

# EXPANDED INSULATION CORKBOARD

## HVAC VIBRATION CONTROL



AMORIM

AMORIM ISOLAMENTOS, S.A.



Hvac machine



Expanded Insulation Corkboard



Brick



Foundation

## ADVANTAGES

1. Excellent mechanical strength
2. Dimensional stability of the material
3. High durability without loss of features
4. Healthier natural product
5. Long term effectiveness

**100%  
NATURAL  
CHOICE**

EXPANDED  
INSULATION  
CORKBOARD IS  
A SUSTAINABLE  
MATERIAL FOR  
A SUSTAINABLE  
INSULATION

# EXPANDED INSULATION CORKBOARD

## HVAC VIBRATION CONTROL



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### SOLUTION DESCRIPTION

Reduce or eliminate the transmission of vibrations and consequent noise to the building in which it is installed and the neighbouring buildings. All machines should be insulated.

### TECHNICAL FEATURES

Standard density: 110 to 120 kg/m<sup>3</sup>

Thermal conductivity:  $\lambda = 0.037$  to  $0.040$  W/m°C

High density: 170 to 190 kg/m<sup>3</sup>

Thermal conductivity:  $\lambda = 0.043$  W/m°C

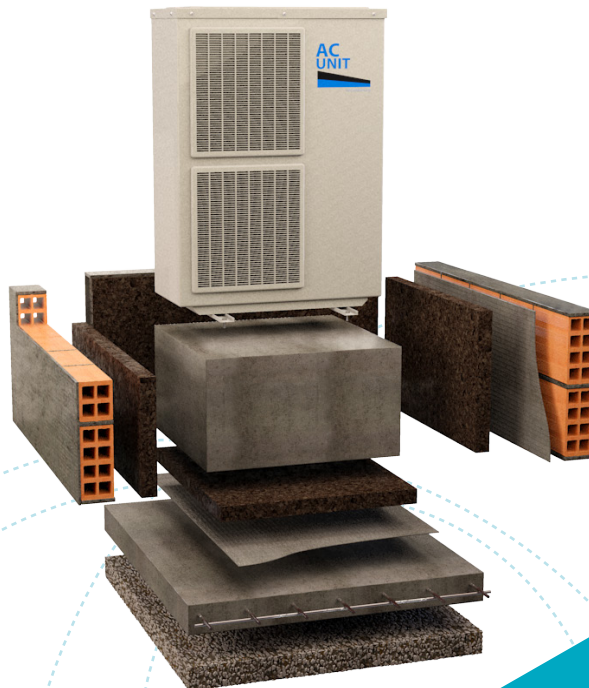
Excellent thermal lag

Excellent acoustic insulation

Optimal behaviour in large temperature range: -180° a 120°C

Does not absorb water by capillary action

Fire resistance: EuroClass E



### COMPRESSION

| Density   | Thickness (mm) | Weight per unit area (Kg/m <sup>2</sup> ) |      |       |       |       |       |       |
|-----------|----------------|---|------|-------|-------|-------|-------|-------|
|           |                | 2000                                      | 5000 | 10000 | 15000 | 20000 | 25000 | 30000 |
|           |                | Deformation (mm)                          |      |       |       |       |       |       |
| 110 / 120 | 25             | 0,3                                       | 0,5  | 1,1   | 2,1   | -     | -     | -     |
|           | 50             | 0,5                                       | 1,1  | 2,2   | 4,3   | -     | -     | -     |
| 170 / 190 | 25             | 0,2                                       | 0,3  | 0,6   | 0,8   | 1,1   | 1,4   | 1,9   |
|           | 50             | 0,4                                       | 0,7  | 1,1   | 1,6   | 2,2   | 2,9   | 3,9   |

### ENVIRONMENTAL FEATURES

- 100% NATURAL AND ADDITIVE-FREE INDUSTRIAL PROCESS
- DURABILITY OF 50 TO 60 YEARS WITHOUT LOSS OF CHARACTERISTICS
- TOTALLY RECYCLABLE
- SINK CO<sub>2</sub> (CARBON NEGATIVE)
- LOW EMBODIED ENERGY
- NO EMISSION OF HARMFUL COMPOUNDS FOR INDOOR AIR QUALITY

### PRODUCT DIMENSIONS

Standard: 1000x500x [10 a 320mm]

HD: 170/190 Kg/m<sup>3</sup>: 1000x500x [25; 50; 75; 100mm]



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