

Declaration of Performance

DoP number “Exo-NR-01”



1. Unique identification code of the product type

Light transmitting flat solid polycarbonate sheet Exolon NR clear 099, Exolon NR color, Exolon DX NR

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 NR clear 099, Exolon NR color Nxxx, Exolon DX NR

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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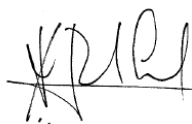
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7. Declared performance

ESSENTIAL CHARACTERISTICS	PERFORMANCE
External fire performance	NPD
Reaction to fire	NR clear and colored: 2-5 mm: B s2 d0 NR white 150 NPD DX NR 2-5 mm B s1 d0
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: <ul style="list-style-type: none">- 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 $\text{W/m}^2\text{K}$	NPD
Light transmittance	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): NR clear 099 (matte side): <ul style="list-style-type: none">- of yellowness index:- of the light transmission- of flexural modulus- of tensile strength UV colored and DX NR (matte side): <ul style="list-style-type: none">- 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

Tielt, 01/07/2021

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