

SECTION 08 31 00
ACCESS DOORS AND PANELS

PART 1 - GENERAL

1.1 SUMMARY

- A. Fire resistive rated and non-rated access panels and frames, as specified under this Section, furnished by Sections requiring the same and installed under the following Sections:
 - 1. Section 04 20 00 – UNIT MASONRY: Installation of access panels into exterior masonry assemblies.
 - 2. Section 09 29 00 - GYPSUM BOARD: Installation of access panels into drywall assemblies.

1.2 RELATED REQUIREMENTS

- A. Section 09 29 00 - GYPSUM BOARD: Installation of access panels into drywall assemblies.
- B. Division 21 - FIRE SUPPRESSION: Furnishing access panels required for fire protection systems.
- C. Division 22 - PLUMBING: Furnishing access panels required for plumbing systems.
- D. Division 23 - HEATING, VENTILATING AND AIR CONDITIONING: Furnishing access panels required for heating/cooling systems.
- E. Division 26 - ELECTRICAL: Furnishing access panels required for electrical systems.

1.3 SUBMITTALS

- A. Submit the following under provisions of Section 01 33 00 - SUBMITTAL PROCEDURES:
 - 1. Literature: Manufacturer's product data sheets, specifications and installation instructions.
 - 2. Schedule: Submit Schedule of all access panels to be furnished hereunder, indicating locations for each size and type of access door.
 - a. The Contractor is responsible to ensure that all of the types/styles of panels and frames specified herein can be furnished by the manufacturer submitted.
 - b. Prior to submitting schedule, coordinate with the work of Division 21 - FIRE SUPPRESSION, Division 22 - PLUMBING, Division 23 - HEATING, VENTILATING AND AIR CONDITIONING and Division 26 - ELECTRICAL and meet with the Architect to determine exact quantities and locations required for the installation of access panels.
 - 3. Shop drawings: Large scale details of access doors, indicating all sizes, gages and thickness; provide complete installation details, coordinated to the specific receiving conditions.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Do not deliver access doors to the site, until all specified submittals have been submitted to, and approved by, the Architect.
- B. Store access door units inside, under cover, and in manner to keep them dry, protected from weather, direct sunlight, surface contamination, corrosion and damage from construction traffic and other causes.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturers: Subject to compliance with the requirements specified herein, manufacturers offering products which may be incorporated in the work include the following, or approved equal:
 - 1. Acudor Products Inc., Cedar Grove, NJ
 - 2. Karp Associates Inc., Maspeth, NY.
 - 3. Nystrom Products Company, Minneapolis, MN.
 - 4. Williams Brothers Corporation of America, Front Royal, VA.
- B. Single Source: All work of this Section shall be produced by a single manufacturer, unless otherwise approved by the Architect.

2.2 ACCESS PANELS - GENERAL

- A. Keying: All access panels shall be keyed alike; furnish Owner with 6 keys.
 - 1. Special consideration and attention shall be given to the fabrication lead time required, allow a minimum of 6 weeks after delivery of the required mortised locks to the access panel manufacturer.

2.3 ACCESS PANELS - FOR FIRE RESISTANCE RATED CONSTRUCTION

- A. For fire-resistance rated wall and ceiling surfaces: Standard flush panel door meeting the following requirements:
 - 1. Panel and frame rating: UL "B" label for 90 minutes.
 - 2. Frame type:
 - a. For gypsum board walls and ceilings: 16 gage galvanized bonderized steel frame, with 22 gage galvanized steel drywall bead.
 - 1) Acudor FW-5050DW
 - 2) Karp KRP-350FR series.
 - 3) Nystrom IW series.
 - 4) Williams WB-FR series.
 - 3. Door: Insulated Flush panel door as follows:
 - a. Typical wall types: Flush door, Sandwich construction with 2 inch thick mineral wool fiber insulation between two layers of 20 gage galvanized bonderized steel.
 - b. For ceramic tile walls only: Flush door, Sandwich construction with 2 inch thick mineral wool fiber insulation between two layers of 20 gage Type 304 stainless steel.
 - 4. Hinge: Flush continuous piano hinge with stainless steel pin.
 - 5. Closer: Spring closer.
 - 6. Lock: Latch bolt operated by recessed flush key.

- B. For fire-resistance rated wall surfaces: Medium security type, with flush panel door meeting the following requirements:
1. Panel and frame rating: UL “B” label for 90 minutes.
 2. Frame type:
 - a. For tiled walls: 14 gage Type 304 stainless steel flanged frame, with flange exposed to view 1 inch or less, equal to:
 - 1) Nystrom ST series.
 - b. For gypsum board and veneer plastered walls and ceilings: 14 gage galvanized bonderized steel frame, with 22 gage galvanized steel drywall bead.
 - 1) Nystrom SW series.
 3. Door: Insulated Flush panel door as follows:
 - a. Typical wall types: Flush door, Sandwich construction with 2 inch thick mineral wool fiber insulation between two layers of 14 gage galvanized bonderized steel.
 - b. For ceramic tile walls only: Flush door, Sandwich construction with 2 inch thick mineral wool fiber insulation between two layers of 14 gage Type 304 stainless steel.
 4. Hinge: Flush continuous piano hinge with stainless steel pin.
 5. Closer: Spring closer.
 6. Lock: Latch bolt operated by recessed flush key.

