SECTION 08 34 20

IMPACT RESISTANT DOORS, ALUMINUM AND VINYL

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\*\* NOTE TO SPECIFIER \*\* CGI Windows and Doors; impact resistant doors, aluminum and vinyl.  
This section is based on the products of CGI Windows and Doors, which is located at:  
3780 W. 104th St.  
Hialeah, FL 33018  
Toll Free Tel: 800-442-9042   
Tel: 305-593-6590  
Fax: 305-593-6592  
Email: [request info (SDawson@cgiwindows.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=CGI+Windows+and+Doors&coid=42479&rep=&fax=305-593-6592&message=RE:%20Spec%20Question%20(08342cgi):%20%20&mf=)  
Web: <http://www.cgiwindows.com>   
 [ [Click Here](http://www.arcat.com/arcatcos/cos42/arc42479.html) ] for additional information.  
CGI Windows & Doors is the premier manufacturer of hurricane impact resistant windows and doors. Produced to the most exacting industry standards, our high performance, high aesthetic product collections offer advanced hurricane protection of home and commercial structures, in both new and existing construction. Whether your choice is aluminum or vinyl, in addition to using impact-resistant laminated glass and the finest hardware, our windows and doors exude strength and beauty - a function of our workmanship, pride and engineering excellence.  
CGI was the first hurricane window manufacturer in the United States to offer a line of impact resistant windows and doors that meets the Miami-Dade approved impact windows and doors with laminated glass. CGI products have easily passed the Miami-Dade County Large Missile test and have proven to withstand winds of nearly 300 MPH (483 KPH).

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Aluminum Doors: Impact resistant.
       1. Premium Series: (Estate collection series)
          1. French doors, sidelites and transoms. (450 series)
          2. Sliding glass doors. (560 series)
       2. Mid-Price Point: (Sentinel Collection Series)
          1. Sliding glass doors. (150 series)
          2. French doors and sidelites. (160 series)
          3. Balcony breeze doors. (165 series)
    2. Vinyl Doors: Impact resistant and energy efficient.(Targa series)
       1. Sliding glass doors. (7650 series)
       2. French doors. (7700 series)
  1. RELATED SECTIONS

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

* + 1. Section 06 10 00 - Rough Carpentry.
    2. Section 07 91 23 - Backer Rods.
    3. Section 08 53 13.20 - Vinyl Windows and Patio Doors.
    4. Section 08 83 13 - Mirrored Glass Glazing.
  1. REFERENCES

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

* + 1. ASTM International (ASTM):
       1. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
       2. ASTM C864 - Standard Specification for Dense Elastomeric Compression Seal Gaskets, Setting Blocks, and Spacers.
       3. ASTM E283 - Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.
       4. ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference.
       5. ASTM E547 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference.
    2. American Architectural Manufacturers Association:
       1. AAMA 803.3 - Narrow Joint Seam Sealers.
       2. AAMA 1302.5 - Voluntary Specification for Forced-Entry Resistant Aluminum Prime Windows.
       3. AAMA 2603 - Pigmented Organic Coatings on Aluminum.
       4. AAMA 2605 - High-Performance Organic Coatings on Aluminum.
    3. Americans with Disabilities Act (ADA).
    4. Florida Building Code (FBC) 2017 (6th Edition):
       1. Sections governing construction in High-Velocity Hurricane Zones (HVHZ).
       2. FBC 1620 - HVHZ Wind Loads (Structural).
       3. FBC 2410 - HVHZ General (Glass and Glazing).
       4. FBC 24121 - HVHZ Windows, Doors, Glass and Glazing.
    5. Miami-Dade County Test Application Standards (TAS) adopted by FBC:
       1. FBC TAS 201 - Impact Test Procedures.
       2. FBC TAS 202 - Criteria for Testing Impact and Nonimpact Resistant Building Envelope Components Using Uniform Static Air Pressure.
       3. FBC TAS 203 -Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.
    6. National Fenestration Rating Council (NFRC).
       1. NFRC 100 - Procedure for determining Fenestration Product U-factors.
       2. NFRC 200 - Procedure for determining Fenestration Product Solar Heat Gain Coefficient (SHGC) and Visible Transmittance (VT) at Normal Incidence.
  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. Indicate elevations, locations, markings, dimension, finishes and wind pressures.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum ten 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. WARRANTIES
     1. Warranty Period:
        1. Structural, Hardware and Certain Finishes: 10 years.
        2. Stress Cracks on Glass: 1 year.
        3. Delamination on Laminated Glass Units: 5 years.
        4. Insulated Glass; Sealed Component: 10 years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: CGI Windows and Doors, which is located at: 3780 W. 104th St.; Hialeah, FL 33018; Toll Free Tel: 800-442-9042 ; Tel: 305-593-6590; Fax: 305-593-6592; Email: [request info (SDawson@cgiwindows.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=CGI+Windows+and+Doors&coid=42479&rep=&fax=305-593-6592&message=RE:%20Spec%20Question%20(08342cgi):%20%20&mf=); Web: <http://www.cgiwindows.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 01 60 00 - Product Requirements.
  1. PERFORMANCE REQUIREMENTS
     1. Standards Compliance:
        1. Structural Test: ASTM E 330.
        2. Water Infiltration Resistance: ASTM E 547/E 331 and FBC TAS 202.
        3. Air Infiltration resistance: ASTM E 283.
        4. Windborne Debris Impact Resistance: Pass large missile impact test, pass cyclic pressure test following FBC TAS 203.
        5. Florida HVHZ rated doors.
        6. Glazing performance tested in accordance with NFRC standards.

