

Rock concrete screws

With optimized mechanical properties!



NEW
to our product range

Fastening without plugs

The Rock concrete screw is used for direct fastening, without a plug, in solid substrates such as concrete and brickwork.

Once the hole is pilot-drilled, the screws are simply screwed in.

During screwing, the thread cuts a perfectly fitting mating thread in the subsurface.



Advantages

- Installation without plugs
- No expansion effect, so shorter edge distances are possible
- High extraction-resistance values

Application

- Drill hole according to specification
- Position the part to be attached
- Insert the screw

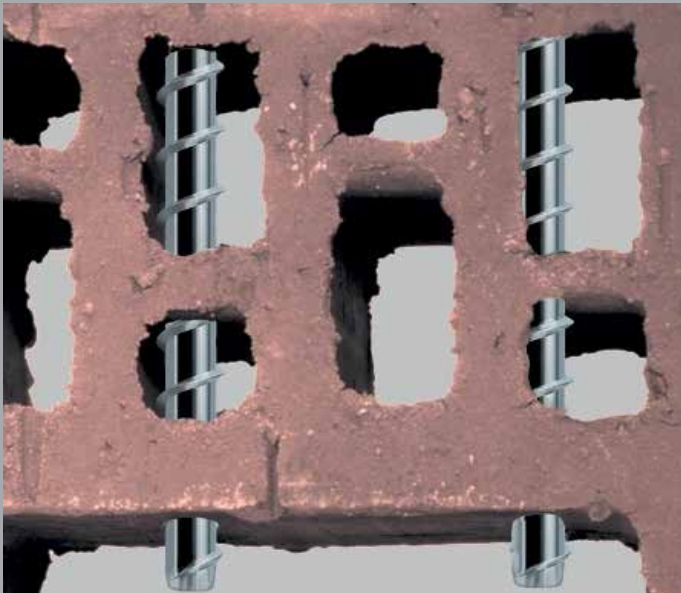
Rock concrete screw

hexagonal, galvanised steel
specially coated



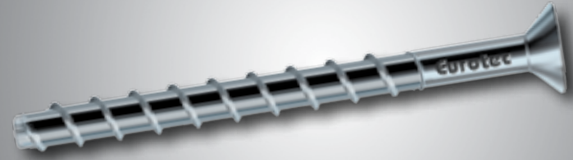
Art. no.	Dimensions (mm)	Head	PU
galvanised steel:			
110338	7,5 x 40	SW13	100
110339	7,5 x 50	SW13	100
110340	7,5 x 60	SW13	100
110341	7,5 x 80	SW13	100
110342	10,5 x 60	SW15	100
110343	10,5 x 80	SW15	100
110344	10,5 x 100	SW15	100
110345	10,5 x 120	SW15	100
110346	10,5 x 140	SW15	100
110347	10,5 x 160	SW15	100
specially coated:			
110336	12,5 x 60	SW17	100
110337	12,5 x 80	SW17	100
110327	12,5 x 100	SW17	100
110328	12,5 x 120	SW17	100
110329	12,5 x 140	SW17	100
110330	12,5 x 160	SW17	100
110331	12,5 x 180	SW17	50
110332	12,5 x 200	SW17	50
110333	12,5 x 240	SW17	50
110334	12,5 x 280	SW17	50
110335	12,5 x 320	SW17	50

• Suitable for fastening in: concrete, solid brick, lightweight concrete, porous concrete (from type G5 onwards), pumice, sand-lime brick, perforated brick.

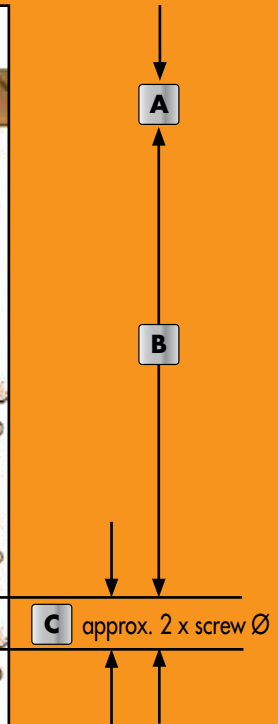


Rock concrete screw

countersunk head, galvanised steel



Art. no.	Dimensions (mm)	Drive	PU
110348	7,5 x 40	TX40 ●	100
110349	7,5 x 60	TX40 ●	100
110350	7,5 x 80	TX40 ●	100
110351	7,5 x 100	TX40 ●	100
110352	7,5 x 120	TX40 ●	100
110353	7,5 x 140	TX40 ●	100
110354	7,5 x 160	TX40 ●	100



