

Table 9.7: Automatic Sprinkler System Requirements					
ITEMS	REQUIREMENTS				
14. SPRINKLER OPERATING TEMPERATURE	 i. The operating temperature of the proposed sprinklers shall be based on the maximum room temperature expected at the ceiling level at any time. Automatic sprinklers shall have their frame arms, deflector, coating material, or liquid bulb colored in accordance with the requirements of Table 9.7.C. ii. The maximum temperature of water in the sprinkler piping shall not exceed 37.8°C. iii. The minimum temperature of water in the sprinkler piping shall not drop below 4°C. iv. For the air-conditioned areas, the operating temperature of the sprinkler shall be 68°C. v. For the non air-conditioned areas, the operating temperature of the sprinkler shall be 79°C. 				

Table 9.7.C: Sprinkler Operating Temperature and Color Classification

MAXIMUM CEILING TEMPERATURE	TEMPERATURE RATING OF SPRINKLER HEAD	TEMPERATURE CLASSIFICATION	COLOUR CODE	GLASS BULB COLOURS
1. 38°C	57°C—77°C	Ordinary	Uncolored or Black	Orange or Red
2. 66°C	79°C—107°C	Intermediate	White	Yellow or Green
3. 107 ^o C	121°C—149°C	High	Blue	Blue
4. 149 ^o C	163°C—191°C	Extra High	Red	Purple
5. 191 ^o C	204°C—246°C	Very Extra High	Green	Black
6. 246 ^o C	260°C—302°C	Ultra High	Orange	Black
7. 329 ^o C	343°C	Ultra High	Orange	Black













APPROVAL MARKING



Figure 9.11.: Sprinkler Bulb Color codes and Marking for illustration