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

* 1. ALUMINUM DOORS

\*\* NOTE TO SPECIFIER \*\* Delete basis or design paragraphs not required.

* + 1. Basis of Design: Estate Collection, 450 Series French Doors, Sidelites and Transoms; as manufactured by CGI Windows and Doors.
       1. Performance Requirements:

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

* + - * 1. Water Resistance, Out-Swing Sill: 15 psf (0.72 kPa) maximum.
        2. Water Resistance, In-Swing Sill: 7.5 psf (0.36 kPa) maximum.
        3. Saddle Threshold: ADA compliant. Not rated for water resistance.
        4. Forced Entry Test per AAMA 1302.5: Passed.
      1. Door Design:

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

* + - * 1. Swing Direction: As indicated on Drawings.
        2. Swing Direction: Out-swing configuration.
        3. Swing Direction: In-swing configuration.

\*\* NOTE TO SPECIFIER \*\* Custom sizes are available. Delete configuration and size options not required.

* + - * 1. Door Configuration: As indicated on Drawings.

Size: As indicated on Drawings.

Size: \_\_\_\_\_.

* + - * 1. Door Configuration: Single swing door.

Width: 26-9/16 inches (674 mm).

Width: 32-9/16 inches (827 mm).

Width: 34-9/16 inches (878 mm).

Width: 38-9/16 inches (979 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: Pair swing doors.

Width: 50-1/2 inches (1283 mm).

Width: 62-1/2 inches (1588 mm).

Width: 66-1/2 inches (1689 mm).

Width: 74-1/2 inches (1892 mm).

Width: \_\_\_\_\_.

* + - * 1. Self-Mating Sidelite:

Width: 13-1/4 inches (337 mm).

Width: 19-1/4 inches (489 mm).

Width: 25-1/4 inches (641 mm).

Width: 31-1/4 inches (794 mm).

Width: 33-1/4 inches (845 mm).

Width: 37-1/4 inches (946 mm).

Width: \_\_\_\_\_.

* + - * 1. Free-Standing Sidelite:

Width: 14-3/8 inches (365 mm).

Width: 20-3/8 inches (518 mm).

Width: 26-3/8 inches (670 mm).

Width: 32-3/8 inches (822 mm).

Width: 34-3/8 inches (873 mm).

Width: 38-3/8 inches (975 mm).

Width: \_\_\_\_\_.

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

* + - * 1. Unit Height: 80-3/4 inches (2051 mm).
        2. Unit Height: 96-3/4 inches (2457 mm).
        3. Unit Height: 108-3/4 inches (2762 mm).
        4. Unit Height: 120-3/4 inches (3067 mm).
        5. Unit Height: \_\_\_\_\_.
      1. Door Features:
         1. Door Panels: 2 inches (51 mm) thick; nominal door panels.
         2. Complete frame, threshold and weatherstripping.

\*\* NOTE TO SPECIFIER \*\* Delete glazing bead option not required.

