



AMORIM

Amorim Isolamentos, S.A.

## MD FACADE DATA SHEET



### DESCRIPTION

MDFACADE expanded insulation cork, innovation product of AMORIM ISOLAMENTOS, is recommended for exterior applications and has as reference project the main facade of Portugal Pavilion Expo 2000 in Hannover – Architects Álvaro Siza Vieira and Souto Moura – located in Coimbra since 2002 without any apparent anomaly...There are many references in Portugal and abroad.

This history, although recent, allows us to ensure that its durability when exposed exceeds 10 years as in other applications there is material without loss of properties with more than 50 years.

### TECHNICAL SPECIFICATIONS

Density: 140 to 160 kg/m<sup>3</sup>  
Thermal conductivity:  $\lambda = 0,043 \text{ W/m}^\circ\text{C}$   
Compression resistance at 10%: 220KPa  
Water absorption by partial immersion:  
0,17kg/m<sup>2</sup>  
Fire reaction: Euroclasse E

### PRODUCT LINES

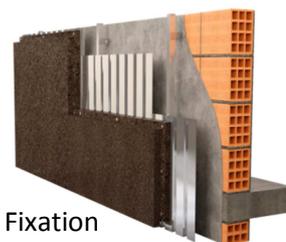
Board Dimensions 1000x500mm  
Thickness up to 240mm

### ADVANTAGES

Excellent thermal and acoustic insulation  
Great behaviour in large temperature range (-180°C to 120°C)  
100% natural Industrial process without any additives  
Fully recyclable  
CO<sub>2</sub> Sink (CARBON NEGATIVE)  
Low embodied energy



Adhesive



Mechanical Fixation

Its fixation, depending on the structural element, should be mechanical (screw) or adhesive. For more information contact us.



TeCons

Instituto de Investigação e Desenvolvimento  
Tecnológico em Ciências da Construção



UNIVERSIDADE DE COIMBRA

## RESULTS SUMMARY REPORT

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Based in the reports: Thermal conductivity – HIG084/10 to HIG088/10; Compression resistance at 10% deformation – HIG071/11 and HIG072/11; Water absorption by partial immersion - 06/2013 performed by Amorim Isolamentos, S.A. Date: 24/04/2014

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### Tested specimen:

It was submitted for thermal conductivity tests, 5 specimens with the internal ITeCons references HIG020A/10 to HIG024A/10; To compression resistance at 10% deformation tests, 6 specimens with the internal ITeCons references HIG096A/11 to HIG100A/11; To water absorption by partial immersion tests, 1 specimens with the internal references Amorim Isolamentos, A1 to A4. The product had the following customer reference: Special MD Façades (Expanded Insulation Cork).

### Performed tests and results:

The tests performed to the Special MD Façades, the results were the following:

| Test   | Results                |
|--|------------------------|
| Apparent Density (from the thermal conductivity reports) | 156 Kg/m <sup>3</sup>  |
| Thermal conductivity                                     | 0,043 W/(m.K)          |
| Compression resistance at 10% deformation                | 223 kPa                |
| Water absorption by partial immersion                    | 0,17 kg/m <sup>2</sup> |



Note: This report is not a replacement for the individual test reports which served as its basis. For a complete analysis and interpretation of the results see individual test reports.

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