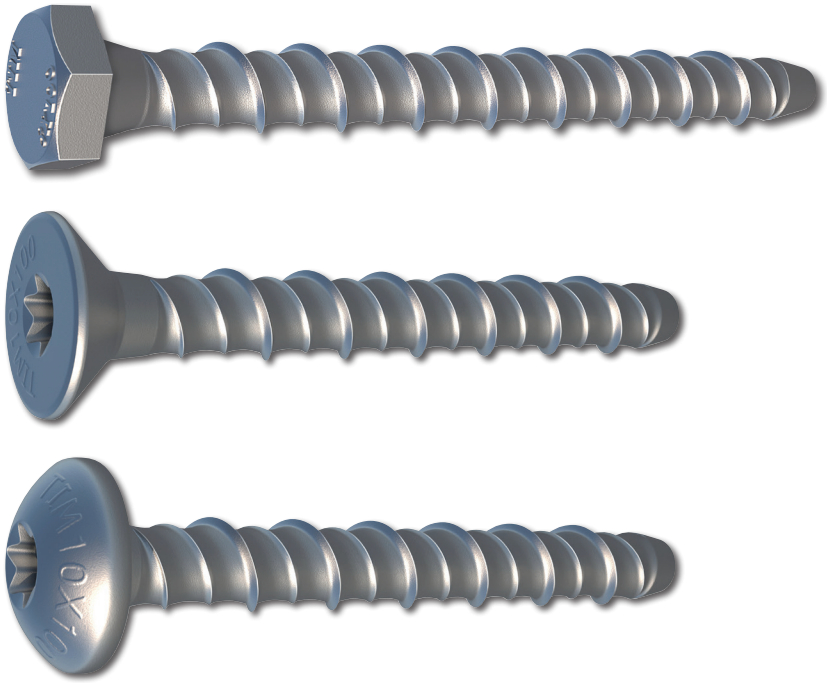
TECHNICAL INFORMATION FOR THE

TIMco Multi-Fix Bolt



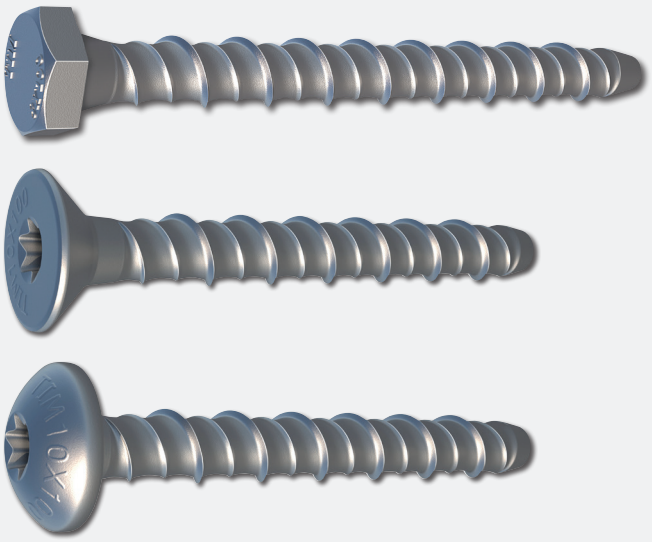
TECHNICAL DATA SHEET

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Multi-Fix BOLTS

HEX HEAD, COUNTERSUNK & PAN HEAD

EXTERIOR



HEX

TIMDRIVE

1 2 **3** 4 5
URBAN & INDUSTRIAL AREAS WITH A LOW SALT ATMOSPHERE

EXTERIOR

SALT SPRAY TEST
400 hours

KESTERNICH TEST
3 cycles



CONCRETE BRICK BLOCK

- This through fixing is the new solution for heavy duty anchoring into most substrate materials.
- Non-Expanding nature means fixing can be installed closer to the edge of substrates without causing damage.
- Designed to replace traditional anchors such as throughbolts, shield, sleeve and drop-in anchors.
- Removable & adjustable.
- One piece fixing.
- No special tools required.