* + - * 1. Glazing Beads: Extruded snap-on, contoured ogee profile; Colonial.
        2. Glazing Beads: Extruded snap-on, contemporary square profile.
        3. Extruded astragal adaptor.
        4. Extruded installation screw covers.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Delete glazing types and options not required.

* + - * 1. Type: 7/16 inch (11 mm) laminated.

Large Missile Rating, 3090 Door Panel: Positive 100 psf (4.79 kPa), negative 110 psf (5.27 kPa).

Large Missile Rating, 3686 Door Panel: Positive 70 psf (3.35 kPa), negative 70 psf (3.35 kPa).

Large Missile Rating, 30100 Door Panel: Positive 70 psf (3.35 kPa), negative 70 psf (3.35 kPa).

Color: Gray.

Color: Clear.

Color: Clear with High performance LoE 366; coating on No. 2 surface.

Color: Clear with High performance LoE 340; coating on No. 2 surface.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

Heat strengthened or tempered as required,

* + - * 1. Type: 1 inch (25 mm) insulated laminated.

Large Missile Rating: Positive 70 psf (3.35 kPa), negative 70 psf (3.35 kPa).

Color: Clear with High Performance LoE 366; coating on No. 2 surface.

Color: Clear with High Performance LoE 270; coating on No. 2 surface.

Color: Clear.

Color: Gray.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

Heat strengthened or tempered as noted.

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

* + - 1. Finish: Powder Coating per AAMA 2603: White.
      2. Finish: Powder Coating per AAMA 2603: Bronze.
      3. Finish: PVDF Coating per AAMA 2605: Bone White.
      4. Finish: PVDF Coating per AAMA 2605: Bronze
      5. Finish: PVDF Coating per AAMA 2605: Custom color to be selected by Architect.
      6. Finish: PVDF Coating per AAMA 2605: \_\_\_\_\_.
      7. Finish: Clear Anodized, NAAMM AA-C2241, 215R1, Class 1, minimum 0.7 mils, in natural aluminum color.
      8. Finish: Aspen Wood Grain,pre-treatment plus base powder coat with textured ink sublimation:
         1. Color: Hazelnut Brown.
         2. Color: Mahogany Red.
         3. Color: Walnut Brown.
      9. Construction: Heavyweight extruded aluminum sections for wet glazing, precision cut and assembled with sealant filled hairline joints and no visible screws. Provide grooves in extrusions to receive 3 lines of weather stripping where doors abut frames.
         1. Member Wall Thickness: 0.125 inch (3.2 mm) minimum; 0.150 inch (3.8 mm) at hardware mounting locations.
         2. Door Corner Construction: Assemble using two 3/8 inch (8.9 mm) threaded compression rods in rails, secured at each end with washers and hex nuts.
         3. Glazing Beads: Snap-in design, for exterior wet glazing, .060-inch (1.5 mm) wall thickness, with 0.50 inch (12.7 mm) glass bite for impact-resistant glazing.

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

* + - 1. Hardware, Residential:

\*\* NOTE TO SPECIFIER \*\* Delete hinges, levers and lock options not required.

* + - * 1. Hinges: Hager. Standard weight, three knuckles with concealed anti-friction nylatron bearing, 134 metal leaves with 0.312 (7.92 mm) concealed metal pin and plug.

Hinges: 4-1/2 x 4 inch (114 x 102 mm), solid brass.

Hinges: 4-1/2 x 4 inch (114 x 102 mm), stainless steel.

Hinges: 4-1/2 x 4 inch (114 x 102 mm), antique nickel.

* + - * 1. Lock: Single cylinder deadbolt.
        2. Lock: Concealed CGI patented three-point locking mechanism, with integrated Baldwin key lock cylinder and thumbturn; single action/one step locking.
        3. Door panels pre-bored for levers.
        4. Levers: Baldwin, passage type, Wave style. Finish: PVD Polished Brass.
        5. Levers: Baldwin, passage type, Wave style. Finish: PVD Satin Nickel.
        6. Levers: Baldwin, passage type, Wave style. Finish: Venetian Bronze.
        7. Levers: Baldwin, passage type, So-Ho style. Finish: PVD Satin Nickel.
        8. Dummy Levers: At inactive panels.
        9. Flushbolts at inactive panels.
      1. Hardware, Commercial:
         1. Concealed Commercial three-point MS deadbolt with integrated key lock cylinder and thumbturn; single action/one step locking.
         2. Exterior cylinder and interior thumbturn.
         3. Interior Push bar and exterior pull handle.
         4. Finish: Clear. Silver aluminum.
      2. Included Options:

