

Swiss Quality

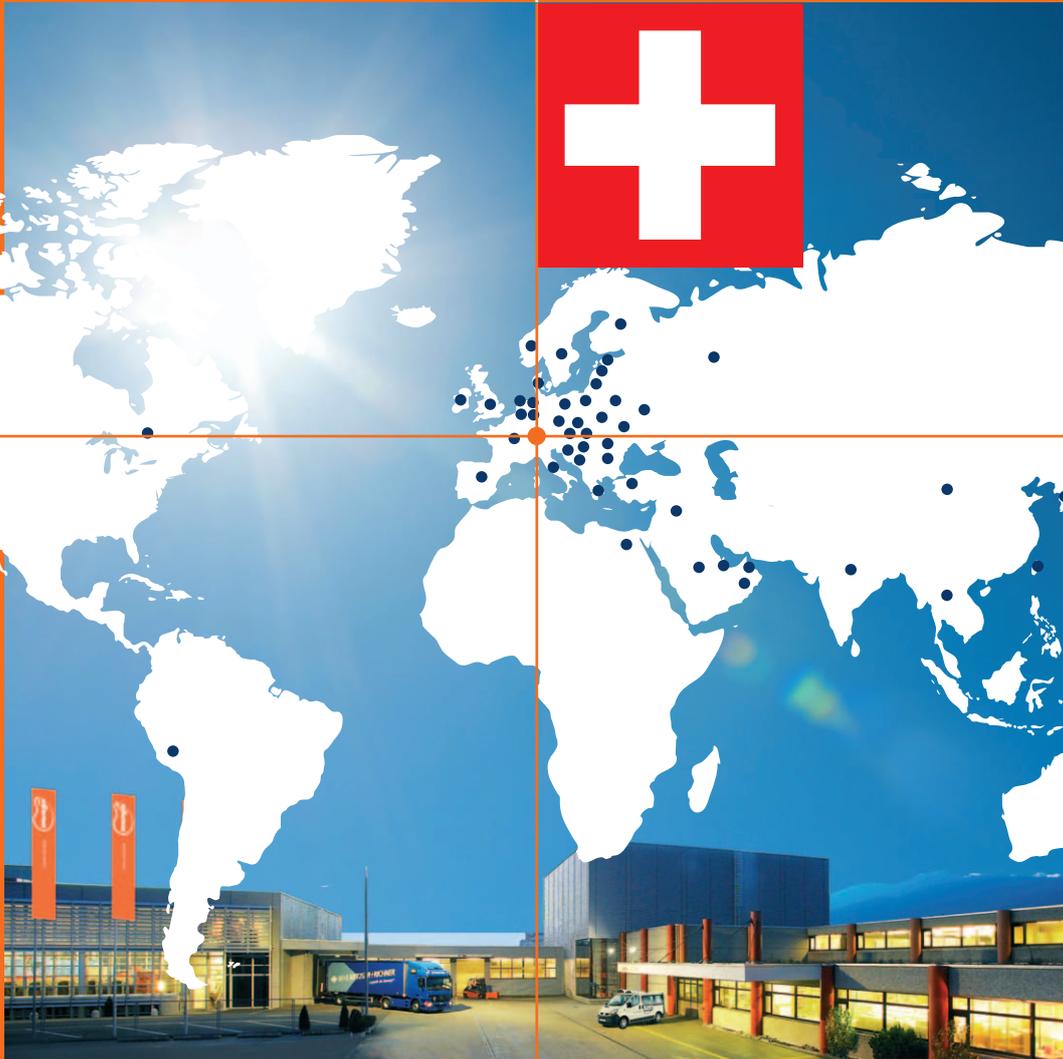


# Fixing solutions for professionals



We bring Swiss Fastening Technology to the world

# Exclusively for you - 10 advantages for professionals



Mungo, formed 1968, is a leading player in the development, manufacturing and distribution of high-quality fastening products that offer added value to professional customers in the construction industry and the building maintenance sector. Mungo's product range includes nylon plugs, metal anchors, chemical fixings, insulation fixings, drill bits and accessories.

- #1 47 years success
- #2 Swiss Quality
- #3 Worldwide market presence
- #4 Our brand name
- #5 Mungo Design software
- #6 Quality assurance is a core competence
- #7 Expert advice
- #8 Comprehensive training courses for users
- #9 Professional sales promotion
- #10 Mungo references demonstrate top performance

# High expertise in production



## Throughbolt production with cold forming techniques

For more than 46 years, Mungo has gained expertise in distribution and manufacturing of throughbolts. With our investment, we have established an important platform in cold forming techniques, that enables our company to play an important role in this worldwide market.

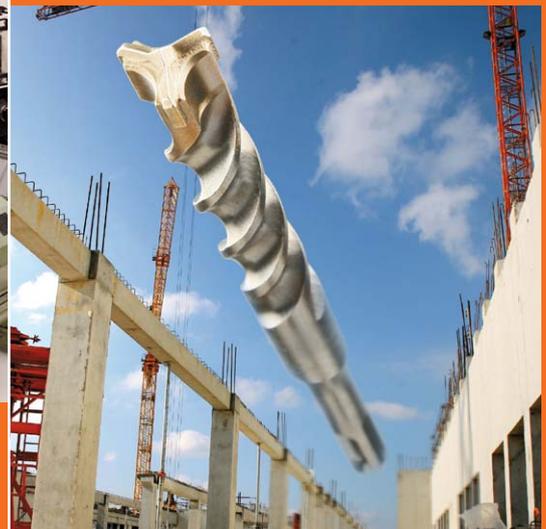
## Mungo injection technology

Mungo MIT injection technology offers stress free heavy duty fixings. The MIT range includes different formulations (epoxy, vinylester, polyester, styrene free) anchor rods and accessories offering optimised solutions for diverse applications and base materials.



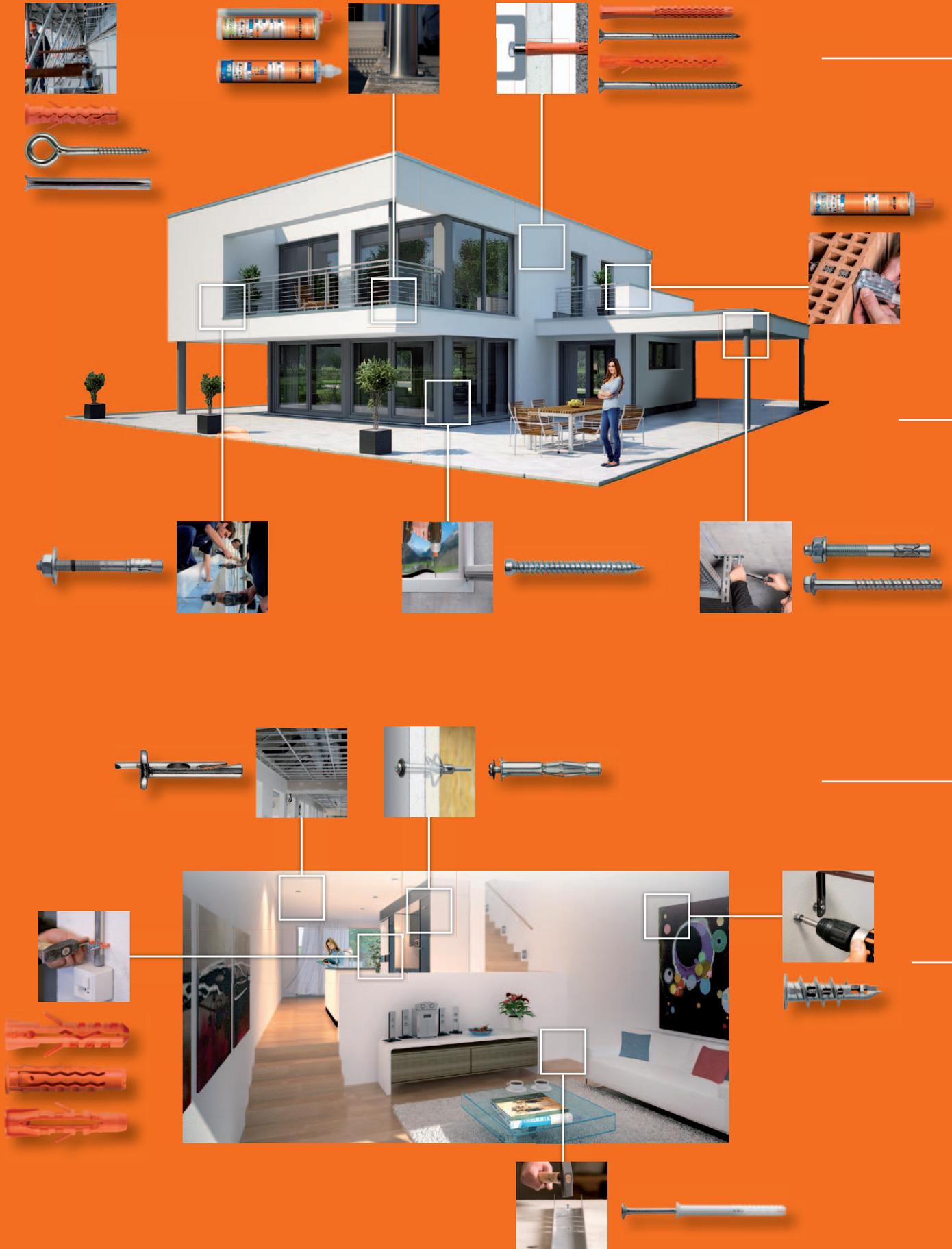
## Nylon products production, injection moulding

Mungo nylon products are made from high-grade polyamide PA6. Due to its excellent characteristics PA6 can be described as the most valuable material in the fastening world.



