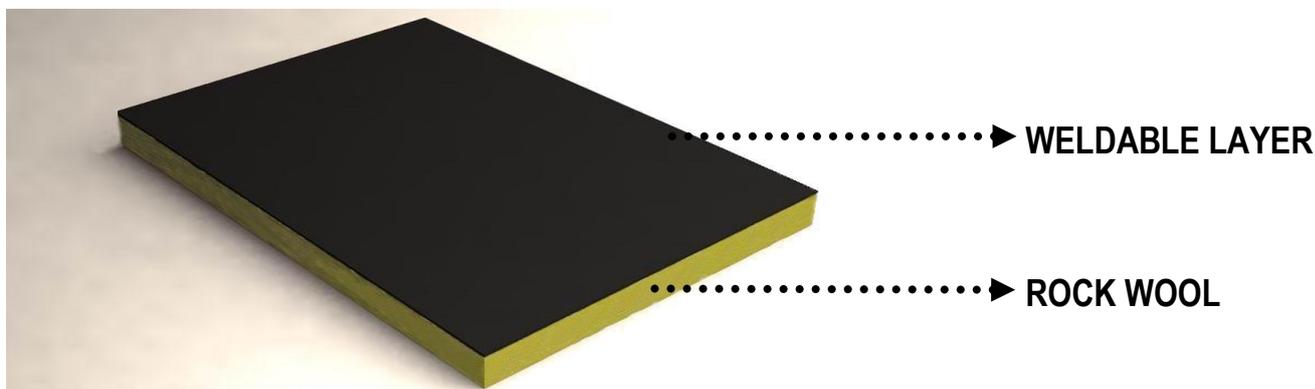


DESCRIPTION

Rigid high-density panel, made of waterproof rock wool. Of 175 kg/m³ of nominal density.

On the outside it has a bituminous layer of asphalt bitumen, protected by a hot-melt film, to allow the adhesion of the sheets, when welding it on the panel.



TECHNICAL FEATURES

FEATURES	Standard UNE EN	Unit	S 175/4	S 175/5	S 175/6	S 175/8	S 175/10
Declared thermal conductivity (λ). At 10 °C	UNE-EN 12667/12939	W/m K	0,038				
Declared thermal resistance. At 10 °C		m ² K/W	1,05	1,30	1,55	2,1	2.60
Thickness. (Tolerance \pm 3 mm)	UNE-EN 822/3	mm	40	50	60	80	100
Length. (Tolerance \pm 2 %)	UNE-EN 822/3	mm	1.200				
Width. (Tolerance \pm 1,5 %)	UNE-EN 822/3	mm	1.000				
Squad. (Length / Width deviation)	UNE-EN 824	--	<5 mm/m				
Flatness (Arrow)	UNE-EN 825	--	\leq 6 mm				
Dimensional stability (23 °C/90 % HR) and (70 °C/50 % HR)	UNE-EN 1604	%	Width ($\Delta\epsilon$) Length ($\Delta\epsilon_c$) \leq 0,0				
Tensile strength parallel to faces	UNE-EN 1608	kPa	170				
Tensile strength perpendicular to faces	UNE-EN 1607	kPa	\geq 15				
Compression tension (σ_{10})	UNE-EN 826	kPa	\geq 75				
Deformation on point load	UNE-EN 12430	N	\geq 950				

Behaviour towards water/humidity: product that repels water, non-hygroscopic and with zero capillarity.

Water absorption (By partial immersion) (Ws)	UNE-EN 12087	kg/m ²	\leq 1
Water vapor diffusion factor (μ)	--	--	1,3

Reaction to fire (Classification according "Euroclases")	UNE-EN 13501	--	F (Euroclass) *
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* - F (Euroclass) Not determined, by the presence of the asphalt layer.

PRODUCT WITH CE-MARK. UNE-EN 13162. MW EN 13162 -T5 -Ws

Acoustic behavior

Provides a notable attenuation to airborne and impact noise, especially on deck.

Acoustic absorption coefficient, α_S , for 50 mm thick panel. EN ISO 20354.

F (Hz)	100	125	160	200	250	315	400	500	630
α_S	0,08	0,15	0,29	0,55	0,67	0,85	0,99	1,08	1,13

F (Hz)	800	1000	1250	1600	2000	2500	3150	4000	5000
α_S	1,20	1,18	1,10	1,16	1,03	1,06	1,02	1,02	0,96

Equivalent absorption area, $\alpha_w = 0,75$ MHz. (Class C)

Chemical behavior

Rock wool fibers, are chemically neutral, have a pH = 7, do not react with acids or alkalis.

Biological behavior

Inorganic fibers, not being an environment conducive to the proliferation of fungi, parasites or other microorganisms.

Applications

Thermal and acoustic insulation for metal roofs, deck and concrete roofs and other non-passable roofs. Mechanically fixed to the support.

Use as an outer layer, in a light roof, in one or more layers of insulating panels (*) mechanically fixed to the support, and finished with waterproofing membranes of modified asphalt bitumen (LBM) adhered to the weldable panel.

Note: This product complies with the requirements of standard UNE 104401: 2013 (**), section 5.2.1.2.1. Where a compressive strength (σ_{10}) of 60 kPa is required for:

- Non-passable flat roof, conventional type
- Non-passable sloping roof, conventional type

(*) In case of applying more than one layer of insulation, only the upper one should be weldable, for this type of use. The lower layers may or may not contain the asphalt bitumen layer.

(**) UNE 104401: 2013. Waterproofing in buildings above and below grade with modified bituminous sheets. Systems and implementation.