

HERATEKTA-C3 031

April 2020



APPLICATIONS



Wood wool, high thermal insulation board.

DESCRIPTION

Three-layer composite board with a core of gray EPS slab, with graphite particles and wood wool facing with mineral binder according to EN 13168. HERATEKTA-C3 031 boards are destined for applications where high performance thermal insulation is required. The boards can be delivered with painted surface (in RAL colours) on request.

PERFORMANCE

Thermal

Thermal conductivity: Gray EPS: 0,031 W/m.K / WWC: 0,090 W/m.K

Fire

Classification: E_s according to EN 13501-1

Mechanical property

Compression strength: $\sigma_m \geq 50$ kPa

TECHNICAL PROPERTIES

- Outstanding thermal insulation due to the gray EPS core
- It can be used as a permanent formwork
- Low vapour resistance
- Very high resistance to mechanical stresses
- Resistant to microorganisms and rodents
- Chemically neutral – no reaction with the surrounding materials
- No mass and dimensional changes in case of temperature differences
- Easy cutting to the requested size and shape

PRODUCTION SIZES, PACKAGING UNITS

Thickness	Thermal resistance - RD	Average mass	Packaging /pc	Packaging unit	Length	Width
mm	m ² K/W	kg/m ²	pc/pallet	m ² /pallet	mm	mm
35	0,90	8,5	32	38,4	2000*	600
50	1,40	9,0	22	26,4		
75	2,20	9,0	14	16,8		
100	3,00	9,5	11	13,2		
125	3,80	10,0	8	9,6		
150	4,60	10,5	7	8,4		

*Boards can be ordered in half length (1000 mm), as well.

CERTIFICATION



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ADDITIONAL INFORMATION

Application Area:

Thermal insulation of facades, slabs, and garages, permanent formwork for eliminating thermal bridges, insulation of slabs cooled from beneath. It provides an impact resistant surface and a perfect base for renders thanks to the solid wood wool layer with mineral binder.

Designation Code:

WW-EN 13168 - L1-W1-T1-S1-P1-CS(10)50-TR5-Cl1

Certificate of Consistency of Performance (CPR)

0751-CPR-222.0-01

DoP:

W4312BPCPR

Product norm:

EN 13168

Dimension stability and tolerances of WW boards:

- Due to the organic component of wood wool boards slight deviations in the size cannot be excluded. Likewise, the panels also shrink and expand if there is strongly fluctuating air humidity.
- Dimensional stability in standard climatic conditions is 0,5% for length (± 10 mm for 2000 mm boards) and for width ($\pm 2,5$ mm for 500 mm wide boards). Therefore, special attention must be given to the temperature and air humidity during installation (if necessary heat, ventilate, or dehumidify the air under constant monitoring) in order to ensure the required installation conditions.
- Production tolerance for the 2000 mm nominal dimensions is $\pm 5/-10$ mm; for 1000 mm lengths $\pm 3/-5$ mm, for width is ± 3 mm according to EN 13168 point 4.2.2.

Installation and system conditions:

- The installation of WW products (Heraklith homogeneous boards, Therastyren and Therarock composite boards) must be carried out under controlled humidity and temperature conditions.
- Only install panels in rooms, where the following conditions are ensured: for heated or air-conditioned rooms, the maximum relative air humidity must be between 40% and 75%, the temperature must not be below $+7^{\circ}\text{C}$ or above $+30^{\circ}\text{C}$.
- If WW products are to be installed in rooms with central heating, or in rooms with conditions significantly different from normal conditions we recommend acclimatising the boards for at least 48 hours days in a room with the same climatic conditions.

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