RAVATHERM™ XPS

DECLARATION OF PERFORMANCE

Number: 700040

1. Unique identification code of the product-type: **RAVATHERM XPS 300 WB** 30mm = d 40 mm ≤ d ≤ 60 mm 60 mm < d ≤ 80 mm 80 mm < d	 XPS - EN13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)0.7 - TR400 XPS - EN13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)0.7-WD(V) 3 -TR400 XPS - EN13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)0.7-WD(V) 2 -TR400 XPS - EN13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)0.7-WD(V)1 -TR200
2. Intended use/es:	Thermal Insulation for Buildings (ThIB)
3. Manufacturer:	**Ravago Building Solutions S.A.** 2146 Luxembourg, 76-78 Rue de Merl
4. Authorized representative:	-
5. System/s of AVCP:	3. System
6a. Harmonised standard: Notified body/ies:	EN 13164:2012+A1:2015 FIW (0751) ÉMI (1415) OFI (1085)

7. Declared performance/s:

Essential characteristic		**Symbol**	**Performance**
Thermal conductivity			
30 – 80 mm		λ_d	0,033 (W/mK)
100 – 120 mm		λ_d	0,034 (W/mK)
140 – 220 mm		λ_d	0,035 (W/mK)
Thermal resistance		R_d	*
Dimensional tolerances		T	T3
Compressive strength		CS(10\Y)	300 (kPa)
Tensile strength perpendicular to faces	30 - 80 mm	TR	400 (kPa)
	100 - 220 mm		200 (kPa)
Reaction to fire		RtF	E
Continuous glowing combustion			NPD
Long term water absorption by total immersion		WL(T)	0,7 (≤ 0,7 Vol.%)
Long term water absorption by diffusion	40 - 60 mm	WD(V)	3 (≤ 3 Vol.%)
	80 mm		2 (≤ 2 Vol.%)
	100 – 220 mm		1 (≤ 1 Vol.%)
Water vapor diffusion resistance factor		MU	NPD
Durability of compressive strength against (compressive creep)		CC (2/1,5/50)	NPD
Durability of reaction to fire against heat, weathering, ageing/degradation		No change in reaction to fire properties for extruded polystyrene foam	
Durability of thermal resistance against heat, weathering, ageing/degradation			
Thermal resistance and thermal conductivity		see above R_d and λ_d	
Freeze/thaw resistance after long term water absorption by diffusion		FTCD	NPD
Freeze/thaw resistance after long term water absorption by total immersion		FTCI	NPD
Dimensional stability under specified temperature and humidity conditions		DS	(70,90)
Deformation under specified compressive load and temperature conditions		DLT	NPD
Release of dangerous substances to the indoor environment			NPD

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* Thermal resistance (R_d)	R_d (m^2K/W)	Thermal resistance (R_d)	R_d (m^2K/W)	Thermal resistance (R_d)	R_d (m^2K/W)
30 mm	0,90	100 mm	2,90	180 mm	5,10
40 mm	1,20	120 mm	3,50	200 mm	5,70
50 mm	1,50	140 mm	4,00	220 mm	6,25
60 mm	1,80	150 mm	4,25		
80 mm	2,40	160 mm	4,55		

The performance of the product identified above is in conformity with the set of declared performance/s. 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:	Place and date of issue:	Sign:
Patrick Cabuy, Business Director	2146 Luxembourg, 2022.02.01.	

NPD – No Performance Determined