POLYVANTIS

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ SHEET

LT2UV452RS10

1.

Element allowing identification of the construction product:
LT2UV452RS10

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
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.

Harmonized standard:
All characteristics listed in the table below are determined following harmonized standard EN 16153: 2013+A1:2015 Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls, and ceilings.

7.

Declared performance:

Essential characteristics	Performance		
External fire performance	F_{ROOF} (NPD)		
Reaction to fire	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	B_x = 5 Nm^2/m		
	B_y = 3 Nm^2/m		
	S_y = 3000 N/m		
	M_b = 4.5 Nm/m		
Direct airborne sound insulation	R = 15 dB		
Thermal transmittance	U = 3.86 $W/m^2{\cdot}K$		
Light transmittance	τ_v		
Total solar energy transmittance	*g*		
Solar direct transmittance	τ_e		
Color	τ_v (%)	g (%)	τ_e (%)
Clear	83	83	-
Opal White	67	70	-
Bronze	NPD	NPD	NPD
Resistance to fixings	Method of fixing (see manufacturer's datasheet)		
Durability, as variation:			
- of yellowness index	NPD		
- of the light transmittance	NPD		
- of deformation flexural modulus	Cu 1		
-of tensile strength	Ku 1		

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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