



Strike anchor until flush

Pre-expanded bent section compresses against hole wall

CLASS 10.9

316A4

CLASS 10.9

CLASS 10.9

Carbon Steel  
Mechanically  
Galvanised

316 (A4)  
Stainless Steel

Carbon Steel  
Mechanically  
Galvanised

Carbon Steel  
Zinc Clear

Mushroom Head

Mushroom Head

Countersunk

Tie-Wire



GAL EXTERNAL

316 SS EXTERNAL

GAL EXTERNAL

ZINC INTERNAL



Part No.	Part No.	Part No.	Part No.	Description	mm	mm	mm	mm	qty	qty
STMH05025G	STMH05025SS			5 x 25mm	5	3			100	1000
STMH05032G	STMH05032SS			5 x 32mm		10			100	1000
STMH05038G	STMH05038SS			5 x 38mm		6			100	1000
STMH05050G	STMH05050SS			5 x 50mm		19			100	1000
		STCS05065G		5 x 65mm			33		100	1000
		STCS05075G		5 x 75mm			43		100	1000
		STCS05100G		5 x 100mm			68		100	1000
			STTW05 Tie-Wire	5.0 mm			5.5	100	1000	
STMH65025G				6.5 x 25mm	6.5	3			100	1000
STMH65038G	STMH65038SS	STCS65038G		6.5 x 38mm		6	6		100	1000
STMH65050G	STMH65050SS	STCS65050G		6.5 x 50mm		19	18		100	1000
STMH65063G				6.5 x 63mm		32			100	1000
		STCS65065G		6.5 x 65mm			33		100	1000
STMH65075G	STMH65075SS	STCS65075G		6.5 x 75mm		44	43		100	1000
STMH65100G		STCS65100G		6.5 x 100mm		68	68		100	600
			STTW65 Tie-Wire	6.5 mm			7	100	1000	
STMH10075G				10 x 75mm	10	32			25	250
STMH10100G				10 x 100mm		57			25	250
STMH10125G				10 x 125mm		82			25	250

ICCONS® Strike™ anchor is available in both Carbon Steel Class 10.9 and 316 (A4) Stainless Steel.

Suitable for solid base materials such as concrete, block (core filled), solid brick, or stone, this unique style anchor creates compressive forces against the wall of the hole as it is driven in, this is achieved by the proprietary pre-expanded bent at the working end. The anchor is set by striking with a hammer until flush with the fixture material.

The Mushroom Head & Countersunk Strike™ are the choice for applications that require ease of installation, simple clean aesthetic look or even for tamper proof applications. The Tie wire Strike™ is the ideal choice for suspension of electrical cabling catenary wire, suspended ceilings and signage.

Information contained in this technical document is based on testing by the manufacturer and should be reviewed and approved by a design professional responsible for the given application. For safety critical fastening applications designed in accordance with AS 5216, please refer to the Iccons website for a complete suite of compliant post-installed chemical and mechanical anchoring products.



## RECOMMENDED LOADS IN CONCRETE

Anchor Size (mm)	Drill Size (mm)	Hole Depth (mm)	Spacing (mm)	Edge Distance (mm)	N <sub>rec</sub> ZINC & GAL TENSION			V <sub>rec</sub> ZINC & GAL SHEAR			N <sub>rec</sub> 316 STAINLESS STEEL TENSION			V <sub>rec</sub> 316 STAINLESS STEEL SHEAR		
					25MPa (kN)	32MPa (kN)	40MPa (kN)	25MPa (kN)	32MPa (kN)	40MPa (kN)	25MPa (kN)	32MPa (kN)	40MPa (kN)	25MPa (kN)	32MPa (kN)	40MPa (kN)
5.0	5.0	22	50	60	1.0	1.1	1.1	1.6	1.7	1.7	0.9	1.1	1.1	1.5	1.6	1.6
		25			1.1	1.2	1.2	2.2	2.3	2.3	1.1	1.3	1.3	2.1	2.2	2.3
		32			1.3	1.6	1.8	2.9	3.2	3.3	1.3	1.6	1.8	2.8	3.0	3.1
6.5	6.5	22	65	78	1.1	1.2	1.3	2.7	2.9	3.0	1.1	1.2	1.2	2.6	2.8	2.9
		25			1.3	1.4	1.5	3.0	3.2	3.3	1.2	1.3	1.4	2.9	3.1	3.2
		32			1.6	2.1	2.2	3.3	3.7	4.0	1.6	1.9	2.1	3.2	3.4	3.6
10.0	10	45	100	120	3.4	3.9	4.4	8.3	8.9	9.1						

**Note:** The above has been derived from laboratory test results using NATA calibrated equipment. Load capacities incorporate a safety factor of 3 for concrete and are representative of a single anchor remote from an edge.

