POLYVANTIS

DECLARATION OF PERFORMANCE

LEXAN™ THERMOCLEAR™ SHEET

LT2UV105RS175

1.

Element allowing identification of the construction product:
LT2UV105R175

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.

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.

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7.

Declared performance:

Essential characteristics	Performance		
External fire performance	B_{ROOF} (t2)		
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 = 48 Nm^2/m		
	B_y = 21 Nm^2/m		
	S_y = 2700N/m		
	M_b = 41 Nm/m		
Direct airborne sound insulation	R = 19 dB		
Thermal transmittance	U = 2,48 $W/m^2{\cdot}K$		
Light transmittance	τ_v		
Total solar energy transmittance	g		
Solar direct transmittance	τ_e		
Color	τ_v (%)	g (%)	τ_e (%)
Clear	65	65	61
Opal White	60	59	58
Bronze	NPD	NPD	NPD
Resistance to fixings	Method of fixing (see manufacturer's datasheet)		
Classification for artificial ageing	ΔA		
Durability, as variation (after ageing 20Y):			
- of yellowness index	ΔYI<6 Clear ΔYI<10 Colored		
- of the light transmittance	8%		
- 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, 20-11-2025

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LEXAN™ POLYCARBONATE FILM & SHEET Tough, Virtually Unbreakable

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