

Declaration of Performance

DoP number “Exo-UV-01”



1. Unique identification code of the product type

Light transmitting flat smooth or patterned solid clear and colored polycarbonate sheet Exolon UV clear 2099; Exolon UV color, Exolon UV ClimateControl, Exolon DX UV, Exolon SilentSound UV, Exolon UV Adlight, Exolon Titan UV, Exolon UV Sxxx

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of Regulation (EU) N° 305/2011

Exolon UV clear 2099; Exolon UV color 2xxx or 1xxx or Sxxx, Exolon UV ClimateControl color 2xxx, Exolon DX UV, Exolon SilentSound UV, Exolon UV Adlight, Exolon Titan UV clear 2099

3. Intended use or uses of construction product, in accordance with the applicable harmonized technical specification

For internal and external use in roofs, walls and ceilings

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5) of Regulation (EU) N° 305/2011

Exolon Group NV
Wakkensesteenweg 47
8700 Tielt
Belgium

5. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V

System 3

6. Harmonized standard

EN 16240:2013 Light transmitting flat solid polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings – Requirements and test methods

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7. Declared performance

ESSENTIAL CHARACTERISTICS	PERFORMANCE
External fire performance	NPD
Reaction to fire	UV clear: 2-6 mm: B s1 d0 UV colored, Adlight: 2-6 mm: B s2 d0 UV clear and colored: > 6 mm: NPD UV white 2150: 2-3 mm: B s1 d0 > 3 mm: NPD DX UV white 2-5 mm B s1 d0 > 5 mm: NPD ClimateControl 2-6 mm B s2 d0 > 6 mm NPD SilentSound 2-6 mm NPD Exolon UV Sxxx NPD
Resistance to fire	NPD
Water vapour permeability	$3,8 \times 10^{-5}$ mg/m.h.Pa
Water/air permeability	Pass
Release of dangerous substances	NPD
Dimensional tolerances	pass
Shatter properties (save breakability) as: - small hard body impact - large soft body impact	pass NPD
Mechanical resistance (deformation behavior)	$E_{f,mean} = 2200 \text{ Nm}^2$ $E_{f,charac} = 2000 \text{ Nm}^2$ $\sigma_{m,mean} = 60 \text{ MPa}$ $\sigma_{m,charac} = 55 \text{ MPa}$
Direct airborne sound insulation R_w	NPD
Thermal transmittance: U value in $\text{W/m}^2\text{K}$	2 mm: 5.6 ; 3 mm: 5.4 ; 4 mm: 5.3 ; 5 mm: 5.1 ; 6 mm: 5.0 ; 8 mm: 4.8 ; 10 mm: 4.5 ; 12 mm: 4.3 ; 15 mm: 4.1 ; 18 mm: 3.8 ; 20 mm: 3.7
Light transmittance	UV clear and SilentSound: 2 mm: 88% ; 3 mm: 87% ; 4 mm: 87% ; 5 mm: 86% ; 6 mm: 85% ; 8 mm: 84% ; 10 mm: 82% ; 12 mm: 81 % ; 15 mm: 79 % 18 mm: 77 % ; 20 mm: 75 % UV colored, DX UV, ClimateControl colored, Adlight: NPD SX UV, patterned sheet: NPD
Total solar energy transmittance	NPD
Resistance to fixings	the sheet must be framed by proper profiles (see Technical Manual solid sheets)
Durability, as variation (after ageing): UV clear 2099, SilentSound clear, : - of yellowness index: - of the light transmission - of flexural modulus - of tensile strength UV colored, DX UV, ClimateControl, Adlight: - of yellowness index: - of the light transmission - of flexural modulus - of tensile strength	ΔA ΔA Cu 1 Ku 1 ΔD ΔD Cu 1 Ku 1

This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Emmanuel Bral
 Head of R&D and Technical Support
 Tiel, 01/07/2021