



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.

FIELD 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
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
Density kg/m ³	38 (±4)	EN 1602
Compressive stress at 10% deformation, kPa	CS(10)0.5	EN 826
Dimensional stability, %:		
- at specified temperature	DS(70,-) < 1	
- under specified temperature (23°C) and humidity conditions (90% R.H.)	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

EN
13162:2012 +
A1:2015

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