SECTION 08 31 00

ACCESS DOORS, PANELS, AND HATCHES

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* MIFAB, Inc.; roof and scupper drain grates.  
This section is based on the products of MIFAB, Inc., which is located at:1321 W. 119th St.Chicago, IL 60643Toll Free Tel: 800-465-2736Tel: 773.341.3030Fax: 773-341-3047 Email: [request info (sales@mifab.com )](https://arcat.com/rfi?action=email&company=MIFAB%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(08310mfb)%253A%2520&coid=38108&spec=08310mfb&rep=&fax=773-341-3047%2520)  
Web: <http://www.mifab.com>   
 [ [Click Here](https://arcat.com/company/mifab-inc-38108) ] for additional information.  
Manufacturer of Commercial and Industrial Plumbing and Drainage Products  
Serving all of the USA, Canada, Australia, and the Middle East, MIFAB can provide you with the quality, engineered plumbing and drainage solutions you need. Innovative product designs save the installer time and material cost and provides the owner with higher quality cast stainless steel drains and cleanouts for the same cost as the industry standard nickel bronze.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Exterior access doors. (WID)
    2. Fire-rated access doors. (MFRU) (MPFR) (MPFR-DW)
    3. Recessed doors. (CAD) (CAD-DW) (CAD-FR) (CAD-PL)
    4. Security access doors. (MI-SAD)
    5. Universal access doors. (CAD-FL) (CAD-FL-PL) (MDW) (UA)
    6. Other access doors. (MI-FVP) (PA) (SL)
    7. Hatches; floor and roof. (FHA/FHG) (RHA/RHG)
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 05 50 00 - Metal Fabrications.
    2. Section 06 10 00 - Rough Carpentry.
    3. Section 09 24 13 - Adobe Finish Portland Cement Plaster.
    4. Section 09 23 13 - Acoustical Gypsum Plastering Gypsum Plaster.
    5. Section 09 90 00 - Painting and Coating.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American National Standards Institute (ANSI):
       1. ANSI-UL 10B - Standard for Fire Tests of Door Assemblies.
    2. Underwriters Laboratories (UL).
    3. Underwriters Laboratories Canada (ULc).
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern, and color.
    2. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
     2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
     3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
       1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
       3. Retain mock-up during construction as a standard for comparison with completed work.
       4. Do not alter or remove mock-up until work is completed or removal is authorized.
  1. PRE-INSTALLATION CONFERENCE
     1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
     2. Protect from damage due to weather, excessive temperature, and construction operations.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. WARRANTY
     1. Manufacturer's standard limited warranty unless indicated otherwise.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: MIFAB, Inc., which is located at: 1321 W. 119th St.; Chicago, IL 60643; ASD Toll Free Tel: 800-465-2736; Tel: 773.341.3030; Fax: 773-341-3047 ; Email: [request info (sales@mifab.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=MIFAB,+Inc.&coid=38108&rep=&fax=773-341-3047%20&message=RE:%2520Spec%2520Question%2520(08310mfb):%2520%2520&mf=); Web: <http://www.mifab.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs: coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. EXTERIOR ACCESS DOORS
     1. Product: WID Series Exterior Access Door/Walk-In Door. Provides convenient access to anywhere that requires protection against air leakage and or water penetration.

\*\* NOTE TO SPECIFIER \*\* Delete opening dimensions options not required.

* + - 1. Opening Dimensions: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm).
      2. Opening Dimensions: As detailed on the Drawings.
      3. Opening Dimensions: 12 x 12 inches (305 x 305 mm). Latches: 1.
      4. Opening Dimensions: 12 x 24 inches (305 x 610 mm). Latches: 2.
      5. Opening Dimensions: 14 x 14 inches (356 x 356 mm). Latches: 1.
      6. Opening Dimensions: 16 x 16 inches (406 x 406 mm). Latches: 1.
      7. Opening Dimensions: 16 x 20 inches (406 x 508 mm). Latches: 1.
      8. Opening Dimensions: 16 x 36 inches (406 x 914 mm). Latches: 1.
      9. Opening Dimensions: 18 x 18 inches (457 x 457 mm). Latches: 1.
      10. Opening Dimensions: 20 x 30 inches (508 x 762 mm). Latches: 2.
      11. Opening Dimensions: 22 x 30 inches (559 x 762 mm). Latches: 2.
      12. Opening Dimensions: 22 x 36 inches (559 x 914 mm). Latches: 2.
      13. Opening Dimensions: 24 x 24 inches (610 x 610 mm). Latches: 1.
      14. Opening Dimensions: 24 x 36 inches (610 x 914 mm). Latches: 2.
      15. Opening Dimensions: 30 x 30 inches (762 x 762 mm). Latches: 2.
      16. Opening Dimensions: 30 x 60 inches (762 x 1524 mm). Latches: 2.
      17. Opening Dimensions: 36 x 36 inches (914 x 914 mm). Latches: 2.
      18. Opening Dimensions: 36 x 48 inches (914 x 1219 mm). Latches: 2.
      19. Flanged Frame: 0.080 inch (2.0 mm) extruded aluminum.
      20. Door Panel Frame: 0.060 (1.5 mm) extruded aluminum.

\*\* NOTE TO SPECIFIER \*\* Delete door panels options not required.

* + - 1. Door Panels: 20 gage; 0.0359 inches (0.911 mm) satin coated steel.
      2. Door Panels: 20 gage; 0.0375 inches (0.9525 mm) stainless steel.
      3. Door Panels: 20 gage; 0.03196 inches (0.812 mm) aluminum.
      4. Finish: Mill.
      5. Insulation: 0.75 PCF fiberglass.

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - * 1. Thickness: 1 inch (25 mm).
        2. Thickness: 1-1/2 inches (38 mm).
        3. Thickness: 2 inches (51 mm).
      1. Handles: Dual Acting Handles for inside and outside operation.
      2. Gasket: Extruded EPDM draft seal gasket.
      3. Hinge: Zinc plated steel continuous.

\*\* NOTE TO SPECIFIER \*\* Viewport is optional. Delete viewport option not required.

* + - 1. Viewport: 9 x 9 inch (229x 229 mm).
      2. Viewport: 12 x 12 inch (305 x 305 mm).

\*\* NOTE TO SPECIFIER \*\* Delete door thickness, depth, and swing options not required.

* + - 1. Door Thickness: 1 inch (25 mm).
      2. Door Thickness: 1-1/2 inch ( mm).
      3. Depth: 2 inches (51 mm).
      4. Depth: 4 inches (102 mm).
      5. Swing: Out-Swing.
      6. Swing: In-Swing.
      7. Leakage Rating: 2.05 cu ft per min (0.001 cu m per sec), at a test pressure of 12.0 inches (305 mm) of water column.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. FIRE RATED ACCESS DOORS

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Product: MFRU Series Uninsulated Fire Rated Access Door. Uninsulated fire rated access door. Approved by Underwriters Laboratories Inc., for 1-1/2 hours, "B" label in walls.
       1. Standards Compliance: ANSI-UL 10B.
       2. Listed: UL and ULc.
       3. Fire Rating: Underwriters Laboratories "B" label. 1-1/2 hours for walls. Insulation not required.
       4. Overall Dimensions: Door size dimensions plus 2-1/4 inch ( mm).
       5. Wall Opening: Door size dimension plus 1/2 inch (13 mm).

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material: 16 gage; 0.0598 inches (1.518 mm) satin coat steel door and frame.
         1. Finish: Satin coat steel doors have a primed white finish.
      2. Material: 16 gage; 0.0625 inches (1.587 mm) Stainless Steel No. 304 stainless steel door and frame.
         1. Finish: Stainless steel doors have a No. 4 brush satin finish.
      3. Door: Flush to frame. Self-closing. Can be opened from the inside or back of the door with thumb turn latch.
      4. Frame: Four piece welded frame with masonry mounting straps.
      5. Hinge: Concealed pivot pins.
      6. Spring: Heavy duty.

\*\* NOTE TO SPECIFIER \*\* Delete latch option not required.

