

T-FIXX® ANCHORS

General / T-FIXX GV

General Information

The DEMU Fixing anchor T-FIXX® with European Technical Assessment is an innovative combination of socket anchor and bolt anchor.

T-FIXX® is calculable for each situation.

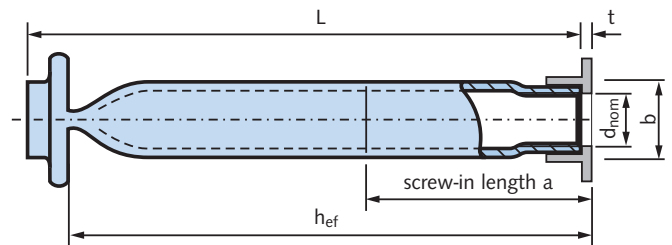
22 standard versions/sizes are available in zinc galvanized (GV) or stainless steel (A4). The zinc galvanized version of the T-FIXX® is yellow galvanized (chromium VI free) and therefore visually distinguishable from the stainless steel types.



T-FIXX GV



T-FIXX GV



Anchor description

The T-FIXX GV is manufactured from a steel precision tube (strength class E235).

The surface is zinc galvanized (GV), the internal thread is metric ISO.

For identification a grey plastic clip is attached ($t=2$ mm).



Please download our calculation software to calculate the load capacity of this anchor according to CEN/TS 1992-4-1/2.

www.halfen.com → downloads → software.

For information about our software see page 40.

T-FIXX GV incl. identification clip (grey)

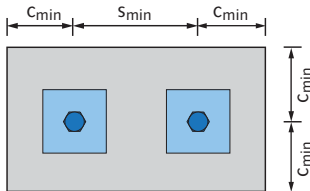
Order no.	Dimensions				Design loads for tension ^①		Design loads for shear ^①	
	$d_{nom} \times L$	h_{ef}	a	b	$N_{Rd,c}$ [kN]	$N_{Rd,c}$ [kN]	$V_{Rd,c}$ [kN]	$V_{Rd,c}$ [kN]
	[mm]	[mm]	[mm]	[mm]	C20/25	C45/55	C20/25	C45/55
0020.270-00001	M10 x 50	43.7	32	13.5	8.2	10.1	6.1	6.1
0020.270-00002	M10 x 75	68.7	32	13.5	10.1	10.1	6.1	6.1
0020.270-00003	M12 x 50	42.5	30	17	7.9	11.6	7.9	10.1
0020.270-00004	M12 x 70	62.5	38	17	14.0	16.8	10.1	10.1
0020.270-00005	M12 x 95	87.5	38	17	16.8	16.8	10.1	10.1
0020.270-00006	M16 x 60	51.3	32	21.3	10.4	15.4	10.4	15.4
0020.270-00007	M16 x 100	91.3	50	21.3	24.7	27.3	16.3	16.3
0020.270-00008	M16 x 125	116.8	50	21.3	27.3	27.3	16.3	16.3
0020.270-00009	M20 x 70	61.2	44	26.9	13.6	20.1	13.6	20.1
0020.270-00010	M20 x 100	91.2	62	26.9	24.7	35.3	21.2	21.2
0020.270-00011	M20 x 145	136.2	62	26.9	35.3	35.3	21.2	21.2

① The design load is the calculation value according to CEN/TS 1992-4-1/2 for tensile or shear force in plain concrete without load-reducing influences. Values only apply for cracked concrete; no dense reinforcement (risk of shell spalling). Design loads are valid for permanent fixings and are not permitted for lifting!

T-FIXX® ANCHORS

T-FIXX A4

Minimum allowed element thickness, minimum edge distances and spacing



Top view: Concrete member with 2 fixing anchors embedded.

Thread size	d	[mm]	M 10	M 12	M 16	M 20
Minimum spacing	S_{min}	[mm]	100	100	100	120
Minimum edge distance	C_{min}	[mm]	50	50	50	60
Minimum element thickness	h_{min}	[mm]	$h_{nom} + c_{nom}^*$			

h_{nom} : embedment depth; c_{nom} : concrete cover

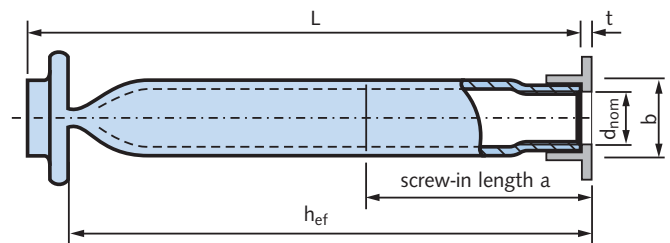
* c_{nom} acc. to EN 1992-1 with $c_{nom} \geq 20$ mm

For fixing anchors made of stainless steel a minimum concrete cover $c_{nom} = 20$ mm is sufficient.

T-FIXX A4



T-FIXX A4



Anchor description

The T-FIXX A4 is manufactured from a stainless steel tube (strength class A4-50).

The internal thread is metric ISO.

For identification a white plastic clip is attached ($t=2$ mm).



Please download our calculation software to calculate the load capacity of this anchor according to CEN/TS 1992-4-1/2.

www.halfen.com → downloads → software.

For information about our software see page 40.

T-FIXX A4 incl. identification clip (white)

Order no.	Dimensions				Design loads for tension ^①		Design loads for shear ^①	
	$d_{nom} \times L$	h_{ef}	a	b	$N_{Rd,c}$ [kN]	$N_{Rd,c}$ [kN]	$V_{Rd,c}$ [kN]	$V_{Rd,c}$ [kN]
	[mm]	[mm]	[mm]	[mm]	C20/25	C45/55	C20/25	C45/55
0020.270-00101	M10 × 50	43.7	32	13.5	8.2	8.9	5.4	5.4
0020.270-00102	M10 × 65	58.7	32	13.5	8.9	8.9	5.4	5.4
0020.270-00103	M12 × 50	42.5	30	17.2	7.9	11.6	7.9	9.4
0020.270-00104	M12 × 70	62.5	38	17.2	14.0	15.6	9.4	9.4
0020.270-00105	M12 × 115	107.5	38	17.2	15.6	15.6	9.4	9.4
0020.270-00106	M16 × 60	51.3	32	21.3	10.4	15.4	10.4	14.9
0020.270-00107	M16 × 80	71.3	50	21.3	17.1	25.0	14.9	14.9
0020.270-00108	M16 × 110	101.3	50	21.3	25.0	25.0	14.9	14.9
0020.270-00109	M20 × 70	61.2	44	26.9	13.6	20.1	13.6	19.4
0020.270-00110	M20 × 100	91.2	62	26.9	24.7	32.3	19.4	19.4
0020.270-00111	M20 × 125	116.2	62	26.9	32.3	32.3	19.4	19.4

① The design load is the calculation value according to CEN/TS 1992-4-1/2 for tensile or shear force in plain concrete without load-reducing influences. Values only apply for cracked concrete; no dense reinforcement (risk of shell spalling). Design loads are valid for permanent fixings and are not permitted for lifting!