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

* + - * 1. Panic Hardware. Jackson series 2086 concealed vertical rod exit device.
        2. Extruded double applied; inside and outside raised profile, 1 inch (25 mm) muntins; for laminated glass.
        3. Extruded double applied, raised profile - outside, flat - inside, 1 inch (25 mm) muntins; for insulated laminated glass.
        4. Muntin grids inside insulated glass.

\*\* NOTE TO SPECIFIER \*\* 3-1/2 inch muntins not available with insulated glass. Delete if not required.

* + - * 1. Extruded double applied raised profile 3-1/2 inch (89 mm) muntins.
        2. Ture horizontal muntin, 4-5/8 inch (117 mm) wide.
        3. Aluminum and wood panel, 1/2 inch (13 mm) thick; in lieu of glass.
        4. Aluminum and wood panel, 1 inch (25 mm) thick; in lieu of glass.
      1. Sidelite and Transom Panels:
         1. Product: Series 450 Sidelite, transom Panels, and Mullions, by CGI.
         2. Design and Performance: Sidelite and transom panels shall interlock with each other and with any CGI approved vertical aluminum tube mullions at all points of interface, to form a structural unit at each opening, and shall comply with impact, wind, water and structural deflection requirements.
         3. For assemblies with an overall height of less than 108.75 inches (2762 mm) utilize self-mating sidelites. For assemblies with overall height of 108.75 inches (2762 mm) or greater, provide structural mullion between sidelites and sidelites and between sidelites and doors.

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

* + - * 1. Transoms: Utilize CGI door material transoms with integrated transom/door framing system.
        2. Transoms: Utilize window material transoms with aluminum tube mullion.
    1. Basis of Design: Estate Collection, 560 Series Sliding Glass Doors; as manufactured by CGI Windows and Doors.
       1. Performance Requirements:

\*\* NOTE TO SPECIFIER \*\* Delete water resistance, sill riser options not required.

* + - * 1. Water Resistance, 2-1/2 inch (64 mm) Sill Riser: 9 psf (0.43 kPa) maximum.
        2. Water Resistance, 3-1/16 inch (78 mm) Sill Riser: 12 psf (0.57 kPa) maximum.
        3. Water Resistance, 3-11/16 inch (94 mm) Sill Riser: 15 psf (0.72 kPa) maximum.
        4. Water Resistance, 4-1/4 inch (108 mm) Sill Riser: 18 psf (0.86 kPa) maximum.
        5. Forced Entry Test per AAMA 1302.5: Passed.
      1. Door Design:

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

* + - * 1. Door Configuration: As indicated on Drawings.

Size: As indicated on Drawings.

Size: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 2 Panel.

Panel Configuration: OX.

Panel Configuration: XO.

Panel Configuration: XX.

Panel Configuration: XX-R.

Width: 48 inches (1219 mm).

Width: 60 inches (1524 mm).

Width: 72 inches (1829 mm).

Width: 96 inches (2438 mm).

Width: 120 inches (3048 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 3 Panel.

Panel Configuration: OXO.

Panel Configuration: OXO-R.

Width: 72 inches (1829 mm).

Width: 90 inches (2286 mm).

Width: 108 inches (2743 mm).

Width: 144 inches (3658 mm).

Width: 180 inches (4572 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 4 Panel.

Panel Configuration: OXXO.

Panel Configuration: XXXX.

Width: 96 inches (2438 mm).

Width: 120 inches (3048 mm).

Width: 144 inches (3658 mm).

Width: 192 inches (4677 mm).

Width: 240 inches (6096 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 3-Track, 3 Panel.

Panel Configuration: XXX.

Panel Configuration: XXX-R.

Panel Configuration: XXO.

Panel Configuration: OXX.

Width: 72 inches (1829 mm).

Width: 90 inches (2286 mm).

Width: 108 inches (2743 mm).

Width: 144 inches (3658 mm).