* + - 1. Latch: Standard - Flush mounted, interchangeable turn ring operator and key operator latch.
      2. Latch: Cylinder key lock. All cylinder key locks are keyed alike.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 8 x 8 inches (203 x 203 mm). Latches: 1.
         1. Rough Opening: 8-1/2 x 8-1/2 inches (216 x 216 mm).
      4. Door Size: 10 x 10 inches (254 x 254 mm). Latches: 1.
         1. Rough Opening: 10-1/2 x 10-1/2 inches (267 x 267 mm).
      5. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 12-1/2 inches (318 x 318 mm).
      6. Door Size: 12 x 18 inches (305 x 457 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 18-1/2 inches (318 x 470 mm).
      7. Door Size: 12 x 24 inches (305 x 610 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 24-1/2 inches (318 x 622 mm).
      8. Door Size: 14 x 14 inches (356 x 356 mm). Latches: 1.
         1. Rough Opening: 14-1/2 x 14-1/2 inches (368 x 368 mm).
      9. Door Size: 16 x 16 inches (406 x 406 mm). Latches: 1.
         1. Rough Opening: 16-1/2 x 16-1/2 inches (419 x 419 mm).
      10. Door Size: 18 x 18 inches (457 x 457 mm). Latches: 1.
          1. Rough Opening: 18-1/2 x 18-1/2 inches (470 x 470 mm).
      11. Door Size: 20 x 20 inches (508 x 508 mm). Latches: 1.
          1. Rough Opening: 20-1/2 x 20-1/2 inches (521 x 521 mm).
      12. Door Size: 22 x 22 inches (559 x 559 mm). Latches: 1.
          1. Rough Opening: 22-1/2 x 22-1/2 inches (572 x 572 mm)
      13. Door Size: 22 x 30 inches ( 559 x 762 mm). Latches: 1.
          1. Rough Opening: 22-1/2 x 30-1/2 inches (572 x 775 mm)
      14. Door Size: 24 x 24 inches (610 x 610 mm). Latches: 1.
          1. Rough Opening: 24-1/2 x 24-1/2 inches (622 x 622 mm).
      15. Door Size: 24 x 36 inches (610 x 914 mm). Latches: 2.
          1. Rough Opening: 24-1/2 x 36-1/2 inches (622 x 927 mm).
      16. Door Size: 24 x 48 inches (610 x 1219 mm). Latches: 2.
          1. Rough Opening: 24-1/2 x 48-1/2 inches (622 x 1232 mm).
      17. Door Size: 30 x 30 inches (762 x 762 mm). Latches: 2.
          1. Rough Opening: 30-1/2 x 30-1/2 inches (775 x 775 mm).
      18. Door Size: 32 x 32 inches (813 x 813 mm). Latches: 2.
          1. Rough Opening: 32-1/2 x 32-1/2 inches (826 x 826 mm).
      19. Door Size: 36 x 36 inches (914 x 914 mm). Latches: 2.
          1. Rough Opening: 36-1/2 x 36-1/2 inches (927 x 927 mm).
      20. Door Size: 36 x 48 inches (914 x 1219 mm). Latches: 2.
          1. Rough Opening: 36-1/2 x 48-1/2 inches (927 x 1232 mm).
    1. Product: MPFR Insulated Fire Rated Access Door: Approved by Underwriters Laboratories Inc., and Warnock Hersey. The same door can be used in walls and ceilings.
       1. Standards Compliance: ANSI-UL 10B.
       2. Listed: Ul and ULc.
       3. Fire Rating: Underwriters Laboratories "B" label. 1-1/2 hours for walls.
          1. Warnock Hersey:

Combustible Ceilings and Walls: 1 hour.

Non-Combustible Ceilings: 2 hours

Non-Combustible Walls: 3 hours.

* + - * 1. Ceiling Fire Ratings Sizes: Up to and including 24 x 36 inch (610 x 914) door size.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: 16 gage; 0.0598 inches (1.518 mm) satin coat steel front door with 20 gage; 0.0359 inches (0.911 mm) backliner and 16 gage satin coat steel frame.
         1. Finish: Satin coat steel doors have a primed white finish.
      2. Material: 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel front door with 20 gage; 0.0375 inch (0.9525 mm) backliner and 16 gage No. 304 stainless steel frame.
         1. Finish: Stainless steel doors have a No. 4 brush satin finish.
      3. Door: Flush to frame. Self-closing. Can be opened from the inside or back of the door with thumb turn latch.
      4. Frame: Four piece welded frame with masonry mounting straps.
      5. Hinge: Concealed pivot pins.
      6. Spring: Heavy duty.
         1. Additional spring added to doors greater than 14 x 14 inches (356 x 356 mm) for ceiling installation. Springs must be attached to the door to ensure that door will close when installed.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, interchangeable turn ring operator
      2. Latch: Cylinder key lock. All cylinder key locks are keyed alike.
      3. Insulation: Roxul Rockboard 80. 2 inch (50 mm) thick and fire retardant.
      4. Packaging: Individual pack.
      5. Overall Dimensions: Door size dimensions plus 2-5/8 inch (67 mm).
      6. Wall Opening: Door size dimension plus 1/2 inch (13 mm).

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 8 x 8 inches (203 x 203 mm). Latches: 1.
         1. Rough Opening: 8-1/2 x 8-1/2 inches (216 x 216 mm).
      4. Door Size: 10 x 10 inches (254 x 254 mm). Latches: 1.
         1. Rough Opening: 10-1/2 x 10-1/2 inches (267 x 267 mm).
      5. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 12-1/2 inches (318 x 318 mm).
      6. Door Size: 12 x 18 inches (305 x 457 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 18-1/2 inches (318 x 470 mm).
      7. Door Size: 12 x 24 inches (305 x 610 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 24-1/2 inches (318 x 622 mm).
      8. Door Size: 14 x 14 inches (356 x 356 mm). Latches: 1.
         1. Rough Opening: 14-1/2 x 14-1/2 inches (368 x 368 mm).
      9. Door Size: 16 x 16 inches (406 x 406 mm). Latches: 1.
         1. Rough Opening: 16-1/2 x 16-1/2 inches (419 x 419 mm).
      10. Door Size: 18 x 18 inches (457 x 457 mm). Latches: 1.
          1. Rough Opening: 18-1/2 x 18-1/2 inches (470 x 470 mm).
      11. Door Size: 20 x 20 inches (508 x 508 mm). Latches: 1.
          1. Rough Opening: 20-1/2 x 20-1/2 inches (521 x 521 mm).
      12. Door Size: 22 x 22 inches (559 x 559 mm). Latches: 1.
          1. Rough Opening: 22-1/2 x 22-1/2 inches (572 x 572 mm)
      13. Door Size: 22 x 30 inches ( 559 x 762 mm). Latches: 1.
          1. Rough Opening: 22-1/2 x 30-1/2 inches (572 x 775 mm)
      14. Door Size: 22 x 36 inches (559 x 914 mm). Latches: 2.
          1. Rough Opening: 22-1/2 x 36-1/2 inches (572 x 927 mm)
      15. Door Size: 24 x 24 inches (610 x 610 mm). Latches: 1.
          1. Rough Opening: 24-1/2 x 24-1/2 inches (622 x 622 mm).
      16. Door Size: 24 x 36 inches (610 x 914 mm). Latches: 2.
          1. Rough Opening: 24-1/2 x 36-1/2 inches (622 x 927 mm).
      17. Door Size: 24 x 48 inches (610 x 1219 mm). Latches: 2.
          1. Rough Opening: 24-1/2 x 48-1/2 inches (622 x 1232 mm).
      18. Door Size: 30 x 30 inches (762 x 762 mm). Latches: 2.
          1. Rough Opening: 30-1/2 x 30-1/2 inches (775 x 775 mm).
      19. Door Size: 32 x 32 inches (813 x 813 mm). Latches: 2.
          1. Rough Opening: 32-1/2 x 32-1/2 inches (826 x 826 mm).
      20. Door Size: 36 x 36 inches (914 x 914 mm). Latches: 2.
          1. Rough Opening: 36-1/2 x 36-1/2 inches (927 x 927 mm).
      21. Door Size: 36 x 48 inches (914 x 1219 mm). Latches: 2.
          1. Rough Opening: 36-1/2 x 48-1/2 inches (927 x 1232 mm).
    1. Product: MPFR-DW Insulated Fire Rated Access Door with drywall bead frame. Approved by Underwriters Laboratories Inc., and Warnock Hersey. The same door can be used in walls and ceilings.
       1. Standards Compliance: ANSI-UL 10B
       2. Listed: Ul and ULc
       3. Fire Rating: Underwriters Laboratories "B" label. 1-1/2 hours for walls.
          1. Warnock Hersey:

Combustible Ceilings and Walls: 1 hour.

