



Manufactured Building

*Wayne Goodwin, Commissioner of Insurance
Rick McIntyre, Assistant State Fire Marshal*

MEMORANDUM

DATE: August 15, 2014

TO: Building Officials, Manufactured Housing Manufacturers, Retailers, Set-Up Contractors and Other Interested Parties

FROM: C. Patrick Walker, P.E.
Technical Services Manager
Manufactured Building Division

SUBJECT: Water Heaters in Manufactured (HUD) Homes – Thermal Expansion Control

Question:

With regard to manufactured (HUD) homes, when a check valve or backflow prevention device is installed at the water supply meter, is a thermal expansion device required?

Answer:

Yes, an expansion device (tank, valve, etc.) shall be installed in a manufactured (HUD) home when a storage-type water heater is installed in the water distribution system with a backflow prevention device installed in the water supply line. Also, an expansion device shall be installed on a water heater replacement when a backflow prevention device is installed in the water supply line. An expansion device is not required for a tankless water heater.

Code Reference: Section 607.3.2. Backflow prevention device or check valve (2012 NC Plumbing Code)

Where a backflow prevention device, check valve or other device is installed on a water supply system utilizing storage water heating equipment such that thermal expansion causes an increase in pressure, a device for controlling pressure shall be installed.

cc: Bill Moeller, P.E. – Chief Plumbing Code Consultant - Engineering Division
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