Width: 180 inches (4572 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 3-Track, 6 Panel.

Panel Configuration: XXXXXX.

Panel Configuration: OXXXXO.

Width: 144 inches (3658 mm).

Width: 180 inches (4572 mm).

Width: 216 inches (5486 mm).

Width: 288 inches (7315 mm).

Width: 360 inches (914 mm).

Width: \_\_\_\_\_.

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

* + - * 1. Unit Height: 80 inches (2032 mm).
        2. Unit Height: 96 inches (2438 mm).
        3. Unit Height: 108 inches (2743 mm).
        4. Unit Height: 120 inches (3048 mm).
        5. Unit Height: \_\_\_\_\_.
      1. Door Features:
         1. Bottom rail: 8-1/8 inch (206 mm) tall sightline.
         2. Fasteners: Stainless steel.
         3. Sill: Class 1 clear anodized aluminum with internal drain chamber.
         4. Interior Sill Face Trim; Waterbar Adaptor: Painted to match door frame.

\*\* NOTE TO SPECIFIER \*\* Delete glazing bead option not required.

* + - * 1. Glazing Beads: Extruded snap-on, contoured ogee profile; Colonial.
        2. Glazing Beads: Extruded snap-on, contemporary square profile.
      1. Glazing:

\*\* NOTE TO SPECIFIER \*\* Delete type and glazing options not required.

* + - * 1. Type: 7/16 inch (11 mm) annealed, laminated.

Large Missile Rating, 4 x 8 foot (1219 x 2438 mm) Door Panel: Positive 83.5 psf (4 kPa), negative 83.5 psf (4 kPa).

Large Missile Rating, 4 x 10 foot (1219 x 3048 mm) Door Panel: Positive 70 psf (3.35 kPa), negative 70 psf (3.35 kPa).

Color: Gray.

Color: Clear.

Color: Clear with high performance LoE 366; coating on No. 2 surface.

Color: Clear with high performance LoE 340; coating on No. 2 surface.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 7/16 inch (11 mm) heat strengthened, laminated.

Large Missile Rating, 4 x 8 foot (1219 x 2438 mm) Door Panel: Positive 120 psf (5.75 kPa), negative 167 psf (8 kPa).

Large Missile Rating, 4 x 10 foot (1219 x 3048 mm) Door Panel: Positive 120 psf (5.75 kPa), negative 140 psf (6.7 kPa).

Large Missile Rating, 5 x 10 foot (1524 x 3048 mm) Door Panel: Positive 90 psf (4.31 kPa), negative 90 psf (4.31 kPa).

Color: Gray.

Color: Clear.

Color: Clear with high performance LoE 366; coating on No. 2 surface.

Color: Clear with high performance LoE 340; coating on No. 2 surface.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 1 inch (25 mm) insulated, annealed, laminated.

Large Missile Rating, 4 x 8 foot (1219 x 2438 mm) Door Panel: Positive 83.5 psf (4 kPa), negative 83.5 psf (4 kPa).

Large Missile Rating, 4 x 10 foot (1219 x 3048 mm) Door Panel: Positive 70 psf (3.35 kPa), negative 70 psf (3.35 kPa).

Color: Clear with high performance LoE 366; coating on No. 2 surface.

Color: Clear with high performance LoE 270; coating on No. 2 surface.

Color: Gray

Color: Clear.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 1 inch (25 mm) insulated, heat strengthened, laminated.

Large Missile Rating, 4 x 8 foot (1219 x 2438 mm) Door Panel: Positive 120 psf (5.75 kPa), negative 167 psf (8 kPa).

Large Missile Rating, 4 x 10 foot (1219 x 3048 mm) Door Panel: Positive 120 psf (5.75 kPa), negative 140 psf (6.7 kPa).

Large Missile Rating, 5 x 10 foot (1524 x 3048 mm) Door Panel: Positive 90 psf (4.31 kPa), negative 90 psf (4.31 kPa).

Color: Clear with high performance LoE 366; coating on No. 2 surface.

Color: Clear with high performance LoE 270; coating on No. 2 surface.

Color: Gray.

