



# Rigid Pillar Foam

## 08458

Technical Data

August 2018

3M Part Numbers	3M Part Descriptor
08458	3M™ Rigid Pillar Foam

### Product Description

3M™ Rigid Pillar Foam is a two-part urethane foam-in-place material packaged in a 200mL cartridge utilizing static mixing. 3M™ Rigid Pillar Foam is designed to be used as a replacement of OEM rigid non-structural foam in automotive application such as lower door pillars and side or rear body reinforcement structures. One 200mL cartridge expands to approximately 225 cubic inches.

Note: It is a best practice to keep OEM NVH material in place to maintain proper spacing between panel structure and skin. For this type repair use 3M™ NVH Material (PN 4274) on the original foam sealing and securing it to the new replacement panel during installation.

### Features

- Designed for professional aftermarket collision repair use
- Replaces OEM Rigid “Non-Structural” Foam
- 60 Second Work Time (Foam Forms)
- Remains Rigid After Full Cure

### 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.

Container	200mL Duo Syringe Cartridge	
Base	Urethane	Curative
Color	White	Amber/Brown
Flash Point	>200°F (>93°C)	
Solids Content (Approx.)	100%	
Consistency	Liquid prior to mixing	
Service Temperature	-20°F to 180°F (-20°C to 82°C)	
Foam Density (unrestricted expansion)	~ .6 lb./gal.	

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## Typical Performance Properties

The following times have been determined with ambient air temperature and substrate temperature @ 73°F (23°C) and are considered typical values.

**WORK TIME:** 60 Seconds

**CLAMP TIME:** N/A

**CURE TIME:** 1 hour

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## Product Uses

Generally used in automotive body repair when replacing rigid foam located inside body structures such as, door pillars and body side or rear panel structures and closed cavities requiring rigid foam for NVH reduction.

Use with the following accessories:

- 3M™ Manual Applicator (PN 08571 or PN 08117)
- 3M™ Pneumatic Applicator (PN 09930)
- 3M™ Static Mix Nozzle (PN 08193, 6-bag)
- 3M™ Static Mix Nozzle (PN 08194, 50-box)

**For professional use only. Not intended for retail sale.**

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## Performance Properties

The following times have been determined with ambient air temperature and substrate temperature @ 73°F (23°C) and are considered typical values.

**WORK TIME:** 60 Seconds

**CLAMP TIME:** N/A

**SAND TIME:** N/A

**CURE TIME:** 1 hour

3M™ Rigid Pillar Foam PN 08458 has been tested under SAE J 369 (section 3) and is rated SE/O (self-extinguishing).

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## Directions for Use

### CARTRIDGE PREPARATION

1. Insert the cartridge into the applicator and remove the collar and plug. Discard a small amount of material to a disposable surface and reinstall the nozzle and collar.
2. Dispense a small amount of material through the mixing nozzle on to a disposable surface, preparation is now complete. Work quickly after this step as foaming occurs in 60 seconds.

### STANDARD SOUND DEADENER APPLICATION

1. Cover areas such as interior trim to prevent accidental spillage or damage.
2. Some applications require the use of a damming material, if the OEM material has been damaged insert a suitable substitute to form a dam maintaining proper positioning of the foam material, (a balloon may work well in some cases) .
3. Apply rigid foam to previous OEM locations after final installation of outer sheet metal. Do not apply prior to welding operation completion. Consider the 60 second working time during the application.
4. In some cases, the use of a flexible hose such as clear vinyl may aide in accessing areas deep within structures, be sure to extrude the material quickly when using nozzle extensions
5. After application is complete keep the applicator plunger mechanism engaged to prevent the foam from migrating back into the cartridge. After a few minutes, the cartridge may be removed from the applicator and placed in storage with the nozzle in place.

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## Applications

Sound deadening and vibration reduction material for automotive body repairs, such as door skins to intrusion beam, trunk floors, roof bow to skin locations.

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## Storage and Handling

Store at room temperature. Rotate stock on a “first-in-first-out” basis. When stored at the recommended conditions in original, unopened containers, this product has a shelf life of 12 months. Use in a well-ventilated area.

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## Precautionary Information

Before using this product, please reference Product Label and/or Safety Data Sheet for Health and Safety Information. Note: Laws controlling the acceptable amounts of Volatile Organic Compounds (VOCs) vary by state, and in some cases by locality. For surface preparation and clean-up activities, consult federal, state and local regulations regarding use of products containing VOCs in your area.

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## 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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