# **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



# RESIDENTIAL FIRE AREA SQUARE FOOTAGE CALCULATION

Γ= · · · · · · · · · · · · · · · · · · ·				
Project Type: □ N	Iew Single Family $\Box$ Altera	ation $\square$ Addition A	ADU/DADU	
Project Address:				
Contact Name:		Phone No.		
Owner Name:				
rooms or attachment footage calculation. For all construction t that figure.	I or not, above and below grades including covered decks. If This is not the same calculation types, add all the interior wall ALUATION TYPE (verified	it is <i>usable space</i> , then it is intion for floor area ratio.  measurements of each floor a	cluded in the <b>Gross</b> squar	
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	ΓΙΟΝ (over for addition or a  Measurement  Main Floor interio	ts Square Footag	e	

Other Floors interior
Basement interior

Other interior **TOTALS** 

Attached Garage interior Covered Decks interior

Updated 07/2022

## ADDITION or ALTERATION

Measurements	Existing Square Footage	Standardized Value	Final 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		χ sq/ft	
TOTALS			
Construction Cost \$	Officia		
Construction Cost \$  Verified Cost \$	Officia	1 Use	
	Officia	l Use	
Verified Cost \$	Officia	l Use	= %
Verified Cost \$ Higher of Verified or Cost \$_ Valuation Ratio	Officia	l Use	
Verified Cost \$ Higher of Verified or Cost \$_ Valuation Ratio	Officia / rtached garage or similar	<b>l Use</b> / Value	
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure - de Less than 10% (fire re	Official Ptached garage or similar view not required)	<b>l Use</b> / 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 (and townhouses) that 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.