

## Plumbing Code & Inspection Memo

### Alternate Methods & Materials

July 2006 *Updated May 2008*

The Mechanical Committee approved these Alternate Methods and Materials on July 12, 2006, that meet the intentions of Code. **Note:** The alternative methods & materials are not applicable to condensing furnace and water heater installations in new construction, and replacements in existing structures when the appliances are similar to the existing appliances in tank capacity, BTU input, and efficiency, and do not shift position after installation by more than 12".

### WATER HEATER CATCH

- **PAN** — The required 1 1/4" diameter drain need not be trapped or vented regardless of length. The termination must be outside the building and within the required clearances from property lines, sidewalks; or connected indirectly to a properly sized plumbing indirect waste receptor. The T & P drain may terminate into the pan drain line with an airgap, but not into the pan itself.

### DRAIN LINE ALTERNATIVES FOR REPLACEMENT CONDENSING FURNACE

#### Section 306.4.9, 2005 Pikes Peak Regional Building Code

*Drain line alternatives:*

- **DRAIN LINE TO INDIRECT RECEPTOR** — Drain line from the furnace can be more than 10' in length from the furnace to the indirect receptor provided that the drain is properly supported and sloped; or
- **DRAIN LINE TO DUAL CONDENSATE PUMP SYSTEM** — Drain line from the furnace drains into a dual condensate pump system consisting of a primary and backup pump. The backup pump piping must terminate in a visible, conspicuous area to alert the occupants that the primary pump is not functioning properly. The size of the pump outlet piping is to be no less than the outlet of the pump. The termination of the primary pump piping must be outside the building, or connected indirectly to a properly sized plumbing receptor.

**Exception:** If the building has two or more furnaces then each can be equipped with single condensate pumps interlocked with their furnace to deactivate the furnace if the pump fails.

An electrical permit and a dedicated GFI are required.