A Thickness of the material to be fastened

B Minimum screwing depth

A + **B** Screw length

B + **C** Depth of drill hole

Technical informations Rock concrete screw

Dimensions (mm)	Ø Head (mm)	Attachment thickness (mm)	Insertion depth (mm)	Tensile load capacity ¹⁾ kN Concrete type C20/25		Transverse load ²⁾ kN Calculation ETAG 001		Edge distance (mm) Recommended minimum values		Drill hole (mm) Production
				Concrete cracked	Concrete uncracked	Timber-on-concrete connection	Steel-on-concrete connection	Edge/centre distance	Min. subsurface thickness	
Ø x length	dk	AT	ID							
Rock hexagonal										
7,5 x 40	SW13	5	35	1,97	2,76	1,15	3,08	50	90	6 x 50
7,5 x 50	SW13	10	40	2,41	3,37	1,19	3,16	50	90	6 x 55
7,5 x 60	SW13	20	40	2,41	3,37	1,19	3,16	50	90	6 x 55
7,5 x 80	SW13	40	40	2,41	3,37	1,19	3,16	50	90	6 x 55
10,5 x 60	SW15	10	50	3,37	4,71	1,63	4,35	60	110	8 x 70
10,5 x 80	SW15	20	60	4,43	6,20	1,69	4,51	60	110	8 x 80
10,5 x 100	SW15	40	60	4,43	6,20	1,69	4,51	60	110	8 x 80
10,5 x 120	SW15	60	60	4,43	6,20	1,69	4,51	60	110	8 x 80
10,5 x 140	SW15	80	60	4,43	6,20	1,69	4,51	60	110	8 x 80
10,5 x 160	SW15	100	60	4,43	6,20	1,69	4,51	60	110	8 x 80
12,5 x 80	SW17	10	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 100	SW17	30	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 120	SW17	50	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 140	SW17	70	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 160	SW17	90	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 180	SW17	110	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 200	SW17	130	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 240	SW17	170	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 280	SW17	210	70	5,58	7,81	5,33	8,54	90	125	10 x 90
12,5 x 320	SW17	250	70	5,58	7,81	5,33	8,54	90	125	10 x 90
Rock countersunk-head										
7,5 x 40	14,0	5	35	1,97	2,76	1,15	3,08	50	90	6 x 50
7,5 x 60	14,0	20	40	2,41	3,37	1,19	3,16	50	90	6 x 55
7,5 x 80	14,0	40	40	2,41	3,37	1,19	3,16	50	90	6 x 55
7,5 x 100	14,0	60	40	2,41	3,37	1,19	3,16	50	90	6 x 55
7,5 x 120	14,0	80	40	2,41	3,37	1,19	3,16	50	90	6 x 55
7,5 x 140	14,0	100	40	2,41	3,37	1,19	3,16	50	90	6 x 55
7,5 x 160	14,0	120	40	2,41	3,37	1,19	3,16	50	90	6 x 55

¹⁾ ETAG 001 / 1997 Annex C calculation method for anchorages in concrete. Permissible recommended tensile load in compliance with the stated insertion depths and edge distances. Safety concept ETAG 001 Annex C, 3.2.3.1 and 3.2.3.2. Calculation resistance for tensile load of an individual plug with no edge effect; concrete reinforced normally.

²⁾ Calculation of transverse load ETAG 001 Annex C Fig. 4.7a. Steel connection without lever arm and without edge effect. Timber connection with lever arm* and without tensile load. * Half of the attached part is calculated as a lever arm.

Please note: These are planning aids. Projects must only be calculated by authorised persons.

