



## **PROHIBITED LOCATIONS**

Water heaters located in a bedroom or bathroom are required to

- 1) Be installed in a dedicated closet with a gasketed door assembly and be both self-closing and latching. The closing mechanism shall not have a hold-open feature. All combustion air shall be obtained from the outside. or; (2016 CPC 504.1(1))
- 2) The water heater shall be of the direct vent type (2016 CPC 504.1(2))

## **COMBUSTION AIR**

Fuel burning water heaters must be provided with a sufficient supply of air to assure proper combustion of fuel. (2016 CPC 506.1) In tightly constructed buildings with vapor barriers and weather stripping the combustion air must be ducted in from the outside or from attic spaces that freely communicate with the outside via permanent screened openings. Combustion air openings must be placed in accordance with 2016 CPC sections 506.4. Openings must be a minimum of three inches in least dimension. They should be at least 10 ft. away from the return air inlet of a blower type furnace (2016 CMC 311.3).

## **VENTING**

- A single wall vent connector must be fastened with three sheet metal screws, rivets or other approved fasteners at each joint. Do not use cloth tape as sole means of attachment. (2016 CMC 603.10/802.10.5)
- Single wall vent connectors must start and end in the same space as the water heater.
- No portion of the connector may be concealed within the construction of the building. (2016 CMC 802.7.3.2)
- Vent connectors must be the same size as the draft hood outlet on the appliance. They must slope up from the draft hood to the vent at least 1/4" per foot. (2016 CMC 802.10.6)
- The total horizontal length of the vent system including vent and vent connectors must not exceed 75% of the vertical height of the vent. (2016 CMC 802.10.7.1)
- A gravity type venting system must terminate at least 6 ft. above the draft hood. (2016 CMC Table 803.1.2)
- Roof top vent termination must be 8 feet away from a vertical wall and extend 2 feet above the highest point where it passes through the roof. (2016 CMC 802.6.2)
- In multiple venting situations the vent size shall be determined per 2016 CMC Table 803.1.2
- Gravity and induced draft systems may not be interconnected unless a draft hood is present.

## **CLEARANCES**

- Clearances for most water heaters can found in the provided manufacturer's installation instructions. (2016 CPC 504.3.1)
- Unlisted water heaters shall be installed with a clearance of 12" inches on all sides and rear. (2016 CPC 504.3.2)
- The opening must be at least 24" wide and large enough to remove the water heater.
- Water heaters installed in a garage must be elevated 18" above the floor unless it is listed as flammable vapor ignition resistant (2016 CPC 507.13) Note that electric water heaters with a switch and/or heating element located less than 18" above the base must also be elevated

