

233346S01 - FLEXIBLE DUCTS

- 1.0 Flexible duct shall be a factory-fabricated assembly consisting of an all steel or aluminum material. Plastic with spiral wire flexible duct is not permitted.
- 2.0 All supply flexible duct shall be insulated with 1 1/2-inch blanket of glass wool with an outer moisture barrier. The insulation assembly shall have a flame spread of not more than 25 and a smoke development rate of not over 50.
- 3.0 Flexible duct shall be rated for 10 inches W.G. static pressure.
- 4.0 A single length of flexible duct shall not exceed 4'0".
- 5.0 The minimum bend radius shall be 1 1/2 times the duct diameter. The radius shall be measured to the inside edge of the flexible duct.
- 6.0 Total offset in any run of flexible duct shall not exceed 90 degrees.
- 7.0 Provide a minimum of one hanger of each run of flexible duct. The hanger must be strapped around the flexible duct and secured to the structure above. Hangers shall not be attached to other mechanical or electrical objects. Hangers may be attached to an approved trapeze. Ceiling grid shall not be used to fabricate a trapeze. Support hangers shall be installed horizontal. Screws shall not be used to penetrate the flexible duct to attach the hanger.
- 8.0 Flexible duct shall be secured to the rigid duct and appliance with a nylon adjustable, self-locking, strap and a minimum of three sheet metal screws. The flexible duct shall be sealed airtight at each connection with self-adhesive aluminum tape. Fiber or cloth duct tape is not permitted to seal rigid or flexible duct.
- 9.0 All flexible duct shall be pressure tested by a testing and balancing agency to ensure the installation is airtight.