

EVOLUTION LC2

PRODUCT DATA SHEET - TRANSLUCENT PROFILED GRP ROOFLIGHT SHEET

Profiles	To Match Cladding System	
Colour	Natural translucent	
Fire grade	SAA TO BS 476-3; CLASS 0 TO BS 476-6 (Identified by BLUE coloured thread)	
	SAA TO BS 476-3; CLASS 1 TO BS 476-7 (Identified by GREEN coloured thread)	
	SAB TO BS 476-3; CLASS 3 TO BS 476-7 (Identified by RED coloured thread)	
Surface finish	UV stabilised polyester film to weather/outer surface	
Nominal weight	3.0kg/m ²	
Flat weight	3.03kg/m ² (Class 3)	
	3.26kg/m ² (Class 1 & 0)	
Nominal thickness	1.53mm	
Nominal density	1584kg/m ³ (Class 3)	
	1704kg/m ³ (Class 1 & 0)	
Flexural strength	ASTM D790	336N/mm ²
Flexural modulus	ASTM D790	9.9kN/mm ²
Tensile strength	BS 2782-10	153N/mm ²
Tensile modulus	BS 2782-10	8.7kN/mm ²
Barcol hardness	BS 2782-10	56
Glass content	49% (Class 3)	
	47% (Class 1 & 0)	
Light transmission*	BS EN ISO 13468-2:2006	62%
Operating temperature	-20 to +80°C	
Coefficient of thermal expansion	22 x 10 ⁻⁶ mm/mm per°C	

*Typical subject to colour & manufacturing variations

All Hambleside Danelaw Ltd rooflight sheets are manufactured and CE marked in accordance with BS EN 1013:2012 + A1:2014

SPAN RECOMMENDATIONS	DEPTH OF PROFILE (mm)	PURLIN CENTRES (m)
This table shows the maximum span recommendations for Zenon Evolution LC2 when used as a top/outer sheet.	15 to 20	1.80
	21 to 25	2.40
	26 to 30	2.80
	31 to 35	2.90
	Over 35	3.00

Dimensional Tolerances

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

Length:	Sheets up to 5m long, -0 to +10mm Sheets over 5m long, -0 to +15mm
Width:	±5mm
Squareness:	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 ACR(M)001:2014 (Fifth Edition) Zenon Evolution LC2 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 in excess of 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]001:2014 Test for Non-Fragility of Large Element Roofing Assemblies (Fifth Edition) and NARM Technical Document NTD03.

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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