

Article 57 Capacity of water supply for the automatic sprinkler system shall conform to the following:

1. When using standard-response or quick-response enclosed type sprinkler heads, water supply shall be capable of providing steady supply for 20 minutes uninterrupted as per sprinkler quantity shown in the table below. However, when the actual number of sprinklers in a particular place is less than the number for the prescribed capacity of the water supply, the capacity of water supply may be calculated pursuant to the actual number of sprinklers used.

Different Places		Number of Sprinkler heads	
		Quick response	General Response
Structure above 11 levels, underground structure		12	15
Buildings $\leq$ 10 stories	Places for the use are prescribed in Article 12, Subparagraph 1, Item 4 and places for compound use are prescribed in Article 12, Subparagraph 1, Item 4.	12	15
	Basement levels	12	15
	Others	8	10
Auto-repair workshop, indoor parking lot and mechanical lift-type parking lot		15	
Elevated warehouse	Places for storing cotton, plastic, wooden products and other flammable objects	24	30
	Places for storing other objects	16	20

2. Where an open sprinkler is used, the following provisions shall be observed:
  - (1) For stage structures in places prescribed in Article 12, Subparagraph 1, Item 1 and assembly halls listed in Item 2 located inside buildings rising up to 10 floors (inclusive), capacity of water supply shall exceed an uninterrupted 20-minute discharge for all the sprinklers in the maximum discharge area.
  - (2) For stage structures in locations stated in Article 12, Subparagraph 1, Item 1 and assembly halls listed in Item 2 located inside buildings rising at least 11 floors, capacity of the water supply shall exceed an uninterrupted 20-minute discharge for all the sprinklers in the largest floor area of the building.
3. Where sidewall type sprinklers or sprinklers for small

compartments are used, water supply capacity shall exceed an uninterrupted 20-minute discharge to 8 sprinklers for stories rising up to 10 floors (inclusive) and 12 sprinklers for stories rising above the 11<sup>th</sup> floor.

4. Where fixed type sprinklers are used, water source capacity shall exceed an uninterrupted 20-minute discharge for all the sprinklers in the largest discharge area. Where turret type sprinklers are used, water source capacity shall exceed an uninterrupted 20-minute discharge to the sprinkler of the maximum discharge.

Where dry or pre-active flow detection device is used, 50% of the total number of sprinklers stated in the foregoing Paragraph shall be added.

In locations where sprinkler installation is not required, except under the circumstances provided in Article 49, Subparagraph 7 and Subparagraph 12, a supplementary hydrant shall be installed pursuant to the following regulations:

1. The horizontal distance between any point and the fire hose connector shall not exceed 15 meters. However, this is exempted for places equipped with automatic sprinkler systems complete with sprinklers.
2. Where a floor level is equipped with a supplementary hydrant and all of the supplementary hydrants may be used simultaneously, the discharge pressure of each nozzle shall be at least 2.5kg/cm<sup>2</sup> or 0.25 MPa; discharge flow shall be at least 60 L/min. However, where there are provided with more than two supplementary hydrants (the distance between two hose connectors of the supplementary hydrants exceeds 30 meters, the hydrant shall be counted as one), the calculation shall be based on using two hydrants simultaneously.
3. "Supplementary Hydrant" shall be labeled on the cover of the supplementary hydrant cabin; a red operation indicator shall be installed on the top of the cabin.
4. The nozzle shall be equipped with an easy-to-open/close device.
5. Switch Valve shall be installed at a height less than 1.5 meters (inclusive) from the floor.
6. The fire hose shall be easy to operate and easy to extend.
7. Piping shall be installed at the secondary side of the flow detection device on each floor.