Next generation Farmlite GRP rooflight sheets are tough, long-lasting, cost-effective and easy to handle rooflights guaranteed to improve the internal environment of a farm building for over 25 years. Developed with anti-yellowing technology, which resists the long term damaging effects of UV radiation, Farmlite GRP rooflights will remain more translucent, durable and longer lasting than poorer performing GRP rooflights typically found in the agricultural sector. The dual action surface protection and inbuilt UV stabilised resin system act to safeguard Farmlite GRP rooflights against surface erosion for a working sheet life in excess of 25 years, whilst preventing significant yellowing for at least 20 years. Farmlite GRP rooflights ensure the farm building remains light and bright for the life of the farm building at minimal extra cost.

- Protection from yellowing
- Long term quality light transmission
- Superior strength
- Enhanced durability
- Sheet life of 25 years+

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KEY BENEFITS

- Improved Farm Productivity
  Quality natural light in agricultural buildings encourages healthier, more disease resistant livestock and provides a better working environment for farm workers, resulting in improved productivity all round. However, the poor quality GRP rooflights more commonly used in farm buildings degrade quickly leading to a rapid loss of light transmission within the building and with it all the advantages that natural light can offer. Farmlite rooflights have been purpose designed to remain translucent and provide a longer lasting quality light transmission.

- Superior Strength
  Farmlite GRP rooflights are stronger due to their weight (1.8 kg/m², 2.4 kg/m² and 3.0kg/m²) with a typical glass fibre content of at least 33%.

- Longer Life Transparent Sheets
  Enhanced protection from UV exposure and weathering ensure Farmlite GRP rooflights are longer lasting. Specially formulated resins and UV surface protection safeguard Farmlite sheets against the long term damaging effects of UV light which typically accelerate surface degradation and cause yellowing. Under normal conditions, the sheet life of Farmlite should be in excess of 25 years and significant discolouration will not occur for at least 20 years. In comparison, inferior grades of GRP will yellow with age, lose light transmission, and, suffer surface erosion, and consequential weakening and possible breakage very early.

- Versatility
  Farmlite GRP rooflights may be used in single skin, double skin and triple skin site assembled applications where necessary.

APPLICATIONS

In the roofs and sidelights of:
- Barns
- Storage sheds
- Milking parlours
- Animal sheds
- Stables/equestrian buildings
- Farm shops

Some recently tested sheet commonly used in the farm building sector has been found to have as little as 25% glass fibre.
DISCOLOURISATION

QUV Test
Accelerated weathering tests examine how rooflights perform under prolonged exposure to UV light. They can give comparisons between materials and can demonstrate the difference in performance between Farmlite, and lower grade GRP rooflights which have been commonly used in agricultural buildings. They can’t be related directly to a specific period of real life weathering (because, for example, in real life there is more exposure on south facing roofs than north facing roofs, and real life exposure varies from one year to another) but the best approximation is that 2000 hours exposure is roughly equivalent to 10 years real life exposure, and 6000 hours is roughly equivalent to 30 years real life exposure.

Results

<table>
<thead>
<tr>
<th>QUV Exposure (Hours)</th>
<th>Similar to 30 years Exposure in Normal Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Low Grade GRP Sheet</td>
</tr>
<tr>
<td>1000</td>
<td>Yellowing</td>
</tr>
<tr>
<td>2000</td>
<td>Farmlite GRP Sheet</td>
</tr>
<tr>
<td>4000</td>
<td></td>
</tr>
<tr>
<td>6000</td>
<td></td>
</tr>
</tbody>
</table>

Findings
Farmlite GRP - The Farmlite GRP sheet demonstrated a relatively unchanged appearance with no marked occurrence of yellowing and little effect on light transmission levels.

Low Grade GRP - The typical low grade GRP sheet was found to have significantly discoloured and light transmission was substantially reduced as a consequence of the discolouration.

LIGHT TRANSMISSION
Light transmission for Farmlite is between 85% - 85%

FIRE PERFORMANCE
SAB Class 3

MANUFACTURE
Farmlite GRP is manufactured to EN 1013 under ISO 9001 Quality Management System.

INSTALLATION
Full installation details are available on request.

MAINTENANCE, HANDLING & STORAGE
Full maintenance, handling and site storage details are available on request.

REMEMBER:
Brett Martin offer a range of GRP sheet options to achieve required safety levels, U values and fire ratings in single, double and triple skin applications. For further details please visit our website.

ACCESSORIES
Foam Fillers, Tapes and Sealants
Rainwater Systems

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