POLYVANTIS

DECLARATION OF PERFORMANCE

LEXAN™ EXELL D™ SHEET

3-12mm gauge Non-standard colors

1.
Element allowing identification of the construction product:
EXELLD

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 3mm-6mm	B, s1, d0			
Reaction to fire >6mm	NPD			
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	3mm	NPD	8mm	R= 30.5dB
	4mm	R= 27dB	9.5mm	R= 31.5dB
	5mm	R= 28dB	12mm	R= 32.5dB
	6mm	R= 29dB		
Thermal transmittance	NPD			
Light transmittance	τ_v			

Colour - τ_v (%)	3mm	4mm	5mm	6mm	8mm	9.5mm	12mm	15mm
112	89	88	88	87	85	85	85	80
5109	50	49	49	49	50	50	NPD	n/a
713	50	49	49	49	50	50	NPD	n/a

Resistance to fixings	Method of fixing (see manufacturer's datasheet)
Durability, as variation (after ageing):	
- of yellowness index	n/a
- of the light transmittance	n/a
- 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 SHEET & FILM | Tough, Virtually Unbreakable

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