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 Al	teration ADU/DADU
Project Address: 3719 82nd Ave SE Mercer Island, WA 98	040
Contact Name:	Phone No.
Mark J. VanVliet, Architect	(206) 794-2960
Owner Name:	
Rame Chitturi	(206) 432-1347
Gross floor area shall be that area in square fe	et 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

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	5.94) sq/ft	* Hit enter when done

NEW CONSTRUCTION (over for addition or alteration)

N/A	Measurements	Square Footage
	Main Floor interior	323
	Lower Floor Interior	159
	Other Floors interior	
	Basement interior	
	Attached Garage interior	
	Covered Decks interior	
	Other interior	
	TOTALS	482.00

ADDITION or ALTERATION

Does this house have an existing Measurements	Existing Square	Yes No ✓ / NFPA 72 A Standardized	Final
	Footage	Value	Square Footage
Main Floor interior	1507	x \$185.94 sq/ft \$280,211.58	1821
Lower Floor Interior	1434	x \$185.94 sq/ft \$266,637.96	1593
Other Floors interior		x \$185.94 sq/ft \$0.00	
Basement interior		x \$185.94 sq/ft \$0.00	
Attached Garage interior	387	x \$38.97 sq/ft \$15,081.39	387
Covered Decks interior	407	x \$ 38.97 sq/ft \$ 15,860.79	407
Other interior		x \$185.94 sq/ft \$0.00	
TOTALC	3,735.00	\$577,791.72	4,208.00
TOTALS = Construction Cost \$ 89,623.00	,	al Use	1
Eonstruction Cost \$ 89,623.00	,		
=	,		
Construction Cost \$ 89,623.00	Offici		_= %_0
Construction Cost \$ 89,623.00 Verified Cost \$	Offici	al Use	,
Construction Cost \$ 89,623.00 Verified Cost \$	Offici	al Use	,
Verified Cost \$_89,623.00 Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio	Offici	al Use _/ Value <u>\$ 577,791.72</u>	_= %_0
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure - de	Offici etached garage or simila	al Use	_= %_0
Construction Cost \$ 89,623.00 Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio	Offici etached garage or simila	al Use _/ Value <u>\$ 577,791.72</u>	_= %_0
Verified Cost \$ Higher of Verified or Cost \$ Valuation Ratio Exempt structure - de Less than 10% (fire re	Offici etached garage or simila view not required)	al Use _/ Value <u>\$ 577,791.72</u>	_= % <u>0</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.