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

## RECOMMENDED LOADS IN SOLID BRICK

Solid Brick ≥ 10 MPa (Unconfined characteristic compressive strength)

Anchor Size (mm)	Drill Size (mm)	Hole Depth (mm)	Spacing (mm)	Edge Distance (mm)	N <sub>rec</sub> ZINC & GAL TENSION		V <sub>rec</sub> ZINC & GAL SHEAR		N <sub>rec</sub> 316 STAINLESS STEEL TENSION		V <sub>rec</sub> 316 STAINLESS STEEL SHEAR	
					Solid Brick ≥ 10MPa (kN)	Solid Brick ≥ 10MPa (kN)	Solid Brick ≥ 10MPa (kN)	Solid Brick ≥ 10MPa (kN)	Solid Brick ≥ 10MPa (kN)	Solid Brick ≥ 10MPa (kN)		
5.0	5.0	22	50	60	0.5	0.5	0.9	0.9	0.5	0.5	0.9	0.9
		25			0.5	0.5	1.0	1.0	0.5	0.5	1.0	1.0
		32			0.6	0.6	1.1	1.1	0.6	0.6	1.1	1.1
6.5	6.5	22	65	78	0.5	0.5	1.0	1.0	0.5	0.5	1.0	1.0
		25			0.6	0.6	1.2	1.2	0.6	0.6	1.2	1.2
		32			0.7	0.7	1.5	1.5	0.7	0.7	1.5	1.5

**Note:** The above load capacities are for mushroom and countersunk head styles only and incorporate a safety factor of 4. Loads represent single anchors tested remote from an edge, opening or unrestrained brick wall. As masonry may vary greatly, the above data should be used as guidance only and site tests are recommended where site specific performance is required. Brick strength is based on unconfined characteristic compressive strength.

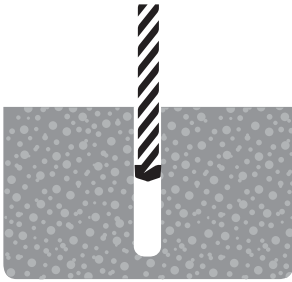
## MATERIAL SPECIFICATIONS



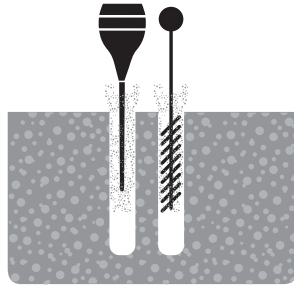
Anchor Part	Zinc Plated (Clear)	Mechanically Galvanised	Stainless Steel
Anchor body	Class 10.9	Class 10.9	316 (A4) Stainless steel
Plating	Electroplated Zinc Coating thickness 5 microns (min.)	Galvanised Coating thickness 45 microns (min.)	n/a



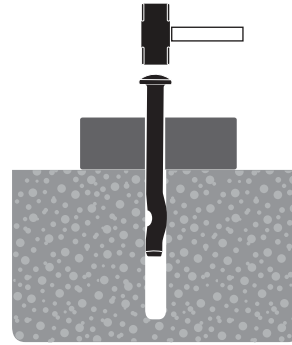
## INSTALLATION



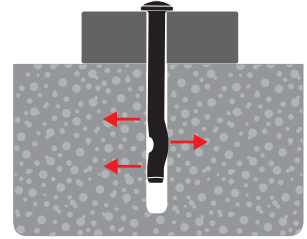
With the correct diameter drill bit, drill a hole to the correct depth.



Clean dust and other material from the hole.



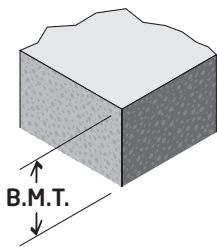
Tap in anchor until seated and flush with surface of fixture.



Installation complete!

### Base Material Thickness

Base material thickness should be  $1.5 \times h_{\text{embed}}$ , or a minimum of 75mm, always use the greater of the two values.



### Combined Tension & Shear Loading

For combined tension and shear load applications the following equations shall be satisfied;

$$N_{\text{applied}} / N_{\text{rec}} \leq 1 \quad V_{\text{applied}} / V_{\text{rec}} \leq 1 \quad (N_{\text{applied}} / N_{\text{rec}}) + (V_{\text{applied}} / V_{\text{rec}}) \leq 1.2$$

Where:

- $N_{\text{applied}}$  = Applied Tension Load
- $N_{\text{rec}}$  = Recommended Tension Load
- $V_{\text{applied}}$  = Applied Shear Load
- $V_{\text{rec}}$  = Recommended Shear Load