

 <p>Building Division</p>	<p align="center">Fireplace Insert</p> <p align="center">City of Palo Alto (CPA) Building Inspection Division 285 Hamilton Ave. Inspection Request: 650-329-2496</p>	Revision Date: 01/16/2015
		<p>General Requirements/Checklist for: Residential and Commercial</p> <p>Codes Enforced:</p> <ul style="list-style-type: none"> ○ 2013 CRC, CBC, CMC, CPC ○ Palo Alto Municipal Code (PAMC) ○ Bay Area Air Quality Management-District (BAAQMD)
<p>The information provided in this document is general and intended as a guide only. Each project is unique and additional requirements may be enforced as deemed appropriate.</p>		

WARNING

- Failure to complete items below prior to inspection may result in a re-inspection fee.
- Architectural shroud is not allowed, unless shroud is listed as part of the fireplace assembly.

Application:**Fireplaces** *CALGreen Code 4.503.1*

- Any installed gas fireplace shall be a **direct-vent sealed-combustion type**. Any installed woodstove or pellet stove shall comply with U.S. EPA Phase II emission limits where applicable.
- Woodstoves, pellet stoves and fireplaces shall also comply with applicable **local ordinances**.

Local Ordinance:

Permit applications filed after January 1, 2011 shall comply with Bay Area Air Quality Management District (BAAQMD) [regulation 6 rule 3](#) which prohibits sale or resale, supply, install, or transfer of new or used wood-burning device intended for use within district boundaries unless it is one of the following:

- Listed U.S EPA Phase II certified wood-burning device;
- Pellet-fueled device Listed U.S. EPA Phase II certified [EPA Approved Wood Stoves](#);
- Direct-vent sealed-combustion gas only fire place;

Criteria for Wood-burning Devices in New Building Construction:

- Effective for construction permits issued after January 1, 2011, no person or builder shall commence construction of a new building or structure permitted to contain or containing a wood-burning device or install a new wood-burning device resulting from a remodel unless the device meets the requirements of regulation 6 rule 3. This requirement does not apply if a wood-burning device is an installed fixture included in the sale or transfer of any real property nor does it apply to outdoor fireplaces.

Submittal requirements when installing factory built device in existing fireplace:

Application submittal checklist:

- Provide two copies of plans on 8-1/2"x 11" size paper.
- Indicate dimensions of the existing fireplace opening; include the hearth dimensions if installing a wood burning device.
- Write notations stating damper shall be removed and no changes/alterations to the masonry firebox or chimney are permitted.
- Provide manufacturer's specifications for new gas fireplace. The documentation must state:
 - The factory built device is acceptable for use in an existing fire place.
 - Must be UL listed.
 - Must provide make and model number with gas demands.

Shrouds:

- Architectural shroud are not allowed, unless shroud is listed as part of the fireplace assembly. *CRC R1005.2, CMC 802.6.2.4.*
- All field built shrouds designed to comply with manufacturer's standards shall be field listed by an approved third party testing agency such as RADCO, INC see vendors list.

Documentation:

- Contractor shall provide CPA inspector with **manufacturer's installation instructions.**

REQUIRED INSPECTIONS:

- MEP Inspection (*IVR #113*). Installation of vent piping, removal of damper, electrical grounding, gas piping and whole house gas test.
- Final Inspection (*IVR #101*). Seismic anchorage, shut off valve, gas appliance connection, circuit breaker labeling, carbon monoxide and smoke detectors. ***DO NOT*** install final trim pieces prior to final inspection. Failure to leave access for inspection may result in a re-inspection fee.

CPA INSPECTIONS General Requirements**Factory-Built Device:**

- Verify factory-built device is listed and labeled, and installed in accordance with the conditions of the listing.

Gas Pipe and Pressure Test:

- A whole house gas test is required upon completion of the installation, alteration, or repair of any gas piping. *CPC 1213. See "Whole House Gas Test" Inspection Guidelines.*
- Gas connector shall be rated and sized for load or demand of the appliance and shall not exceed 3' in length. **DO NOT REMOVE SIZING LABEL FROM CONNECTOR, INSPECTOR MUST VERIFY.** *CPC 1211.1, 1211.4.4 (D).*
- Gas piping shall be seismically braced and secured.

