

Declaration of Performance



No. 32WBWPF20021

1. Unique identification code of the product type

URSA Pure Floc

2. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer

EN 14064-1:2010

Thermal insulation products for buildings

In-situ formed loose-fill mineral wool (MW) products – Blowing wool

3. Name, registered trade name or registered trade mark and contact address of manufacturer

URSA Pure Floc

URSA BENELUX BVBA, Industriezone 7- Pitantiestraat 127, B- 8792 Desselgem, Belgien

4. System or systems of assessment and verification of constancy of performance of the construction product

a. According EN14064-1:2010

System 4 for reaction to fire

System 3 for all other declared characteristics

b. According ETA-18/0889 of 01/01/2019

System 4 for fire safety (BWR 2)

System 3 for all other declared characteristics

5. Name and identification number of the notified body

MPA NRW (NB 0432)

Warringtonfire Frankfurt (NB 1378)

6. Declared Performance
a) According EN14064-1:2010

Essential characteristics			Performance		Harmonised technical specifications
			Loft insulation	Frame insulation	
Reaction to fire Euroclass characteristics	Reaction to fire	Euroclass	A1	A1	EN 14064-1:2010
Water permeability	Water absorption	WS	NPD	NPD	
Release of dangerous substances into indoor	Release of dangerous substances		NPD	NPD	
Thermal resistance	Thermal conductivity	Declared thermal conductivity λ_D [W/m*K]	0,036	0,034	
	Thickness of insulation	[mm]	Table 1	Table 2	
	Thermal resistance	Declared thermal resistance R_D [m ² *K/W]	Table 1	Table 2	
Water vapour permeability	Water vapour transmission		MU1	MU1	
Durability of reaction to fire related to aging/ degradation	The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic content, which cannot increase with time.				
Durability of thermal resistance against ageing/degradation	The thermal conductivity of mineral wool does not change with time, experience has shown the fibre structure to be stable and the porosity contains atmospheric air.	Thermal resistance and thermal conductivity	Table 1	Table 2	
		settlement	S3	S1	

NPD= No Performance Determined

b) According ETA-18/0889 of 01/01/19

Essential Characteristic	Performance	
Thermal conductivity at mean reference temperature at 10°C. Test acc. to EN12667:2001 in accordance with EN14064-1:2010	Declared value for a moisture content of the insulation material at 23°C and 50% relative humidity ¹ Pure Floc: $\lambda_{D(23,50)} = 0,036 \text{ W}/(\text{m} \cdot \text{K})^2$ $\lambda_{D(23,50)} = 0,034 \text{ W}/(\text{m} \cdot \text{K})^3$ Pure Floc KD: $\lambda_{D(23,50)} = 0,034 \text{ W}/(\text{m} \cdot \text{K})$	ETA-18/0889
Conversion of humidity acc. To EN ISO 10456:2007+AC:2009, moisture conversion factor (23°C/50% rel. humidity to 23°C/80% rel.humidity)	$F_m = 1,00$	
Short term water absorption ("Pure Floc KD")	$W_p \leq 1,0 \text{ kg}/\text{m}^3$ (WS acc. To EN14064-1)	
Long term water absorption	No performance assessed	
Bulk density		
In case of free placing (exposed insulation) ("Pure Floc")	20 kg/m ³ to 25 kg/m ³	
In case of use in closed cavities (space-filling) ("Pure Floc")	30 kg/m ³ to 40 kg/m ³	
In case of use as core insulation ("Pure Floc KD")	30 kg/m ³ to 40 kg/m ³	
Water repellency ("Pure Floc KD") Water absorption after 4h Water absorption after 28d	0,5 kg/m ² 1,0 kg/m ²	
Water vapour diffusion resistance coefficient	$\mu = 1$	
Settlement		
Settling under impact excitation in the case of free placing (e.g. on the ceiling or between beams)	$\leq 10 \%$ at a minimum bulk density of 20 kg/m ² and a maximum thickness of 330 mm	
Settling under vibration in wall cavity and between beams	SC 0 acc. To EN15101-1:2013 at a minimum bulk density of 30 kg/m ² and a maximum thickness of 240 mm	
Settling under defined climatic conditions	No performance assessed	
Airflow resistance ⁴ Test acc. To EN29053:1993, Method A	$\geq 10,0 \text{ kPa} \cdot \text{s}/\text{m}^2$ at a minimum bulk density of 20 kg/m ³ $\geq 20,0 \text{ kPa} \cdot \text{s}/\text{m}^2$ at a minimum bulk density of 30 kg/m ³	

¹ The declared value is representative for at least 90% of the production with a confidence level of 90% and applies of the above named density range. For admissible deviation of an individual value of the thermal conductivity from the declared value the method described in EN 13172:2012, annex F, applies

² Exposed insulation, density range: 20kg/m³ to 25kg/m³

³ Space-filling insulation, density range: 30kg/m³ to 40kg/m³

⁴ Also relevant in terms of protection against noise

7. 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.

8. Signed for and on behalf of the manufacturer by: Koen Slos, Director General

Desselgem, 01/03/2021

Table 1 : Loose-filling thermal insulation material (eg loft insulation)				
Bulk density 20-25 kg/m³				
Cavity width (mm)	Minimum installation thickness (mm)	thermal resistance RD (m ² K)/W	Minimum surface weight (kg/m ²)	minimum pack usage (bags per 100 m ²)
100	111	2,75	2,0	12,0
110	123	3,05	2,2	13,3
120	134	3,30	2,4	14,5
130	145	3,60	2,6	15,7
140	156	3,85	2,8	16,9
150	167	4,15	3,0	18,1
160	178	4,40	3,2	19,3
170	189	4,70	3,4	20,5
180	200	5,00	3,6	21,7
190	211	5,25	3,8	22,9
200	222	5,55	4,0	24,1
220	245	6,10	4,4	26,5
240	267	6,65	4,8	28,9
260	289	7,20	5,2	31,3
280	311	7,75	5,6	33,7
300	333	8,30	6,0	36,1
320	356	8,85	6,4	38,6
340	378	9,40	6,8	41,0

Table 2: Space-filling thermal insulation material (eg Timber Frame, pitched roof) Bulk density 30-40 kg/m³		
Cavity width (mm)	thermal resistance R _D (m ² K)/W	minimum pack usage (bags per 100 m ²)
60	1,75	10,8
80	2,35	14,5
100	2,90	18,1
120	3,50	21,7
140	4,10	25,3
160	4,70	28,9
180	5,25	32,5
200	5,85	36,1
220	6,45	39,8
240	7,05	43,4
260	7,65	47,0
280	8,20	50,6
300	8,80	54,2
320	9,40	57,8
340	10,00	61,4
360	10,55	65,1
380	11,15	68,7
400	11,75	72,3