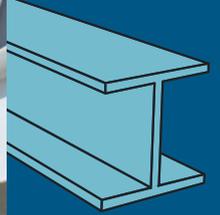
**Power Drill Bits for professionals – developed by and for drilling professionals**  
Robust - Long Life - Precision - Speed

# Tailored solutions for every situation

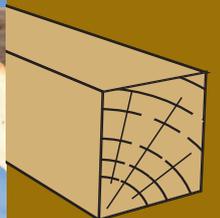


# Our customer segments

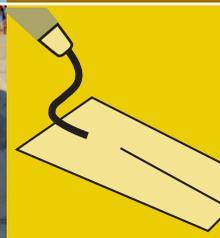
Steel and metal



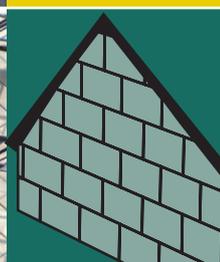
Woodwork



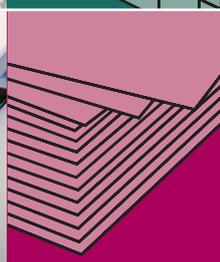
Civil engineering

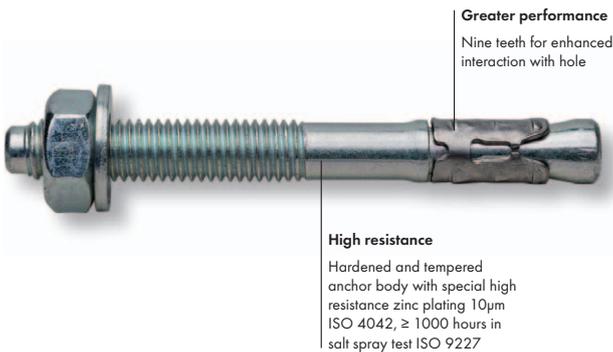
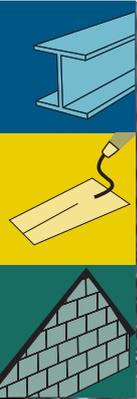


Façade Scaffold



Drywall





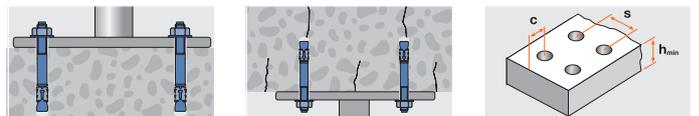
**Features**

- European Technical Approval Option 1 for cracked and non-cracked concrete
- Fire resistance up to F120 is part of the approval
- The anchor may also be used under seismic influence for performance category C1 + C2
- Small edge and spacing distances
- Zinc plated > 10µm
- Pre installation or through fixing
- Indoor applications



**Applications**

steel constructions, profiles, machines, substructures, high-racks, cable trays

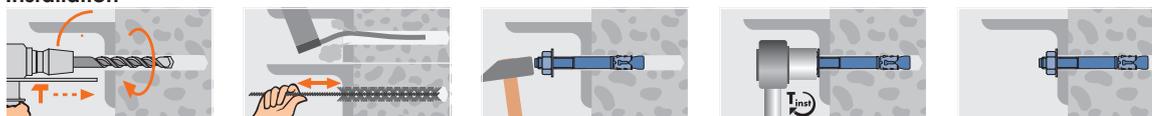


**Technical Data**

	Non-cracked concrete C20/25 tension load (kN)	Cracked concrete C20/25 tension load (kN)	Concrete C20/25 shear load (kN) $c \geq 10x_{ef}$	Bending moment (Nm)	Distance betw. anchors mm	Edge distance mm	Min. distance betw. anchors/at edge distance mm $s_{min}/c$	Min. edge distance/at distance betw. anchors mm $c_{min}/s$	Minimum thickness of concrete member mm $h_{min}$	Installation torque (Nm) $T_{inst}$	Wrench size SW
M8	4.3	2.9	6.2	16	288	144	50/65	50/75	100	20	13
M10	7.6	5.7	11.4	32	360	180	60/80	60/120	120	40	17
M12	9.5	7.6	16.2	56	432	216	70/90	70/150	150	60	19
M16	16.7	9.5	31.4	143	516	258	80/120	85/170	170	120	24

The partial safety factors of the resistances as well as a partial safety factor of the load of  $\gamma_F = 1.4$  are considered / The technical data is only valid for single fixings without consideration of edge and anchor distances / 1 kN ≈ 100 kg

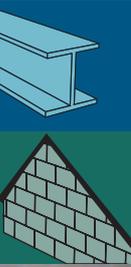
**Installation**



**Available**

Diameter	Usable length	Zinc plated	Material
Ø 8 - 16 mm	4 - 105 mm	●	Stainless steel A4 ●

# m1t-C Throughbolt with big washer DIN 9021



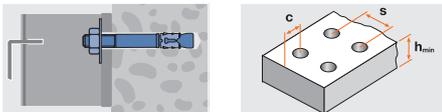
## Features

- European Technical Approval Option 1 for cracked and non-cracked concrete
- Fire resistance up to F120 is part of the approval
- The anchor may also be used under seismic influence for performance category C1 + C2
- Design with an oversized washer according to DIN 9021 for fixings with slotted holes
- Small edge and spacing distances
- Zinc plated > 10µm
- Pre installation or through fixing
- Indoor applications



## Applications

profiles, substructures

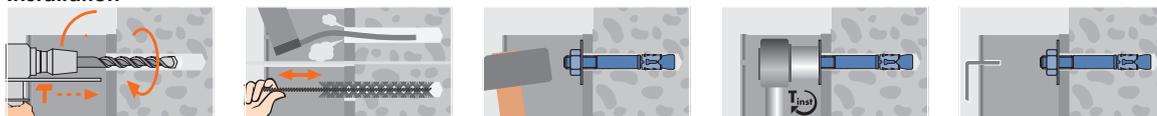


## Technical Data

	Non-cracked concrete C20/25 tension load (kN)	Cracked concrete C20/25 tension load (kN)	Concrete C20/25 shear load (kN) $c \geq 10x_d$	Bending moment (Nm)	Distance betw. anchors mm	Edge distance mm	Min. distance betw. anchors/at edge distance mm $s_{min}/c$	Min. edge distance/at distance betw. anchors mm $c_{min}/s$	Minimum thickness of concrete member mm $h_{min}$	Installation torque (Nm)	Wrench size
					s	c				$T_{inst}$	SW
M8	4.3	2.9	6.2	16	288	144	50/65	50/75	100	20	13
M10	7.6	5.7	11.4	32	360	180	60/80	60/120	120	40	17

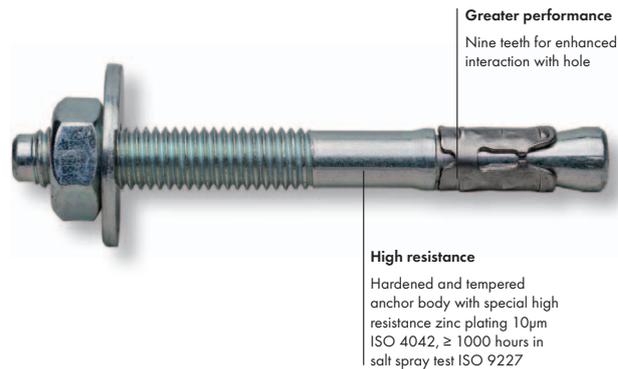
The partial safety factors of the resistances as well as a partial safety factor of the load of  $\gamma_F = 1.4$  are considered / The technical data is only valid for single fixings without consideration of edge and anchor distances / 1 kN  $\approx$  100 kg

## Installation



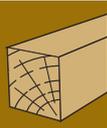
## Available

Diameter	Usable length	Zinc plated	Material
Ø 8-10 mm	10 mm	●	Stainless steel A4 ● (Ø 8 mm)



**Greater performance**  
Nine teeth for enhanced interaction with hole

**High resistance**  
Hardened and tempered anchor body with special high resistance zinc plating 10µm ISO 4042,  $\geq$  1000 hours in salt spray test ISO 9227



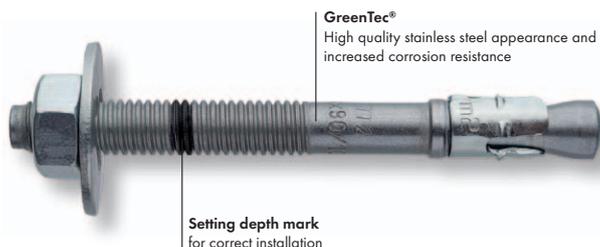
## Features

- European Technical Approval Option 7 for non-cracked concrete
- With a big DIN 9021 washer for fixings with slotted holes and for wooden structures
- Torque controlled expansion
- Zinc plated > 5µm
- Pre installation or through fixing
- Indoor applications



## Applications

wooden constructions, distance fixing

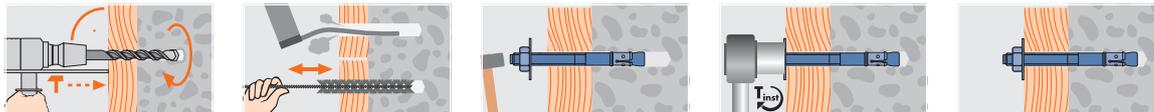


## Technical Data

	Concrete C20/25 tension load (kN)	Concrete C20/25 shear load (kN)	Bending moment (Nm)	Distance betw. anchors mm	Edge distance mm	Min. distance betw. anchors/at edge distance mm	Min. edge distance/at distance betw. anchors mm	Minimum thickness of concrete member mm	Installation torque (Nm)	Wrench size
				s	c	s <sub>min</sub> /c	c <sub>min</sub> /s	h <sub>min</sub>	T <sub>inst</sub>	SW
M8	5.7	3.9	14.3	150	75	50/90	50/100	100	15	13
M10	7.6	6.2	28.5	174	87	60/115	60/120	120	30	17
M12	8.3	8.4	46.8	204	102	75/150	100/150	140	50	19
M16	9.9	15.7	118.6	240	120	100/190	130/190	160	100	24

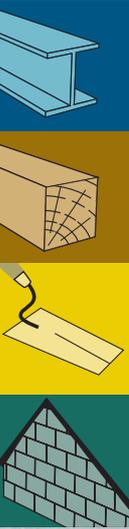
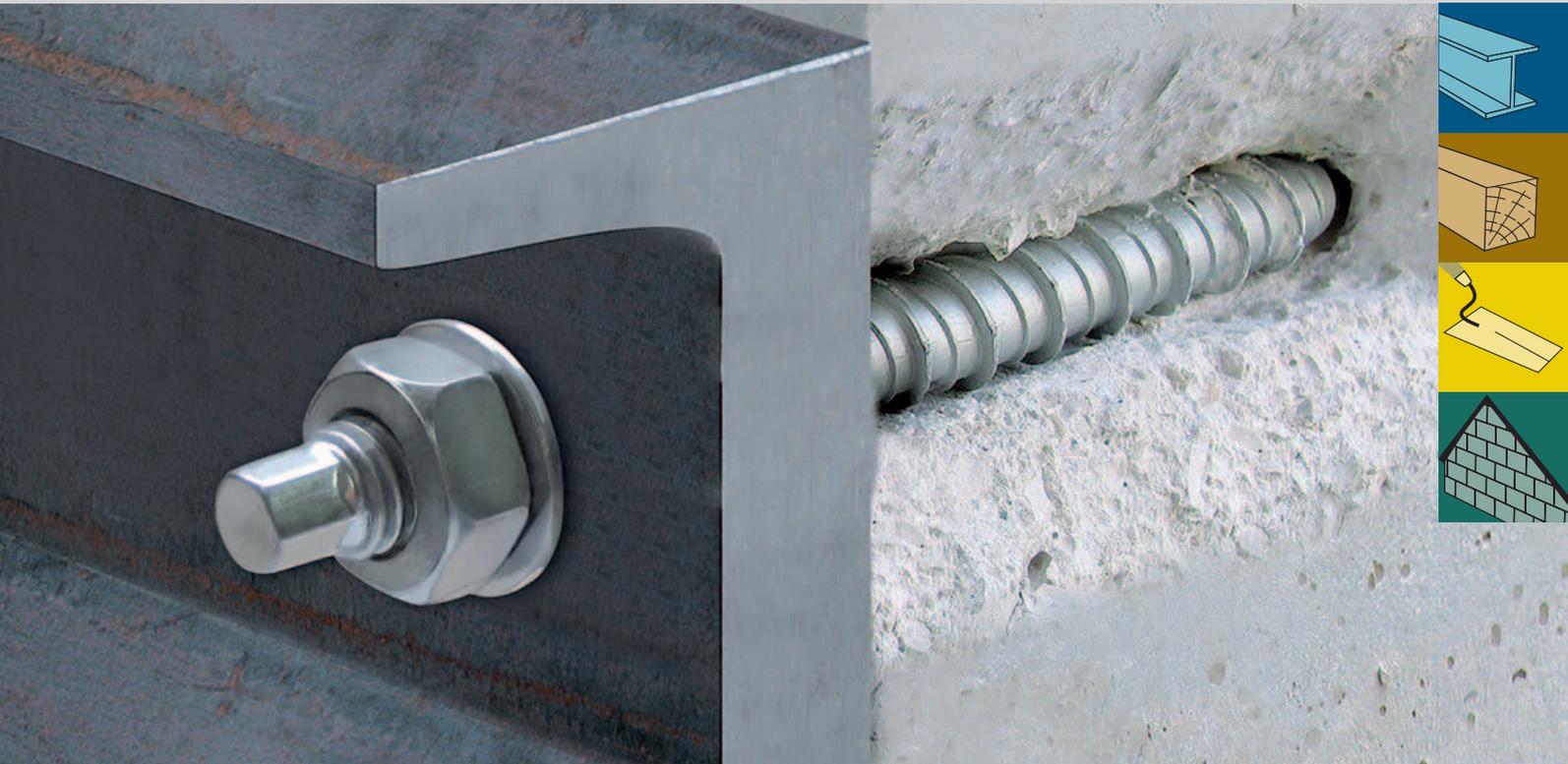
The partial safety factors of the resistances as well as a partial safety factor of the load of  $\gamma_F = 1.4$  are considered / The technical data is only valid for single fixings without consideration of edge and anchor distances / Only valid for setting depths according to approval / 1 kN  $\approx$  100 kg

