

LIPPED WEDGE ANCHORS

– ETA Approved

Torqx Lipped Wedge Anchors in a Zinc Plated Finish (ZP), provide a threaded socket for a bolt or stud into concrete. These anchors are designed with a flange preventing them from penetrating too deep into the concrete.

They are quick and easy to install using the Torqx Setting Tool.



TECHNICAL INFORMATION

Part Number	Short Code	Drill Hole Dia.	Thread Size	Anchor Length	Min Edge Distance	Setting Tool Part Number	Tightening Torque
		mm					Nm
381919462	TQEL0825	10	M8	25	150	381920641	11
381919458	TQEL0830	10	M8	30	150	381920641	11
381919461	TQEL1025	12	M10	25	150	381920642	17
381919469	TQEL1030	12	M10	30	150	381920642	17
381919459	TQEL1040	12	M10	40	150	381920642	17
381919463	TQEL1225	15	M12	25	150	381920643	38

APPROVALS



ETA-25/0704

RECOMMENDED TOOLS



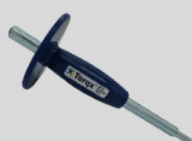
SDS Drill Bits



SDS Stop Drill



Blow Out Pump



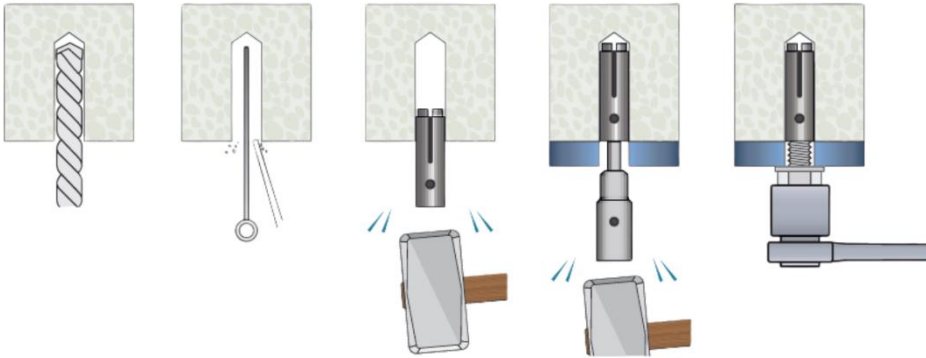
Setting Tool

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INSTALLATION INSTRUCTIONS



Drill a hole with the correct diameter to the specified depth.

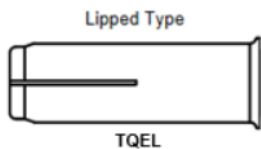
Clear the hole by blowing out any drilling debris and dust.

Insert the anchor into the concrete using an appropriate hammer.

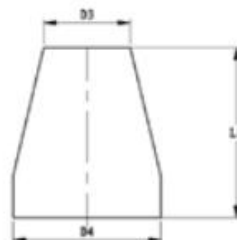
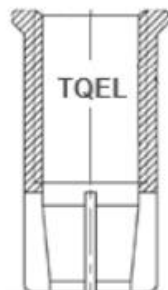
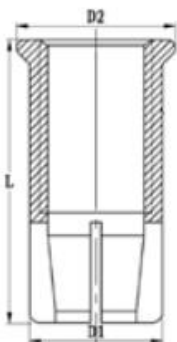
Hammer wedge, using the correct setting punch.

Tighten using a torque wrench to the specified torque setting.

TECHNICAL DIAGRAM



Marking on the body
TQE – anchor identification and type
XX – size



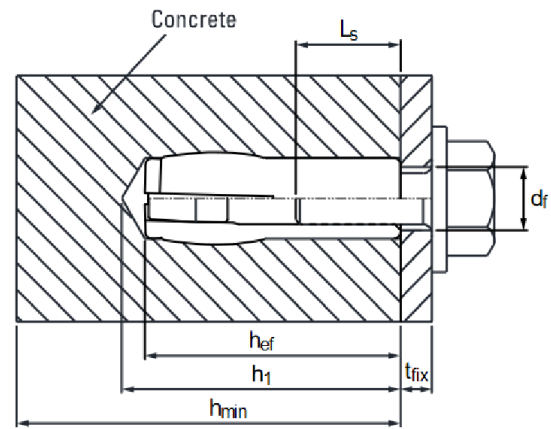
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TECHNICAL INFORMATION

