



certifix
YOUR FIXING SPECIALIST

CERTIFIX CFTB

Through Bolt For Concrete

PRODUCT DESCRIPTION

Through bolt galvanized or hot dip galvanized and in stainless steel A4 with European Technical Approval for cracked and non-cracked concrete.

PRODUCT FEATURES

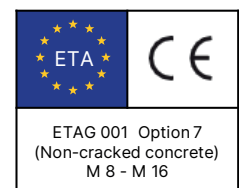
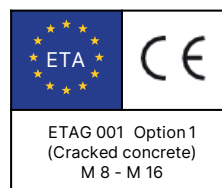
- Small drilling expenditure
- Quick assembly
- Perfect for through fixings
- Galvanized stainless steel
- ETA Approved

AREAS OF APPLICATION

The through bolt can be used for medium and heavy through fixings in cracked or non-cracked concrete like brackets, cable trays, channels, suspended ceilings, ducts, metal constructions, supports, handrails or shelf feet.

PRODUCT DESCRIPTION





The through bolt is hammered in the drill hole. While tightening the nut, respecting the given torque settings, the cone of the through bolt pulls itself into the tie-clip, spreads it and presses it against the substrate material.





OPERATING INSTRUCTIONS

Through bolt for cracked and non-cracked concrete.

-  Drill the hole (see technical data below).
-  Set CFTB through the fixture and hit it into the drill hole.
-  Clean the drill hole.
-  Tighten the nut with a torque moment wrench (see technical data below).

TECHNICAL DATA

CFTB (drilling diameter)		M8	M10	M12	M16	M20*
Depth of the drill hole	[mm]	65	70	90	110	130
Torque moment for cracked concrete	[Nm]	20	40	65	130	200
Torque moment for non-cracked concrete	[Nm]	15	30	50	100	160
Minimum thickness of concrete	[mm]	100	100	130	160	200
Minimum spacing	[mm]	50	55	100	90	105
Minimum edge distance	[mm]	60	100	150	110	125



CHARACTERISTIC VALUES $N_{Rk,p}$

Recommended load F_{Rd} and partial safety factor in concrete C20/25

CFTB (drilling diameter)		M8	M10	M12	M16	M20*
Cracked concrete $N_{Rk,p}$	[kN]	3	6	8,5	12	16
Cracked concrete F_{Rd}	[kN]	1,7	3,3	4,2	6,7	8,9
Non-cracked concrete $N_{Rk,p}$	[kN]	9	12	16	20	30
Non-cracked concrete F_{Rd}	[kN]	5	6,7	8,9	11,1	16,7
Partial safety factor	[-]	1,8	1,8	1,8	1,8	1,8

*Not part of the approval

THROUGH BOLT CFTB – STEEL, GALVANIZED

Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB ZP 6x40*	5	65	6x35	7	M6x18	100/800
CFTB ZP 6-15/65*	15	20	6x50	7	M6x28	100/800
CFTB ZP 6-50/100*	50	15	6x50	7	M6x28	100/500
CFTB ZP 8-5/50*	5	100	8x45	15	M8x22	100/500
CFTB ZP 8-10/75	10	50	8x65	15	M8x40	50/400
CFTB ZP 8-15/80	15	60	8x65	15	M8x40	50/400





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB ZP 8-20/85	20	85	8x65	15	M8x40	50/400
CFTB ZP 8-30/95	30	95	8x65	15	M8x55	50/400
CFTB ZP 8-45/110	45	110	8x65	15	M8x60	50/250
CFTB ZP 8-85/150	85	150	8x65	15	M8x75	50/250
CFTB ZP 10-10/60*	10	60	10x60	15	M10x25	50/250
CFTB ZP 10-10/80	10	80	10x70	15	M10x40	50/250
CFTB ZP 10-15/85	15	80	10x70	30	M10x40	50/250
CFTB ZP 10-20/90	20	90	10x70	30	M10x50	25/200
CFTB ZP 10-30/100	30	100	10x70	30	M10x50	25/200
CFTB ZP 10-45/115	45	115	10x70	30	M10x60	25/200
CFTB ZP 10-70/140	70	140	10x70	30	M10x75	25/125
CFTB ZP 10-100/170	100	170	10x70	30	M10x100	25/125
CFTB ZP 10-140/210	140	210	10x70	30	M10x100	25/125
CFTB ZP 12-15/110	15	110	12x70	50	M12x35	25/200
CFTB ZP 12-20/115	20	115	12x90	50	M12x50	25/125
CFTB ZP 12-30/125	30	125	12x90	50	M12x50	25/125





