POLYVANTIS

DECLARATION OF PERFORMANCE

LEXAN™ EXELL™ D OB SHEET

4-8mm gauge colors WH7D136O

1.
Element allowing identification of the construction product:
EXELLDOB

2.
Intended use:
For internal and external use in roofs, walls, and ceilings.

3.
Manufacturer:
F&S B.V.
Joulehof 16
4622 RG Bergen op Zoom
The Netherlands

4.
System of Assessment and Verification of Constancy of Performance (AVCP):
AVCP System 3 for all characteristics.

5.
In case of the declaration of performance concerning a construction product covered by a harmonized standard:
WFRGENT (Notified Body 1173), performed testing of the reaction to fire (based on sampling carried out by the manufacturer) under system 3.

6.
Declared performance:
All characteristics listed in the table below are determined following harmonized standard EN 16240: 2013 Light transmitting flat solid polycarbonate (PC) sheets for internal and external use in roofs, walls.

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7.
Element allowing identification of the construction product:

Essential characteristics	Performance			
External fire performance	F_{roof} (NPD)			
Reaction to fire >8mm	B, s1, d0			
Resistance to fire	NPD			
Water vapor permeability	3,8 ´ 10^{-5} mg/m×h×Pa			
Water/air permeability	Pass			
Release of dangerous substances	NPD			
Dimensional tolerances	Pass			
Shatter properties (safe breakability) as:				
- Small hard body impact resistance	Pass			
- Large soft body impact resistance (assembly)	Pass			
Deformation behavior	NPD			
Direct airborne sound insulation	4mm	R= 27dB	6mm	R= 29dB
	5mm	R= 28dB	8mm	R= 30.5dB
Thermal transmittance	NPD			
Light transmittance	τ_v			
Color - τ_v (%)	4mm	6mm	8mm	
WH7D136O	41	31	24	
Resistance to fixings	Method of fixing (see manufacturer's datasheet)			
Durability, as variation (after ageing):				
- of yellowness index	6 (ΔA)			
- of the light transmittance	7 % (ΔE)			
- of deformation flexural modulus	NPD			
-of tensile strength	NPD			

8.
The performance of the product identified above is in conformity with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

P. van den Bleek

Bergen op Zoom, 01-07-2024



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LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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