

DECLARATION OF PERFORMANCE

LEXAN™ EXELL™ D SHEET
3-8mm gauge colors WH4D348O & WH7D287O

1.
Element allowing identification of the construction product:
EXELLD

2.
Intended use:
For internal and external use in roofs, walls, and ceilings.

3.
Manufacturer:
F&S B.V.
Plasticslaan 1
4612 PX Bergen op Zoom
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 16240: 2013 Light transmitting flat solid polycarbonate (PC) sheets for internal and external use in roofs, walls.

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7.

Element allowing identification of the construction product:

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)				NPD					
Direct airborne sound insulation				3mm	NPD		6mm	R= 29dB	
				4mm	R= 27dB		8mm	R= 30.5dB	
				5mm	R= 28dB				
Thermal transmittance				NPD					
Light transmittance				τ _v					
Color - τ _v (%)	3mm	4mm	5mm	6mm	8mm	9.5mm	12mm	15mm	
WH4D348O	27	26	26	23	19	n/a	n/a	n/a	
WH7D287O	50	50	50	47	47	n/a	n/a	n/a	
Resistance to fixings				Method of fixing (see manufacturer's datasheet)					
Durability, as variation (after ageing):									
- of yellowness index				NPD					
- of the light transmittance				NPD					
- of deformation flexural modulus				NPD					
-of tensile strength				NPD					

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, 01-07-2024



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