1. GENERAL

1.01 SECTION INCLUDES

.1 Fire rated and non-fire rated access doors and frame units.

1.02 RELATED REQUIREMENTS

.1 Section 20 05 00 – Common Work Results for Mechanical.

.2 Section 26 05 00 – Common Work Results for Electrical.

1.03 REFERENCES

.1 UL/ULC Fire Resistance Directory.

1.04 ACTION SUBMITTALS

.1 Submit in accordance with Section 01 33 00.

.2 Product Data:

.1 Submit manufacturer's instructions, printed product literature and data sheets for access door components and include product characteristics, performance criteria, physical size, finish, and limitations.

.3 Shop Drawings:

.1 Submit catalogue details for each type of door illustrating profiles, dimensions, and methods of assembly.

.2 If access door is to be installed in a fire rated assembly, shop drawing to indicate the rating.

.4 Before commencing installation of work, coordinate with other trades and prepare on a set of reflected ceiling plans and wall elevations, complete layouts of access doors. Submit these layouts for Consultant's review and show exact sizes and locations of such access doors. Locate and arrange the work to suit.

1.05 CLOSEOUT SUBMITTALS

.1 Submit in accordance with Section 01 78 00.

.2 Operation and Maintenance Data:

.1 Submit operation and maintenance data for cleaning and maintenance of finishes for incorporation into manual.

.2 Submit manufacturer's ordering information for additional keys.

.3 At time of instruction of Owner's operating staff, hand-over and obtain signed receipt for four sets of each type of key used to lock access doors in secure areas.

1.06 DELIVERY, STORAGE, AND HANDLING

.1 Deliver, store and handle materials in accordance with Section 01 61 00, and with manufacturer's written instructions.

.2 Delivery and acceptance requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.

.3 Store and protect access doors from nicks, scratches, and blemishes.

.4 Leave protective coatings in place until final cleaning of building.

2. PRODUCTS

2.01 MANUFACTURERS

.1 Acudor Acorn.

.2 Baird – ABCO.

.3 Mifab.

.4 Stelpro - Type 700.

.5 Watts Water Technologies (Canada) Inc.

2.02 ACCESS DOORS

.1 Construction:

.1 Access doors shall be flush to edge of frame, concealed continuous hinge with screwdriver operated cam latch.

.2 Steel, prime coated, flush mounted with 180 degree opening door, round safety corners, concealed hinges, plaster lock and anchor straps.

.3 Rounded safety corners, concealed hinges, screwdriver latch, anchor straps, able to open 180 degrees.

.4 Door construction to be minimum 14 gauge with 16 gauge frame.

.5 Fire-rated door construction to be a minimum 20 gauge insulated door with 16 gauge frame. Insulation thickness to provide required rating.

.6 Provide for plaster surfaces recessed 16 gauge prime painted steel door and welded metal lath, ready to take plaster.

.7 Provide for tiled surfaces, recessed type 16 gauge primed steel doors to suit type of tile used.

.8 Provide other access doors of welded 12 gauge steel, factory prime coated, flush type.

.2 Materials:

.1 Tiled or marble surfaces: stainless steel with [brushed satin] [polished] finish.

.2 Other areas: prime coated steel.

.3 Constructed of stainless steel in areas finished with tile or marble surfaces.

.4 Constructed of stainless steel with neoprene gasketed door in damp and high humidity areas.

.5 Latching:

.6 Fitted with screwdriver operated latches.

.7 In areas subject to security risks (Public Corridors, Public Washrooms, etc.), fitted with keyed cylinder locks with similar keys.

.3 Fire Ratings:

.1 When access doors are required to be located in fire rated walls, floor and ceilings, provide ULC tested and labelled units rated in accordance with the structures being penetrated i.e. 3/4 hour, 1 hour, 2 hour.

.4 Minimum dimensions (or as indicated otherwise on drawings):

.1 600 mm by 600 mm (24 in by 24 in) for personnel entry.

.2 450 mm by 450 mm (18 in by 18 in) for hand entry.

.3 300 mm by 300 mm (12 in by 12 in) for viewing only.

.4 Size doors to allow adequate operating/maintenance clearance for devices.

.5 Access doors shall be, wherever possible, of a standard size for each application.

.5 Example products based on Acudor Acorn:

.1 Concealed plaster: PS-5010.

.2 Concealed drywall: DW-5015.

.3 Existing drywall: DW-5040.

.4 Fire-rated: FW-5050/FB-5060 to match assembly.

2.03 EXCLUSIONS

.1 Lay-in tile ceilings: use unobtrusive identification locators.

3. EXECUTION

3.01 EXAMINATION

.1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for access door installation in accordance with manufacturer's written instructions.

.2 Lay-in type ceiling tiles, properly marked, with lamacoid label on adjacent ceiling carrying channel, may serve as access panels. Where ceiling tiles are required to be clipped, provide the appropriate access clips.

.3 Before commencing installation of work, coordinate with other trades and prepare on a set of reflected ceiling plans and wall elevations, complete layouts of access doors. Submit these layouts for Consultant's review and show exact sizes and locations of such access doors. Locate and arrange the work to suit.

.4 Confirm exact access door dimensions and locations with the Consultant prior to ordering and prior to commencing installation. Arrange work to suit.

3.02 INSTALLATION

.1 Access doors are to be installed by the trade responsible for the particular type of construction in which the doors are required.

.2 Provide access doors for new and existing concealed valves, dampers, junction boxes, equipment, etc.

.3 Provide access doors wherever equipment, valves, dampers, control devices, junction boxes, pull boxes, etc., are concealed behind walls or inaccessible ceilings.

.4 Provide access doors to give access to all valves, cleanouts, strainers, duct access doors, and other mechanical devices which may need maintenance or repair which are concealed in inaccessible construction.

.5 Access doors shall match wall and ceiling finishes.

.6 Access doors in gypsum ceiling shall be recessed type.

.7 Locate access doors within view of equipment and ensure equipment is accessible for operating, inspecting, adjusting, servicing without using special tools.

.8 Supply access doors, and make arrangements and pay for installation by trade in whose work they occur.

.9 Size and locate access doors in applied tile, block, or in glazed or unglazed structural tile to suit joint patterns.

.10 Access doors in ceilings, where acoustic tile is applied to plaster or gypsum board, to be dish type designed to receive tile insert.

.11 Access doors are not required in removable ceilings. Provide coloured marking devices after completion of ceilings, at one corner of each panel below point requiring access. Colour code markers to show service or device above.

.12 Provide access doors at locations where equipment requires inspection, service, maintenance, or adjustment, including by not limited to the following:

.1 Expansion joints.

.2 Plumbing cleanouts.

.3 Dampers.

.4 Fire dampers.

.5 Air valves.

.6 Air terminal units.

.7 Valves.

.8 Heating or cooling coils.

.9 Junction and pull boxes for power wiring or control wiring.

.10 Any concealed electrical devices.

3.03 PROTECTION

.1 Protect installed products and components from damage during construction.

.2 Repair damage to adjacent materials caused by access door installation.

End of Section