

DECLARATION OF PERFORMANCE

N.º DoP ACI-ICB-MDF-01-20

- Unique identification code of the product-type:
MDFacade - Expanded Insulation Cork Board (ICB)
- Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11 (4):
See the label product
- Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
For use as thermal insulation for buildings (see EN 13170) according to the manufacturer's specifications. Also intended for use as exterior and interior cladding - cork at sight.
- Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11 (5):
**Amorim Cork Insulation, S.A.
Rua de Meladas, 105
4535-186 Mozelos – Portugal
T: (+351) 227 419 100 | Email: info.aci@amorim.com | www.amorimcorkinsulation.com**
- Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12 (2):
no applicable
- System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 3
- In case of the declaration of performance concerning a construction product covered by a harmonised standard:
Name of the notified test laboratory, that has issued the certificate of conformity of the factory production control, inspection reports and calculation reports (if relevant).
Itecons - Instituto Investigação e Desenvolvimento Tecnológico para Construção, notified test laboratory nº 2211 (PT), determined the performance of the product type, based on tests and type calculations.
- In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:
no applicable
- Declared performance: **ICB | MDF – EN 13170 – L2 – W2 – T2 – CS(10)120 – TR60 – WS – MU50 – CC(0,8/0,4/10)5 – AFR35**

Essential characteristics	Performance		Harmonised technical specification
Reaction to fire, Euroclass characteristics	Reaction to fire	Euroclasse E	EN 13170:2012+A1:2015
Release of dangerous substances to the indoor environment	Release of dangerous substances	NPD	
Acoustic absorption index	Sound absorption	NPD	
Impact noise transmission index (for floors)	Dynamic stiffness	NPD	
	Thickness, d_L	NPD	
	Compressibility	NPD	
	Air flow resistivity	AFr35	
Direct airborne sound insulation index	Air flow resistivity	AFr35	
Continuous Glowing combustion	Continuous Glowing combustion	NPD	
Thermal resistance	Thermal resistance	see Table A	
	Thermal conductivity	0,043 W/m.K	
	Thickness, d_L	T1 - T2 ($d_L > 50$ mm)	
Water permeability	Water absorption	WS	
Water vapour permeability	Water vapour transmission	MU50	
Compressive strength	Compressive stress at 10% deformation	CS(10)120	
	Point load	NPD	
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	satisfy	
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance and thermal conductivity	satisfy	
	Durability characteristics	satisfy	
Tensile/Flexural strength	Tensile strength perpendicular to faces	TR60	
Durability of compressive strength against ageing/degradation	Compressive creep	CC(0,8/0,4/10)5	
NPD - No Performance Determined			

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10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Mozelos, January 2020

Carlos Manuel Silva, CEO

Table A: Thermal resistance (R) in accordance with EN 13170:2012+A1:2015

Thickness, d_L [mm]	20	25	30	35	40	45	50	55	60	65	70	75	80
Thermal resistance [$m^2.K/W$]	0,45	0,55	0,70	0,80	0,90	1,05	1,15	1,25	1,40	1,50	1,60	1,70	1,85
Thickness, d_L [mm]	85	90	95	100	110	120	130	140	150	160	170	180	190
Thermal resistance [$m^2.K/W$]	1,95	2,05	2,20	2,30	2,55	2,75	3,00	3,25	3,45	3,70	3,95	4,15	4,40
Thickness, d_L [mm]	200	210	220	230	240	250	260	270	280	290	300		
Thermal resistance [$m^2.K/W$]	4,65	4,85	5,10	5,35	5,55	5,80	6,05	6,25	6,50	6,70	6,95		

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