



San Jose Fire Flow and Hydrant Policy

SJ Muni Code 17.12.460 - Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than four hundred feet (122 m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire chief. Exception: For Group R-3 and Group U occupancies equipped throughout with an approved automatic sprinkler system, the distance requirements may be modified by the fire chief.

NOTE: Mixed Construction Fire Flow is to be determined as directed by the State Fire Marshal Code Interpretation #11-015 published 12/19/2011.

Building Area (Square Feet)						Fire Flow (gpm) °x			CFC – Appendix C - Table C105.1			
Type IA & IB*	Type IIA & IIIA*	Type IV& VA*	Type IIB & IIIB*	Type VB*	Light Hazard Occ.+	Ordinary Groups 1 & 2 Hazard Occ.+	<ns> or Extra Hazard Groups 1 & 2 Occ.+</ns>	Flow Duration (hours) ^X	Min. # of Hydrants	Average Spacing between Hydrants in feet ¹ 2 3	Max. distance from any point on Street or Road Frontage to a Hydrant in	
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	1,500	1,500	2	1	500	250	
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,500	1,500	1,750	2	1	500	250	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	1,500	1,500	2,000	2	2	450	225	
38,701-48,300	21,801-24,200	12,901-17,400	9,801-12,600	6,201-7,700	1,500	1,688	2,250	2	2	450	225	
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7,701-9,400	1,500	1,875	2,500	2	3	450	225	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9,401-11,300	1,500	2,063	2,750	2	3	450	225	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	1,500	2,250	3,000	3	3	400	225	
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	1,625	2,438	3,250	3	3	400	225	
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	1,750	2,625	3,500	3	4	350	210	
112,701-128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	1,875	2,818	3,750	3	4	350	210	
128,701-145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	2,000	3,000	4,000	4	4	350	210	
145,901-164,200	82,101-92,400	52,501-59,100	37,901-42,700	23,301-26,300	2,150	3,188	4,250	4	4	350	210	
164,201-183,400	92,401-103,100	59,101-66,000	42,701-47,700	26,301-29,300	2,250	3,375	4,500	4	5	300	180	
183,401-203,700	103,101-114,600	66,001-73,300	47,701-53,000	29,301-32,600	2,375	3,563	4,750	4	5	300	180	
203,701-225,200	114,601-126,700	73,301-81,100	53,001-58,600	32,601-36,000	2,500	3,750	5,000	4	5	300	180	
225,201-247,700	126,701-139,400	81,101-89,200	58,601-65,400	36,001-39,600	2,625	3,938	5,250	4	5	300	180	
247,701-271,200	139,401-152,600	89,201-97,700	65,401-70,600	39,601-43,400	2,750	4,125	5,500	4	6	300	180	
271,201-295,900	152,601-166,500	97,701-106,500	70,601-77,000	43,401-47,400	2,875	4,313	5,750	4	6	300	180	
295,901-Greater	166,501-Greater	106,501-115,800	77,001-83,700	47,401-51,500	3,000	4,500	6,000	4	6	250	150	
cc	"	115,801-125,500	83,701-90,600	51,501-55,700	3,125	4,688	6,250	4	6	250	150	
cc	"	125,501-135,500	90,601-97,900	55,701-60,200	3,250	4,875	6,500	4	7	250	150	
cc	"	135,501-145,800	97,901-106,800	60,201-64,800	3,375	5,063	6,750	4	7	250	150	
"	"	145,801-156,700	106,801- 113,200	64,801-69,600	3,500	5,250	7,000	4	7	250	150	
"	"	156,701-167,900	113,201- 121,300	69,601-74,600	3,625	5,438	7,250	4	7	250	150	
"	cc	167,901-179,400	121,301- 129,600	74,601-79,800	3,750	5,625	7,500	4	8	200	120	
"	٠	179,401-191,400	129,601- 138,300	79,801-85,100	3,875	5,813	7,750	4	8	200	120	
"	"	191,401-Greater	138,301-Greater	85,101-Greater	4,000	6,000	8,000 or more.	4	9 e	200	120	

Occ. = Occupancy <NS> = Non-Sprinklered

The applicant has the option to apply for variance if the code requirements can not be met.

Phone: (408) 535-7750



^{*-} Types of construction are based upon the California Building Code. +- Types of Hazard are based upon NFPA 13.

O - Measured at 20 psi. See CFC Appendix III-A, Section 2

¹ - Reduce by 100 feet for dead-end streets or roads.

² Where streets are provided with median dividers which can be crossed by firefighters pulling hose lines, or arterial streets are provided with four or more traffic. lanes and have a traffic count of more than 30,000 vehicles per day, hydrant spacing shall average 500 feet on each side of the street and be arranged on an alternating basis up to a fire-flow requirement of 7,000 gallons per minute and 400 feet for higher fire-flow requirements.

³ - Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet to provide for transportation hazards.

^a - Reduce by 50 feet for dead-end streets or roads.

^e - One hydrant for each 1,000 gallons per minute or faction thereof above 8,000.

x - For one-and two-family dwellings; the minimum fire-flow and flow duration requirements for one-and two-family dwellings having a fire-flow calculation area that does not exceed 3,600 square feet shall be 1,000 gallons per minute for duration of 1 hour.