

Technický list

SIMPSON

Strong-Tie

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

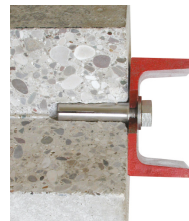
Applications

Applications

- Suspended ceiling applications
- Pipework
- Sprinkler systems

Suitable for

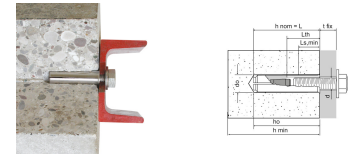
- Multiple use for non-structural applications on cracked and non-cracked concrete
- Solid stone



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Technical Data

Product Dimensions



Art. nr.	Product Reference	Dimensions [dxL] [mm]	Hole diameter [d _o] [mm]	Cylindrical hole depth [h _o] [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	M6x25*	8	25	25	11	6	4	100	2000
75205B0800000		M8x30	10	30	30	13	8	8	100	1000
75205B1000000		M10x40	12	40	40	17	10	15	100	600
75205B1200000		M12x50	15	50	50	21	12	35	50	300
75205B1600000		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: $L_{th} + t_{fix}$

tool



Art. nr.	Product Reference	D _s [mm]	H _s [mm]	Qty per box
75205B0600000	TAP	-	-	100
75205B0800000	TAP	-	-	100
75205B1000000	TAP	-	-	100
75205B1200000	TAP	-	-	50
75205B1600000	TAP	-	-	25
49002B060000C	TAP SWZ-M6	4.8	15	1
49002B080000C	TAP SWZ-M8	6.6	18	1
49002B100000C	TAP SWZ-M10	7.8	25	1
49002B120000C	TAP SWZ-M12	9.6	30	1
49002B160000C	TAP SWZ-M16	13.5	38	1

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

Art. nr.	Dimensions [dxL] [mm]	Recommended loads - Non-cracked concrete (3)							
		Tension - $N_{rec}^{(1)}$				Shear - $V_{rec}^{(1-2)}$			
		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
75205B1000000	M10x40	5.1	6.2	7.2	7.9	6.1	7.4	8.6	9.5
75205B1200000	M12x50	6.1	7.4	8.6	9.5	8.5	10.4	12	13.2
75205B1600000	M16x65**	9.9	12.1	14	15.3	25.2	30.7	35.6	35.9
49002B060000C	M6	-	-	-	-	-	-	-	-
49002B080000C	M8	-	-	-	-	-	-	-	-
49002B100000C	M10	-	-	-	-	-	-	-	-
49002B120000C	M12	-	-	-	-	-	-	-	-
49002B160000C	M16	-	-	-	-	-	-	-	-

1. The design 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 $s \geq 15$ cm (any diameter) or with a rebar spacing $s \geq 10$ 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 ($c \leq \max [10 \text{ hef}; 60d]$) 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 $\sigma_L + \sigma_R \leq 0$. In the absence of detailed verification $\sigma_R = 3 \text{ N/mm}^2$ can be assumed (σ_L 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

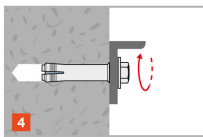
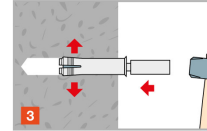
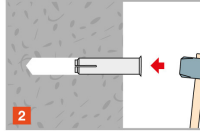
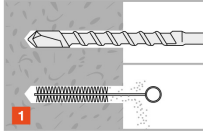
Art. nr.	Product Reference	Dimensions [dxL] [mm]	cracked and uncracked concrete
			tension / shear load R_{rec} [kN]
75205B0600000	TAP	M6x25*	0.5
75205B0800000	TAP	M8x30	0.7
75205B1000000	TAP	M10x40	1
75205B1200000	TAP	M12x50	1.4
75205B1600000	TAP	M16x65**	-
49002B060000C	TAP SWZ-M6	M6	-
49002B080000C	TAP SWZ-M8	M8	-
49002B100000C	TAP SWZ-M10	M10	-
49002B120000C	TAP SWZ-M12	M12	-
49002B160000C	TAP SWZ-M16	M16	-

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 $\gamma_F=1.4$ and γ_M

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Installation



Installation data

Art. nr.	Product Reference	Dimensions [dxL] [mm]	Ø drilling hole [d0] [mm]	Min. drill depth [h1] [mm]	Ø drilling fixture [df] [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
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
49002B060000C	TAP SWZ-M6	M6	-	-	-	-	-	-
49002B080000C	TAP SWZ-M8	M8	-	-	-	-	-	-
49002B100000C	TAP SWZ-M10	M10	-	-	-	-	-	-
49002B120000C	TAP SWZ-M12	M12	-	-	-	-	-	-
49002B160000C	TAP SWZ-M16	M16	-	-	-	-	-	-

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Spacing and edge distances - ETA-18/0432

Art. nr.	Product Reference	Dimensions [dxL] [mm]	Min. edge distance [cmin] [mm]	Min. spacing [smin] [mm]	Characteristic edge distance [ccr,N] [mm]	Characteristic spacing(5) - Scr,N [scr,N] [mm]
75205B0600000	TAP	M6x25*	-	-	-	-
75205B0800000	TAP	M8x30	41	41	45	90
75205B1000000	TAP	M10x40	54	54	60	120
75205B1200000	TAP	M12x50	68	68	75	150
75205B1600000	TAP	M16x65**	88	88	97	195
49002B0600000C	TAP SWZ-M6	M6	-	-	-	-
49002B0800000C	TAP SWZ-M8	M8	-	-	-	-
49002B1000000C	TAP SWZ-M10	M10	-	-	-	-
49002B1200000C	TAP SWZ-M12	M12	-	-	-	-
49002B1600000C	TAP SWZ-M16	M16	-	-	-	-

* Not included in the approval

Spacing and edge distance ETA-18-0433

Art. nr.	Product Reference	Dimensions [dxL] [mm]	Embedment depth h_{ef} [mm]	Min. support thickness h_{min} [mm]	Min. edge distance [cmin] [mm]	Min. spacing [smin] [mm]
75205B0600000	TAP	M6x25*	25	80	200	150
75205B0800000	TAP	M8x30	30	80	200	150
75205B1000000	TAP	M10x40	40	80	200	150
75205B1200000	TAP	M12x50	50	100	200	150
75205B1600000	TAP	M16x65**	-	-	-	-
49002B0600000C	TAP SWZ-M6	M6	-	-	-	-
49002B0800000C	TAP SWZ-M8	M8	-	-	-	-
49002B1000000C	TAP SWZ-M10	M10	-	-	-	-
49002B1200000C	TAP SWZ-M12	M12	-	-	-	-
49002B1600000C	TAP SWZ-M16	M16	-	-	-	-

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