



# Fire Protection Products 3M<sup>™</sup> Fire Barrier Cast-In Devices and Adapters

#### Technical Data Sheet

#### November / 2021

Product Description	<ul> <li>3M<sup>™</sup> Fire Barrier Cast-In Devices for Metal Pipes and 3M<sup>™</sup> Fire Barrier Cast-In Devices for Plastic Pipes (3M<sup>™</sup> MCID, 3M<sup>™</sup> PCID) consist of a one-piece plastic body assembly used primarily in new construction. The devices are designed to accommodate concrete floor thicknesses from 2-1/2 in. (64 mm) up to 8 in. (203 mm). 3M<sup>™</sup> Fire Barrier Cast-In Devices (3M<sup>™</sup> MCID, 3M<sup>™</sup> PCID) can accommodate a single or multiple metallic or non-metallic pipe size ranging from nominal 1-1/2 in. (48.3 mm actual) up to 6 in. (168.3 mm actual) diameter.</li> <li>3M<sup>™</sup> Fire Barrier Cast-In Devices (3M<sup>™</sup> MCID, 3M<sup>™</sup> PCID) can accommodate diverse applications when combined with the following accessories:</li> <li>3M<sup>™</sup> Fire Barrier Cast-In Height Adapter</li> <li>Accommodates concrete floor thickness greater than 8 in.</li> <li>3M<sup>™</sup> Fire Barrier Cast-In Metal Deck Adapter</li> <li>Accommodates concrete over fluted metal deck assemblies</li> <li>3M<sup>™</sup> Fire Barrier Cast-In Tub Box Adapter</li> <li>Accommodates a tub/shower or other plumbing piping assembly in conjunction with the 2 in. MCID or PCID.</li> </ul>				
Product Features	<ul> <li>Available for plastic and metal pipes</li> <li>Adjustable body with the use of pliers</li> <li>Accommodates concrete floor thicknesses as thin as 2-1/2 in. (64mm)</li> <li>Facilitates pipe installation from top or bottom side</li> <li>Red color. Easy to identify as a firestop device</li> <li>Color coded caps to allow for identification: black for metal, white for plastic</li> <li>Tested in accordance with ASTM E814/UL 1479 and CAN/ULC-S115</li> <li>Reduces labor time</li> </ul>				
Applications	3M <sup>™</sup> Fire Barrier Cast-In Devices for Metallic Pipes and 3M <sup>™</sup> Fire Barrier Cast-In Devices for Plastic Pipes (3M <sup>™</sup> MCID, 3M <sup>™</sup> PCID) are used to firestop metallic and non- metallic penetrating items through concrete floor assemblies rated up to 3 Hr. 3M <sup>™</sup> Fire Barrier Cast-In Devices (3M <sup>™</sup> MCID, 3M <sup>™</sup> PCID) may be applied to drain, waste and vented (open) or process/supply (closed) pipe systems. See manufacturer's instruction sheet supplied with each device and reference third party tested and listed systems for exact type of pipes covered and hourly ratings.				

### **3M Fire Protection Products** 3M<sup>™</sup> Fire Barrier Cast-In Place Devices and Adapters

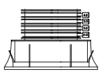
Specifications Installation shall be in strict accordance with manufacturer's written instructions, as shown on approved shop drawings. When properly installed, these through-penetration firestops prevent the spread of fire, smoke and toxic gases, helping maintain the original fire resistance rating of the construction assembly that has been penetrated. 3M™ Fire Barrier Cast-In Devices shall be used in conjunction with 3M™ Fire Barrier Cast-In Device Adapters. 3M™ Fire Barrier Cast-In Devices and Adapters shall be listed by independent test agencies such as UL, Intertek, or FM and shall be tested under the pass/fail requirements of ASTM E814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems or CAN/ULC-S115 Standard Method of Fire Tests of Firestop Systems. Suitability for the intended application should be determined prior to installation.

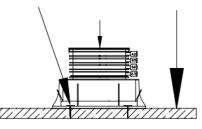
Physical Properties	Body Material	Linear low-density polyethylene (LLDPE)					
	Accessory Names Siz	Pipe Size	ze Metal Pipes	Device for Plastic Pipes 2PCID 3PCID 4PCID 6PCID	Height Adaptor 2HA 3HA 4HA 6HA	Metal Deck Adaptor 2MDA 3MDA 4MDA 6MDA	Tub Box 2TB - -
		2 inch 3 inch 4 inch 6 inch					
			3MCID				
			4MCID				
			6MCID				

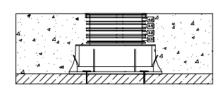
Cast-In Metal Deck Adapter only). See installation details below.

