



BOERNER CEILING FW

STONE WOOL

PRODUCT DESCRIPTION

BOERNER CEILING FW are non-flammable, hydrophobized thermal and sound insulation boards with a disturbed fiber arrangement. Made of rock mineral wool, covered on one side with white glass veil.

APPLICATION

Thermal, acoustic and fire insulation in residential, industrial and building construction. Designed for insulating ceilings and walls in garages, basements or technical rooms. Mechanical assembly method, using steel connectors with plates. The panels are installed in accordance with the designer's guidelines. Most often using 2-3 connectors per board.

THICKNESS RANGE **50 - 200 [mm]**

INSTALLATION

Boerner Ceiling FW boards should be attached to the ceiling or wall surface using mechanical fasteners according to the manufacturer's guidelines. Usually, approximately 3 fasteners per m² of surface (2 fasteners per board) with a hole diameter of 5 mm are used. In the case of cut, small panel fragments, at least one fastener should be used per such element, regardless of the average fastener density per m² of surface. The anchoring depth of the fasteners is determined by their manufacturer depending on, among other things, the type of substrate, but it cannot be less than 20 mm. In order to ensure even load distribution on the fasteners, they should be fastened in the longitudinal axis of the board, at a distance of 30 cm from the shorter edge. This will ensure an equal distance between the fasteners with a module of 60 cm. For this purpose, a working template can be used to mark the points of penetration of the fasteners on the board. In the case of cut, smaller board sections, the layout of the connectors should be made individually. The boards should be installed with a half-length offset between adjacent strips. It is permissible to install BOERNER CEILING FW panels by means of gluing if the glue manufacturer provides for such use in its instructions. The technical parameters of the wool required by the glue manufacturer must be taken into account.

DECLARED PARAMETERS

Parameter	Symbol	Unit	Value	Method
Declared thermal conductivity	λ_D	W/mK	0,034	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	≥ 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	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 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]	-	-	-	-	1,40	1,70	2,00	2,30	2,55	2,85	3,15	3,45	3,75	4,05	4,35
Thickness [mm]	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300
R _D [m ² K/W]	4,65	4,95	5,20	5,50	5,80	-	-	-	-	-	-	-	-	-	-

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
BR701494	BOERNER CEILING FW 1200x600x50 (6 slab) H2,6	2400x1200x110	6,9120	138,24	192	32	0,2160	4,32	6
BR701495	BOERNER CEILING FW 1200x600x60 (4 slab) H2,6	2400x1200x110	6,9120	115,20	160	40	0,1728	2,88	4
BR701496	BOERNER CEILING FW 1200x600x70 (4 slab) H2,6	2400x1200x110	6,4512	92,16	128	32	0,2016	2,88	4
BR701465	BOERNER CEILING FW 1200x600x80 (3 slabs) H2,6	2400x1200x110	6,9120	86,40	120	40	0,1728	2,16	3
BR701497	BOERNER CEILING FW 1200x600x90 (3 slab) H2,6	2400x1200x110	6,9984	77,76	108	36	0,1944	2,16	3
BR701466	BOERNER CEILING FW 1200x600x100 (3 slabs) H2,6	2400x1200x110	6,9120	69,12	96	32	0,2160	2,16	3
BR701498	BOERNER CEILING FW 1200x600x110 (3 slab) H2,6	2400x1200x110	6,6528	60,48	84	28	0,2376	2,16	3
BR701487	BOERNER CEILING FW 1200x600x120 (2 slabs) H2,6	2400x1200x110	6,9120	57,60	80	40	0,1728	1,44	2
BR701499	BOERNER CEILING FW 1200x600x130 (2 slab) H2,6	2400x1200x110	6,7392	51,84	72	36	0,1872	1,44	2
BR701500	BOERNER CEILING FW 1200x600x140 (2 slab) H2,6	2400x1200x110	6,4512	46,08	64	32	0,2016	1,44	2
BR701488	BOERNER CEILING FW 1200x600x150 (2 slabs) H2,6	2400x1200x110	6,9120	46,08	64	32	0,2160	1,44	2
BR701501	BOERNER CEILING FW 1200x600x160 (2 slab) H2,6	2400x1200x110	6,4512	40,32	56	28	0,2304	1,44	2
BR701502	BOERNER CEILING FW 1200x600x170 (2 slab) H2,6	2400x1200x110	6,8544	40,32	56	28	0,2448	1,44	2
BR701489	BOERNER CEILING FW 1200x600x180 (2 slab) H2,6	2400x1200x110	6,2208	34,56	48	24	0,2592	1,44	2
BR701503	BOERNER CEILING FW 1200x600x190 (2 slab) H2,6	2400x1200x110	6,5664	34,56	48	24	0,2736	1,44	2
BR701490	BOERNER CEILING FW 1200x600x200 (2 slab) H2,6	2400x1200x110	6,9120	34,56	48	24	0,2880	1,44	2

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: MW-EN13162-T5-DS(70,90)-CS(10)0,5-WS-WL(P)-MU1

Declaration of performance no: BRI/C/BRCFW/2023_04