Bolt anchor

For heavy-duty fastening in uncracked concrete



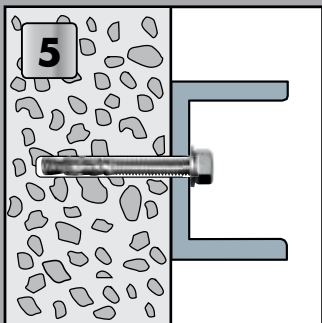
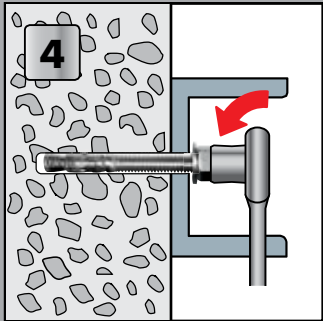
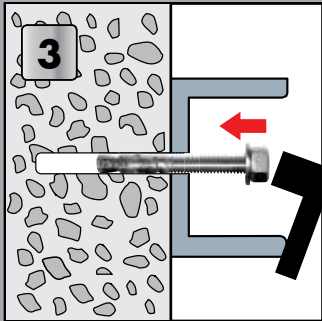
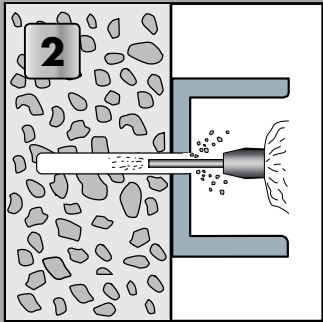
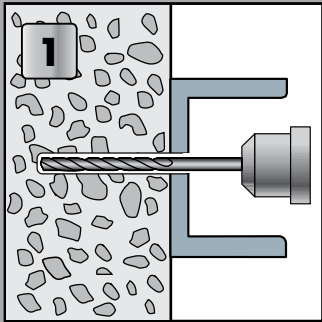
Torque-controlled expanding plug

The Eurotec bolt anchor is a torque-controlled expanding plug made of electrogalvanised steel for through-hole mounting in uncracked concrete. The special thing about the bolt anchor is that it is possible to maintain small centre and edge distances despite the high load-bearing capacity. Different anchoring depths and various sizes mean the bolt anchor can be used in a variety of ways. Every bolt anchor is fitted with an expansion clip, which ensures high load-bearing capacity and means less fastening points are needed.

NEW
to our product range

Bolt anchor

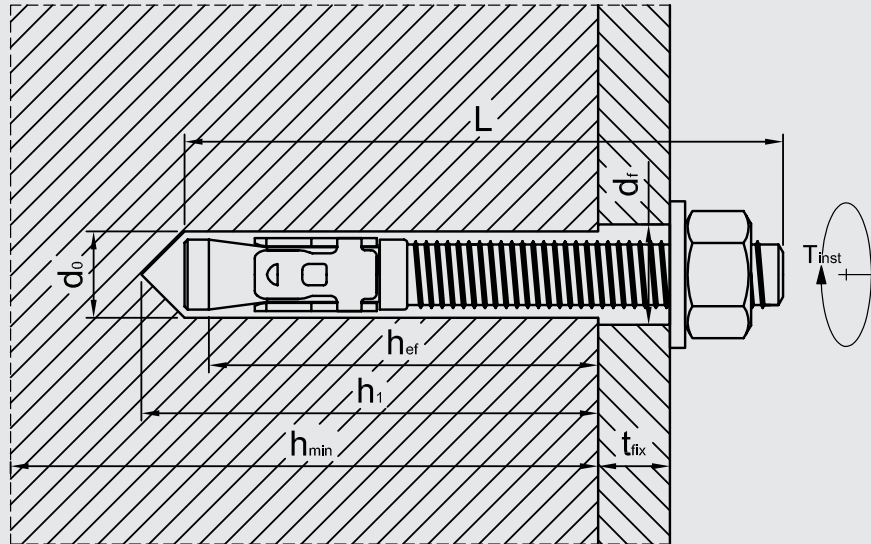
With washer, electrogalvanised



- 1** Create drill hole
- 2** Clean drill hole thoroughly
- 3** Drive in bolt anchor with a hammer
- 4** Screw on the hexagonal nut until the appropriate torque is reached
- 5** Done!

