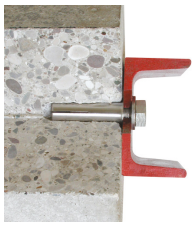
Technical data sheet

TAP
Rimmed Hammerset Anchor

Hammerset anchor with metric internal thread M6 - M16 for medium load range for anchoring in non-cracked concrete C20/25 - C50/60 and for multiple fixings of non-load bearing systems in concrete.



Features

Material

- Steel
- White zinc plated

Benefits

- Safe and controlled expansion
- Fast application
- Shallow embedment depth
- Rimmed plug version for easy installation flush with base material
- High strength in relation to embedment depths
- Fire resistance R120

Applications

Applications

- Suspended ceiling applications
- Pipework
- Sprinkler systems

Suitable for

- Multiple use for non-structural
- applications on cracked
- and non-cracked concrete
- Solid stone

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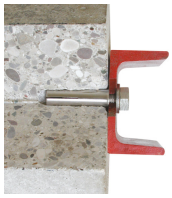
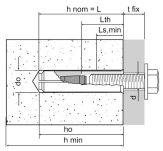
Product Dimension - Rimmed hammerset anchor





References	Product Reference	Plug [Ø x L]	Dimensions [dxL] [mm]	Hole diameter [d_0] [mm]	Cylindrical hole depth [h_0] [mm]	Nominal embedment depth [h_{nom}] [mm]	Threaded length [L_{th}] [mm]	Max. thread engagement [$L_{s,min}$] [mm]	Torque [T_{inst}] [Nm]	Qty per box	Qty per outer box
75205B0600000	TAP	8x25*	M6x25	8	25	25	11	6	4	100	2000
75205B0800000		10x30	M8x30	10	30	30	13	8	8	100	1000
75205B1003000		12x30*	M10x30	12	30	30	12	10	15	100	600
75205B1000000		12x40	M10x40	12	40	40	17	10	15	100	600
75205B1200000		15x50	M12x50	15	50	50	21	12	35	50	300
75205B1600000		20x65**	M16x65	20	65	65	30	16	60	25	150

** Only ETA 18/0433 ETAG 001 p.6 Multiple use*
*** Only ETA 18/0432 EAD-330232-00-0601 opt.7*
Screw Length: Minimum: $L_{s,min} + t_{fix}$ - Maximum: $L_{th} + t_{fix}$

Product Dimension - TAP Setting Tool

Table "Product Dimension - TAP Setting Tool" cannot be displayed : no references available.

tool

References	Product Reference	Qty per box
75205B0600000	TAP	100
75205B0800000	TAP	100
75205B1003000	TAP	100
75205B1000000	TAP	100
75205B1200000	TAP	50
75205B1600000	TAP	25

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Rimmed Hammerset Anchor

Design capacities - single anchor - no edge distances - ETA-18/0432

References	Recommented loads - Non-cracked concrete (3)									
	Dimensions [dxL] [mm]	Tension - N_{rec} (1)				Shear - V_{rec} (1-2)				Bending moment M_{rec} [Nm]
		C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	C20/25 [kN]	C30/37 [kN]	C40/50 [kN]	C50/60 [kN]	
75205B0600000	M6x25	-	-	-	-	-	-	-	-	-
75205B0800000	M8x30	3.3	4	4.7	5.1	4	4.9	5.6	6.2	8.98
75205B1003000	M10x30	-	-	-	-	-	-	-	-	-
75205B1000000	M10x40	5.1	6.2	7.2	7.9	6.1	7.4	8.6	9.5	17.9
75205B1200000	M12x50	6.1	7.4	8.6	9.5	8.5	10.4	12	13.2	17.9
75205B1600000	M16x65	9.9	12.1	14	15.3	25.2	30.7	35.6	35.9	31.37

1. The design loads loads have been calculated using the partial safety factors for resistances stated in ETA-approval(s). The loading figures are valid for unreinforced concrete and reinforced concrete with a rebar spacing s ≥ 15 cm (any diameter) or with a rebar spacing s ≥ 10 cm, if the rebar diameter is 10mm or smaller.
2. The figures for shear are based on a single anchor without influence of concrete edges. For anchorages close to edges (c ≤ max [10 hef; 60d]) the concrete edge failure shall be checked per ETAG 001, Annex C, design method A.
3. Concrete is considered non-cracked when the tensile stress within the concrete is\sigmaL +\sigmaR ≤ 0. In the absence of detailed verification\sigmaR = 3 N/mm² can be assumed (\sigmaL equals the tensile stress within the concrete induced by external loads, anchors loads included).
*Not covered by ETA-18/0432

Recommended capacities - multiple use cracked and un-cracked concrete ETA-18/0433

References	Product Reference	Dimensions [dxL] [mm]	cracked and uncracked concrete
			tension / shear load R_{rec} [kN]
75205B0600000	TAP	M6x25	0.5
75205B0800000	TAP	M8x30	0.7
75205B1003000	TAP	M10x30	-
75205B1000000	TAP	M10x40	1
75205B1200000	TAP	M12x50	1.4
75205B1600000	TAP	M16x65	-

The design loads F_{RD} derive from the characteristic loads on the ETA certification and are inclusive of the partial safety factors γ_M
The recommended loads F derive from the characteristic loads on the ETA certification and are inclusive of the partial safety factors γ_F=1.4 and γ_M

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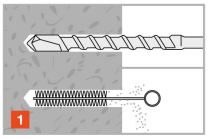
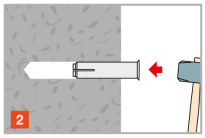
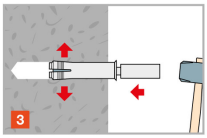
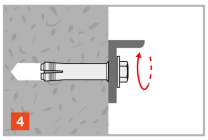
Installation









Installation data

References	Product Reference	Dimensions [dxL] [mm]	Ø drilling hole [d0] [mm]	Min. drill depth [h1] [mm]	Ø drilling fixture [df] [mm]	Wrench size [SW] [mm]	Installation torque [Tinst] [Nm]	Embedment depth [hef] [mm]	Min. support thickness [hmin] [mm]
75205B0600000	TAP	M6x25	8	25	7	-	4	25	-
75205B0800000	TAP	M8x30	10	30	9	-	8	30	100
75205B1003000	TAP	M10x30	12	40	12	-	15	40	100
75205B1000000	TAP	M10x40	12	40	12	-	15	40	100
75205B1200000	TAP	M12x50	15	50	14	-	35	50	100
75205B1600000	TAP	M16x65	20	65	18	-	60	65	130

Spacing and edge distances - ETA-18/0432

References	Product Reference	Dimensions [dxL] [mm]	Min. spacing [smin] [mm]	Min. edge distance [cmin] [mm]	Characteristic edge distance [ccr,N] [mm]	Characteristic spacing(5) - Scr,N [scr,N] [mm]
75205B0600000	TAP	M6x25	150	200	-	-
75205B0800000	TAP	M8x30	150	200	45	90
75205B1003000	TAP	M10x30	-	-	60	120
75205B1000000	TAP	M10x40	150	200	60	120
75205B1200000	TAP	M12x50	150	200	75	150
75205B1600000	TAP	M16x65	-	-	97	195

** Not included in the approval*

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