## Installation



## Available

Diameter	Usable length	Material		also available in craftsman fasteners box 30 x 20 x 12.5 cm
		Zinc plated	Stainless steel A4	
Ø 8-16 mm	5 - 325 mm	●	● (Ø 8-10 mm)	



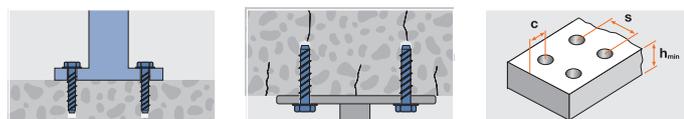
## Features

- European Technical Approval Option 1 for cracked and non-cracked concrete
- Fire resistance test certification F120
- Easy screw in due to special thread
- Small edge and spacing distances
- User-friendly, time-saving installation
- Stress-free fastening
- Easy to disassemble
- Zinc plated > 5µm
- Through fixing
- Indoor applications



## Applications

railings, substructures, profiles, steel constructions, wooden constructions, ventilation systems

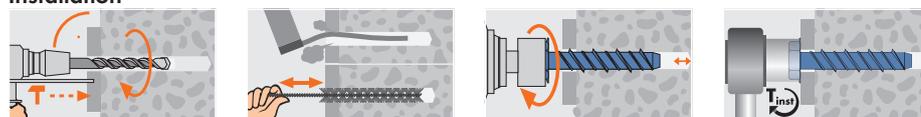


## Technical Data

	Non-cracked concrete C20/25 tension load (kN)	Cracked concrete C20/25 tension load (kN)	Concrete C20/25 shear load (kN)	Min. distance betw. anchors mm $s_{min}$	Min. edge distance mm $c_{min}$	Minimum thickness of concrete member mm $h_{min}$	Installation torque (Nm) $T_{inst}$	Wrench size	
								MCS-A-S, SW	MCS-A-ST, SW
Ø 8/6	5.4	1.4	4.5	45	45	100	20	10	13
Ø 10/8	7.9	3.0	9.6	50	50	110	50	13	17
Ø 12/10	8.5	3.1	15.4	60	60	130	80	15	-
Ø 16/14	13.6	5.4	27.1	80	80	170	160	21	-

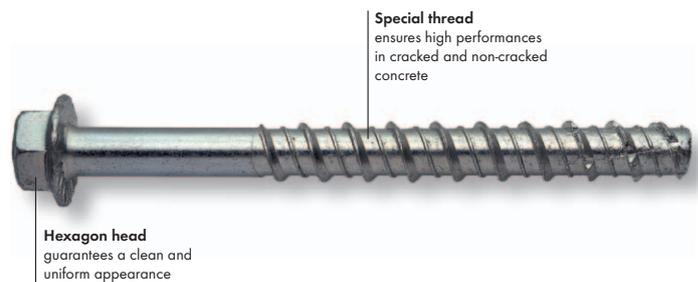
The partial safety factors of the resistances as well as a partial safety factor of the load of  $\gamma_F = 1.4$  are considered / The technical data is only valid for single fixings without consideration of edge and anchor distances / Only valid for setting depths according to approval / 1 kN ≈ 100 kg

## Installation

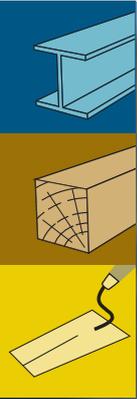


## Available

Diameter	Usable length	Material		Head / Diameter		
		Zinc plated	Stainless steel A4	MCS-A-S	MCS-A-ST	MCS-A-SK
Ø 8 - 16 mm	10 - 210 mm	●	-	 Ø 8 - 16 mm	 Ø 8 - 10 mm	 Ø 8 - 10 mm



# MRS Wall Screw

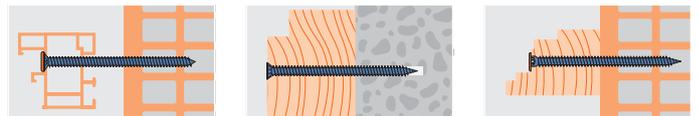


## Features

- Only 6mm pre-drilling required
- User-friendly, time-saving installation
- Small edge and spacing distances
- Stress-free fastening
- Low torque required
- Also suitable for wood-wood connection
- Zinc plated > 5µm
- Through fixing
- Indoor applications

## Applications

wooden constructions, windows, frames



## Technical Data

	Tension load (kN) edge distance > 30mm	Shear load (kN) edge distance > 30mm	Shear load (kN) edge distance > 60mm	Bending moment (Nm)	Installation torque (Nm)	Drilling hole Ø mm	Drilling depth mm	Setting depth mm
						$d_d$	$h_d$	$h_{set}$
MRS Concrete	1.2	0.8	1.6	17	20	6	40	30
MRS Brick	0.8	0.5	1.2	17	15	6	50	40
Perforated Brick	0.2	0.2	0.5	17	10	6	70	60
MRS L'weight concrete	0.2	0.1	0.3	17	5	-	-	60

1 kN ≈ 100 kg / Safety factor of 5 is included / Without hammer drill in perforated brick / No pre-drilling in lightweight concrete / Thickness of concrete member; screw length minus setting depth

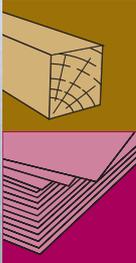
## Installation



## Available

Diameter	Screw length	Material		Head		Accessories
		Zinc plated	Stainless steel A4	Ø 8.3 mm	Ø 11.5 mm	
Ø 7.5 mm	40 - 320 mm	●	-	●	●	

# MAN Ceiling Anchor



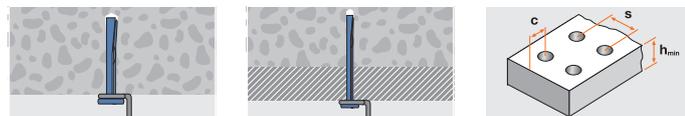
## Features

- Approved for multiple fixings of light weight suspended ceilings according to DIN 18168, also in cracked concrete
- Fire resistance up to F120 is part of the approval
- For fast to install ceiling systems
- Suitable for overhead fixings
- Simple setting process by flush hitting of overlaying pin
- Available in up to 35 mm usable length for applications with wooden slats
- Zinc plated > 5µm
- Through fixing
- Indoor applications



## Applications

suspended ceilings, wire hanger, substructures, profiles, ventilation systems



## Technical Data

	Concrete C20/25 - C50/60 tension load (kN)	Bending moment (Nm)	Min. distance betw. anchors mm	Min. edge distance mm	Minimum thickness of concrete member mm
			$s_{min}$	$c_{min}$	$h_{min}$
MAN	1.4	3.0	200	150	80

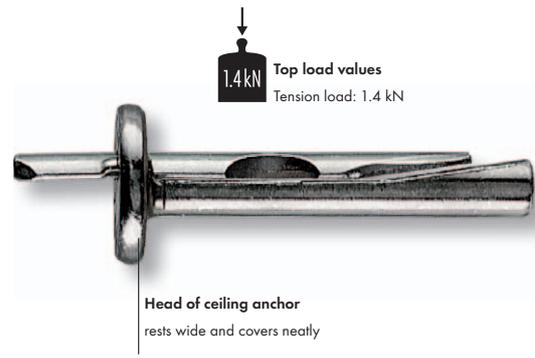
The partial safety factors of resistances as well as a partial safety factor of the load of  $\gamma_F = 1.4$  are considered / 1 kN  $\approx$  100 kg

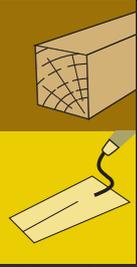
## Installation



## Available

Dimension	Usable length	Material	
		Zinc plated	Stainless steel A4
6 x 40 mm	5 mm	●	-
6 x 70 mm	35 mm	●	-





**Features**

- Economical installation
- No screw and plug required
- Through fixing with the Metal Disc, the MEN is appropriate for overhead installation of insulation
- Zinc plated > 5µm
- Through fixing
- Indoor applications



**Applications**

squared timbers, substructures, profiles



**Technical Data**

	Concrete C20/25 tension load (kN)	Brick tension load (kN)
MEN 5	0.3	-
MEN 6	0.7	0.5
MEN 8	1.0	0.8

Safety factor of 3 is included / 1 kN ≈ 100 kg / Perforated Brick: The pull-out values should be determined on the bases of the application as they are dependent on the pull-out values in the brick/block

