# **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



# 2022 RESIDENTIAL FIRE AREA SQUARE FOOTAGE CALCULATION

<b>Project Type:</b> □ N	ew Single Family   Alteration	on 🗆 Addition Al	DU/DADU
<b>Project Address:</b>			
Contact Name:		Phone No.	
Owner Name:			
For all construction t that figure.	This is not the same calculation types, add all the interior wall made all the interior wall made at the control of the contro	easurements of each floor a	nd the basement and tot
Good \$185.94 sq/ft	Very Good \$237.59 sq/ft	Very Good Custom \$289.24 sq/ft	Luxury Custom \$392.54 sq/ft
Select One:		* Hit enter when done	
NEW CONSTRUCT	ΠΟΝ (over for addition or alt  Measurements	eration) Square Footage	
•	Main Floor interior	Square rootage	
	Lower Floor Interior		
	Other Floors interior		
	Basement interior		
	Attached Garage interior		
	Covered Decks interior		
	Other interior		

**TOTALS** 

## ADDITION or ALTERATION

Does this house have an existing			
Measurements	Existing Square	Standardized	Final
25.5	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 \$			
Construction Cost \$	Officia		
Construction Cost \$  Verified Cost \$	Officia	ıl Use	
	Officia	ıl Use	= %
Verified Cost \$	Officia	ıl Use	= %
Verified Cost \$ Higher of Verified or Cost \$_ Ualuation Ratio	Officia	ıl Use	
Verified Cost \$ Higher of Verified or Cost \$_ Valuation Ratio	Officia etached garage or simila	l Use  / 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)	l Use  / Value	f.

#### 2018 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.

### 2018 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.