SLEEVE ANCHORS
Hex Head Range

ICCONS

Serious Connections

DATA SHEET
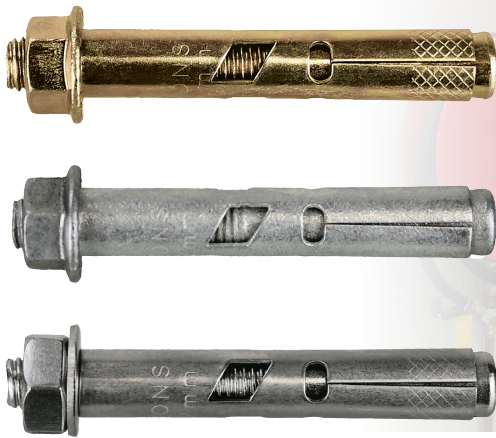
INTRODUCTION:

ICCONS® Sleeve Anchors are a medium duty pre-assembled torque setting expansion anchor consisting of a threaded plow bolt and a pressed carbon steel sleeve designed to expand when cone is tightened locking the sleeve against the wall of the hole. Features a collapsible design to assist clamp down of fixture. Suitable for concrete, solid brick & concrete block.
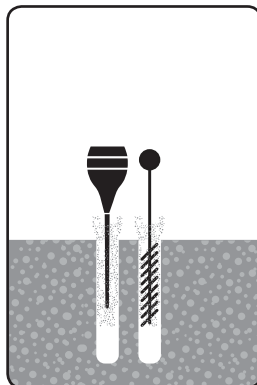
- Also available in 316 Stainless Steel
- Through fixing for fast installation
- Collapsible design to assist clamp down of fixture
- Suitable for concrete, solid brick & concrete block.
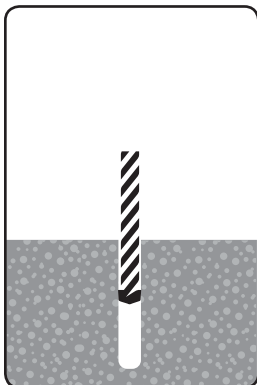
Installation
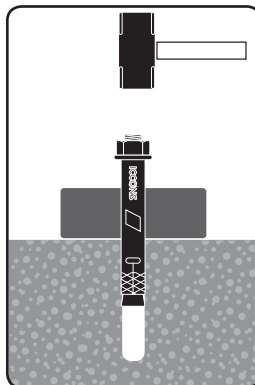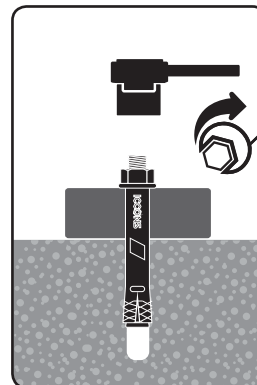

- With the correct diameter drill bit, drill a hole to the correct depth
- Clean dust and other material from the hole.
- Insert anchor into position.
- with correct size socket or spanner tighten anchor to specified torque
- Installation complete!

Suggested specification

ICCONS - Sleeve Anchor To be installed in accordance with ICCONS Technical data sheet.