3M<sup>™</sup> Fire Barrier Cast-In Devices (3M<sup>™</sup> MCID, 3M<sup>™</sup> PCID)





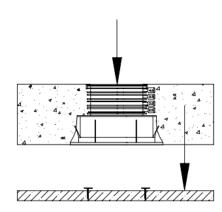




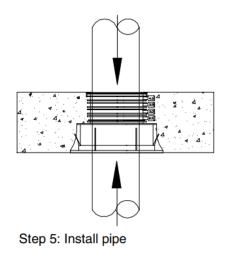
Step 1: Adjust to concrete pour depth

Step 2: Place, attach and cap

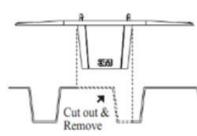
Step 3: Pour concrete



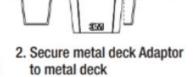
Step 4: Remove form and knock out cap

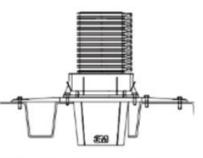


3M™ Fire Barrier Cast-In Metal Deck Adapter

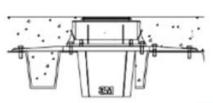


 Cut opening in deck and remove cut section of deck such that metal deck adaptor can sit flush on deck

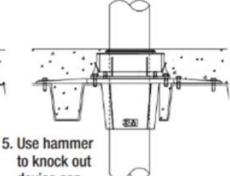




3. Snap cast-in device onto metal deck adaptor



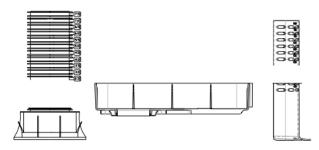
 If required, adjust cast-in device to height of concrete pour (by hand or with pliers)



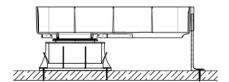
device cap and install penetrant to complete assembly

## **3M Fire Protection Products** 3M<sup>™</sup> Fire Barrier Cast-In Place Devices and Adapters

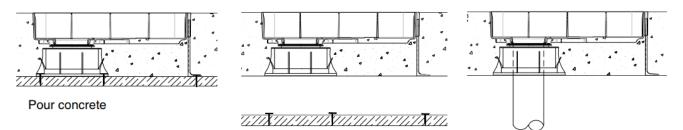
3M™ Fire Barrier Cast-In Tub Box Adapter



Adjust CID and tub box leg



Attach leg to TB and CID to TB, position and attach assembly

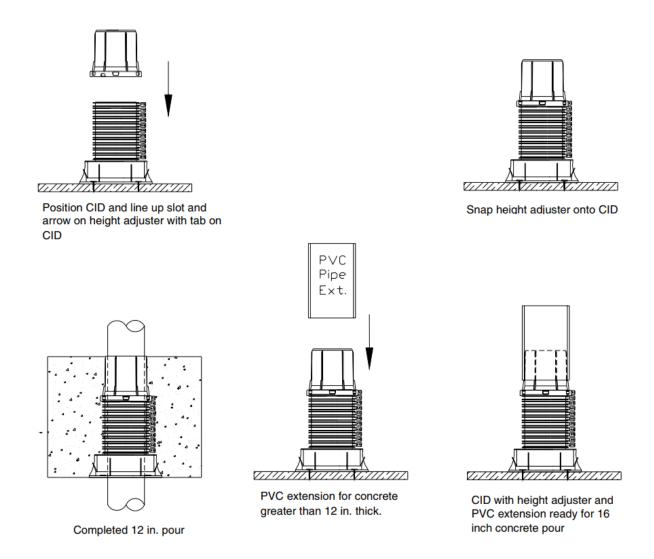


Remove form

Install pipe - complete assembly

#### **3M Fire Protection Products** 3M<sup>™</sup> Fire Barrier Cast-In Place Devices and Adapters

3M™ Fire Barrier Cast-In Height Adapter



**Limitations**: It is recommended that  $3M^{\mathbb{M}}$  Fire Barrier Cast-In Devices and Adapters are applied when the product is at a temperature between 40°F (4°C) and 110°F (43°C). It is recommended that  $3M^{\mathbb{M}}$  Fire Barrier Cast-In Devices and Adapters be applied when the ambient air temperature is 32°F (0°C) or higher.

For optimal results, 3M<sup>™</sup> Fire Barrier Cast-In Devices and Adapters must be installed before concrete is poured.

Consult a 3M Authorized Fire Protection Products Distributor Sales Representative for applicable UL, cUL, ULC, Intertek or other third-party drawings and system details

## **3M Fire Protection Products**

#### 3M<sup>™</sup> Fire Barrier Cast-In Place Devices and Adapters

Maintenance	No maintenance is expected to be required when 3M <sup>™</sup> Fire Barrier Cast-In Place Devices and Adapters are installed in accordance with manufacturer's installation instructions. Once installed, if 3M <sup>™</sup> Fire Barrier Cast-In Place Devices and Adapters are damaged, the following procedure will apply, damaged device must be removed and replaced with new product.
Storage and Shelf Life	3M <sup>™</sup> Fire Barrier Cast-In Devices and Adapters 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.
	3M <sup>™</sup> Fire Barrier Cast-In Devices and Adapters shelf life is indefinite when stored indoor in dry conditions above 40°F (4°C) and below 100°F (38°C ).
Availability	Available from 3M Authorized Fire Protection Products Distributors. For additional technical and purchasing information, call 1-800-328-1687 or visit 3M.com/firestop.
Safe Handling	Consult Safety Data Sheet prior to handling and disposing of 3M™ Fire Barrier Cast-In Devices and Adapters.
Technical Information	The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.
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