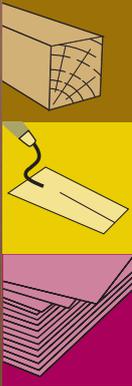
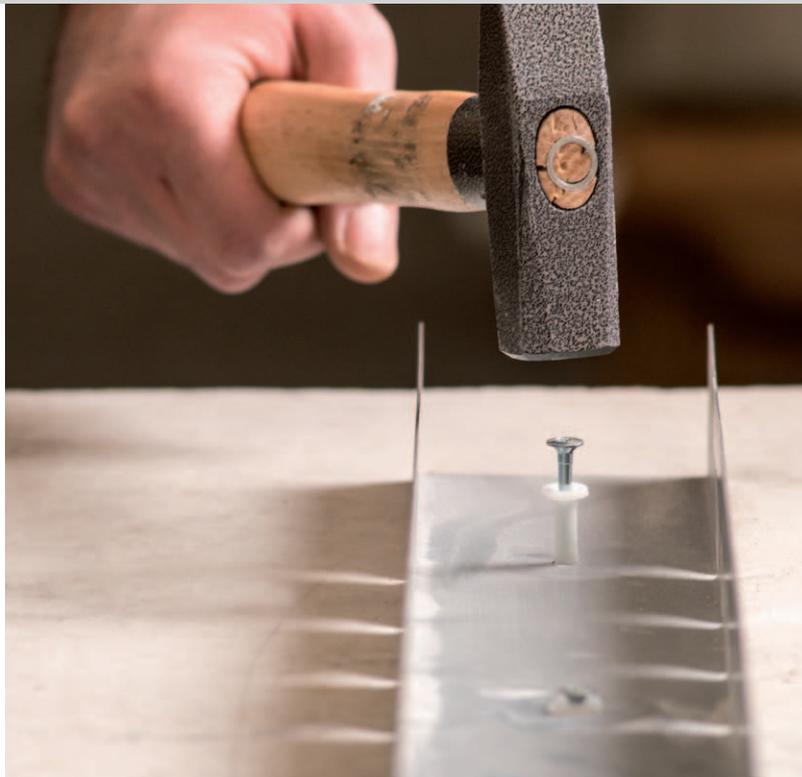
**Installation**



**Available**

Diameter	Usable length	Material		Accessories
		Zinc plated	Stainless steel A4	
Ø 5-8 mm	3 - 140 mm	●	-	Ø 38 / 70 mm 

# MNA Hammer Screw



## Features

- Quick and simple installation
- Plug made from high-quality polyamide PA6
- Through fixing
- Indoor (zinc plated) and outdoor (stainless steel) applications



## Applications

wooden constructions, skirtings, profiles, frames

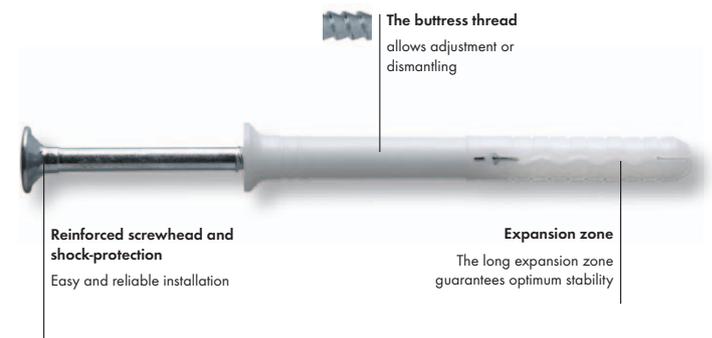
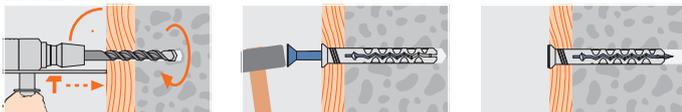


## Technical Data

	Concrete C20/25 Tension load (kN)	Brick Tension load (kN)	Sandstone Tension load (kN)
MNA 5	0.25	0.2	0.15
MNA 6	0.3	0.25	0.2
MNA 8	0.4	0.3	0.25
MNA 10	0.5	0.4	0.3

Safety factor of 5 is included / 1 kN ≈ 100 kg

## Installation



## Available

Diameter	Usable length	Head / Material				Accessories	
		-S (countersunk)	-Z (cylindrical)	-G (large)	Zinc plated		
Ø 5-10 mm	2 - 110 mm	Zinc plated	Stainl. steel A2	Zinc plated	Stainl. steel A2	Zinc plated	
Ø 5-10 mm		●	●	●	●	●	
Ø 5-10 mm		●	●	●	●	●	
Ø 5-10 mm		●	●	●	●	●	
Ø 5-10 mm		●	●	●	●	●	
Ø 5-10 mm		●	●	●	●	●	
Ø 5-10 mm		●	●	●	●	●	

# MIT-SE Plus Vinylester mortar, styrene free

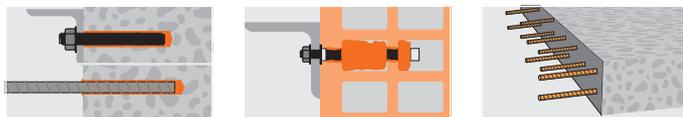
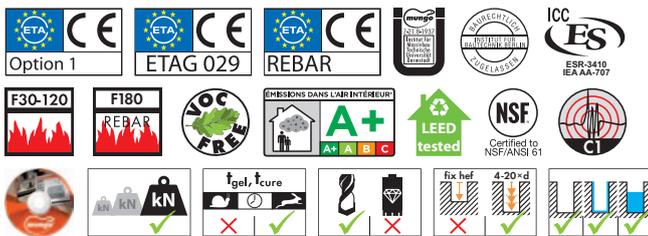


## Features

- European Technical Approval Option 1 for cracked and non-cracked concrete with anchor rod and with rebar used as anchor
- European Technical Approval according to ETAG 029 for use in masonry
- European Technical Approval for post-installed rebar connections
- German National Approval for post-installed rebar connections
- ICC-ES Report ESR-3410
- Fire resistance test certification F30-F120 (F180 Rebar)
- VOC free according to Swiss legislation and certified A+ according to DEVL 1101903D / DEVL 1104875A
- LEED - Test Report
- Certification for drinking water systems
- May also be used under seismic influence for performance category C1
- Universal mortar for highest loads in almost all building materials
- Application also in damp and water-filled drill holes
- Variable setting depth
- Suitable for overhead fixings
- Simple and speedy working
- Styrene free and low odour
- Colour of mortar: grey
- Indoor (zinc plated) and outdoor (stainless steel) applications

## Applications

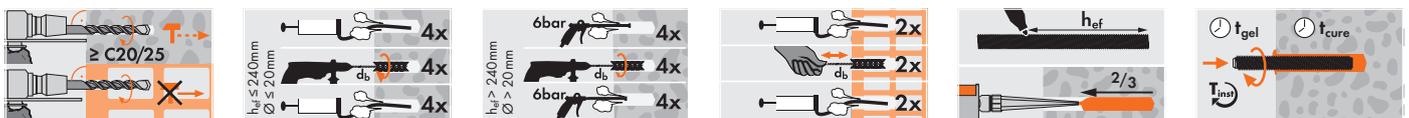
post-installed rebar connections, steel constructions, wooden constructions, façades, façade scaffolds, railings, high-racks, machines, staircases, ladders, cable trays, canopies, hand-rails, consoles



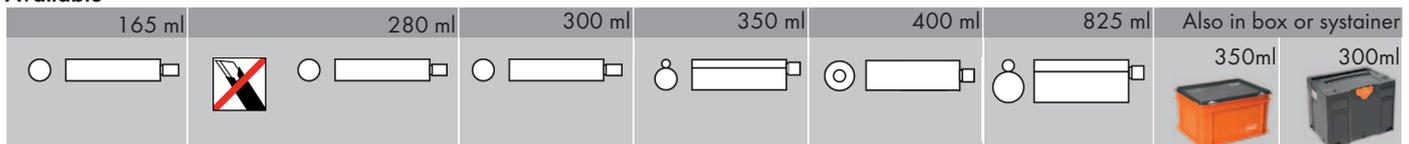
## Temperatures

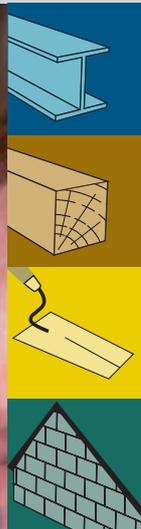
	≥ -10°C	≥ -5°C	≥ +0°C	≥ +5°C	≥ +10°C	≥ +20°C	≥ +30°C	≥ +35°C	≥ +40°C
Working time, in minutes (Min.) t <sub>gel</sub>	90	90	45	25	15	6	4	2	1.5
Curing time, dry in minutes (Min.) t <sub>cure</sub>	24 h	14 h	7 h	2 h	90	45	25	20	15
Curing time, wet in minutes (Min.) t <sub>cure</sub>	48 h	28 h	14 h	4 h	3 h	90	50	40	30

## Installation



## Available





## Features

- European Technical Approval Option 7 for non-cracked concrete with anchor rod and with rebar used as anchor
- European Technical Approval according to ETAG 029 for use in masonry
- VOC free according to Swiss legislation and certified A+ according to DEVL 1101903D / DEVL 1104875A
- LEED - Test Report
- Suitable for assemblies in perforated brick with sleeve
- Low odour
- Colour of mortar: grey
- Indoor (zinc plated) and outdoor (stainless steel) applications



## Applications

light steel constructions, frames, gates, light duty applications



## Temperatures

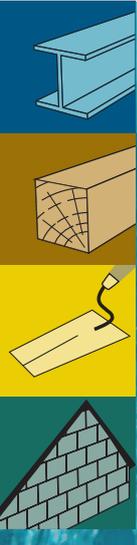
	-5+0°C	0+5°C	5+10°C	10+20°C	20+30°C	30+35°C	>35°C
Working time, in minutes (Min.) $t_{gel}$	90	45	25	15	6	4	2
Curing time, in minutes (Min.) $t_{cure}$	6 h	3 h	2 h	80	45	25	20

## Installation



## Available

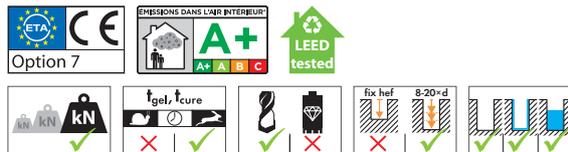
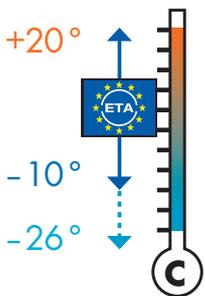
300 ml	350 ml	400 ml	Also in systainer 300ml



### Features

- European Technical Approval Option 7 for non-cracked concrete with anchor rod and with rebar used as anchor (-10°C to +20°C)
- VOC free according to Swiss legislation and certified A+ according to DEVL 1101903D / DEVL 1104875A
- Application also in damp and water-filled drill holes
- Variable setting depth
- Stress-free fastening
- Low odour
- Colour of mortar: dark grey
- Indoor (zinc plated) and outdoor (stainless steel) applications

Can be used when ground temperature falls to -26°C



### Applications

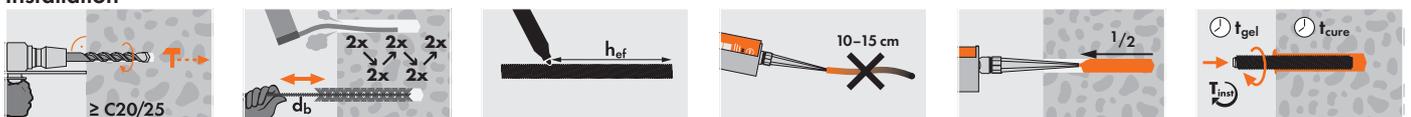
steel constructions, wooden constructions, façades, railings



