Declaration of performance - Zenon Curve (span 2.5m - 4m)

No. 008HDL2013-09-01 REV2 07/2019

1. Unique identification code of the product-type:

Translucent, longitudinally profiled, pre-curved single or multilayer sheets of UV stabilized polyester resins with glass fibre reinforcement. Self supporting 2.5m - 4m span and unlimited in length.

2. Type, batch or serial number or any other element allowing identification of the construction product as required under article 11 (4) of the COP:

Zenon Curve (span 2.5m - 4m)

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

Providing weather protection and daylight illuminance to any enclosed or partially enclosed agricultural, commercial or industrial building.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under article 11 (5):

Hambleside Danelaw Limited
Long March
Daventry
Northamptonshire
NN11 4NR

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in article 12 (2):

Not applicable

6. System or systems of assessment and verification of constancy of performance of the construction products set out in CPR, Annex V:

System 3

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

ETAG 010

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Not Applicable

9. Declared performance:

Hambleside Danelaw 13 ETAG010 Translucent, longitudinally profiled, pre-curved single or multilayer sheets of UV stabilized polyester resins with glass fibre reinforcement. Self-supporting 2.5m - 4m span and unlimited length.		
Essential Characteristics	Performance	Harmonised Technical Specification
Wind uplift - Pressure at failure Kit with Archlight GRP Standard Kit with Archlight GRP 1200J Kit with Archlight GRP 1200J (French)	 3.3 kPa 4.0 kPa 6.8 kPa	2.1.1. ETAG 010
Downward Load - Pressure at failure Kit with Archlight GRP Standard Kit with Archlight GRP 1200J Kit with Archlight GRP 1200J (French)	 2.9 kPa 3.2 kPa 3.2 kPa	2.1.1. ETAG 010
Half span load Pressure at failure Archlight GRP Standard Kit with Archlight GRP 1200J Kit with Archlight GRP 1200J (French)	 1.4 kPa 1.4 kPa 1.4 kPa	2.1.1. ETAG 010
Racking resistance	NPD	
Geometry/Weight per unit area of the sheet Overall dimension Cove width dimension Thickness Total mass of the developed area	 1070mm 1020mm 1.2mm ±10% 1665g/m^2 ±50g	5. 3. 1. 3. 1. 4. ETAG 010
Deformation behaviour after 0.1 h 250N loading Archlight GRP Standard Archlight GRP 1200J	 4.9mm 5.9mm	2. 1. 6. ETAG 010 4. 3. ETAG 010
Break behaviour of the sheet	No failure covered	4. 4. ETAG 010
Impact strength of the sheet Archlight GRP Standard Archlight GRP 1200J Archlight 1200J (French)	 SB 800 SB 1200 SB 1200	EN 14963
Heat resistance of the sheet	NPD	
Glass content of the sheet	400g/m^2 ±20g	EN ISO 1172
Curing of the sheet Archlight GRP standard Archlight GRP 1200J	 f_{1h}: 5.18mm; f_{24h}: 5.86; f_c: 8.11 f_{1h}: 6.19mm; f_{24h}: 6.19; f_c: 8.41	5. 3. 1. 3. 1. 4. ETAG 010
External fire performance with kit M2	Class B_{roof} (t1)	EN 13501-5
Reaction to fire Archlight GRP clear or opal Archlight GRP 1200 Joule Archlight GRP Heatstop Seal	E E E F	EN 13501-1
Resistance to Fire	NPD	EN ISO 1172
Release of dangerous substances	No dangerous substances above the acceptable limits	2. 3. 1. ETAG 010
Watertightness and presence of dampness	Class 2 - No leakage up to 600 Pa	EN 12207
Condensation Risk	Low (46%)	2. 3. 2. 2. ETAG 010
Shatter properties/safe breakability	No break during test	2. 4. 2. ETAG 010
Thermal conductivity sheet	0.19 W/mK	2. 6. 5. ETAG 010
Resistant to corrosion and deterioration	All compatible without risk of corrosion or deterioration in dry, humid or aggressive environment	2. 7. 1. ETAG 010
Durability of the sheet Light Transmission Yellowness	Sun exposure A2 Maintained at minimum 85% of the original values (max 98.6% for clear, max 66.3% for opal, max 69.1% for HS) Less than 20%	2. 7. 2. ETAG 010
Effects of chemicals end materials in contact	No effects of household detergents during normal use	2. 7. 3. 2. ETAG 010
Corrosion resistance of metallic fasteners	Slight risk of corrosion due to condensation	ISO 6988 5. 5. 7. 1. ETAG 010