Vent termination:

- Gas Appliance Vents:** Vents 12" or smaller shall terminate a min. of 12" above any portion of a building within 8' horizontally when roof pitch is 6:12 or less. (See CMC Figure 802.6.2 for roof pitch exceeding 6:12.) Vents exceeding 12" in size, or located less than 8' from any portion of the building, shall terminate at least 2' above the highest point where they pass through the roof and not less than 2' above any portion of the building within 10' horizontally. Exception: Direct-Vent *CMC 802.6.2, 802.8.3*
- Direct-Vent input clearance to opening:** $\leq 10\text{k Btu} = 6"$, $> 10\text{k Btu} - 50\text{k Btu} = 9"$, $> 50\text{k Btu} = 12"$. The bottom of the vent shall be located a min. of 12" above grade.

Carbon Monoxide and Smoke Detectors:

- See following example:

City of Palo Alto Building Division Smoke & Carbon Monoxide Alarms

Example of Location for Smoke & CO alarms

REV. 4/1/11

Legend

● Photoelectric* smoke alarms shall be installed on ceiling or wall at each floor level including basement but not including crawl spaces and uninhabitable attics, in each bedroom and outside each sleeping area in the immediate vicinity of the bedrooms. CRC R314

- ⊗ * Dual sensor (Photoelectric/Ionization) alarms shall be used if located not less than 20 ft from a kitchen, fireplace or wood-burning stove. PAMC 16.06.090
Avoid locating dual sensor smoke alarms in the following locations:
- Outside a bathroom
 - In a kitchen or within 20 ft of an entry to a kitchen.
 - In a room with a wood burning appliance or within 20 ft of an entry to a room containing a wood burning appliance.
 - In a garage or mechanical room/closet.

■ Carbon Monoxide (CO) Alarms
When gas burning appliances or an attached garage is present, carbon monoxide alarms shall be installed outside each separate sleeping area in the immediate vicinity of the bedroom(s), and on each additional story, including basements and habitable attics. CRC R315

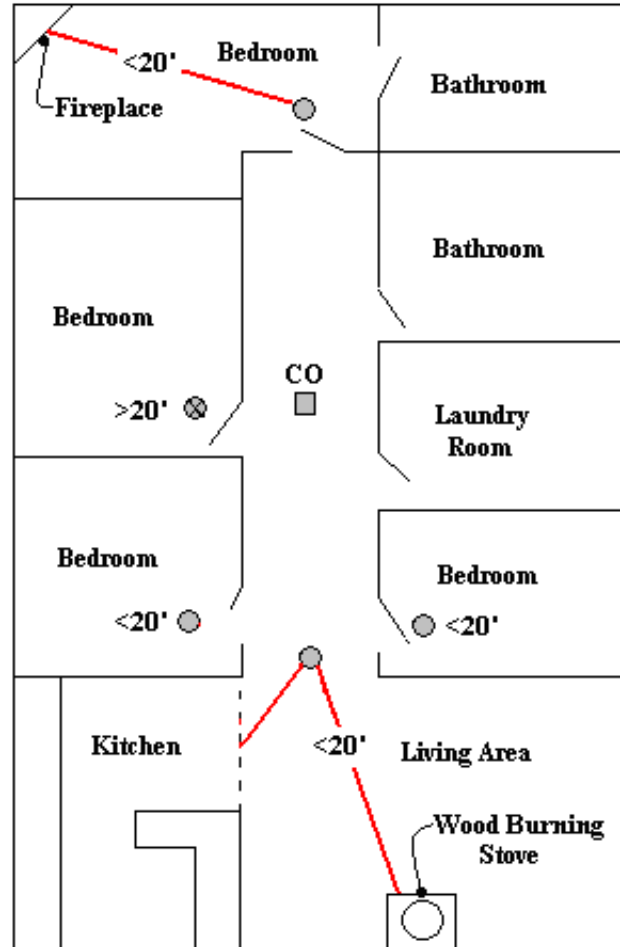
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Special Considerations:

Hallways over 40 ft in length need a smoke alarms at each end. Smoke detectors are either to be ceiling or wall mounted. Wall mounted smoke alarms are not to be located lower than 12 inches below the ceiling. Smoke alarms are not to be mounted within 4 inches of a wall/ceiling corner.

Install per manufacturer's installation instructions



Alarm requirements:

- Smoke alarms shall be listed UL 217 and California State Fire Marshal listed
- Carbon monoxide (CO) alarms shall be listed UL 2034 and UL 2075
- Combination carbon monoxide alarms combined with smoke alarms shall be California State Marshal listed.
- Go to [California State Fire Marshal](http://www.fire.ca.gov) website for the current list of approved State Fire Marshal smoke and CO alarms