Art. no.	Dimensions (mm)	Head	PU
946170	6,0 x 55	SW10	200
646171	6,0 x 85	SW10	200
946172	8,0 x 50	SW13	100
946173	8,0 x 75	SW13	100
946174	8,0 x 95	SW13	100
946175	8,0 x 115	SW13	100
946176	8,0 x 135	SW13	100
946177	10,0 x 60	SW17	100
946178	10,0 x 80	SW17	50
946179	10,0 x 100	SW17	50
946180	10,0 x 120	SW17	50
946181	10,0 x 140	SW17	50
946182	12,0 x 80	SW19	50
946183	12,0 x 95	SW19	50
946184	12,0 x 110	SW19	50
946185	12,0 x 130	SW19	50
946186	12,0 x 160	SW19	25
946187	12,0 x 180	SW19	25
946188	16,0 x 125	SW24	25
946189	16,0 x 145	SW24	20
946190	16,0 x 180	SW24	20
to DIN 440:			
946191	12,0 x 200	SW19	25
946192	12,0 x 220	SW19	25
946193	12,0 x 240	SW19	25
946194	12,0 x 260	SW19	25
946195	16,0 x 220	SW24	20
946196	16,0 x 240	SW24	20
946197	16,0 x 260	SW24	20

Technical informations



Dimensions [mm]	Min. subsurface thickness h_{min} [mm]	Drill diameter d_o [mm]	Min. depth of drill hole h_1 [mm]	Min. anchoring depth h_{ef} [mm]	Max. drill diameter in attached part d_r [mm]	Max. working length t_{fix} [mm]	Installation torque T_{inst} [Nm]
$\emptyset \times$ length							
Bolt anchor with washer							
6,0 x 55	100	6	50	35	7	10	
6,0 x 85	100	6	50	35	7	40	
8,0 x 50	100	8	55	40	9	1	15
8,0 x 75	100	8	55	40	9	25	15
8,0 x 95	100	8	55	40	9	45	15
8,0 x 115	100	8	55	40	9	65	15
8,0 x 135	100	8	55	40	9	85	15
10,0 x 60	100	10	65	50	12	1	25
10,0 x 80	100	10	65	50	12	20	25
10,0 x 100	100	10	65	50	12	40	25
10,0 x 120	100	10	65	50	12	60	25
10,0 x 140	100	10	65	50	12	80	25
12,0 x 80	110	12	80	65	14	1	40
12,0 x 95	110	12	80	65	14	15	40
12,0 x 110	110	12	80	65	14	30	40
12,0 x 130	110	12	80	65	14	50	40
12,0 x 160	110	12	80	65	14	80	40
12,0 x 180	110	12	80	65	14	100	40
16,0 x 125	120	16	90	80	18	25	80
16,0 x 145	120	16	90	80	18	45	80
16,0 x 180	120	16	90	80	18	80	80
Bolt anchor with washer according to DIN 440							
12,0 x 200	110	12	80	65	14	120	40
12,0 x 220	110	12	80	65	14	135	40
12,0 x 240	110	12	80	65	14	175	40
12,0 x 260	110	12	80	65	14	195	40
16,0 x 220	120	16	90	80	18	120	80
16,0 x 240	120	16	90	80	18	160	80
16,0 x 260	120	16	90	80	18	180	80

Frame fixing

Set consisting of fixing and screw



ERD frame fixing

The EuroTec countersunk/cylinder-head frame fixing can be used for multiple fastenings of, e.g., façade substructures in concrete and brickwork. It consists of a plastic plug and an electrogalvanised countersunk screw (TX 40) / hexagon screw (AF 13).



Advantages

- Through-hole mounting
- Ready for loading immediately
- The hammer-in stop prevents premature expansion of the plug during installation



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ERD SK frame fixing

countersunk head



ERD ZK frame fixing

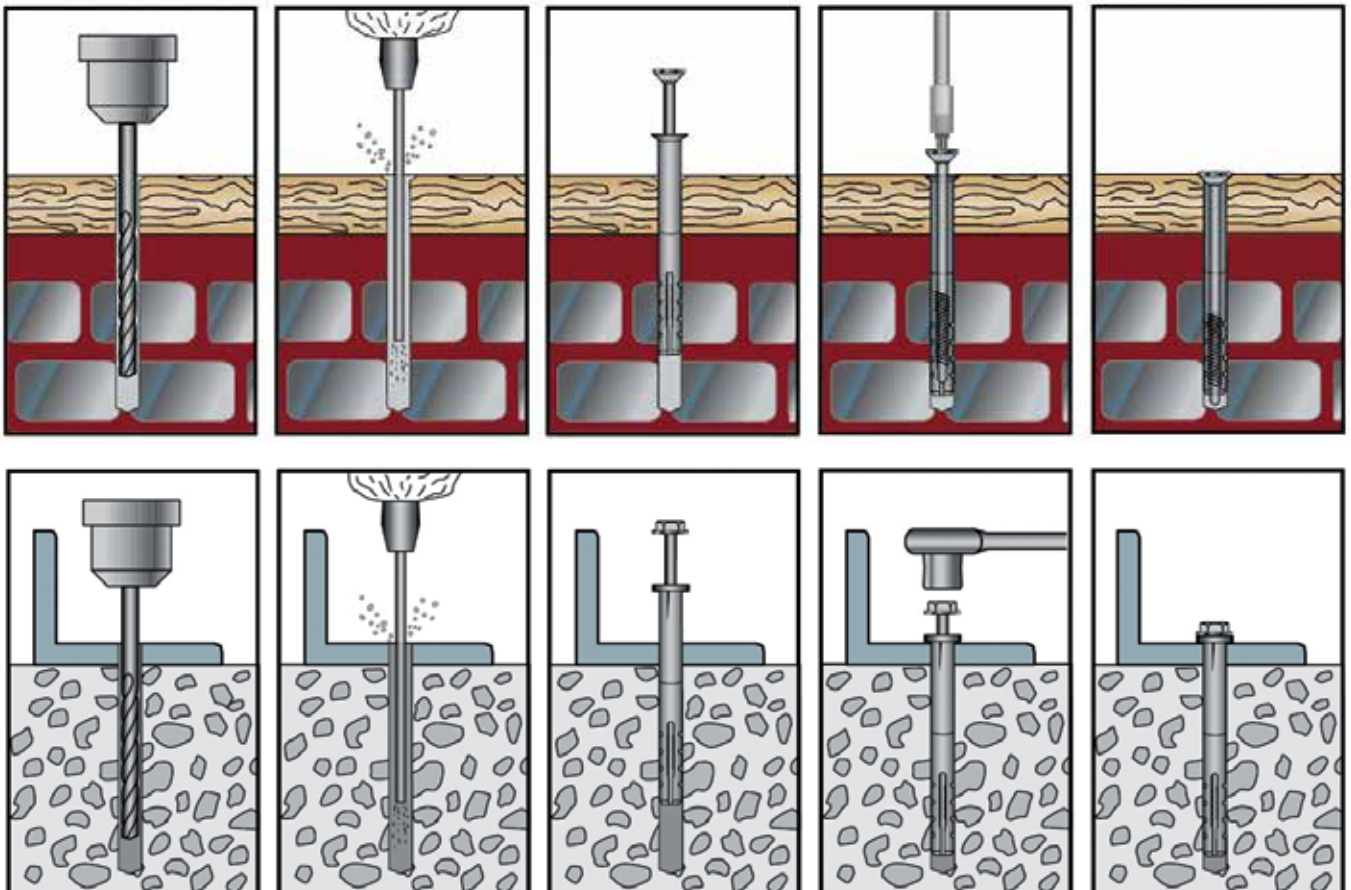
cylinder head



Art. no.	Dimensions (mm)	Drive	PU
200012	Ø 10,0 x 80	TX40 ●	50
200013	Ø 10,0 x 100	TX40 ●	50
200014	Ø 10,0 x 120	TX40 ●	50
200015	Ø 10,0 x 140	TX40 ●	50
200016	Ø 10,0 x 160	TX40 ●	50
200017	Ø 10,0 x 180	TX40 ●	50
200018	Ø 10,0 x 200	TX40 ●	50
200019	Ø 10,0 x 230	TX40 ●	25
200020	Ø 10,0 x 260	TX40 ●	25

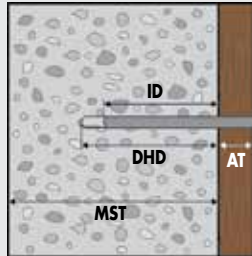
Art. no.	Dimensions (mm)	Drive	PU
200021	Ø 10,0 x 80	SW13	50
200022	Ø 10,0 x 100	SW13	50
200023	Ø 10,0 x 120	SW13	50
200024	Ø 10,0 x 140	SW13	50
200025	Ø 10,0 x 160	SW13	50
200026	Ø 10,0 x 180	SW13	50

Application example



Our hint: Drill using rotary mode for perforated bricks and hollow blocks. Do not use hammer mode! Remove the drillings from the drill hole!

