SECTION 08 41 26 – ALL-GLASS ENTRANCES

1. GENERAL
   * + 1. SUMMARY
          1. Section includes swinging, single-acting [and] double-acting, sliding (not on exterior) [exterior] [and] [interior] all-glass door [and sidelite] assemblies with concealed closers, rail fittings, [and] top and bottom pivots.
          2. RELATED SECTIONS

Division 6: Rough Carpentry.

Division 8: Glass and Glazing

Division 8: Automatic Door Operators

Division 8: Door Hardware

Division 9: Finishes

Division 26 Electrical

Division 28: Electronic Security

Specifier: Add or delete additional sections as required. The following are suggested sections you may want to add.

Division 8: Misc. Frame Sections

Division 8: Aluminum Doors and Frames

Division 8: Hollow Metal Doors and Frames.

Division 8: Wood Doors.

* + - * 1. REFERENCE STANDARDS

Specifier: If retaining References article, edit the list below to include only those references in the edited section.

American Architectural Manufacturers Association (AAMA): AAMA 611 Voluntary Specification for Anodized Architectural Aluminum - [www.aama.org](http://www.aama.org)

ASTM International (ASTM): ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass [www.astm.org](http://www.astm.org)

Builders Hardware Manufacturers Association (BHMA): ANSI/BHMA A156 Series - [www.buildershardware.com](http://www.buildershardware.com)

Code of Federal Regulations - 16 CFR 1201 Safety Standard for Architectural Glazing Materials

International Code Council (ICC): ICC A117.1 Accessible and Usable Buildings and Facilities (ANSI) - [www.iccsafe.org](http://www.iccsafe.org)

U.S. Architectural & Transportation Barriers Compliance Board: [www.access-board.gov](http://www.access-board.gov):

Americans with Disabilities Act (ADA) and Architectural Barriers Act (ABA) Accessibility Guidelines for Buildings and Facilities

* + - 1. SUBSTITUTIONS:
         1. Comply with Division 1.
      2. ADMINISTRATIVE REQUIREMENTS
         1. Coordination:

Coordinate installation of all-glass door assemblies with installation of floor and wall opening construction to comply with tolerance requirements of recessed components.

Coordinate installation of anchors and blocking indicated on all-glass entrance shop drawings.

* + - 1. ACTION SUBMITTALS
         1. Product Data: For each all-glass entrance component, including:

Glass panels.

Rail [and] Patch fittings.

Closer and pivots.

Auxiliary door hardware and accessories.

* + - * 1. Shop Drawings: For glass door assemblies.

Include plans, elevations, sections, and details. Use glass panel type designations used in this Section and on Drawings.

Locations and requirements for recesses and attachments to other work.

Door hardware components, locations, mounting heights, and installation requirements.

Size and finish of each item.

Indicate Handing of each door and hardware component.

Indicate finish floor type and thickness and if any underlayment is required.

* + - * 1. Samples for Verification (If requested by the Owner or Architect): For each exposed component including hardware, for each color and finish selected, of size indicated below:

Glass: Minimum of 6 inches (150 mm) square, showing exposed-edge finish[ and tint].

Hardware: One of each type of exposed door hardware items.

* + - 1. INFORMATIONAL SUBMITTALS
         1. Qualification Data: For qualified installer.
         2. Warranty: Sample of unexecuted manufacturer warranty.
      2. CLOSEOUT SUBMITTALS
         1. Maintenance Data: For all-glass door assemblies, to include in maintenance manuals.
      3. QUALITY ASSURANCE
         1. Installer Qualifications: Experienced Installer equipped and trained for installation of glass door assemblies required for this Project with record of successful completion of not less than five projects of similar scope.
      4. WARRANTY
         1. Special Manufacturer's Warranty: Standard form in which manufacturer agrees to repair or replace components of glass door assemblies that demonstrate deterioration or faulty operation due to defects in materials or workmanship under normal use within warranty period specified.

Warranty Period: [Two] years pursuant to Manufacturer’s Warranty documentation from the date of invoice unless otherwise indicated by Product Manufacturer.

1. PRODUCTS
   * + 1. MANUFACTURERS

Specifier: Retain option in "Basis of Design Product" Paragraph for evaluating substitutions when required for project.