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB ZP 12-50/145	50	145	12x90	50	M12x80	25/125
CFTB ZP 12-65/160	65	160	12x90	50	M12x80	25/75
CFTB ZP 12-85/180	85	180	12x90	50	M12x80	25/75
CFTB ZP 12-105/200	105	200	12x90	50	M12x100	20/80
CFTB ZP 12-125/220	125	220	12x90	50	M12x100	15/60
CFTB ZP 12-145/240	145	240	12x90	50	M12x120	15/60
CFTB ZP 12-160/255	160	255	12x90	50	M12x120	15/60
CFTB ZP 12-190/285	190	285	12x90	50	M12x120	10/60
CFTB ZP 12-230/325	230	325	12x90	50	M12x120	10/40
CFTB ZP 12-260/355	260	355	12x90	50	M12x120	10/40
CFTB ZP 16-15/115	15	115	16x110	100	M16x60	20/60
CFTB ZP 16-30/145	30	145	16x110	100	M16x60	10/50
CFTB ZP 16-45/160	45	160	16x110	100	M16x80	10/50
CFTB ZP 16-80/195	80	195	16x110	100	M16x80	10/50
CFTB ZP 16-100/215	100	215	16x110	100	M16x80	10/50
CFTB ZP 16-130/245	130	245	16x110	100	M16x120	5/40
CFTB ZP 16-165/280	165	280	16x110	100	M16x120	5/30





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB ZP 16-200/315	200	315	16x110	100	M16x120	5/30
CFTB ZP 20-5/145	5	145	20x130	200	M20x70	5/40
CFTB ZP 20-35/180*	35	180	20x130	200	M20x70	5/25
CFTB ZP 20-60/205*	60	205	20x130	200	M20x70	5/25
CFTB ZP 20-95/240*	95	240	20x130	200	M20x70	5/20

*Not part of the approval

Special lengths available upon request

THROUGH BOLT CFTB W-ZP – STEEL, GALVANIZED WITH BIG WASHER (DIN440)

Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB W-ZP 12/85/180	85	180	12x90	50	M12x100	25/75
CFTB W-ZP 12/105/200	105	200	12x90	50	M12x100	15/60
CFTB W-ZP 12/125/220	125	220	12x90	50	M12x120	15/60
CFTB W-ZP 12/145/240	145	240	12x90	50	M12x120	15/60
CFTB W-ZP 12/160/255	160	255	12x90	50	M12x120	15/60
CFTB W-ZP 12/190/285	190	285	12x90	50	M12x120	10/60
CFTB W-ZP 12/230/325	230	325	12x90	50	M12x120	10/40





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB W-ZP 12/260/355	260	355	12x90	50	M12x120	10/40
CFTB W-ZP 16/80/195	80	195	16x110	100	M16x80	10/50
CFTB W-ZP 16/100/215	100	215	16x110	100	M16x120	10/50
CFTB W-ZP 16/130/245	130	245	16x110	100	M16x120	5/30
CFTB W-ZP 16/165/280	165	280	16x110	100	M16x120	5/30
CFTB W-ZP 16/200/315	200	315	16x110	100	M16x120	5/30

Special lengths available upon request

THROUGH BOLT CFTB L-A4 – STAINLESS STEEL A4 (DIN9021)						
Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB L-A4 8-145/210-U	145	210	8x65	15	M8x85	150
CFTB L-A4 8-175/240-U	175	240	8x65	15	M8x85	150
CFTB L-A4 8-205/270-U	205	270	8x65	15	M8x85	150
CFTB L-A4 8-235/300-U	235	300	8x65	15	M8x85	150
CFTB L-A4 8-285/350-U	285	350	8x65	15	M8x85	150





