CONFAST 1-1/4" x 9"

CONFAST 1-1/4" x 9" Wedge Anchor Instruction Manual

Model: 1-1/4" x 9"

Brand: CONFAST

1. Product Overview

The CONFAST 1-1/4" x 9" Wedge Anchor is a robust fastening solution designed for secure installation in concrete. This anchor is constructed from carbon steel and features a zinc-plated finish, providing resistance against rust in dry environments. It comes complete with the necessary nuts and washers for a straightforward installation.

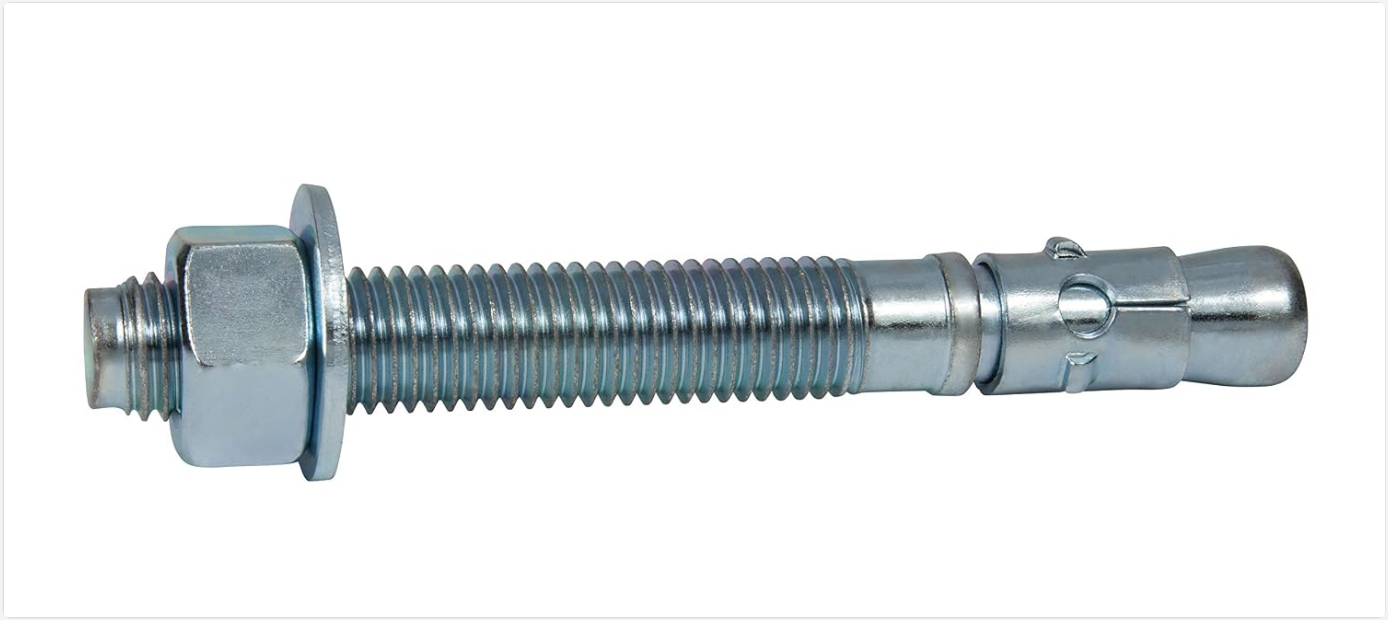


Image: A single CONFAST 1-1/4" x 9" zinc-plated wedge anchor, showing the threaded bolt, expansion clip, nut, and washer. The anchor is designed for heavy-duty fastening in concrete.

Key features include:

- **Zinc Plated:** Helps prevent rust in dry environments.
- **Wide Range of Sizes:** Ensures the proper fastener for optimal results.
- **Packaged with Nuts and Washers:** Facilitates fast, quick, and complete installation.
- **Hole Size is Anchor Size:** Simplifies and eases installation.

2. Applications

This wedge anchor is specifically engineered for use in **concrete only**. It is crucial that this anchor is never used in block or brick base materials, as its design is optimized for the unique properties of concrete to ensure maximum holding power and safety.

