

# Building Product Information Sheet

## Class 1

**Product Name:**

XTM Drop-In Anchors (Lipped) - Approved

**Date of Report:**

31 / 10 / 2023

**Product Line:**

ICCONS Drop-In Anchor

**Product Description and its intended use:**

XTM Approved lipped drop-in anchors are a single piece internally threaded expansion anchor suitable for solid base material available in carbon steel zinc plated. The anchor is set by displacement of the pre-assembled expander cone to enable full expansion of the anchor body. Designed for use in solid concrete and hollow core concrete where existing reinforcement prohibits deep embedment installation. The lip feature ensures the anchor will mount flush with the concrete surface for consistency.

\*User must ensure the correct size of setting tool is used in conjunction with the correct size drop-in anchor. The internal thread is suitable for machined bolts or threaded rod.

**Key technical specifications:**

- Product type: Drop-in anchor
- Anchor Material: Zinc
- Head options: Flush Head
- Thread options: Internal thread
- Base material: Concrete, cracked concrete.
- Special features: European Assessment ETA, Fire Rated, National Code Compliant (NCC).
- Load performance: Medium and Light duty loads
- Material specifications: Internal thread size, embedment depth and other values vary based on part. Refer to document 'Drop in Technical Information' for specific values per part:

[https://sestofasteners.co.nz/products/drop-in-anchor-non-lipped?\\_pos=1&\\_sid=ef7fae4ea&\\_ss=r](https://sestofasteners.co.nz/products/drop-in-anchor-non-lipped?_pos=1&_sid=ef7fae4ea&_ss=r)

**Product Identifier**

DLXTM Drop In Anchors

**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](http://www.sestofasteners.co.nz)

Email: [orders@sestofasteners.co.nz](mailto:orders@sestofasteners.co.nz)

Phone: +64 94158564

NZBN: 9429041704103

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## Relevant Building Code Clauses:

- B1 Structure: Performance clauses B1.1, B1.2, B1.3.1, B1.3.2, B1.3.3, B1.3.4
- B2 Durability: Performance clauses B2.2
- C6 Structural Stability (Fire Safety): Performance clauses C6.1, C6.2
- F2 Hazardous Building Materials: Performance clause F2.3.1
- H1 Energy Efficiency: Objective clause H1.1