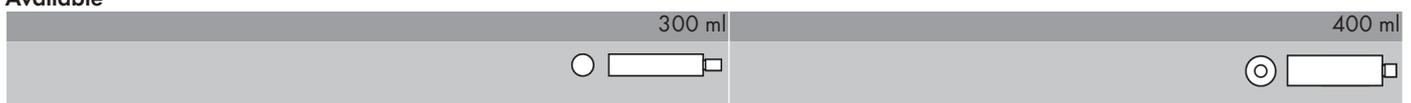
### Temperatures

	-10÷-5°C	-5÷0°C	0÷5°C	5÷20°C	+20°C
Working time, in minutes (Min.) $t_{gel}$	50	15	10	5	100 sec
Curing time, in minutes (Min.) $t_{cure}$	12 h	100	75	50	20

### Installation



### Available



# MIT Accessories

## MIT-PP-H Manual Injection Gun



### Easy-Press

- Easy and smooth grout injection
- Effortless application
- Automatic release
- Ergonomic, lightweight and robust
- Comfortable grip even when wearing gloves

### Applications

sporadic and frequent applications

## MIT-PP-A Cordless Injection Gun



### Features

- Effortless injecting even at low temperatures or deep anchor holes
- Automatic pressure release to avoid chemical material dropping out
- Lithium ion battery 10.8 V / 1.5 Ah lasts up to 35 cartridges
- Recharges in 30 minutes

### Applications

frequent and repetitive applications

## MIT-PP-P Pneumatic Injection Gun



### Features

- For increased productivity on large sites
- Effortless application
- Lightweight and easy to use
- Automatic release
- Low air consumption

### Applications

repetitive applications

## MIT-R Accessories for cleaning drill holes



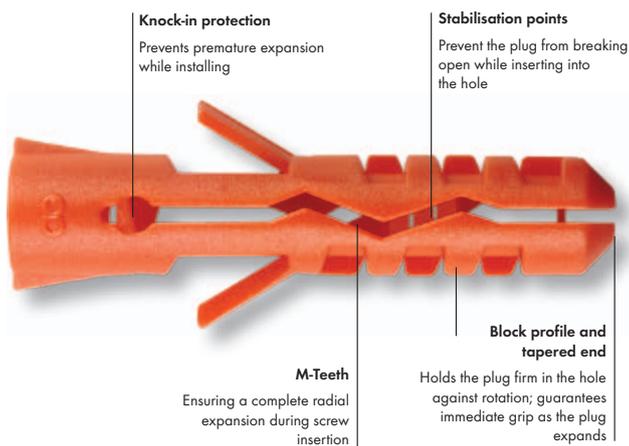
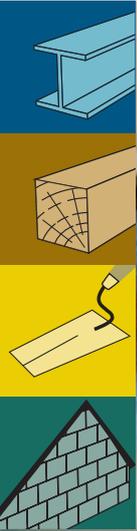
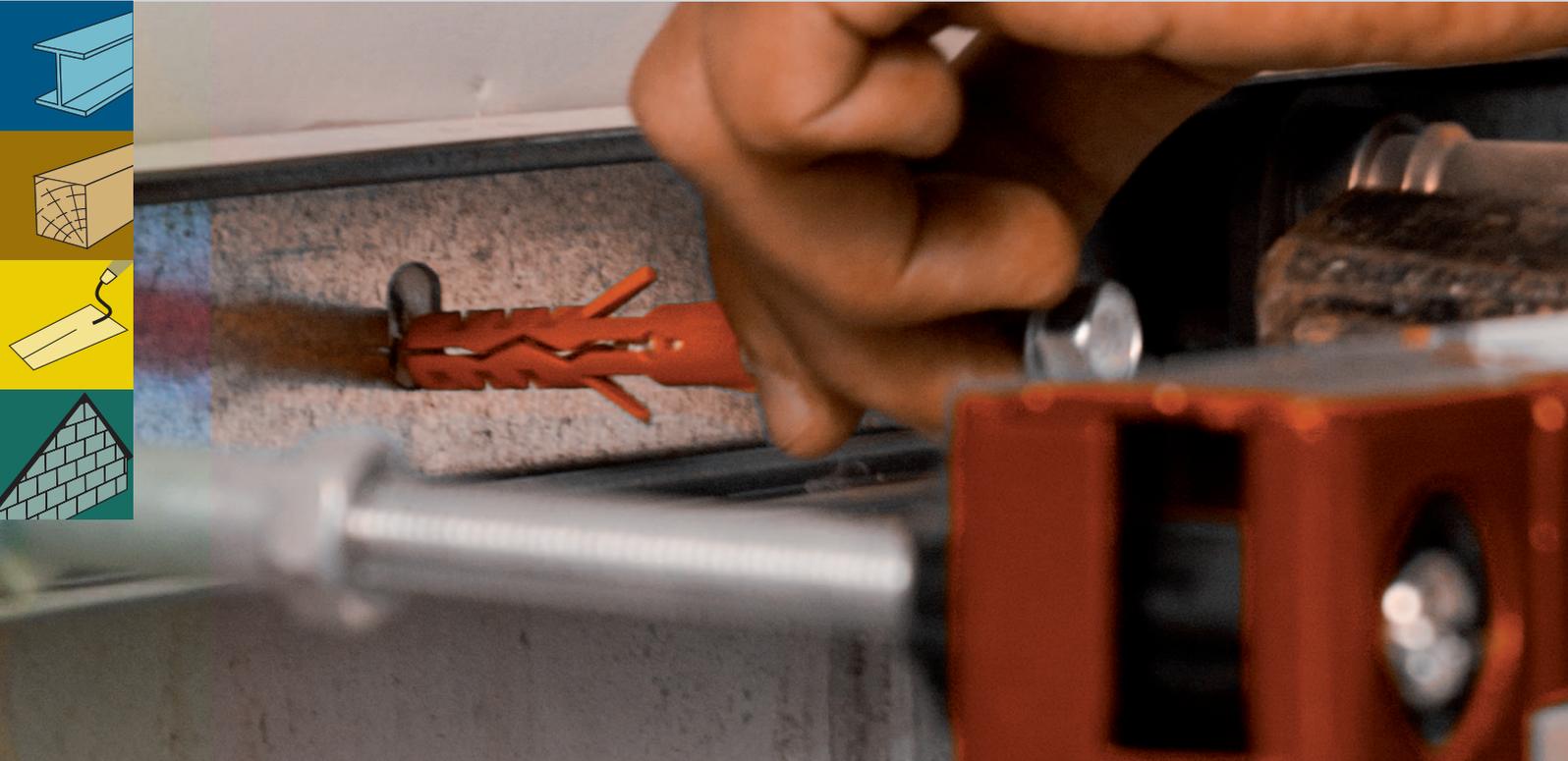
## MIT-V Accessories for filling drill holes



## MIT-GS Threaded rod, Anchor rod, Anchor Sleeve with internal thread



# MN Nylon Plug – for solid building materials



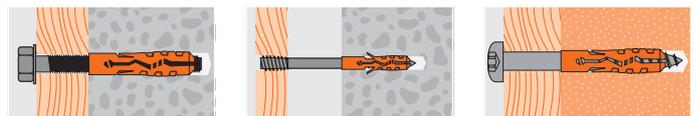
## Features

- Can be used with wood screws, chipboard screws and metric screws
- Suitable for use in most kinds of building materials, especially in solid building materials
- Made from high-quality polyamide PA6
- Pre installation or through fixing
- Indoor and outdoor applications



## Applications

pictures, lamps, holders, profiles, substructures, electric switches, rails

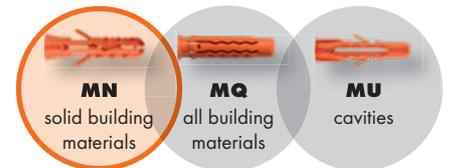
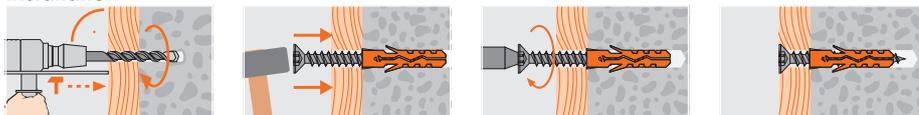


## Technical Data

	Concrete C20/25 tension load (kN)	Brick tension load (kN)	Lightweight Concrete tension load (kN)
MN 4	0.25	0.1	0.02
MN 5	0.35	0.2	0.04
MN 6	0.6	0.4	0.06
MN 7	0.7	0.55	0.07
MN 8	0.85	0.6	0.09
MN 10	1.4	0.8	0.2
MN 12	1.8	1.0	0.4
MN 14	2.6	1.3	0.5
MN 15	2.9	1.5	0.6
MN 16	3.2	1.7	0.6
MN 20	5.2	1.9	1.0

Reached with max. diameter wood screw / Safety factor of 5 is included / 1 kN ≈ 100 kg

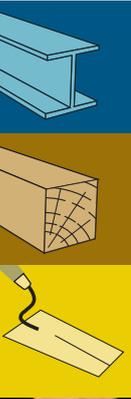
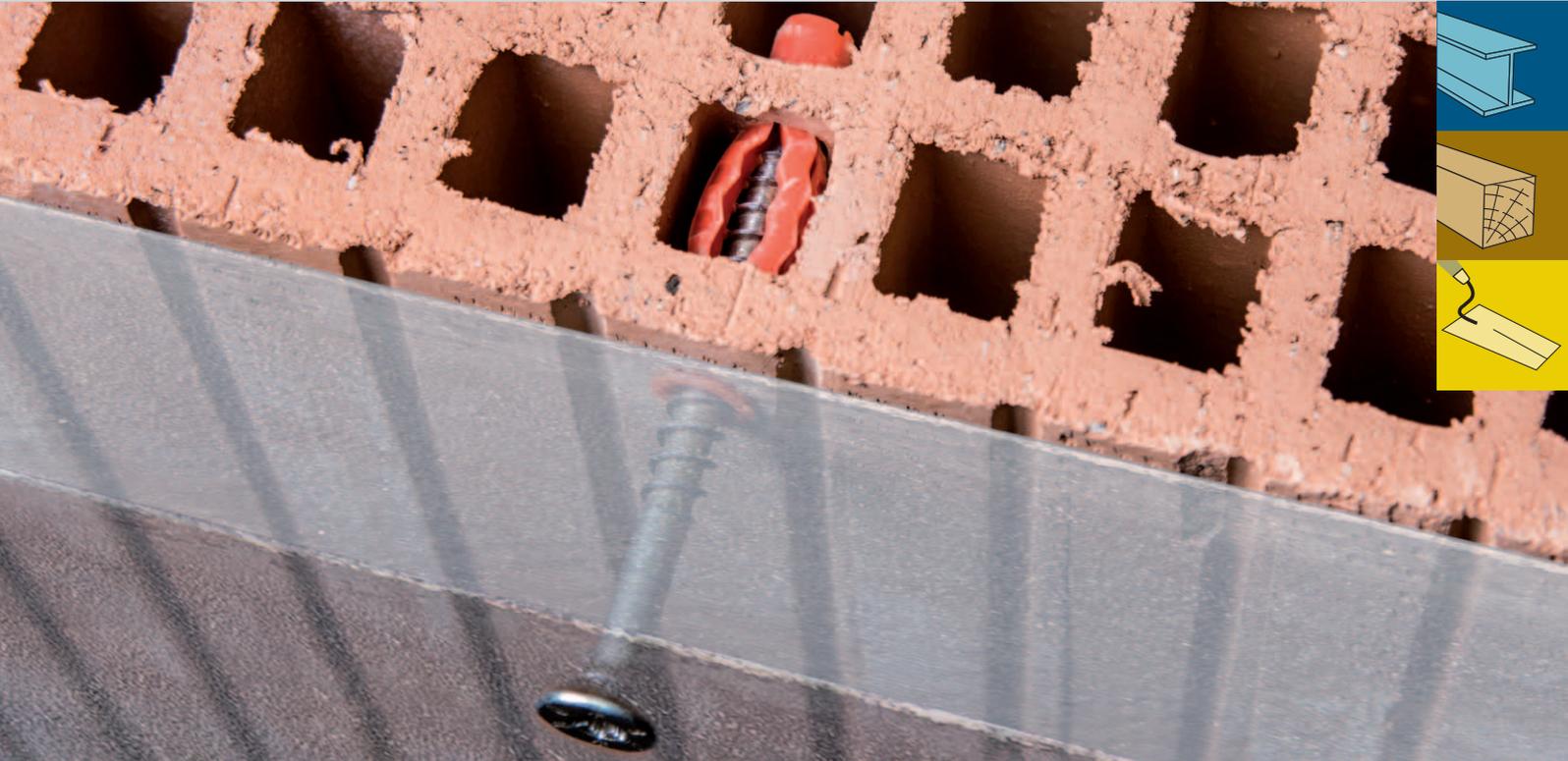
## Installation