Installation to Concrete



Fastening screws or threaded rods:

Steel, property class 4.8 / 5.8 / 6.8 / 8.8 according to EN-ISO 898-1; thickness of zinc coating $\geq 5 \mu\text{m}$

Part Number	Short Code	Drill Hole Dia.	Drill Hole Depth	Anchor Length	Fixture Clearance Hole Dia.	Min Thickness of Member	Min Screwing Depth	Max Screwing Depth	Min Spacing	Min Edge Distance	Tightening Torque
		mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
		d_0	h_1	h_{ef}	d_f	h_{min}	$L_{s,min}$	$L_{s,max}$	s_{min}	c_{min}	T_{inst}
381919462	TQEL0825	10	27	25	8	80	7	12	200	150	11
381919458	TQEL0830	10	33	30	9	80	8	13	200	150	11
381919461	TQEL1025	12	27	25	10	80	8	13	200	150	17
381919469	TQEL1030	12	33	30	12	80	10	13	200	150	17
381919459	TQEL1040	12	43	40	12	80	10	19	200	150	17
381919463	TQEL1225	15	27	25	12	80	10	13	200	150	38

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TECHNICAL INFORMATION

Resistance in Concrete C20/25 to C50/60

Part Number	Short Code	Thread Dia.	Overall Embedment Depth	Min Thickness of Member	Characteristic Resistance		Spacing	Edge Distance
					Load C20/25 to C50/60	Bending Moment		
		mm d_{nom}	mm $h_{nom} = h_{ef}$	mm h_{min}	kN F_{Rk}^0	Nm $M_{Rk,s}^0$	mm s_{cr}	mm c_{cr}
Steel Grade 4.8 (Y_{MS}^{1}) Safety Factor = 1.25								
381919462	TQEL0825	8	25	80	2.5	15.0	200	150
381919458	TQEL0830	8	30	80	4.0	15.0	200	150
381919461	TQEL1025	10	25	80	4.0	29.9	200	150
381919469	TQEL1030	10	30	80	4.5	30.0	200	150
381919459	TQEL1040	10	40	80	4.5	30.0	200	150
381919463	TQEL1225	12	25	80	4.0	52.4	200	150
Steel Grade 5.8 (Y_{MS}^{1}) Safety Factor = 1.25								
381919462	TQEL0825	8	25	80	2.5	19.0	200	150
381919458	TQEL0830	8	30	80	4.0	19.0	200	150
381919461	TQEL1025	10	25	80	4.0	37.0	200	150
381919469	TQEL1030	10	30	80	4.5	37.0	200	150
381919459	TQEL1040	10	40	80	4.5	37.0	200	150
381919463	TQEL1225	12	25	80	4.0	65.6	200	150
Steel Grade 6.8 (Y_{MS}^{1}) Safety Factor = 1.25								
381919462	TQEL0825	8	25	80	2.5	22.5	200	150
381919458	TQEL0830	8	30	80	4.0	23.0	200	150
381919461	TQEL1025	10	25	80	4.0	44.9	200	150
381919469	TQEL1030	10	30	80	4.5	45.0	200	150
381919459	TQEL1040	10	40	80	4.5	45.0	200	150
381919463	TQEL1225	12	25	80	4.0	78.7	200	150
Steel Grade 8.8 (Y_{MS}^{1}) Safety Factor = 1.25								
381919462	TQEL0825	8	25	80	2.5	30.0	200	150
381919458	TQEL0830	8	30	80	4.0	30.0	200	150
381919461	TQEL1025	10	25	80	4.0	59.9	200	150
381919469	TQEL1030	10	30	80	4.5	60.0	200	150
381919459	TQEL1040	10	40	80	4.5	60.0	200	150
381919463	TQEL1225	12	25	80	4.0	104.9	200	150

