

# DECLARATION OF PERFORMANCE

## LEXAN™ THERMOCLEAR™ Sheet LT2UV259X30

- Element allowing identification of the construction product:  
Unique product name.  
See product label for traceability.
- Intended use:  
For internal and external use in roofs, walls and ceilings
- Manufacturer:  
SABIC  
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Fax: +31164293272  
Email: sfs.info@sabic-ip.com
- System of Assessment and Verification of Constancy of Performance (AVCP):  
AVCP System 3 for all characteristics
- 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.
- Declared performance:  
All characteristics listed in the table below are determined following harmonized standard **EN 16153: 2013 Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings – Requirements and test.**
- Declared performance:

| Essential characteristics                      | Performance                    |
|--|--------------------------------|
| External fire performance                      | F <sub>ROOF</sub> (NPD)        |
| Reaction to fire                               | B, s1, do                      |
| 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 (safe breakability) as:     |                                |
| - Small hard body impact resistance            | Pass                           |
| - Large soft body impact resistance (assembly) | Pass                           |

|  |            |  |         |              |
|--|------------|--|---------|--------------|
| (deformation behaviour)                  |            | $B_x = 475 \text{ Nm}^2/\text{m}$<br>$B_y = 140 \text{ Nm}^2/\text{m}$<br>$S_y = 20270 \text{ N/m}$<br>$M_b = 48 \text{ Nm/m}$ |         |              |
| Direct airborne sound insulation         |            | $R = \text{NPD}$   |         |              |
| Thermal transmittance                    |            | $U = 1,40 \text{ W/m}^2\cdot\text{K}$  |         |              |
| Light transmittance                      |            | $\tau_v$   |         |              |
| Total solar energy transmittance         |            | $g$  |         |              |
| Solar direct transmittance               |            | $\tau_e$   |         |              |
|  | Colour     | $\tau_v$ (%)   | $g$ (%) | $\tau_e$ (%) |
|  | Clear      | 51   | 52      | 49           |
|  | Opal White | 44   | 47      | 42           |
|  | Bronze     | 25   | 39      | 28           |
| Resistance to fixings                    |            | Method of fixing<br>(see manufacturer's datasheet)   |         |              |
| Durability, as variation (after ageing): |            |  |         |              |
| - of yellowness index                    |            | 2 ( $\Delta A$ ) clear<br>5 ( $\Delta A$ ) coloured  |         |              |
| - of the light transmittance             |            | 2 % ( $\Delta A$ )   |         |              |
| - 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, 29-12-2016

## CONTACT US:

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