# **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

Project Type:	: 🗷 New Single Family 🛛 Altera	tion $\Box$ Addition $A$	ADU/DADU	
Project Addre	ess:			
Contact Nam	e:	Phone No.		
Owner Name	<b>:</b> :			
For all construct that figure.	ntion. <i>This is not the same calculation</i> ction types, add all the interior wall not be a very constant of the	measurements of each floor	and the basement and to  Luxury Custom	
\$180 sq/ft	\$230 sq/ft	\$280 sq/ft	\$380 sq/ft	
	Select One:		* Hit enter when done	
NEW CONST	RUCTION (over for addition or a  Measurement  Main Floor interio  Lower Floor Interio  Other Floors interio  Basement interio	s Square Footag r r r	je	
	Attached Garage interio Covered Decks interio			

Other interior **TOTALS** 

## ADDITION or ALTERATION

Measurements	Existing Square Footage	Standardized Value	Final Square Footage
Main Floor interior	J	X sq/ft	1
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		
	Officia	1 Use	
Construction Cost \$  Verified Cost \$  Higher of Verified or Cost \$_	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 etached garage or similar	<b>1 Use</b> / Value	
Verified Cost \$  Higher of Verified or Cost \$  Valuation Ratio  Exempt structure - do  Less than 10% (fire re	Officia etached garage or similar view not required)	<b>1 Use</b> / Value	of.

#### 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.