



# CELENIT N

## Technical data sheet



Thermal and acoustic insulation board, consisting of mineralized fir wood wool bound with grey Portland cement. Wood wool is 3 mm wide.

It complies with EN 13168 standard.

The boards are certified by ANAB-ICEA and natureplus for eco-compatibility of materials and manufacturing process. CELENIT N is PEFC™ certified. Also available with FSC® certification.

### Edges detail

D - BC - BL - B4

### Applications

roofs, external walls, partitions, ceilings, thermal bridges, insulated concrete

## Technical data

Standard	EN 13168								
Designation code	WW-EN13168-L2-W1-T1-S2-CS(10)200-CI1 (thicknesses 15-40 mm) WW-EN13168-L2-W1-T1-S2-CS(10)150-CI1 (thicknesses 50-75 mm)								
Length x Width [mm]	2400x600 - 2000x600 - 1200x600								
Thickness [mm]	15	20	25	30	35	40	50	75	
Weight [kg/m²]	8.0	10.0	11.5	13.0	14.0	16.5	19.0	26.0	
Declared thermal conductivity $\lambda_D$ [W/mK]	0.065								
Declared thermal resistance $R_D$ [m²K/W]	0.20	0.30	0.35	0.45	0.50	0.60	0.75	1.15	
Thermal resistance R [m²K/W]	0.23	0.31	0.38	0.46	0.54	0.61	0.77	1.15	
Compressive stress at 10% deformation $\sigma_{10}$ [kPa]	≥ 200 (thicknesses 15-40 mm) ≥ 150 (thicknesses 50-75 mm)								
Water vapour transmission $\mu$	5								
Specific heat $c_p$ [kJ/kgK]	1.81 <small>Certified by the University of Bologna - LEBSC no. 809   rev. 07.05.2009</small>								
Reaction to fire	Euroclass B-s1, d0								
Chloride content [%]	≤ 0.35								

## Logistic data

Dimensioni [mm]	Pallet	15 mm	20 mm	25 mm	30 mm	35 mm	40 mm	50 mm	75 mm
boards: 2400x600	boards per pallet	130		88		64		44	
pallet: 2400x1200	m² per pallet	187.20		126.72		92.16		63.36	
boards: 2000x600	boards per pallet	130	110	88	74	64	56	44	30
pallet: 2000x1200	m² per pallet	156.00	132.00	105.60	88.80	76.80	67.20	52.80	36.00
boards: 1200x600	boards per pallet	130		88					
pallet: 1200x1200	m² per pallet	93.60		63.36					

## Certifications

ISO 9001:2015 no. 1351  
ANAB no. EDIL 2009\_004  
NATUREPLUS no. 1007-1511-134-1  
EPD® S-P-02275  
FSC® no. ICILA-COC-002789  
PEFC™ no. ICILA-PEFCCOC-000117  
ICEA no. LEED 2015\_001  
ICEA no. REC 2015\_001





### 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.