

6.1.12. Ducts for Smoke control systems (Type A, Rated for both fire outside and Type B, fire outside and inside, 1 hour and 2 hour fire rated, tested and approved for fire rating, stability, integrity and non combustible insulation.)

- i. BS 476, Part 24, Fire tests on building materials and structures. Method for determination of the fire resistance of ventilation ducts.
- ii. ISO 21927-7: Smoke and heat control systems—Smoke control Ducts.
- iii. Class 0 or Class 1 in accordance with ANSI/UL 181.
- iv. ASTM E2816-12: HVAC ducts fire resistance
- v. EN 1366-1: Fire resistance test for service installations. PART 1: DUCTS.
- vi. EN 1366-8: Fire resistance tests for service installations - Part 8: Smoke extraction ducts
- vii. UNE-EN 1366-9: Fire resistance tests for service installations - Part 9: Single compartment smoke extraction ducts
- viii. EN 13501-4: Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems.
- ix. EN 12101-7: Smoke and Heat control Systems. Smoke duct sections.

6.1.13. Duct and Pipe Insulation as assembly including Pipe and Duct insulation, coverings, linings fasteners, adhesives.

- i. NFPA 274– Standard test method to evaluate fire performance characteristics of pipe insulation (Pass with full acceptance criteria of NFPA 274)
- ii. FM 4924– Pipe and Duct Insulation

6.1.14. Air cleaners

- i. ANSI/UL 867 Standard for Electrostatic Air Cleaners.

6.1.15. Air Filters

- i. Class 1 or Class 2 in accordance with ANSI/UL 900.
- ii. ANSI/UL 867

6.1.16. Grease Filters

- i. UL 1046, Standard for Grease Filters for Exhaust Ducts.