Technical informations



AT = Attachment thickness

ID = Insertion depth

DHD = Drill-hole depth

MST = Minimum subsurface thickness

ERD frame fixing SK	Art. no.	Dimensions plug (mm)	Drive screw	Drill Ø subsurface (mm)	Min. drill hole depth DHD (mm)	Min. plug insertion depth ID (mm)	Max. drill Ø in attached part (mm)	Max. attachment thickness AT (mm)
	200012	Ø 10 x 80	TX40	10	70	60	10,5	20
	200013	Ø 10 x 100	TX40	10	70	60	10,5	40
	200014	Ø 10 x 120	TX40	10	70	60	10,5	60
	200015	Ø 10 x 140	TX40	10	70	60	10,5	80
	200016	Ø 10 x 160	TX40	10	70	60	10,5	100
	200017	Ø 10 x 180	TX40	10	70	60	10,5	120
	200018	Ø 10 x 200	TX40	10	70	60	10,5	140
	200019	Ø 10 x 230	TX40	10	70	60	10,5	170
	200020	Ø 10 x 260	TX40	10	70	60	10,5	200

ERD frame fixing ZK	Art. no.	Dimensions depth (mm)	Head screw	Drill Ø subsurface (mm)	Min. drill hole depth DHD (mm)	Min. plug insertion depth ID (mm)	Max. drill Ø in attached part (mm)	Max. attachment thickness AT (mm)
	200021	Ø 10 x 80	SW13	10	70	60	10,5	20
	200022	Ø 10 x 100	SW13	10	70	60	10,5	40
	200023	Ø 10 x 120	SW13	10	70	60	10,5	60
	200024	Ø 10 x 140	SW13	10	70	60	10,5	80
	200025	Ø 10 x 160	SW13	10	70	60	10,5	100
	200026	Ø 10 x 180	SW13	10	70	60	10,5	120

Subsurface	Strength class ^{a)}	Char. load-bearing capacity $N_{Rk,p}$ (kN)	Drilling method ^{b)}	Min. subsurface thickness MST (mm)	Min. edge distance (mm)	Min. centre distance (mm)
Concrete	C12/15 ≥ C16/20	3,0 4,5	H	100	140 100	110 80
Vertically perforated brick DIN 105	HLz 6 - 0,7 HLz 8 - 0,9 HLz 10 - 0,9 HLz 12 - 0,9	0,4 0,4 0,5 0,6	R	100	100	250
Hollow block made of light-weight concrete DIN EN 771-3	Hbl 4 - 1,2	1,5	R	100	100	250
Perforated sand-lime brick DIN 106	KSL 8 - 1,4 KSL 10 - 1,4 KSL 12 - 1,4	1,5 1,5 2,0	R	100	100	250
Solid sand-lime brick DIN 106	KS 10 - 2,0 KS 20 - 2,0 KS 28 - 2,0	1,2 1,5 2,0	R	100	150	250
Solid lightweight concrete brick DIN 18152	V 4 - 1,2 V 6 - 1,2	1,5 2,0	R	100	100	250
Masonry brick DIN 105	Mz 10 - 1,8 Mz 20 - 1,8	3,0 4,0	H	100	100	250

a) Indication of strength class of masonry blocks: e.g. MB 10 – 1.8 = masonry brick with min. compressive strength 10 N/mm² and min. bulk density of 1.8 kg/m³

b) H = hammer drilling, R = rotary drilling

Multi plug

For chipboard screws and wood construction screws



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EMD multi plug

The EuroTec multi plug (EMD) with collar is made of plastic and is suitable for installation in concrete, solid bricks, perforated bricks and other highstrength building materials.

The EMD expands in solid building materials and forms a knot in hollow building materials. The plastic plug can be installed using a chipboard screw or a wood-construction screw.

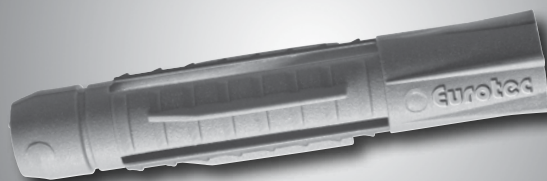


Advantages

- The collar prevents the plug from penetrating too deep into the drill hole.
- The anti-twist element prevents it from turning with the screw in the hole.

