

No.	Name	Material
1	Drop in Anchor	Zinc plated steel / stainless A4
1	Setting tool	Zinc plated steel

Building materials



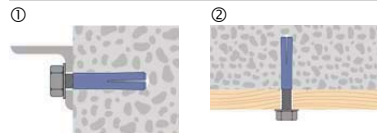
Qualities



Characteristics

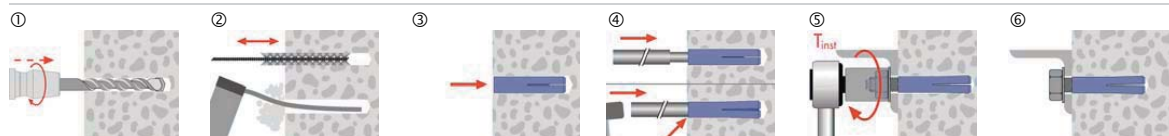
- Approved for lightweight suspended ceilings according to DIN 18168 in concrete $\geq C20/25$ and $\leq C50/60$
- Internally threaded anchor for metric screws of M6 - M 20 and loads up to 16 kN (in cracked concrete on the ceiling up to 1 kN / m²)
- The expansion force of the setting tool is conserved after dismantling of the screw.
- Can be used with screws from most materials.
- Fast, easy assembling with minor setting depth.
- Strengthened design M12 with anchor \varnothing 16 for use with diamond drill rigs and saws.

Applications



- ① Wall assembling.
- ② Ceiling assembling (uncracked / cracked concrete).
- For applications in outside sectors and damp locations use stainless A4 anchors.
- Required screw in depth from 1 to 1.5 x \varnothing thread.

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 Drop in Anchor.
- ④ Drive the cone into the plug with a setting tool.
- ⑤ Tighten the Building materials with the predetermined torque setting.
- ⑥ The screw can be dismantled anytime (anchor stays expanded in the base material).

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Anchor size		M6	M8	M10	M12	M16	M20			
Recommended tension loads: ¹⁾										
N _{Emp}	- Concrete uncracked C20/25 - C50/60	kN	2	3.2	5	7	9.7	16		
V _{Emp}	Recommended shear loads	kN	1.5	3	4.5	6.8	12	20		
c	Min. distance to the edge	mm	105	105	140	175	230	280		
s	Min. distance betw. anchors	mm	105	105	140	175	230	280		
h _{min}	Min. thickness of foundation	mm	100	100	100	120	140	180		
T _{inst}	Torque at anchoring	Nm	5	11	22	37	80	160		
h ₁	Drill hole depth	mm	33	33	44	54	71	86		
d ₀	Drill hole-Ø in the building material	mm	8	10	12	15	16	15	20	25
d _{cut}	Max. drill cut-Ø	mm	8.5	10.45	12.5	15.5	16.5	15.5	20.5	25.5
d _f	Hole-Ø in the attached part	mm	7	9	12	14	18	22		
l _G	Thread length	mm	11	13	15	18	23	34		
d _{nom}	Outside-Ø anchor	mm	8	10	12	15	16	15	20	25
l	Anchor length	mm	30	30	40	50	65	80		
Alloy			zinc plated stainless A4	zinc plated stainless A4	zinc plated stainless A4	zinc plated stainless A4	zinc plated stainless A4	zinc plated stainless A4	zinc plated stainless A4	zinc plated



Drop in Anchor

- 1) Without influence of anchor and edge distance / Safety factor 3
- 2) for diamond drill and diamond saw rigs

Approved loads for the application of lightweight ceilings and anchorage according to DIN 18168

Anchor size		M6	M8	M10	M12	
Approved tension loads:						
N _{Zul}	- Concrete cracked/uncracked C20/25 - C50/60	kN	0.5	0.5	0.8	0.8
c	Min. distance to the edge	mm	100	100	100	200
s	Min. distance betw. anchors	mm	400	400	400	400
h _{min}	Min. thickness of foundation	mm	100	100	100	100
T _{inst}	Torque at anchoring	Nm	2	3	6	15

Approved load in application of single fixing

Anchor size		M8	M10	M12	
Approved tension loads:					
N _{Zul}	- Concrete uncracked C20/25 - C50/60	kN	2	3	5.3
V _{Zul}	Recommended shear loads	kN	2	3	5.3
c	Min. distance to the edge	mm	90	120	150
s	Min. distance betw. anchors	mm	180	240	300
h _{min}	Min. thickness of foundation	mm	100	120	150
T _{inst}	Torque at anchoring	Nm	8	15	35

Setting Tool

The original Setting Tool is for the setting of the Drop in Anchor obligatory. The tool has to conform with the corresponding anchor sizes.

M6	M8	M10	M12	M16	M20
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Setting Tool

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