

Table 8.3: Installation and Spacing of Spot Type Smoke Detection	
ITEMS	REQUIREMENTS
1. INSTALLATION AND SPACING OF SPOT TYPE SMOKE DETECTORS	 5. SLOPED CEILING, BEAMS RUNNING PARALLEL i. For sloped ceiling with beams running parallel up slope, the following shall apply. a. Spot-type detector(s) shall be located on the ceiling within beam pocket(s). b. The ceiling height shall be taken as the average height over slope. c. Spacing shall be measured along a horizontal projection of the ceiling. d. Smooth ceiling spacing shall be permitted within beam pocket(s) parallel to the beams. e. For beam depths less than or equal to 10% of the ceiling height (0.1 H), spot-type detectors shall be located with smooth ceiling spacing perpendicular to the beams. f. For beam depths greater than 10% of the ceiling height (0.1 H), the following shall apply for spacing perpendicular to the beams: 1. For beam spacing greater than or equal to 40% of the ceiling height (0.4 H), spot-type detectors shall be located in each beam pocket. 2. For beam spacing less than 40% of the ceiling height (0.4 H), spot-type detectors shall not be required in every beam pocket but shall be spaced not greater than 50 percent of smooth ceiling spacing. 6. SLOPED CEILING, BEAMS RUNNING PARPENDICULAR i. For sloping ceilings with beams running perpendicular across slope, the following shall apply: a. Spot-type detector(s) shall be located at the bottom of the beams. b. The ceiling height shall be taken as the average height over slope. c. Spacing shall be measured along a horizontal projection of the ceiling. d. Smooth ceiling spacing shall be permitted within beam pocket(s). e. For beam depths less than or equal to 10% of the ceiling height (0.1 H), spot-type detectors shall be located with smooth ceiling spacing. f. For beam depths greater than 10% of the ceiling height (0.4 H) and shall not extends the policities of the ceiling height (0.5 H).
	7. SLOPED CEILING, BEAM POCKETS FORMED BY INTERSECTING BEAMS
	 i. For sloped ceilings with beam pockets formed by intersecting beams, the following shall apply: a. Spot-type detector(s) shall be located at the bottom of the beams. b. The ceiling height shall be taken as the average height over slope. c. Spacing shall be measured along a horizontal projection of the ceiling. d. For beam depths less than or equal to 10% of the ceiling height (0.1 H), spot-type detectors shall be spaced with not more than three beams between detectors and shall not exceed smooth ceiling spacing. e. For beam depths greater than 10% of the ceiling height (0.1 H), spot-type detectors shall be spaced with not more than two beams between detectors, but shall not be required to be spaced closer than (0.4 H), and shall not exceed 50% of smooth ceiling spacing.