

6. Smoke Control System Material Test Standards and Approval.

6.1. Acceptable Test Standards and criteria

- 6.1.1.** All the Materials, Systems, Assemblies, Control Systems, Ducts, Fans, Insulation, Pipes and fittings, equipment, Products and Accessories, referred to in this chapter shall be Listed, Approved and Registered by the Civil Defence Material Approval Department.
- 6.1.2.** There is no year of edition mentioned against any test standards. It is the intent of Civil Defence to invite 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.”
- 6.1.3. Smoke Damper (With 1.5 mm galvanized steel frame)**
- i.** ANSI/UL 555S, Standard for Smoke Dampers.
 - ii.** EN 12101-8: Smoke and heat control systems—Smoke control dampers.
 - iii.** ISO 21927-8: Smoke and heat control systems — Specification for smoke control dampers.
 - iv.** EN 1366-10 Fire resistance tests for service installations. Smoke control dampers.
- 6.1.4. Fire Damper (90 minutes and 3 hour fire rated with 1.2 mm galvanized steel frame)**
- i.** ANSI/UL 555, Standard for Fire Dampers.
 - ii.** EN 1366-2 Fire resistance tests for service installations. Fire dampers.
 - iii.** EN 13501-3: Fire classification of construction products and building elements - Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers
- 6.1.5. Combination (Fire/Smoke) Damper (90 minutes and 3 hour fire rated with 1.5 mm galvanized steel frame)**
- i.** ANSI/UL 555, Standard for Fire Dampers, and ANSI/UL 555S, Standard for Smoke Dampers.
 - ii.** EN 1366-2 Fire resistance tests for service installations. Fire dampers.
 - iii.** EN 1366-10 Fire resistance tests for service installations. Smoke control dampers.
 - iv.** EN 13501-3: Fire classification of construction products and building elements - Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers.