POLYVANTIS

# DECLARATION OF PERFORMANCE

# LEXAN™ THERMOCLEAR™ SHEET

## 2UVIR259X

**1.**

**Element allowing identification of the construction product:**
2UVIR259X

**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.**

**Declared performance:**
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 | $F_{ROOF}$ (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 | $B_x$ = 475 $Nm^2/m$ | | |
| | $B_y$ = 140 $Nm^2/m$ | | |
| | $S_y$ = 20270 N/m | | |
| | $M_b$ = 48 Nm/m | | |
| Direct airborne sound insulation | R = NPD | | |
| Thermal transmittance | U = 1,40 $W/m^2$·K | | |
| Light transmittance | $\tau_v$ | | |
| Total solar energy transmittance | $g$ | | |
| Solar direct transmittance | $\tau_e$ | | |
| Color | $\tau_v$ (%) | $g$ (%) | $\tau_e$ (%) |
| GN8B038T | 36 | 37 | 23 |
| Resistance to fixings | Method of fixing (see manufacturer's datasheet) | | |
| Durability, as variation (after ageing): | | | |
| - of yellowness index | 4 (ΔA) | | |
| - of the light transmittance | 4% | | |
| - 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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