Non-Combustible Ceilings: 2 hours

Non-Combustible Walls: 3 hours.

* + - * 1. Ceiling Fire Ratings Sizes: Up to and including 24 x 36 inch (610 x 914) door size.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: 16 gage; 0.0598 inches (1.518 mm) satin coat steel front door with 20 gage; 0.0359 inches (0.911 mm) backliner and 16 gage satin coat steel frame.
         1. Finish: Satin coat steel doors have a primed white finish.
      2. Material: 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel front door with 20 gage; 0.0375 inch (0.9525 mm) backliner and 16 gage No. 304 stainless steel frame.
         1. Finish: Stainless steel doors have a No. 4 brush satin finish.
      3. Door: Flush to frame. Self-closing. Can be opened from the inside or back of the door with thumb turn latch.
      4. Frame: Four piece welded frame with masonry mounting straps.
      5. Hinge: Concealed pivot pins.
      6. Spring: Heavy duty.
      7. Additional spring added to doors greater than 14 x 14 inches (356 x 356 mm) for ceiling installation. Springs must be attached to the door to ensure that door will close when installed.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, interchangeable turn ring operator.
      2. Latch: Cylinder key lock. All cylinder key locks are keyed alike.
      3. Insulation: Roxul Rockboard 80. 2 inch (50 mm) thick and fire retardant.
      4. Overall Dimensions: Door size dimensions plus 2-1/4 inch (57 mm).
         1. Drywall Tapping Bead: 1-1/8 inch (28 mm) with pre-punch mounting holes.
      5. Wall Opening: Door size dimension plus 1/2 inch (13 mm).

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 8 x 8 inches (203 x 203 mm). Latches: 1.
         1. Rough Opening: 8-1/2 x 8-1/2 inches (216 x 216 mm).
      4. Door Size: 10 x 10 inches (254 x 254 mm). Latches: 1.
         1. Rough Opening: 10-1/2 x 10-1/2 inches (267 x 267 mm).
      5. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 12-1/2 inches (318 x 318 mm).
      6. Door Size: 12 x 18 inches (305 x 457 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 18-1/2 inches (318 x 470 mm).
      7. Door Size: 12 x 24 inches (305 x 610 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 24-1/2 inches (318 x 622 mm).
      8. Door Size: 14 x 14 inches (356 x 356 mm). Latches: 1.
         1. Rough Opening: 14-1/2 x 14-1/2 inches (368 x 368 mm).
      9. Door Size: 16 x 16 inches (406 x 406 mm). Latches: 1.
         1. Rough Opening: 16-1/2 x 16-1/2 inches (419 x 419 mm).
      10. Door Size: 18 x 18 inches (457 x 457 mm). Latches: 1.
          1. Rough Opening: 18-1/2 x 18-1/2 inches (470 x 470 mm).
      11. Door Size: 20 x 20 inches (508 x 508 mm). Latches: 1.
          1. Rough Opening: 20-1/2 x 20-1/2 inches (521 x 521 mm).
      12. Door Size: 22 x 22 inches (559 x 559 mm). Latches: 1.
          1. Rough Opening: 22-1/2 x 22-1/2 inches (572 x 572 mm)
      13. Door Size: 22 x 30 inches ( 559 x 762 mm). Latches: 1.
          1. Rough Opening: 22-1/2 x 30-1/2 inches (572 x 775 mm)
      14. Door Size: 24 x 24 inches (610 x 610 mm). Latches: 1.
          1. Rough Opening: 24-1/2 x 24-1/2 inches (622 x 622 mm).
      15. Door Size: 24 x 36 inches (610 x 914 mm). Latches: 2.
          1. Rough Opening: 24-1/2 x 36-1/2 inches (622 x 927 mm).
      16. Door Size: 24 x 48 inches (610 x 1219 mm). Latches: 2.
          1. Rough Opening: 24-1/2 x 48-1/2 inches (622 x 1232 mm).
      17. Door Size: 30 x 30 inches (762 x 762 mm). Latches: 2.
          1. Rough Opening: 30-1/2 x 30-1/2 inches (775 x 775 mm).
      18. Door Size: 32 x 32 inches (813 x 813 mm). Latches: 2.
          1. Rough Opening: 32-1/2 x 32-1/2 inches (826 x 826 mm).
      19. Door Size: 36 x 36 inches (914 x 914 mm). Latches: 2.
          1. Rough Opening: 36-1/2 x 36-1/2 inches (927 x 927 mm).
      20. Door Size: 36 x 48 inches (914 x 1219 mm). Latches: 2.
          1. Rough Opening: 36-1/2 x 48-1/2 inches (927 x 1232 mm).

