



# Fire Protection Worksheet for One and Two Family Dwellings, Their Accessory Structures, and Agricultural Buildings

Application/Sub Std Number: \_\_\_\_\_ Date: \_\_\_\_\_ Reviewed By: \_\_\_\_\_

Address: \_\_\_\_\_ Parcel #: \_\_\_\_\_

### Exempt from Fire Flow and Emergency Vehicle Access (check reason below)

Accessory Structures < 3,600 sf, no habitable space, location is 30 ft from other bldgs, and 20 ft from side and rear property lines.

Ag Bldg: Located 30 ft from other buildings and 30 ft from side and rear property lines.

Building met credits and this addition does not require a change in credits. Application # \_\_\_\_\_

Meets FPB criteria for exemption \_\_\_\_\_

### Substantial Alteration Calculations (Structures constructed prior to November 14, 1992)

1. Year Built: \_\_\_\_\_ Permit #: \_\_\_\_\_ Existing building area: \_\_\_\_\_

2. Area of addition: \_\_\_\_\_ + Area of replacement: \_\_\_\_\_ + Area of remodel: \_\_\_\_\_  
Total = \_\_\_\_\_

3. Line 2 divided by line 1 x 100 = percent of alteration. \_\_\_\_\_

4. Check alerts for cumulative total of any additions or replacements since 11/15/92. \_\_\_\_\_

5. Add line 4 to line 5. If the total is equal to or greater than 50%, Fire Flow and Emergency Vehicle Access are required. \_\_\_\_\_

**Accumulated alteration is less than 50%.**

### Emergency Vehicle Access

Approved as shown \_\_\_\_\_ Revise drawing as noted:

Sprinkler System Used to Modify EVA Requirements? \_\_\_\_\_

Sprinkler System Required for 17B? \_\_\_\_\_ Routed to Inspectors for Evaluation? \_\_\_\_\_

Turnaround required for private road? \_\_\_\_\_ Routed to Inspectors for Evaluation? \_\_\_\_\_

### Fire Flow Requirement

The total floor area of all floor levels within the exterior walls, and under the horizontal projections of the roof of the building and any building within 10' feet of the building without a 2 hour IBC fire wall separating structures: \_\_\_\_\_

One & Two Family Dwellings < 3,600 sq. ft. 750 gpm for 45 min.

One & Two Family Dwellings ≥ 3,600 sq. ft. 1,000 gpm for 60 min.

One & Two Family Dwellings >5,000 sq. ft (See Back #1)

Detached Accessory Building >3,600 sq. ft (See Back #2)

### Record of Existing Fire Flow

GPM \_\_\_\_\_ Duration \_\_\_\_\_ minutes.

Distance of hydrant from center of lot frontage \_\_\_\_\_ feet OK per plat letter \_\_\_\_\_

## Fire Flow Credit Checklist

### Table 17C.60-5 Fire Protection Credits

OPTIONS TO REDUCE FIRE FLOW <small>(CREDITS USED FOR SUBSTANTIAL ALTERATION SHALL BE APPLIED TO THE ENTIRE STRUCTURE)</small>	REDUCTION	PERCENTAGE OF ITEMS SELECTED
<b>Existing Hydrant</b> (min 750 gpm = 75% of 1,000 gpm)	___ % of required gpm	___ %
<b>Building less than 2,000 sq. ft. OR</b> <b>Building less than 3,600 sq. ft.</b>	45% <input type="checkbox"/> 25% <input type="checkbox"/>	___ %
<b>Accessory or Agricultural Structure less than 3,600 sq. ft. without habitable space</b>	40% <input type="checkbox"/>	___ %
<b>Accessory or Agricultural Structure less than 3,600 sq. ft. without habitable space without walls</b>	35% <input type="checkbox"/>	___ %
<b>30' Setback from Side and Rear Property Lines OR</b> <b>20' Setback from Side and Rear Property Lines</b>	20% <input type="checkbox"/> 15% <input type="checkbox"/>	___ %
<b>Class A or B Roof</b>	15% <input type="checkbox"/>	___ %
<b>100% Approved Fiber Cement Siding or Stucco – (see list)</b>	20% <input type="checkbox"/>	___ %
<b>Modified 1-Hour Construction</b> Consists of type X drywall throughout the interior	15% <input type="checkbox"/>	___ %
<b>Kitchen Hood Suppression System (requires a separate permit) OR</b> <b>Kitchen Sprinkler Head (requires a separate permit)**</b>	25% <input type="checkbox"/> 25% <input type="checkbox"/>	___ %
<b>NFPA 13 D Sprinkler System (requires a separate permit)</b>	100% <input type="checkbox"/>	___ %
<b>Total of credit(s) + fire flow must be at least 100%</b>		___ %

1. In addition to meeting the code requirements of 17C.60.B and 17C.60.C, installation of an NFPA 13D fire sprinkler system is required. If the garage portion of the building exceeds 3,600 square feet it shall be compartmentalized using IBC 706 fire walls (except no openings are allowed) into fire areas of 3,600 square feet or less. The garage area shall meet fire protection credits, without credit for the 13D sprinkler system, when fire flow is not available. The home shall not be compartmentalized to get out of the fire sprinkler system requirement. Properties less than an acre in size are also required to provide fire flow through recognized fire hydrants in accordance with 17C.60.160.B and 17C.60.160.D.

2. Accessory buildings over 3,600 sq ft shall be a) compartmentalized using IBC 706 fire walls (except no openings are allowed) into fire areas of 3,600 square feet or less and meet fire protection credits when the property is over an acre in size or there is no fire flow available, b) comply with Table C.60-3 and meet hydrant spacing requirement, or c) install a full NFPA 13 sprinkler system.

\*\* Manufactured homes require a separate additional permit from Labor and Industries.

**I understand that the fire flow credits selected above are required fire protection features that shall be incorporated into the construction of this building and shall remain in place until such time as adequate fire flow is provided for this structure:**

\_\_\_\_\_  
(clearly print name)

\_\_\_\_\_  
(applicant or homeowner signature)