



Lempaboard is a floor panel made of OSB/3 (without added formaldehyde) and a fibreboard. The insulating panel is made of fine wood fibre: pine, mixed with water, and completely dried in a drying kiln.

The end result is a hard-wearing panel with soundproofing as well as thermal properties.

APPLICATION

Acoustic floors and subfloors

CHARACTERISTICS

Dimensions	590x2440mm
Edge finishing	Tongue-and-groove/4-sided
Bonding	PVAc (white wood glue)

Benefits of LEMPABOARD :

- Ideal for the renovation of (attic) floors.
- Increased soundproofing for impact and foot-step noise.
- Lightweight.
- Easy installation.
- Easy to saw.
- Moisture-resistant and dimensionally stable top layer.

FORMATS

Total thickness	R _D OSB/3 + fibreboard (m ² K/W)	Thickness OSB/3	Thickness of fibreboard	Panels per pallet	m ² per pallet	Weight (kg/ piece)
28mm	0.34	18	10	60	86.38	21
38mm	0.52	18	20	50	71.98	25



MECHANICAL AND BUILDING PHYSICS PROPERTIES

	Testing method	OSB/3	Testing method	Fibreboard
Density	EN 323	$\geq 600 \text{ kg/m}^3$	EN 323	230 kg/m^3
Density tolerance	EN 323	$\pm 15 \text{ kg/m}^3$		$\pm 20 \text{ kg/m}^3$
Bending strength (MOR) - longitudinal direction	EN 310	$\geq 18 \text{ N/mm}^2$	EN 310	0.9 N/mm^2
Bending strength (MOR) - transverse direction	EN 310	$\geq 9 \text{ N/mm}^2$	EN 310	0.9 N/mm^2
Modus of elasticity (MOE) - longitudinal direction	EN 310	$\geq 3500 \text{ N/mm}^2$		n/a
Modus of elasticity (MOE) - transverse direction	EN 310	$\geq 1400 \text{ N/mm}^2$		n/a
Internal bonding	EN 319	$\geq 0.30 \text{ N/mm}^2$		n/a n/a
Internal bonding (after boil test)	EN 1087-1	$\geq 0.12 \text{ N/mm}^2$		n/a
Thickness swelling (24 hours)	EN 317	$\leq 15 \%$	EN 317	10 $\%$
Formaldehyde emission (perforator test)	EN 120	E1 $\text{mg}/100\text{g}$	EN 13986	E1 $\text{mg}/100\text{g}$
Moisture content (ex-works)	EN 322	2-12 $\%$	EN 622-1	4-9 $\%$
Airborne sound insulation	EN 13986	27.4 dB (18mm; frequencies 1-3 kHz)		n/a
Sound absorption coefficient	EN 13986	0.10 (frequency 250-500 Hz) 0.25 (frequencies 1000-2000 Hz)		n/a n/a
Vapour diffusion resistance μ	EN 13986	30 (wet) - 50 (dry)		n/a
Heat conduction coefficient λ	EN 13986	0.13 $\text{W}/(\text{mK})$	EN 13986	0.05 $\text{W}/(\text{mK})$
Specific heat capacity C	EN 12524	1700 $\text{J}/(\text{kgK})$	EN ISO 10456	2100 $\text{J}/(\text{kgK})$
Reaction to fire classification (Euroclass)	EN 13986	D-s2,d0	EN 13501-1	E
Pressure strength			EN 826	100 kPa

n/a = not applicable
 All changes reserved