



# TECHNICAL DATA SHEET

## MEDITERRI™ HEMP FLEECE

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### 1. Definition and Description

Hemp Fleece or Felt is a non-woven felt made from the fibre of the industrial hemp plant and is a 100% natural product. It has many applications - in construction, but also in the automotive industry and in cultivating food crops. Hemp felt has unprecedented elasticity and impacts sound absorption. The moisture-regulating properties of hemp fibre give this material an exceptionally long service life. Hemp Felt is suitable for multiple purposes: as a sub-floor (levelling and soundproofing); as a felt underlay (if condensation is limited); for furniture and interiors (chairs, sofas, mattresses); as a natural fibre reinforcement (hot press moulding and vacuum injection bio-composites); and for crop cultivation (substrate mats and geotextiles). This material is a wonderful natural alternative to synthetic products and is suitable for all common building techniques. When hemp felt is used in 'vapour-permeable' timber-framed constructions, the unique qualities of this natural product become even more enhanced.

### 2. Characteristics and dimensions

Hemp mat thickness: Custom Thickness

- **Thickness:** 3mm x 1000mm x 25m, 5mm x 1000mm x 25m, 10 mm x 1000mm x 15m

### 3. Technical specifications

<b>Composition</b>	100% Hemp Fibre	
<b>Thermal Conductibility (A)</b>	0,047 W/mK	EN 12 667
<b>Fire Class</b>	Euroclass E	EN 13 501-1
<b>Density</b>	160- 180 kg/m <sup>3</sup>	EN 1602
<b>Thermal storage capacity (c)</b>	2200 – 2500 J/kgK	EN ISO 10456
<b>Vapour Diffusion resistance factor</b>	1,0	EN 12 086
<b>Dynamic Stiffness (s)</b>	84 (MN/m <sup>2</sup> )	EN 29052-1
<b>Air flow resistance</b>	6,0 kPa.s/m <sup>2</sup>	EN 29 053
<b>Mould Formation</b>	Class 0	
<b>Dimensional Tolerance</b>	+/-2% - Length +/-1,5% - Width +/-5% of 5mm max - Thickness	EN 822 EN 822 EN 823
<b>Impact sound insulation improvement</b>	19 dB 8 dB	EN-ISO 717-2