* + - * 1. Basis-of-Design Product: Provide glass door assemblies manufactured by dormakaba USA, Inc.; (844) 773-2669; email: [specifications@dormakaba.com](mailto:specifications@dormakaba.com) ; website: [www.dormakaba.us](http://www.dormakaba.us).
        2. Source Limitations: Provide all-glass entrance assemblies including glass panels, fittings and hardware, and accessories through one source from a single manufacturer.
      1. ALL-GLASS ENTRANCE ASSEMBLIES
         1. Accessibility Standard: Comply with applicable provisions in ADA-ABA Accessibility Guidelines for Buildings and Facilities [and] [ICC A117.1] [requirements of authorities having jurisdiction].
         2. All-Glass Entrance Assembly Configurations: [Exterior] [Interior] tempered-glass frameless entrance assembly, with perimeter fittings, [patch fitting mountings] [rail fitting mountings,] and supports, door pivots [, closers] [, locks] [, and] [accessories].

Manual-Swinging, All-Glass Entrance Doors:

[Patch fittings] [Rail fittings] at head and [Patch fittings] [Rail fittings] at sill [, and lock at sill of swing side] [, and for lock and strike].

Single Door: Size as scheduled [, single-action] [, double-action].

Double Door: Size as scheduled [, single-action] [, double-action].

Door Supports: [Adjacent glass panels] [Building structure indicated on Drawings] [Metal frame specified in [insert section #].

[All-Glass Entrance,] [Sidelights] [, and] [Transoms] [, and Fins]: Glass panels of material and thickness specified, of size indicated on Drawings, held within [dry gasket glazing channel] [glazing U channels] [Rail] [Patch] perimeter fittings [, including mechanical channel at suspended transom].

* + - 1. PATCH FITTINGS

Specifier: Retain option for safety clamping fittings in "Patch Fittings, General" Paragraph below when required to secure free-hanging glass units. Verify requirements with dormakaba representative.

* + - * 1. Patch Fittings: Top and bottom patch fittings are to be 2" x 6-1/2" and are to be made up of 3 components: base fitting, insert and cover. The base fitting is to be cast aluminum with adjustable connecting screws, snap on covers (aluminum anodized, stainless steel, and glass as finish requires), with frame, and adjustable inserts are a combination of aluminum and hardened steel. Both the top and bottom patch fittings to have inserts to accommodate the pivot/closer mechanisms. Provide Fiber Gasket between glass and aluminum assembly, with the addition of a 2-part epoxy and corresponding gasket for laminated glass and doors over 330 lbs.

Specifier: Refer to dormakaba literature for weight and glass thickness capacities and limitations for dormakaba Universal, MUNDUS, and EA patch fittings.

* + - * 1. Patch Fittings:

Basis of Design, **dormakaba [Universal] [MUNDUS Premium] [MUNDUS Comfort] Center Hung Patch Fittings**.

Basis of Design, **dormakaba EA Offset Patch Fittings**.

Clip-on Cover Material and Finish:

Aluminum, [clear anodized] [dark bronze color anodized] [black color anodized] [aluminum color anodized] [stainless steel color anodized].

Aluminum, [Brass-clad aluminum] [Bronze-clad aluminum] [Stainless-steel-clad aluminum].

Aluminum, powder coated, <match Architect's custom color> <insert color>.

Brass, [satin, without lacquer] [polished, without lacquer].

Bronze, [satin, without lacquer] [polished, without lacquer].

Stainless steel, [satin] [polished].

Glass [black] (**MUNDUS only)**

* + - * 1. Materials for base plates, components, and covers:

Aluminum: ASTM B 221 (ASTM B 221M), with strength and durability characteristics of not less than Alloy 6063-T5.

Bronze Cladding: ASTM B 36/B 36M, alloy as standard with manufacturer.

Brass Cladding: ASTM B 36/B 36M, alloy as standard with manufacturer.

Stainless-Steel Cladding: ASTM A 666, Type 304.

Glass (**MUNDUS only)**

Specifier: Retain applicable door hardware components in "Door Hardware and Fittings" Article. Show location of door hardware components on Drawings.

* + - 1. RAIL FITTINGS
         1. Rail Fittings, General: All-glass clamping fittings in types, sizes, quantities, and mounting locations recommended by manufacturer for glass door types, sizes, and operation and glass panel configurations.

