# STRIKE™

## ALL METAL ANCHOR

ICCONS® Serious Connections®

TDS | 1006.3


| CLASS 10.9 | 316 A4 | 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

**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 bend 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.

| Part No. | Part No. | Part No. | Part No. | Description | ø mm | mm | mm | mm | qty | qty |
|---|---|---|---|---|---|---|---|---|---|---|
| **STMH05025G** | **STMH05025SS** | | | 5 x 25mm | 5 | 3 | | | 100 | 2500 |
| **STMH05032G** | **STMH05032SS** | | | 5 x 32mm | | 10 | | | 100 | 2500 |
| **STMH05038G** | **STMH05038SS** | | | 5 x 38mm | | 6 | | | 100 | 2500 |
| **STMH05050G** | **STMH05050SS** | | | 5 x 50mm | | 19 | | | 100 | 1600 |
| | | **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 | 2000 |
| **STMH65038G** | **STMH65038SS** | **STCS65038G** | | 6.5 x 38mm | | 6 | 6 | | 100 | 1600 |
| **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 | 400 |
| **STMH10100G** | | | | 10 x 100mm | | 57 | | | 25 | 300 |

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 SA TS 101:2015, 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) | $N_{rec}$ ZINC & GAL TENSION 25MPa (kN) | $N_{rec}$ ZINC & GAL TENSION 32MPa (kN) | $N_{rec}$ ZINC & GAL TENSION 40MPa (kN) | $V_{rec}$ ZINC & GAL SHEAR 25MPa (kN) | $V_{rec}$ ZINC & GAL SHEAR 32MPa (kN) | $V_{rec}$ ZINC & GAL SHEAR 40MPa (kN) | $N_{rec}$ 316 STAINLESS STEEL TENSION 25MPa (kN) | $N_{rec}$ 316 STAINLESS STEEL TENSION 32MPa (kN) | $N_{rec}$ 316 STAINLESS STEEL TENSION 40MPa (kN) | $V_{rec}$ 316 STAINLESS STEEL SHEAR 25MPa (kN) | $V_{rec}$ 316 STAINLESS STEEL SHEAR 32MPa (kN) | $V_{rec}$ 316 STAINLESS STEEL SHEAR 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) | $N_{rec}$ ZINC & GAL TENSION Solid Brick ≥ 10MPa (kN) | $V_{rec}$ ZINC & GAL SHEAR Solid Brick ≥ 10MPa (kN) | $N_{rec}$ 316 STAINLESS STEEL TENSION Solid Brick ≥ 10MPa (kN) | $V_{rec}$ 316 STAINLESS STEEL SHEAR Solid Brick ≥ 10MPa (kN) |
|---|---|---|---|---|---|---|---|---|
| 5.0 | 5.0 | 22 | 50 | 60 | 0.5 | 0.9 | 0.5 | 0.9 |
| | | 25 | | | 0.5 | 1.0 | 0.5 | 1.0 |
| | | 32 | | | 0.6 | 1.1 | 0.6 | 1.1 |
| 6.5 | 6.5 | 22 | 65 | 78 | 0.5 | 1.0 | 0.5 | 1.0 |
| | | 25 | | | 0.6 | 1.2 | 0.6 | 1.2 |
| | | 32 | | | 0.7 | 1.5 | 0.7 | 1.5 |

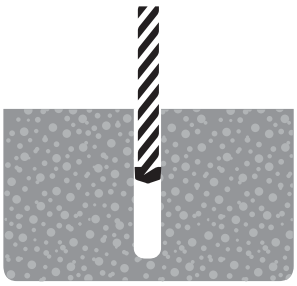
**Note:** The above load capacities are for mushroom and countersunk head styles only and incorporate a safety factor of 4. Loads represent single anchors tested remote from an edge, opening or unrestrained brick wall. As masonry may vary greatly, the above data should be used as guidance only and site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

## MATERIAL SPECIFICATIONS



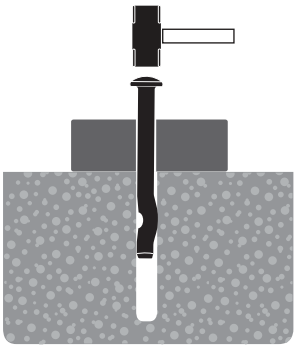
| Anchor Part | Zinc Plated (Clear) | Mechanically Galvanised | Stainless Steel |
|---|---|---|---|
| Anchor body | Class 10.9 | Class 10.9 | 316 (A4) Stainless steel |
| Plating | Electroplated Zinc Coating thickness 5 microns (min.) | Galvanised Coating thickness 45 microns (min.) | n/a |

## INSTALLATION

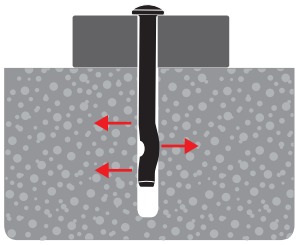


With the correct diameter drill bit, drill a hole to the correct depth.

Clean dust and other material from the hole.



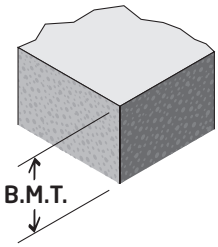
Tap in anchor until seated and flush with surface of fixture.



Installation complete!

## Base Material Thickness

Base material thickness should be 1.5 x $h_{embed.}$ 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;

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

*Where:*

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