LUBAD PANELS

High-density PET acoustic felt boards · 1220 × 2440 mm · 9, 12 and 24 mm

Lubad Panels are solid boards of high-density polyester felt, made with 60% recycled PET from post-consumer bottles. They absorb sound to reduce echo inside a room, on walls, ceilings, dividers and custom pieces. Lubad cuts the boards into its own designs or supplies them as full sheets.

BOARD	THICKNESS	SOUND ABSORPTION	REACTION TO FIRE
1220 × 2440	**9 · 12 · 24**	**NRC 0.30–0.60**	**B-s1, d0**
mm · ± 2 mm	mm · single solid board	EN ISO 354 · by thickness	EN 13501-1 · 9 and 12 mm

TESTED TO INTERNATIONAL STANDARDS

Independent laboratory tests and certification · details on page 2

REACTION TO FIRE	SURFACE BURNING	SOUND ABSORPTION	RECYCLED PET	FORMALDEHYDE	MATERIAL HEALTH
B-s1, d0	**Class A**	**NRC 0.30–0.60**	**60%**	**Not detected**	**Class I**
EN 13501-1 · 9 & 12 mm	ASTM E84 · 12 mm	EN ISO 354 · by thickness	EPD · EN 15804	EN 717-1 · class E1	OEKO-TEX® STANDARD 100

CERTIFIED MATERIAL

Lubad Panels are made from certified board. Certificates and the EPD are available for projects on request.

OEKO-TEX® STANDARD 100
Product class I · valid to Sep 2027

EPD® THE INTERNATIONAL EPD® SYSTEM
Environmental Product Declaration
ISO 14025 · EN 15804+A2 · valid to Jun 2030

DATA BY THICKNESS

THICKNESS	TOLERANCE	WEIGHT	DENSITY	NRC (EN ISO 354)	EN 13501-1	ASTM E84
9 mm	± 5%	1.9 kg/m²	211 kg/m³	**0.30**	B-s1, d0	On request
12 mm	± 5%	2.4 kg/m²	200 kg/m³	**0.40**	B-s1, d0	Class A
24 mm	± 1 mm	4.0 kg/m²	167 kg/m³	**0.60**	On request	On request

NRC measured without an air gap; the same for every colour. Weight is nominal. “On request”: no test result yet for that thickness; ask Lubad for the current status.

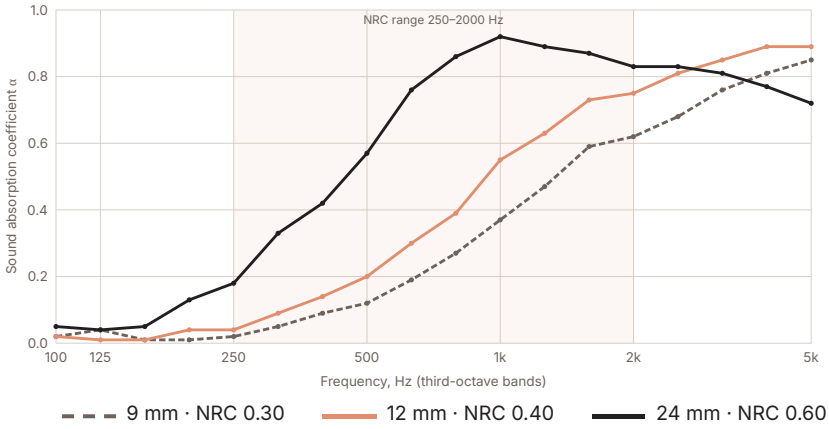
PRODUCT DATA

Material	100% polyester (PET) fibre, non-woven
Board size	1220 × 2440 mm (± 2 mm)
Thicknesses	9, 12, 24 mm; 24 mm is one solid board
Colours	63 Lubad colours (LD codes)
Appearance	Non-woven, directional grain; slight shade variation between batches
Recyclability	100% polyester, recyclable

FEATURES

- Reduces echo and reverberation
- Pinnable and impact resistant
- Easy to cut, groove and shape
- Light, easy to handle and install
- Same performance in every colour

SOUND ABSORPTION · EN ISO 354, REVERBERATION ROOM, NO AIR GAP



NRC is the average absorption coefficient at 250, 500, 1000 and 2000 Hz (highlighted), rounded to 0.05. NRC 0.40 means about 40% of the sound energy reaching the panel is absorbed. Thicker boards absorb more, especially at lower frequencies.

More absorption with an air gap. Panels mounted off the wall absorb more, mainly at low and mid frequencies. Manufacturer data: 24 mm with a 50 mm air gap, NRC 0.80. A test of 12 mm with an air gap is in progress.

Hz	9 mm	12 mm	24 mm
100	0.02	0.02	0.05
125	0.04	0.01	0.04
160	0.01	0.01	0.05
200	0.01	0.04	0.13
250	**0.02**	**0.04**	**0.18**
315	0.05	0.09	0.33
400	0.09	0.14	0.42
500	**0.12**	**0.20**	**0.57**
630	0.19	0.30	0.76
800	0.27	0.39	0.86
1000	**0.37**	**0.55**	**0.92**
1250	0.47	0.63	0.89
1600	0.59	0.73	0.87
2000	**0.62**	**0.75**	**0.83**
2500	0.68	0.81	0.83
3150	0.76	0.85	0.81
4000	0.81	0.89	0.77
5000	0.85	0.89	0.72
NRC	**0.30**	**0.40**	**0.60**
Source	Laboratory test	Manufacturer data	Manufacturer data

Absorption is not insulation. Lubad Panels control echo inside a room. They do not stop sound passing between rooms; for that, use a sound insulation system (rated in STC or Rw).

REACTION TO FIRE

B-s1, d0 · 9 mm and 12 mm — EN 13501-1:2018

Class A · flame spread index 5, smoke developed index 170 · 12 mm — ASTM E84

24 mm: results on request

B: limited contribution to fire · s1: very low smoke · d0: no flaming droplets. Check local authority requirements for each project.

MATERIAL HEALTH AND ENVIRONMENT

60% recycled PET from post-consumer bottles — EPD, EN 15804

Formaldehyde emission not detected; meets class E1 — EN 717-1

Tested for harmful substances, product class I — OEKO-TEX® STANDARD 100

Environmental Product Declaration available for projects — ISO 14025, EN 15804

Supporting documents are available for projects on request.

INSTALLATION

Fix with construction adhesive and/or mechanical fasteners to suit the substrate (fixings by the installer). The substrate must be flat, clean and dry.

Near fire-protection systems (sprinklers, alarms), follow the relevant building codes and design rules, and consult the project engineer or a fire-protection engineer.

SAMPLES, QUOTATIONS AND TECHNICAL SUPPORT

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Quotations and samples
lubad.co/pages/request-a-quotation

Values are for Lubad high-density PET felt at the thickness shown, tested to the standards stated or as indicated as manufacturer data. Results relate to the tested samples; performance in a building depends on the room and the installation. Lubad may update this information; check lubad.co for the current version. Supersedes the earlier “Noise Absorbing Panels” data sheet. © Lubad 2026.