

# SpecSeal® Range-Taking Firestop Collars (RTC)

SpecSeal®

# RTC

SpecSeal® Range-Taking Firestop Collars (RTC) are factory-manufactured devices designed to seal plastic pipes penetrating through fire resistance rated walls and floors. SpecSeal® RTC Collars are comprised of a heavy gauge metal collar housing a molded intumescent insert. The adjustable collar is designed to allow a single collar to fit 3 in (89 mm) and 4 in (114 mm) trade size pipes and corresponding 3" (102 mm) and 4" (127 mm) couplings. When exposed to temperatures in excess of 320°F (160°C), the SpecSeal® Range-Taking Firestop Collars's molded insert begins to expand (intumesce) rapidly to form a dense, highly insulative char. Free expansion ranges from 32x to 64x original (pre-expanded) volume. Expansion continues up to 1,000°F (538°C).

## Applications

SpecSeal® Range-Taking Firestop Collars are used to protect a variety of plastic pipes and couplings including PVC, PVC Cellular Core (ccPVC), CPVC, ABS, and ABS Cellular Core (ccABS) in both vented (DWV) and closed (electrical conduit (RNC) or water supply) installations. SpecSeal® Range-Taking Firestop Collars are suitable for use in all common constructions including concrete floors, concrete over steel deck, concrete walls, concrete block walls, gypsum board/stud walls, as well as wood floor/ceiling assemblies.

## Specifications

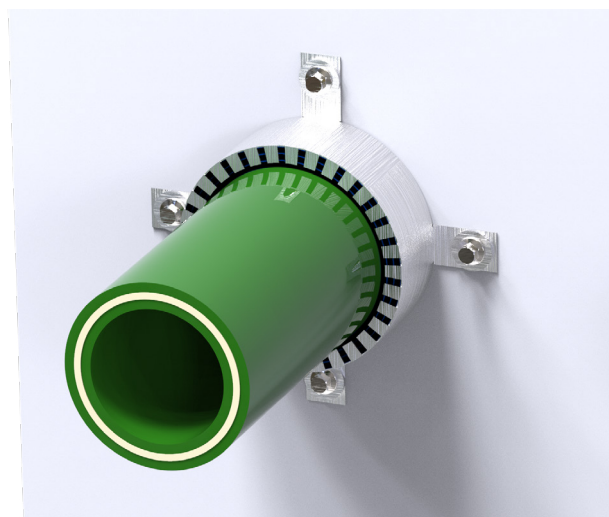
The firestop system shall be a factory assembled firestop collar utilizing a molded, flexible intumescent insert. The intumescent insert shall provide a minimum of 30x free expansion and shall contain no water soluble expansion ingredients. The specified material shall be approved for a wide range of applications including PVC, PVC Foam Core (ccPVC), CPVC, RNC, PP, FRPP, FRP, HDPE, PE, PVDF, ABS and ABS Foam Core (ccABS) when used by itself or in combination with other products from the same manufacturer. The collar shall be UL Certified and tested to the requirements of ASTM E814 (UL1479) and CAN/ULC-S115.

### Specified Divisions

Division 7	07 84 13	Penetration Firestopping
Division 22	22 00 00	Plumbing

## Performance

SpecSeal® Range-Taking Firestop Collars are the basis for systems that meet the exacting criteria of ASTM E814 (UL1479) and CAN/ULC-S115. Systems have been tested for all common forms of construction and the most common plastic pipes and couplings with ratings up to two hours. Consult factory for more information or refer to the UL Online Certifications Directory/UL Product IQ™.



## PHYSICAL PROPERTIES

Shell Construction	Nom 22 GA galvanized steel (0.03" (0.76 mm) thick)
Intumescent Insert	Molded one piece
Sizes accommodated	3" trade size pipe (89 mm) 3" trade size pipe fitting (102 mm) 4" trade size pipe (114 mm) 4" trade size pipe fitting (127 mm)
Expansion Begins	320°F (160°C)
Volume Expansion	32x to 64x (free expansion)
In Service Temperature	Less than 120°F (49°C)
Shelf Life	No Limit

## Features & Benefits

- Adjustable - one collar fits 3" (89 mm) pipe, 3" (102 mm) coupling, 4" (114 mm) pipe, and 4" (127 mm) coupling
- Rapid expansion - closes off burning pipes quickly
- Small profile - use it in all the tight spots
- Flexible & durable - no loose flakes (eye hazards)
- Water resistant - no water soluble or hygroscopic ingredients
- Economical - lower installed cost
- High volume char - expands up to 60 times

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**Limitations**

This product has been designed to be safe with plastics. It has been used extensively and successfully with various types of plastic pipes, tubes, and plastic cable insulations. Variations in these materials, however, make it impossible to guarantee compatibility. STI strongly recommends that the user consults with the pipe, tubing, or cable manufacturer in question regarding any known sensitivities or potential restrictions before applying this product.

**Maintenance**

INSPECTION: Installations should be inspected periodically for subsequent damage. Any damage should be repaired using SpecSeal® Firestop Products per the original approved design.

**System Selection**

To find your firestop system or create a submittal, visit <https://systems.stifirestop.com/> to use System Search & Submittal Builder. You may also visit the [UL Online Certifications Directory/UL Product iQ™](#) for complete listings. (Firestop Systems).

**Technical Service**

Specified Technologies Inc. provides toll free technical support to assist in product selection and appropriate installation design. UL System designs suitable for submittal or specification purposes are available on request. A complete library of technical information is provided at the company's website [www.stifirestop.com](http://www.stifirestop.com) including Safety Data Sheets (SDS's).

**Precautionary Information**

No unusual hazards are known or expected. Observe normal safety procedures during installation.

**Availability**

SpecSeal® Range-Taking Firestop Collars are available from Specified Technologies Inc. (STI) authorized distributors. For additional purchasing and technical information or for the names and locations of the nearest representative and/or distributor, regarding this and other Specified Technology products, please call 1-800-992-1180 or visit [www.stifirestop.com](http://www.stifirestop.com).

**ORDERING INFORMATION**

Catalog Number	UPC Number	Description	(UOM) Qty.	Case Qty.	Weight (Each)
RTC350	730573038352	Adjustable factory collar for 3" (89 mm) & 4" (114 mm) pipe and associated couplings	1	6	0.80 lbs (0.36 kg)

IMPORTANT NOTICE: ALL STATEMENTS, TECHNICAL INFORMATION, AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON TESTING BELIEVED TO BE RELIABLE, BUT THE ACCURACY AND COMPLETENESS THEREOF IS NOT GUARANTEED.

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