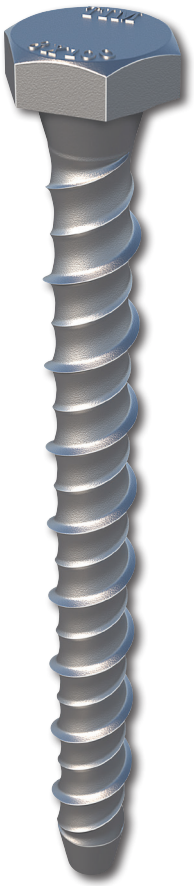








FEATURES



- TIMco micro plating (Nano) technology gives a higher resistance to corrosion.
- High low parallel threads for ease of insertion and high pull out values.
- Unique concave thread configuration for ease of insertion and high pull out values

HEX HEAD

- 6mm Bolts include a fixed flange washer for improved clamping.

COUNTERSUNK

- Gives a discreet finish into pre-counterunk holes.

PAN HEAD

- For improved clamping.

PRODUCT RANGE - HEX HEAD

Product Code	Size x Length (mm)	Drill Hole Ø (mm)	A/F (mm)	Max. Fixture Thickness (mm)	Fixture Cleanance Hole Ø (mm)	Box Qty	Washer Part Code
MF650	6 x 50 *	6	10	20	8	100	WC8Z
MF675	6 x 75 *	6	10	45	8	100	WC8Z
MF6100	6 x 100 *	6	10	55	8	100	WC8Z
MF6130	6 x 130 *	6	10	85	8	100	WC8Z
MF6150	6 x 150 *	6	10	105	8	75	WC8Z
MF860	8 x 60	8	15	20	10	100	WA10Z / WC10Z
MF875	8 x 75	8	15	35	10	100	WA10Z / WC10Z
MF8100	8 x 100	8	15	60	10	50	WA10Z / WC10Z
MF8130	8 x 130	8	15	90	10	50	WA10Z / WC10Z
MF8150	8 x 150	8	15	110	10	50	WA10Z / WC10Z
MF1060	10 x 60	10	17	10	12	50	WA12Z / WC12Z
MF1075	10 x 75	10	17	25	12	50	WA12Z / WC12Z
MF10100	10 x 100	10	17	50	12	50	WA12Z / WC12Z
MF10130	10 x 130	10	17	80	12	50	WA12Z / WC12Z
MF10150	10 x 150	10	17	100	12	25	WA12Z / WC12Z
MF1275	12 x 75	12	19	15	14	50	WA14Z
MF12100	12 x 100	12	19	40	14	25	WA14Z
MF12130	12 x 130	12	19	70	14	25	WA14Z
MF12150	12 x 150	12	19	90	14	25	WA14Z
MF12200	12 x 200	12	19	140	14	25	WA14Z
MF16100	16 x 100	16	27	20	18	10	WA20Z / WC20Z
MF16150	16 x 150	16	27	70	18	10	WZ20Z / WC20Z

* 6mm Bolts include a fixed flange washer for improved clamping.

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PRODUCT RANGE - COUNTERSUNK

Product Code	Size x Length (mm)	Drill Hole Ø (mm)	Driver Bit Size	Max. Fixture Thickness (mm)	Fixture Cleanance Hole Ø (mm)	Box Qty
MF860C	8 x 60	8	T40	20	10	100
MF875C	8 x 75	8	T40	35	10	100
MF8100C	8 x 100	8	T40	60	10	50
MF1060C	10 x 60	10	T50	10	12	50
MF1075C	10 x 75	10	T50	25	12	50
MF10100C	10 x 100	10	T50	50	12	50

PRODUCT RANGE - PAN HEAD

Product Code	Size x Length (mm)	Drill Hole Ø (mm)	Driver Bit Size	Max. Fixture Thickness (mm)	Fixture Cleanance Hole Ø (mm)	Box Qty
MF860P	8 x 60	8	T40	20	10	100
MF875P	8 x 75	8	T40	35	10	100
MF8100P	8 x 100	8	T40	60	10	50
MF1060P	10 x 60	10	T50	10	12	50
MF1075P	10 x 75	10	T50	25	12	50
MF10100P	10 x 100	10	T50	50	12	50

