

Sti SSWRC2

# Fire Barrier Restraining Collar Instruction Manual

Model: SSWRC2 | Brand: Sti

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Sti Fire Barrier Restraining Collar, Model SSWRC2. This metal restraining collar is designed to be used in conjunction with the SSWRED2 system to enhance fire barrier integrity.



*Figure 1: Sti Fire Barrier Restraining Collar (SSWRC2) in coiled form. This image shows the metallic, flexible collar material, which features a serrated edge and pre-drilled holes for attachment, indicating its design for firestopping applications.*

## 2. SAFETY INFORMATION

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Always adhere to local building codes, fire safety regulations, and manufacturer guidelines during installation. Improper installation can compromise fire safety and may lead to serious injury or property damage.

- Wear appropriate personal protective equipment (PPE), including gloves and eye protection, during handling and installation.
- Ensure the installation area is clear of obstructions and hazards.
- Consult with a qualified fire safety professional if you have any doubts regarding the application or installation process.
- Do not modify the product. Use only as intended and specified by the manufacturer.

## 3. PRODUCT OVERVIEW

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The Sti Fire Barrier Restraining Collar (SSWRC2) is a flexible metal strip designed to provide structural support and enhance the firestopping capabilities of penetrations when used with the SSWRED2 system. Its serrated edges and pre-drilled holes facilitate secure attachment and conformity around various pipe or conduit sizes.

### 3.1 Components

- **SSWRC2 Restraining Collar:** A 25-foot (7.6 meter) long metal strip.
- *Note:* Fasteners for attachment (e.g., screws, anchors) are typically supplied separately or as part of the SSWRED2 system.

## 4. INSTALLATION INSTRUCTIONS

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This collar is intended for use with the SSWRED2 system. Refer to the SSWRED2 system's specific installation guide for detailed instructions on its application. The following steps outline the general procedure for integrating the SSWRC2 collar.

1. **Prepare the Penetration:** Ensure the opening in the fire-rated assembly (wall or floor) is clean and properly sized for the penetrating item (pipe, conduit, etc.).
2. **Apply SSWRED2 Material:** Install the SSWRED2 firestop material around the penetrating item according to its specific instructions.
3. **Measure and Cut Collar:** Measure the circumference of the penetrating item or the required length to encircle the SSWRED2 material. Cut the SSWRC2 collar to the appropriate length using suitable metal shears.
4. **Form the Collar:** Wrap the cut length of the SSWRC2 collar around the SSWRED2 material, ensuring a snug fit. The serrated edge should face outwards or as specified by the SSWRED2 system's instructions.
5. **Secure the Collar:** Overlap the ends of the collar and secure them together using appropriate fasteners through the pre-drilled holes. Ensure the collar is tightly secured around the firestop material to provide adequate restraint.
6. **Attach to Structure:** Secure the collar to the fire-rated assembly (wall or floor) using suitable fasteners through the remaining pre-drilled holes. The number and type of fasteners should comply with the SSWRED2 system's listing and local building codes.
7. **Inspect Installation:** Visually inspect the installed collar to ensure it is securely fastened, properly formed, and provides continuous restraint around the firestop material.

## 5. OPERATION AND FUNCTION

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The SSWRC2 Fire Barrier Restraining Collar does not have active operational components. Its function is passive and structural. When installed correctly with the SSWRED2 system, it provides mechanical restraint to the firestop material, preventing its displacement during a fire event. This ensures the firestop system maintains its integrity and prevents the passage of flame and smoke through the penetration.

## 6. MAINTENANCE

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The Sti Fire Barrier Restraining Collar requires minimal maintenance once installed. Periodic inspections are recommended as part of a building's overall fire safety maintenance plan.

- **Annual Inspection:** Visually inspect the installed collar and surrounding firestop system annually, or as required by local regulations.
- **Check for Damage:** Look for any signs of corrosion, deformation, or loosening of fasteners.
- **Repair/Replace:** If any damage or loosening is observed, consult a qualified fire safety professional for repair or

replacement of the affected components to ensure continued fire barrier integrity.

- **Keep Clear:** Ensure the area around the firestop penetration remains clear of obstructions.