THROUGH BOLT INNER THREAD CFTB I (A4/ZP)

Product	Length mm	Drill Depth mm	Thread mm	QTY
CFTB I – M6	45	8x60	M6x15	100/800
CFTB I – M8	50	10x65	M6x15	100/800
CFTB I – M10	60	12x75	M10x20	50/400
CFTB I – M12	75	16x95	M12x25	25/125



THROUGH BOLT CFTB A4 – STAINLESS STEEL A4

Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB A4 6x40*	5	40	6x35	7	M6x18	100/800
CFTB A4 6-15/65*	15	65	6x50	7	M6x28	100/800
CFTB A4 8-5/50	5	50	8x45	15	M8x22	100/500
CFTB A4 8-5/65	5	65	8x60	15	M8x35	100/500
CFTB A4 8-10/75	10	75	8x65	15	M8x40	50/400
CFTB A4 8-15/80	15	80	8x65	15	M8x40	50/400
CFTB A4 8-20/85	20	85	8x65	15	M8x40	50/400
CFTB A4 8-30/95	30	95	8x65	15	M8x55	50/400





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB A4 8-45/110	45	110	8x65	15	M8x60	50/250
CFTB A4 10/10-60*	10	60	10x60	30	M10x25	50/250
CFTB A4 10-10/80	10	80	10x70	30	M10x40	50/250
CFTB A4 10-15/85	15	85	10x70	30	M10x40	50/250
CFTB A4 10-20/90	20	90	10x70	30	M10x50	25/200
CFTB A4 10-30/100	30	100	10x70	30	M10x50	25/200
CFTB A4 10-45/115	45	115	10x70	30	M10x60	25/200
CFTB A4 10-70/140	70	140	10x70	30	M10x75	25/125
CFTB A4 10-100/170	100	170	10x70	30	M10x100	25/125
CFTB A4 10-140/210	140	210	10x70	30	M10x100	25/125
CFTB A4 12-5/75*	5	75	10x70	30	M12x35	25/200
CFTB A4 12-10/95	10	95	10x70	30	M12x50	25/125
CFTB A4 12-15/110	15	110	12x70	50	M12x50	25/125
CFTB A4 12-20/115	20	115	12x90	50	M12x65	25/125
CFTB A4 12-30/125	30	125	12x90	50	M12x80	25/125
CFTB A4 12-50/145	50	145	12x90	50	M12x80	25/125





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB A4 12-65/160	65	160	12x90	50	M12x80	25/75
CFTB A4 12-85/180	85	180	12x90	50	M12x100	25/75
CFTB A4 12-105/200	105	200	12x90	50	M12x100	20/80
CFTB A4 12-125/220	125	220	12x90	50	M12x120	15/60
CFTB A4 12-145/240	145	240	12x90	50	M12x120	15/60
CFTB A4 16-15/115	15	115	16x110	100	M16x60	20/60
CFTB A4 16-30/145	30	145	16x110	100	M16x80	10/50
CFTB A4 16-45/160	45	160	16x110	100	M16x80	10/50
CFTB A4 16-80/195	80	195	16x110	100	M16x80	10/50
CFTB A4 16-100/215	100	215	16x110	100	M16x120	10/50
CFTB A4 16-130/245	130	245	16x110	100	M16x120	5/40
CFTB A4 20-5/145*	5	145	20x130	30	M20x80	5/40
CFTB A4 20-35/180*	35	180	20x130	50	M20x70	5/25
CFTB A4 20-60/205*	60	205	20x130	50	M20x70	5/25
CFTB A4 20-95/240*	95	240	20x130	50	M20x70	5/20

*Not part of the approval





Special lengths available upon request





OPERATING INSTRUCTIONS

Through bolt for non-cracked concrete.

-  Drill the hole (see technical data below).
-  Set CFTB through the fixture and hit it into the drill hole.
-  Clean the drill hole.
-  Tighten the nut with a torque moment wrench (see technical data below).

