

M&G DURAVENT POLYPRO® & POLYPRO® FLEX: VENTING SYSTEMS FOR HIGH-EFFICIENCY APPLIANCES

ENGINEERED POLYPROPYLENE VENTING SYSTEMS A SAFER ALTERNATIVE TO PVC/CPVC

PolyPro® Polypropylene Venting Systems have been specially engineered for venting of high-efficiency appliances such as water heaters, condensing boilers and warm air furnaces and are ETL listed and approved.

- Polypropylene has a higher operating temperature limit of 230°F (110°C) when compared to PVC: 149°F (65°C) and CPVC: 194°F (90°C).
- PolyPro® is ETL listed to ULC S636; Listed as a Class IIA, IIB, and IIC vent system. The majority of PVC and CPVC used for venting in the United States today is not listed and labeled.




DANGERS OF USING PVC/CPVC “VENTING SYSTEMS”

PVC/CPVC polyvinyl/chlorinated polyvinyl chloride was developed for use in residential, commercial, and industrial water lines. Over time, due to the perceived savings when used as a low cost flue vent, PVC/CPVC became commonplace in venting applications.

- Over time, exposure to periods of prolonged high temperature operation and UV light (sunlight), PVC and CPVC often experiences environmental stress cracking (an aging / embrittlement process) potentially resulting in complete fracture, spillage of products of combustion and an unsafe condition.
- Scaling and hard water build up within the appliance can significantly increase flue vent temperatures almost 2 times above catalogued “new installation” flue temperatures. PVC/CPVC will not withstand these temperatures and will eventually fail.
- The risk of exposure to harmful, and potentially fatal, levels of Carbon Monoxide and the potential for fire increases over the life of the appliance and if the appliance is not properly maintained.

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JURISDICTIONS ARE ADOPTING A GREATER AWARENESS TO ASSURE THE USE OF A PROPER VENTING SYSTEM

PolypPro

NEW HAMPSHIRE:



STATE OF NEW HAMPSHIRE DEPARTMENT OF SAFETY

John J. Barthelmes, Commissioner

Division of Fire Safety

OFFICE OF THE STATE FIRE MARSHAL

J. William Degnan, State Fire Marshal



Office: NH Incident Management Center, 110 Smokey Bear Blvd., Concord, NH

Mailing Address: 33 Hazen Drive, Concord, NH 03305

Phone 603-223-4289, Fax 603-223-4294 or 603-223-4295

TDD Access: Relay NH 1-800-735-2964 ARSON HOTLINE 1-800-400-3526

BULLETIN#	TITLE			DATE ISSUED
2016-01	NFPA 54 Amended Section 12.5.3 (Effective 1-1-2016)			February 17, 2016
SUPERSEDES	RELEASED BY	APPROVED BY	SOURCE	SUPERSEDED BY
1/15/2016	JBC	KAR	NFPA & NH Board Of Fire Control	

Informational Bulletin 2016-01

PVC Technical Bulletin (NFPA 54 - 12.5.3 Amendment)

This Technical Bulletin is designed to clarify the recent amendment to NFPA 54 (2009) Section 12.5.3 The New Hampshire Board of Fire Control has amended this section of the National Fuel Gas Code - 2009, Section 12.5.3 to read as follows;

12.5.3 Plastic Vent Joints. Plastic piping and fittings used to vent appliances shall be installed in accordance with the appliance manufacturer's installation instructions, provided the maximum set point of a fixed or adjustable, water and/or flue gas, high limit setting of the appliance, does not exceed the safe operating temperature of the venting material selected. Where primer is required, it shall be of a contrasting color.

This amendment language became effective on January 1, 2016 and requires installers of category IV venting systems to select their venting materials based on the set point of a high limit and how it affects the exhaust gas temperatures. This document, along with the amendment language change, should be used in conjunction with the venting material recommendations from the appliance manufacturer.

NEW YORK (PROPOSED NYC BUILDING CODE CHANGES):

503.4 Type of venting system to be used.

- 503.4.1 Plastic piping. Plastic piping used for venting equipment appliances listed for use with such venting materials shall be permitted when approved by the commissioner listed and installed in accordance with the terms of its listing and the manufacturers' instructions. Installation shall be in accordance with the New York City Building Code. PVC shall not be permitted.
- 503.4.2 Special gas vent. Special gas vent shall be listed and installed in accordance with the terms of the special gas vent listing and the manufacturers' instructions.

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