MBA Steel facade fixing

Fire-resistant metal insulation fixing

Product information

Features and benefits

- Metal facade fixing, recommended for use when fire resistance (F120) is a requirement
- Fast and simple hammer-set installation reduces working times.
- Extensive dimensional range allows anchorage of insulation boards up to 250mm thick
- Accessory spreader plate, MKC (85mm diameter) also available for installation of soft insulation materials such as mineral wool.

Applications

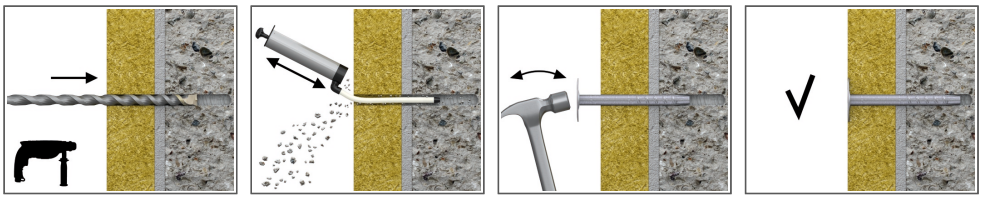
- Mineral wool (MW) boards
- Glass wool
- Lightweight wood wool building boards
- Lightweight recycled panels
- Polystyrene (EPS) boards
- Polyurethane (PU) boards

Base materials

Approved for use in:

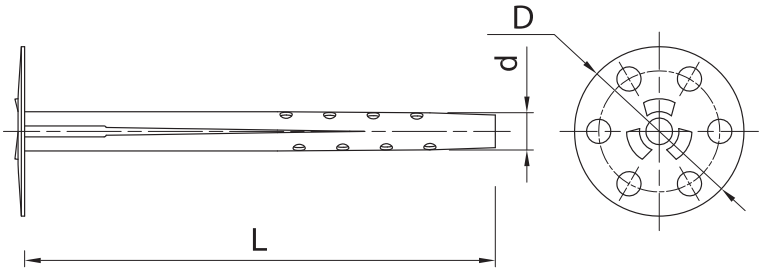
- Concrete C20/25-C50/60 (Use category A)
- Solid Brick (Use category B)
- Solid Sand-lime Brick (Use category B)
- Aerated Concrete Block (Use category D)

Installation guide



1. Drill a hole of required diameter and depth
2. With a hammer, lightly tap MBA fixing (with MKC washer where applicable) through the insulation material into hole, until fixing depth is reached.

Product information



Size	Product Code	Fixing			Fixture
		Diameter	Length	Plate diameter	Max. thickness
		d	L	D	t_{fix}
		[mm]			
Ø8	MBA-08090	8	90	35	40
	MBA-08110	8	110	35	60
	MBA-08140	8	140	35	90
	MBA-08170	8	170	35	120
	MBA-08200	8	200	35	150
	MBA-08250	8	250	35	200
	MBA-08300	8	300	35	250

Installation data

Substrate			A, B	Perforated cera-	Sand-lime hollow	Aerated concre-
Hole diameter in substrate	d_0	[mm]	8	8	8	-
Min. hole depth in substrate	h_0	[mm]	35	60	40	-
Min. installation depth	h_{nom}	[mm]	30	50	30	50
Min. substrate thickness	h_{min}	[mm]	80	80	80	80
Min. spacing	s_{min}	[mm]	75	75	75	75
Min. edge distance	c_{min}	[mm]	75	75	75	75

Basic performance data

Performance data for single anchor without influence of edge distance and spacing

Substrate		Concrete	Solid brick	Sand-lime solid brick	Perforated ceramic brick	Sand-lime hollow brick	Autoclaved aerated concrete
Effective embedment depth h_{ef}	[mm]	30	30	30	50	30	50
MEAN ULTIMATE LOAD $N_{Ru,m}$							
MBA + MKC	[kN]	0.88	0.75	0.80	0.40	0.50	1.05
CHARACTERISTIC LOAD N_{Rk}							
MBA + MKC	[kN]	0.75	0.50	0.60	0.22	0.37	0.82
DESIGN LOAD N_{Rd}							
MBA + MKC	[kN]	0.30	0.20	0.24	0.09	0.15	0.41
RECOMMENDED LOAD N_{rec}							
MBA + MKC	[kN]	0.21	0.14	0.17	0.06	0.10	0.29

Design performance data

Size

Characteristic Resistance under fire exposure in concrete C20/25 to C50/60

Size			
TENSION LOAD			
Edge distance	c_{cr}	[mm]	100.00
Spacing	s_{cr}	[mm]	200.00
R (for EI) = 30 min			
TENSION LOAD			
PULL-OUT FAILURE			
Characteristic resistance	$N_{Rk,p}$	[kN]	0.22
R (for EI) = 60 min			
TENSION LOAD			
PULL-OUT FAILURE			
Characteristic resistance	$N_{Rk,p}$	[kN]	0.22
R (for EI) = 90 min			
TENSION LOAD			
PULL-OUT FAILURE			
Characteristic resistance	$N_{Rk,p}$	[kN]	0.22
R (for EI) = 120 min			
TENSION LOAD			
PULL-OUT FAILURE			
Characteristic resistance	$N_{Rk,p}$	[kN]	0.18

Product commercial data

Size	Product Code	Fixing			Quantity [pcs]			Weight [kg]			Bar Codes
		Diameter [mm]	Length [mm]	Plate diameter [mm]	Box	Outer	Pallet	Box	Outer	Pallet	
Ø8	MBA-08090	8	90	35	250	250	12000	4.2	4.2	232.5	5906675049809
	MBA-08110	8	110	35	250	250	12000	4.9	4.9	262.7	5906675049816
	MBA-08140	8	140	35	250	250	10000	6.2	6.2	279.8	5906675049830
	MBA-08170	8	170	35	250	250	9000	7.3	7.3	294.1	5906675049847
	MBA-08200	8	200	35	250	250	9000	7.7	7.7	308.4	5906675049854
	MBA-08250	8	250	35	125	125	6000	4.9	4.9	265.0	5906675073910
	MBA-08300	8	300	35	125	125	6000	6.1	6.1	321.6	5906675049878
Ø90	R-KFS-90/20				1	15	100	0.25	3.8	55.0	5906675475127