

### Product Information

A zinc plated, yellow passivated, torque controlled, sleeve anchor. Suitable for use in non-cracked concrete, dense concrete blocks, solid bricks and some natural stone.

### Features

Through Fixing  
Light to medium duty loads  
Torque controlled expansion  
Collapse feature to allow a positive clamping force  
Supplied pre-assembled for rapid installation

### Range Data

Part Number	Outside/ Drill Diam	Anchor Length	Thread Diam	Maximum Fixture Thickness	Fixture Clearance Hole	Embedment Depth	Minimum Hole Depth	Structure Thickness	Installation Torque
mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm
SLN08040	8	40	6	5	9	30	35	100	10
SLN08065		65		30					
SLN08085		80		45					
SLN10050	10	45	8	5	12	40	45	100	20
SLN10075		70		30					
SLN10100		95		55					
SLN10125		120		80					
SLN12060	12	60	10	15	14	45	50	100	35
SLN12075		70		20					
SLN12100		95		50		60			
SLN12125		120		65					
SLN16065	16	65	12	10	18	50	60	100	45
SLN16110		105		50		65			
SLN16150		150		90					
SLN20080	20	75	16	15	22	60	70	100	70
SLN20110		100		45					
SLN20150		140		85					

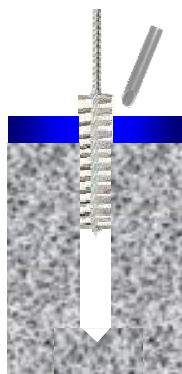
### Mechanical Properties

Outside Diameter	mm	8	10	12	16	20
Ultimate Tensile Strength	N/mm <sup>2</sup>	400	400	400	400	400
Yield Strength	N/mm <sup>2</sup>	280	280	280	280	280
Nut A/F	mm	10.0	13.0	17.0	19.0	24.0
Washer Diameter	mm	12.0	17.0	21.0	24.0	30.0

### Installation Instructions



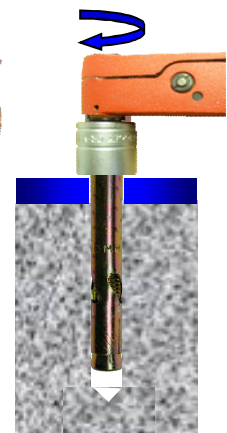
Position fixture and drill correct diameter hole to correct depth



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** (Loads are not applicable to anchors with reduced embedment depth)

Performance Data (C20/25 Concrete)									
Outside Diam	Characteristic Resistance		Design Resistance		Recommended Resistance ( $\gamma_F=1.4$ )		Design Spacing	Design Edge Distance	
mm	kN		kN		kN		mm	mm	
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear
8	6.6	4.0	3.6	3.1	2.5	2.2	55	45	40
10	10.2	8.3	5.6	5.5	4.0	3.9	100	70	60
12	12.6	12.7	6.9	8.4	5.0	6.0	115	80	85
16	15.0	15.2	8.3	10.1	5.9	7.2	130	90	100
20	17.7	17.8	9.8	11.8	7.0	8.4	200	100	115

Shear Loads towards a free edge are for single anchors where Spacing  $\geq 3 \times$  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](http://www.jcpfixings.co.uk)

**Influence of concrete strength** Not applicable with sleeve anchors

**Solid Brickwork** (Loads are not applicable to anchors with reduced embedment depth)

Performance Data (20 N/mm <sup>2</sup> )										
Outside Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance		Tightening Torque
mm	kN		kN		kN		mm	mm		Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
8	2.3	3.6	1.1	2.4	0.8	1.7	90	45	60	8
10	3.1	7.4	1.5	4.9	1.1	3.5	110	55	70	16
12	4.4	11.4	2.1	7.6	1.5	5.4				
16	6.3	13.6	3.0	9.0	2.2	6.4	Only 1 fixing per brick is recommended			
20	7.3	16.0	3.5	10.6	2.5	7.5				

**Solid Concrete Blocks** (Loads are not applicable to anchors with reduced embedment depth)

Performance Data (7 N/mm <sup>2</sup> )										
Outside Diameter	Characteristic Resistance		Design Resistance		Recommended Resistance		Recommended Spacing	Recommended Edge Distance		Tightening Torque
mm	kN		kN		kN		mm	mm		Nm
	Tensile	Shear	Tensile	Shear	Tensile	Shear	Tensile & Shear	Tensile	Shear	
8	1.5	2.1	0.7	1.4	0.5	1.0	90	45	60	6
10	2.3	4.4	1.1	2.9	0.8	2.0	110	55	70	12
12	2.9	6.7	1.4	4.4	1.0	3.1	120	60	80	20
16	4.0	8.0	1.9	5.3	1.4	3.7	140	70	95	30
20	5.6	9.4	2.6	6.2	1.9	4.4	150	75	100	40

Due to the variable nature of bricks and concrete blocks these figures are for guidance only