2.4 ACCESS PANELS - FOR NON- RATED CONSTRUCTION

- A. For non-rated wall and ceiling surfaces (service and non-public areas): Flush panel door type meeting the following requirements:
1. Frame type:
 - a. For masonry walls: 16 gage galvanized bonderized steel flanged frame, with flange exposed to view 1 inch or less.
 - 1) Acudor UF-5000 series.
 - 2) Karp DSC-214SM series.
 - 3) Nystrom NT series.
 - 4) Williams WB-GP series.
 - b. For gypsum board walls and ceilings: 16 gage galvanized bonderized steel frame, with 22 gage galvanized steel drywall bead.
 - 1) Acudor DW-5040 series.
 - 2) Karp KDW series.
 - 3) Nystrom NW series.
 - 4) Williams WB-PL series.
 2. Door: Flush panel door as follows:
 - a. Typical all wall types: 14 gage galvanized bonderized steel.
 3. Hinge:
 - a. Typical: Concealed spring hinge enabling door to open 175 degrees and permit removal of door from frame.
 - b. Panels greater than 24 by 36 inches: Flush continuous piano hinge with stainless steel pin.
 4. Lock: Latch bolt operated by recessed flush key.
- B. For non-rated gypsum board, walls and ceilings (public areas): Recessed door type

meeting the following requirements

1. Manufacturer's types:
 - a. Acudor DW-5015 series.
 - b. Karp:
 - 1) Walls: Karp RDW series.
 - 2) Ceilings: Karp KATR series.
 - c. Nystrom RW series.
 - d. Williams WB-DW series.
 2. Frame type: 16 gage galvanized bonderized steel frame, with 22 gage galvanized steel drywall bead.
 3. Door: Recessed 16 gage galvanized bonderized steel door. with 22 gage galvanized steel drywall bead.
 4. Hinge: Concealed pivot rod hinge.
 5. Lock: Latch bolt operated by recessed flush key.
- C. For non-rated wall and ceiling surfaces (security type panels, where indicated): Flush panel door type meeting the following requirements:
1. Frame type:
 - a. For tiled walls: 12 gage Type 304 stainless steel flanged frame, with flange exposed to view 1 inch or less, equal to:
 - 1) Acudor MS-7000 series.
 - 2) Karp DSB-123SD-MS series.
 - 3) Nystrom MT series.
 - 4) Williams WB series.
 - b. For gypsum board and veneer plastered walls and ceilings: 12 gage galvanized bonderized steel frame, with 22 gage galvanized steel drywall bead.
 - 1) Nystrom MW series.
 2. Door: Flush panel door as follows:
 - a. Typical all wall types, except tile: 12 gage galvanized bonderized steel
 - b. For tiled walls: 12 gage type 304 stainless steel.
 3. Hinge: Flush continuous piano hinge with stainless steel pin.
 4. Lock: Latch bolt operated by recessed flush key.

2.5 ACCESS PANELS - FOR EXTERIOR CONSTRUCTION

- A. For wall surfaces: Standard flush panel door meeting the following requirements:
1. Frame type:
 - a. For concrete walls: 0.080 inch 6063-T5 extruded aluminum flanged frame with flange exposed to view 1-1/4 inches or less, equal to:
 - 1) Nystrom XTA series.
 2. Door: Insulated flush panel door as follows:
 - a. Flush door, sandwich construction with 2 inch thick, 2-1/4 pound density foam insulation with a minimum R-value of 13 between two layers of 20 gage galvanized bonderized steel.
 3. Hinge: Flush continuous stainless steel piano hinge and pin.
 4. Handle: Non-locking dual acting die-cast lever handles.

- 5. Weatherstripping: Continuous extruded santoprene gasket.
- 6. Lock: Latch bolt operated by recessed flush key.

2.6 FACTORY FINISHING

- A. Panel assemblies fabricated from stainless steel: N°. 4 satin finish.
- B. Panel assemblies fabricated from galvanized bonderized steel: Baked on rust inhibitive gray primer finish.
- C. Panel assemblies fabricated from cold rolled steel: Phosphate dipped with baked on rust inhibitive gray primer finish.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Inspect all surfaces and verify that they are in proper condition to receive the work of this Section. Verify that prepared openings are ready to receive the work of this Section and opening dimensions are as indicated on the shop drawings. Verify that all blocking is set in place and secure.
- B. Beginning of installation means acceptance of project conditions.

3.2 INSTALLATION

- A. Install access panels in accordance with manufacturer's instructions and direction from authorities having jurisdiction. Install miscellaneous specialties absolutely level and in true line, with units securely anchored to the surrounding construction.
- B. Test each door and latching device, and make adjustments required to ensure a bind-free operation and proper latching.

END OF SECTION