Table 8.7.: Installation and Spacing of Spot Type Heat Detection Systems

ITEMS	REQUIREMENTS
1. INSTALLATION AND SPACING OF SPOT TYPE HEAT DETECTORS	**5. CEILINGS WITH BEAM CONSTRUCTION** i. A ceiling shall be treated as a smooth ceiling if the beams project no more than 100 mm below the ceiling. ii. Where the beams project more than 100 mm below the ceiling, the spacing of spot-type heat detectors at right angles to the direction of beam travel shall be not more than two-thirds of the listed spacing (S). iii. Where the beams project more than 460 mm below the ceiling and are more than 2.4 m on center, each bay formed by the beams shall be treated as a separate pocket area. iv. Where beams are less than 300 mm in depth and less than 2.4 m on center, detectors shall be permitted to be installed on the bottom of beams. **6..SLOPED CEILINGS WITH PEAKS OR SHEDS** i. For a ceiling slope of less than 30 degrees, all detectors shall be spaced using the height at the peak. ii. All detectors, other than those located in the peak, shall be spaced using the average slope height or the height of the peak. iii. Spacing shall be measured along a horizontal projection of the ceiling in accordance with the type of ceiling construction. iv. A row of detectors shall first be located at or within 910 mm of the peak of the ceiling. v. Additional detectors shall be spaced ceiling slope degree. **7. HIGH CEILINGS** i. On ceilings 3 m to 9.1 m high, heat detector spacing shall be reduced in accordance with Table 8.7.a. prior to any additional reductions for beams, joists, or slope, where applicable.

Table 8.7.a.: Reduction in Heat Detector Spacing based on Ceiling Height

CEILING HEIGHT	MULTIPLY LISTED SPACING BY THIA FACTOR
1. 0 m—3 m	1.00
2. >3 m—3.7 m	0.91
3. >3.7 m—4.3 m	0.84
4. >4.3 m—4.9 m	0.77
5. >4.9 m—5.5 m	0.71
6. >5.5 m—6.1 m	0.64
7. >6.1 m—6.7 m	0.58
8. >6.7 m—7.3 m	0.52
9. >7.3 m—7.9 m	0.46
10. >7.9 m—8.5 m	0.40
11. >8.5 m—9.1 m	0.34