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

Project Type: New Single Family Alteration	Addition ADU/DADU
Project Address: 9004 SE 60th Street, Mercer Island, WA 98040	
Contact Name:	Phone No.
Phil Frisk	206.920.3554
Owner Name: Kent & Cindy Hu Yu	206.556.7173

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.

CONSTUCTION VALUATION TYPE (verified with permit application)

Good	Very C		Very Good Custom	Luxury Custom
\$185.94 sq/ft	\$237.59		\$289.24 sq/ft	\$392.54 sq/ft
	Select One:	Good (\$18	35.94) sq/ft	* Hit enter when done

NEW CONSTRUCTION (over for addition or alteration)

L	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	Existing Square	Yes No / NFPA 72 A Standardized	Final
	Footage	Value	Square Footage
Main Floor interior	2682	x \$ 185.94 sq/ft \$ 498,691.08	3040
Lower Floor Interior		x \$185.94 sq/ft \$0.00	
Other Floors interior		x \$185.94 sq/ft \$0.00	
Basement interior		x \$ 185.94 sq/ft \$ 0.00	
Attached Garage interior	357	x \$38.97 sq/ft \$13,912.29	565
Covered Decks interior	174	x \$38.97 sq/ft \$6,780.78	174
Other interior		x \$185.94 sq/ft \$0.00	
TOTALS	3,213.00	\$519,384.15	3,779.00
onstruction Cost \$ 180,000.00	Offici	ial Use	
'=	Offici	ial Use	
onstruction Cost \$ 180,000.00 Verified Cost \$ Higher of Verified or Cost \$		ial Use / Value <u>\$ 519,384.15</u>	_= %_0
onstruction Cost \$ 180,000.00 Verified Cost \$			_= %_0
onstruction Cost \$ 180,000.00 Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio			
Onstruction Cost \$_180,000.00 Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio	etached garage or simil	/ Value <u>\$ 519,384.15</u>	
Ponstruction Cost \$_180,000.00 Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure - de Less than 10% (fire re	etached garage or simil view not required)	/ Value <u>\$ 519,384.15</u>	: •

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.