

SECTION 08310 ACCESS PANELS

PART 1: GENERAL

1.01 RELATED DOCUMENTS

Drawings and general provisions of the contract, including supplementary conditions and Division 1 specification sections, apply to this section.

1.02 SUMMARY

- A. Section includes: access panels for the following types of installations:
 - Wall** access panels
 - Ceiling** access panels
 - Fire Rated** access panels for walls and ceilings

1.03 RELATED SECTIONS:

Verify specification sections

- A. Section 07720 "Roof Accessories" for roof hatches and automatic smoke vents.
- B. Section 08000 "Door Hardware" for mortise cylinder lock.
- C. Section 08311 "Floor Hatches" for load bearing floor doors.
- D. Section 15000 "Duct Accessories" for duct access doors.

1.04 REFERENCES

- A. Insulated fire rated units for **walls** shall bear the Intertek/Warnock Hersey and/or Underwriters Laboratories, Inc. 1-1/2 hour "B" label with 250-temperature rise.
- B. Uninsulated fire rated units for **walls only** shall bear the Underwriters Laboratories, Inc. label for 1-1/2 hour "B" label with NO temperature rise.
- C. Fire rated units for **ceilings** shall bear the 1-hour combustible construction, 3-hour non-combustible construction label by Intertek/Warnock Hersey.

1.05 SUBMITTALS

- A. General: In accordance with conditions of Division 1 specifications.
 - 1. Shop drawings.
 - 2. Manufacturer's literature and data.

1.06 QUALITY ASSURANCE

- A. Provide all access panels for the project by the same source and the same manufacturer.
- B. Fire Rated door assemblies that comply with NFPA 80 and are labeled by Underwriters Laboratories, Intertek/Warnock Hersey or other testing facilities acceptable to authorities having jurisdiction.
- C. Obtain design professional's approval of sizes that may vary slightly from those indicated when they are not in accordance to manufacturer's standards.

1.07 COORDINATION

The paragraphs below are optional but help to determine specific responsibility for access panels.

- A. Determine specific locations and sizes for access panels needed to gain access to concealed equipment and indicate on schedule specified under "submittals" article.

- B. Access panels to gain access to equipment specified in Division 15 or 16 and where panels are not shown on drawings are to be provided by applicable subcontractor and in compliance with requirements listed in this section.

1.08 DELIVERY, STORAGE AND HANDLING

- A. Package and ship in accordance to manufacturer's recommendations.
- B. Store in compliance to manufacturer's instructions.
 - 1. Store in dry area out of direct sunlight.

PART 2: PRODUCTS

2.01 MANUFACTURER

- A. Nystrom Building Products
1701 Madison Street NE
Minneapolis, MN 55413-1400
Toll Free Specification Hotline: 800-237-1579
Toll Free Ordering Info: 800-781-7850
Toll Free Fax: 800-317-8770
Direct Phone: 612-781-7850
Direct Fax: 612-781-1363
E-Mail: info@nystrom.com
Internet: www.nystrom.com

2.02 MATERIALS

- A. Commercial quality, cold steel sheet with baked on rust inhibitive gray primer.
- B. Galvanized bonderized steel with baked on rust inhibitive gray primer.
- C. Type #304 stainless steel with #4 satin polish finish.

2.03 ACCESS PANELS

- A. Non rated flush access doors, **Nystrom N series**
 - 1. **Door:** Fabricate from 14-gauge cold rolled sheet steel.
 - 2. **Frame:** Fabricate from 16-gauge cold rolled sheet steel. Provide 1/4" mounting holes.
 - NT** - All surfaces - 1" flange at perimeter.
 - NW** - Wallboard surfaces – 22-gauge galvanized drywall bead at perimeter.
 - NP** - Plaster surfaces – 22-gauge galvanized plaster bead at perimeter.
 - 3. **Hinge:**
 - NT** – Concealed pin type, spring loaded to allow for door removal, set to open 175 degrees.
 - NW & NP** – Concealed continuous piano hinge.
 - 4. **Latching/Locking Devices:** Screwdriver cam latch - standard.
OPTIONS:
 - a) Key operated cylinder lock with two (2) keys per lock, keyed alike.
 - b) Mortise cylinder preparation to receive 1 1/8" mortise cylinder lock. Lock provided by - as specified in Division 8 section "Door Hardware".
 - c) Other options as specified.
 - 5. **Finish:** Phosphate dipped with factory applied prime coat.
OPTIONS:
 - a) Galvanized bonderized steel.
 - b) Type #304 stainless steel with #4 satin polish.
- B. Insulated fire rated access panels for walls and ceilings, **Nystrom I series**

