



Submittal Form IAD Insulated Access Doors Hinged

DESCRIPTION

Periodic inspection and testing of fire and smoke dampers and detectors in ductwork is a standard safety procedure. Easy access to these devices as well as providing a means of removing dust accumulation can be provided by the installation of hinged access doors. These doors incorporate an integral frame which readily fastens to the duct work as well as a camlock latching system for easy entry.

RELATED NFPA 90A & 90B STANDARDS

2-1.4 Duct Access and Inspection Provisions.

2-1.4.1 A service opening or telescoping or removable duct section shall be provided in ducts adjacent to each fire door, fire damper, smoke damper and smoke detector. The opening shall be large enough to permit maintenance and resetting of the device.

2-1.4.1 Service openings, telescoping or removable duct sections shall be identified with letters no less than 1/2 in. (1.27 cm) in height to indicate the location of the fire protection device(s) within.

2-1.4.3 Horizontal ducts and plenums shall be provided with service openings (see 2-1.4.1) to facilitate cleaning the duct of accumulations of dust and combustible materials. Service openings shall be placed at approximately 20 ft. (6.1-m) intervals along the duct and at the base of each vertical riser.

Exception No. 1: Removable air outlet or air inlet devices of adequate size may be accepted in lieu of service openings.

Exception No. 2: Service openings may be omitted in supply ducts when the supply air has previously passed through air filters or water spray.

Exception No. 3: Service openings are not required when all the following conditions prevail:

(a) The occupancy does not produce combustible material such as dust, lint, greasy vapors, etc. Such occupancies include banks, office buildings, churches, hotels, and health care facilities (but not kitchens, service rooms, and manufacturing portions of such facilities).

(b) The air inlets are at least 7 ft. (2.13m) above the floor or are protected by corrosion-resistant metal screens of at least 14 mes, installed at the inlets so that they will not draw papers, refuse, cigarettes or other combustible solids into the return air duct.

(c) The minimum design velocity in the return duct from the particular occupancy is 1,000 ft/min. (508m/sec.).

SUGGESTED SPECIFICATIONS

Service openings shall be provided in ducts adjacent to each fire door, fire damper, smoke damper and smoke detector. Horizontal ducts and plenums shall be provided with service openings to facilitate cleaning the duct of accumulations of dust and combustible materials. Service openings shall be placed at approximately 20 foot intervals along the duct and at the base of each vertical riser. Service openings shall be sized _____ x _____ and shall incorporate access doors coded _____ as manufactured by Duro Dyne Corporation.



CONSTRUCTION

Door Frame: 24 ga. galvanized steel. Conforms to ASTM-A-591.

Door Face: 24 ga. galvanized steel. Conforms to ASTM-A-591.

Insulation: Fiberglass blanket

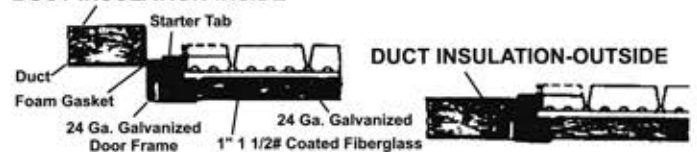
Seals: Door to Frame/Frame to Door-Neoprene gasket. Conforms to ASTM-D 1056-68. Temperature range -20°F to 225°F .26 K Factor.

Latches: Single Camlock action on all hinged doors 12" square and under. Dual latches on larger hinged sizes. Latches constructed of zinc plated cold rolled steel. Steel conforms to ASTM-A-366. Plating conforms to ASTM-A-164-55.

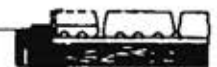
Manufactured to SMACNA standard or better; designed for installation in duct having up to 3" W.G.

ITEM#	CODE	DOOR SIZE	CUT HOLE IN DUCT
8230	IAD6x6	6" x 6"	4-3/4" x 4-3/4"
8168	IAD8x8	8" x 8"	6-3/4" x 6-3/4"
8169	IAD10x10	10" x 10"	8-3/4" x 8-3/4"
8170	IAD12x12	12" x 12"	10-3/4" x 10-3/4"
8171	IAD14x10	14" x 10"	12-3/4" x 8-3/4"
8167	IAD14x14	14" x 14"	12-3/4" x 12-3/4"
8172	IAD16x16	16" x 16"	14-3/4" x 14-3/4"
8173	IAD18x18	18" x 18"	16-3/4" x 16-3/4"
8174	IAD20x20	20" x 20"	18-3/4" x 18-3/4"
8175	IAD24x24	24" x 24"	22-3/4" x 22-3/4"

DUCT INSULATION-INSIDE



WITHOUT DUCT INSULATION



*Plexiglass Window Available Upon Request

Duro Dyne East Division, Bay Shore, NY
631-249-9000 Fax: 631-249-8346

Duro Dyne Midwest Division, Fairfield, OH
513-870-6000 Fax: 513-870-6005

Duro Dyne West Division, Fontana, CA
562-926-1774 Fax: 562-926-5778

Duro Dyne Canada, Lachine, Quebec, Canada
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