Color: Clear.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

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

* + - 1. Finish: Powder Coating per AAMA 2603: White.
      2. Finish: Powder Coating per AAMA 2603: Bronze.
      3. Finish: PVDF Coating per AAMA 2605: Bone White.
      4. Finish: PVDF Coating per AAMA 2605: Bronze.
      5. Finish: PVDF Coating per AAMA 2605: Custom color to be selected by Architect.
      6. Finish: PVDF Coating per AAMA 2605: \_\_\_\_\_.
      7. Finish: Clear Anodized, NAAMM AA-C2241, 215R1, Class 1, minimum 0.7 mils, in natural aluminum color.
      8. Finish: Aspen Wood Grain, pre-treatment plus base powder coat with textured ink sublimation:
         1. Color: Hazelnut Brown.
         2. Color: Mahogany Red.
         3. Color: Walnut Brown.
      9. Construction: Heavyweight extruded aluminum sections for wet glazing, precision cut and assembled with sealant filled hairline joints. Provide grooves in extrusions to receive weather stripping where doors abut frames.
         1. Member Wall Thickness: At least 0.080 inch (2 mm);
         2. Framing Rails, Astragals, and Interlock Members Thickness: 0.125 inch (3.2 mm).
         3. Glass Bite Thickness: At least 0.812 inch (20.6 mm).
         4. Door Frame Construction: Assembled using 3 No. 12 stainless steel screws per corner.
         5. Door Sill/Track: Tubular, single piece, class 1, clear anodized, designed to drain to exterior through the tubular section.

Beveled Adaptor; 0.75 inch (19.05 mm) beveled area. Paint to match balance of doors.

* + - * 1. Glazing Beads: Snap-on design, for exterior wet glazing, with at least 0.812 inch (20.64 mm) glass bite for impact resistant glazing.
      1. Hardware:
         1. Lock: Commercial grade maximum security stainless steel 0.625 (15.88 mm) inch thick laminated hook bolt lock with all stainless-steel mechanism.
         2. Keeper: 3.88 inch (98.55 mm) long by 0.875 inch (22.22 mm) wide Custom cast stainless steel HD keeper, 0.25 (6 mm) inch thick at lock engagement points and secured with minimum three No. 10 stainless steel screws secured into minimum 0.125 inch (3.2 mm) thick aluminum at frame jamb.
         3. Thumbturn: Commercial grade 1.156 inch (29.36 mm) diameter mortised cam thumbturn on Interior solid brass cylinder.

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

* + - * 1. Pulls: 3/4 inch (19 mm) diameter, back to back solid round pulls (10 inches (254 mm) center to center) with 1.5 x 12 inches (38 x 305 mm) escutcheon plate. Single sidedpulls at secondary operable panels of XX and OXXO units
        2. Pulls: 1 inch (25 mm) Back to back square Dual Modern Handle, SS304; 10 inches (254 mm) center to center. Single sided set for interior use with external flush handle. Satin Nickel finish only.
        3. Rollers: Tandem stainless-steel rollers with precision bearings in a stainless steel housing, 2 per operable panel. Face adjusted rollers requiring exposed caps to conceal access holes for adjusting screws are not acceptable.
        4. Door Stop: Heavy duty metallic head mounted round door stop with a single concealed No. 12 screw, and with a rubber bumper sleeve to stop door panel Extruded rubber stops or angle lip stops are not accepted.

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

* + - * 1. Hardware Finish: Satin Nickel PVD.
        2. Hardware Finish: Dark Bronze, simulation oil rubbed bronze.
        3. Hardware Finish: White.
      1. Included Options:

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

* + - * 1. Small missile impact resistant.
        2. Extruded frame screen.
        3. Heavy duty screen with extruded 1-3/4 inch (44 mm) vertical members.
        4. Extruded Double Applied Profile:

Raised Profile: Inside and outside.

Raised Profile: Outside. Flat Profile: Inside.

Muntins: 1 inch (25 mm); for insulated laminated glass.

* + - * 1. Muntin grids inside insulated glass.
        2. Extruded double applied raised profile 1 inch (25 mm) muntins.

\*\* NOTE TO SPECIFIER \*\* 3-1/2 inch muntins not available with insulated glass. Delete if not required.