## Available

Diameter	also available in craftsman fasteners boxes	
Ø 4-20 mm	30 x 20 x 12.5 cm	40 x 30 x 23.5 cm





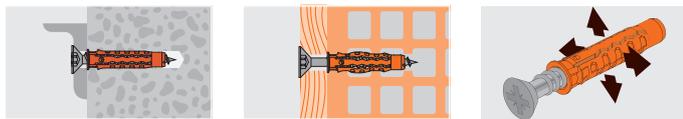
## Features

- For use in all kinds of building materials
- Highest possible retaining values in the lower and middle load area; particularly suitable for applications with chipboard screws
- Collar prevents the plug from being pushed into deeper holes
- Reduced installation time; special plug geometry allows ease of entry into the drill hole
- Made from high-quality polyamide PA6
- Pre installation
- Indoor and outdoor applications



## Applications

holders, electric switches, pictures, lamps, profiles, substructures, rails



### Rotation resistance

stops the plug rotating in the drill hole



### Knock-in protection

prevents premature expansion while installing

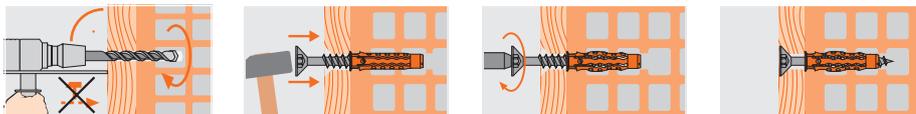


## Technical Data

	Concrete C20/25 tension load (kN)	Brick tension load (kN)	Aerated Concrete tension load (kN)	Sandstone tension load (kN)	Perforated Brick tension load (kN)
MQ 5	0.45	0.45	0.12	0.45	<sup>1)</sup> 0.15
MQ 6	1.10	0.90	0.12	0.70	<sup>1)</sup> 0.20
MQ 8	1.2	1.00	0.19	1.00	<sup>1)</sup> 0.40
MQ 10	1.9	1.10	0.30	1.80	<sup>1)</sup> 0.45
MQ 12	2.7	1.50	0.40	2.10	0.50
MQ 14	3.0	1.80	0.55	2.30	0.60

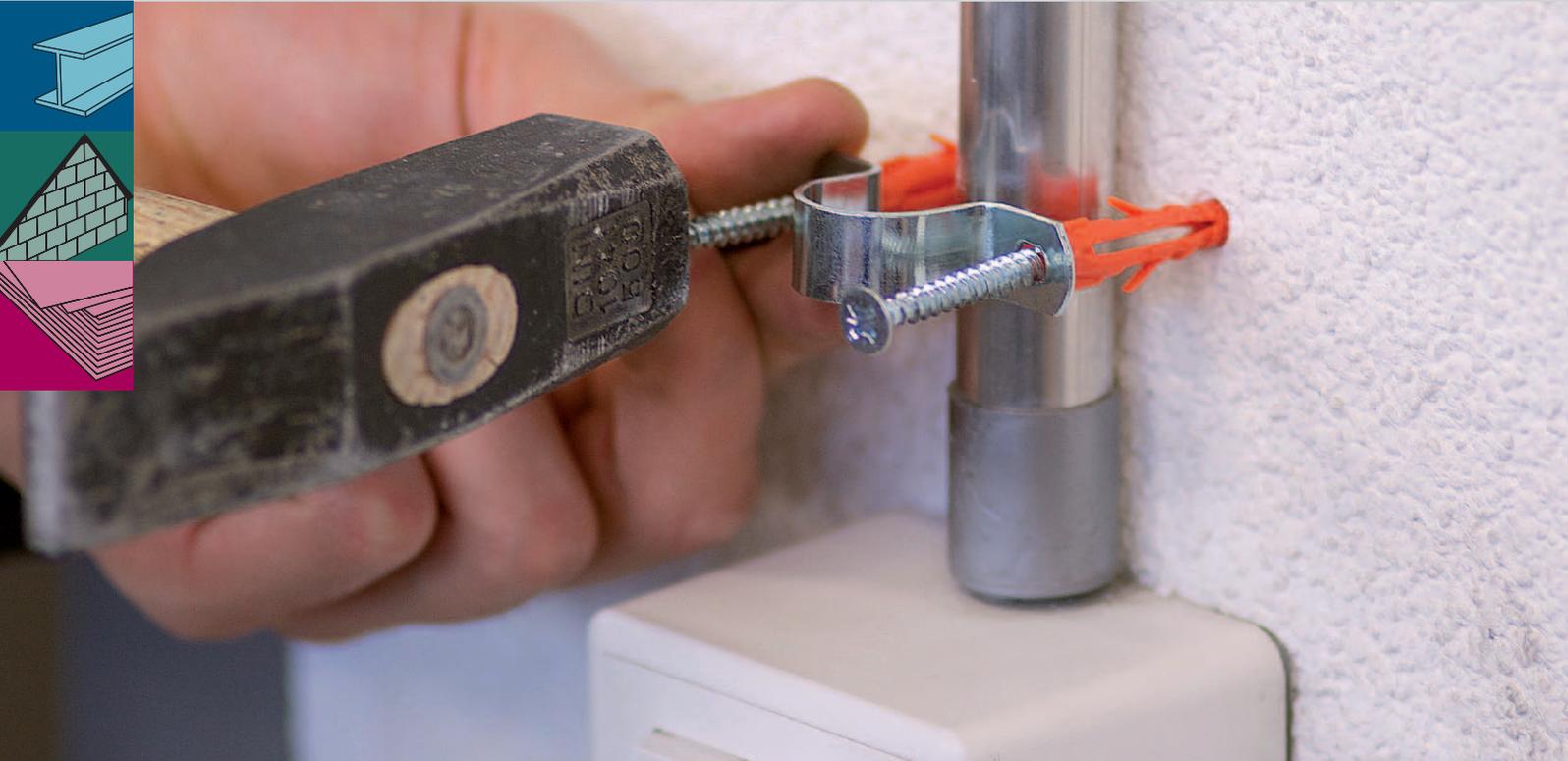
Reached with max. diameter wood screw / Safety factor of 5 is included / 1 kN ≈ 100 kg / 1) Chipboard screw

## Installation



## Available

Diameter	also available in craftsman fasteners boxes	
Ø 5-14 mm	30 x 20 x 12.5 cm	40 x 30 x 23.5 cm



### Collar

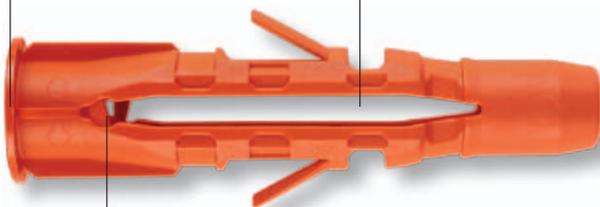
Automatic collar detachment makes the plug multifunctional

### Self tensioning

stops the plug rotating in the drill hole

### Knock-in protection

prevents premature expansion while installing



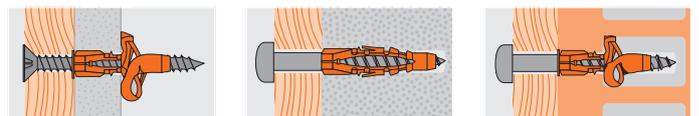
### Features

- Particularly suitable for cavities
- Can be used with wood screws, chipboard screws and metric screws
- Made from high-quality polyamide PA6
- Pre installation or through fixing
- Indoor and outdoor applications



### Applications

holders, electric switches, rails, pictures, lamps, substructures, profiles

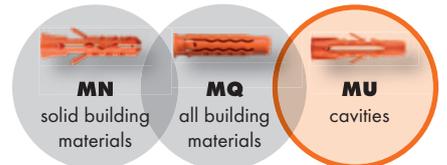
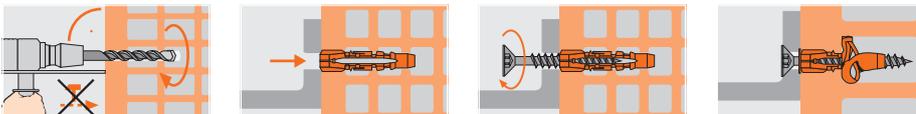


### Technical Data

	Concrete C20/25 tension load (kN)	Perforated Brick tension load (kN)	Lightweight Concrete tension load (kN)	Plasterboard tension load (kN)	Chipboard tension load (kN)
MU 6	0.6	0.2	0.05	<sup>1)</sup> 0.15	<sup>1)</sup> 0.4
MU 8	0.8	0.3	0.1	<sup>1)</sup> 0.18	<sup>1)</sup> 0.45
MU 10	1.2	0.4	0.2	<sup>1)</sup> 0.2	<sup>1)</sup> 0.6
MU 12	1.7	0.6	0.3	-	-
MU 14	2.1	0.8	0.45	-	-

