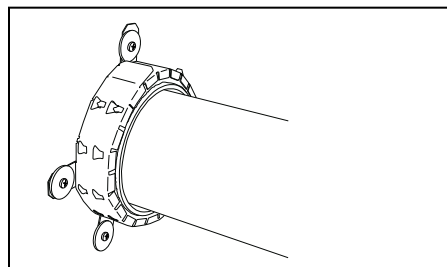




SERIES RTC RANGE-TAKING FIRESTOP COLLAR

APPLICATIONS

SpecSeal® RTC 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 or water supply) installations. SpecSeal® RTC 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.



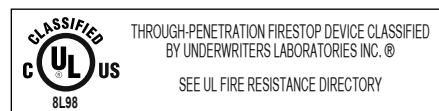
PRODUCT DESCRIPTION

SpecSeal® Series RTC Range-Taking Firestop Collars 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" and 4" trade size pipes (89 and 114 mm) and corresponding 3" and 4" couplings (102 and 127 mm). When exposed to temperatures in excess of 320°F (160°C), the SpecSeal® RTC Collar's molded insert begins to expand (intumesce) rapidly to form a dense, highly insulative char. Free expansion ranges from 32 to 64 times original (pre-expanded) volume. Expansion continues up to 1,000°F (538°C).

FEATURE	BENEFIT
<ul style="list-style-type: none"> Adjustable: 	One collar fits 3" (89 mm) pipe, 3" (102 mm) coupling, 4" (114 mm) pipe, and 4" (127 mm) coupling!
<ul style="list-style-type: none"> Rapid Expansion: 	Closes off burning pipes quickly.
<ul style="list-style-type: none"> Small Profile: 	Use it in all the tight spots!
<ul style="list-style-type: none"> Flexible & Durable: 	No loose flakes (eye hazards).
<ul style="list-style-type: none"> Water Resistant: 	No water soluble or hygroscopic ingredients.
<ul style="list-style-type: none"> Economical: 	Lower installed cost.
<ul style="list-style-type: none"> High Volume Char: 	Expands up to 60 times!

PERFORMANCE

SpecSeal® RTC Collars are the basis for systems that meet the exacting criteria of ASTM E814 (UL1479). 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 UL Fire Resistance Directory.



PHYSICAL PROPERTIES

This material is extremely stable. Long term aging studies indicate no significant loss of physical properties or changes in expansion properties after elevated temperature and humidity testing. Consult factory for additional information.

SPECIFICATIONS

SPECIFIED DIVISIONS

- Division 3 – Section 03 30 00 – Cast-In-Place Concrete
- Division 4 – Section 04 22 00 – Concrete Unit Masonry
- Division 7 – Section 07 84 13 – Penetration Firestopping
- Division 9 – Section 09 20 00 – Plaster and Gypsum Board
- Division 22 – Section 22 00 00 – Plumbing
- Division 22 – Section 22 07 00 – Plumbing Insulation

INSTALLATION INSTRUCTIONS

The firestop system shall be a factory-assembled, adjustable firestop collar utilizing a molded, flexible intumescent insert. The firestop collar shall adjust to fit both trade size pipe and corresponding couplings. The intumescent insert shall provide a minimum 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 Cellular Core, CPVC, ABS, and ABS Cellular Core pipes when used by itself or in combination with other products from the same manufacturer. The collar shall be UL Classified and tested to the requirements of ASTM E814 (UL1479).

GENERAL:

The installation of this product may require the application of a smoke seal utilizing SpecSeal® Sealant as well as suitable mechanical fasteners for attachment to the floor or wall surface. Sealant and floor or wall attachment hardware must be purchased separately. SpecSeal® RTC Collars are very compact in design and therefore require relatively small cored openings. See Table A for collar dimensions and recommended opening sizes.

