

FPT 100W, 100WC, 100WS

- Intumescent Wrap Strips in Collars and Wall Sleeves for Fire Protection of Through Penetrations with Plastic Pipes
- **FPT 100W** is an intumescent fire prevention laminate wrap strip used as expanded sealant for combustible pipes.
- The expanded **FPT 100W** creates a stable, hard fire resistant char filling the void left by the combustible pipe thus preventing spread of fire, smoke, and hot gases.
- **FPT 100WC** is a steel collar with installed wraps made of **FPT 100W**
- **FPT 100WS** is a steel wall sleeve with installed wrap strips, made of **FPT 100W**, centered in the sleeve.

Industry Qualifications:

- Tested by UL in accordance with following applicable standards:
- ANSI/UL 1479(ASTM E 814-02) "Fire Tests of Through Penetration Firestops"
- UL 263(ASTM E 119)
- UL 723 (ASTM E 84)
- CAN-S115H
- CAN/ULC-S101M

Made in USA



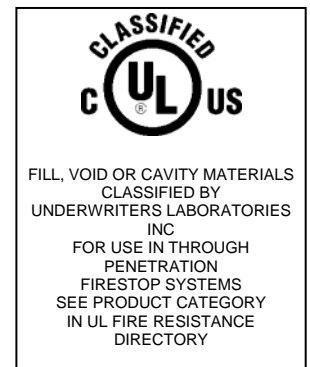
FPT 100WC



FPT 100WS

Application and Use:

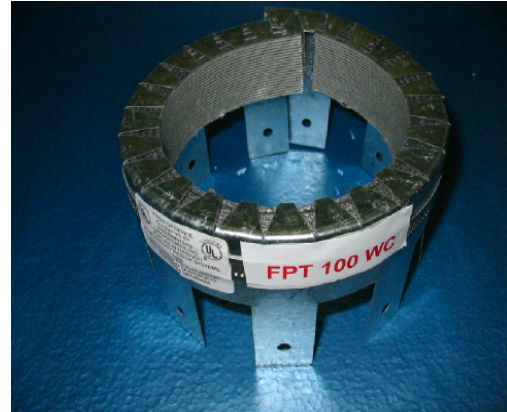
- Sealing of plastic pipe penetrations against spread of fire, smoke and hot gases
- The number of layers of FPT 100W used as sealing strip depends on the diameter of a plastic pipe, ranging from 3 layers for n.1.5 inch diameter pipe to 14 layers for n.12 inch diameter pipe.
- The thickness of each layer is 1/8 inch=3.2 mm and the width varies from 1.5" to 5.5".
- Types of Assembly being penetrated by Plastic Pipes:
 - Concrete Floor and Wall,
 - Concrete Block Wall
 - Gypsum Wallboard and
 - Wood floor/ceiling



Fire Protection Technologies, Inc.

Properties of Intumescent Wrap Strips, FPT 100W

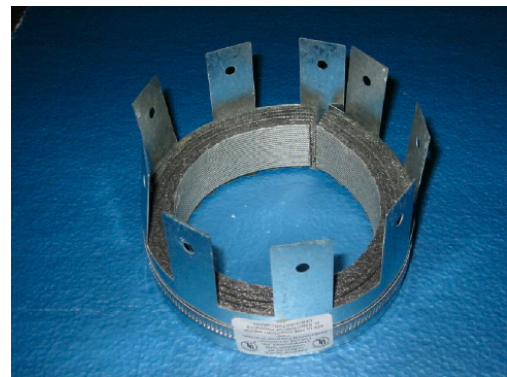
- Flexible
- Non-aging and weatherproof (15+ years)
- Expands up to 10 times its volume above 150°C (302°F)
- Expansion pressure of up to 10 bar (9.9 atm = 145 psi = 1089 kPa)
- Resistant to water and atmospheric factors (light, heat, frost, UV radiation)
- Free of organic solvents
- Wrap strip thickness 1/8 inch=3.2 mm
- Can be painted with acrylic paints, chlorinated rubber paints, 2 component epoxy-resin paints, silicones, etc.
- Density : 1.0 g/cm3



FPT 100WC

Properties of Collar with Wrap Strip, FPT 100WC

- One collar is required per UL on the underside of floor, or on both sides of the wall
- Each FPT 100WC for a given pipe diameter is shipped ready to be placed around the plastic pipe
- Easy mounting and disassembly
- Non-corrosive
- High resistance to chemical atmospheres
- Resistant to atmospheric influence, water, humidity, and to industrial climate
- Anchors or fasteners are needed
- Stainless hose clamp an integral part of the product