Basis of Design, **dormakaba DRS Rails**.

Material and Finish:

Aluminum, [clear anodized] [dark bronze color anodized] [black color anodized] [aluminum color anodized] [stainless steel color anodized].

Aluminum, [Brass-clad aluminum] [Bronze-clad aluminum] [Stainless-steel-clad aluminum].

Aluminum, powder coated, <match Architect's custom color> <insert color>.

Brass, [satin, without lacquer] [polished, without lacquer].

Bronze, [satin, without lacquer] [polished, without lacquer].

Stainless steel, [satin] [polished].

Rail Configurations:

Top Rail: [2-1/2 inches (64 mm)] [3-5/8 inches (92 mm)] [4 inches (102 mm)] [6 inches (152 mm)] [10 inches (254 mm)] by length required for door size indicated.

Profile: [Square] [Tapered].

Hardware: With manufacturer's standard pivot [and lock].

Bottom Rail: [2-1/2 inches (64 mm)] [3-5/8 inches (92 mm)] [4 inches (102 mm)] [6 inches (152 mm)] [10 inches (254 mm)] by length required for door size indicated.

Profile: [Square] [Tapered].

With manufacturer's standard pivot [and lock].

End Caps: Manufacturer's standard precision-fit end caps for rail fittings.

* + - * 1. Materials:

Aluminum: ASTM B 221 (ASTM B 221M), with strength and durability characteristics of not less than Alloy 6063-T5.

Bronze Cladding: ASTM B 36/B 36M, alloy as standard with manufacturer.

Brass Cladding: ASTM B 36/B 36M, alloy as standard with manufacturer.

Stainless-Steel Cladding: ASTM A 666, Type 304.

Specifier: Retain applicable door hardware components in "Door Hardware and Fittings" Article. Show location of door hardware components on Drawings.

dormakaba offers a wide array of applicable door hardware options for interior glass door assemblies. Consult dormakaba representative for additional options, including electronic access controls.

2.5 SLIDING DOOR ASSEMBLIES

Specifier: Note that if space has 10 or more occupants, sliding doors must be equipped with a breakaway function not available with sliding door units. dormakaba sliding interior doors may be used in rooms with occupancy of less than 10, or in spaces with 10 or more occupants room equipped with a second means of egress. Verify requirements with local code authorities.

* + - * 1. Accessibility Standard: Comply with applicable provisions in ADA-ABA Accessibility Guidelines for Buildings and Facilities] [and] [ICC A117.1] [requirements of authorities having jurisdiction].
        2. Door Panels:

[Glass panels of material and thickness specified, of size indicated on Drawings.]

[Wood panels of material and thickness specified, of size indicated on Drawings.] (MUTO, RS/DRS120 only)

* + - * 1. [Sidelights: Glass panels of material and thickness specified, of size indicated on Drawings.]
        2. Sliding Door Track: Full-width extruded aluminum track with end caps, [2-3/4 inch (69 mm) high (MUTO)] [5 5/8” (143 mm) high (RS/DRS120)] [Full width tubular stainless track rod 25 mm diameter (MANET)], designed for operation, size, and weight of panel door, with factory-finished track with roller carriers, integrated end-of-travel stops, and floor guide.

Finish: Anodic Finish: AAMA 611-12, Class II, 0.010 mm or thicker.

Color: [Clear] [Match No. 4 satin brushed stainless steel] [Black Anodized].

Finish: Clad Aluminum (RS/DRS120 only)

Brass, [satin, without lacquer] [polished, without lacquer].

Bronze, [satin, without lacquer] [polished, without lacquer].

Stainless steel, [satin] [polished].

Material: Stainless Steel (MANET Only)

Stainless steel, [304] [316 for Wet Environments].

Specifier: Retain one or more track mounting methods below as required for project. Indicate requirements for blocking or secondary structural supports on Drawings.

* + - * 1. Track Mounting:

Ceiling surface-mounted.

Wall mountedCeling recessed mounted (MUTO or RS/DRS120 only)

Glass Mounted (MUTO or MANET only)

* + - * 1. Door Panel Carriers:

[(MUTO,RS/DRS120) Concealed trolley system designed for operation, size, and weight of glass panel door, with ball-bearing wheels, and with [clamp-on attachment to glass panels requiring no glass penetration.]