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

- B1 Structure: clauses B1.1, B1.2, B1.3.1, B1.3.2, B1.3.3, B1.3.4:
    - XTM Approved lipped drop-in anchors are a single piece internally threaded expansion anchor suitable for solid base material available in carbon steel zinc plated. The anchor is set by displacement of the pre-assembled expander cone to enable full expansion of the anchor body. Designed for use in solid concrete and hollow core concrete where existing reinforcement prohibits deep embedment installation. The lip feature ensures the anchor will mount flush with the concrete surface for consistency.
    - \*User must ensure the correct size of setting tool is used in conjunction with the correct size drop-in anchor. The internal thread is suitable for machined bolts or threaded rod.
    - ICCONS XTM Drop In Anchors have been ETA approved for use in cracked and uncracked concrete: multiple use in non-structural applications (RNSS) and Option 7: Uncracked Concrete. ETA documents available depends on part number and finish. Refer to the documents below for assessment information, available through this link:  
<https://sestofasteners.co.nz/products/xtm-drop-in-anchors-lipped-approved?variant=43247895838889>
    - European Technical Assessment (ETA) 21/0891, of 13/12/2021. Relevant to DLXTM-S Drop In Anchors sizes M8, M10 and M12.
    - European Technical Assessment (ETA) 19/0662, of 04/11/2019. Relevant to DXTM, DXTMX12, DLXTM and DXTM-SS.
    - European Technical Assessment (ETA) 20/0718, of 26/08/2020. Relevant to DXTM, DXTMX12, DLXTM and DXTM-SS.
    - Compliant with requirements referenced in the National Construction Code (NCC).
    - Compliant with Australian standard AS 5216:2018 (Design of post-installed and cast-in fastenings in concrete).
    - Cracked concrete approved: multiple use non-structural systems.
    - DLXTM Lip Drop In Anchor: performance data is available for cracked concrete (RNSS: Redundant Non-Structural Systems, EAD 330747-00-0601 Part 6) and non-cracked concrete (ETA Option 7, AS 5216:2018 compliant). Refer to document '1030.4 - XTM Drop-In Anchor TDS', available in the link above.
    - DLXTM-S Drop In Anchor: performance data is available for use in cracked and uncracked concrete. Refer to document '1042.2 - DLXTM-S Drop-In Anchor TDS', available in the link above.
  - B2 Durability: Performance clauses B2.2
    - DLXTM Lip Drop In Anchor material specifications: Body: C1008 cold forming Steel, Cone C1008 cold forming Steel, Thread: Metric, Plating: Clear Zinc (min 5 microns). Refer to document '1030.4 - XTM Drop-In Anchor TDS'.
    - DLXTM-S Drop In Anchor material specifications: Body: Carbon Steel, Zinc Plated  $\geq 5 \mu\text{m}$  ISO 4042. Expansion Cone, Carbon Steel, Zinc Plated  $\geq 5 \mu\text{m}$  ISO 4042. Retaining disc: paper or plastic. Refer to document '1042.2 - DLXTM-S Drop-In Anchor TDS'.
    - DLXTM: due to its small dimensions it is suitable to use in thin concrete members.
    - Internal metric thread allows the use of standard metric screws and threaded rods.
    - The collar prevents the anchor sleeve from slipping into the drill hole.
    - Lip ensures flush setting regardless of hole depth.
    - DLXTM-S: suitable for use in concrete C20/25 to C50/60 and for use in precast prestressed hollow core slabs with flange thickness  $\geq 35\text{mm}$  and concrete C30/37 to C50/60. Refer to document '1042.2 - DLXTM-S Drop-In Anchor TDS' for full material specifications.
  - C6 Structural Stability (Fire Safety): Performance clauses C6.1, C6.2
    - ICCONS XTM Lip Drop In Anchors have been ETA assessed for fire performance.
    - Refer to ETA 21/0891 for fire performance data relevant to DLXTM-S anchors.
    - Refer to ETA 19/0662 for fire performance data relevant to DXTM, DXTMX12, DLXTM and DXTM-SS anchors.
    - Refer to ETA 20/0718 for fire performance data relevant to DXTM, DXTMX12, DLXTM and DXTM-SS anchors.Available in the link below:  
<https://sestofasteners.co.nz/products/xtm-drop-in-anchors-lipped-approved?variant=43247895838889>
  - F2 Hazardous Building Materials: Performance clause F2.3.1
    - ICCONS XTM Approved drop in anchors are safe when handled.
  - H1 Energy Efficiency: Objective clause H1.1
    - XTM Lip Drop-In Anchors are plated through the Cr3 galvanising process. This is a much more environmentally friendly process than traditional galvanisation through the use of hexavalent chromium, which is highly toxic to humans and can cause heavy metal pollution in soil.
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## Limitations on the use of the building product:

- The anchor must be set with the correct ICCONS setting tool. See product guide for full selection.
- Excessive torque during installation may damage the anchor. Always adhere to anchor installation torque guidelines.
- For threaded rod installations, take care not to over tighten the rod.
- The appropriate Lip Drop-in Setting Tool varies based on anchor size. The Drop-in is installed correctly if the setting tool pin is completely inside the anchor. Refer to product guide or see page 11, document 'Building Services Document 2020' available in the link below:  
<https://sestofasteners.co.nz/products/xtm-drop-in-anchors-lipped-approved?variant=43247895838889>

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

- ICCONS XTM Drop-In Anchors (Lipped) - Approved have been designed for use in the following applications:
- Suspension systems, piped, air ducts, sprinkler systems, and other metric thread applications.

### Features that support use of the product:

- ETA Approved for use in Cracked Concrete.
- National Code Compliant (NCC).
- Fire Rated.
- Lip ensures flush setting regardless of hole depth.
- Enables the user to invisibly fix the partially countersunk anchors when dealing with temporary fixings.
- Suitable for cracked and non-cracked concrete as well as base materials with sufficiently high compression characteristics.
- Metric internal thread, suitable for bolts and threaded rods.

## Installation requirements:

### ICCONS Drop In Anchor 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. Push in Drop-in by hand or by hammer blows, anchor should be flush to concrete surface.
  4. Set the Drop-in with setting tool. The Drop-in is installed correctly if the setting tool pin is completely inside the anchor.
  5. Place fixture in position and insert machined bolt and tighten until firm (do not exceed recommended torque).
  6. For threaded rod installations wind in rod until firm, do not over tighten.
- Use of Lip Drop-in Setting Tool is necessary for the correct installation of Drop-in Anchors (part number reference DLST). Refer to page 2, document 'Drop in Technical Information' for illustrative installation guidelines, available in the link below:  
<https://sestofasteners.co.nz/products/drop-in-anchor-lipped?variant=37601632845993>

## Maintenance requirements:

N/A. no ongoing maintenance required.

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

No

