



BUILDING | CONSTRUCTION  
CELENIT range



## 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   |      |      |      |      |      |      |      | CE |
| Designation code  | WW-EN13168-L2-W1-T1-S2-CS(10)200-CI1 (thicknesses 15-40 mm)<br>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/m <sup>2</sup> ]                               | 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 $R_D$ [m <sup>2</sup> K/W]    | 0.20   | 0.30 | 0.35 | 0.45 | 0.50 | 0.60 | 0.75 | 1.15 |    |
| Thermal resistance R [m <sup>2</sup> K/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)<br>≥ 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 | m <sup>2</sup> 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 | m <sup>2</sup> 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 | m <sup>2</sup> 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





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#### 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.

