

High performance acoustic, thermal and fire insulation



## PROMAPHON® Pe

Sound absorption textile material,  
polyurethane free, with MED certification for  
low flame spread, minimal smoke, rot proof  
and non-toxic



### General Data

**PROMAPHON® Pe** is a latest generation sound absorption felt, with excellent acoustic performance at low density.

**PROMAPHON® Pe** is rot proof, mildew and bacteria resistant, non-allergenic, completely recyclable, environmental friendly, light and easy to handle. It can be supplied in different densities with different thermal and acoustic performances; furthermore, it can be self-adhesive and faced with technical and aesthetic coatings/cloths.

**PROMAPHON® Pe** can be safely and easily handled; when in contact with skin, it is not irritating. It is phenol and formaldehyde binder free.

### Advantages and main features

- ✓ Totally flexible
- ✓ Easy to handle, light
- ✓ Non-allergenic, non-toxic, environmentally friendly
- ✓ Different sound absorption properties are available, depending on the densities
- ✓ Phenol and formaldehyde binder free
- ✓ Excellent thermal insulation properties at low temperatures
- ✓ MED certified (low flame spread)
- ✓ Minimal smoke
- ✓ No change in performance over time
- ✓ Excellent vibration resistance
- ✓ Technical or aesthetic facings available
- ✓ It can be coupled with insulating masses within the PROMASOUND® range
- ✓ Possible densities available: 20kg/m<sup>3</sup>; 30kg/m<sup>3</sup>; 40kg/m<sup>3</sup>; 50kg/m<sup>3</sup>; 80kg/m<sup>3</sup>

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### Physical and Technical properties

Standard colour (other colours are available on demand, depending on minimum production quantities)	White
Nominal density	50kg/m <sup>3</sup> ± 5%; other densities are available (not MED certified)
Chemical composition	100% thermally-bound polyester fibre
Reaction to Fire DIR 96/98/EC as modified DIR 2009/26/EC	Certificate n° MED515710CS MED Item n° A.1/3.18a USCG category n° 164.112
Continuous working temperature	- 50 a 120°C
Melting point	250°C
Thermal insulation	0.034W/mk
Sound-absorption properties	ISO 10532 see page 3

### Standard dimension

Thickness [mm]	Length [mm]	Width [mm]
10-50	1000-2000	1000

### Dimensional Tolerances:

Thickness:	± 2mm
Length:	± 5mm
Width:	± 5mm

Special sizes, density and thicknesses are available on demand, depending on minimum order quantities.

### Self-adhesive version (not MED certified)

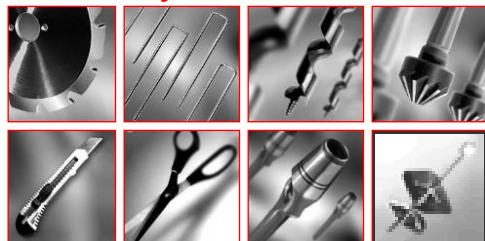
#### Adhesive properties:

Excellent adhesion performance on steel, aluminium and GRP surfaces.

#### Application

Remove the protective liner and lay down with even pressure, after removing dust, grease water or humidity from the surface to be insulated.

### Workability

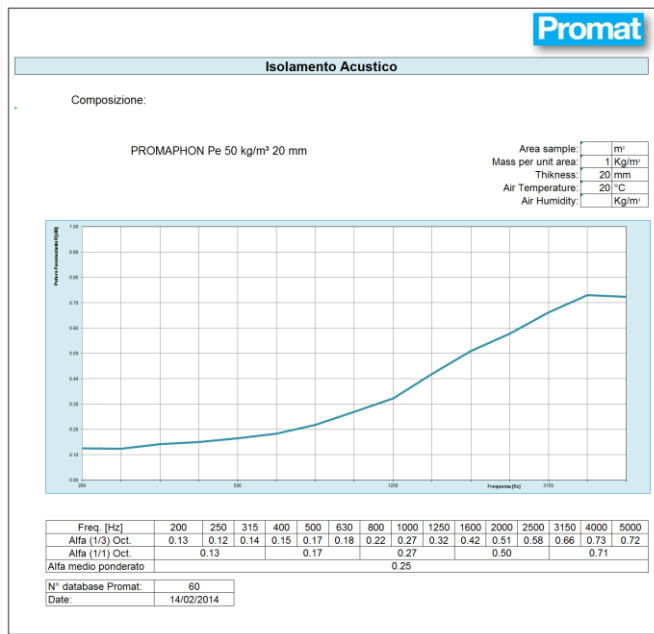


**PROMAPHON® Pe** is soft and flexible and can be easily cut by manual cutters, smooth and rotating plate saws. It can be easily installed and shaped onto the destination surface; it can be pre-cut as per drawing and supplied in self-adhesive version. It does not emit dust and it does not release fibres if subject to vibrations.

