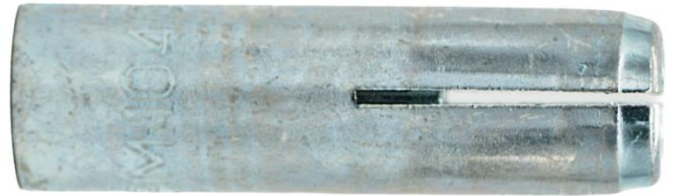


WEDGE ANCHORS

– ETA Approved

Torqx ETA Approved Wedge Anchors in Zinc and Clear Plated (ZP) finish, provide a threaded socket for a bolt or stud into concrete. They are quick and easy to install using a 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
381919456	TQE1040	12	M10	40	150	381920642	17

APPROVALS



ETA-25/0704

RECOMMENDED TOOLS



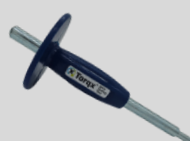
SDS Drill Bits



SDS Stop Drill



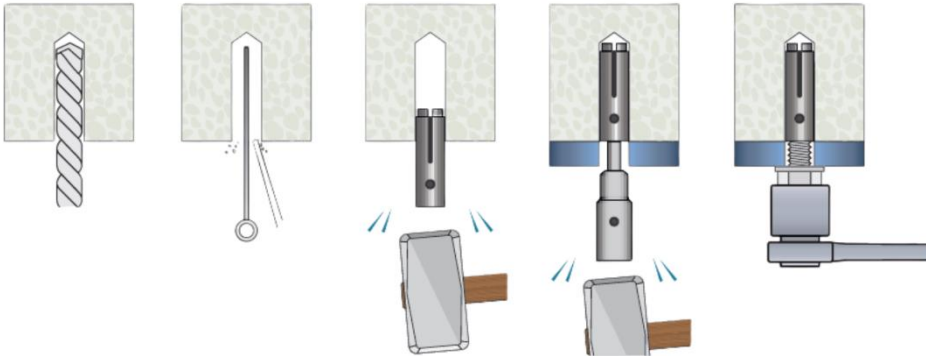
Blow Out Pump



Setting Tool

Remark: This technical data sheet replaces all previous versions. Technical data supplied by the manufacturer. The technical data contained herein is given in good faith and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings. The information detailed in this technical data sheet is given by way of indication and is not exhaustive, users should contact either the seller or the manufacturer of the product for additional technical information concerning its use, if they think the information in their possession needs to be clarified in any way. Any illustrations shown are indicative only, and dimensions may differ slightly from batch to batch.

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

Smooth Type

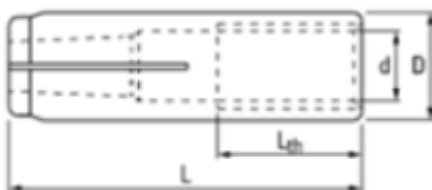


TQE

Marking on the body

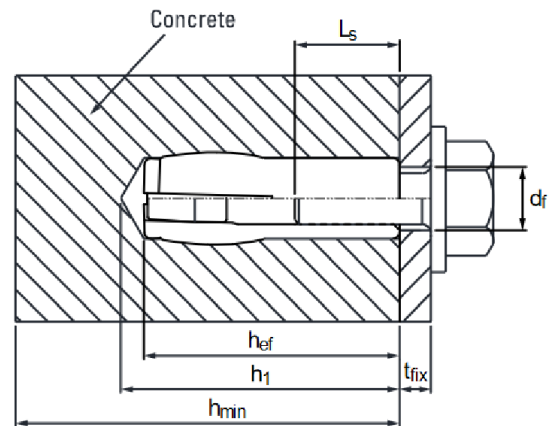
TQE – anchor identification and type

XX – size



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}
381919456	TQE1040	12	43	40	12	80	10	19	200	150	17

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_{0Rk}	Nm $M_{0Rk,5}$	mm s_{cr}	mm c_{cr}
Steel Grade 4.8 (Y_{MS}^{-1}) Safety Factor = 1.25)								
381919456	TQE1040	10	40	80	4.5	30.0	200	150
Steel Grade 5.8 (Y_{MS}^{-1}) Safety Factor = 1.25)								
381919456	TQE1040	10	40	80	4.5	37.0	200	150
Steel Grade 6.8 (Y_{MS}^{-1}) Safety Factor = 1.25)								
381919456	TQE1040	10	40	80	4.5	45.0	200	150
Steel Grade 8.8 (Y_{MS}^{-1}) Safety Factor = 1.25)								
381919456	TQE1040	10	40	80	4.5	60.0	200	150

TECHNICAL INFORMATION

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

Fastener			TQE1040
Size			M10 x 40
Fire Resistance Class (fastening screw on threaded rod property class ≥ 4.8)			
R30	Characteristic Resistance $F_{Rk, fi}^{0,1)}$	kN	1.13
R60		kN	1.13
R90		kN	1.13
R120		kN	0.90
Spacing	$S_{cr,fi}$	mm	4 x h _{ef}
Edge Distance	$S_{cr,fi}$	mm	2 x 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.