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General Information				Drill Dia (mm)	Recommended. Anchor Depth (mm)	Recommended. Fixture Thickness (mm)	Installation Torque (Nm)	qty	qty
Zinc Yellow Part #	Galvanised Part #	316 SS Part #	Description						
SA06525	n/a	n/a	(M5) 6.5 x 25mm	6.5	20	5	2.5	100	1000
SA06535	n/a	SA06535SS	(M5) 6.5 x 35mm		30	5		100	1000
SA06555	n/a	SA06555SS	(M5) 6.5 x 55mm			25		100	1000
SA06575	n/a	SA06575SS	(M5) 6.5 x 75mm			40		100	1000
SA08040	SA08040G	SA08040SS	(M6) 8.0 x 40mm	8.0	35	5	5	100	1000
SA08065	SA08065G	SA08065SS	(M6) 8.0 x 65mm			30		50	500
SA08085	SA08085G	SA08085SS	(M6) 8.0 x 85mm			50		50	500
SA10040	SA10040G	SA10040SS	(M8) 10.0 x 40mm	10.0	34	6	10	50	500
SA10050	SA10050G	SA10050SS	(M8) 10.0 x 50mm		40	10		50	500
SA10060	SA10060G	SA10060SS	(M8) 10.0 x 60mm			20		50	500
SA10075	SA10075G	SA10075SS	(M8) 10.0 x 75mm			35		50	500
SA10095	SA10095G	SA10095SS	(M8) 10.0 x 95mm			55		50	400
SA10120	n/a	n/a	(M8) 10.0 x 120mm			80		50	300
SA12060	SA12060G	SA12060SS	(M10) 12.0 x 60mm	12.0	50	10	25	50	400
SA12075	SA12075G	SA12075SS	(M10) 12.0 x 75mm			25		25	250
SA12100	SA12100G	SA12100SS	(M10) 12.0 x 100mm			50		25	250
SA12130	SA12130G	n/a	(M10) 12.0 x 130mm			80		25	200
SA16065	SA16065G	n/a	(M12) 16.0 x 65mm	16.0	55	10	40	25	200
SA16110	n/a	n/a	(M12) 16.0 x 110mm			55		10	100
SA16145	n/a	n/a	(M12) 16.0 x 145mm			90		10	100
SA20075	n/a	n/a	(M16) 20.0 x 75mm	20.0	60	15	90	10	100
SA20100	n/a	n/a	(M16) 20.0 x 100mm			45		10	60
SA20150	n/a	n/a	(M16) 20.0 x 150mm			90		10	60

ICCONS Hex Head Sleeve Anchor - Performance in Concrete — Limit State Design

Zinc & Galvanised / **316 Stainless Steel**

Anchor Size (mm)	Drill Dia (mm)	Anchor Depth (mm)	TENSION Design Load Capacity (kN) in Concrete (ΦN_{Rk})			SHEAR Design Load Capacity (kN) in Concrete (ΦV_{Rk})			TENSION Design Load Capacity (kN) in Concrete (ΦN_{Rk})			SHEAR Design Load Capacity (kN) in Concrete (ΦV_{Rk})		
			20 MPa	32 MPa	40 MPa	20 MPa	32 MPa	40 MPa	20 MPa	32 MPa	40 MPa	20 MPa	32 MPa	40 MPa
6.5 (M5)	6.5	20	1.9	2.5	2.7	1.9	2.5	2.7	1.9	2.5	2.7	1.9	2.5	2.7
		30	3.7	3.7	3.7	4.0	4.5	4.5	3.7	3.7	3.7	4.0	4.0	4.0
8 (M6)	8	35	5.0	5.3	5.3	5.0	5.5	5.5	5.0	5.3	5.3	5.0	5.2	5.2
		50	5.3	5.3	5.3	5.5	5.5	5.5	5.3	5.3	5.3	5.2	5.2	5.2
10 (M8)	10	40	5.7	7.3	8.1	5.7	7.3	8.1	5.7	7.3	8.1	5.7	7.3	8.1
		60	8.4	8.4	8.4	10.3	10.3	10.3	8.4	8.4	8.4	9.5	9.5	9.5
12 (M10)	12	50	8.5	10.8	11.1	8.5	10.8	12.1	8.5	10.8	11.1	8.5	10.8	12.1
		70	11.1	11.1	11.1	15.8	15.8	15.8	11.1	11.1	11.1	13.9	13.9	13.9
16 (M12)	16	55	9.5	12.0	13.4	9.5	12.0	13.4						
		80	17.3	17.3	17.3	22.9	22.9	22.9						
20 (M16)	20	60	9.5	12.0	13.4	9.5	12.0	13.4						
		100	24.2	26.2	26.2	35.7	35.7	35.7						

Notes: The above information has been derived from laboratory test results and follows the EOTA TR029 design approach in combination with AS3600. Load capacities incorporate a safety factor of Φ=0.6 for concrete and Φ=0.8 for steel. All loads are representative of a single anchor installed in a hammer drilled, dry hole remote from an edge. Please contact ICCONS technical engineering department for specific design applications.

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