

## Facade Insulation Fixings



# 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)

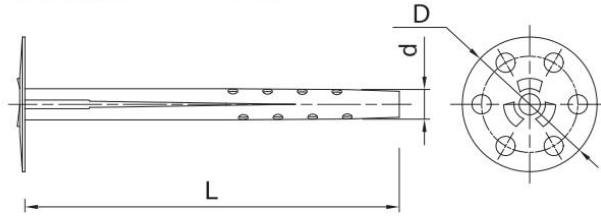
## Installation guide



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.

**Facade Insulation Fixings** **RAWLPLUG®**

**Product information**



Size	Product Code	Fixing			Fixture
		Diameter	Length	Plate diameter	Max. thickness
		d	L	D	t <sub>fix</sub>
[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 <sub>o</sub>	[mm]	8	8	8	-
Min. hole depth in substrate	h <sub>o</sub>	[mm]	35	60	40	-
Min. installation depth	h <sub>soeb</sub>	[mm]	30	50	30	50
Min. substrate thickness	h <sub>sub</sub>	[mm]	80	80	80	80
Min. spacing	s <sub>soeb</sub>	[mm]	75	75	75	75
Min. edge distance	c <sub>soeb</sub>	[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 <sub>ef</sub>	[mm]	30	30	30	50	30	50
MEAN ULTIMATE LOAD N <sub>RCM</sub>							
MBA + MKC	[kN]	0.88	0.75	0.80	0.40	0.50	1.05
CHARACTERISTIC LOAD N <sub>RE</sub>							
MBA + MKC	[kN]	0.75	0.50	0.60	0.22	0.37	0.82
DESIGN LOAD N <sub>RD</sub>							
MBA + MKC	[kN]	0.30	0.20	0.24	0.09	0.15	0.41
RECOMMENDED LOAD N <sub>RC</sub>							
MBA + MKC	[kN]	0.21	0.14	0.17	0.06	0.10	0.29

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### Design performance data

**Size**

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

Size			
<b>TENSION LOAD</b>			
Edge distance	$c_{ef}$	[mm]	100.00
Spacing	$s_{ef}$	[mm]	200.00
<b>R (for EI) = 30 min</b>			
<b>TENSION LOAD</b>			
<b>PULL-OUT FAILURE</b>			
Characteristic resistance	$N_{ktp}$	[kN]	0.22
<b>R (for EI) = 60 min</b>			
<b>TENSION LOAD</b>			
<b>PULL-OUT FAILURE</b>			
Characteristic resistance	$N_{ktp}$	[kN]	0.22
<b>R (for EI) = 90 min</b>			
<b>TENSION LOAD</b>			
<b>PULL-OUT FAILURE</b>			
Characteristic resistance	$N_{ktp}$	[kN]	0.22
<b>R (for EI) = 120 min</b>			
<b>TENSION LOAD</b>			
<b>PULL-OUT FAILURE</b>			
Characteristic resistance	$N_{ktp}$	[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