CELENIT L3AB/A2

Technical data sheet

Composite thermal and acoustic insulation board, in Euroclass A2-s1, d0, consisting of two layers (thickness 5 mm each) of mineralized thin fir wood wool bound with white Portland cement and mineral powder, coupled to an internal layer of high density mineral wool according to EN 13162 standard. Wood wool is 2 mm wide. It complies with EN 13168 standard.
CELENIT L3AB/A2 is PEFC™ certified. Also available with FSC® certification.

Also available with grey Portland cement [CELENIT L3A/A2].

Edges detail
D - BC - BL - B4

Applications
ceilings insulation with permanent formwork system

Technical data

Standard	EN 13168						
Designation code	WW-C/3 MW-EN13168-L2-W1-T1-S2-CS(Y)50-TR15-CI3						
Length x Width [mm]	2000x600						
Thickness [mm]	35	50	75	100	125	150	175
Layers structure [mm]	5/25/5	5/40/5	5/65/5	5/90/5	5/115/5	5/140/5	5/165/5
Weight [kg/m^2]	11.7	13.3	16.4	19.7	23.1	26.5	29.9
Declared thermal conductivity λ_D [W/mK]	WW 0.091 - MW 0.039						
Declared thermal resistance R_D [m^{2}K/W]	0.75	1.10	1.75	2.40	3.05	3.70	4.30
Thermal resistance R [m^{2}K/W]	0.75	1.14	1.78	2.42	3.06	3.70	4.34
Compressive strength σ_m [kPa]	≥ 50						
Tensile strength perpendicular to faces σ_{mt} [kPa]	≥ 15						
Water vapour transmission μ	WW 5 - MW 1						
Reaction to fire	Euroclass A2-s1, d0						
Chloride content [%]	≤ 0.06						
Sound absorption	α_w up to 1.00 - NRC up to 1.05						

Logistic data

Dimensions [mm]	**Pallet**	**35 mm**	**50 mm**	**75 mm**	**100 mm**	**125 mm**	**150 mm**	**175 mm**
boards: 2000x600	boards per pallet	56	40	28	20	16	12	12
pallet: 2000x1200	m^2 per pallet	67.20	48.00	33.60	24.00	19.20	14.40	14.40

Certifications

ISO 9001:2015 no. 1351
FSC® no. ICILA-COC-002789
PEFC™ no. ICILA-PEFCCOC-000117
ICEA no. LEED 2015_001
ICEA no. REC 2015_001

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Sound absorption

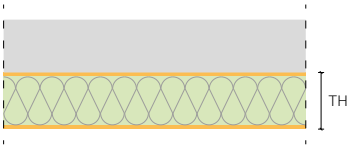
Type of board [1]	Test specifications [2]			Certificate [3]		Sound absorption									
	Thickness [mm]	MW [mm]	TH [mm]	No.	Date	Frequencies α_p [Hz] 125	250	500	1000	2000	4000	α_w	NRC	SAA	Class
Application in adherence															
CELENIT L3AB/A2	50		50	324536-A	14.05.2015	0.25	0.65	1.00	1.00	1.00	0.90	0.95	0.95	0.95	A
CELENIT L3AB/A2	75		75	324537-A	14.05.2015	0.40	0.90	1.00	1.00	1.00	0.90	1.00	1.00	1.00	A
CELENIT L3AB/A2	100		100	333110-A	20.04.2016	0.60	1.00	1.00	1.00	0.95	0.85	1.00	1.00	1.01	A
CELENIT L3AB/A2	125		125	333110-B	20.04.2016	0.65	1.00	1.00	1.00	0.95	0.85	1.00	1.05	1.03	A

[1] *Paint doesn't affect sound absorption performances of CELENIT boards as described in the technical note provided by Giordano Institute dated 16.07.2015. Sound absorption values are also valid for products with grey cement*

[2] *Test specifications: "thickness" is relative to CELENIT board - "MW" is the thickness of rock wool in the background - "TH" is the total construction height from the lower edge of ceiling to lower edge of boards*

[3] *All certificate are based on tests carried out at the Giordano Institute (Bellaria - RN - Italy) according to EN ISO 354:2003*

Application in adherence



Storage

The boards must be transported and laid on a flat surface in a clean and dry place, protected from direct moisture.
Pallet handling on site will be performed with the necessary care. Bumps at the corners of the pallets can cause damage to the boards.
Store the boards indoor; boards must be not in direct contact to the ground and protected from moisture and atmospheric agents. During the storage of pallets on site, make sure to not remove the plastic wrapping. The boards must be dry at the time of installation as the place on which they are going to be installed.

The boards have one side that should be placed against the structure (back of the board). The back of the board usually has CELENIT logo.
In the absence of the logo it is possible to identify the front according to the pallet's layout: the front of the boards is towards the top and the back down towards the pallet.

If the boards were for indoor use, before installation they must remain in the room to adapt to the temperature and humidity, for a few days. Avoid sudden temperature increases, just after the application of the boards.

CELENIT NATURAL INSULATORS

CELENIT S.p.A
Thermal and acoustic insulation panels for a sustainable architecture

Registered office:
Via Bellinghiera, 17
35019 Onara di Tombolo (PD) Italy
P.IVA/C.F.: 00211210281

Contact:
Ph. +39.049.5993544
techsupport@celenit.com
www.celenit.com