

## EVOLUTION LC1

### PRODUCT DATA SHEET - TRANSLUCENT PROFILED GRP ROOFLIGHT SHEET

Profiles	To Match Cladding System	
Colour	Natural translucent	
Fire grade	<p>SAB to BS 476-3; Class 3 to BS 476-7 and B<sub>ROOF</sub>(t4) to EN13501-5. (Identified by RED coloured thread)</p> <p>SAA to BS 476-3; Class 1 to BS 476-7, B<sub>ROOF</sub>(t4) to EN13501-5 and TP(a) rigid to BS 2782-0 Method 508A. (Identified by GREEN coloured thread)</p> <p>SAA to BS 476-3; Class 0 to BS 476-6, B<sub>ROOF</sub>(t4) to EN13501-5 and TP(a) rigid to BS 2782-0 Method 508A. (Identified by BLUE coloured thread)</p>	
Surface finish	UV stabilised polyester film to weather/outer surface	
Nominal weight	2.4kg/m <sup>2</sup>	
Flat weight	<p>2.43kg/m<sup>2</sup> (Class 3)</p> <p>2.59 kg/m<sup>2</sup> (Class 1 &amp; 0)</p>	
Nominal thickness	1.2mm	
Nominal density	<p>1620kg/m<sup>3</sup> (Class 3)</p> <p>1726kg/m<sup>3</sup> (Class 1 &amp; 0)</p>	
Flexural strength	BS EN ISO 14125: +A1 2011	313MPa
Elastic modulus	BS EN ISO 14125: +A1 2011	7432MPa
Barcol hardness	BS 2782-10	56
Glass content	BS 2782-10	<p>46% (Class 3)</p> <p>44% (Class 1 &amp; 0)</p>
Light transmission*	BS EN ISO 13468-2:2021	64%
Operating temperature	-20 to +80°C	
Coefficient of thermal expansion	22 x 10 <sup>-6</sup> mm/mm per°C	

\*Typical subject to colour & manufacturing variations

All Hambleside Danelaw Ltd rooflight sheets are manufactured and CE/UKCA marked in accordance with BS EN 1013 including UK Annex.

<b>SPAN RECOMMENDATIONS</b> This table shows the maximum span recommendations for Zenon Evolution LC1 when used as a top/outer sheet.	DEPTH OF PROFILE (mm)	PURLIN CENTRES (m)
	15 to 20	1.75
	21 to 25	2.25
	26 to 30	2.60
	31 to 35	2.70
	Over 35	2.80

### Dimensional Tolerances

The dimensions of the sheets supplied shall be within the following tolerances on the nominal tolerances as declared:

<b>Length:</b>	Sheets up to 5m long, -0 to +10mm Sheets over 5m long, -0 to +15mm
<b>Width:</b>	±5mm
<b>Squareness:</b>	The deviation shall be not more than 0.5mm in every 100mm of width within the sheet tolerance.

### Biological Resistance

Resistant to attack by micro organisms, fungi, larvae, insects and mildew. Wash with mild detergents to remove any deposits.

### Chemical Resistance

Exposure to certain acids, alkalis and solutions of water soluble gases may be detrimental to the durability and integrity of the rooflight sheets. For further information, please contact our Sales Office.

### Materials Compatibility

No chemical reaction with any other established construction materials.

### Service Life Guarantee

Hambleside Danelaw guarantee that the product will have a service life of 30 years subject to being handled, stored, fitted and maintained in accordance with their recommendations. For further details, please contact our Sales Office.

### Health and Safety

When tested in accordance with the current edition of ACR[M]001 Zenon Evolution LC1 will achieve Class B Non-Fragile when used as a single skin rooflight installation, or when used in conjunction with sheets of similar or different weights in site assembled or factory assembled rooflight configurations, for an expected period up to 30 years when installed in accordance with manufacturer's recommendations subject to all other elements of the roof construction retaining their integrity and performance for the same period.

**Please note** that this document provides outline guidance only and reference should be made to ACR[M]001 Test for Non-Fragility of Large Element Roofing Assemblies and The Rooflight Association Technical Document NTD03.1

GRP rooflights are extremely durable and their strength will be retained in the long term. However, the period of non-fragility of these rooflights may vary depending on the possible effect of external factors, unless fully documented maintenance procedures are sufficiently comprehensive to ensure prevention of any factors which could render the rooflight assembly fragile. Most typical maintenance regimes are not usually sufficient to achieve this; in the interests of safety it is prudent when accessing roofs incorporating these rooflights to take full safety precautions.

**Never walk** on rooflights, irrespective of their non-fragility classification. Even rooflights that are designed to be non-fragile for the life of the roof could be damaged by foot traffic, and this may affect both the non-fragility performance and the light transmitting quality of the rooflight in the long term.

All the information contained within this data sheet is provided in good faith and without guarantee or warranty. Hambleside Danelaw reserves the right to change the specification of its products at any time. No liability can be accepted for any losses, claims or demands that may arise as a result of the information provided in this data sheet. This statement does not affect statutory rights.

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