EMD multi plug

with collar



Art. no.	Dimensions (mm)	PU
200000	Ø 6,0 x 36	200
200001	Ø 8,0 x 50	200
200002	Ø 10,0 x 60	100
200003	Ø 12,0 x 70	50

Art. no.	Drill Ø subsurface (mm)	Min. drill-hole depth (mm)	Screws (mm)
200000	6	45	4,0
200001	8	60	4,5
200002	10	70	6,0
200003	12	80	8,0

Nail plug

Set consisting of plug and screw

END Nail plug

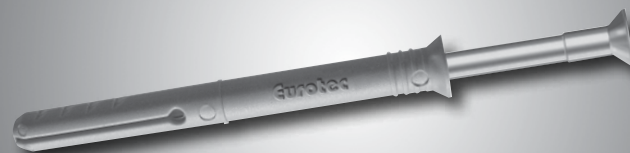
The EuroTec hammer-in frame fixing (END) is suitable for fastening in concrete, solid bricks, sand-lime bricks and other high-strength building materials. It consists of an electrogalvanised crosshead screw (PZ2) and a countersunk plastic plug.



Advantages

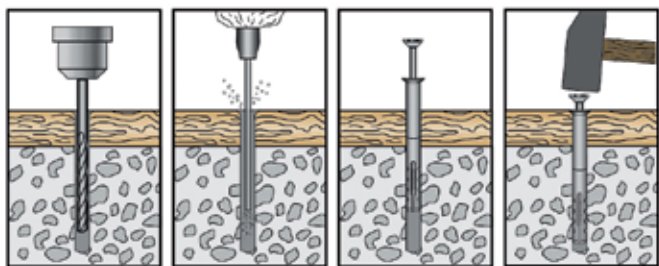
- Fast and efficient installation
- Saves time thanks to preinstalled threaded nail
- Especially suited to working with timber and lightweight-construction profiles
- Easy to remove with crosshead drive

END Nail plug countersunk head



Art. no.	Dimensions (mm)	Drive	PU
200004	Ø 5,0 x 30	PZ 2	200
200005	Ø 5,0 x 40	PZ 2	200
200006	Ø 6,0 x 40	PZ 2	200
200007	Ø 6,0 x 60	PZ 2	200
200008	Ø 6,0 x 80	PZ 2	200
200009	Ø 8,0 x 60	PZ 2	100
200010	Ø 8,0 x 80	PZ 2	100
200011	Ø 8,0 x 100	PZ 2	100

Application example



Art. no.	Dimensions	Drill Ø subsurface (mm)	Min. drill hole depth DHD (mm)	Min. plug insertion depth ID (mm)	Max. drill Ø in attached part (mm)	Max. attachment thickness AT (mm)
200004	Ø 5 x 30	5	30	20	5	10
200005	Ø 5 x 40	5	30	20	5	20
200006	Ø 6 x 40	6	35	25	6	15
200007	Ø 6 x 60	6	35	25	6	35
200008	Ø 6 x 80	6	35	25	6	55
200009	Ø 8 x 60	8	50	40	8	20
200010	Ø 8 x 80	8	50	40	8	40
200011	Ø 8 x 100	8	50	40	8	60

Impact rivets

A multi-purpose fastening element with outstanding holding force



Product features

- Can be used in concrete, sand-lime brick, ordinary construction bricks, timber and firm plaster
- Installation is like child's play: drill hole, insert impact rivet, expand by hitting with a hammer – done
- Can be used irrespective of drill-hole depth

Fields of application: concrete, brickwork, firm plaster, timber; substructures for roof, ceiling and wall

