



BOERNER LITE

STONE WOOL

PRODUCT DESCRIPTION

BOERNER LITE are non-combustible, hydrophobic thermal and sound insulation boards, made of stone wool.

APPLICATION

As a layer for thermal, acoustic and fire insulation in general building, 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 ventilated facades.



THICKNESS RANGE 50 - 300 [mm]

DECLARED PARAMETERS

Parameter	Symbol	Unit	Value	Method
Declared thermal conductivity	λ_D	W/mK	0,035	EN 12667, EN 12939
Thickness tolerance class	T	-	T2	EN 823
Dimensional stability under certain temperature and humidity conditions	DS(70,90)	%	≤ 1	EN 1604
Compressive stress at 10% deformation	CS(10)	kPa	$\geq 0,5$	EN 826
Tensile strength perpendicular to the faces	TR	kPa	NPD	EN 1607
Point load at 5 mm deformation	PL(5)	N	NPD	EN 12430
Air flow resistivity	AFr	kPa·s/m ²	5	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 REISTANCE

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]	-	-	-	-	1,35	1,65	1,95	2,20	2,50	2,80	3,05	3,35	3,65	3,95	4,20
Thickness [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
R_D [m ² K/W]	4,50	4,80	5,05	5,35	5,65	5,95	6,20	6,50	6,80	7,05	7,35	7,65	7,95	8,20	8,50





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
BR700001	BOERNER LITE 1200x600x50 (12 slabs) H2,6	2400x1200x110	6,9120	138,24	192	16	0,4320	8,64	12
BR700002	BOERNER LITE 1200x600x60 (10 slabs) H2,6	2400x1200x110	6,9120	115,20	160	16	0,4320	7,20	10
BR700003	BOERNER LITE 1200x600x70 (8 slabs) H2,6	2400x1200x110	6,4512	92,16	128	16	0,4032	5,76	8
BR700004	BOERNER LITE 1200x600x80 (6 slabs) H2,6	2400x1200x110	6,9120	86,40	120	20	0,3456	4,32	6
BR700005	BOERNER LITE 1200x600x90 (6 slabs) H2,6	2400x1200x110	6,2208	69,12	96	16	0,3888	4,32	6
BR700006	BOERNER LITE 1200x600x100 (6 slabs) H2,6	2400x1200x110	6,9120	69,12	96	16	0,4320	4,32	6
BR700007	BOERNER LITE 1200x600x110 (5 slabs) H2,6	2400x1200x110	6,3360	57,60	80	16	0,3960	3,60	5
BR700008	BOERNER LITE 1200x600x120 (5 slabs) H2,6	2400x1200x110	6,9120	57,60	80	16	0,4320	3,60	5
BR700009	BOERNER LITE 1200x600x130 (3 slabs) H2,6	2400x1200x110	6,7392	51,84	72	24	0,2808	2,16	3
BR700010	BOERNER LITE 1200x600x140 (4 slabs) H2,6	2400x1200x110	6,4512	46,08	64	16	0,4032	2,88	4
BR700011	BOERNER LITE 1200x600x150 (4 slabs) H2,6	2400x1200x110	6,9120	46,08	64	16	0,4320	2,88	4
BR700012	BOERNER LITE 1200x600x160 (3 slabs) H2,6	2400x1200x110	6,9120	43,20	60	20	0,3456	2,16	3
BR700013	BOERNER LITE 1200x600x170 (3 slabs) H2,6	2400x1200x110	5,8752	34,56	48	16	0,3672	2,16	3
BR700014	BOERNER LITE 1200x600x180 (3 slabs) H2,6	2400x1200x110	6,2208	34,56	48	16	0,3888	2,16	3
BR700015	BOERNER LITE 1200x600x190 (3 slabs) H2,6	2400x1200x110	6,5664	34,56	48	16	0,4104	2,16	3
BR700016	BOERNER LITE 1200x600x200 (3 slabs) H2,6	2400x1200x110	6,9120	34,56	48	16	0,4320	2,16	3
BR700017	BOERNER LITE 1200x600x210 (2 slabs) H2,6	2400x1200x110	6,0480	28,80	40	20	0,3024	1,44	2
BR700018	BOERNER LITE 1200x600x220 (2 slabs) H2,6	2400x1200x110	6,3360	28,80	40	20	0,3168	1,44	2
BR700019	BOERNER LITE 1200x600x230 (2 slabs) H2,6	2400x1200x110	6,6240	28,80	40	20	0,3312	1,44	2
BR700020	BOERNER LITE 1200x600x240 (2 slabs) H2,6	2400x1200x110	6,9120	28,80	40	20	0,3456	1,44	2
BR700021	BOERNER LITE 1200x600x250 (2 slabs) H2,6	2400x1200x110	7,2000	28,80	40	20	0,3600	1,44	2
BR700022	BOERNER LITE 1200x600x260 (2 slabs) H2,6	2400x1200x110	5,9904	23,04	32	16	0,3744	1,44	2
BR700023	BOERNER LITE 1200x600x270 (2 slabs) H2,6	2400x1200x110	6,2208	23,04	32	16	0,3888	1,44	2
BR700024	BOERNER LITE 1200x600x280 (2 slabs) H2,6	2400x1200x110	6,4512	23,04	32	16	0,4032	1,44	2
BR700025	BOERNER LITE 1200x600x290 (2 slabs) H2,6	2400x1200x110	6,6816	23,04	32	16	0,4176	1,44	2
BR700026	BOERNER LITE 1200x600x300 (2 slabs) H2,6	2400x1200x110	6,9120	23,04	32	16	0,4320	1,44	2

LOGISTICS INFORMATION

Full truck loading: pallets marked with H2,6

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: MW-EN 13162-T2-DS(70,90)-CS(10)0,5-AFr5-WS-WL(P)-MU1

Declaration of performance no: BRI/GB/BRL/2023_04