# **CITY OF MERCER ISLAND**

Fire Marshal's Office 3030 78th Ave SE | MERCER ISLAND, WA 98040 PHONE: 206.275.7966 | www.mercerisland.gov | V.2021-1



# 2021 RESIDENTIAL FIRE AREA SQUARE FOOTAGE CALCULATION

<b>Project Type:</b> □ N	Tew Single Family □ Alteration	on 🗆 Addition Al	DU/DADU
Project Address:			
Contact Name:		Phone No.	
Owner Name:			
rooms or attachment footage calculation. For all construction t that figure.	or not, above and below grade. It is including covered decks. If it is the same calculation types, add all the interior wall many the same calculation was a same calculation	is usable space, then it is inc u for floor area ratio. easurements of each floor a	cluded in the <b>Gross</b> square
Good \$180 sq/ft	Very Good \$230 sq/ft	Very Good Custom \$280 sq/ft	Luxury Custom \$380 sq/ft
Select One:		* Hit enter when done	
NEW CONSTRUCT	Measurements Main Floor interior Lower Floor Interior Other Floors interior Basement interior Attached Garage interior	Square Footage	
	Covered Decks interior Other interior		

**TOTALS** 

## ADDITION or ALTERATION

Does this house have an existing Fire Sprinkler System? Yes $\square$ No $\square$ / NFPA 72 Alarm System Yes $\square$ No $\square$					
Measurements	<b>Existing Square</b>	Standardized	Final		
	Footage	Value	Square Footage		
Main Floor interior		X sq/ft			
Lower Floor Interior		X sq/ft			
Other Floors interior		X sq/ft			
Basement interior		X sq/ft			
Attached Garage interior		X sq/ft			
Covered Decks interior		X sq/ft			
Other interior		x sq/ft			
TOTALS					
Construction Cost \$					
	Officia	al Use			
Verified Cost \$	Officia	al Use			
	Officia	al Use			
Verified Cost \$	Officia	al Use	= %		
Verified Cost \$ Higher of Verified or Cost \$_ Ualuation Ratio	Officia	al Use			
Verified Cost \$ Higher of Verified or Cost \$_ Ualuation Ratio	Officia etached garage or simila	<b>al Use</b> / Value			
Verified Cost \$  Higher of Verified or Cost \$  Valuation Ratio  Exempt structure - do  Less than 10% (fire re	Officia etached garage or simila view not required)	<b>al Use</b> / Value	f.		

#### 2015 INT'L 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.

### 2015 INT'L RESIDENTIAL CODE

**AV107.1 Fire Sprinklers.** An approved automatic fire sprinkler system shall be installed in new one-family and two-family dwellings and townhouses in accordance with Appendix Q.

AV107.2 Fire Sprinklers in Existing Buildings. An approved automatic fire sprinkler system shall be installed throughout the residence in existing one-family and two-family dwellings (and townhouses) in accordance with Appendix Q when undergoing a remodel or addition when the construction value of all additions, alterations or repairs performed within

a sixty-month period exceeds 50% of the value of the residence. Value shall be determined by a method approved by the fire code official.

AV107.3 Household Fire Alarm System. An approved household fire alarm system shall be installed throughout the residence in existing one-family and two-family dwellings townhouses) that (and deficiencies in fire flow, hydrants or access. This system shall be installed in accordance with NFPA 72 Chapter 29 when undergoing a remodel or addition when the construction value of all additions, alterations or repairs performed within a sixty-month period is within 10% to 50% of the value of the residence. Value shall be determined by a method approved by the fire code official.