

DECLARATION OF PERFORMANCE

Place and Date of Issue: Turkiye, March 2023

1. Identification code of the product type	SOLSTICE POLYCARBONATE SOLID SHEET
2. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer	Internal and external wall and ceiling finishes
3. Name and address of the manufacturer	Radmat Building Products Ltd Holland House, Valley Way, Rockingham Road, Market Harborough, LE16 7PS Tel: +44 (0) 01858 412109
4. Name and address of the authorized representative	Radmat (Ireland) Ltd 3 Inns Quay, Dublin 7, Ireland Tel: +44 (0) 01858 412109
5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V	System 3
6a. Harmonised standard: Notified body/ies:	EN 16240:2013 EFECTIS ERA-23-181
6b. European Assessment Document: European Technical Assessment: Technical Assessment Body	EN 13823:2020+A1:2022 EN ISO 11925-2:2020
7. Declared Performance	
Essential Characteristics	Performance
External fire performance (EN 13501-5)	NPD
Reaction to fire (EN 13501-1)	B S1 d 0
Resistance to fire (EN 13501-2)	NPD
Water vapour permeability (EN ISO 12572)	$3,8 \cdot 10^{-5}$ mg/m h.Pa
Water/air permeability	PASS
Release of dangerous substances	NPD
Dimensional tolerances	Thickness: +5 % equal to 2mm and up or equal to 5mm. / $\pm 10\%$ greater than 5mm Length / Width: 0 % to +0,30 % of the declared sheet length/width.
Shatter properties (safe breakability) as:	
-Small hard body impact resistance	PASS
-Large body impact resistance (assembly)	NPD
Mechanical resistance	$E_{f,mean} = 2200$ N/mm ² $E_{f,charac} = 2000$ N/mm ² $\sigma_M, mean = 60$ MPa $\sigma_M,charac = 55$ MPa
Direct airborne sound insulation	--
Resistance to fixings	Method of fixing <i>(see manufacturer's datasheet)</i>
Durability, as variation (after ageing)	NPD

7. Declared Performance-Continuation

	Thickness (mm)									
	1	2	3	4	5	6	8	10	12	15
Thermal Transmittance (W/m ² K)	5,75	5,55	5,40	5,26	5,12	5,00	4,77	4,54	4,34	4,08
Light Transmittance (T _v -----%)	88,30	87,10	87,00	86,20	86,00	85,60	84,80	84,00	81,30	79,00
Total Solar Energy Transmittance (T _e -----%)	80,40	78,60	78,20	76,90	76,50	76,00	75,00	74,00	72,20	71,90
(g-----%)	85,00	83,60	83,30	82,30	82,10	81,70	81,00	80,20	78,80	77,60

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