

# UNDERFLOOR FURNACES

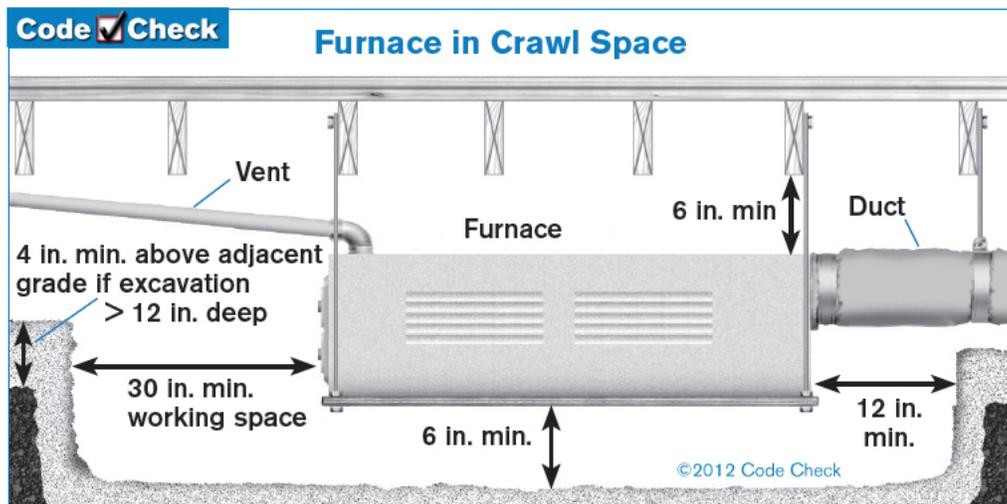
## 2016 CALIFORNIA MECHANICAL CODE SECTION 906.0

*The following is a list of the general requirements for underfloor furnaces based on the 2016 California Mechanical Code. This handout is intended to provide only general information, contact the Building and Safety Division for any questions or additional information.*

**906.1 Installation.** The installation of floor furnaces shall comply with the following requirements listed floor furnaces shall be installed in accordance with their listing and the manufacturer's installation instructions and unlisted floor furnaces shall not be installed in combustible floors.

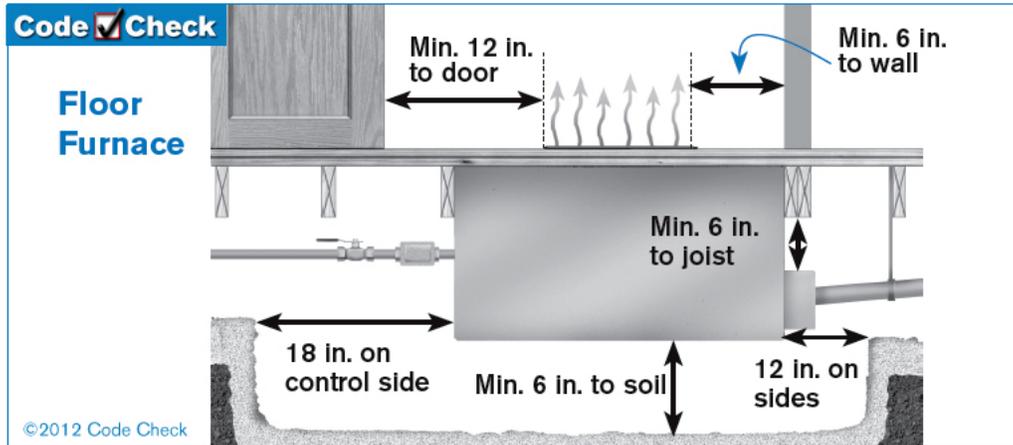
**906.4 Placement.** The following provisions apply to furnaces that serve one story:

- 1) Floor furnaces shall not be installed in the floor of a doorway, stairway landing, aisle, or passageway of an enclosure, public or private, or in an exit way from such room or space.
- 2) The register of a floor furnace with a horizontal warm air outlet shall not be placed closer than 6 inches (152 mm) from the nearest wall. A distance of not less than 18 inches (457 mm) from two adjoining sides of the floor furnace register to walls shall be provided to eliminate the necessity of occupants walking over the warm air discharge. The remaining sides shall be not less than 6 inches (152 mm) from a wall. Wall-register models shall not be placed closer than 6 inches (152 mm) to a corner.
- 3) The furnace shall be placed so that a door, drapery or similar object is not closer than 12 inches (305 mm) to a portion of the register of the furnace. [NFPA 54: 10.1104]



**906.7 Clearance.** The lowest portion of the floor furnace shall have not less than a 6 inch (152 mm) clearance from the general ground level. A reduced clearance to not less than 2 inches (51

mm) is permitted, provided the lower 6 inches (152 mm) portion of the floor furnace is sealed by the manufacturer to prevent entrance of water. Where these clearances are not present, the ground below and to the sides shall be excavated to form a "basin-like" pit under the furnace so that the required clearance is provided beneath the lowest portion of the furnace. A 12 inch (305 mm) clearance shall be provided on the sides except the control side, that which has an 18 inch (457 mm) clearance. [NFPA 54: 10.11.7J]



**906.8 Access.** The space in which a floor furnace is installed shall be accessible by an opening in the foundation not less than 24 inches by 18 inches (610 mm by 457 mm) or by a trap door not less than 24 inches by 24 inches (610 mm by 610 mm) in a cross-section thereof, and a passageway not less than 24 inches by 18 inches (610 mm by 457 mm) in a cross section thereof. [NFPA 54: 10.11.8]

**912.9 Seepage Pan.** Where the excavation exceeds 12 inches (305 mm) in depth or water seepage is capable of collecting, a watertight copper pan, concrete pit, or other approved material shall be used, unless approved drainage is provided or the appliance is sealed by the manufacturer to meet this condition. A copper pan shall be made of not less than 16 ounces per square foot (oz/ff') (4.9 kg/m<sup>2</sup>) sheet copper. The pan shall be anchored in place so as to prevent floating, and the walls shall extend not less than 4 inches (102 mm) above the ground level with not less than 6 inches (152 mm) clearance on all sides, except the control side, which shall have not less than 18 inches (457 mm) clearance. [NFPA 54: 10.11.9]