

Tektalan A2 HS, Tektalan A2 HS F

Heraklith®

Multi-functional, non-combustible
heat insulating composite board



Tektalan A2-HS, A2-HS F

Three-layer composite board with a core of mineral wool and wood wool facing with cement binder

Product norm: EN 13168

EC Certificate of Conformity Reg. Number: K1-0751-CPD-222.0-01-02/12 (E)

Designation code: WW-EN 13168 - L1-W1-T1-S1-CS(10)30-TR5-Cl1

PRODUCT DESCRIPTION

Non combustible composite board made from Nobasil mineral wool core and two-sided wood wool facing with cement binder according to EN 13168.

APPLICATION AREA

Non combustible (A2 class according to EN 13501-1) insulation board for posterior fixing at ceilings and walls of underground parking places in small, medium and large garages (according to the local regulations), at slabs of cellars and in industrial and commercial buildings

Special versions:

- Incorporated vapour membrane
- For visible application.

TECHNICAL PROPERTIES

- High fire resistance – A2-s1, d0 – increases the fire safety of buildings
- Excellent heat accumulation
- Very good acoustic properties
- Low vapour resistance
- Excellent construction-biological properties
- 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
- Very high resistance to mechanical stresses

PRODUCTION SIZES, PACKAGING UNITS

Thickness	mm	50	75	100	125	150
Layers	mm	5/40/5	5/65/5	5/90/5	5/115/5	5/140/5
Average mass	kg/m ²	17	19,5	23	26,0	29,5
Packaging unit	pc/pallet	22	14	11	8	7
Packaging unit	m ² /pallet	26,4	16,8	13,2	9,6	8,4
Length	mm	2000 *				
Width	mm	600 **				

Transportation: on pallets. Packaging: wrapped in foil, strapped on two positions.

* Boards can be ordered in half length (1000 mm). ** 500 mm width is available on request.

TECHNICAL DETAILS

Properties	Sign	Description/Data					Unit	Norm
Fire class	–	A2-s1, d0					–	EN 13501-1
Thermal conductivity – WW/MW	λ_D	Mineral wool: 0,038 Wood wool: 0,70					[W/mK]	EN 13168
Thickness	d	50	75	100	125	150	[mm]	
Thermal resistance – declared value	R_D	1,15	1,85	2,50	3,15	3,80	[m ² K/W]	EN 13168
Compression strength	σ_m	≥ 30					[kPa]	EN 826
Tensile strength perpendicular to faces	σ_{MT}	≥ 5					[kPa]	EN 1607

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 (± 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 +5/-10 mm; for 1000 mm lengths +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, Heratekta and Tektalan 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°C or above +30°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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