1. **Door:** Fabricate from 20-gauge cold rolled sheet steel, insulated sandwich type construction.
 2. **Frame:** Fabricate from 16-gauge cold rolled steel of configuration to suit material application.
 - IT** - All surfaces - 1" flange at perimeter.
 - IW** - Wallboard surfaces - 22-gauge galvanized drywall bead at perimeter.
 - IP** - Plaster surfaces - 22-gauge galvanized plaster bead at perimeter.
 3. **Hinge:** Flush continuous piano type on model IT. Concealed pin hinge on style IW and IP.
 4. **Latching/Locking mechanism:** Knurled knob/flush key operated latch bolt - standard.
- OPTIONS:**
- a) Mortise cylinder preparation to receive 1 1/8" mortise cylinder lock. Lock provided by - as specified in Division 8 section "Door Hardware".
 - b) Other options as specified.
5. **Finish:** Phosphate dipped with factory applied prime coat.
- OPTIONS:**
- a) Galvanized bonderized steel.
 - b) Type #304 stainless steel with #4 satin polish.
6. **Insulation:** 2" thick fire rated mineral fiber.
 7. **Automatic closure device:** Integral automatic spring closure device for each door.
 8. **Interior latch release:** Mechanism to allow for panel to open from interior side - standard on panels 18" and larger (safety feature).

C. Uninsulated access panels for **walls only, Nystrom U series**

1. **Door:** Fabricate from 14-gauge cold rolled sheet steel.
 2. **Frame:** Fabricate from 16-gauge cold rolled sheet steel of configuration to suit material application.
 - UT** - All surfaces - 1" flange at perimeter.
 - UW** - Wallboard surfaces - 22-gauge galvanized drywall bead at perimeter.
 - UP** - Plaster surfaces - 22-gauge galvanized plaster bead at perimeter.
- OPTIONS:**
- a) Galvanized bonderized steel.
 - b) Type #304 stainless steel.
3. **Hinge:** Flush continuous piano type.
 4. **Latching/Locking mechanism:** Knurled knob/flush key operated latch bolt - standard.
- OPTIONS:**
- a) Mortise cylinder preparation to receive 1-1/8" mortise cylinder lock. Lock provided by - as specified in Division 8 section "Door Hardware".
 - b) Other options as specified.
5. **Finish:** Phosphate dipped with factory applied prime coat.
- OPTIONS:**
- a) Galvanized bonderized steel.
 - b) Type #304 stainless steel with #4 satin polish.
6. **Automatic closure device:** Integral automatic spring closure device for each door.
 7. **Interior release:** Mechanism to allow for panel to open from interior side - standard on panels 18" and larger (safety feature).

D. Recessed access panels, **Nystrom R series**

1. **Door:** Fabricate from 16-gauge cold rolled sheet steel recessed 5/8" for in-fill of material.
2. **Frame:** Fabricate from 16-gauge cold rolled sheet steel of configuration to suit material application.
 - RW-** Wallboard surfaces – 22-gauge galvanized drywall bead at perimeter.
 - RP-** Plaster surfaces – 22-gauge galvanized plaster bead at perimeter.
 - RA -** Acoustical surfaces - no surface frame.
3. **Hinge:** Concealed pivoting rod.
 - a) Key operated cylinder lock with two (2) keys per lock, keyed alike.
 - b) Mortise cylinder preparation to receive special 2" mortise cylinder lock. Lock provided by - as specified in Division 8 section "Door Hardware".
 - c) Other options as specified.
4. **Finish:** Phosphate dipped with factory applied prime coat.

E. Security, insulated fire rated access panels, **Nystrom S series**

1. **Door:** Fabricate from 14-gauge cold rolled sheet steel, insulated sandwich type construction.
 2. **Frame:** Fabricate from 16-gauge cold rolled sheet steel of configuration to suit material application.
 - ST-** All surfaces - 1" flange at perimeter.
 - SW-** Wallboard surfaces – 22-gauge galvanized drywall bead at perimeter.
 - SP-** Plaster surfaces – 22-gauge galvanized plaster bead at perimeter.
- OPTIONS:**
- a) Galvanized bonderized steel.
 - b) Type #304 stainless steel.
3. **Hinge:** Concealed pin type for concealed frame. Flush continuous piano type for exposed frame and on panels larger than 36".
 4. **Latching/Locking mechanism:** Mortise cylinder preparation to receive 1-1/8" mortise cylinder lock. Lock provided by - as specified in Division 8 section "Door Hardware".
- OPTIONS:**
- a) Detention deadbolt lock preparation. Lock provided by - as specified in Division 8 section "Door Hardware".
 - b) Other options as specified.

5. **Finish:** Phosphate dipped with factory applied prime coat.

OPTIONS:

- a) Galvanized bonderized steel.
 - b) Type #304 stainless steel with #4 satin finish.
6. **Automatic closure device:** Integral automatic spring closure device for each door.
 7. **Interior latch release:** Mechanism to allow for panel to open from interior side on panels 18" and larger (safety feature).

