PART 1 - GENERAL

1.1 REFERENCES

.1 Health Canada/Workplace Hazardous Materials Information System (WHMIS).

.1 Material Safety Data Sheets (MSDS).

.2 Sheet Metal and Air Conditioning Contractors' National Association (SMACNA).

.1 SMACNA - HVAC Duct Construction Standards - Metal and Flexible, 95.

.3 National Fire Protection Association (NFPA).

.1 NFPA 90A-2009, Installation of Air Conditionning and Ventilating Systems.

.2 NFPA 90B-2009, Installation of Warm Air Heating and Air Conditionning Systems.

.4 Underwriter’s Laboratories of Canada (ULC).

.1 CAN/ULC-S110-M86(R2001), Fire Tests for Air Ducts.

.2 UL 181-1996, Factory Made Air Ducts and Connectors

1.2 SUBMITTALS

.1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.

.2 Product Data.

.1 Submit manufacturer's printed product literature, specifications, and data sheet. Indicate the following:

.1 Flexible connections.

.2 Duct access doors.

.3 Turning vanes.

.4 Instrument test ports.

.2 Submit Material Safety Data Sheets (MSDS).

.3 Test Reports: Submit independent laboratory test reports in order to certify that the products and materials satisfy the performance criteria.

.1 Technical data provided by the manufacturer must be reliable and confirmed by tests performed by the manufacturer or by independent laboratories in order to certify their compliance to the standards.

.4 Certificates: Submit documents signed by the manufacturer in order to certify that the products and materials satisfy the performance criteria.

.5 Instructions: Submit manufacturer's installation instructions.

.6 On-field Manufacturer Inspection: Submit reports for these inspections.

.7 Closeout Submittals: Submit maintenance data sheets and join them to the manual mentioned in section 01 78 00 - Closeout Submittals.

1.3 QUALITY ASSURANCE

.1 Health and Safety:

.1 Apply required measures in accordance with section 01 35 29.06 - Health and Safety Requirements.

1.4 DELIVERY, STORAGE AND HANDLING

.1 Waste Management and Disposal.

.1 Remove from site and dispose of packaging materials at appropriate recycling facilities.

.2 Collect and separate for disposal packaging material in appropriate on-site bins for recycling, in accordance with Waste Management Plan.

.3 Divert unused metal materials from landfill to recycling facility as approved by Departmental Representative.

PART 2 - PRODUCTS

2.1 GENERAL

.1 Accessories to be manufactured in accordance with SMACNA - HVAC Duct Construction Standards.

2.2 ACCESS DOORS IN DUCTS

.1 Non-Insulated Ducts: Sandwich construction of same material as duct, one sheet metal thickness heavier, minimum 0.6 mm thick complete with sheet metal angle frame.

.2 Insulated Ducts: Sandwich construction of same material as duct, one sheet metal thickness heavier, minimum 0.6 mm thick complete with sheet metal angle frame and 25 mm thick rigid glass fibre insulation.

.3 Gaskets: Neoprene, 20 mm x 10 mm.

.4 Hardware.

.1 Doors, up to 300 mm x 300 mm: Two locks, Duro Dyne SL-1, with chain.

.2 Doors, up to 301 mm x 450 mm: Four locks, Duro Dyne SL-1, with chain.

.3 Doors, from 451 to 1,000 mm height: One continuous piano type hinge and at least two locks, Duro Dyne SL-1.

.4 Doors, over 1,000 mm height: One continue piano type hinge and three handles operable from both inside and outside.

.5 Door holder: Device to keep doors in open position.

2.3 TURNING VANES

.1 Factory or shop fabricated single or double thickness, to recommendations of SMACNA and as indicated.

PART 3 - EXECUTION

3.1 INSTRUCTIONS DU FABRICANT

.1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheet.

3.2 INSTALLATION

.1 Access Door Duct.

.1 Size:

.1 610 x 1,520 mm for person size entry.

.2 460 x 460 mm for handhole.

.3 300 x 200 mm for viewing.

.4 As indicated.

.2 Locations:

.1 Devices requiring maintenance.

.2 Required by Code.

.3 Elsewhere as indicated.

.3 Handhole location:

.1 Located to give access to the smoke evacuation dampers and fire dampers

.2 Located to give access to balancing dampers.

.3 Located to give access to devices requiring periodical maintenance.

.4 Located as required by standards.

.5 Located where indicated.

.2 Turning vanes.

.1 Install in accordance with recommendations of SMACNA and as indicated.

3.3 CLEANING

.1 Once installation work is completed, clear the job site of all surplus material, waste, tools and safety barriers.

END OF SECTION