FPT 100WC

Properties of Wall Sleeve Wrap Strips, FPT 100WS

- Cost effective device available for angled pipe through wall
- Steel sleeve is made from 26 gauge galvanized steel
- Installed from one side of the wall only, because the wrap strips are in the center of the sleeve
- For pipes with diameter n.1.5 inch to 12 inch
- No anchors or fasteners needed
- For dry wall applications the sleeve can be attached to the pipe before the dry wall is completed.
- Drywall can be constructed around the device.
- Can be installed in walls where plastic pipes are at an angle of 90° to 45° from plane of wall (for pipes diameters n. 1.5" to 4 ")
- Comes in two standard length :8" long for installation in 4" to 8" walls and 12" long installation in 6" to 8" wall
- For extreme angles the sleeve may be specially ordered up to 30" long(12" sleeve should be ordered for 4" walls where pipe is at an acute angle).



FPT 100WS

INSTALLATION GUIDE

METHOD I. Ready made 100 WC Collars with Intumescent Wrap Strips

To apply on the underside of the floor or on both sides of the wall

- Step 1.** Check annular space requirement.
- Step 2.** Position the collar around the pipe
- Step 3.** Tighten the assembled device securely using the attached hose clamp
- Step 4.** Slide the device flush against the building assembly
- Step 5.** Mechanically fasten the device using anchors symmetrically located, to the building assembly according to the following Table:

Device Size (inch)	Total Anchor Fastened
1.5	2
2	2
3	4
4	4
6 - 12	Every tab

- Step 6.** Apply in two places intumescent Flammadur A109 seal, or Flammadur E473 mortar-as specified in UL listing

METHOD II. Ready made Wall Sleeve FPT 100WS with Intumescent Wrap Strips in the Middle

- Step 1.** Select proper size sleeve
- Step 2.** Check the annular space requirement
- Step 3.** Position the sleeve around the pipe
- Step 4.** Tighten the assembled device snugly using the attached hose clamp
- Step 5.** Slide the device through the wall assembly
- Step 6.** Bend sleeve tabs into pipe
- Step 7.** Install 5/8 inch deep intumescent Flammadur A109 for annular space around sleeve
- Step 8.** Install intumescent Flammadur A109 at ¼ inch crown at pipe-sleeve interface. No anchors or fasteners needed

FPT100WC, FPT100WS are available

COLLAR FPT 100WC	Nominal Diameter of pipe (inch)	No. of Collars per case	Weight of collar +clamp+ packing (lb)	Weight of case (lb)	No
	1.5	12	0.38	4.6	41001
	2	10	0.70	7	41002
	3	10	1.04	10.4	41003
	4	6	1.78	10.7	41004
	6	2	4.8	9.6	41006
	8	2	8	16	41008
	10	1	10	10	41010
	12	1	12	12	41012

WALL SLEEVES FPT 100WS	Nominal Diameter of pipe (inch)	No. of Sleeves per case	Weight of sleeve (lb)	Weight of case (lb)	No
For 90° angles only 8 inch Long Sleeve for 4.5 inch ≤ Wall ≤ 6 inch	1.5	8	0.81	6.5	42001
	2	6	0.86	5	42002
	3	8	1.08	8.5	42003
	4	4	2.0	8	42004
	6	2	5.0	10	42006
For acute angles ≤ 90° 12 inch Long Sleeve for 4.5 inch ≤ Wall ≤ 8 inch	1.5	8	1	8	42021
	2	6	1.5	9	42022
	3	8	1.25	10	42023
	4	4	2.75	11	42024
	6	2	6	12	42026

Products and Technical Assistance available from

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	<p>Charles R. Eminhizer, PhD Thermal Physicist</p>	<p>e-mail: charles.eminhizer@yahoo.com ceminhizer@att.net</p>	<p>Phone: (858) 442-2192</p>

Warranty:

The information provided is based upon typical installation conditions and tests Fire Protection Technologies, Inc. believes to be reliable. However, due to a wide variety of possible use conditions, the manufacturer and distributor does not guarantee that typical values expressed will necessarily be obtained. THE FOLLOWING IS MADE IN LIEU OF ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY. Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. NEITHER SELLER, DISTRIBUTOR, OR MANUFACTURER SHALL BE LIABLE FOR ANY INJURY, LOSS, OR DAMAGE, DIRECT, INCIDENTAL OR CONSEQUENTIAL, ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. Before using, user shall determine the suitability of the product of their intended use, and user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of the manufacturer, or distributor.