

TABLE B105.1(1)
REQUIRED FIRE-FLOW FOR ONE- AND TWO-FAMILY DWELLINGS, AND GROUP R-3 BUILDINGS

FIRE-FLOW CALCULATION AREA (square feet)	AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE-FLOW (gallons per minute)	FLOW DURATION (hours)
0-3,600	No automatic sprinkler system	1,000	1
3,601 and greater	No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2) at the required fire-flow rate
0-3,600	Section 903.3.1.3 of the <i>Los Angeles County Fire Code</i> or Section 313.3 of the <i>Los Angeles County Residential Code</i>	500	1/2
3,601 and greater	Section 903.3.1.3 of the <i>Los Angeles County Fire Code</i> or Section 313.3 of the <i>Los Angeles County Residential Code</i>	1/2 value in Table B105.1(2)	1

For SF: 1 square foot = 0.0929 m²; 1 gallon per minute = 3.785 L/m.

TABLE B105.1(2)
REFERENCE TABLE FOR TABLES B105.1(1) AND B105.2

FIRE-FLOW CALCULATION AREA (square feet)					FIRE-FLOW (gallons per minute) ^a	FLOW DURATION (hours)
Type IA and IB*	Type IIA and IIIA*	Type IV and V-A*	Type IIB and IIIB*	Type V-B*		
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	2
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,750	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	2,000	
38,701-48,300	21,801-24,200	12,901-17,400	9,801-12,600	6,201-7,700	2,250	
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7,701-9,400	2,500	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9,401-11,300	2,750	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	3,000	3
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	3,250	
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	3,500	
112,701-128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	3,750	
128,701-145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	4,000	
145,901-164,200	82,101-92,400	52,501-59,100	37,901-42,700	23,301-26,300	4,250	
164,201-183,400	92,401-103,100	59,101-66,000	42,701-47,700	26,301-29,300	4,500	4
183,401-203,700	103,101-114,600	66,001-73,300	47,701-53,000	29,301-32,600	4,750	
203,701-225,200	114,601-126,700	73,301-81,100	53,001-58,600	32,601-36,000	5,000	
225,201-247,700	126,701-139,400	81,101-89,200	58,601-65,400	36,001-39,600	5,250	
247,701-271,200	139,401-152,600	89,201-97,700	65,401-70,600	39,601-43,400	5,500	
271,201-295,900	152,601-166,500	97,701-106,500	70,601-77,000	43,401-47,400	5,750	
295,901-Greater	166,501-Greater	106,501-115,800	77,001-83,700	47,401-51,500	6,000	
—	—	115,801-125,500	83,701-90,600	51,501-55,700	6,250	
—	—	125,501-135,500	90,601-97,900	55,701-60,200	6,500	
—	—	135,501-145,800	97,901-106,800	60,201-64,800	6,750	
—	—	145,801-156,700	106,801-113,200	64,801-69,600	7,000	
—	—	156,701-167,900	113,201-121,300	69,601-74,600	7,250	
—	—	167,901-179,400	121,301-129,600	74,601-79,800	7,500	
—	—	179,401-191,400	129,601-138,300	79,801-85,100	7,750	
—	—	191,401-Greater	138,301-Greater	85,101-Greater	8,000	

For SF: 1 square foot = 0.0929 m²; 1 gallon per minute = 3.785 L/m; 1 pound per square inch = 6.895 kPa.

a. Types of construction are based on the *California Building Code*.

b. Measured at 20 psi residual pressure.

**TABLE B105.2
REQUIRED FIRE-FLOW FOR BUILDINGS OTHER THAN ONE- AND
TWO-FAMILY DWELLINGS, AND GROUP R-3 BUILDINGS**

AUTOMATIC SPRINKLER SYSTEM (Design Standard)	MINIMUM FIRE-FLOW (gallons per minute)	FLOW DURATION (hours)
No automatic sprinkler system	Value in Table B105.1(2)	Duration in Table B105.1(2)
Section 903.3.1.1 or 903.3.1.2 of the <i>Los Angeles County Fire Code</i>	50% of the value in Table B105.1(2) ^a	Duration in Table B105.1(2) at the reduced flow rate

For SI: 1 gallon per minute = 3.785 L/m.

a. The reduced fire flow shall be not less than 1,500 gallons per minute.

Type IB construction shall be the area of the three largest successive floors.

Exception: Fire-flow calculation area for open parking garages shall be determined by the area of the largest floor.

**SECTION B105
FIRE-FLOW REQUIREMENTS FOR BUILDINGS**

B105.1 One- and Two-Family Dwellings, and Group R-3 Buildings. The minimum fire-flow and flow duration requirements for one- and two-family dwellings, and Group R-3 buildings shall be as specified in Tables B105.1(1) and B105.1(2).

Exception: The minimum fire-flow for one- and two-family dwellings, and Group R-3 buildings located in a fire hazard zone shall not be less than 1,250 gallons (15,141.6 L/min) per minute.

B105.2 Buildings Other Than One- and Two-Family Dwellings, and Group R-3 Buildings. The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings, and Group R-3 buildings shall be as specified in Tables B105.2 and B105.1(2).

Exception: [SFM] Group B, S-2 and U occupancies having a floor area not exceeding 1,000 square feet, primarily constructed of noncombustible exterior walls with wood or steel roof framing, having a Class A roof assembly, with uses limited to the following or similar uses:

1. California State Parks buildings of an accessory nature (restrooms).

2. Safety roadside rest areas, (SRRA), public restrooms.
3. Truck inspection facilities, (TIF), CHP office space and vehicle inspection bays.
4. Sand/salt storage buildings, storage of sand and salt.

B105.3 Mobile Home Parks. The required fire-flow for mobile home parks shall be 1,250 gallons per minute (4731.765 L/min) (2,000 gallons (7570.824 L/min) per minute in the high fire hazard severity zones) for a duration of two hours and with public hydrant spacing of not more than 600 feet (182.88 m) apart. For recreational buildings located within a mobile home park, the fire-flow and duration shall be according to the fire-flow calculation area set forth in Table B105.1(2).

B105.4 Land Subdivision Projects. For the subdivision of undeveloped land for other than single-family dwellings, due to the undetermined building size and type of construction, the required fire-flow shall be 4,000 gallons per minute (15,141.6 L/min) for a duration of four hours with public hydrant spacing of 300 feet (91.44 m). The required fire-flow for the subdivision of land consisting of lots having existing structures shall be in accordance with Table B105.1(2) for fire-flow and duration.

**SECTION B106
REFERENCED STANDARDS**

ICC	IWUIC—15	International Wildland-Urban Interface Code	B103.3
NFPA	1-142—12	Standard on Water Supplies for Suburban and Rural Fire Fighting	B103.3