CONFAST SAFP386

CONFAST 3/8" x 6" Flat Sleeve Anchor Instruction Manual

Model: SAFP386
Brand: CONFAST

1. Product Overview

The CONFAST 3/8" x 6" Flat Sleeve Anchor is a versatile fastening solution designed for secure installation in various masonry materials, including concrete, block, and brick. Constructed from zinc-plated carbon steel, this anchor provides reliable holding values through its 360-degree expansion mechanism. It comes pre-assembled for immediate use, eliminating the need for separate parts.



Image 1.1: Overview of the CONFAST Flat Sleeve Anchor, showing its full length and design.

2. Key Features

- **Versatile Application:** Suitable for installation in solid concrete, brick, and block.
- **360-Degree Expansion:** Ensures consistent and strong holding values across various base materials.
- **Pre-Assembled:** Ready for immediate installation without the need for additional components.
- **All Steel Parts:** Constructed from heavy-duty carbon steel with zinc plating for durability.
- **Flat Countersunk Head:** Designed to sit flush with the surface of the attached item, preventing protrusion.

- **Simple Sizing:** The anchor size directly corresponds to the required hole size for straightforward installation.

3. Applications

This anchor is specifically designed for use in dry environments and is ideal for securing fixtures to:

- Concrete
- Block
- Brick

The flat countersunk head ensures a neat finish, making it suitable for applications where the fastener head should not protrude above the surface of the attached material.

4. Installation Guide

Proper installation is critical for the performance and safety of the CONFAST Flat Sleeve Anchor. Follow these steps carefully:

4.1 Required Tools

- Hammer drill
- Carbide-tipped drill bit (meeting ANSI standards)
- Wrench or screwdriver (appropriate for the anchor head)
- Measuring tape
- Safety glasses and gloves

4.2 Drilling the Hole

The anchor requires a 3/8" diameter hole to be drilled into the base material (concrete, block, or brick). Use a carbide-tipped bit that meets ANSI standards with a hammer drill for optimal results.

- **Hole Diameter:** 3/8 inch
- **Hole Depth:** The hole must be drilled to a depth that allows for the minimum embedment of 1-1/4 inches, plus the thickness of the fixture. For a 6-inch anchor, ensure sufficient depth for the anchor to fully seat.



Image 4.1: Close-up view of the flat countersunk head, designed for flush mounting.

4.3 Fixture Preparation

The hole in the fixture or material being fastened must be larger than the designated diameter of the anchor to allow the anchor to pass through freely before expanding. For this 3/8" diameter anchor, the hole in the fixture should be 1/2 inch.

- **Fixture Hole Diameter:** 1/2 inch
- **Maximum Fixture Thickness:** The maximum thickness of the material being fastened is 4-3/4 inches. This ensures that the minimum embedment of 1-1/4 inches into the base material is achieved.

4.4 Anchor Placement and Tightening

Insert the anchor through the fixture and into the pre-drilled hole in the base material. Ensure that a minimum of 1-1/4 inches of the anchor is embedded into the concrete, block, or brick. Tighten the anchor using an appropriate wrench or screwdriver until it is secure. The anchor expands within the hole to create a strong hold.



Image 4.2: Top-down view of the anchor head, illustrating the drive type for tightening.

4.5 Spacing and Edge Distance

To maintain structural integrity and ensure optimal performance, adhere to the following spacing guidelines:

- **Minimum Spacing Between Anchors:** Each anchor must be spaced a minimum distance of 3-3/4 inches from each other, measured center to center.
- **Minimum Edge Distance:** It is crucial not to install the anchor any closer than 1-7/8 inches from an unsupported edge of the concrete or masonry material.

5. Operating Principles

The CONFAST Flat Sleeve Anchor operates on an expansion principle. As the screw is tightened, the conical nut at the end of the anchor is pulled into the sleeve, causing the sleeve to expand outwards against the walls of the drilled hole. This expansion creates a secure, friction-based connection within the base material. The 360-degree expansion ensures even pressure distribution and consistent holding power.

6. Maintenance

Once properly installed, CONFAST Flat Sleeve Anchors require minimal maintenance. Periodically inspect the fastened item and the surrounding area for any signs of loosening or damage. If any issues are observed, re-tighten the anchor if possible, or consider replacing it if damage is significant. Ensure the environment remains dry to prevent corrosion of the zinc plating over extended periods.

7. Troubleshooting

7.1 Anchor Spins During Tightening

If the anchor spins freely when attempting to tighten, it indicates that the anchor is not gripping the hole adequately. This can be caused by:

- **Oversized Hole:** The drilled hole may be too large. Ensure the hole diameter is precisely 3/8 inch.
- **Improper Drilling:** The hole may be irregular or damaged.
- **Weak Base Material:** The concrete, block, or brick may be compromised or too soft in that specific area.

Solution: Remove the anchor. If the hole is oversized, you may need to drill a new hole in a different location, ensuring correct drill bit size and proper drilling technique. If the base material is weak, consider using a different type of anchor suitable for softer materials, or reinforce the area if possible.

7.2 Anchor Does Not Achieve Full Embedment

If the anchor cannot be fully inserted to achieve the minimum embedment:

- **Insufficient Hole Depth:** The drilled hole may not be deep enough.
- **Debris in Hole:** The hole may contain dust or debris from drilling.

Solution: Remove the anchor and clear the hole of any debris. If the hole is not deep enough, extend the depth using the hammer drill and appropriate bit, ensuring it exceeds the minimum embedment requirement plus fixture thickness.

8. Specifications

Attribute	Value
Model Number	SAFP386
Anchor Diameter	3/8 inch
Anchor Length	6 inches
Material	Carbon Steel, Zinc Plated
Head Style	Flat Countersunk
Required Hole Diameter	3/8 inch
Minimum Embedment	1-1/4 inches
Maximum Fixture Thickness	4-3/4 inches
Fixture Hole Diameter	1/2 inch
Minimum Spacing (Center to Center)	3-3/4 inches
Minimum Edge Distance	1-7/8 inches

Environment	Dry

9. Warranty and Support

For specific warranty information regarding your CONFAST Flat Sleeve Anchors, please refer to the product packaging or contact CONFAST directly. As a small business brand, CONFAST is committed to providing quality products.
For technical support, installation queries, or any other assistance, please visit the official CONFAST website or contact their customer service department. Always ensure you are using the correct anchor for your specific application and follow all local building codes and safety regulations.
You can find more information and contact details by visiting theCONFAST Store on Amazon.

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