

## TRUTEK MIA – METAL INSULATION ANCHORS



### Usage:

- The pins with a plate diameter of 35mm are intended for fixing hard boards of fireproof insulation
- Pins with discs with a diameter of 85mm are intended for fixing soft mineral wool insulation boards
- Fixing thermal insulation boards in solid materials such as concrete, silicate block, solid brick and aerated concrete

### Features:

- simple and quick installation in solid surfaces
- Fire-resistant metal fastening
- When installing in aerated concrete, it is not necessary to drill a hole
- Plates with a diameter of 85 mm enable permanent mounting of soft insulations
- Possibility of using plastic plugs

### Pin Material:

MIA pins are made of stainless steel or carbon steel coated with a layer of zinc with a thickness of not less than 5 µm

### Base material:

Concrete class min C16 / 20 to C50 / 60, silicate blocks, solid brick and aerated concrete

### Recommended pull-out capacities in concrete C20/25-C50/60 kg



MIA / MIA SS



Anchor Marking MIA			
Metal Insulation Anchor	Pin Diameter d [mm]	Anchor length L [mm]	Material
MIA	08	090	Carbon Steel
MIA	08	090	Stainless Steel

### Technical Parameters MIA & MIA SS

Product Code	Base Material	Insulation Material	Anchor Diameter	Plater Diameter	Insulation Thickness	Hole Depth	Effective Embedment Depth	Anchor Length
			do [mm]	d [mm]	t <sub>fix</sub> [mm]	h <sub>o</sub> [mm]	h <sub>ef</sub> [mm]	L [mm]
MIA08090	Concrete Block Silicate Solid Brick Aerated Concrete	Hard and soft mineral wool insulation boards, Fireproof Boards	8	35	0-40	100	40	90
MIA08110					30-60	120		110
MIA08140					60-90	150		140
MIA08170					90-120	180		170
MIA08200					120-150	210		200
MIA08250					150-200	260		250
MIA08300					200-250	310		300
MIA80W					85	-		-
MIA08090SS*	Concrete Block Silicate Solid Brick Aerated Concrete	Hard and soft mineral wool insulation boards, Fireproof Boards	8	35	0-40	100	40	90
MIA08110SS*					30-60	120		110
MIA08140SS*					60-90	150		140
MIA08170SS*					90-120	180		170
MIA08200SS*					120-150	210		200
MIA08250SS*					150-200	260		250
MIA08300SS*					200-250	310		300
MIA80WSS*					85	-		-

\*stainless steel version available on request

## Recommended load capacities of MIA anchors in various substrates

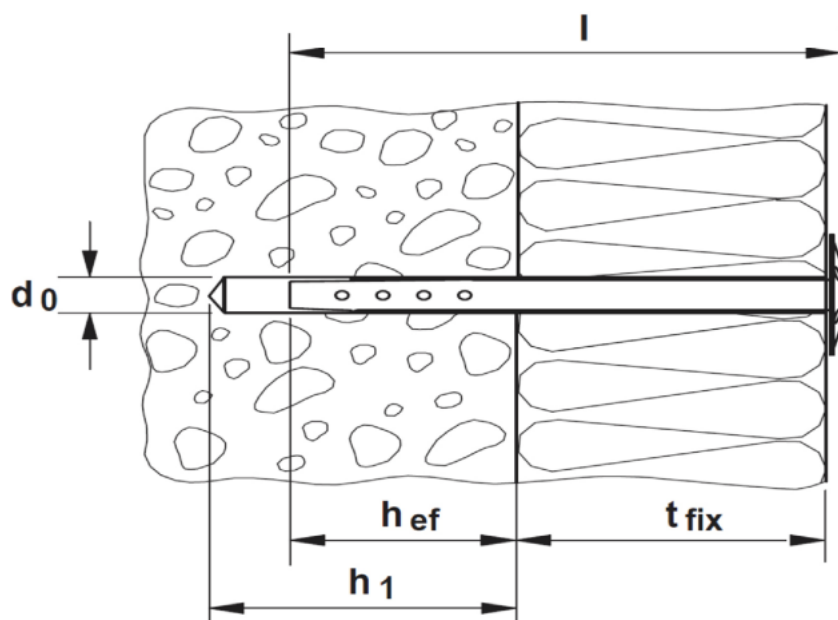
Designation of Anchor	TIF
Effective Embedment Depth $h_{ef}$ [mm]	40
Design Resistance to Tension in Concrete C20/25 $N_{Rd}$ [kN]*	0,1
Anchor Spacing $S_{min}$ [mm]*	120
Edge Distance $C_{min}$ [mm]*	60
Minimum Substrate Thickness $h_{min}$ [mm]*	80
Recommended no. Anchors Per $1m^2$ [szt/ $m^2$ ]	4

\*According to German building supervision permit no Z-21.8-2101

## Fire resistance of MIA Anchors in concrete C20/25 – C50/60

Designation on Anchor	TIF
Effective Embedment Depth $h_{ef}$ [mm]	40
Characteristic pull-out resistance R15-R30 $F_{Rk,fi30}$ [kN]	0,07
Characteristic pull-out resistance R45-R60 $F_{Rk,fi60}$ [kN]	0,07
Characteristic pull-out resistance R90 $F_{Rk,fi90}$ [kN]	0,06
Characteristic pull-out resistance R120 $F_{Rk,fi120}$ [kN]	0,06
Anchor Spacing $S_{Cr,N,fi}$ [mm]*	160
Edge Distance $C_{Cr,N,fi}$ [mm]*	80

## DIAGRAM OF ANCHOR FASTENING MIA



## DIAGRAM OF ANCHOR ASSEMBLY MIA

