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: □ N	Iew Single Family ☐ Alterati	on Addition A	DU/DADU
Project Address:			
Contact Name:		Phone No.	
Owner Name:			
footage calculation. For all construction that figure.	ts including covered decks. If it This is not the same calculation types, add all the interior wall many fall of ALUATION TYPE (verified verified v	n for floor area ratio. neasurements of each floor a	_
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 CONSTRUC	TION (over for addition or al- Measurements Main Floor interior	teration) Square Footage	2
	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 Fire Sprinkler System ? Yes □ No □ / NFPA 72 Alarm System Yes □ No □					
Measurements	Existing Square	Standardized	Final		
	Footage	Value	Square Footage		
Main Floor interior		X sq/ft			
Lower Floor Interior		X sq/ft			
(Upper) 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					
Official Use					
Verified Cost \$					
Higher of Verified or Cost \$/ Value= %					
□ Valuation Ratio					
\square Exempt structure – detached garage or similar structure less than 750 sf.					
☐ Less than 10% (fire review not required)					
\square 10 – 49% (monitored Household Fire Alarm System per NFPA 72 Chapter 29, if fire deficiency)					
\square 50% or greater (substantial alteration)					

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.