

2020 RESIDENTIAL FIRE AREA SQUARE FOOTAGE CALCULATION

Project Type: New Single Fa	nily Alteration 🖌 Addition
Project Address: 5325 W Mercer Way	
Contact Name: Matthew Mawer	Phone No. (425) 417-7817
Owner Name: Girish Nair and Lisa Wendel	

Gross floor area shall be that area in square feet under the roof line of the structure including all usable area whether heated or not, above and below grade. This includes the garage and any unheated storage rooms or attachments including covered decks. If it is *usable space*, then it is included in the **Gross** square footage calculation. *This is not the same calculation for floor area ratio*.

For all construction types, add all the interior wall measurements of each floor and the basement and total that figure.

NEW CONSTRUCTION (over for addition or alteration)

✓ N/A	Measurements	Square Footage	
	Main Floor interior		
	Lower Floor Interior		
	Other Floors interior		
	Basement interior		
	Attached Garage interior		
	Covered Decks interior		
	Other interior		
	TOTALS	0.00	

ADDITION or ALTERATION

Measurements	Evisting Course] / Fire Al	L opp V	Final	
Measurements	Existing Square	Standardized Value		Added	· · · · · · · · · · · · · · · · · · ·	
	Footage			Footage	Square Footage	
Main Floor interior	3138	x \$177.76	\$ 557,810.88	171	3309	
Lower Floor Interior		X \$177.76	\$ 0.00		0	
Other Floors interior	507	x \$177.76	\$ 90,124.32		507	
Basement interior		x \$177.76	\$ 0.00		0	
Attached Garage interior	690	x \$36.88	\$ 25,447.20		690	
Covered Decks interior		x \$36.88	\$ 0.00		0	
Other interior		x \$177.76	\$ 0.00		0	
TOTALS	4,335.00	\$673,	382.40	171	4,506.00	
Construction Cost \$ <u>125,000.00</u>	Officia	al Use				
Construction Cost \$ <u>125,000.00</u> Verified Cost \$	Officia	al Use				
			\$673,38	2.40	_= %	
Verified Cost \$ Higher of Verified or Cost \$			\$673,38	2.40	_= %	
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio		/ Value			_= %	
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio		/ Value			_= %	
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure – d	etached garage or simila	/ Value			_= %	
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure – d Less than 10% (fire re	etached garage or simila eview not required)	/ Value	less than 75	0 sf.		
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure – d Less than 10% (fire re	etached garage or simila	/ Value	less than 75	0 sf.		
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure – d Less than 10% (fire re	etached garage or simila eview not required) Household Fire Alarm Sy	/ Value	less than 75	0 sf.		

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 have (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.