



Fire Protection Products

3M™ Fire Barrier Ultra Plastic Pipe Device (Ultra PPD)

Technical Data Sheet

December / 2020

Product Description

3M™ Fire Barrier Ultra Plastic Pipe Device is a one-piece metallic collar assembly encasing 3M™ Fire Barrier Ultra GS Wrap Strip intumescent material. Manufactured with 3M's firestop technology, 3M™ Fire Barrier Ultra Plastic Pipe Device has been designed to firestop non-metallic penetrations in fire rated assemblies, helping prevent the passage of smoke and flames in the event of a fire.

3M™ Fire Barrier Ultra Plastic Pipe Device is used for new and retrofit installations and will accommodate nominal 1-1/2 in. (48.3 mm actual), 2 in. (60.3 mm actual), 3 in. (88.9 mm actual) and 4 in. (114.3 mm actual) non-metallic penetrants.

Product Features

- Intumescent – Expands when exposed to heat sealing voids created by combustible items
- One piece – making installation rapid and simple
- Factory made, assuring consistent build quality
- Smoke seal – retards spread of toxic by-products of combustion
- Superior aging properties
- Multiple fastening methods: steel/masonry fasteners or 3M™ Fire Barrier Ultra-Fast Anchors

Applications

3M™ Fire Barrier Ultra Plastic Pipe Device provides a rapid and simple method of sealing wall, floor and floor/ceiling assembly non-metallic penetrations where fire resistance is needed.

3M™ Fire Barrier Ultra Plastic Pipe Device can be used to seal ccPVC, PVC, CPVC, FRPP, PVDF, ccABS and ABS pipes penetrating up to 3-hour fire rated assemblies. Assemblies may be constructed of gypsum wallboard, solid concrete, concrete blocks and even hollow core concrete floors. See a third-party Fire Resistance Directory for up to date through penetration systems and designs.

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Specifications

The penetration seal employing 3M™ Fire Barrier Ultra Plastic Pipe Device must be capable of passing ASTM E814 (ANSI/UL 1479/CAN ULC S115) Standard Method of Fire Tests for Through Penetration Fire Stops up to the desired fire resistance. All penetrations in fire-rated walls or floors shall be fitted and sealed with 3M Brand Fire Barrier Products in accordance with a tested and listed third party system/design and the manufacturer's installation instructions. 3M™ Fire Barrier Ultra Plastic Pipe Device installations shall meet the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NBCC

Performance and Typical Physical Properties

Colors Available	Silver and Black
Unit	One (1) Steel collar with 3M™ Fire Barrier Ultra GS Wrap Strip
Sizes Available	1-1/2 in.* (48.3 mm actual)
	2 in.* (60.3 mm actual)
	3 in.* (88.9 mm actual)
	4 in.* (114.3 mm actual)

*Nominal pipe size

Installation Techniques

Equipment: 3M™ Fire Barrier Ultra Plastic Pipe Device may be applied in conjunction with mechanical/masonry fasteners and steel washers or 3M™ Fire Barrier Ultra-Fast Anchors. Power tools and hand tools may be used for fastening material onto assemblies.

Preparatory Work: 3M™ Fire Barrier Ultra Plastic Pipe Device does not need any preparatory work. Holes may be drilled in concrete assemblies for fastening.

Installation Details: Tightly wrap 3M™ Fire Barrier Ultra Plastic Pipe Device around penetrating item. Device to be held in place using the closure tab. Device to be fastened to the assembly using mechanical/masonry fasteners in conjunction with steel washers or 3M™ Fire Barrier Ultra-Fast Anchors.

Limitations: It is recommended that 3M™ Fire Barrier Ultra Plastic Pipe Device is applied when the product is at a temperature between 40°F (4°C) and 110°F (43°C). It is recommended that 3M™ Fire Barrier Ultra Plastic Pipe Device be applied when the ambient air temperature is 32°F (0°C) or higher. Do not apply 3M™ Fire Barrier Ultra Plastic Pipe Device to wet or frost-coated surfaces or to areas that are continuously damp or immersed in water.

Maintenance

No maintenance is expected to be required when 3M™ Fire Barrier Ultra Plastic Pipe Device is installed in accordance with manufacturer's installation instructions. Once installed, if 3M™ Fire Barrier Ultra Plastic Pipe Device is damaged, the following procedure will apply: damaged device must be removed. Device must be replaced with new product.

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Storage and Shelf Life	<p>3M™ Fire Barrier Ultra Plastic Pipe Device should be stored indoor in dry conditions. It is recommended that the product remains in heated storage above 40°F (4°C) prior to installation.</p> <p>3M™ Fire Barrier Ultra Plastic Pipe Device shelf life is indefinite when stored indoor in dry conditions above 40°F (4°C) and below 100°F (38°C).</p>
Availability	<p>Available from 3M Authorized Fire Protection Products Distributors. For additional technical and purchasing information, call 1-800-328-1687 or visit 3M.com/firestop.</p>
Safe Handling	<p>Consult Safety Data Sheet prior to handling and disposing of 3M™ Fire Barrier Ultra Plastic Pipe Device.</p>
Technical Information	<p>The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.</p>
Product Use	<p>Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.</p>
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