Fire Protection Products

3M™ Fire Barrier Block B258
3M™ Fire Barrier Plank PK39
3M™ Fire Barrier Plug PLG2 and PLG4

Technical Data	February / 2016

Product Description

3M™ Fire Barrier Block B258, 3M™ Fire Barrier Plank PK39, and 3M™ Fire Barrier Plug PLG2 and PLG4 are smoke, sound, and firestopping pre-formed foam units for medium to large openings in wall and floor through-penetrations. Simple to use. During a fire, product maintains a tight firestop against smoke and flame.

Product Features

- Re-enterable/repairable
- Fully reusable
- Easy to install — saves time and labor
- Paintable with primer
- No cure time

Applications

Typical applications include: blank openings, metal pipes, cables, cable trays, insulated pipes, combination penetrations, and open conduits through concrete floor/wall and gypsum wall board assemblies.

Specifications

Fire Barrier Block B258, Fire Barrier Plank PK39, and Fire Barrier Plug PLG2 and PLG4 shall be tested to the criteria of ASTM E 814/UL 1479 Standard Test Method for Fire Tests of Penetration Firestop Systems, ASTM E 84/UL 273 Standard Test Method for Surface Burning Characteristics of Building Materials, ASTM E 90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements, and ASTM E 413 Classification for Rating Sound Insulation. Fire Barrier Block B258 shall meet the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), NFPA 101, and NBCC.

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Performance and Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

		Test Method
Surface Burning:	Flame Spread 5, Smoke Development 250	ASTM E 84
Air Leakage:	Less than 1 CFM/sq. ft. @ 400°F less than 1 CFM/sq. ft. @ ambient.	UL 1479 Section 6

Product	Size	Color	Mass	Units/Ctn.	Wt./Ctn
3M Fire Barrier Block B258	2-3/8 in. x 5-1/8 in. x 7-7/8 in. (60 mm x 130 mm x 200 mm)	Maroon	575g	12	15.2 lbs. 6,9kg
3M Fire Barrier Plank PK39	2-3/8 in. x 5-1/8 in. x 39-3/8 in. (60 mm x 130 mm x 1000 mm)	Maroon	2875g	3	19.0 lbs. 8,6kg
3M Fire Barrier Plug PLG2	2 in. diam. x 3-1/8 in. high	Maroon	120g	4	1.1 lbs. 0,48kg
3M Fire Barrier Plug PLG4	4 in. diam. x 3-1/8 in. high	Maroon	360g	4	3.2 lbs. 1,4kg

Installation Techniques

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

Blocks and Planks

1. Install Fire Barrier Blocks or Fire Barrier Planks with the 5 in. (130mm) dimension projecting through the floor or wall and centered within the opening; minimum 4-1/2 in. seal thickness is required.
2. Continue to install Blocks/Planks until through opening is completely full, and blocks/planks are firmly packed together. Block/Plank can be re-sized in the field as needed provided the 5 in. (130mm) dimension is maintained through the opening. No compression is necessary.
3. Install Fire Barrier Rated Foam FIP 1-Step between the Blocks/Planks and the periphery of the opening and between Blocks/Planks and penetrants. Foam to be installed full depth of the Blocks/Planks.
4. Check for any openings between Blocks/Planks, framing, and penetrating items. Fill any visible openings with the required depth of Foam. Consult individual UL systems for Foam depth and location requirements.
5. To remove the Blocks/Planks, gently pull them out and place on a clean surface. After penetrants are routed through, or removed from the opening, replace the Blocks/Planks, making sure that they are firmly packed and fully filling the opening. Install Foam in any voids as required.

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Installation Techniques, cont.	**Plugs** 1. Install Fire Barrier Plug within the opening flush with top surface of floor or both sides of wall. 2. To fit smaller openings, Plugs may be compressed to size, or a wedge may be cut from Plug to reduce size. 3. Plugs may be cut to fit around cable penetrants 4. Holes may be cut/punched through Plugs to route cables directly through. 5. Fill all voids and interstices of cables with Fire Barrier Rated Foam FIP 1-Step, full depth of the Plug. **Limitations:** Additional firestop may be necessary for non-metallic penetrants. Consult individual UL systems for firestop requirements.
Maintenance	**Inspection:** Installations should be inspected periodically for subsequent damage. Damaged blocks, plugs, or planks shall be replaced. **Retrofit:** Penetrants may be added or replaced by simply removing and replacing blocks, planks, or plugs and foam as required.
Storage	The Fire Barrier Block B258, Fire Barrier Plank PK39 and Fire Barrier Plug PLG2 and PLG4 must be stored in a dry warehouse environment.

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Availability	Available from 3M Authorized Fire Protection Products Distributors and Dealers. For additional technical and purchasing information, call 1-800-328-1687 or visit 3M.com/firestop.
Safe Handling	Consult Article Data Sheet prior to handling and disposing of 3M™ Fire Barrier Block B258, 3M™ Fire Barrier Plank PK39, or 3M™ Fire Barrier Plug PLG2 & PLG4.
Technical Information	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.
Product Use	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.
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