PHYSICAL PROPERTIES	
Product Name	RTC Firestop Collar
Shell Construction	Nom 22 GA galvanized steel (0.03" thick (0.76 mm))
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	≤120°F (49°C)

	Pipe		Coupling	
Trade Size	3" (76 mm)	4" (102 mm)	3" (76 mm)	4" (102 mm)
Opening Size	4" (102 mm)	5" (127 mm)	4.5" (114 mm)	5.5" (140 mm)
A	5.6" (142 mm)	7.1" (180 mm)	7.6" (193 mm)	8.2" (208 mm)
B	4.5" (114 mm)	5.5" (140 mm)	5" (127 mm)	6" (152 mm)
C	1.5" (38 mm)	1.5" (38 mm)	1.5" (38 mm)	1.5" (38 mm)



INSTALLATION INSTRUCTIONS (CONTINUED)

SYSTEM SELECTION: Proper methods and materials are critical to firestopping. A number of methods have been developed to suit a wide variety of firestopping applications. Consult the UL Fire Resistance Directory, STI's Product & Application Guide, or the Technical Library at www.stifirestop.com for the latest in tested application designs. Additional product literature or information may also be obtained by calling your local distributor, sales rep. or STI toll free at (800) 992-1180.

SMOKE SEALING: Some applications may require the application of sealant into the annulus around the pipe as a smoke seal. Consult the UL Classified design for installation requirements including depth and location of caulking. Where required, apply sealant to a clean surface, free of dirt, oil, rust, or scale. Caulk annulus completely shut. Sealant may be smoothed out or the collar may be set directly into the wet sealant.

PACKING MATERIALS: In some applications where the collar diameter is insufficient to completely cover the opening around the pipe, some tested designs may require mineral wool packing material to be installed into the annulus prior to the installation of the collar.

FASTENERS: Always use the correct type of fasteners shown in the appropriate UL Classified design. All fasteners should be steel (lead or plastic fasteners are unsuitable and should not be used). Nominal 1" to 1-1/2" (25 to 38 mm) diameter fender washers are used in conjunction with all wall or floor fasteners. All fasteners should be installed as per the recommendations of the manufacturer.

CONCRETE: Expanding wedge type anchors (1/4" x 1-1/4" (6 x 31 mm)) are recommended. Self-tapping steel concrete fasteners are also approved for some installations. Powder actuated fasteners may be used at the discretion of the installer and subject to the recommendations of the fastener manufacturer.

GYPSUM WALLBOARD: Toggle bolts or molly-type expanding anchors are suitable for collar attachment.

GYPSUM BOARD-WOOD FLOOR FLOOR/CEILING ASSEMBLIES: Toggle bolts are suggested for gypsum wallboard ceiling attachment. Collars mounted internally and fastened to wood may use standard #8 x 1/2" (13 mm) round head wood screws for attachment.

INSTALLATION FOR SURFACE MOUNTING:

1. Install SpecSeal® Firestop Sealant (if required).
2. Remove perforated sections of wrap strip as required to ensure tight fit around pipe.
3. With anchor tabs facing the mounting surface, flex collar open and wrap around pipe.
4. Collar uses a double hook tab and slot closure. Overlap collar so that the slots align over hook tabs and collar fits snugly on pipe or fitting.
5. Press slots down and back (towards mounting surface) over hooks and lock into the closed position.
6. Slide collar to mounting surface and mark fastener locations. Rotate collar or slide away from mounting surface to allow holes to be drilled. Reposition collar and install fasteners and fender washers. Tighten fasteners completely to finish.

MAINTENANCE

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

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.

PRECAUTIONARY INFORMATION

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

AVAILABILITY

SpecSeal® RTC Range-Taking Firestop Collars are available from authorized STI distributors worldwide. Visit www.stifirestop.com for the names and locations of the nearest sales representatives or distributors.

Catalog Number	Description	Packaging
RTC350	Adjustable factory collar for 3" (89 mm) & 4" (114 mm) pipe and associated 3" (102 mm) & 4" (127 mm) couplings.	6/BOX
<i>Additional Products are available; please visit website for more details. (www.stifirestop.com)</i>		

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.

WARRANTY

Specified Technologies Inc. manufactures its goods in a manner to be free of defects. Should any defect occur in its goods (within one year), Specified Technologies Inc., upon prompt notification, will at its option, exchange or repair the goods or refund the purchase price.

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