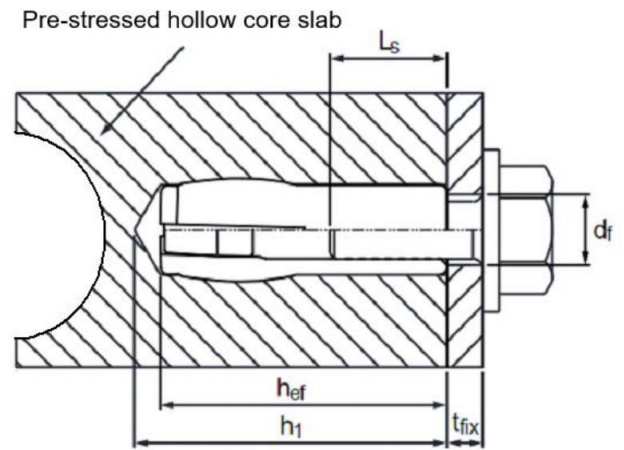
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TECHNICAL INFORMATION

Installation to Pre-Stressed Hollow Concrete Core Slab



Fastening screws or threaded rods:

Steel, property class 4.8 / 5.8 / 6.8 / 8.8 according to EN-ISO 898-1; thickness of zinc coating $\geq 5 \mu\text{m}$

Part Number	Short Code	Drill Hole Dia.	Drill Hole Depth	Anchor Length	Fixture Clearance Hole Dia.	Min Screwing Depth	Max Screwing Depth	Min Spacing	Min Edge Distance	Tightening Torque
		mm	mm	mm	mm	mm	mm	mm	mm	Nm
		d_0	h_1	h_{ef}	d_f	$L_{s,min}$	$L_{s,max}$	s_{min}	C_{min}	T_{inst}
381919462	TQEL0825	10	27	25	8	7	12	200	150	11
381919461	TQEL1025	12	27	25	10	8	13	200	150	17
381919463	TQEL1225	15	27	25	12	10	13	200	150	38

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TECHNICAL INFORMATION

Resistance in Hollow Concrete Core Slab C30/37 to C50/60

Part Number	Short Code	Thread Dia.	Overall Embedment Depth	Min Thickness of Member	Flange Thickness	Characteristic Resistance		Spacing	Edge Distance
						Load C20/25 to C50/60	Bending Moment		
Steel Grade 4.8 (Y _{MS} ⁻¹) Safety Factor = 1.25)									
381919462	TQEL0825	8	25	35	≥35	6.0	15.0	200	150
381919461	TQEL1025	10	25	35	≥35	6.5	29.9	200	150
381919463	TQEL1225	12	25	35	≥35	7.0	52.4	250	150
Steel Grade 5.8 (Y _{MS} ⁻¹) Safety Factor = 1.25)									
381919462	TQEL0825	8	25	35	≥35	6.0	18.8	200	150
381919461	TQEL1025	10	25	35	≥35	6.5	37.4	200	150
381919463	TQEL1225	12	25	35	≥35	7.0	65.5	250	150
Steel Grade 6.8 (Y _{MS} ⁻¹) Safety Factor = 1.25)									
381919462	TQEL0825	8	25	35	≥35	6.0	22.5	200	150
381919461	TQEL1025	10	25	35	≥35	6.5	44.9	200	150
381919463	TQEL1225	12	25	35	≥35	7.0	78.7	250	150
Steel Grade 8.8 (Y _{MS} ⁻¹) Safety Factor = 1.25)									
381919462	TQEL0825	8	25	35	≥35	6.0	30.0	200	150
381919461	TQEL1025	10	25	35	≥35	6.5	59.9	200	150
381919463	TQEL1225	12	25	35	≥35	7.0	104.9	250	150

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TECHNICAL INFORMATION

Characteristic Resistance under Fire Exposure in Concrete C20/25 to C50/60

Fastener			TQEL0830	TQEL1030	TQEL1040
Size			M8 x 30	M10 x 30	M10 x 40
Fire Resistance Class (fastening screw on threaded rod property class ≥ 4.8)					
R30	Characteristic Resistance $F_{Rk,fi}^{0,1)}$	kN	0.89	0.89	1.13
R60		kN	0.89	0.89	1.13
R90		kN	0.89	0.89	1.13
R120		kN	0.71	0.71	0.90
Spacing	$S_{cr,fi}$	mm	$4 \times h_{ef}$		
Edge Distance	$S_{cr,fi}$	mm	$2 \times h_{ef}$		

The design method covers fasteners with a fire attack from one side only. In case of fire attack from more than one side, the edge distance shall be ≥ 300 mm.

1) in the absence of other national regulation a partial safety factor $Y_{M,fi} = 1,0$ is recommended.