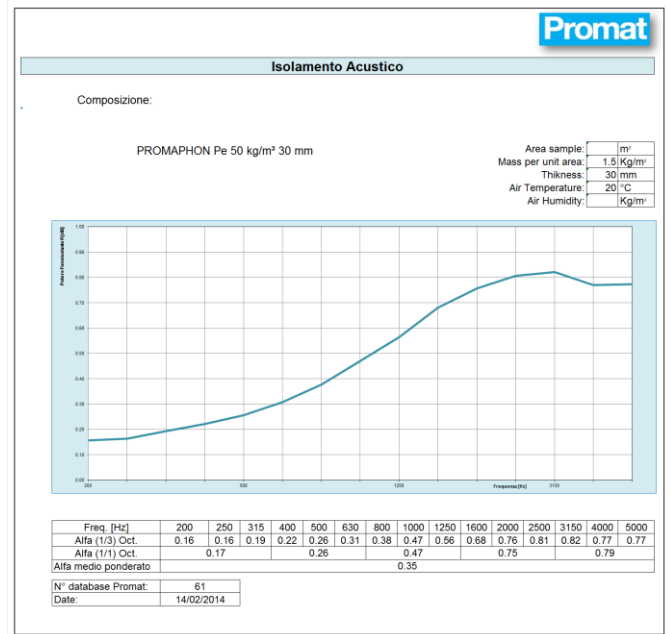
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### Sound acoustic performance

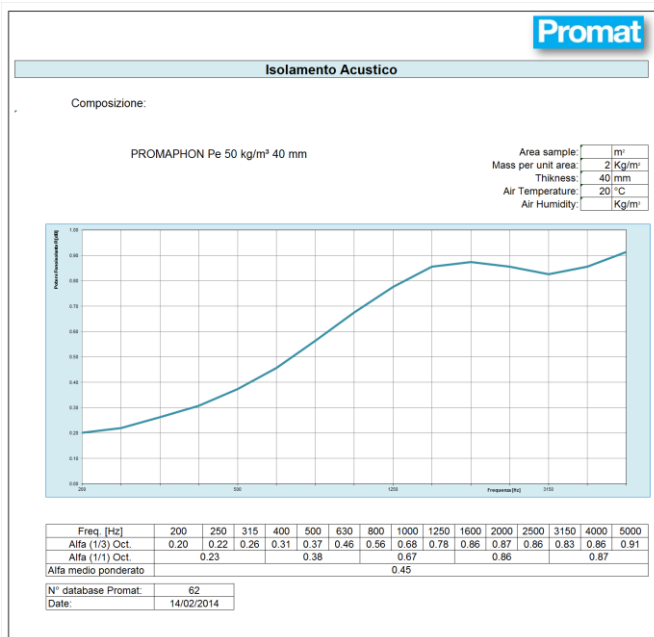
Acoustic absorption 20mm of PROMAPHON® Pe Density 50kg/m<sup>3</sup>



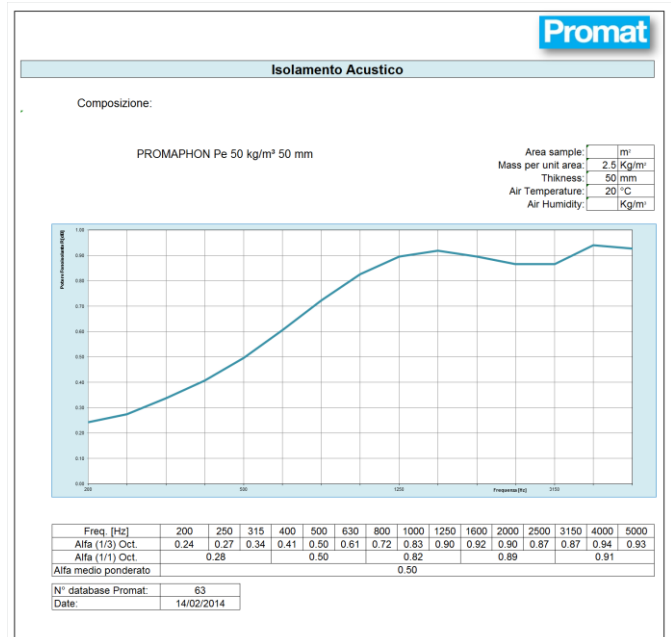
Acoustic absorption 30mm of PROMAPHON® Pe Density 50kg/m<sup>3</sup>



