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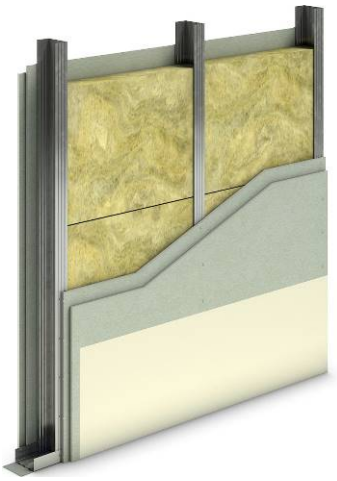
TECHNOLITE OPTIMA

MW-EN 13162-T4-DS(70,-)-DS(23,90)-CS(10)0.5-WS-WL(P)-MU1 RtF:A1

Product description
TECHNOLITE OPTIMA is the nonflammable, water-repellent thermal and sound insulation slabs of mineral wool based on basalt rocks.



Area of application
TECHNOLITE OPTIMA slabs are used in civil and industrial construction as thermal and sound insulation in systems, where the insulation does not bear the external load (framed partitions and floors, attic floors, pitched roofs with the rafter system, etc.). Also used as the first (internal) insulation layer in two-layer thermal insulation systems of hinged ventilated facades.

Storage
The slabs must be stored in covered warehouses. The slabs shall be stored in containers or stacked on the pallets or on the supports during the whole period of storage. The height of the stack shall not exceed 3 meters. Shelf life if all storage requirements are met: 6 months from the date of production.

Main characteristics

Essential characteristics	Performance	Harmonized technical specification	
Declared thermal conductivity at 10°C, W/m*K	0.036	EN 12667	EN 13162:2012 + A1:2015
Length, mm	1000, 1200 (±2%)	EN 822	
Width, mm	500, 600 (±2%)	EN 822	
Thickness (with increments of 10 mm), mm	50-200	EN 823	
Deviation from squareness, mm/m	<5	EN 824	
Deviation from flatness, mm	<6	EN 825	
Compressive stress at 10% deformation, kPa	CS(10)0.5	EN 826	
Dimensional stability, %: - at specified temperature - under specified temperature (23ºC) and humidity conditions (90% R.H.)	DS(70,-)<1 DS(23,90)<1	EN 1604	
Reaction to fire, Euroclass	A1	EN 13501-1	
Water absorption during short / longterm immersion, kg/m^2	WS<1 / WL(P)<3	EN 1609 / EN 12087	
Water vapor transmission, MU	MU1	EN 12086	

Thermal resistance (EN 12667)

Thickness, mm	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
R_D, m^2*K/W	1.40	1.65	1.95	2.20	2.50	2.75	3.05	3.30	3.60	3.85	4.15	4.45	4.70	5.00	5.25	5.55