



INSULECO

Eco-innovative insulating thermal and acoustic  
panels made with recycled textile fibres

Insuleco Project  
Agreement n. ECO/13/630185

Co-founded by Eco-innovation  
Initiative of the European Union

#### Project Partners

- ✓ ETRA, Co-ordinator
- ✓ Isol-eco
- ✓ Comsa

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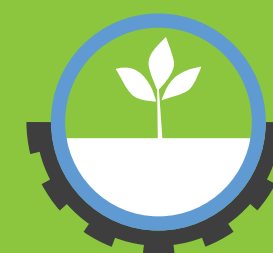
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## PANEL GAFI-500

High density thermal-acoustic insulation panel, made from 100% recycled textile fibres from tyres. We have created a fully recyclable material. It offers many application areas, to date not yet known to the principal acoustic products available on the market. GAFI 500 can be used in construction and industry thanks to its specific characteristics: high power insulation and sound absorption, thermal insulation, especially in summer heat, good mechanical resistance to compression and high transpiration.

### CAN BE PLACED:

-  In the wall (external or internal)
-  In light coverings, receives the welded bituminous sheaths
-  Double brick wall
-  In double sheet metal, drywall or wood
-  Under any type of flooring (civil, industrial, etc.)
-  Under the wall to eliminate thermal and acoustic bridging
-  On timber roofing: it is very breathable and tolerates humidity
-  In hoods of engines or noisy machinery
-  Mechanical resistance to compression: withstands high loads (0.46N/mm<sup>2</sup>)

### TECHNICAL DETAILS:

-  One of its kind, 100% RECYCLABLE, NO TOXIC POLLUTANTS
-  Density : 480kg/m<sup>3</sup>
-  Fire classification of construction products UNI EN 13501-1:2009: Euroclass E
-  Thermal conductivity according to standard UNI EN ISO 12667:2002  $\lambda$  0.063
-  Water vapour transmission rate according to standard UNI EN ISO 12086: 1999  $\delta$  0.13  $\pm$  0.02 with average spreading factor value of “ $\mu$  5.5”, Sd 0.16
-  Compressive strength according to standard UNI EN 1926:2007 0.46 N/mm<sup>2</sup>
-  Dynamic rigidity according to standard UNI EN 29052-1: 1993 S't = 45 MN/m<sup>3</sup>
-  Sound absorption according to standard UNI EN ISO 11654:1998  $\delta_w$  0.60







CONTEST WINNER 2013  
GREEN ECONOMY



## ETA-F150

Impact insulation made from recycled rubber granules, to be laid under floors. Can also be injected into cavity walls to prevent acoustic bridging.





### TECHNICAL DETAILS:

-  Composition: recycled rubber granules, hydraulic binders, acrylic polymers kg. 7.9 m<sup>2</sup>
-  Dynamic rigidity S'35 MN/m<sup>3</sup>
-   $\Delta L_{nw}$  = -26 dB according to standard EN ISO 717/2, 140/VI/VIII
-  Fire classification of construction products UNI EN 13501-1:2009: Euroclass A1

## ETA-F75

Impact insulation made from recycled rubber granules, which creates a connecting layer between old and new floors, laid with a thickness of 7mm under ceramic tiles, parquet and other floors...

### TECHNICAL DETAILS:

-  Composition: recycled rubber granules, hydraulic binders, acrylic polymers kg. 4.2 m<sup>2</sup>
-  Dynamic rigidity S'30 MN/m<sup>3</sup>
-   $\Delta L_{nw}$  = -12 dB according to standard EN ISO 717/2, 140/VI/VIII
-  Fire classification of construction products UNI EN 13501-1:2009: Euroclass A1

## LIFE CYCLE ASSESSMENT

Performed by the Polytechnic University of Milan in accordance with ISO standards 14040 and 14044. Our products are suitable for green building developments and environmental sustainability.