



Test Report

Report nº. HIG 766/12Date: 20-12-2012Test Owner: Amorim Isolamentos, S.A.Address: Estrada de Lavre, km 6 - Apartado 7, 7084-909 Vendas NovasContact Name: José Manuel AndradeFax: 265 809 221Tel. 265 809 220e-mail: portugal.aisol@amorim.com

Determination of Water Vapour Transmission Properties of Thermal Insulating Products

SHIG.ISO.09

Product Designation*: Expanded cork boardMaterial Description*: ICBStandard: NP EN 13170Origin of Specimen*: Amorim Isolamentos, S.A.Production code*: V.A. 2012.10Packing: Cardboard boxSpecimen state: In good conditionNominal Thickness*: 50 mmSpecimen Reception Date: 15-Out-12Title of Standard: NP EN 12086:1997 - Thermal insulating products for building applications. Determination of water vapour transmission properties.Atmospheric Pressure: 100,7 kPaHumidity in the Cup: 0,0 %Chamber Temperature: 23,0 °CHumidity of the Chamber: 50,0 %Configuration of the test used: Configuration c)Specimen conditioning conditions: (23±2)°C, (50±5)%HRStart of Conditioning: 08-11-2012End of Conditioning: 13-11-2012Start Date: 13-11-2012End Date: 19-12-2012Operator: Saúl MartinsDesiccant/Saturated saline aqueous solution: The desiccant used was Silica Gel and the flow has a downward direction.

Specimen Designation	Length (mm)	Width (mm)	Thickness (mm)	Specimen area (A) [m ²]	Moisture Density Flow (g) [mg/(h.m ²)]	Moisture Permeance (W) [(mg/(m ² .h.Pa))]
HIG494A/12	99,90	99,20	51,50	9,91E-03	574,73	0,411
HIG495A/12	100,00	99,10	51,30	9,91E-03	491,71	0,351
HIG496A/12	99,80	99,70	50,40	9,95E-03	671,50	0,480
HIG497A/12	99,50	99,30	51,05	9,88E-03	611,86	0,437
HIG498A/12	100,50	99,70	50,70	1,00E-02	642,91	0,459
Mean	99,94	99,40	50,99	9,93E-03	596,54	0,428

Specimen Designation	Moisture Resistance (Z) [(m ² .h.Pa)/mg]	Moisture Permeability (δ) [mg/(m.h.Pa)]	Moisture Factor Resistance (μ) [-]	Thickness of air equivalent Moisture Resistance (S _a) [m]
HIG494A/12	2,436	2,11E-02	33,6	1,7
HIG495A/12	2,847	1,80E-02	39,4	2,0
HIG496A/12	2,085	2,42E-02	29,4	1,5
HIG497A/12	2,288	2,23E-02	31,8	1,6
HIG498A/12	2,178	2,33E-02	30,5	1,5
Mean	2,367	2,18E-02	32,9	1,7

Observation:

General: Specimen's collection has been made by the test owner.
Relative to specimens and execution of the test:

- Notes:
1. The results presented refer exclusively to the tested specimens.
 2. The data marked with * were provided by the claimer.
 3. This report may not be reproduced, except if complete, without the written consent of ITECons.

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Mod. SHIG ISO 09 RE 01 V1 07_09_1ng

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