

HILTI 3523664

HILTI 3523664 HAS-R SS316 Anchor Rod Instruction Manual

Model: 3523664

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the HILTI 3523664 HAS-R SS316 Anchor Rod. This anchor rod is designed for use in conjunction with HILTI chemical anchor systems to create secure fastenings in various base materials. The SS316 stainless steel construction offers excellent corrosion resistance, making it suitable for demanding environments. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions can result in serious injury or death.

- Always wear appropriate Personal Protective Equipment (PPE), including safety glasses, gloves, and hearing protection, during installation.
- Ensure the installation area is well-ventilated, especially when working with chemical adhesives.
- Consult local building codes and regulations before commencing any anchoring work.
- Only use HILTI anchor rods with compatible HILTI chemical anchor systems. Mixing components from different manufacturers may compromise performance and safety.
- Do not exceed the specified load capacities for the anchor system. Refer to the technical data for the specific HILTI chemical anchor adhesive being used.
- Keep children and unauthorized personnel away from the work area.

3. PRODUCT OVERVIEW

The HILTI 3523664 HAS-R SS316 Anchor Rod is a high-quality threaded rod designed for use with HILTI chemical injection systems. It features a chisel tip for easy insertion into the adhesive and a hexagonal nut and washer for secure fastening.

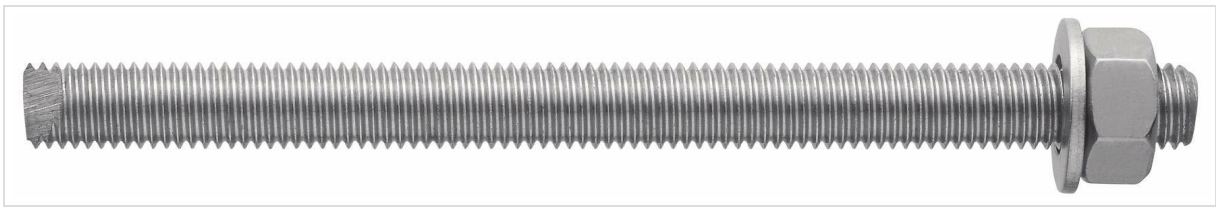


Image 1: HILTI 3523664 HAS-R SS316 Anchor Rod. This image displays the anchor rod, typically with a threaded shaft, a chisel end, and often accompanied by a nut and washer.

Components:

- HAS-R SS316 Anchor Rod (1/2" x 8")
- Hexagonal Nut (compatible with 1/2" rod)
- Washer (compatible with 1/2" rod)

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of the anchor system. Always refer to the specific instructions provided with the HILTI chemical adhesive being used, as procedures may vary.

General Installation Steps:

1. **Drill Hole:** Using a HILTI rotary hammer and a carbide drill bit of the specified diameter, drill a hole to the required depth in the base material (e.g., concrete, masonry). Ensure the hole is perpendicular to the surface.
2. **Clean Hole:** Thoroughly clean the drilled hole using a HILTI steel brush and a blow-out pump or compressed air. Repeat this process until no dust or debris remains. Proper cleaning is critical for adhesive bond strength.
3. **Prepare Adhesive:** Prepare the HILTI chemical adhesive cartridge according to its specific instructions. Attach the mixing nozzle.
4. **Inject Adhesive:** Dispense the adhesive into the cleaned hole, starting from the bottom. Fill the hole to the recommended volume (typically 2/3 to 3/4 full) to ensure complete encapsulation of the anchor rod.
5. **Insert Anchor Rod:** Immediately insert the HILTI HAS-R SS316 anchor rod into the adhesive-filled hole with a slight twisting motion until it reaches the bottom of the hole. Ensure the rod is centered and plumb.
6. **Cure Time:** Allow the adhesive to cure fully according to the manufacturer's specifications (temperature-dependent). Do not load the anchor during the curing period.
7. **Apply Torque:** Once cured, attach the washer and nut to the exposed threaded end of the anchor rod. Tighten the nut to the specified torque value using a calibrated torque wrench. Do not overtighten.

5. OPERATING INSTRUCTIONS

Once properly installed and cured, the HILTI HAS-R SS316 Anchor Rod functions as a secure fastening point. Its operation involves providing a reliable connection for structural elements, fixtures, or equipment. Ensure that the applied loads do not exceed the design capacity of the anchor system. The SS316 material ensures long-term performance in corrosive environments.

6. MAINTENANCE

HILTI HAS-R SS316 Anchor Rods are designed for durability and minimal maintenance. However, periodic inspection is recommended, especially in critical applications or corrosive environments.

Inspection Guidelines:

- Visually inspect the exposed portion of the anchor rod, nut, and washer for any signs of corrosion, damage, or loosening.
- Check for cracks or spalling in the base material around the anchor.
- Ensure the nut remains securely tightened to the specified torque.
- If any damage or significant corrosion is observed, consult a qualified engineer to assess the integrity of the anchor.

7. TROUBLESHOOTING

Most issues with anchor rods stem from improper installation or incorrect product selection. Adhering strictly to the installation guidelines and using the correct HILTI chemical adhesive for the application will prevent common problems.

Common Issues and Solutions:

- **Anchor Pull-Out:** This is often caused by insufficient hole cleaning, incorrect hole diameter, inadequate adhesive fill, or premature loading. *Solution:* Ensure thorough hole cleaning, use the correct drill bit and depth, fill the hole adequately, and observe full cure times.
- **Corrosion:** While SS316 offers high corrosion resistance, extreme environments or exposure to specific chemicals can still cause issues. *Solution:* Ensure the anchor material is appropriate for the environmental conditions. Regular inspection can help identify early signs of corrosion.
- **Nut Loosening:** Can occur due to vibration or improper torque during installation. *Solution:* Always apply the specified torque using a calibrated wrench. Consider using locking washers or thread-locking compounds in high-vibration applications.

8. SPECIFICATIONS

Specification	Detail
Brand	HILTI
Model Number	3523664
Material	Stainless Steel 316 (SS316)
Dimensions	1/2 inch diameter x 8 inches length
Number of Items (per pack)	120
Manufacturer	Hilti

9. WARRANTY AND SUPPORT

For specific warranty information regarding HILTI products, please refer to the official HILTI website or contact HILTI customer service directly. HILTI stands behind the quality of its products and provides comprehensive support.

If you have technical questions, require assistance with product selection, or need troubleshooting support,

please contact HILTI customer service or your local HILTI representative. You can find contact information on the official HILTI website: www.hilti.com