

#### **City of Mercer Island Development Services Group Fire Code Review and Inspection**

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# FIRE AREA SQUARE FOOTAGE CALCULATION

Project Type:\_\_\_\_\_ Address:\_\_\_\_

Architect:	
Owner:	
Gross floor area shall be that area in square feet under the roof line of the usable area whether heated or not, above and below grade. This includes unheated storage rooms or attachments including covered decks. If it is unincluded in the <b>Gross</b> square footage calculation. <b>This is not the same carea ratio.</b>	the garage and any sable space then it is
For all construction types, add all the interior wall measurements of each to basement and total that figure. As an example, a house that had a main fleet, a lower floor of 2304 square feet, a basement of usable space of 980 garage of 880 square feet and two covered decks of 440 square feet wouls ft. of: 6,603 square feet.	oor of 1999 square ) square feet, a
For commercial structures simply list the total square footage of each conincluding all floors.	struction type
Does this house have an existing fire sprinkler system?  YES	NO
Main Floor interior measurement	_ +
Lower Floor interior measurement	_ +
Other Floors interior measurement	_ +
Basement interior measurement	+
Attached Garage interior measurement	+
Covered Decks interior measurement	+
Other interior measurement	+
Total Gross Square Feet =	

### 2009 INTERNATIONAL FIRE CODE

# 901.4.3 Additional Fire Protection Systems.

In occupancies of a hazardous nature, where special hazards exist in addition to the normal hazards of the occupancy, or where the fire code official determines that access for fire apparatus is unduly difficult, the fire code official shall have the authority to require additional safeguards. Such safeguards include, but shall not be limited to, the following: automatic fire detection systems, fire alarm systems, automatic fire-extinguishing systems, standpipe systems, or portable or fixed extinguishers. Fire protection equipment required under this section shall be installed in accordance with this code and the applicable referenced standards.

## **Mercer Island City Code Title 17. Construction Codes**

Excerpt from Ordinance 04C-12

# FIRE SPRINKLER ORDINANCE

Effective July 1, 2004

#### 17.16. Automatic Fire-Sprinkler Systems

- 17.16.010 Applicability. For purposes of subsections 17.16.020 through 17.16.040, gross floor area shall be as defined in the International Fire Code (IFC) Section 1002.1 -Definitions for FLOOR AREA, GROSS.
- 17.16.020 New construction. An automatic fire-sprinkler system shall be installed in all newly constructed buildings, regardless of use, with a gross floor area of 5,000 or greater square feet.
- 17.16.030 New townhouses. An automatic fire-sprinkler system shall be installed in all newly constructed zero lot-line townhouses with an aggregate area of connected townhouses of 5,000 or greater square feet.
- 17.16.040 Additions and alterations to existing buildings. An automatic fire-sprinkler system shall be installed in additions and substantial alterations to existing buildings regardless of use when such addition or substantial alteration plus the existing gross floor area equals 5,000 or greater square feet. For purposes of this section, a substantial alteration shall be defined as an alteration that costs 50 percent or more of the current assessed value of the structure.

**Exception:** Additions of up to 750 square feet of gross floor area to one- and two-family dwellings and Group R-3 and U Occupancies are permitted without compliance with this section. This is a one-time exemption that must be recorded on the title.