EKOLUTION

DECLARATION OF PERFORMANCE

No. EU2018/01

1. Unique identification code of the product-type:

Thermal and acoustic insulation based on natural fibres – Ekolution AB

2. Intended use/es:

The product is determined for use in buildings as insulation of walls, ceilings, floors, roofs, between rafters and wooden beams. Assessment of this insulation product applies only to product with use in construction sites that is not exposed to rainfall, moisture or weathering, and in structural members without contact with water or soil, or in buildings where there is no exceedance of critical moisture content. Products must be installed in accordance with the manufacturer's instructions. The application of this insulation product must comply with national regulations.

3. Manufacturer/Manufacturing plant

Manufacturer Ekolution AB Västanväg 24542 Staffanstorp Manufacturing Plant Ekolution MP 1

4. System of assessment and verification of constancy of performance, AVCP:

System 3

5. European Assessment Document:

This European Technical Assessment is issued in accordance with regulation (EU) No. 305/2011, on the basis of EAD 040005-00-1201 "Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres" June 2015

6. European Technical Assessment

European Technical Assessment 16/0803 of 05/01/2017

Notified body:

Centre of Building Construction Engineering, Joint Stock Company

7. Declared performance/s:

	Reaction to fire		Classification Report
	(EN 13501-1+A1)	Class D-s1, d0	No. PK-16-002
Bas	sic Works Requirement 3: Hygiene, health Biological resistance (Growth of mould fungus)		
	Biological resistance (Growth of mould fungus)	There is no intensity of fur	

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8	Sound absorption		Test Report
	(EN ISO 354, EN ISO 11654)	Product thickness 100 mm	Č. 15/086/A036
	 Sound absorption coefficient α_s 	Frequency α_s α_p [Hz]	
	- Practical sound absorption coefficient α_p	125 0,40 0,35	
		250 0,65 0,60	
		500 0,82 0,80	
		1000 0,81 0,85	
		2000 0,89 0,90	
		4000 1,03 1,00	
	- Weighted sound absorption coefficient α _w		_
	- Class sound absorption B	Thickness α _w	
	'	[mm] [-]	
		100 0,85 (H)	
Rac	sic Works Requirement 6: Energy economy an	d heat retention (RWR 6)	
9	Thermal conductivity		
	(EN 12667, EN ISO 10456)		Test Report
	λ10,dry,90/90 Category 1 (comes from λ10,dry,90/90)	0.0432 W/m.K	č. 15/1164/T064-A
	λD,(23,50) Category 1 (comes from λ10,dry,90/90)	0,0442 W/m.K	0. 20, 220 1, 100 1 11
	λ10,dry,limit Category 2 (comes from λ10,dry,limit)	0,0427 W/m.K	
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	λD,(23,50) Category 2 (comes from λ10,dry,limit)	0,0437 W/m.K	
	λ10,dry,90/90	0,0432 W/m.K	
	λ10,dry,mean	0,0417 W/m.K	
	λ23,50	0,0427 W/m.K	
	λ23,80	0,0503 W/m.K	
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	Moisture content	Moisture content	
	u23,50	0,055 kg/kg	
	u23,80	0,141 kg/kg	
	Transitive coefficient	Transitive coefficient	
	fu,1	0,4238	
	fu,2	1,8906	
10	Water vapour diffusion resistance μ		Test Report
	(EN 12086)	2.294	Č. 15/1164/T064-A
11	Water absorption		Test Report
	(EN 1609, method A)	1.51 kg/m ²	Č. 15/1164/T064-A
13	Density		Test Report
	(EN 1602)	$(32,0 \pm 0,4) \text{ kg/m}^3$	č. 15/1164/T064-A

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:

At Malmö, Sweden

on 18th of April 2019

Signature

Name Naib Woldemariam

Role Chief Technical Officer, CTO