F. Medium security access doors, **Nystrom M series**

1. **Door:** Fabricate from 12-gauge cold rolled sheet steel.
2. **Frame:** Fabricate from 12-gauge cold rolled sheet steel of configuration to suit material application.
 - MT-** All surfaces - 1" flange at perimeter.
 - MW-** Wallboard surfaces – 22-gauge galvanized drywall bead at perimeter.
 - MP-** Plaster surfaces – 22-gauge galvanized plaster bead at perimeter.
3. **Hinge:** Concealed continuous piano type.

4. **Latching/Locking Mechanism:** Pinned allen head security cam latches - standard.

OPTIONS:

- a) Pinned allen head security screws.
- b) Mortise cylinder preparation to receive 1-1/8" mortise cylinder lock. Lock provided by - as specified in Division 8 section "door hardware".
- c) Heavy-duty detention deadbolt lock preparation. Lock provided as specified in Division 8 "Door Hardware".
- d) Other options as specified.

5. **Finish:** Phosphate dipped with factory applied prime coat.

G. High security access panels, **Nystrom HS series**

1. **Door:** Fabricate from 10-gauge cold rolled steel.

2. **Frame:** Fabricate from 2"x 2"x 3/16" steel angle, masonry anchors welded to frame.

3. **Hinge:** Heavy-duty steel butt hinge welded to the door and frame (surface mounted).

OPTIONS:

- a) Continuous piano type.

4. **Latching/Locking Mechanism:** Pinned allen security screws – standard.

OPTIONS:

- a) Mortise cylinder preparation to receive 1-1/8" mortise cylinder lock. Lock provided by - as specified in Division 8 section "Door Hardware".
- b) Heavy-duty detention deadbolt lock preparation. Lock provided by - as specified in Division 8 section "Door Hardware".
- c) Other options as specified.

5. **Finish:** Phosphate dipped with factory applied prime coat.

H. Maximum security access panels, **Nystrom TS series**

1. **Door:** Fabricate from 7-gauge hot rolled steel.

2. **Frame:** Fabricate from 2"x 3"x 3/16" steel angle, masonry anchors welded to frame.

3. **Hinge:** Heavy-duty steel butt hinge welded to the door and frame (surface mounted).

OPTIONS:

- a) Continuous piano type.

4. **Latching/Locking Mechanism:** Heavy-duty detention lock preparation - standard. Lock provided by -as specified in Division 8 section "Door Hardware".

OPTIONS:

- a) Other options as specified.

5. **Finish:** Phosphate dipped with factory applied prime coat.

I. Exterior insulated access panel, **Nystrom XT series**

1. **Door:** Fabricate from 20-gauge galvanized steel, insulated sandwich type construction.

OPTIONS:

- a) Type #304 stainless steel.

2. **Frame:** Fabricate from 6063-T5 extruded aluminum.

3. **Hinge:** Stainless steel continuous piano type.

4. **Latching/Locking device:** Two dual acting handles.

OPTIONS:

- a) Lockable handle for exterior only.

5. **Flange:** .080 6063-T5 extruded aluminum.

6. **Finish:** Paint grip.

7. Insulation: 2" thick fiberglass.

8. Gasket: Extruded santoprene.

J. Special lightweight access panel, ***Nystrom LW series***

1. Door: Fabricate from 26-gauge pre-finished embossed galvanized steel.

OPTIONS:

a) .063 aluminum door panel

2. Frame: .045 6063-T5 extruded aluminum with rolled 1-5/16" flange

3. Hinge: Zinc plated continuous piano type.

OPTIONS:

a) Aluminum continuous piano type.

4. Latching/Locking device: Screwdriver cam latch – standard.

OPTIONS:

a) Key operated cylinder lock with two (2) keys per lock, keyed alike.

5. Insulation: ¾" polystyrene with 3.8 R-value at 75 degrees F temperature.

6. Finish: White embossed steel.

OPTIONS:

a) Mill finish with .063 aluminum panel insert.

2.04 FABRICATION

A. Manufacture each access panel assembly as an integral unit ready for installation.

B. Welded construction: Furnish with a sufficient quantity of 1/4" mounting holes to secure access panels to types of supports indicated.

C. Recessed panel: Form face of panel to provide specified recess for application of finish material. Reinforce panel as required to prevent buckling.

D. Furnish number of latches required to hold door in flush smooth pane when closed.

PART 3: EXECUTION

3.01 EXAMINATION

A. Verify conditions are ideal for suitable installation.

3.02 PREPARATION

A. Advise installers of work relating to access panel installation including rough opening dimensions, locations of supports, and anchoring methods. Coordinate delivery with other work to avoid delay.

3.03 INSTALLATION

A. Follow manufacturer's instructions for installing access panels.

B. Set frames to proper alignment with the wall or ceiling.

C. Position access panels for proper access to concealed equipment requiring access.

3.04 ADJUST AND CLEAN

A. Adjust panel after installation for proper operation.

B. Remove and replace panels or frames that are warped, bowed, or damaged.

END OF SECTION