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. RECESSED DOORS

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Product: CAD Series Ceiling or Wall Access Door. For use in acoustical, drywall, or tiled surfaces. Only the thickness of the door and frame edges are exposed.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: 16 gage; 0.0598 inches (1.518 mm) satin coat steel door and frame.
         1. Finish: Primed white finish.
      2. Material: 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish No. 4 brush satin finish.
      3. Recessed Door: 5/8 inch (15 mm) deep door pan. Accepts tile, drywall, or other finishing materials.
      4. Frame: Flush to surface.
      5. Hinge: Concealed pivot pins.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key.
      3. Latch: Cylinder key. Cylinder key locks are keyed alike.
      4. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 8 x 8 inches (203 x 203 mm). Latches: 1.
         1. Rough Opening: 8-3/16 x 8-3/16 inches (208 x 208 mm).
      4. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 1.
         1. Rough Opening: 12-3/16 x 12-3/16 inches (310 x 310 mm).
      5. Door Size: 12 x 24 inches (305 x 610 mm). Latches: 2.
         1. Rough Opening: 12-3/16 x 24-3/16 inches (310 x 610 mm).
      6. Door Size: 14 x 14 inches (356 x 356 mm). Latches: 2.
         1. Rough Opening: 14-3/16 x 14-3/16 inches (361 x 361 mm).
      7. Door Size: 16 x 16 inches (406 x 406 mm). Latches: 2.
         1. Rough Opening: 16-3/16 x 16-3/16 inches (411 x 411 mm).
      8. Door Size: 18 x 18 inches (457 x 457 mm). Latches: 3.
         1. Rough Opening: 18-3/16 x 18-3/16 inches (462 x 462 mm).
      9. Door Size: 24 x 24 inches (610 x 610 mm). Latches: 4.
         1. Rough Opening: 24-3/16 x 24-3/16 inches (615 x 615 mm).
      10. Door Size: 24 x 36 inches (610 x 914 mm). Latches: 5.
          1. Rough Opening: 24-3/16 x 36-3/16 inches (615 x 919 mm).
    1. Product: CAD-DW Ceiling or Wall Access Door with Drywall Bead. . For use in acoustical, drywall, or tiled surfaces. Apply drywall cement over the beading at the same time as the wallboard joints and corners.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: 16 gage; 0.0598 inches (1.518 mm) satin coat steel door and frame.
         1. Finish: Primed white finish.
      2. Material: 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish No. 4 brush satin finish.
      3. Recessed Door: 5/8 inch (15 mm) deep door pan. Accepts tile, drywall, or other finishing materials.
      4. Frame: Drywall corner bead on all sides.
      5. Hinge: Concealed pivot pins.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key.
      3. Latch: Cylinder key. Cylinder key locks are keyed alike.
      4. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 8 x 8 inches (203 x 203 mm). Latches: 1.
         1. Rough Opening: 8-3/16 x 8-3/16 inches (208 x 208 mm).
      4. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 1.
         1. Rough Opening: 12-3/16 x 12-3/16 inches (310 x 310 mm).
      5. Door Size: 12 x 24 inches (305 x 610 mm). Latches: 2
         1. Rough Opening: 12-3/16 x 24-3/16 inches (310 x 610 mm).
      6. Door Size: 14 x 14 inches (356 x 356 mm). Latches: 2.
         1. Rough Opening: 14-3/16 x 14-3/16 inches (361 x 361 mm).
      7. Door Size: 16 x 16 inches (406 x 406 mm). Latches: 2.
         1. Rough Opening: 16-3/16 x 16-3/16 inches (411 x 411 mm).
      8. Door Size: 18 x 18 inches (457 x 457 mm). Latches: 3.
         1. Rough Opening: 18-3/16 x 18-3/16 inches (462 x 462 mm).
      9. Door Size: 24 x 24 inches (610 x 610 mm). Latches: 4.
         1. Rough Opening: 24-3/16 x 24-3/16 inches (615 x 615 mm).
      10. Door Size: 24 x 36 inches (610 x 914 mm). Latches: 5.
          1. Rough Opening: 24-3/16 x 36-3/16 inches (615 x 919 mm).
    1. Product: CAD-FR Fire Resistant Ceiling or Wall Access. for use in suspended drywall ceiling. Though not fire rated, the combination of steel and fire rated tile supplied by others may maintain the ceiling's fire resistant quality. Consult local Fire Codes for each application.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: CAD-FR Series: 16 gage; 0.0598 inches (1.518 mm) satin coat steel door and frame.
         1. Finish: Satin coat steel doors have a primed white finish.
      2. Material: CAD-FRSS Series: 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish: No. 4 brush satin.
      3. Door: Recessed 1-1/2 inch (38 mm) door panel to accept tile, drywall or finishing materials.
      4. Frame: Flush to surface. Mounting Flange: 1-1/8 inch (28 mm) wide and recessed 5/8 inch (16 mm) from the door.
      5. Hinge: Concealed pivot pins.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key
      3. Latch: Cylinder key. Cylinder key locks are keyed alike.
      4. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 12-1/2 inches (318 x 318 mm).
      4. Door Size: 18 x 18 inches (457 x 457 mm). Latches: 1.
         1. Rough Opening: 18-1/2 x 18-1/2 inches (470 x 470 mm).
      5. Door Size: 24 x 24 inches (610x 610 mm). Latches: 3.
         1. Rough Opening: 24-1/2 x 24-1/2 inches (622 x 622 mm).
      6. Door Size: 22 x 30 inches (559 x 762 mm). Latches: 4.
         1. Rough Opening: 22-1/2 x 30-1/2 inches (572 x 775 mm).
    1. Product: CAD-PL Recessed Access Door with Plaster Lathe. For use in acoustic plaster walls and ceilings. Door panel is lined with a self-furring metal lath to allow the insertion of plaster within the door panel. Only the thickness of the door and frame edges are exposed.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material: CAD-PL Series: 16 gage; 0.0598 inches (1.518 mm) satin coat steel door and frame.
         1. Finish: Primed white finish.
      2. Material: CAD-PLSS Series: 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish: No. 4 brush satin
      3. Door: Recessed 5/8 inch (15 mm) door pan with self-furring metal lath to accept plaster.
      4. Frame Mounting Flange: 1-1/8 inch (28 mm) wide, recessed 5/8 inch (15 mm) from the door. Lined with a 2-3/4 inch (70 mm) wide self-furring metal lath.
      5. Hinge: Concealed pivot pins.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key
      3. Latch: Cylinder key. Cylinder key locks are keyed alike.
      4. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 12 x 12 inches (305 x 305 mm). Latch 1.
         1. Rough Opening: 12-3/16 x 12-3/16 inches (310 x 310 mm).
      4. Door Size: 12 x 24 inches (305 x 610 mm). Latch 2.
         1. Rough Opening: 12-3/16 x 24-3/16 inches (310 x 610 mm).
      5. Door Size: 18 x 18 inches (457 x 457 mm). Latch 2.
         1. Rough Opening: 18-3/16 x 18-3/16 inches (462 x 462 mm).
      6. Door Size: 24 x 24 inches (610 x 610 mm). Latch 4.
         1. Rough Opening: 24-3/16 x 24-3/16 inches (615 x 615 mm).
      7. Door Size: 24 x 36 inches (610 x 914 mm). Latch 6.
         1. Rough Opening: 24-3/16 x 36-3/16 inches (615 x 919 mm).

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. SECURITY ACCESS DOORS

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Product: MI-SAD Medium Security Access Door. For drywall, masonry, or concrete construction, providing the security required in today's schools, hospitals, hotels, and correctional institutions.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material MI-SAD Series: 12 gage; 0.1046 inch (2.656 mm) steel door and 3/16 inch (5 mm) angle steel frame.
         1. Finish: Satin coat steel doors have a primed white finish.
      2. Material: MI-SADSS Series: 12 gage; 0.10937 inch (2.778 mm) No. 304 stainless steel door and 3/16 inch (5 mm) angle stainless steel frame.
         1. Finish: Stainless steel doors have a No. 4 brush satin finish.
      3. Door: Flush to frame.
      4. Frame: 3/16 x 1-1/2 x 1-1/2 inch (4 x 38 x 38 mm) steel angle welded with joints ground smooth. Pre-punched 3/16 inch (5 mm) mounting holes for easy installation.
      5. Hinge: Two heavy duty butt hinges welded to the door and frame.
      6. Latch: Cylinder key lock. All cylinder key locks are keyed alike.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 8 x 8 inches (203 x 203 mm). Latch 1.
         1. Rough Opening: 8-1/2 x 8-1/2 inches (216 x 216 mm).
      4. Door Size: 10 x 10 inches (254 x 254 mm). Latch 1.
         1. Rough Opening: 10-1/2 x 10-1/2 inches (267 x 267 mm).
      5. Door Size: 12 x 12 inches ( mm). Latch 1.
         1. Rough Opening: 12-1/2 x 12-1/2 inches (318 x 318 mm).
      6. Door Size: 14 x 14 inches ( mm). Latch 1.
         1. Rough Opening: 14-1/2 x 14-1/2 inches (368 x 368 mm).
      7. Door Size: 16 x 16 inches ( mm). Latch 1.
         1. Rough Opening: 16-1/2 x 16-1/2 inches (419 x 419 mm).
      8. Door Size: 18 x 18 inches ( mm). Latch 1.
         1. Rough Opening: 18-1/2 x 18-1/2 inches (470 x 470 mm).
      9. Door Size: 18 x 24 inches ( mm). Latch 1.
         1. Rough Opening: 18-1/2 x 24-1/2 inches (470 x 622 mm).
      10. Door Size: 22 x 22 inches ( mm). Latch 1.
          1. Rough Opening: 22-1/2 x 22-1/2 inches (572 x 572 mm)
      11. Door Size: 24 x 24 inches ( mm). Latch 1.
          1. Rough Opening: 24-1/2 x 24-1/2 inches (622 x 622 mm).
      12. Door Size: 24 x 30 inches ( mm). Latch 1.
          1. Rough Opening: 24-1/2 x 30-1/2 inches (622 x 775 mm).
      13. Door Size: 24 x 36 inches ( mm). Latch 2.
          1. Rough Opening: 24-1/2 x 36-1/2 inches (622 x 927 mm).
      14. Door Size: 30 x 30 inches ( mm). Latch 2.
          1. Rough Opening: 30-1/2 x 30-1/2 inches (775 x 775 mm).
      15. Door Size: 36 x 36 inches ( mm). Latch 2.
          1. Rough Opening: 36-1/2 x 36-1/2 inches (927 x 927 mm).
    1. Product: MI-SADH High Security Access Door. Has the strength and durability to endure abusive and vandal-prone conditions, common in many institutions.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material MI-SAD Series: 10 gage; 0.1345 inch (3.416 mm) steel door and 1/4 inch (6 mm) angle steel frame.
         1. Finish: Satin coat steel doors have a primed white finish.
      2. Material: MI-SADSS Series: 10 gage; 0.14062 inch (3.571 mm) No. 304 stainless steel door and 1/4 inch (6 mm) angle stainless steel frame.
         1. Finish: Stainless steel doors have a 4 brush satin finish.
      3. Door: Flush to frame.
      4. Frame: 1/4 x 2 x 2 inch (6 x 51 x 51 mm) steel angle welded with joints ground smooth. Pre-punched 1/4 inch (6 mm) mounting holes for easy installation.
      5. Hinge: Two heavy duty butt hinges welded to the door and frame.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Best Lock No. 1E7D4-C228-RP3-626 with key.
      2. Latch: Provided by others.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 1.
         1. Rough Opening: 12-1/2 x 12-1/2 inches (318 x 318 mm).
      4. Door Size: 16 x 16 inches (406 x 406 mm). Latches: 1.
         1. Rough Opening: 16-1/2 x 16-1/2 inches (419 x 419 mm).
      5. Door Size: 18 x 18 inches (457 x 457 mm). Latches: 1.
         1. Rough Opening: 18-1/2 x 18-1/2 inches (470 x 470 mm).
      6. Door Size: 24 x 24 inches (610 x 610 mm). Latches: 1.
         1. Rough Opening: 24-1/2 x 24-1/2 inches (622 x 622 mm).
      7. Door Size: 24 x 36 inches (610 x 914 mm). Latches: 2.
         1. Rough Opening: 24-1/2 x 36-1/2 inches (622 x 927 mm).
      8. Door Size: 24 x 48 inches (610 x 1219 mm). Latches: 2.
         1. Rough Opening: 24-1/2 x 48-1/2 inches (622 x 1232 mm).
      9. Door Size: 36 x 36 inches (914 x 914 mm). Latches: 2.
         1. Rough Opening: 36-1/2 x 36-1/2 inches (927 x 927 mm).
      10. Door Size: 36 x 48 inches (914 x 1219 mm). Latches: 2.
          1. Rough Opening: 36-1/2 x 48-1/2 inches (927 x 1232 mm).