[(MANET) [Counterunk single point roller carriers] [Clamping disk single point roller carriers]

* + - * 1. Manual Sliding Door Operation:

Specifier: Retain single door, synchronized door pair subparagraph below or both as required for Project.

Sliding doors.

Basis of Design: dormakaba MUTO L 80.

Basis of Design: **dormakaba MUTO XL 150**.

Basis of Design: dormakaba MUTO XL 80 Telescopic.

Basis of Design: dormakaba [RS] [DRS] 120

Basis of Design: dormakaba MANET Sliding

Sliding doors with cushioned close.

Basis of Design: dormakaba MUTO L 80 DORMOTION.

Basis of Design: **dormakaba MUTO XL 150 DORMOTION**.

Basis of Design **dormakaba MUTO XL 120 DORMOTION Self Close.**

Specifier: Synchronized door pair operation enables manually pulling on one door leaf to operate both leaves of door pair.

Synchronized door pair with regulated sliding.

Basis of Design: **dormakaba MUTO Synchro**.

Basis of Design: dormakaba [RS] 120 Synchro

Specifier: Retain optional "Sidelights" Paragraph where required for Project.

* + - * 1. Sidelights: Captured by U channels integrated with door top track assembly. Bottom of sidelites held within [dry gasket glazing channel] [glazing U channels] [glazing clamps] as indicated on Drawings.
  1. POINT FITTINGS

1. Provide dormakaba MANET Compact Pivoting Doors and Entrance configurations shown on architectural drawings, unless otherwise indicated, and as follows:
   1. Material: [Type 304 Stainless Steel] [Type 316 Stainless-steel]
   2. [Full height pivoting rod] [Short pivoting rod]
   3. [Countersunk single point fittings] [Clamping disk single point fittings]

Specifer: Maximum door weight is 80 kg (180 lb). Maximum door height is 2500 mm (98”). Maximum door width is 1200 mm (48”).

2.7DOOR HARDWARE

* + - * 1. General: Heavy-duty entrance door hardware units in sizes, quantities, and types recommended by manufacturer for all-glass entrance systems indicated. For exposed parts, match metal and finish of rail fittings.
        2. Concealed Transom Closers and Bottom Pivots: Center hung; BHMA A156.4, Grade 1. Provide housings, bottom arms, top walking beam pivots, mounting plates, auxiliary stop, and accessories.

Basis of Design: **dormakaba, RTS88 Series.**

Swing: Single or double acting as indicated on Drawings[, with positive dead stop] [and hold-open].

Hold Open: [105 degree] [90 degree].

Opening Force: Comply with interior door operating force of authorities having jurisdiction for [accessibility requirements] [and] [egress doors].

Specifier: Typically specify dormakaba BTS75 Floor Closer, which is suitable for thin slab applications, and is equipped with a fixed hold-open function; it is suitable for doors weighing up to 260 lb. BTS80 Floor Closer is available for heavy doors and is equipped with an adjustable hold-open function; it is suitable for doors weighing up to 660 lb. Note that BTS80 may not meet ADA-stipulated 5 lb. opening force requirements if applicable.

* + - * 1. Concealed Floor Closers and Top Pivots: Center hung; BHMA A156.4, Grade 1. Provide housings, bottom insert, top walking beam pivots, mounting plates, and accessories.

Basis of Design: **dormakaba,** [**BTS75**][**BTS80**] **Series**.

Swing: Single or double acting as indicated on Drawings.

Hold Open: [Fixed] [Adjustable].

Opening Force: Comply with interior door operating force of authorities having jurisdiction for [accessibility requirements] [and] [egress doors] .

* + - * 1. Self-Closing Double Acting Hinge: With self-closing function, hold-open feature, and closed position adjustment.

Basis of Design: dormakaba, TENSOR Self-Closing Double Acting Hinge.

Swing: Double-acting [with positive dead stop] [with cushion stop].

Hold Open: 90 degree.

Opening Force: Not exceeding 9 lbf/ft. (12 Nm) torque.

Opening Force: Comply with interior door operating force of authorities having jurisdiction for [accessibility requirements] [and] [egress doors].

Endurance Testing: Not less than 500,000 cycles.

Mounting: [Frame mounting with embedded mounting plate] [Surface mounting with surface mounting plate] [Glass-to-glass mounting] [As indicated on Drawings].

