



Countersunk



ETA 07/0331

Product Information

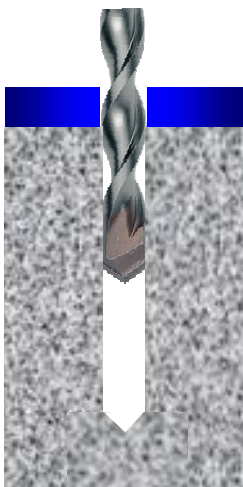
A zinc plated, torque controlled through fixing suitable for use in cracked and non-cracked concrete range between C20/25 & C50/60.

Features

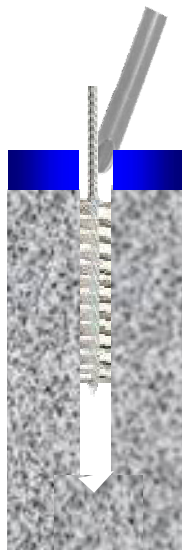
Through Fixing
Heavy duty loads
Torque controlled expansion
Option 1 European Technical Approval
Supplied pre-assembled for rapid installation

Range Data

Part Number	Thread Diam	Anchor Length	Drill Hole Diam	Maximum Fixture Thickness	Fixture Clearance Hole	Head Diam	Embedment Depth	Minimum Hole Depth	Structure Thickness	CSK Bolt Hexagon Drive	Installation Torque
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
SLSK10/10	6	70	10	10	12	16.5	60	65	105	4	15
SLSK10/25		85		25							
SLSK10/45		100		40							
SLSK12/10	8	80	12	10	14	20.5	70	80	125	5	30
SLSK12/25		95		25							
SLSK12/50		120		50							
SLSK15/10	10	100	15	10	17	24.5	85	95	145	6	50
SLSK15/25		110		25							
SLSK15/50		135		50							
SLSK18/20	12	115	18	20	20	29.5	95	105	165	8	80
SLSK18/40		135		40							



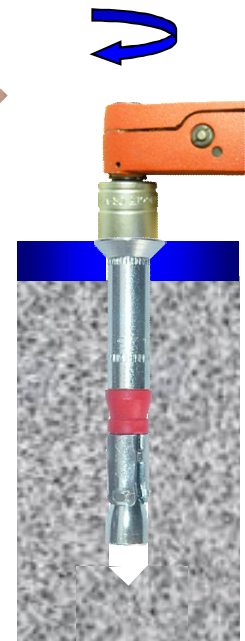
Position fixture and drill correct diameter hole to correct depth



Clean hole by brushing and blowing to remove all dust and drilling debris



Insert assembled anchor through fixture into concrete



Tighten with torque wrench to recommended torque



Non-Cracked concrete

Performance Data (20/25 Concrete)									
Thread Diam mm	Characteristic Resistance kN		Design Resistance (γ_{Ms} frpm ETA) kN		Approved Resistance ($\gamma_F=1.4$) kN		Design Spacing mm	Design Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile & Shear	Tensile
6	16.0	18.0	10.6	14.3	7.5	10.2	120	105	150
8	20.0	30.0	13.3	23.9	9.5	17.0	130	120	235
10	30.0	48.0	19.9	38.3	14.2	27.3	210	170	345
12	35.0	72.5	23.3	48.1	16.6	34.3	225	205	400

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance

Cracked concrete

Performance Data (20/25 Concrete)									
Thread Diam mm	Characteristic Resistance kN		Design Resistance (γ_{Ms} frpm ETA) kN		Approved Resistance ($\gamma_F=1.4$) kN		Design Spacing mm	Design Edge Distance mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear		Tensile	Tensile
6	5.0	18.0	3.3	14.3	2.3	10.2	50 ($C_{min} \geq 80$)	50 ($S_{min} \geq 100$)	220
8	12.0	33.4	7.9	22.3	5.6	15.9	75 ($C_{min} \geq 100$)	60 ($S_{min} \geq 120$)	315
10	16.0	43.0	10.6	28.7	7.5	20.5	105 ($C_{min} \geq 110$)	70 ($S_{min} \geq 215$)	365
12	25.0	51.5	16.6	34.3	11.8	24.5	225 ($C_{min} \geq 120$)	115 ($S_{min} \geq 245$)	405

Shear Loads towards a free edge are for single anchors where Spacing $\geq 3 \times$ Edge Distance

(C_{min} = Minimum Edge Distance for Spacing, S_{min} = Minimum Spacing for Edge Distance)

For variations in structure thickness, reduced spacing and edge calculations download the free [Anchor Calculation Program](http://www.jcpfixings.co.uk) from www.jcpfixings.co.uk

Influence of concrete strength

Concrete strength		C20/25	C25/30	C30/37	C40/50	C45/55	C50/60
Cylinder	N/mm ²	20	25	30	40	45	50
Cube	N/mm ²	25	30	37	50	55	60
Factor		1.0	1.1	1.22	1.41	1.48	1.55

When using concrete factors take care not to exceed Characteristic Steel Failure available from ETA