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. UNIVERSAL ACCESS DOORS
     1. Product: CAD-FL Universal Access Door with Frame. For flush installation in drywall or plaster surfaces. The door panel is flush with the frame. When installed flush with the wall or ceiling, only the door panel is exposed.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material CAD-FL: Series is a 16 gage; 0.0598 inches (1.518 mm) satin coat door and frame.
         1. Finish: Primed white finish.
      2. Material CAD-FLSS: Stainless Steel Series is 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish: No. 4 brush satin finish.
      3. Door: Flush to frame. Turned back around edges for extra rigidity.
      4. Frame: Flush to surface. Mounting Flange: 1-1/8 inch (28 mm) wide and recessed 5/8 inches (15 mm) from the door.
      5. Hinge: Concealed pivot pins.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key
      3. Latch: Cylinder key. Cylinder key locks are keyed alike.
      4. Latch: Paddle latch.
      5. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: As detailed on the Drawings.
      3. Door Size: 8 x 8 inches (203 x 203 mm). Latch 1.
         1. Rough Opening: 8-3/16 x 8-3/16 inches (208 x 208 mm).
      4. Door Size: 8 x 12 inch (203 x 305 mm). Latch 1.
         1. Rough Opening: 8-3/16 x 12-3/16 inch (208 x 310 mm).
      5. Door Size: 10 x 10 inch (254 x 254 mm). Latch 1.
         1. Rough Opening: 10-3/16 x 10-3/16 inch (259 x 259 mm).
      6. Door Size: 12 x 12 inches (305 x 305 mm). Latch 1.
         1. Rough Opening: 12-3/16 x 12-3/16 inches (310 x 310 mm).
      7. Door Size: 12 x 16 inch (305 x 406 mm). Latch 1.
         1. Rough Opening: 12-3/16 x 16-3/16 inch (310 x 411 mm).
      8. Door Size: 12 x 18 inch (305 x 457 mm). Latch 1.
         1. Rough Opening: 12-3/16 x 18-3/16 inch (310 x 462 mm).
      9. Door Size: 12 x 24 inches (305 x 610 mm). Latch 3.
         1. Rough Opening: 12-3/16 x 24-3/16 inches (310 x 610 mm).
      10. Door Size: 14 x 14 inches (356 x 356 mm). Latch 1.
          1. Rough Opening: 14-3/16 x 14-3/16 inches (361 x 361 mm).
      11. Door Size: 16 x 16 inches (406 x 406 mm). Latch 1.
          1. Rough Opening: 16-3/16 x 16-3/16 inches (411 x 411 mm).
      12. Door Size: 16 x 20 inch (406 x 508 mm). Latch 1.
          1. Rough Opening: 16-3/16 x 20-3/16 inch (411 x 513 mm).
      13. Door Size: 18 x 18 inches (457 x 457 mm). Latch 3.
          1. Rough Opening: 18-3/16 x 18-3/16 inches (462 x 462 mm).
      14. Door Size: 18 x 24 inch (457 x 610 mm). Latch 3.
          1. Rough Opening: 18-3/16 x 24-3/16 inch (462 x 615 mm).
      15. Door Size: 20 x 24 inch (508 x 610 mm). Latch 3.
          1. Rough Opening: 20-3/16 x 24-3/16 inch (513 x 615 mm).
      16. Door Size: 20 x 30 inch (508 x 762 mm). Latch 5.
          1. Rough Opening: 20-3/16 x 30-3/16 inch (512 x 767 mm).
      17. Door Size: 24 x 24 inches (610 x 610 mm). Latch 3.
          1. Rough Opening: 24-3/16 x 24-3/16 inches (615 x 615 mm).
      18. Door Size: 24 x 30 inch (610 x 762 mm). Latch 5.
          1. Rough Opening: 24-3/16 x 30-3/16 inch (615 x 767 mm).
      19. Door Size: 24 x 36 inches (610 x 914 mm). Latch 5.
          1. Rough Opening: 24-3/16 x 36-3/16 inches (615 x 919 mm).
      20. Door Size: 30 x 30 inch (762 x 762 mm). Latch 5.
          1. Rough Opening: 30-3/16 x 30-3/16 inch (767 x 767 mm).
      21. Door Size: 36 x 36 inch (914 x 914 mm). Latch 5.
          1. Rough Opening: 36-3/16 x 36-3/16 inch (919 x 919 mm).
    1. Product: CAD-FL-PL Universal Access Door with Plaster Lathe. For flush installation in drywall or plaster surfaces. The door panel is flush with the frame. When installed flush with the wall or ceiling, only the door panel is exposed.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material CAD-FL PL: Series is a 16 gage; 0.0598 inches (1.518 mm) satin coat door and frame.
         1. Finish: Primed white finish.
      2. Material CAD-FLSS PL: Stainless Steel Series is 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish: No. 4 brush satin finish.
      3. Door: Flush to frame. Turned back around edges for extra rigidity.
      4. Frame: Flush to surface. Mounting Flange: 1-1/8 inch (28 mm) wide and recessed 5/8 inches (15 mm) from the door.
         1. Metal Lath: 2-3/4 inch (70 mm) wide on all sides provides a rigid frame.
      5. Hinge: Concealed pivot pins.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key
      3. Latch: Cylinder key. Cylinder key locks are keyed alike.
      4. Latch: Paddle latch.
      5. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Door Size: 8 x 8 inches (203 x 203 mm). Latch: 1.
         1. Rough Opening: 8-3/16 x 8-3/16 inches (208 x 208 mm).
      3. Door Size: 8 x 12 inch (203 x 305 mm). Latch: 1.
         1. Rough Opening: 8-3/16 x 12-3/16 inch (208 x 310 mm).
      4. Door Size: 10 x 10 inch (254 x 254 mm). Latch: 1.
         1. Rough Opening: 10-3/16 x 10-3/16 inch (259 x 259 mm).
      5. Door Size: 12 x 12 inches (305 x 305 mm). Latch: 1.
         1. Rough Opening: 12-3/16 x 12-3/16 inches (310 x 310 mm).
      6. Door Size: 12 x 16 inch (305 x 406 mm). Latch: 1.
         1. Rough Opening: 12-3/16 x 16-3/16 inch (310 x 411 mm).
      7. Door Size: 12 x 18 inch (305 x 457 mm). Latch: 1.
         1. Rough Opening: 12-3/16 x 18-3/16 inch (310 x 462 mm).
      8. Door Size: 12 x 24 inches (305 x 610 mm). Latch: 3.
         1. Rough Opening: 12-3/16 x 24-3/16 inches (310 x 610 mm).
      9. Door Size: 14 x 14 inches (356 x 356 mm). Latch: 1.
         1. Rough Opening: 14-3/16 x 14-3/16 inches (361 x 361 mm).
      10. Door Size: 16 x 16 inches (406 x 406 mm). Latch: 1.
          1. Rough Opening: 16-3/16 x 16-3/16 inches (411 x 411 mm).
      11. Door Size: 16 x 20 inch (406 x 508 mm). Latch: 1.
          1. Rough Opening: 16-3/16 x 20-3/16 inch (411 x 513 mm).
      12. Door Size: 18 x 18 inches (457 x 457 mm). Latch: 3.
          1. Rough Opening: 18-3/16 x 18-3/16 inches (462 x 462 mm).
      13. Door Size: 18 x 24 inch (457 x 610 mm). Latch: 3.
          1. Rough Opening: 18-3/16 x 24-3/16 inch (462 x 615 mm).
      14. Door Size: 20 x 24 inch (508 x 610 mm). Latch: 3.
          1. Rough Opening: 20-3/16 x 24-3/16 inch (513 x 615 mm).
      15. Door Size: 20 x 30 inch (508 x 762 mm). Latch: 5.
          1. Rough Opening: 20-3/16 x 30-3/16 inch (512 x 767 mm).
      16. Door Size: 24 x 24 inches (610 x 610 mm). Latch: 3.
          1. Rough Opening: 24-3/16 x 24-3/16 inches (615 x 615 mm).
      17. Door Size: 24 x 30 inch (610 x 762 mm). Latch: 5.
          1. Rough Opening: 24-3/16 x 30-3/16 inch (615 x 767 mm).
      18. Door Size: 24 x 36 inches (610 x 914 mm). Latch: 5.
          1. Rough Opening: 24-3/16 x 36-3/16 inches (615 x 919 mm).
      19. Door Size: 30 x 30 inch (762 x 762 mm). Latch: 5.
          1. Rough Opening: 30-3/16 x 30-3/16 inch (767 x 767 mm).
      20. Door Size: 36 x 36 inch (914 x 914 mm). Latch: 5.
          1. Rough Opening: 36-3/16 x 36-3/16 inch (919 x 919 mm).
    1. Product: MDW Universal Access Door with Drywall Bead. for installation after drywall has been applied and a concealed outer flange is required. The outer frame has a galvanized drywall taping bead. Drywall cement can be applied over the beading at the same time as the wallboard joints and corners. Only the door is visible.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material MDW: Series is a 16 gage; 0.0598 inches (1.518 mm) satin coat door and frame.
