POLYVANTIS

DECLARATION OF PERFORMANCE

LEXAN™ MARGARD™ HLG5 SHEET

3-12mm gauge

1.
Element allowing identification of the construction product:
HLG5

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:
Sound insulation is conducted in accordance with the provisions of the test method ISO 10140-2 in the Laboratory for Acoustics of Peutz B.V in Mook.

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	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	8mm	R= 32dB	12mm	R= 34dB			
	9.5mm	R= 33dB					
Thermal transmittance	NPD						
Light transmittance	τ_v						
Color - τ_v (%)	**3mm**	**4mm**	**5mm**	**6mm**	**8mm**	**9.5mm**	**12mm**
112	91	90	90	89	87	86	85
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, 01-09-2024



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