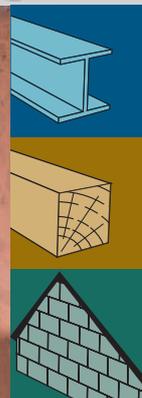
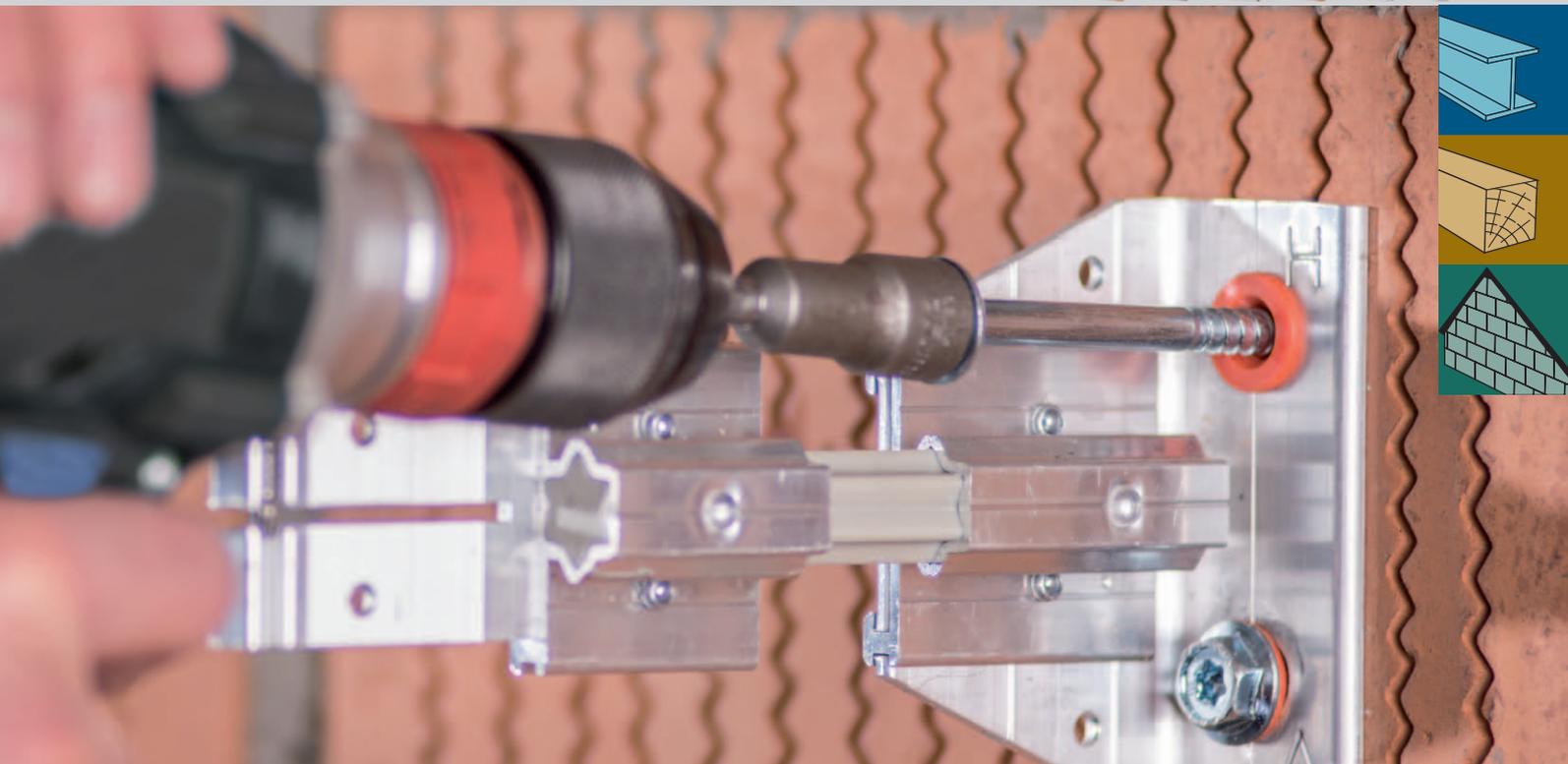
Reached with max. diameter wood screw / Safety factor of 5 is included / 1 kN ≈ 100 kg / 1) Chipboard screw

### Installation



### Available

Diameter	also available in craftsman fasteners boxes	
Ø 6-14 mm	30 x 20 x 12.5 cm	40 x 30 x 23.5 cm

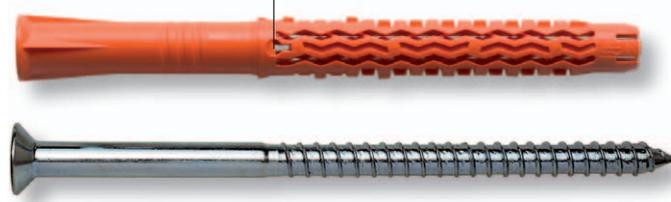


## Features

- ETAG 020 - Approved for multiple use in concrete and masonry for non-structural applications
- Fire resistance test certification F90 for fastening of façade systems
- Universal use
- 3-times rotation resistance; stops the plug rotating in the drill hole (especially in softer materials)
- Setting depth of 70mm results in higher loadings
- Knot forming leads to high resistance in cavities
- Longer plugs with reinforced shank
- Made from high-quality polyamide PA6
- Through fixing
- Indoor (zinc plated) and outdoor (stainless steel) applications

### Knock-in protection

prevents premature expansion while installing



## Applications

façade and roof substructures, ventilated façades, fixing for insulation, substructures, profiles



### Quattro® Technology

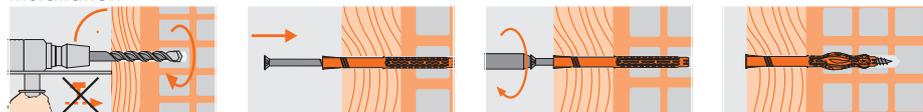
Increased load capacity due to 4 expansion zones

## Technical Data

	Non-cracked concrete C20/25 tension load (kN)	Cracked concrete C20/25 tension load (kN)	Brick tension load (kN)	Sandstone tension load (kN)	Perforated Brick tension load (kN)	Perforated Brick tension load (kN)	Lightweight Concrete tension load (kN)	Aerated Concrete tension load (kN)	Bending moment (Nm) galv. steel	Bending moment (Nm) stainless steel
MQL 8	<sup>1) 6)</sup> 1.8	-	-	-	<sup>2) 4)</sup> 0.9	-	<sup>2) 4)</sup> 0.3	<sup>2) 4)</sup> 0.4	-	-
MQL 10	<sup>1) 6)</sup> 2.0	<sup>5)</sup> 1.0	<sup>5)</sup> 0.9	<sup>5)</sup> 0.7	<sup>2) 4)</sup> 1.2	<sup>5)</sup> 0.6	<sup>2) 4)</sup> 0.4	<sup>2) 4)</sup> 0.5	<sup>5)</sup> 9.2	<sup>5)</sup> 8.6

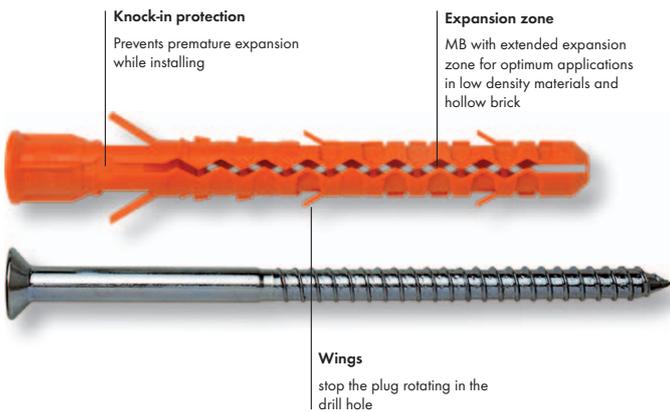
Values only valid when using Mungo safety screws / 1 kN = 100 kg / 1) Safety factor of 3 is included / 2) Safety factor of 3.5 is included / 5) ETA / 6) Mungo lab tested

## Installation



## Available

Diameter	Usable length	Head / Material / Diameter					
		Zinc plated		Stainless steel A4		Zinc plated	
Ø 8 - 10 mm	10 - 230 mm	Ø 8 - 10 mm	Ø 8 - 10 mm	Ø 10 mm	-	Ø 10 mm	Ø 10 mm



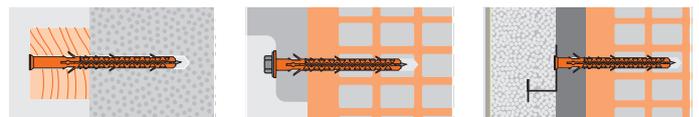
## Features

- MB Nylon Frame Plug with German national approval (DIBT)
- Fire resistance test certification F90 for fastening of façade systems
- Approved and suitable for applications in perforated brick, masonry and aerated concrete
- Aerated Concrete: Drill-Ø 9mm, setting depth 90mm
- Plug made from high-quality polyamide PA6
- Through fixing
- Indoor (zinc plated) and outdoor (stainless steel) applications



## Applications

façade fixings, profiles, substructures, frames

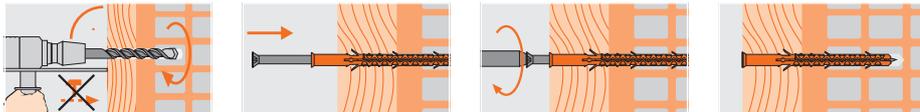


## Technical Data

	Perforated Brick app. load (kN)	Lightweight Concrete app. load (kN)	Aerated Concrete app. load (kN)	Bending moment (Nm) galv. steel Fz = 0 kN	Bending moment (Nm) galv. steel Fz = 0.6 kN	Bending moment (Nm) stainl. steel Fz = 0 kN	Bending moment (Nm) stainl. steel Fz = 0.6 kN
MB 8	0.4	0.15	-	3.4	3.1	3.2	2.9
MB 10	0.8	0.25	0.3	11.1	10.6	10.4	9.9

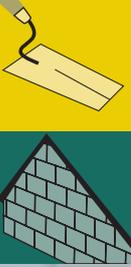
Important: without hammer drilling in perforated brick and lightweight concrete / Values only valid when using Mungo safety screws / Safety factor of 5 is included / 1 kN ≈ 100 kg / Fz = existing central traction / Approved loads: Tension, shear and combined loads according to approval Z-21.2-177

## Installation



## Available

Diameter	Usable length	Head / Material / Diameter							
		Zinc plated		Stainl. steel A4		Zinc plated		Stainl. steel A4	
Ø 8-10 mm	10 - 230 mm	Ø 8 - 10 mm	Ø 8 - 10 mm	Ø 10 mm	Ø 10 mm	Ø 8 - 10 mm	-	Ø 10 mm	Ø 10 mm



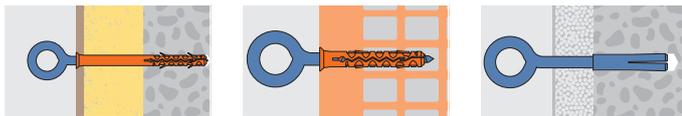
## Features

- Economical solution for light scaffolds
- Corresponding DIN 4420
- Tension force of eyelet: 26 kN (DIN EN 10002-1: 1991-04)
- Plug made from high-quality polyamide PA6
- Temporary outdoor applications