         1. Finish: Primed white finish.
      2. Material MDWSS: Stainless Steel Series is 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish: No. 4 brush satin finish.
      3. Door: Flush to frame. Turned back around edges for extra rigidity.
      4. Frame: Drywall taping bead on all sides.
      5. Hinge: Concealed pivot pins.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key
      3. Latch: Cylinder key. Cylinder key locks are keyed alike.
      4. Latch: Paddle latch.
      5. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: 8 x 8 inch (203 x 203 mm). Latch: 1.
         1. Rough Opening: 8 3/8 x 8 3/8 inch (213 x 213 mm).
      2. Door Size: 10 x 10 inch (254 x 254 mm). Latch: 1.
         1. Rough Opening: 10 3/8 x 10 3/8 inch (264 x 264 mm).
      3. Door Size: 12 x 12 inch (305 x 305 mm). Latch: 1.
         1. Rough Opening: 12 3/8 x 12 3/8 inch (315 x 315mm).
      4. Door Size: 14 x 14 inch (356 x 356mm). Latch: 1.
         1. Rough Opening: 14 3/8 x 14 3/8 inch (366 x 366 mm).
      5. Door Size: 16 x 16 inch (406 x 406 mm). Latch: 1.
         1. Rough Opening: 16 3/8 x 16 3/8 inch (416 x 416 mm).
      6. Door Size: 18 x 18 inch (457 x 457 mm). Latch: 3.
         1. Rough Opening: 18 3/8 x 18 3/8 inch (467 x 467 mm).
      7. Door Size: 22 x 22 inch (559 x 559 mm). Latch: 3.
         1. Rough Opening: 22 3/8 x 22 3/8 inch (569 x 569 mm).
      8. Door Size: 24 x 24 inch (610 x 610 mm). Latch: 3.
         1. Rough Opening: 24 3/8 x 24 3/8 inch (620 x 620 mm).
      9. Door Size: 24 x 36 inch (610 x 914 mm). Latch: 5.
         1. Rough Opening: 24 3/8 x 36 3/8 inch (620 x 924 mm).
      10. Door Size: 30 x 30 inch (762 x 762 mm). Latch: 5.
          1. Rough Opening: 30 3/8 x 30 3/8 inch (772 x 772 mm).
      11. Door Size: 36 x 36 inch (914 x 914 mm). Latch: 5.
          1. Rough Opening: 36 3/8 x 36 3/8 inch (924 x 924 mm).
    1. Product: UA Universal Access Door with Frame. For flush installation into drywall, block or tile, walls, and ceilings. The door features rounded safety corners, concealed hinge, flush with frame fit, a unique white finish, and a 3/8 inch (9 mm) turn back in the door panel for extra rigidity and safety.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material UA: Series is a 16 gage; 0.0598 inches (1.518 mm) satin coat door and frame.
         1. Finish: Primed white finish.
      2. Material UASS: Stainless Steel Series is 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish: No. 4 brush satin finish.
      3. Door: Flush to frame. Turned back around edges for extra rigidity.
      4. Frame: The frame has pre-punched mounting holes for simple installation.
         1. Flange: 1-1/16 inches wide. Rounded corners.
      5. Hinge: Concealed pivot pins. On longer door size dimension unless specified otherwise.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Flush mounted, screwdriver operated cam.
      2. Latch: Allen key
      3. Latch: Cylinder key. Cylinder key locks are keyed ali72ke.
      4. Latch: Paddle latch.
      5. Latch: Vandal resistant.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: 6 x 6 inch (152 x 152 mm). Latch: 1.
         1. Rough Opening: 6-3/8 x 6-3/8 inch (162 x 162 mm).
      2. Door Size: 8 x 8 inch (203 x 203 mm). Latch: 1.
         1. Rough Opening: 8 3/8 x 8 3/8 inch (213 x 213 mm).
      3. Door Size: 8 x 12 inch (203 x 305 mm). Latch: 1.
         1. Rough Opening: 8 3/8 x 8 3/8 inch (213 x 315 mm).
      4. Door Size: 10 x 10 inch (254 x 254 mm). Latch: 1.
         1. Rough Opening: 10 3/8 x 10 3/8 inch (264 x 264 mm).
      5. Door Size: 12 x 12 inch (305 x 305 mm). Latch: 1.
         1. Rough Opening: 12 3/8 x 12 3/8 inch (315 x 315mm).
      6. Door Size: 12 x 16 inch (305 x 406 mm). Latch: 1.
         1. Rough Opening: 12-3/8 x 16-3/8 inch (315 x 416 mm).
      7. Door Size: 12 x 18 inch (305 x 457 mm). Latch: 1.
         1. Rough Opening: 12-3/8 x 18-3/8 inch (315 x 467 mm).
      8. Door Size: 12 x 24 inch (305 x 610 mm). Latch: 2.
         1. Rough Opening: 12-3/8 x 24-3/8 inch (315 x 620 mm).
      9. Door Size: 14 x 14 inch (356 x 356mm). Latch: 1.
         1. Rough Opening: 14 3/8 x 14 3/8 inch (366 x 366 mm).
      10. Door Size: 14 x 20 inch (356 x 508 mm). Latch: 2.
          1. Rough Opening: 14 3/8 x 14 3/8 inch (366 x 518 mm).
      11. Door Size: 14 x 24 inch (356 x 610 mm). Latch: 3.
          1. Rough Opening: 14-3/8 x 24-3/8 inch (366 x 620 mm).
      12. Door Size: 15 x 15 inch (381 x 381 mm). Latch: 1.
          1. Rough Opening: 15-3/8 x 15-3/8 inch (391 x 391 mm).
      13. Door Size: 16 x 16 inch (406 x 406 mm). Latch: 1.
          1. Rough Opening: 16 3/8 x 16 3/8 inch (416 x 416 mm).
      14. Door Size: 16 x 20 inch (406 x 508 mm). Latch: 2.
          1. Rough Opening: 16 3/8 x 16 3/8 inch (416 x 4518mm).
      15. Door Size: 16 x 24 inch (406 x 610 mm). Latch: 2.
          1. Rough Opening: 16 3/8 x 16 3/8 inch (416 x 620 mm).
      16. Door Size: 18 x 18 inch (457 x 457 mm). Latch: 3.
          1. Rough Opening: 18 3/8 x 18 3/8 inch (467 x 467 mm).
      17. Door Size: 18 x 24 inch (457 x 610 mm). Latch: 5.
          1. Rough Opening: 18 3/8 x 18 3/8 inch (467 x 620 mm).
      18. Door Size: 18 x 36 inch (457 x 914 mm). Latch: 5.
          1. Rough Opening: 18 3/8 x 18 3/8 inch (467 x 924 mm).
      19. Door Size: 20 x 20 inch (508 x 508 mm). Latch: 3.
          1. Rough Opening: 20-3/8 x 20-3/8 inch (518 x 518 mm).
      20. Door Size: 20 x 24 inch (508 x 610 mm). Latch: 3.
          1. Rough Opening: 20-3/8 x 20-3/8 inch (518 x 620 mm).
      21. Door Size: 20 x 30 inch (508 x 762 mm). Latch: 5.
          1. Rough Opening: 20-3/8 x 20-3/8 inch (518 x 772 mm).
      22. Door Size: 22 x 22 inch (559 x 559 mm). Latch: 3.
          1. Rough Opening: 22 3/8 x 22 3/8 inch (569 x 569 mm).
      23. Door Size: 22 x 30 inch (559 x 762 mm). Latch: 5.
          1. Rough Opening: 22 3/8 x 22 3/8 inch (569 x 772 mm).
      24. Door Size: 24 x 24 inch (610 x 610 mm). Latch: 3.
          1. Rough Opening: 24 3/8 x 24 3/8 inch (620 x 620 mm).
      25. Door Size: 24 x 30 inch (610 x 762 mm). Latch: 5.
          1. Rough Opening: 24 3/8 x 36 3/8 inch (620 x 772 mm).
      26. Door Size: 24 x 36 inch (610 x 914 mm). Latch: 6.
          1. Rough Opening: 24 3/8 x 36 3/8 inch (620 x 924 mm).
      27. Door Size: 24 x 48 inch (610 x 1219 mm). Latch: 7.
          1. Rough Opening: 24 3/8 x 36 3/8 inch (620 x 1229 mm).
      28. Door Size: 30 x 30 inch (762 x 762 mm). Latch: 7.
          1. Rough Opening: 30 3/8 x 30 3/8 inch (772 x 772 mm).
      29. Door Size: 32 x 32 inch (813 x 813 mm). Latch: 5.
          1. Rough Opening: 30 3/8 x 30 3/8 inch (772 x 772 mm).
      30. Door Size: 36 x 36 inch (914 x 914 mm). Latch: 8.
          1. Rough Opening: 36 3/8 x 36 3/8 inch (924 x 924 mm).
      31. Door Size: 36 x 48 inch (914 x 1219 mm). Latch: 5.
          1. Rough Opening: 36 3/8 x 36 3/8 inch (924 x 1229 mm).
      32. Door Size: 48 x 48 inch (1219 x 1219 mm). Latch: 5
          1. Rough Opening: 48 3/8 x 48 3/8 inch (1229 x 1229 mm).