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Robin Hupfield – Commercial Director

16.06.2016

Date of issue

Signature

DOP No. 008HDL2013-09-01 REV2 07/2019 ZENON FROM HAMBLESIDE DANELAW

Product Safety Datasheet

Hambleside Danelaw Limited
Long March
Daventry
Northamptonshire
NN11 4NR

Description
Translucent, longitudinally profiled, pre-curved single or multilayer sheets of UV stabilized polyester resins with glass fibre reinforcement. Self-supporting 2.5m - 4m span and unlimited in length.

Manufactured from translucent glass reinforced UV stable polyester with UV protective coating on the outer weather surface.

Always avoid walking on rooflights at all times.

Handling
Suitable hand protection should be worn when handling GRP sheets to prevent cuts from sharp edges.

Care should be taken when handling the sheets in windy conditions as they may become difficult to handle due to the large surface area and low weight.

It is recommended that sheets are lifted onto roofs by mechanical means. Rooflights may be considered to be fragile until fully and correctly fitted and may be damaged by inconsiderate handling. It is preferable to carry sheets in the vertical position with the long edge horizontal. Long units should never be lifted by the ends only or carried flat/horizontally.

Storage
All rooflights should be stored in clean dry conditions and off the ground.

For Zenon Curve rooflights, store on the delivery pallets or on suitable bearers spaced no more than 1.5 metres apart and keep all bearers aligned.

To avoid damage, all rooflights should be stored indoors or under cover. If this is not possible, install protective sheeting over the units anchored to the ground to prevent exposure to rain and direct sunlight prior to installation. All rooflights should be protected from direct sunlight prior to installation to avoid heat build-up and exposure to unprotected surfaces.

Installation
Hambleside Danelaw Zenon Curve rooflights present no hazards to health as they are generally made to measure requiring no cutting and fixed into position with adequate natural ventilation.

If any cutting or drilling should be required by power tools in confined spaces, a build-up of airborne dust could be experienced. The Health and Safety Executive (HSE) have set Workplace Exposure Limits (WELs) for inhalable dust, for details of the limits refer to the latest edition of guidance note EH40, currently the limit for inhalable dust for long term exposure (8 hours TWA reference period) is 10mg/m^3.

Should there be a possibility of exceeding the WEL, the use of a dust mask to at least FFP1 is recommended.

Skin contact with GRP dust may in some cases cause minor irritation. The dust should be washed from the skin using soapy water and if irritation persists, medical advice should be sought. This irritation can be avoided by using appropriate protective clothing and/or barrier cream.

Eye contact may cause irritation, if so flush the eye with copious quantities of clean water and seek medical attention. In line with current industry practice, always wear goggles when using powered tools.

Use
Hambleside Danelaw Zenon Curve GRP rooflights present no hazard in normal use.

Maintenance
It is recommended that rooflights and all associated fixings and seals are inspected every 2 to 3 years. Any loose or insecure fittings should be tightened or replaced as appropriate. To maintain light transmission due to soiling and to prevent any biological growth or contamination that may attack the surface protection, rooflights should be cleaned using a mild detergent in solution and a soft bristle brush; harsh chemicals or abrasive cleaners should not be used to avoid damaging the UV protective surface layer. If the protective layer is damaged it may, in some cases, be repaired with UV inhibiting clear varnish.

Fire
In case of fire, toxic gases may be given off and suitable fire fighting precautions must be taken.

Disposal
Toxicological - Inert, no hazard

Ecological – Inert, no hazard

Contact the Hambleside Danelaw for the current recommended disposal route.

Contact
Email: techelp@hambleside-danelaw.co.uk
Website: www.hambleside-danelaw.co.uk

Recommended installation instructions