

Building Product Information Sheet

Class 1

Product Name:

Strike Anchor - Mushroom Head

Date of Report:

14 / 09 / 2023

Product Line:

ICCONS Strike Anchor

Product Description and its intended use:

Mushroom Head Strike Anchors (aka the proprietary name Spike Anchor) is a single piece, tamper-proof, hammer in anchor for use in solid base materials such as concrete, brick, block, stone and other masonry. The S shaped kink in the Strike Anchor generates expansion forces once the anchor has been hammered into the pre-drilled hole. This anchor is a fast and economical way to fix steel brackets and timber structures to solid base materials. Strike Anchors are manufactured pre-expanded and simply require setting with a hammer, without the need for secondary tightening for installation, making it a common choice for fast installation applications.

Key technical specifications:

- Product type: Strike Anchor
- Finish options: Galvanised, Stainless Steel
- Head Type: Mushroom Head
- Material: Class 10.9 Carbon Steel (Galvanised) or 316 A4 Stainless Steel
- Dimensions, drill depth and other details vary per size. Refer to document 'Strike Anchor Technical Data' for specific values per part, available in the link below:

https://sestofasteners.co.nz/products/strike-anchor-mushroom-head?_pos=1&_sid=6bfd7cf57&_ss=r

Product Identifier

Strike Anchor - Mushroom Head

Place of Manufacture:

Overseas

Manufacturer:

ICCONS PTY LTD

Importer:

Sesto Fasteners Limited

Address: 5e Piermark Drive
Rosedale, Auckland
Postcode: 0632
Website: www.sestofasteners.co.nz
Email: orders@sestofasteners.co.nz
Phone: +64 94158564
NZBN: 9429041704103

Relevant Building Code Clauses:

- B1 Structure: Performance clauses B1.1
- B2 Durability: Performance clauses B2.2
- F2 Hazardous Building Materials: Performance clause F2.3.1

Statement on how the building product is expected to contribute to compliance:

- B1 Structure: Performance clause B1.1
 - Suitable for solid base materials such as concrete, brick, block, stone and other masonry. The S shaped kink in the Strike Anchor generates expansion forces once the anchor has been hammered into the pre-drilled hole. This anchor is a fast and economical way to fix steel brackets and timber structures to solid base materials, and the special formwork head allows the anchor to be removed for temporary fixtures. Strike Anchors are manufactured pre-expanded and simply require setting with a hammer, without the need for secondary tightening for installation, making it a common choice for fast installation applications.
 - ICCONS Strike Anchors have been laboratory tested for recommended loads in concrete and solid brick. The values for recommended loads in solid brick are for mushroom and countersunk head styles only and incorporate a safety value of 4. Tension and shear values, design load capacity, spacing and edge distance varies based on anchor finish and size, refer to document 'ICCONS Strike Anchor Catalogue' and 'Strike Anchor Technical Data' available in the link below for testing data per part:
https://sestofasteners.co.nz/products/strike-anchor-form-work?_pos=3&_sid=9a307ccb1&_ss=r
- B2 Durability: Performance clauses
 - ICCONS Mushroom Head Strike Anchors with the galvanised finish have a class 10.9 Carbon Steel body. Plating is a mechanically galvanised coating, thickness 45 microns (minimum).
 - ICCONS Mushroom Head Strike Anchors with the stainless steel finish have a 316 (A4) Stainless steel body.
- F2 Hazardous Building Materials: Performance clause F2.3.1
 - ICCONS Strike Anchors are safe when handled.

Limitations on the use of the building product:

- Drill diameter, minimum anchor embedment and maximum fixture thickness varies based on part. Refer to document 'Strike Anchor Technical Data' (page 2), available in the link below:
https://sestofasteners.co.nz/products/strike-anchor-form-work?_pos=3&_sid=9a307ccb1&_ss=r
- ICCONS Strike Anchors have been laboratory tested for recommended loads in concrete and solid brick. The values for recommended loads in solid brick are for mushroom and countersunk head styles only and incorporate a safety value of 4. Tension and shear values, design load capacity, spacing and edge distance varies based on anchor finish and size, refer to document 'ICCONS Strike Anchor Catalogue' and 'Strike Anchor Technical Data' available in the link below for testing data per part:
https://sestofasteners.co.nz/products/strike-anchor-form-work?_pos=3&_sid=9a307ccb1&_ss=r
- Recommended loads in concrete data 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.
- 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.
- Base material thickness should be 1.5 x embed. or a minimum of 75mm, always use the greater of the two values.

Design requirements that would support the use of the building product:

- ICCONS Mushroom head strike anchors have been designed for use in the following applications:
 - Fixing steel brackets and timber structures to solid base materials
 - Tamper sensitive applications
 - Cable tray and strut fixing
 - Concrete formwork
 - Fast installation applications
 - Concrete, brick, block, stone and other masonry base materials
- Features that support use:
 - Available in mechanically galvanised carbon steel and 316 stainless steel variants
 - Tamper-proof
 - Pre-expanded design
 - Simple hammer-in installation
 - Time efficient installation

Refer to document 'ICCONS Strike Anchor Catalogue' available in the link below for full design specifications:
https://sestofasteners.co.nz/products/strike-anchor-mushroom-head?_pos=1&_sid=6bfd7cf57&_ss=r

Installation requirements:

Refer to documents 'ICCONS Strike Anchor Catalogue' and 'Strike Anchor Technical Data' for installation requirements and limit state design data, available in the link below.

https://sestofasteners.co.nz/products/strike-anchor-mushroom-head?_pos=1&_sid=6bfd7cf57&_ss=r

Installation steps:

1. With the correct diameter drill bit, drill a hole to the correct depth.
2. Clean dust and other material from the hole.
3. Tap in anchor until seated and flush with surface of fixture.
4. Installation complete!
 - Training, expertise and good judgment is required. Always adhere to anchor installation max. impact torque tool settings.
 - Use the correct diameter drill bit.
 - DO NOT use a worn drill bit outside tolerance specification.
 - Ensure the hole is drilled perpendicular to the concrete, with a maximum deviation up to 5 degrees. Failure to do so may cause anchor breakage.
 - Clean dust and other materials from the hole. Use ICCONS Blow Pump for a perfect result.

Maintenance requirements:

N/A, no on-going maintenance required.

Is the building product subject to warning or ban under section 26?:

No