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. OTHER ACCESS DOORS

\*\* NOTE TO SPECIFIER \*\* Delete product options not required.

* + 1. Product: MI-FVP Flush Valve Panel. For back supply toilets and urinals where the flush valve is built into the wall. For maintenance personnel to service the flush valve. Protects flush valve from vandalism.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Material MI-FVP Series: 16 gage; 0.0598 inches (1.518 mm) satin coat steel door and frame.
         1. Finish: Steel doors have a primed white finish.
      2. Material: MI-FVPSS Stainless Steel Series: 16 gage; 0.0625 inches (1.587 mm) No. 304 stainless steel door and frame.
         1. Finish: Stainless steel doors have a No. 4 brush satin finish.

\*\* NOTE TO SPECIFIER \*\* Delete door and door size options not required.

* + - 1. Door: 1-1/2 inch (38 mm) diameter centered hole for flush valve pushbutton.
      2. Door: Solid. No hole for flush valve pushbutton.
      3. Door Size: 12 x 12 inches (305 x 305 mm). Latches: 6.
      4. Door Size: 13 x 17 inches (330 x 432 mm). Latches: 7.
      5. Frame: Two piece construction. 5/16 x 11/16 inch (8 x 17.5 mm) OBL Slots for easy installation.
      6. Latch: Four 1/4 - 20 x 1 inch (25 mm) tamper resistant stainless steel Torx screws.
    1. Product: PA Plastic Access Door. For access to plumbing and cables behind walls and ceilings. Removable door fits tightly with snap latches. Can be painted or wallpapered. Do not install near potential sources of excessive heat or open flame.
       1. Material: 1/8 inch (3 mm) thick high impact styrene plastic with UV stabilizers to prevent fading and corrosion.
       2. Finish: White.
       3. Door: Flush to frame. Rounded safety corners. Two pull tabs on back of door allow door to be pulled back into the frame from behind walls and ceilings.
       4. Frame: One piece outside flange. 1-1/2 inch (38 mm) wide with a 5/8 inch (16 mm) deep mounting flange.
       5. Latch: Snap latches allow door to fit tightly into frame.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: 8 x 8 inches (203 x 203 mm).
         1. Overall Dimensions: 11 x 11 inches (279 x 279 mm)
         2. Wall Opening: 7-7/8 x 7-7/8 inch (200 x 200 mm)
      2. Door Size: 14 x 14 inches (356 x 356 mm).
         1. Overall Dimensions: 17 x 17 inches (432 x 432 mm)
         2. Wall Opening: 13-7/8 x 13-7/8 inch (352 x 352 mm)
      3. Door Size: 14 x 29 inches (356 x 737 mm).
         1. Overall Dimensions: 17 x 32 inches (432 x 813 mm)
         2. Wall Opening: 13-7/8 x 28-7/8 inch (352 x 733 mm)
    1. Product: SL Series Access Panel. For both wall and ceiling applications. A concealed hinged Access Panel or Pop-out Panel
       1. Material: GFRGIGFRC and 70 percent post-consumer recycled glass.

\*\* NOTE TO SPECIFIER \*\* Delete pop-out and latch options not required.

* + - 1. Pop-Out. Radius corners.
      2. Pop-Out. Square corners.
      3. Pop-Out. Round.
      4. Latch: Cam latch.
      5. Latch: Keyed lock.
      6. Hinges: Concealed.

\*\* NOTE TO SPECIFIER \*\* Delete door size options not required.

* + - 1. Door Size: 9 x 9 inch (229 x 229 mm).
         1. Rough Opening: 15 x 15 inches (381 x 381 mm).
      2. Door Size: 12 x 12 inch (305 x 305 mm).
         1. Rough Opening: 18 x 18 inches (457 x 457 mm).
      3. Door Size: 16 x 16 inch (406 x 406 mm).
         1. Rough Opening: 22 x 22 inches (559 x 559 mm).
      4. Door Size: 18 x 18 inch (457 x 457 mm).
         1. Rough Opening: 24 x 24 inches (610 x 610 mm).
      5. Door Size: 24 x 24 inch (610 x 610 mm).
         1. Rough Opening: 30 x 30 inches (762 x 762 mm).
      6. Door Size: 9 inch (229 mm) diameter.
         1. Rough Opening: 15 x 15 inches (381 x 381 mm).
      7. Door Size: 12 inch (305 mm) diameter.
         1. Rough Opening: 18 x 18 inches (457 x 457 mm).
      8. Door Size: 16 inch (406 mm) diameter.
         1. Rough Opening: 22 x 22 inches (559 x 559 mm).
      9. Door Size: 18 inch (457 mm) diameter.
         1. Rough Opening: 24 x 24 inches (610 x 610 mm).
      10. Door Size: 24 inch (610 mm) diameter.
          1. Rough Opening: 30 x 30 inches (762 x 762 mm).

\*\* NOTE TO SPECIFIER \*\* Gasket is optional. Delete if not required.

* + - 1. Gasket: Neoprene.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. HATCHES

\*\* NOTE TO SPECIFIER \*\* Delete product option not required.

* + 1. Product: FHA/FHG Floor Access Doors. Interior or exterior use. The angle frame with integral anchor flange is designed to be cast into concrete. Designed for safety, durability, and ease of operation.