Finish: [Aluminum satin brass] [Aluminum EV1Deco] [Aluminum satin stainless] [Polished chrome].

* + - * 1. Automatic Door Operators: Compact electromechanical swing door operator with solid-state controller; BHMA A156.19, power assist, low energy, with opening force required of not more than 5 lbf (22 N); single door, [one-way] [two-way] operation, surface-mounted; size recommended by door operator manufacturer for weight of door.

Refer to Section 08 71 13.

* + - * 1. Concealed Low-Energy In-Floor Door Operator and Top Pivots: [Center] [Offset] hung; BHMA A156.19. Provide housings, bottom insert, top pivots, mounting plates, and accessories.

Refer to Section 08 71 13.

Specifier: A wide variety of dormakaba decorative operating trim designs are suitable for use with dormakaba swinging doors.

* + - * 1. Pulls and Handles: [One-sided] [Back-to-back].

Design: Vertical bar, 1 ¼” diameter, [12 inch] [18 inch] [36 inch] [42 inch] [60 inch] [Custom Size as selected by Architect].

Basis of Design: **dormakaba, TG 9387 Ladder Pull**.

Design: Vertical bar, 1 ¼” diameter, [49 inch] [60 inch] [72 inch] [84 inch] [Custom Size as selected by Architect].

Basis of Design: **dormakaba, TG138 Non-Locking Ladder Pull**.Basis of Design: 1” tubular **dormakaba, Economy Pull Handles.**

[Back to Back Pulls: [10 inch] [12 inch]]

[4” Offset Back to Back Pulls: [10 inch] [12 inch]]

[Push/Pull: [10” x 27 ¾”] [12’ x 27 ¾”]]

Design: Straight Fixing Posts and MANET Clamping Disks, [13 ¾ inch] [28 3/8 inch] [48 13/16 inch] [69 5/16 inch].

Basis of Design: **dormakaba, MANET Ladder Pull**.

Design: Straight Pulls with Mitered Corners/Posts, [Custom size as selected by Architect].

Basis of Design: **dormakaba, 9335 Decorative Pull**.

Design: Arced shape matching fitting profile, [13-3/4 inch (350 mm)] [29-1/2 inch (750 mm)]

Basis of Design: **dormakaba, ARCOS Handle Bar**.

Design: BEYOND System Pulls [17 ¾ inch] [23 5/8 inch] [35 7/16 inch].

Basis of Design: **dormakaba, BEYOND Handle**.

Design: [Specifier insert design] [As selected by Architect from manufacturer's standard designs].

Design: Vertical bar or curved

Basis of Design: dormakaba, [GP1000DM], [GP1100DM], [GP1300DM]

Basis of Design: dormakaba, [DG1000DM], [DG1100DM], [DG1300DM]

Exterior Pull: One side; design as selected by Architect from manufacturer's standard designs. Specifier: Retain "Exit Device" Paragraph when glass panel partition swinging doors are part of egress from assembly occupancy.

* + - * 1. Glass Style Exit Devices:

Basis of Design: **dormakaba, GP1000, GP1100**.

Devices shall be tested and approved by BHMA for ANSI 156.3, Grade 1.

Devices shall be UL 305 and ULC-S132 tested to the Standard for Panic Hardware.

Devices shall be able to be mounted on tempered or tempered laminated glass doors with thicknesses from 3/8” through 7/8”.

Specifier: Consult factory for doors over 1 ¾”.

Devices shall be capable of being mounted on Metal and Wood Doors with appropriate extensions and accessories to accommodate door thicknesses.

Specifier: Remove for California projects.

Function: Device latch to retract when actuating portion of device is depressed with 15 lbs. of pressure.

Devices to have “Dogging” feature: Operation by push-pull when latch toggle is locked down (dogged).

Latching: ***<< Fixed strike; Electric strike for access control – at top latching devices only>>***

Latchbolt to be adjustable

Exterior Pull: One side; design as selected by Architect from manufacturer's standard designs. Pull to have the ability to be adjusted horizontally and vertically +/- ½” for precise installation.

Actuating portion of device to have the ability to be adjusted horizontally and vertically +/- ½” for precise installation.

