

LEAF EXPANSION ANCHOR

◆ Short Description (Beside Product Image)

Leaf expansion anchor designed for secure anchoring in masonry, brick, and concrete substrates. The anchor expands within the drilled hole when tightened, creating strong mechanical grip for reliable fastening in construction, infrastructure, and industrial installations.

◆ Product Overview

Leaf expansion anchors are mechanical fastening devices used to anchor threaded components such as bolts or threaded rods into solid base materials including concrete, brick, and stone. The anchor body contains expansion leaves that expand outward when the internal screw or bolt is tightened, creating friction and mechanical interlock with the surrounding material.

Canco Fasteners manufactures leaf expansion anchors using controlled machining and forming processes to ensure consistent expansion performance and dimensional accuracy. The product is suitable for OEM supply, distributor programmes, and bulk export shipments.

◆ Quick Specifications

Material Options

- Carbon Steel
- Stainless Steel (AISI 304)
- Stainless Steel (AISI 316)
- Other grades subject to customer specification

Surface Finish Options

- Electro-Galvanised (Zinc Plated)
- Hot-Dip Galvanised
- Plain / Self-colour
- Passivated (for stainless steel)
- Special coatings subject to specification

Size Range

Available in multiple diameters and lengths to suit different anchoring requirements. Typical sizes range from light-duty fixing applications to heavy-duty structural fastening.

Custom dimensions available subject to drawing approval.

Standards

- Manufactured to industry-accepted anchoring practices or customer specifications.
- Dimensional compliance based on approved drawings.
- Inspection and certification available upon request.

Customisation Availability

- Custom dimensions
- Material grade changes
- Special surface treatments
- Private-label packaging
- Bulk export configurations

Technical Specification Sheet

Leaf Expansion Anchor – Technical Data

Product Description

Mechanical expansion anchor designed for installation into drilled holes in masonry or concrete substrates. Expansion leaves deploy when the anchor is tightened, creating secure mechanical anchorage.

Components

- Anchor body with expansion leaves
- Threaded internal section or stud interface
- Expansion cone or actuator section (where applicable)

Manufacturing Process

- Cold forming or precision machining
- Thread rolling or thread machining
- Controlled expansion slot forming
- Surface finishing and coating

Material Grades

- Mild / Carbon Steel
- Stainless Steel 304
- Stainless Steel 316
- Other materials as specified

Surface Finishes

- Zinc plated
- Hot-dip galvanised
- Passivated stainless steel
- Custom finish upon request

Dimensional Control

Manufactured to specified dimensional tolerances in accordance with approved customer drawings and internal quality control procedures.

Testing & Inspection

- Dimensional inspection
- Thread verification
- Expansion function verification
- Visual surface inspection
- Material certification (EN 10204 3.1 available upon request)

Typical Applications

- Concrete anchoring systems
- Structural and façade fixing
- Industrial equipment installation
- Construction and infrastructure projects

Installation Note

Correct installation requires drilling an appropriate diameter hole, inserting the anchor fully into the substrate, and tightening the threaded component to activate the expansion mechanism. Load capacity depends on substrate condition and installation quality.

Export & Packaging

- Loose cartons
- Palletised loads
- Private-label cartons
- Bulk export quantities

Canco Fasteners manufactures leaf expansion anchors to approved drawings and customer specifications. Products are available for OEM programmes, distributor supply, and containerised export shipments.