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - 1. Material FHG: 3/16 inch (5 mm) thick A36 galvanized steel diamond plate.
         1. Finish FHG: Primed grey finish.
         2. Capacity: 300 lbs per sq ft (1465 kg per sq m) live load.
      2. Material FHG: 1/4 inch (6 mm) thick A36 galvanized steel reinforced diamond plat
         1. Finish FHG: Primed grey finish.
         2. Capacity: 10,000 lbs (4536 kg) live load.
      3. Material FHA: 3/16 inch (5 mm) thick structural grade aluminum diamond plate.
         1. Finish FHA: Series is an aluminum mill finish.
         2. Capacity: 300 lbs per sq ft (1465 kg per sq m). Live load.
      4. Material FHA: 1/4 inch (6 mm) thick structural grade aluminum reinforced diamond plate.
         1. Finish FHA: Series is an aluminum mill finish.
         2. Capacity: 10,000 lbs (4536 kg) live load.
      5. Frame Material: Composite hot rolled steel angle frame.
         1. Frame Finish: Bituminous coating.
      6. Door: Flush to frame.
      7. Frame: 1 inch (25 mm) anchor flange.
      8. Hardware: Type No. 316 stainless steel.
      9. Hinge: Tamper proof steel hinges with stainless steel pins.
      10. Opening Device: Automatic locking hold open arm with red vinyl grip allows door to open 90 degrees.
      11. Handle: Stainless steel recessed lift handle in the door.

\*\* NOTE TO SPECIFIER \*\* Delete latch options not required.

* + - 1. Latch: Padlock staple,
      2. Latch: Type No. 316 stainless steel snap lock with removable handle
      3. Latch: Recessed hasp, Type No. 316 stainless steel pentahead.
      4. Latch: Keyed deadbolt lock or hasp and staple.
      5. Latch: Compression lever latch.

\*\* NOTE TO SPECIFIER \*\* Delete options not required.

* + - 1. Options:
         1. Compression Spring Assist.
         2. Skirting to Depth of Slab.
         3. Fiberglass Insulation.

\*\* NOTE TO SPECIFIER \*\* Delete hatch opening options not required.

* + - 1. Hatch Opening: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm). Latches: \_\_\_.
         1. Rough Opening: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Hatch Opening: As detailed on the Drawings.
      3. Hatch Opening: 24 x 24 inches (610 x 610 mm).
         1. Rough Opening: 26-1/2 x 24-1/2 inches (673 x 622 mm).
      4. Hatch Opening: 24 x 30 inches (610 x 762 mm).
         1. Rough Opening: 26-1/2 x 30-1/2 inches (673 x 775 mm).
      5. Hatch Opening: 24 x 36 inches (610 x 914 mm).
         1. Rough Opening: 26-1/2 x 36-1/2 inches (673 x 927 mm).
      6. Hatch Opening: 30 x 30 inches (762 x 762 mm).
         1. Rough Opening: 32-1/2 x 30-1/2 inches (826 x 775 mm).
      7. Hatch Opening: 30 x 36 inches (762 x 914 mm).
         1. Rough Opening: 32-1/2 x 36-1/2 inches (826 x 927 mm).
      8. Hatch Opening: 30 x 48 inches (762 x 1219 mm).
         1. Rough Opening: 32-1/2 x 48-1/2 inches (826 x 1232 mm).
      9. Hatch Opening: 36 x 36 inches (914 x 914 mm).
         1. Rough Opening: 38-1/2 x 36-1/2 inches (978 x 927 mm).
      10. Hatch Opening: 36 x 48 inches (914 x 1219 mm).
          1. Rough Opening: 38-1/2 x 48-1/2 inches (9978 x 1232 mm).
      11. Hatch Opening: 42 x 42 inches (1067 x 1067 mm).
          1. Rough Opening: 44-1/2 x 42-1/2 inches (1130 x 1080 mm).
      12. Hatch Opening: 48 x 48 inches (1219 x 1219 mm).
          1. Rough Opening: 50-1/2 x 48-1/2 inches (1283 x 1232 mm).
      13. Hatch Opening: 48 x 72 inches (1219 x 1829 mm).
          1. Rough Opening: 50-1/2 x 72-1/2 inches (1283 x 1842 mm).
      14. Hatch Opening: 60 x 60 inches (1524 x 1524 mm).
          1. Rough Opening: 62-1/2 x 60-1/2 inches (1588 x 1537 mm).
    1. Product: RHA/RHG Roof Access Door.

\*\* NOTE TO SPECIFIER \*\* Delete cover options not required.

* + - 1. Cover RHG: 14 gage; 0.0785 inches (1.9939 mm) galvanized steel and 20 gage () steel liner.
         1. Finish RHG Series: Primed white finish.
         2. Frame RHG Series: 14 gage; 0.0785 inches (1.9939 mm) galvanized steel
      2. Cover RHA: 0.090 inch (2.29 mm) aluminum with a 0.050 inch (1.27) aluminum liner.
         1. Finish RHA Series: Aluminum mill finish.
         2. Frame RHA Series: 0.090 inch (2.29 mm) aluminum.
      3. Inner Cover Gasket: Neoprene weather seal providing a flush, tight, fit. Insulation: 1 inch (25 mm) of fibreboard.
      4. Opening Device: Automatic hold open arm with red vinyl grip release. Keeps cover in an open position when needed,
      5. Snow Load Capacity: 40 lbs per sq ft (195 kg per sq m).
      6. Curbs: 12 inches (305 mm) high with 4 inch (102 mm) wide rounded corner flashing flange complete with 1 inch (25 mm) fibreboard insulation.
      7. Hinge: Formed steel hinges with stainless steel pins.
      8. Opening: Hydraulic column operators allowing cover to easily open and close.
      9. Handle: Self latching outside cadmium plated steel turn handle with inside lever handle allows cover to latch securely.
      10. Latch: Locking hasps on inside and outside of cover.
      11. Hardware: Cadmium plated steel.

\*\* NOTE TO SPECIFIER \*\* Delete hatch and roof opening options not required.

* + - 1. Hatch and Roof Opening: \_\_\_\_ x \_\_\_\_ inches ( \_\_\_\_x \_\_\_\_ mm).
         1. Outside Frame Dimensions: \_\_\_\_ x \_\_\_\_ inches (\_\_\_\_ x \_\_\_\_ mm).
      2. Hatch and Roof Opening: As detailed on the Drawings.
      3. Hatch and Roof Opening: 24 x 24 inches (610 x 610 mm).
         1. Outside Frame Dimensions: 31 x 31 inches (787 x 787 mm).
      4. Hatch and Roof Opening: 24 x 30 inches (610 x 762 mm).
         1. Outside Frame Dimensions: 31 x 37 inches (787 x 940 mm).
      5. Hatch and Roof Opening: 24 x 36 inches (610 x 914 mm).
         1. Outside Frame Dimensions: 31 x 43 inches (787 x 1092 mm).
      6. Hatch and Roof Opening: 30 x 30 inches (762 x 762 mm).
         1. Outside Frame Dimensions: 37 x 37 inches (940 x 940 mm).
      7. Hatch and Roof Opening: 30 x 36 inches (762 x 914 mm).
         1. Outside Frame Dimensions: 37 x 43 inches (940 x 1092 mm).
      8. Hatch and Roof Opening: 30 x 54 inches (762 x 1372 mm).
         1. Outside Frame Dimensions: 37 x 61 inches (940 x 1549 mm).
      9. Hatch and Roof Opening: 30 x 96 inches (762 x 2438 mm).
         1. Outside Frame Dimensions: 37 x 103 inches (940 x 2616 mm).
      10. Hatch and Roof Opening: 36 x 36 inches (914 x 914 mm).
          1. Outside Frame Dimensions: 43 x 43 inches (1092 x 1092 mm).
      11. Hatch and Roof Opening: .36 x 48 inches (914 x 1219 mm).
          1. Outside Frame Dimensions: 43 x 55 inches (1092 x 1397 mm).
      12. Hatch and Roof Opening: 48 x 48 inches (1219 x 1219 mm).
          1. Outside Frame Dimensions: 55 x 55 inches (1397 x 1397 mm).

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly constructed and prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
   4. FIELD QUALITY CONTROL
      1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection, or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
  1. CLEANING AND PROTECTION
     1. Clean products in accordance with the manufacturer's recommendations.
     2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION