

Technical file | Aluminum mattress



Green characteristics:

- Green Features:
- Contains no volatile substances (VOC A+);
- Awarded the Blue Angel ecological label ("The German Ecolabel");
- Free from plasticizers, asbestos, formaldehyde, halogens, and heavy metals;
- Solvent-free and does not contain substances that deplete the ozone layer;
- Made from natural raw materials that do not compete with food crops;
- Can be recycled and disposed of according to CER No. 170604.

■ TECHNICAL DATA

Nominal thickness:	1.8 mm
Reflected noise insulation (RWS):	23 Sone
Impact noise reduction:	$\Delta L_w = 18 \text{ dB}^*$
Compression resistance (CS):	300 kPa (0.5 mm di deformazione)
Creep compression resistance (CC):	> 50 kPa (max load with deformation <0.5 mm over 10 years)
Dynamic load resistance (DL):	> 100,000 cycles (at 25 kPa)
Impact resistance - large ball test:	< 600 mm
Thermal resistance:	$R_t = 0.01 \text{ m}^2\text{K/W}$
Equivalent air thickness:	$S_a = 150 \text{ m}$
Fire reaction class:	B_{fl-s1}^{**}
Volatile organic compound emissions:	VOC A+
CE marking:	n/a
Format:	Rolls of 1.0 m x 8.5 m (h x L) = 8.5 m ² After laying the sheets, it is recommended to seal them with aluminum tape.
Packed:	in cardboard boxes containing 40 rolls (340 m ²).



Warning for the Laying

■ SUBFLOOR PREPARATION

The surface where the aluminum underlay will be laid must be load-bearing, level, smooth, clean, and free of debris or oils. It is the installer's responsibility to assess the suitability of the surface before laying the sheets and proceeding with the floating installation of the parquet, performing preliminary checks:

- External window frames must be installed with their respective glass panes, and the flooring areas must be protected from weather exposure;
- Other flooring types must have already been installed;
- Walls, coatings, and sanitary fixtures must be completed;
- Room temperature must be $\geq 15^\circ\text{C}$;
- Ambient humidity must be between 45% and 60%;
- The subfloor conditions must be verified and deemed suitable for flooring installation;
- If a heated screed is present, the preheating cycle must have been completed.

■ SHEET LAYING

Lay the sheets with the aluminum side facing up (visible), carefully aligned without overlapping. Tape the sheets together using aluminum tape to ensure vapor barrier continuity. The sheets are easy and clean to cut; it is recommended to use a utility knife or cutter.

■ WOOD FLOORING INSTALLATION

The parquet must be installed under proper temperature and humidity conditions, strictly following the wood flooring installation regulations and in compliance with UNI 11265:2015.

Industry norms and standards establish that the installation environment must maintain:

- Relative Humidity (RH): 45%-60% max
- Temperature (T°C): $18^\circ\text{C} - 25^\circ\text{C}$
- Equilibrium Moisture Content of Wood: 7% $\pm 2\%$ as per UNI EN 13489:18
- Subfloor Moisture Content: <2% for standard subfloors, <1.7% for heated floors.

* Lab Test Report: CSI No. 0037\DC\ACU\13\2.

** Fire Resistance Test Report: Istituto Giordano No. 381306.