

7. Material Test Standards, Approval and registration.

7.1. Acceptable Test Standards and criteria

7.1.1. All the Devices, Controls, Wiring, Modules, Materials, Systems, Assemblies, equipment, Products, Components and Accessories, referred to in this chapter with respect to Life Safety, Fire Safety and Emergency Services shall be Listed, Approved and Registered by the Civil Defence Material Approval Department.

7.1.2. There is no year of edition mentioned against any test standards. It is the intent of Civil Defence to convey to the customers seeking laboratory tests and the test laboratories to follow the “LATEST EDITION OF THE TEST STANDARD, AS AND WHEN THEY ARE UPGRADED/REVISED/AMENDED, TO THE DATE”

7.1.3. Smoke Detectors

- i. FM3230, Approval standard for Smoke Actuated Detectors for automatic alarm signaling.
- ii. UL 268, Standard for Smoke Detectors for Fire Alarm Systems.
- iii. EN 54-7, Fire detection and fire alarm systems. Smoke detectors. Point detectors using scattered light, transmitted light or ionization.
- iv. EN 14604, Smoke alarm devices (Domestic)
- v. ISO7240-7, Fire detection and alarm systems -- Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization.
- vi. EN 54-12, Smoke detectors - Line detectors using a transmitted optical beam
- vii. ISO 7240-12, Smoke detectors - Line detectors using a transmitted optical beam

7.1.4. Heat Detectors

- i. UL 521, Standard for Heat Detectors for Fire Protective Signaling Systems.
- ii. FM 3210, Heat Detectors for Automatic Fire Alarm Signaling.
- iii. EN 54-5, Fire detection and fire alarm systems. Heat detectors. Point detectors
- iv. ISO 7240-5, Fire detection and alarm systems. Point-type heat detectors

7.1.5. Air Sampling Type Detectors

- i. EN 54-20, Fire detection and fire alarm systems. Aspirating smoke detectors
- ii. FM3230, Approval standard for Smoke Actuated Detectors for automatic alarm signaling

7.1.6. Flame Detectors

- i. FM 3260, Radiant Energy-Sensing Fire Detectors for Automatic Fire Alarm Signaling.
- ii. EN 54-10, Flame detectors - Point detectors
- iii. ISO 7240-10 - Flame detectors - Point detectors
- iv. BS ISO 19292, Ships and marine technology. Lifesaving and fire protection. Point-type resettable flame detectors for ships