Provide ***<< electronic; conventional; Large format interchangeable core (LFIC); Small format interchangeable core (SFIC); or>>*** type cylinders, ***with <<five-pin; six-pin; seven-pin; or \_\_\_\_\_\_>>*** core in compliance with BHMA A156.5 at locations indicated.

Coordinate cylinder requirements as required for related sections.

* + - * 1. Mechanical Locks and Latches:

Design: Vertical bar, 1 ¼” diameter, [49 inch] [60 inch] [72 inch] [84 inch] [Custom Length].

Basis of Design: **dormakaba, TG138 Locking Ladder Pull**.

Basis of Design: dormakaba, GP1300 Top or Bottom (clarify naming)

**[Option for ADA – staggered at 10” from finished floor on pull side.]**

Design: Top Locking

Basis of Design: dormakaba GP Series GP-1000 DB

Basis of Design: dormakaba DG Series DG1000DB Design: Bottom Locking

Basis of Design: dormakaba GP Series GP-1100 DB

Basis of Design: dormakaba DG Series DG1100 DB

Design: [Top Locking] [Bottom Locking] [Top and Bottom Locking]

Basis of Design: dormakaba GP Series GP-1300 DB

Basis of Design: dormakaba DG Series DG1300 DB

Provide ***<< electronic; conventional;); Small format interchangeable core (SFIC); or>>*** type cylinders, ***with <<five-pin; six-pin; seven-pin; or \_\_\_\_\_\_>>*** core in compliance with [BHMA A156.5](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fglobal.ihs.com%2Fdoc_detail.cfm%3Frid%3DBSD%26document_name%3DANSI%2520A156.5&data=02%7C01%7Cleah.convery%40dormakaba.com%7Ca07f6a3fa99f4fe99f5008d79ea3ff6b%7Cb0f69499bd40437dbef2d41cf6f6a50e%7C0%7C0%7C637152299506181494&sdata=oSUC1vmE7pvRPudirY9p4HzyJVp993plnCSgy%2BIl5NU%3D&reserved=0) at locations indicated.

Coordinate cylinder requirements as required for related sections.

Provide proper backplate to accommodate cylinders being provided.

* + - * 1. Electromagnetic Locks: BHMA A156.23; electrically powered; with electromagnet attached to transom or frame and armature plate attached to door.

Basis of Design: dormakaba, EMSL Series Shear Lock.

Basis of Design: dormakaba, EML 370 Series Magnetic Lock.

* + - * 1. Electromagnetic slide-bolt lock. Magnet in jamb, armature hidden in track channel. Operating on [12/24]vdc. Fully concealed after installation. Basis of Design: dormakaba, MUTO Elock
        2. Single-Door and Active-Leaf Locksets: Manufacturer’s standard patch dead-bolt locksets.

Mortise lock and housing:

Basis of Design: **dormakaba, CLM9000 Series** <insert function, lever, and cylinder information>.

Specifier: Three dormakaba locksets below utilize Euro profile key cylinders.

Basis of Design: **dormakaba, Studio Series** <insert function, lever, and cylinder information>.

Basis of Design: **dormakaba, Junior Office Series** <insert function, lever, and cylinder information>.

Basis of Design: **dormakaba, ARCOS Series** <insert function, lever, and cylinder information>.

Inactive-Leaf Locking Device: Manufacturer’s standard hook-bolt locksets.

Bottom patch fitting dead bolt engaging a dust proof strike operated by key outside and cylinder or thumb turn inside.

Lock and Latch Housings: Patch mounting to glass panel door, with matching strike mounted in housing on adjacent glass panel.

Design: [Specifier insert design] [As selected by Architect from manufacturer's standard designs].

Levers: Wrought, with wrought escutcheons.

Specifier: Insert design

Design: [As selected by Architect from manufacturer's standard designs].

Specifier: Retain one of two "Lock Cylinder" paragraphs below.

