

DECLARATION OF PERFORMANCE

202X0050 / 202X0051 / 202X0052 / 202X0053 / 202X0054

1. Unique identification code of the product-type:

LIGNATUR easy 110 with insulation
LIGNATUR easy 150 without insulation
LIGNATUR easy 150 with insulation
LIGNATUR easy 190 without insulation
LIGNATUR easy 190 with insulation

2. Intended use:

As load bearing or non load bearing elements in floors and roofs

3. Manufacturer:

Lignatur AG
Herisauerstrasse 30
CH-9104 Waldstatt
Schweiz

4. Authorised representative:

N/A

5. System of assessment and verification of constancy of performance:

1

6. European Assessment Document:

Guideline for European Technical Assessment EAD 140022-00-0304 “Pre-fabricated wood-based loadbearing stressed Skin Panels”, edition November 2018, used as European Assessment Document (EAD) pursuant to article 66, para. 3 of Regulation (EU) No. 305/2011

European Technical Assessment:

ETA-11/0137 of 27.08.2025

Technical Assessment Body:

Österreichisches Institut für Bautechnik, Schenkenstraße 4, 1010 Wien, Österreich

Notified Body:

0672

7. Declared performance:

Essential characteristics	Performance
Load bearing capacity	Bending resistance $R_{m,y,k}$ for easy 110 = 42.7 kNm/m ¹ for easy 150 = 70.5 kNm/m ¹ for easy 190 = 102.2 kNm/m ¹ and shear resistance $R_{v,z,k}$ for easy 110 = 45 kN/m ¹ for easy 150 = 63 kN/m ¹ for easy 190 = 80 kN/m ¹ in accordance with ETA-11/0137 and overview-of-formulas.lignatur.ch

Essential characteristics	Performance
Serviceability	Moment of inertia I_y for easy 110 = $97.8 \text{ mm}^4/\text{m}^1 * 10^6$ for easy 150 = $220.4 \text{ mm}^4/\text{m}^1 * 10^6$ for easy 190 = $404.7 \text{ mm}^4/\text{m}^1 * 10^6$ and E-value $E_{0,\text{mean}} = 11'000 \text{ N/mm}^2$ in accordance with ETA-11/0137 and overview-of-formulas.lignatur.ch
Moisture content	10 +/- 2%
Reaction to fire	D-s1, d0
Resistance to fire	Bending resistance $R_{m,y,k,fi}$ for easy 110 with insulation = 11.1 kNm/m^1 for easy 150 with insulation = 25.3 kNm/m^1 for easy 190 with insulation = 44.9 kNm/m^1 and shear resistance $R_{v,z,k,fi}$ for easy 110 with insulation = 36 kN/m^1 for easy 150 with insulation = 55 kN/m^1 for easy 190 with insulation = 75 kN/m^1
Water vapour permeability and moisture resistance	$\mu = 20 - 50$
Water tightness	NPD
Release of dangerous substances	Formaldehyde emission: E1
Slipperiness of floors	NPD
Impact resistance	Satisfactory
Airbourne sound insulation	NPD
Impact sound insulation	NPD
Sound absorption	NPD
Thermal resistance	Spruce: $\alpha = 0,130 \text{ W}/(\text{m}^2*\text{K})$
Air permeability	Satisfactory
Thermal inertia	Spruce: $\lambda = 0,13 \text{ W}/(\text{m}*\text{K})$ $\rho = 350 \text{ kg/m}^3$ $c_p = 1\,600 \text{ J}/(\text{kg}*\text{K})$

8. Appropriate Technical Documentation and/or Specific Technical Documentation:

N/A

The performance of the product identified above is in conformity with the set of declared performances. 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:

Ruedi Jud, Michael Rammo

names

Waldstatt, 01.10.25

place, date of issue



signatures