

## **6.6 Locations or conditions involving special consideration (supplementary protection)**

### **6.6.1 Roof spaces**

NOTE – Roof spaces shall mean all concealed spaces between ceilings and roofs measured between the underside of the outer-roof covering to the top of the lined ceiling.

**6.6.1.1** Roof spaces not exceeding 400 mm in depth need not be protected by sprinklers.

**6.6.1.2** Roof spaces exceeding 400 mm but not exceeding 800 mm in depth shall be protected by sprinklers installed on the basis of light hazard group in accordance with clause 10 of this standard, except that the sprinkler protection may be omitted where the space is subdivided by fire and draught stops at intervals not exceeding 15 m in each direction.

**6.6.1.3** Roof spaces exceeding 800 mm in depth shall be fully protected by sprinklers in accordance with the requirement for the particular hazard.

### **6.6.2 Concealed ceiling and floor spaces**

NOTE 1 – Ceiling and floor spaces shall mean all concealed spaces between floors (or concrete slab roofs and floor) measured between the underside of the floor (or concrete slab roof) to the top of the lined ceiling or between the top of the floor to the underside of the raised floor.

NOTE 2 – For waffle type concrete slabs not exceeding 1.5 m<sup>2</sup>, the depth may be measured from the soffit of the waffle beams to the top of the lined ceiling.

NOTE 3 – Air conditioning and mechanical ventilation ducts constructed in accordance with the requirements of SS CP 13 shall be deemed to be non-combustible.

**6.6.2.1** Concealed ceiling and floor spaces not exceeding 400 mm in depth need not be protected by sprinklers.

**6.6.2.2** Concealed ceiling and floor spaces exceeding 400 mm but not exceeding 800 mm in depth and not containing combustible materials need not be protected by sprinklers.

**6.6.2.3** Concealed ceiling and floor spaces exceeding 400 mm but not exceeding 800 mm in depth and containing combustible material shall be protected by sprinklers installed on the extended basis as specified in 6.6.1.2 except that the sprinkler protection may be omitted where the space is subdivided by fire and draught stops at intervals not exceeding 15 m in each direction.

NOTE – In the case of public buildings, except offices, all concealed ceiling spaces exceeding 400 mm but not exceeding 800 mm in depth, regardless of the nature of contents, shall be protected by sprinklers installed on the extended basis as specified in 6.6.1.2.

**6.6.2.4** Concealed ceiling and floor spaces exceeding 800 mm in depth not containing combustible materials shall be protected by sprinklers installed on the extended basis as specified in 6.6.1.2.

**6.6.2.5** Concealed ceiling and floor spaces exceeding 800 mm in depth containing combustible materials shall be fully protected by sprinklers in accordance with the requirement for the particular hazard.

**6.6.2.6** Piping shall be installed in accordance with the requirements of the particular hazard class.

### **6.6.3 Machinery pits and production lines**

Machinery pits and the underside of production lines, where waste may collect, shall be protected.