## 7. TROUBLESHOOTING

As a passive component, the SSWRC2 collar does not typically experience "malfunctions." Troubleshooting primarily involves identifying improper installation or damage.

| Problem   | Possible Cause   | Solution   |
|---|--|--|
| Collar appears loose or deformed.                           | Improper fastening during installation; physical impact; material fatigue. | Re-secure fasteners. If deformed or damaged, replace the collar. Consult a fire safety professional.   |
| Signs of corrosion on collar.                               | Exposure to moisture or corrosive agents.                                  | Assess the extent of corrosion. If structural integrity is compromised, replace the collar. Address the source of moisture/corrosion.                  |
| Firestop system integrity compromised (e.g., gaps, cracks). | Improper installation of SSWRED2 or SSWRC2; building movement; damage.     | This indicates a critical fire safety issue. Immediately consult a qualified fire safety professional to assess and repair the entire firestop system. |

## 8. SPECIFICATIONS


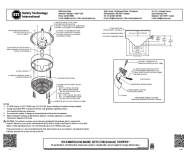
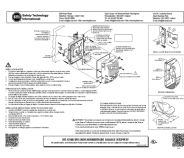
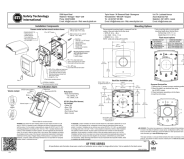


| Attribute            | Detail   |
|----------------------|--|
| Model Number         | SSWRC2   |
| Brand                | Sti  |
| Material             | Metal  |
| Length               | 25 feet (7.6 meters)                                     |
| Intended Use         | Restraining collar for use with SSWRED2 firestop system. |
| Manufacturer         | Sti  |
| Date First Available | January 8, 2019  |

## 9. WARRANTY AND SUPPORT

For specific warranty information and technical support regarding the Sti Fire Barrier Restraining Collar (SSWRC2) or the SSWRED2 system, please contact the manufacturer directly. Warranty terms typically cover manufacturing defects and are subject to proper installation and use as outlined in this manual and associated product documentation.

**Manufacturer Contact:** Refer to the official Sti website or product packaging for the most current contact information.



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|  <p>STI GF FIRE ALARM<br/>PUSH BUTTON</p> <p>Technical specifications and features for the STI GF Fire Alarm Push Button, including optional IP camera, durable polycarbonate construction, and versatile mounting options.</p>                                 | <p><a href="#">STI GF Fire Alarm Push Button with Optional IP Camera - Technical Overview</a></p> <p>Detailed information on the STI GF Fire Alarm Push Button, featuring an optional IP camera for enhanced identification, durable polycarbonate construction, and versatile mounting options. Includes technical specifications, approvals, and accessories.</p>  |
|  <p>Technical specifications and features for the STI-8100 and STI-8130 Smoke Detector Damage Stoppers, including installation steps and important warnings.</p>   | <p><a href="#">STI-8100/STI-8130 Smoke Detector Damage Stopper Installation Guide</a></p> <p>Comprehensive installation guide and product information for the STI-8100 and STI-8130 Smoke Detector Damage Stoppers from Safety Technology International. Learn about features, dimensions, installation steps, and important warnings.</p>   |
|  <p>Technical specifications and features for the STI-1210B Speaker Horn/Strobe Damage Stopper, including installation requirements, light derating factors, and sound reduction for fire alarm appliances.</p>  | <p><a href="#">STI-1210B Speaker Horn/Strobe Damage Stopper Installation and Performance Guide</a></p> <p>Installation guide and performance data for the STI-1210B Speaker Horn/Strobe Damage Stopper, detailing installation requirements, light derating factors, and sound reduction for fire alarm appliances. Includes UL installation requirements and warnings.</p>  |
|  <p>Technical specifications and features for the STI GF Fire Series alarm initiating station, including component identification, mounting procedures, electrical connections, and safety compliance information.</p>   | <p><a href="#">STI GF Fire Series Alarm Station Installation Guide</a></p> <p>Installation guide for the STI GF Fire Series alarm initiating station, covering component identification, mounting procedures, electrical connections, and safety compliance information.</p>   |
|  <p>Technical specifications and features for the STI Stopper II Series protective cover for manual fire alarm pull stations, including physical damage protection, optional audible alarm, weather resistance (NEMA 3R), and ADA compliance.</p>             | <p><a href="#">STI Stopper II Series: Protective Cover for Fire Alarm Pull Stations - Installation &amp; Specifications</a></p> <p>Comprehensive guide to the STI Stopper II Series protective cover for manual fire alarm pull stations. Features include physical damage protection, optional audible alarm, weather resistance (NEMA 3R), and ADA compliance. Details installation steps, specifications, testing approvals, and maintenance.</p> |
|  <p>Technical specifications and features for STI's E-Wrap Endothermic Wrap, including product data sheet, protective wrap designed for fire protection of circuits and infrastructure, providing up to 2 hours of circuit integrity in fire conditions.</p> | <p><a href="#">E-Wrap Endothermic Wrap Product Data Sheet</a></p> <p>Product data sheet for STI's E-Wrap Endothermic Wrap, a protective wrap designed for fire protection of circuits and infrastructure, providing up to 2 hours of circuit integrity in fire conditions.</p>   |