3. Specifications

Product Dimensions and Requirements

Specification	Value
Anchor Material	Carbon Steel, Zinc Plated
Environment	Dry environment only
Anchor Diameter	1-1/4"
Anchor Length	9"
Thread Length	4"
Required Hole Diameter (Base Material)	1-1/4" (must be drilled with carbide tipped bit meeting ANSI standards, using a hammer drill)
Minimum Embedment into Concrete	5-1/2"
Maximum Fixture Thickness	2-1/4" (ensures minimum embedment is met)
Required Fixture Hole Diameter	1-1/2" (must be larger than anchor diameter)
Recommended Torque Value	400 - 450 ft./lbs.
Minimum Spacing Between Anchors (center to center)	12-1/2"
Minimum Edge Distance (from unsupported concrete edge)	6-1/4"

4. Installation (Setup)

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

1. **Drill the Hole:** Using a hammer drill and a carbide-tipped bit that meets ANSI standards, drill a hole in the concrete base material. The hole diameter must be exactly **1-1/4"**, matching the anchor's diameter. Ensure the hole depth allows for a minimum embedment of **5-1/2"** for the anchor.
2. **Clean the Hole:** Thoroughly clean the drilled hole of all dust and debris. Use a wire brush and a vacuum or compressed air to ensure a clean surface for optimal anchor grip.
3. **Prepare Fixture:** Ensure the hole in the fixture or material being fastened is **1-1/2"** in diameter. This allows the anchor to pass through freely before expansion.
4. **Insert Anchor:** Insert the wedge anchor through the fixture and into the pre-drilled hole in the concrete. Ensure the anchor is fully seated and the minimum embedment depth is achieved.
5. **Tighten Nut:** Hand-tighten the nut until it is snug.

6. **Torque Anchor:** Using a torque wrench, tighten the nut to the recommended torque value of **400 - 450 ft./lbs.** This action pulls the bolt upwards, expanding the wedge clip against the concrete and creating a secure hold.
7. **Verify Spacing and Edge Distance:** Before drilling, always ensure that each anchor will be spaced a minimum of **12-1/2"** from other anchors (center to center) and at least **6-1/4"** from any unsupported edge of the concrete.

5. Operating / Usage

Once properly installed and torqued, the CONFAST Wedge Anchor is designed to provide a permanent and secure fastening point in concrete. The anchor's primary function is to hold the attached fixture firmly in place. No further operational steps are required after installation, provided the anchor is used within its specified load limits and environmental conditions.

6. Maintenance

CONFAST Wedge Anchors are designed for long-term, maintenance-free performance once correctly installed. However, periodic inspection is recommended, especially in critical applications or environments with potential for corrosion or structural changes.

- **Visual Inspection:** Periodically check the anchor and the surrounding concrete for any signs of cracking, loosening, or corrosion.
- **Environmental Conditions:** Ensure the anchor remains in a dry environment as specified. Exposure to moisture or corrosive agents can compromise the zinc plating and the anchor's integrity over time.
- **Retorquing:** In some dynamic load applications, a professional may recommend periodic retorquing. Consult with an engineer if you suspect the anchor's holding power has been compromised.

Note: Do not attempt to remove and re-use a wedge anchor. Once expanded, its holding power is compromised if removed.

7. Safety Information

Always prioritize safety during installation and use of the CONFAST Wedge Anchor:

- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, especially when using a hammer drill.
- Ensure the concrete base material is sound and free of cracks or defects before drilling.
- Never use this anchor in block or brick. It is designed exclusively for concrete.
- Adhere strictly to the recommended hole diameter, embedment depth, spacing, and edge distance to prevent concrete spalling or anchor failure.
- Do not exceed the specified torque value, as overtightening can damage the anchor or the concrete.
- Consult a qualified engineer for critical applications or if you are unsure about the suitability of the anchor for your specific project.

8. Troubleshooting

While CONFAST Wedge Anchors are reliable, issues can arise from improper installation. Here are common problems and their solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Anchor spins freely when tightening	Hole drilled too large; hole not clean; anchor not fully seated.	Remove anchor, clean hole thoroughly. If hole is too large, relocate anchor or use a larger diameter anchor if appropriate for the application. Ensure anchor is fully seated before tightening.
Anchor does not reach full torque	Insufficient embedment depth; concrete too weak; hole not clean.	Ensure minimum embedment of 5-1/2" is met. Verify concrete strength. Clean hole thoroughly.
Concrete spalling or cracking around anchor	Anchor installed too close to edge or other anchors; overtightening; weak concrete.	Ensure proper edge distance (6-1/4") and spacing (12-1/2"). Do not overtighten. Assess concrete quality.
Anchor appears loose after installation	Not torqued to specification; concrete failure.	Retorque to 400-450 ft./lbs. If still loose, the concrete may have failed, requiring relocation or professional assessment.

9. Warranty Information

For specific warranty details regarding your CONFAST Wedge Anchors, please refer to the packaging or contact CONFAST customer support directly. General warranty terms typically cover manufacturing defects under normal use conditions.

10. Contact and Support

For further assistance, technical questions, or support, please contact CONFAST:

Brand Website: Visit the CONFAST Store on Amazon

Manufacturer: CONFAST

ASIN: B072PQVHVQ

When contacting support, please have your product model and purchase information ready.

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