

# Building Product Information Sheet

## Class 1

**Product Name:**

Drop-In Anchors (Lipped and Reduced Embedment) - Approved

**Date of Report:**

01 / 11 / 2023

**Product Line:**

Drop-In Anchors

**Product Description and its intended use:**

ICCONS 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. \*User must ensure the correct size of setting tool is used in conjunction with the correct size drop-in anchor. The lip feature ensures the anchor will mount flush with the concrete surface for consistency. 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: Refer to document 'Building Services Document 2020' available in the link below:

[https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?\\_pos=1&\\_sid=05cf52916&\\_ss=r](https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?_pos=1&_sid=05cf52916&_ss=r)

**Product Identifier**

Apolo SA Plus Lip Drop-In Anchor

**Place of Manufacture:**

Overseas

**Manufacturer:**

Apolo MEA Fastening Systems GmbH

**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

## 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:
  - ICCONS 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. \*User must ensure the correct size of setting tool is used in conjunction with the correct size drop-in anchor. The lip feature ensures the anchor will mount flush with the concrete surface for consistency. The internal thread is suitable for machined bolts or threaded rod.
  - SA Plus Lip Drop In Anchors have been ETA approved for use in cracked and uncracked concrete: ETA 13/0371. Refer to document 'Apolo MEA Drop-In Anchor European Technical Assessment Approval' available in the link below:  
[https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?\\_pos=1&\\_sid=05cf52916&\\_ss=r](https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?_pos=1&_sid=05cf52916&_ss=r)
  - European Technical Assessment (ETA) 13/0371, of 2 October 2018. Relevant to Apolo MEA Drop-In Anchor SA Plus.
  - Compliant with requirements referenced in the National Construction Code (NCC).
- B2 Durability: Performance clauses B2.2
  - SA Plus Lip Drop-In Anchor material specifications: Body: Steel C1015 or EN 10277:2008. Expansion Cone: Steel C1006-C1008. Retaining Disc: Paper or plastic. Refer to document 'Drop-In Apolo Approved TDS'
  - 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.
  - SA Plus: suitable for use in concrete C20/25 to C50/60 and for use in precast prestressed hollow core slabs ( $w/e \leq 4.2$ ) with flange thickness  $\geq 35$ mm and concrete C45/55 to C50/60. Refer to document 'Drop-In Apolo Approved TDS' for full material specifications.
  - Design data in accordance with AS 5216:2018 is available. Refer to page 4, document 'Drop-In Apolo Approved TDS'.
- 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 13/0371 for fire performance data relevant to Apolo MEA Drop-In anchors.
  - Refer to page 4, document 'Drop-In Apolo Approved TDS' for characteristic values of resistance under fire exposure in any direction for use in concrete C20/25 to C50/60.Available in the link below:  
[https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?\\_pos=1&\\_sid=05cf52916&\\_ss=r](https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?_pos=1&_sid=05cf52916&_ss=r)
- F2 Hazardous Building Materials: Performance clause F2.3.1
  - SA Plus Lip Drop in anchors are safe when handled.

## Limitations on the use of the building product:

- The anchor must be set with the correct ICCONS or SDS-Plus 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 2, document 'Drop-In Apolo Approved TDS' available in the link below:  
[https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?\\_pos=1&\\_sid=05cf52916&\\_ss=r](https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?_pos=1&_sid=05cf52916&_ss=r)
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## 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.
- Can be installed with ICCONS lipped drop-in anchor setting tool or SDS-Plus setting tool kit.

## 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 Apollo Approved TDS' for illustrative installation guidelines, available in the link below:  
[https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?\\_pos=1&\\_sid=05cf52916&\\_ss=r](https://sestofasteners.co.nz/products/drop-in-anchors-lipped-and-reduced-embedment-approved?_pos=1&_sid=05cf52916&_ss=r)

## Maintenance requirements:

N/A. no ongoing maintenance required.

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

No

