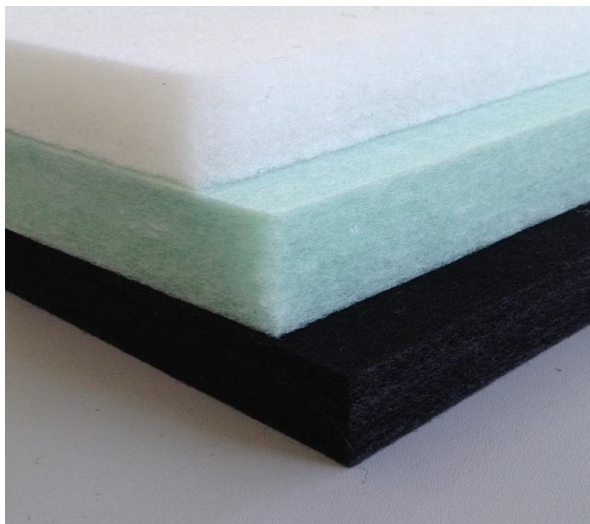


**PRODUCT DESCRIPTION AND APPLICATION**

ARCO WALL FIBER is an eco-friendly soundproofing obtained by recycling the polyester fiber. The product is rot-resistant, it is not water-soluble, and it is not irritating to skin contact, eyes and the respiratory system. The article keeps its technical performance over time. The product is applied in hollow space of double brick walls between different housing units.



Picture of the product

**GENERAL INFORMATION AND ADVICE**

The airborne wall insulation between different housing units [ $R'_w$ ] will be obtained using ARCO WALL FIBER, a product by ARCOACUSTICA Company. The product will be inserted in hollow space of the double walls between different housing units. Airborne wall insulation ( $R_w$ ) 56.0 dB, thermal resistance (R) 1.31  $m^2K/W$ , water vapour transmission resistance ( $\mu$ ) 3.2. The system implementation will have to be carried out in compliance with the instructions specified in installation procedure by the manufacturer.

**SUMMARY OF MAIN FEATURES**

| Evaluation criterion                 | Procedure             | Symbol         | Fiber <sup>4</sup> | U.M.              |
|--------------------------------------|-----------------------|----------------|--------------------|-------------------|
| Nominal thickness                    | IM/AL 2014            | s              | 40.0               | mm                |
| Panel length                         | IM/AL 2014            | L              | 60.0               | cm                |
| Panel height                         | IM/AL 2014            | W              | 120.0              | cm                |
| Surface mass                         | IM/AL 2014            | Ms             | 0.8                | Kg/m <sup>2</sup> |
| Density                              | IM/AL 2014            | Mv             | 20.0               | Kg/m <sup>3</sup> |
| Thermal conductivity                 | EN 12667 ISO 8302     | $\lambda_D$    | 0.035              | W/mK              |
| Polyester D.S.C.                     | ISO 11357/1 ISO 357/2 | C <sub>p</sub> | 1500               | J/kgK             |
| Water vapour transmission resistance | EN 12086              | $\mu$          | 3.2                | /                 |
| Product thermal resistance           | ISO 13786 ISO 6946    | R              | 1.31               | $m^2K/W$          |
| Fire reaction class                  | EN 13501/1            | Classe         | 1                  | /                 |
| Elastomer lower heating value        | /                     | LHV            | 26000              | kJ/kg             |

Warning: Other sizes are available upon request

**ACOUSTIC PROPERTY**

| Evaluation criterion              | Procedure             | Simbolo    | Fiber <sup>4</sup> | U.M.                 |
|-----------------------------------|-----------------------|------------|--------------------|----------------------|
| Airborne wall insulation          | ISO 12354/1/3         | $R_w$      | 56.0               | dB                   |
| Airborne facade insulation        | ISO 140/5 ISO 717/1   | $R^3_w$    | 51.0               | dB                   |
| Panel's airborne noise insulation | ISO 140/4 ISO 717/1   | $R^1_w$    | 22.0               | dB                   |
| Airflow resistance                | ISO 29053             | r          | 3.2                | kPa*s/m <sup>2</sup> |
| Rating of sound absorption        | ISO 11654 ISO 354     | $\alpha_w$ | 0.80               | /                    |
| Apparent dynamic stiffness        | ISO 29052/1 ISO 29053 | $s'_t$     | 2.5                | MN/m <sup>3</sup>    |
| Dynamic stiffness                 | ISO 29052/1           | $s'$       | /                  | MN/m <sup>3</sup>    |

Warning: ArcoAcustica disclaims any civil or criminal liability arising from not compliant products using

**PACKING**

| Evaluation criterion        | Fiber <sup>4</sup> | U.M.           |
|-----------------------------|--------------------|----------------|
| Pallet size                 | Pack               | cm             |
| Product weight on pallet    | 11.52              | kg             |
| Number of meters per pallet | 14.40              | m <sup>2</sup> |
| Number of panel per pallet  | 20                 | Panel          |

Warning: ArcoAcustica reserves to change the technical specifications of all products without prior notice.