TECHNICAL DATA

136-1350KG

Substrate	Concrete ≥25N/mm²									Fletton Brick 30N/mm²			Cheshire Brick 45N/mm²			Class B Eng. Brick 75N/mm²		
Size (mm)	6		8	10	12	16				6	8	10	6	8	10	6	8	10
Length (mm) L	50-75	100-150	All	All	All	All				-	-	-	-	-	-	-	-	-
Drill Hole Ø (mm) d_0	6	6	8	10	12	16				6	8	10	6	8	10	6	8	10
Min Embedment Depth (mm)	30	45	40	50	60	80				30	40	50	30	40	50	30	40	50
Min Over-drill for dust (mm)	10	10	15	20	25	35				10	15	20	10	15	20	10	15	20
Min Drill Hole Depth (mm) h_0	40	55	55	70	85	115				40	55	70	40	55	70	40	55	70
Min Centre Spacing (mm)** s_{min}	90	140	120	150	180	240				-	-	-	-	-	-	-	-	-
Min Edge Distance (mm)** c_{min}	45	70	60	75	90	120				-	-	-	-	-	-	-	-	-
Min Structure Thickness (mm) h_{min}	60	100	90	110	125	175				-	-	-	-	-	-	-	-	-
Performance at Standard and Deeper embedment depths																		
Effective Embedment depth (mm) h_{ef}	30	45	40	60	50	75	60	85	80	30	40	50	30	40	50	30	40	50
Rec. Tensile Load (kN) N_{rec}	2.44	6.23	3.93	8.36	5.49	12.21	8.97	13.00	13.5	2.28	2.68	3.18	1.36	2.19	3.26	3.49	4.33	-
Rec. Shear Load (kN) V_{rec}	3.00	-	7.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

** Centre spacings and edge distances are based on minimum embedment only.

INSTALLATION GUIDELINES



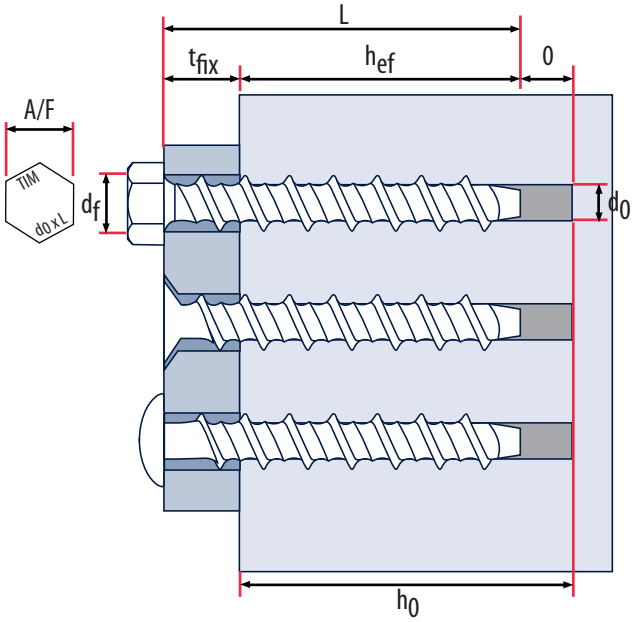
Drill hole to substrate. Always drill to the stated hole depth.



Clean the hole by blowing out the Debris.



Screw the bolt into the hole with slight pressure to the bolt.



INSTALLATION DATA

Anchor Size (mm)	6		8	10	12	16
Length (mm) L	50-75	100-150	60-150	60-150	75-200	100-150
A/F Socket Size (mm) *Hex Head*	10	10	15	17	19	27
Driver Bit Size Csk. & Pan						
Hole Ø in substrate (mm) d_0	6	6	8	10	12	16
Min. Embedment Depth (mm) h_{ef}	30	45	40	50	60	80
Fixture Clearance Hole Ø (mm) d_f	8	8	10	12	14	19
Max. Fixture Thickness (mm) t_{fix}	*Length - Embedment Depth (L-E)*					
Over Drill Depth (mm) 0	10	10	15	20	25	32
Drill Hole Depth h_0	*Length - Actual Fixture Thickness + Over Drill Depth*					

A/F	Across Flats
d_f	Head Diameter
d_0	Drill Hole
t_{fix}	Maximum Fixture thickness

L	Length
0	Min. Over Drill Depth
h_{ef}	Minimum Embedment Depth
h_0	Minimum Drill Hole Depth