

ZENON PRO 18

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_{ROOF}(t4) to EN13501-5. (Identified by RED coloured thread)</p> <p>SAA to BS 476-3; Class 1 to BS 476-7, B_{ROOF}(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_{ROOF}(t4) to EN13501-5 and TP(a) rigid to BS 2782-0 Method 508A. (Identified by BLUE coloured thread)</p>	
Nominal weight		1.8kg/m ²
Flat weight		1.50kg/m ²
Nominal thickness		0.92mm
Nominal density		1630kg/m ³
Flexural strength	ASTM D790	168N/mm ²
Flexural modulus	ASTM D790	5.0kN/mm ²
Tensile strength	BS 2782-10	67N/mm ²
Tensile modulus	BS 2782-10	4.9kN/mm ²
Barcol hardness	BS 2782-10	44
Glass content	BS 2782-10	33%
Light transmission*	BS EN ISO 13468-2:2021	81%
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/UKCA marked in accordance with BS EN 1013 including UK Annex

SPAN RECOMMENDATIONS This table shows the maximum span recommendations for Zenon Pro 18 when used as a top/outer sheet.	DEPTH OF PROFILE (mm)	PURLIN CENTRES (m)
	15 to 20	1.25
	21 to 25	1.50
	26 to 30	1.60
	31 to 35	1.80
	Over 35	2.00

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 25 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, Zenon Pro 18 is unlikely in many applications to achieve a Non-Fragile rating when used as a single skin installation or in a liner panel assembly. When used in conjunction with sheets of similar or different weights in site assembled or factory assembled configurations, Zenon Pro 18 can contribute to the achievement of up to Class B Non-Fragile for an expected period up to 25 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 sheets are extremely durable and their strength will be retained in the long term. However, the period of non-fragility of these sheets 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 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 products 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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