

No.	Name	Material
1	Anchor	Zinc plated steel

**Building materials**



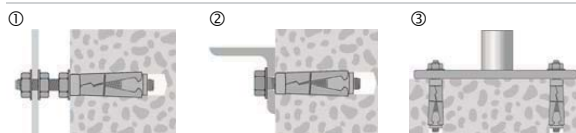
**Qualities**



**Characteristics**

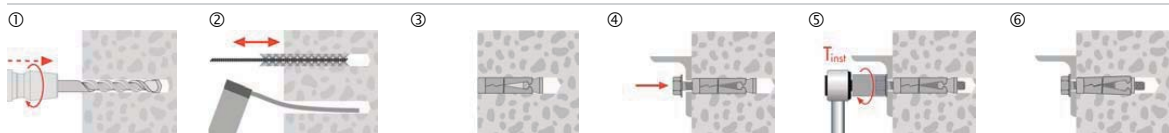
- Force-controlled anchor with internally thread without screw or bolt allow client-specified applications.
- Expansion corpus and cone made of steel.
- Strong expansion in the depth of the drill hole.
- Assembling in most concrete qualities, natural stone and solid brick .
- Application also in some perforated materials.
- Disassembling possible.

**Applications**



- ① Gap fixing.
- ② Connection assembling.
- ③ Floor assembling.
- Application on metal, machines, scaffolds, facades and door constructions.
- Versatile and reusable application of anchor rods and screws with most qualities and head designs.

**Installation**



- ① Take drill hole- $\varnothing$  and drill hole depth from the table.
- ② Clean the drill hole with a brush, then blow it out with a purging pump.
- ③ Insert the Shield Anchor into the building material.
- ④ Position the Building materials and fix it with a screw.
- ⑤ Tighten the screw with a torque spanner to the predetermined value  $T_{inst}$ .

All information detailed in our data sheets is based on technical approvals, formulas and site and laboratory testing under optimum conditions and include a stated safety factor. As we have no direct or indirect control over where or how our products are applied or installed, we do not accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification or recommendation given by us and we recommend site testing of all products for suitability.

Anchor size		M6	M8	M10	M12	M16	
Recommended tension loads: <sup>1)</sup>							
N <sub>Emp</sub>	- Concrete uncracked C20/25 - C50/60	kN	3.3	4.8	6.2	9.7	19
	- Solid brick, brick and sandstone		1.8	2.3	2.9	4.3	-
Recommended shear loads:							
V <sub>Emp</sub>	- Concrete uncracked C20/25 - C50/60 <sup>2)</sup>	kN	6.8	8.7	13.7	19.9	35.8
	- Solid brick, brick and sandstone		1.8	2.3	2.9	4.3	-
c	Min. distance to edge for tension load	mm	80	100	120	160	190
c	Min. distance to edge for shear load	mm	100	120	160	180	260
s	Min. distance betw. anchors	mm	120	150	180	250	290
h <sub>min</sub>	Min. thickness of foundation	mm	70	80	100	120	190
h <sub>ef</sub>	Effective anchorage depth	mm	42	43	50	62	98
d <sub>s</sub>	For screw-Ø	M	6	8	10	12	16
T <sub>inst</sub>	Torque at anchoring in concrete	Nm	6.5	15	27	50	120
T <sub>inst</sub>	Torque at anchoring in solid brick, brick and sandstone	Nm	5	7.5	13	23	-
h <sub>1</sub>	Drill hole depth	mm	55	65	85	105	145
d <sub>0</sub>	Drill hole-Ø in the building material	mm	12	14	16	20	25
d <sub>cut</sub>	Max. drill cut-Ø	mm	12.5	14.5	16.5	20.5	25.5
d <sub>f</sub>	Hole-Ø in the attached part	mm	7	9	12	14	18
l	Anchor length	mm	45	50	60	75	115
d <sub>nom</sub>	Anchor-Ø	mm	12	14	16	20	25



### Shield Anchor, steel

1) Without influence of anchor and edge distance / safety factor: breakage of concrete 3, breakage of steel 2.2  
 2) Shear load at use of screws with steel grade 8.8