Acoustic absorption 40mm of PROMAPHON® Pe Density 50kg/m<sup>3</sup>

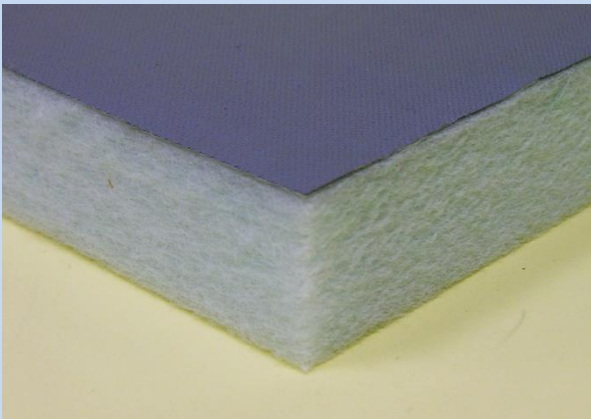
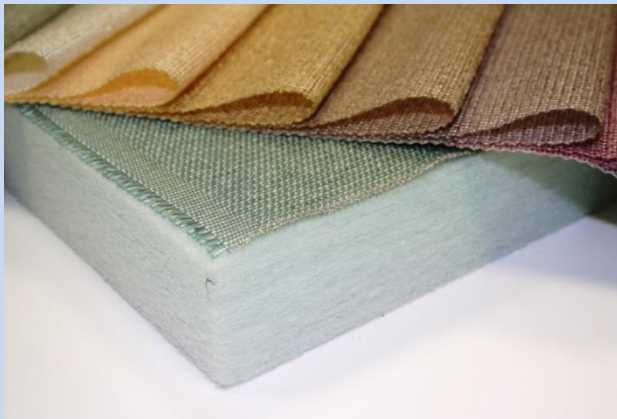

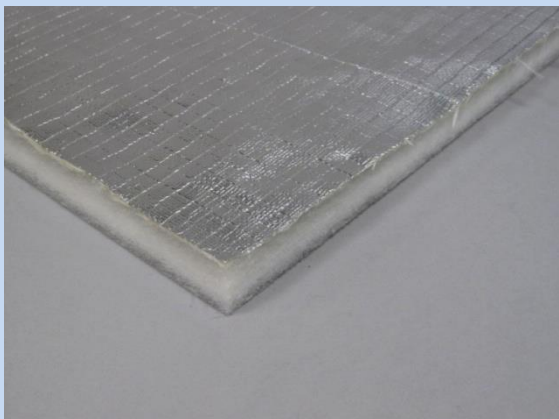
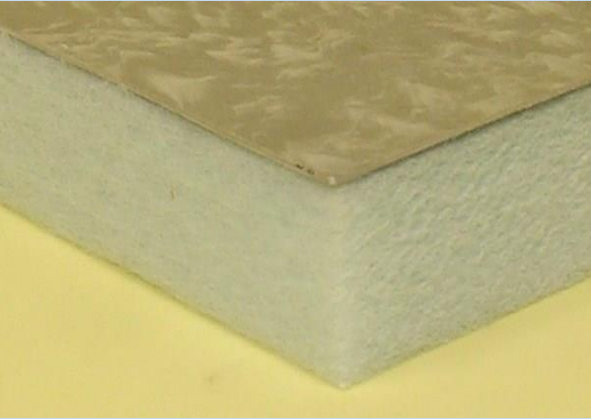



Acoustic absorption 50mm of PROMAPHON® Pe Density 50kg/m<sup>3</sup>



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### Different finishing versions (not MED certified)

<p><b>Facing with technical glass cloths (silicone coated and not) and aluminium foil</b></p>	<p><b>Aesthetic coloured glass cloths</b></p>
	
<p><b>Facing with glass cloth PROMAFLEX® GM 220g/m<sup>2</sup> – white or black</b></p>	<p><b>Facing with reinforced aluminium foil 670g/m<sup>2</sup></b></p>
	
<p><b>Coupling with sound insulation products from PROMASOUND® range</b></p>	<p><b>Coupling with sound insulation products of PROMASOUND® range and facing with technical glass cloth</b></p>
	

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