## Applications

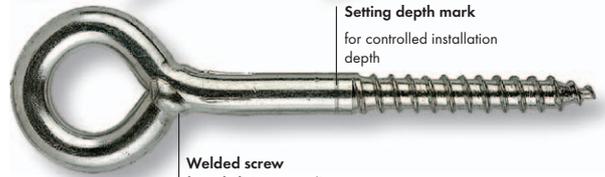
façade scaffolds, climbing scaffolds, tensioning ropes



**Easy installation**  
due to knock-in protection and plug collar



**Setting depth mark**  
for controlled installation depth



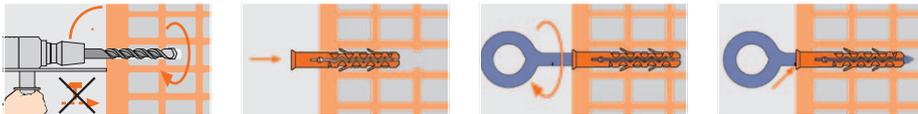
**Welded screw**  
for safe fixing according to DIN 4420

## Technical Data

	Concrete C20/25 tension load (kN)	Brick tension load (kN)	Perforated Brick tension load (kN)
MGD	5	4.5	1.6
MGVm (with ESA)	5.3	-	-

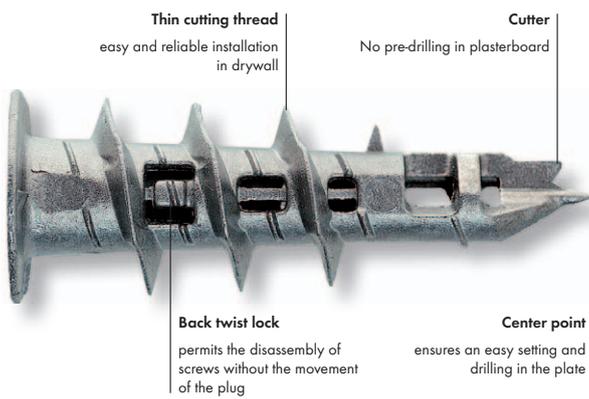
Important: without hammer drilling in perforated brick and lightweight concrete / Safety factor of 3 is included / 1 kN ≈ 100 kg

## Installation



## Available

Shank diameter	Eyelet diameter	Usable length	Zinc plated	Material	Accessories
Ø 12 mm	Ø 25 mm	15 - 475 mm	●	Stainless steel A4	-

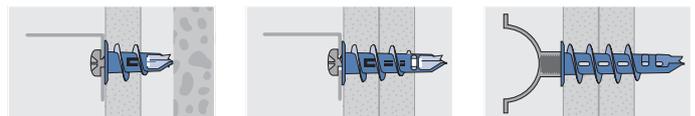


### Features

- MJP39 - For single, double drywall, plasterboard and gypsum fibre board
- MJP32 - For single, double drywall, plasterboard, gypsum fibre board and reduced cavities
- MJP25 - For single plasterboard and reduced cavities where the point breaks off
- MJPM for the use with pipe clips
- Pre installation
- Indoor applications

### Applications

lamps, pictures, rails, skirtings, small wall-mounted shelves

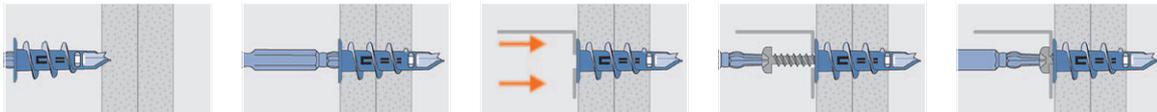


### Technical Data

	Plasterboard d = 12.5mm tension load (N)	Lightweight Concrete tension load (N)	Gypsum 6mm pre-drilling tension load (N)	Gypsum fibre board tension load (N)	Chipboard 6mm pre-drilling tension load (N)
MJP	100	100	1) 220	150	450

Safety factor of 3 is included / 10 N ≈ 1 kg / 1) Only MJP39

### Installation



### Available

Plug	Length	available with screw	Accessories
	39 mm	●	
	32 mm	●	
	25 mm	-	
	39 mm	-	

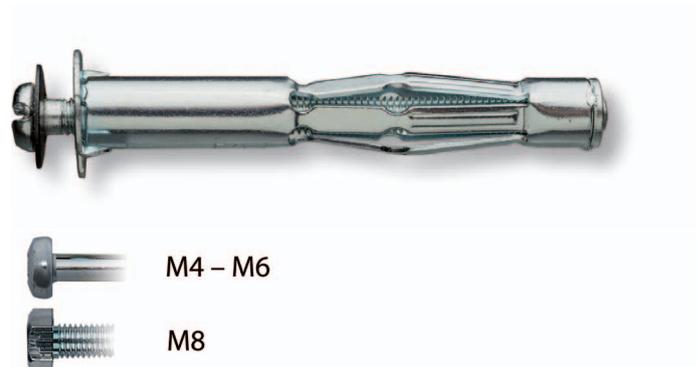


## Features

- Controlled, quick and simple installation with the setting tool
- Anchor fully assembled
- Combined screw setting recess to accept all types of screw bits
- Increased load-bearing capability and security
- Through fixing
- Indoor applications

## Applications

lamps, pictures, small-mounted shelves, lightweight mirror cabinets, rails

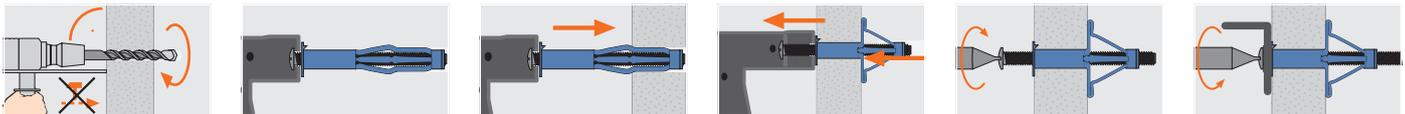


## Technical Data

	Plasterboard d = 12.5mm tension load (N)	Chipboard d = 13mm tension load (N)	Cement fiber board d = 12mm tension load (N)	Vertically perforated brick (Hz 12) tension load (N)
M4	150	200	350	-
M5	180	250	400	-
M6	200	280	420	700
M8	200	300	450	700

Safety factor of 3 is included / 10 N ≈ 1 kg

## Installation



## Available

Diameter	Usable length	Accessories		
		Setting tool M4-M6, with ratchet action	Setting tool M4-M6 strong, for use in confined areas	Setting tool M4-M8, in-line version, especially for overhead application
Ø 4 - 8 mm	12 - 30 mm			



**Features**

- Monobloc tip with 3 cutting edges for drilling in all types of concrete
- No jamming with reinforcement hits
- Drill holes suitable for plugs and anchors throughout the life of the drill bit
- 3 contact points provide consistently high drilling performance
- The self-centering tip gives higher drill precision
- The 135° angle carbide tip achieves clean and perfect holes without cracking the concrete
- The square flute accelerates dust extraction and improves the drill bit lifetime
- High durability even in the hardest materials

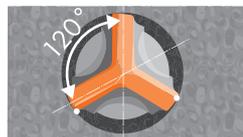
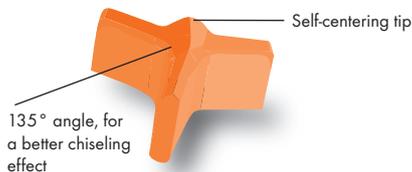


The jet-trac triplo Drill Bit with 3 cutting edges for different applications. Suitable for concrete and stone. In reinforced concrete the jet-trac triplo makes the difference.

**3 cutting edges technology**

Perfect holes

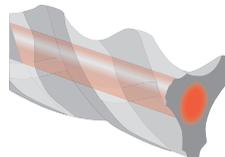
Monobloc carbide tip



The 120° angle guarantees perfect concentric holes. The jet-trac triplo enables straight drilling.

**Thermal treatment**

100% Hammering power



The heat treatment under controlled atmosphere and the optimized ground geometry enables to generate a profile of hardness which restores the full hammer effect and power of the machine.

**Available**

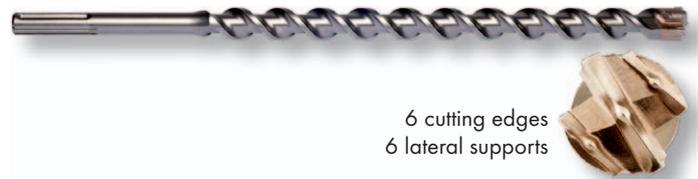
Diameter Ø 5 - 20 mm	also available in Quadro-Box
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**Features**

- 6 asymmetric cutting edges reduce the risk of blockage
- No jamming with reinforcement hits
- Drill holes suitable for plugs and anchors throughout the life of the drill bit
- The self-centering tip gives higher drill precision
- High flexural resistance due to the progressively increasing core diameter of the drill bit
- Optimum extraction of drill dust promotes high drilling performance
- Long lifespan



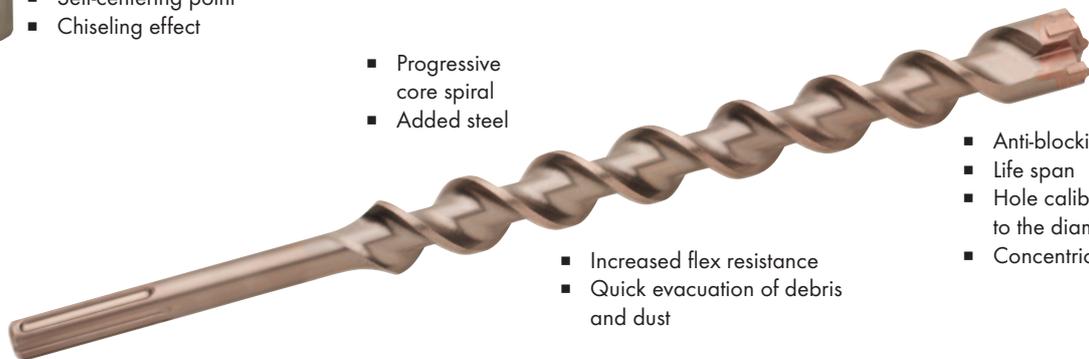
6 cutting edges  
6 lateral supports



The professional SDS-Max Drill Bit with 6 cutting edges, designed for large diameter drilling in concrete and stone.



- Tungsten carbide
- Self-centering point
- Chiseling effect



- Progressive core spiral
- Added steel

- Increased flex resistance
- Quick evacuation of debris and dust

- Anti-blocking
- Life span
- Hole calibration to the diameter
- Concentric hole

**Available**

	Diameter
	Ø 12 - 38 mm <sup>1)</sup>

1) Ø 12-14 mm = 2-cutter

Swiss Quality



Professional sales promotion



Comprehensive training courses for users



Direct access to information about Mungo and its products



IQNet / SQS



Mungo Design software

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teamwork ■ integrity ■ passion