, fibres, pigments and fillers
- Lifespan: > 80 years
- Recyclability: Can be crushed and used in cement manufacture

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Downloads
- Profiled Sheetin Choosing and Using
  Size: 1.18 Mb
- Profiled Sheetin Design Guide
  Size: 5.05 Mb

Case Studies
- Balmenach Distillery
- Coastal House
- Gortloch
- Royal Cornwall Showground
- Profile 6 takes no bull
- Marley Eternit sponsors TOG 20...

Profile Resources

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