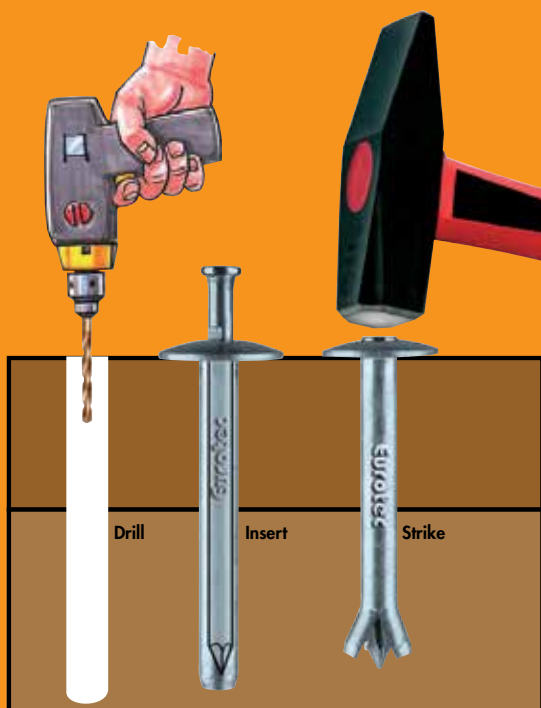


Impact fastening of

- Aluminium, sheet-metal, wall-end and roof-edge profiles
- Chimney flashing, wall coping
- Skylights, roof gullies, roof hatches, smoke extractors, flues
- Moisture-proof roofing sheets, flat-roof end profiles
- Linings and membrane connections for swimming pools
- Flange fastenings
- Frames, door and window frames
- Battens, insulation material
- Floor coverings and much more

Impact rivets

Aluminium rivet body/ stainless-steel mandrel



Art. no.	Shaft Ø x rivet length (mm)	Drill Ø (mm)	Max. attachment thickness AT (mm)	PU
111246	4,8 x 16	4,0	11,0	200
111247	4,8 x 20	4,0	15,0	200
111248	4,8 x 26	4,0	20,0	200
111249	4,8 x 30	4,0	25,0	200
111250	4,8 x 35	4,0	30,0	200
111251	4,8 x 40	4,0	35,0	200
111252	4,8 x 50	4,0	45,0	200
111253	5,0 x 20	5,0	5,0	200
111254	5,0 x 30	5,0	15,0	200
111260	5,0 x 40	5,0	25,0	200

Ceiling anchor

The through-hole mounting



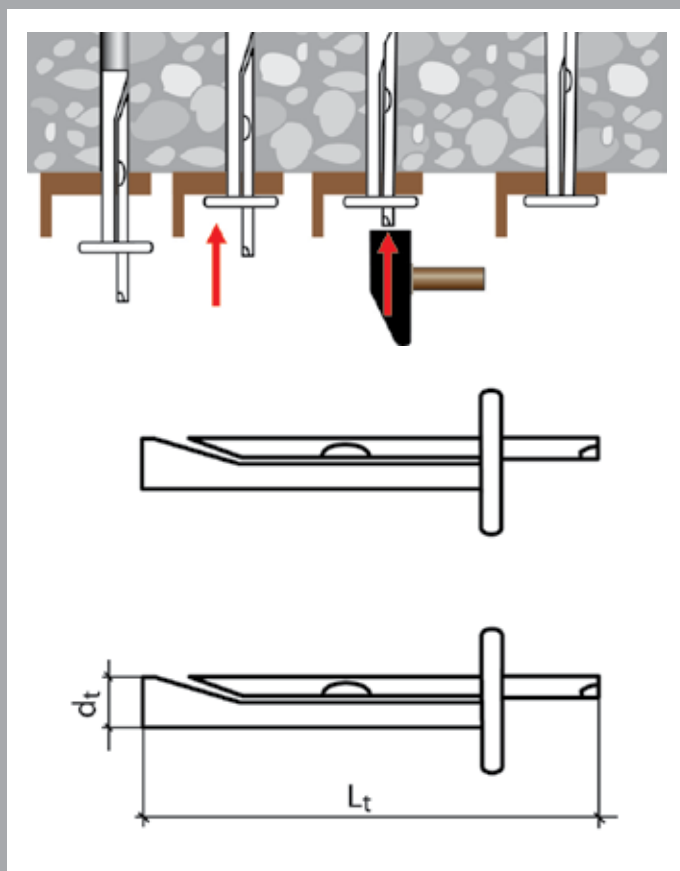
Galvanised ceiling anchor

The ceiling anchor is used as a through-hole mounting for fastening substructures/joining devices into concrete. It is suitable for concrete of strength classes from C20/25 to C50/60. The ceiling anchor must only be used for fastening non-load bearing systems at multiple locations.



Application

- Pilot-drill the base material to the desired depth (but at least 40 mm) with a diameter of 6 mm
- Minimum anchoring depth in the concrete: 32 mm
- Insert the ceiling anchor through the pre-drilled attachment
- Hammer in the pin



Art. no.	Dimensions (mm)	PU
110000	6,0 x 40	200
110001	6,0 x 70	200