



BOERNER TOP 50

STONE WOOL

PRODUCT DESCRIPTION

BOERNER TOP 50 are non-combustible, hydrophobic thermo and sound insulation boards with a disturbed fiber arrangement, made of stone wool.

APPLICATION

Thermal, acoustic and non-combustible insulation in industrial and civil construction. Intended for use in construction facilities as a top layer of a two-layer roof thermal insulation system in combination with BOERNER BASE slabs or in other single- or multi-layer insulation systems.



THICKNESS RANGE 20 - 160 [mm]

DECLARED PARAMETERS

Parameter	Symbol	Unit	Value	Method
Declared thermal conductivity	λ_b	W/mK	0,039	EN 12667, EN 12939
Thickness tolerance class	T	-	T5	EN 823
Dimensional stability under certain temperature and humidity conditions	DS(70,90)	%	≤ 1	EN 1604
Compressive stress at 10% deformation	CS(10)	kPa	≥ 50	EN 826
Tensile strength perpendicular to the faces	TR	kPa	≥ 15	EN 1607
Point load at 5 mm deformation <50mm	PL(5)	N	≥ 550	EN 12430
Point load at 5 mm deformation ≥ 50 mm	PL(5)	N	≥ 650	EN 12430
Air flow resistivity	AFr	kPa·s/m ²	NPD	EN 9053-1
Short-term water absorption	WS	kg/m ²	≤ 1	EN 29767
Long-term water absorption	WL(P)	kg/m ²	≤ 3	EN 16535
Water vapor diffusion resistance coefficient	MU	-	MU1	EN 13162+A1
Reaction to fire	RtF	-	A1	EN 13501-1, EN 15715 NPD - No Performance Declared

DECLARED THERMAL RESISTANCE

Value of declared thermal resistance R_D																
Thickness [mm]	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	
R_D [m ² K/W]	-	0,50	0,75	1,00	1,25	1,50	1,75	2,05	2,30	2,55	2,80	3,05	3,30	3,55	3,80	
Thickness [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	
R_D [m ² K/W]	4,10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	



**STANDARD DIMENSIONS AND PACKAGING**

Code	Full name and dimensions	Pallet format	Pallet				Pack		
		mm	m ³	m ²	slab	pack	m ³	m ²	slab
BR700823	BOERNER TOP 50 1200x2400x20	pillar	3,4560	172,80	60	0	0,0000	0,00	0
BR700824	BOERNER TOP 50 1200x2400x30	pillar	3,4560	115,20	40	0	0,0000	0,00	0
BR700825	BOERNER TOP 50 1200x2400x40	pillar	3,4560	86,40	30	0	0,0000	0,00	0
BR700826	BOERNER TOP 50 1200x2400x50	pillar	3,4560	69,12	24	0	0,0000	0,00	0
BR700827	BOERNER TOP 50 1200x2400x60	pillar	3,4560	57,60	20	0	0,0000	0,00	0
BR700828	BOERNER TOP 50 1200x2400x70	pillar	3,2256	46,08	16	0	0,0000	0,00	0
BR700829	BOERNER TOP 50 1200x2400x80	pillar	3,4560	43,20	15	0	0,0000	0,00	0
BR700830	BOERNER TOP 50 1200x2400x90	pillar	3,1104	34,56	12	0	0,0000	0,00	0
BR700831	BOERNER TOP 50 1200x2400x100	pillar	3,4560	34,56	12	0	0,0000	0,00	0
BR700832	BOERNER TOP 50 1200x2400x110	pillar	3,1680	28,80	10	0	0,0000	0,00	0
BR700833	BOERNER TOP 50 1200x2400x120	pillar	3,4560	28,80	10	0	0,0000	0,00	0
BR700834	BOERNER TOP 50 1200x2400x130	pillar	2,9952	23,04	8	0	0,0000	0,00	0
BR700835	BOERNER TOP 50 1200x2400x140	pillar	3,2256	23,04	8	0	0,0000	0,00	0
BR700836	BOERNER TOP 50 1200x2400x150	pillar	3,4560	23,04	8	0	0,0000	0,00	0
BR700837	BOERNER TOP 50 1200x2400x160	pillar	2,7648	17,28	6	0	0,0000	0,00	0

LOGISTICS INFORMATION

Standard packaging on pillars. Full truck loading: 22 standard pallets.

Packing on wooden pallets (22 pallets and 11 high pallets marked with H2.6) to be confirmed in the logistics department

STORAGE

The product may only be stored outdoors in an intact, originally packed pallet. Protected against the harmful effects of weather conditions and set on a dry and stable surface. Maximum stacking height of pallets up to three meters.

ADDITIONAL INDICATIONS ON THE LABEL

H2,6 - pallet with a height of about 2,6 m / twice the amount of the product compared to a standard pallet

(PILLAR) - product on a stone wool base instead of a wooden pallet

(X slabs) - number of slabs in the pack



Certificate number: **1454-CPR-0292**

Designation code for thickness products <50mm

MW-EN 13162-T5-DS(70,90)-CS(10)50-TR15-PL(5)550-WS-WL(P)-MU1

Designation code for thickness products ≥50mm

MW-EN 13162-T5-DS(70,90)-CS(10)50-TR15-PL(5)650-WS-WL(P)-MU1

Declaration of performance no: **BRI/FR/BRT50/2023_04**

