

# SCREWBOLT HEX HEAD MASONRY ANCHOR



TDS | MAR21

ZINC YELLOW Part No.	GALVANISED Part No.	Description	Drill Diameter (mm)	Embedment Depth (mm)	Max. fixture Thickness (mm)	Head Size A/F (mm)	Impact Tool Torque (Nm)	qtz	qtz
ESB10075	ESB10075G	10 x 75mm	10	50	25	17	250	50	250
ESB10100	ESB10100G	10 x 100mm			50			50	250
ESB12075	ESB12075G	12 x 75mm	12	60	15	19	600	50	150
ESB12100	ESB12100G	12 x 100mm			40			40	600

## RECOMMENDED LOADS

			N <sub>rec</sub>			V <sub>rec</sub>		
			TENSION			SHEAR		
			CONCRETE			CONCRETE		
Anchor Size (mm)	Drill Size (mm)	Embedment Depth (mm)	20MPa (kN)	32MPa (kN)	40MPa (kN)	20MPa (kN)	32MPa (kN)	40MPa (kN)
10	10	50	3.1	3.9	4.4	4.6	5.6	6.5
		75	4.6	5.8	6.4	7.3	8.9	10.7
12	12	60	4.9	6.2	6.9	8.9	10.0	11.1

**Note:** Published load capacities incorporate a safety factor of 3. The above information has been derived from laboratory test results using NATA calibrated equipment and all loads are representative of a single anchor installed in a hammer drilled, dry hole remote from an edge. Please contact ICCONS® engineering department for specific design applications, [engineering@iccons.com.au](mailto:engineering@iccons.com.au).

**Limit State Design** - Multiply the above loads by 1.8 (Concrete) to determine the Limit State Design capacities.

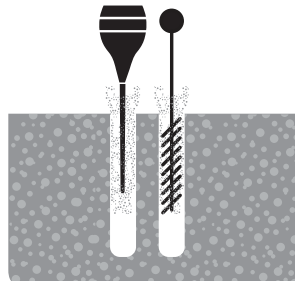
## MATERIAL SPECIFICATIONS

Anchor Part	Zinc Plated (Yellow)	Mechanically Galvanised
Anchor body	Heat Treated Carbon Steel	Heat Treated Carbon Steel
Plating	Electroplated Zinc Coating thickness 3 microns (min.)	Galvanised Coating thickness 25 microns (min.)

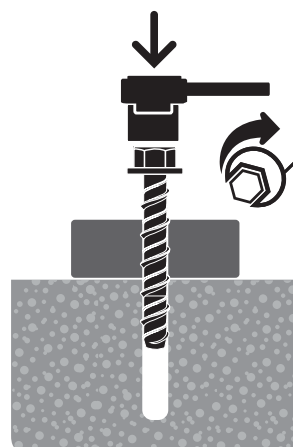
## INSTALLATION



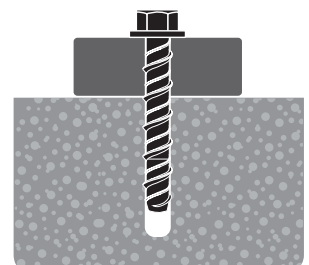
With the correct diameter drill bit, drill a hole to the depth of at least one diameter of the anchor deeper than the required embedment.



Clean dust and other material from the hole.



Install with either a socket or cordless impact driver. Apply pressure against the fixing and rotate to engage the first thread. Continue to tighten the anchor until flanged head is firmly seated against fixture.



Installation complete!

Information contained in this technical document is based on testing by the manufacturer and based on a simplified design method. Information should be reviewed and approved by a design professional responsible for the given application. For safety critical fastening solutions designed in accordance with AS5216, please refer to the ICCONS® website for a complete suite of compliant post-installed chemical and mechanical anchoring products.