



Declaration of Performance

Nr. VBP.14.001

1. Product	Prefabricated accessories for roofing - Individual roof lights of plastics		
2. Product type	Type : BG-VD xx		
3. Intended use	Light transmittance for flat and/or inclined roofs		
4. Name and address manufacturer	Kunststoffenindustrie Van Boven B.V. Schelluinsestraat 52-56 Postbus 101 4200 AC Gorinchem		
5. Name and address of the authorized representative (Where applicable)	N.a.		
6. System of attestation of conformity	System 3: Initial type testing by notified test laboratory Factory production control by manufacturer		
7. Tasks of the notified test laboratory according harmonized standard	Initial type testing by SKG. (identification number 0960) on basis of sampling. Rapport number: 09.105-01		
8. European Technical Assessment	N.a.		
9. Declared performance			
Essential characteristics	Performance		Harmonized technical specification
Mechanical resistance	<i>Acrylic (pmma)</i>	<i>Polycarbonate (pc)</i>	
-to upward loads	UL 1500	UL 1500	NEN-EN 1873:2006
-to downward loads	DL 1125	DL 1125	NEN-EN 1873:2006
-to impact of large soft body	NPD	<SB 600	NEN-EN 1873:2006
-to impact of small hard body	Akkoord	Akkoord	NEN-EN 1873:2006
Reaction to fire	E, s2, d2	B, s1, d0	EN 13501-1
Contribution to fire propagation	Klasse 4	Klasse 2	NEN 6065
Fire Class	B2	B1	DIN 4102
Impact resistance compared to glass	25x	300x	
Flexural Strength	105 N/mm ²	90 N/mm ²	
Elastic modules	3300 N/mm ²	2400 N/mm ²	ISO 527
Form Resistance (Vicat)	102°C	150°C	ISO 306
Durability	Δ A, Cu 1, Ku 1	Δ A, Cu 1, Ku 1	NEN-EN 1873:2006

Light transmittance	Acrylic (pmma)		Polycarbonate (pc)	
	L.T.A.	Z.T.A.	L.T.A.	Z.T.A.
Single layer clear	92	85	92	82
Single layer opal	85	78	50	62
Double layer clear/clear	85	78	85	74
Double layer opal/clear	78	66	46	52
Double layer heatstop/clear	47	32		
Three double layer clear/clear/clear	78	67	78	65
Three double layer opal/clear/clear	72	62	42	50
ISO rooflight opal/clear/opal	67	58		

Thermal transmittance (NEN-EN-ISO 10211)	U-value
Single layer rooflight	5,60
Double layer rooflight	2,98
Three double layer rooflight	1,90
ISO rooflight	1,35
AVP upstand	2,56
Polyester upstand H15	2,23
Polyester upstand E15	1,31
Stained-glass window with single layer rooflight	0,93
Stained-glass window with double layer rooflight	0,81
Stained-glass window with three double layer rooflight	0,71
Stained-glass window with ISO rooflight	0,61
(U-value per size/implementation available on request)	

Airborne sound insulation (dB reduction) NEN-EN-ISO 140-3	dB
Single layer rooflight with upstand	20
Double layer rooflight with upstand	22
Three double layer rooflight with upstand	24
ISO rooflight with upstand	23
Single layer rooflight with ventilation upstand	20
Double layer rooflight with ventilation upstand	21
Three double layer rooflight with ventilation upstand	23
ISO rooflight with ventilation upstand	22
Stained-glass window with single layer rooflight	36
Stained-glass window with double layer rooflight	37

DOP conforms according system 3, Annex ZA of EN 1873:2006

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. 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.

Gorinchem, 17-03-2014

Signature :

J.J.G. van Os
Director