TECHNICAL DATA

CFTB (drilling diameter)		M8	M10	M12	M16	M20*
Depth of the drill hole	[mm]	65	70	90	110	130
Torque moment for non-cracked concrete	[Nm]	12	20	30	90	150
Minimum thickness of concrete	[mm]	100	100	130	160	200
Minimum spacing	[mm]	60	70	120	120	120
Minimum edge distance	[mm]	75	110	180	160	180



CHARACTERISTIC VALUES $N_{Rk,P}$

Recommended load F_{Rd} and partial safety factors in concrete C20/25

CFTB (drilling diameter)		M8	M10	M12	M16	M20*
Characteristic values in C20/25 $N_{Rk,P}$	[kN]	7,5	12	16	20	30
Recommended load for C20/25 F_{Rd}	[kN]	4,2	6,7	8,9	11,1	16,6
Partial safety factor for C20/25		1,8	1,8	1,8	1,8	1,8
Concrete class Increase factor		C30/37 x1,22		C40/50 x1,41		C50/60 x1,55

*Not part of the approval

THROUGH BOLT CFTB HDG – HOT DIP GALVANIZED

Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB HDG 6x40*	5	40	6x35	7	M6x18	100/800
CFTB HDG 6-15/65*	15	65	6x50	7	M6x28	100/800
CFTB HDG 6-50/100*	50	100	6x50	7	M6x28	100/500
CFTB HDG 8-5/50	50	50	8x45	15	M8x22	100/500
CFTB HDG 8-10/75	10	75	8x65	15	M8x40	50/400
CFTB HDG 8-15/80	15	80	8x65	15	M8x40	50/400





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB HDG 8-20/85	20	85	8x65	15	M8x40	50/400
CFTB HDG 8-30/95	30	95	8x65	15	M8x55	50/400
CFTB HDG 8-45/110	45	110	8x65	15	M8x60	50/250
CFTB HDG 8-85/150	85	150	8x65	15	M8x75	50/250
CFTB HDG 10-10/60*	10	60	10x60	30	M10x25	50/250
CFTB HDG 10-10/80	10	80	10x70	30	M10x40	50/250
CFTB HDG 10-15/85	15	85	10x70	30	M10x40	50/250
CFTB HDG 10-20/90	20	90	10x70	30	M10x50	25/200
CFTB HDG 10-30/100	30	100	10x70	30	M10x50	25/200
CFTB HDG 10-45/115	45	115	10x70	30	M10x60	25/200
CFTB HDG 10-70/140	70	140	10x70	30	M10x75	25/125
CFTB HDG 10-100/170	100	170	10x70	30	M10x100	25/125
CFTB HDG 10-140/210	140	210	10x70	30	M10x100	25/125
CFTB HDG 12-5/75*	5	75	12x70	50	M12x35	25/200
CFTB HDG 12-10/95	10	95	12x90	50	M12x50	25/125
CFTB HDG 12-15/110	15	110	12x90	50	M12x50	25/125





Product	Clamping range mm	Length mm	Drill Depth mm	Torque moment Nm	Thread mm	QTY
CFTB HDG 12-20/115	20	115	12x90	50	M12x65	25/125
CFTB HDG 12-30/125	30	125	12x90	50	M12x80	25/125
CFTB HDG 12-50/145	50	145	12x90	50	M12x80	25/125
CFTB HDG 12-65/160	65	160	12x90	50	M12x80	25/75
CFTB HDG 12-85/180	85	180	12x90	50	M12x100	25/75
CFTB HDG 12-105/200	105	200	12x90	50	M12x100	20/80
CFTB HDG 16-15/115	15	115	16x110	50	M16x60	20/60
CFTB HDG 16-30/145	30	145	16x110	100	M16x80	10/50
CFTB HDG 16-45/160	45	160	16x110	100	M16x80	10/50
CFTB HDG 16-80/195	80	195	16x110	100	M16x80	10/50
CFTB HDG 16-130/245	130	245	16x110	100	M16x120	10/50
CFTB HDG 20-5/145*	5	145	20x130	200	M20x70	5/40
CFTB HDG 20-35/180*	35	180	20x130	200	M20x70	5/25
CFTB HDG 20-60/205*	60	205	20x130	200	M20x70	5/25
CFTB HDG 20-95/240*	95	240	20x130	200	M20x70	5/20



*Not part of the approval

Special lengths available upon request

