

# CITY OF MERCER ISLAND

Fire Marshal's Office

3030 78<sup>th</sup> Ave SE | MERCER ISLAND, WA 98040

PHONE: 206.275.7966 | [www.mercergov.org](http://www.mercergov.org)



## RESIDENTIAL FIRE AREA SQUARE FOOTAGE CALCULATION

<b>Project Type:</b> <input type="checkbox"/> New Single Family <input type="checkbox"/> Alteration <input type="checkbox"/> Addition	
<b>Project Address:</b>	
<b>Contact Name:</b>	<b>Phone No.</b>
<b>Owner Name:</b>	

Gross floor area shall be that area in square feet under the roof line of the structure including all usable area whether heated or not, above and below grade. This includes the garage and any unheated storage rooms or attachments including covered decks. If it is *usable space*, then it is included in the **Gross** square footage calculation. *This is not the same calculation for floor area ratio.*

For all construction types, add all the interior wall measurements of each floor and the basement and total that figure.

### NEW CONSTRUCTION *(over for addition or alteration)*

Measurements	Square Footage
Main Floor interior	
Lower Floor Interior	
Other Floors interior	
Basement interior	
Attached Garage interior	
Covered Decks interior	
Other interior	
<b>TOTALS</b>	

## ADDITION or ALTERATION

Measurements	Existing Square Footage	Standardized Value	Final Square Footage
Main Floor interior		x \$162.95 = _____	
Lower Floor Interior		x \$162.95 = _____	
Other Floors interior		x \$162.95 = _____	
Basement interior		x \$162.95 = _____	
Attached Garage interior		x \$ 33.80 = _____	
Covered Decks interior		x \$ 33.80 = _____	
Other interior		x \$162.95 = _____	
<b>TOTALS</b>			

Construction Cost \$ \_\_\_\_\_

<b>Official Use</b>	
Verified Cost \$ _____	
Higher of Verified or Cost \$ _____ / Value _____	= % _____

Does this house have an existing fire sprinkler system?    Yes     No

Does this house have an existing fire alarm system?    Yes     No

Valuation Ratio

Exempt structure - detached garage or similar structure less than 750 sf.

Less than 10% (fire review not required)

10 - 49% (monitored Household Fire Alarm System per NFPA 72 Chapter 29, if fire deficiency)

50% or greater (substantial alteration)

### 2015 INTERNATIONAL FIRE CODE

#### 901.4.4 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.