602.2.1.8

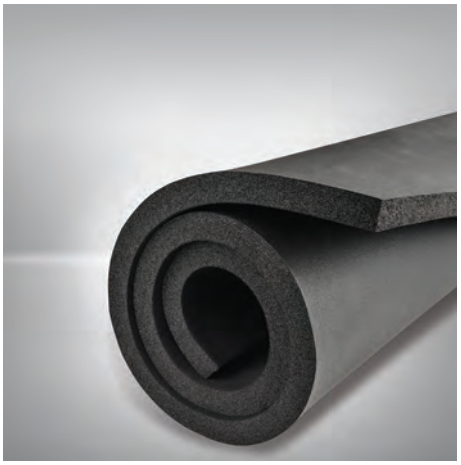
Pipe and Duct Insulation within Plenums

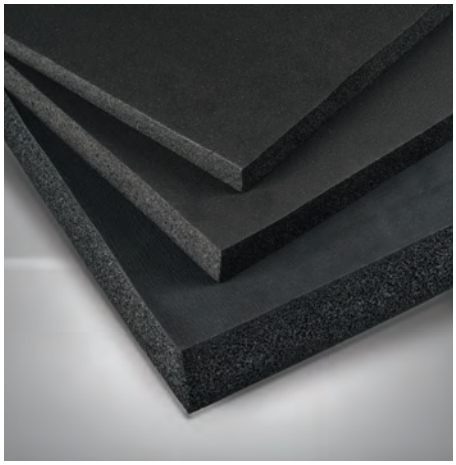
CHANGE TYPE: Addition

CHANGE SUMMARY: A new section specifically addresses duct and pipe insulation in plenums.

2018 CODE: **602.2.1.8 Pipe and duct insulation within plenums.** Pipe and duct insulation contained within plenums, including insulation adhesives, shall have a flame spread index of not more than 25 and a smoke developed index of not more than 50 when tested in accordance with ASTM E84 or UL 723, using the specimen preparation and mounting procedures of ASTM E2231. Pipe and duct insulation shall not flame, glow, smolder or smoke when tested in accordance with ASTM C411 at the temperature to which they are exposed in service. The test temperature shall not fall below 250°F (121°C). Pipe and duct insulation shall be listed and labeled.

CHANGE SIGNIFICANCE: Although materials were covered in general in Section 602.2.1, there was no subsection to specifically address duct and pipe insulation installed on the exterior of ducts and pipes located within plenums. It must be verified with the manufacturer of the insulation product whether the insulation complies with the flame spread and smoke development limits of the code.





Photos courtesy of Armacell, LLC

Pipe and duct insulation for use in plenums must meet the limitations and conditions specified in Section 602.2.1.8.

This excerpt is taken from ***Significant Changes to the International Plumbing Code®, International Mechanical Code®, International Fuel Gas Code®, 2018 Edition.*** Significant Changes publications take you directly to the most important changes that impact projects. Key changes are identified then followed by in-depth discussion of how the change affects real-world application. Photos, tables and illustrations are included to further clarify application. Available for the IBC, IRC, IFC and IPC/IMC/IFGC, the Significant Changes publications are very useful training and review tools for transitioning to a new code edition.