* + - * 1. Provide << electronic; conventional; Large format interchangeable core (LFIC); Small format interchangeable core (SFIC); or>> type Mortise cylinders, with <<five-pin; six-pin; seven-pin; or \_\_\_\_\_\_>> core in compliance with [BHMA A156.5](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fglobal.ihs.com%2Fdoc_detail.cfm%3Frid%3DBSD%26document_name%3DANSI%2520A156.5&data=02%7C01%7Cleah.convery%40dormakaba.com%7Ca07f6a3fa99f4fe99f5008d79ea3ff6b%7Cb0f69499bd40437dbef2d41cf6f6a50e%7C0%7C0%7C637152299506181494&sdata=oSUC1vmE7pvRPudirY9p4HzyJVp993plnCSgy%2BIl5NU%3D&reserved=0) at locations indicated.
        2. Coordinate cylinder requirements as required for related sections.
        3. Lock Cylinders: As specified in Section 08 71 00 "Door Hardware."
        4. Weather Stripping: [Pile] [Brush] type; replaceable without removing all-glass entrance doors from pivots.

Specifier: Select one or more of the glass types from list below as required for project. If more than one glass type is required, retain the optional drawing designations and indicate locations of each type on Drawings. Consult dormakaba representative for availability of additional glass panel options.

* + - 1. GLASS PANELS
         1. Glass Panels, General:

Coordinate with Section 08 80 00 Glazing.

Follow NGA – National Glass Association/GANA – Glass Association of North America Guidelines.

Provide glass panels that comply with 16 CFR 1201, Category II requirements for safety glazing. Permanently mark glazing with certification label of the SGCC.

Provide glass panels with exposed edges machine ground and flat polished.

Provide holes and cutouts in glass to receive hardware, fittings, and accessories prior to tempering glass. Do not cut, drill, or make other alterations to glass after tempering.

Fully temper glass using horizontal (roller-hearth) process, and fabricate so that when glass is installed, roll-wave distortion is parallel with bottom edge of door or lite.

* + - * 1. Hardware intended for use with glass thickness [3/8 inch (9.5 mm) to 13/16 inch (20 mm) tempered glass]
      1. FABRICATION
         1. General: Fabricate all-glass door assemblies in sizes, profiles, and configurations shown on Drawings.

1. EXECUTION
   * + 1. EXAMINATION
          1. Examine door opening to determine if work is within all-glass entrance manufacturer's required tolerances and ready to receive work. Proceed with installation once conditions affecting installation and performance meet manufacturer's requirements. All sides of an opening should be level within 1/8”.
       2. DOOR INSTALLATION
          1. General: Comply with all-glass entrance manufacturer's written installation instructions and approved shop drawings.
          2. Install all-glass door assemblies after other finishing operations have been completed.
          3. Coordinate installation of recessed products prior to installation of adjacent materials and finishes.
          4. Set assembly units level, plumb, and true to line, with uniform joints.
          5. Ensure floor is level to maintain proper door undercut to avoid doors engaging with the finish floor during the operation of the door.
          6. Maintain uniform clearances between adjacent components.
          7. Secure housings and components to building structure using appropriate fasteners suitable for application.
          8. Provide ¾” wood blocking between finished material and stud support structure.
          9. Ensure all required wiring for electrified components are run and tested prior to installation of door.
       3. ADJUSTING
          1. Adjust doors and hardware to produce smooth operation and uniform fit per manufacturer's written instructions.
          2. Adjust door closers to required timing and force per manufacturer's written instructions.
          3. Adjust finish hardware components for smooth operation per manufacturer's written instructions.
          4. Replace damaged glass panels and accessories.
          5. Ensure all required wiring for electrified components are tested and in proper working order prior to installation of door.
       4. CLEANING
          1. Clean glass panels in accordance with glass manufacturer's written instructions. Do not use cleaning agents or methods not approved by glass manufacturer.
          2. Clean exposed metal surfaces to factory new appearance.
       5. HARDWARE SETS

SET GL-1

DOOR:

EACH TO HAVE:

1 DESCRIPTION SKU DORMAKABA

END OF SECTION

**Additional Specifiers Notes**

**Substitution Reviews**: When reviewing substitution requests for other products for compliance with this specification, dormakaba recommends particular attention to the following issues:

Fully concealed door operating mechanisms: Design details of dormakaba's all-glass door assemblies are what give them the visual appeal that caused them to be selected as a basis of design

**Coordination**: Make sure you coordinate the following:

● Locations, dimensions, and operation of doors including active and inactive leaves and swing travel

● Elevations indicating details of special decorative glass elements

● Details of floor finishes in relation to recessed bottom pivot housing.

● Details of opening finishes in relation to overhead closer header plate.