* + - * 1. Extruded double applied raised profile 3-1/2 inch (89 mm) muntins.
        2. Concealed aluminum reinforcing, steel reinforcement not acceptable.
        3. Keyed cylinder on exterior face.
    1. Basis of Design: Sentinel Collection, 150 Series Sliding Glass Doors; as manufactured by CGI Windows and Doors.
       1. Performance Requirements:

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

* + - * 1. Maximum Water Resistance, Without Waterbar Adapter: 9 psf (0.43 kPa).
        2. Maximum Water Resistance, With Waterbar Adapter: 12 psf (0.57 kPa).
        3. Forced Entry Test per AAMA 1302.5: Passed.
      1. Door Design:

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

* + - * 1. Door Configuration: As indicated on Drawings.

Size: As indicated on Drawings.

Size: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 2 Panel.

Track: 4-3/4 inches (121 mm) deep.

Panel Configuration: OX.

Panel Configuration: XO.

Panel Configuration: XX.

Panel Configuration: XX-R.

Width: 48 inches (1219 mm).

Width: 60 inches (1524 mm).

Width: 72 inches (1829 mm).

Width: 96 inches (2438 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 3 Panel.

Track: 4-3/4 inches (121 mm) deep.

Panel Configuration: OXO.

Panel Configuration: OXO-R.

Width: 108 inches (2743 mm).

Width: 144 inches (3658 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 4 Panel.

Track: 4-3/4 inches (121 mm) deep.

Panel Configuration: OXXO.

Panel Configuration: XXXX.

Width: 120 inches (3048 mm).

Width: 144 inches (3658 mm).

Width: 192 inches (4677 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 3-Track, 3 Panel.

Track: 6 inches (152 mm) deep.

Panel Configuration: XXX.

Panel Configuration: XXX-R.

Panel Configuration: XXO.

Panel Configuration: OXX.

Width: 90 inches (2286 mm).

Width: 108 inches (2743 mm).

Width: 144 inches (3658 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 3-Track, 6 Panel.

Track: 6 inches (152 mm) deep.

Panel Configuration: XXXXXX.

Panel Configuration: OXXXXO.

Width: 180 inches (4572 mm).

Width: 216 inches (5486 mm).

Width: 288 inches (7315 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 4-Track, 4 Panel.

Track: 7-3/4 inches (197 mm) deep.

Panel Configuration: XXXO.

Panel Configuration: OXXX.

Panel Configuration: XXXX.

Panel Configuration: XXXX-R.

Width: 120 inches (3048 mm).

Width: 144 inches (3658 mm).

Width: 192 inches (4677 mm).

Width: 216 inches (5486 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 4-Track, 8 Panel.

Track: 7-3/4 inches (197 mm) deep.

Panel Configuration: XXXXXXXX.

Panel Configuration: OXXXXXXO.

Width: 240 inches (6096 mm).

Width: 288 inches (7315 mm).

Width: 384 inches (9754 mm).

Width: 432 inches (10,973 mm).

Width: \_\_\_\_\_.

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

* + - * 1. Unit Height: 80 inches (2032 mm).
        2. Unit Height: 96 inches (2438 mm).
        3. Unit Height: 120 inches (3048 mm).
        4. Unit Height: \_\_\_\_\_.
      1. Door Features:
         1. Fasteners: Stainless steel.
         2. Lock: 2-point lock.
         3. Mitered, decorative interior corners.
         4. Heavy duty extruded screen frame with Super-View fiberglass mesh.
         5. Concealed installation screws.
         6. Concealed aluminum reinforcement; steel reinforcement not acceptable.
         7. Extruded, snap-in design Glazing Beads with Contemporary square profiles, for interior wet glazing, with at least 0.75 inch (19 mm) glass bite for impact-resistant glazing.
      2. Glazing:

\*\* NOTE TO SPECIFIER \*\* Delete type and glazing options not required.

* + - * 1. Type: 7/16 inch (11 mm) laminated.

Large Missile Rating: Positive 60 psf (2.87 kPa), negative 60 psf (2.87 kPa).

Color: Clear with High performance LoE 366; coating on No. 2 surface.

Color: Gray

Color: Clear

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 7/16 inch (11 mm) heat strengthened, laminated.

Large Missile Rating: Positive 80 psf (3.83 kPa), negative 80 psf (3.83 kPa).

Color: Clear with High performance LoE 366; coating on No. 2 surface.

Color: Gray

Color: Clear

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 1 inch (25 mm) insulated, annealed, laminated.

Large Missile Rating: Positive 60 psf (2.87 kPa), negative 60 psf (2.87 kPa).

Color: Clear with High performance LoE 366; coating on No. 2 surface.

Color: Clear with High performance LoE 270; coating on No. 2 surface.

Color: Gray.

Color: Clear.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 1 inch (25 mm) insulated, heat strengthened, laminated.

Large Missile Rating: Positive 80 psf (3.83 kPa), negative 80 psf (3.83 kPa).

Color: Clear with LoE 366; coating on No. 2 surface.

Color: Clear with high performance LoE 270; coating on No. 2 surface.

Color: Gray.

Color: Clear.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

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

* + - 1. Finish: Powder Coating per AAMA 2603: White.
      2. Finish: Powder Coating per AAMA 2603: Bronze.
      3. Finish: Clear Anodized, NAMM AA-C2241, 215R1, Class 1. Minimum 0.7 mils, in natural aluminum color.
      4. Construction: Extruded aluminum sections for wet glazing, precision cut and assembled with sealant filled hairline joints. Provide grooves in extrusions to receive weather stripping where doors abut frames.
         1. Member Wall Thickness: 0.070 0.156 inch (1.78 to 3.96 mm) for framing, rails, astragals and interlock members. At least 0.75 inch (19 mm) glass bite.
         2. Member Size: 1.34 inch (34 mm) panels, 1.831 inch (46.5 mm) deep interlocks
         3. Door Frame: Assembled using a 2, No. 10 stainless steel screws per corner.
         4. Door Sill/Track: Single piece construction, designed to drain through weeps on tracks, with Class 1 clear anodized finish.
      5. Hardware:
         1. Lock: Interior lock and handle.
         2. Rollers: Tandem stainless-steel rollers with precision bearings in a stainless-steel housing; 2 rollers per operable door panel. Face adjusted rollers requiring exposed caps to conceal access hole for adjusting screws are not acceptable.

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

* + - * 1. Door Handle Finish: White.
        2. Door Handle Finish: Bronze.
        3. Door Handle Finish: Gray.
      1. Included Options:

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

* + - * 1. Exterior keyed security lock.
        2. Dual track extruded screen frame with Super-View fiberglass mesh.
        3. Low Profile Muntins: Extruded double applied 1 inch (25.4 mm).
        4. Low Profile Muntins: Extruded double applied Semi-contoured; exterior only.
        5. Grill Between Glass (GBG) muntins at insulated glass.
        6. Pocketed configurations.
    1. Basis of Design: Sentinel Collection, 160 Series French Doors and Sidelites; as manufactured by CGI Windows and Doors.
       1. Performance Requirements:
          1. Maximum Water Resistance: 12 psf (0.57 kPa).
          2. Large Missile Rating: Positive 80 psf (3.83 kPa), negative 80 psf (3.83 kPa).
          3. Forced Entry Test per AAMA 1302.5: Passed.
       2. Door Design:
          1. Swing Direction: Out-swing configuration.

\*\* NOTE TO SPECIFIER \*\* Custom sizes are available. Delete door configuration and size options not required.

* + - * 1. Door Configuration: As indicated on Drawings.

Size: As indicated on Drawings.

Size: \_\_\_\_\_.

* + - * 1. Door Configuration: Single swing door.

Width: 31-1/4 inches (794 mm).

Width: 33-1/4 inches (845 mm).

Width: 37-1/4 inches (946 mm).

Width: 42 inches (1067 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: Pair swing doors.

Width: 48 inches (1219 mm).

Width: 60 inches (1524 mm).

Width: 64 inches (1626 mm).

Width: 72 inches (1829 mm).

Width: 81-1/2 inches (2070 mm).

Width: \_\_\_\_\_.

* + - * 1. Sidelite:

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

Type: Self-mating.

Type: Free-standing.

Width: 12 inches (305 mm).

Width: 18 inches (457 mm).

Width: 24 inches (610 mm).

Width: 30 inches (762 mm).

Width: 33 inches (838 mm).

Width: 36 inches (914 mm).

Width: 37-1/8 inches (943 mm).

Width: 42 inches (1067 mm).

Width: \_\_\_\_\_.

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

* + - * 1. Unit Height: 80 inches (2032 mm).
        2. Unit Height: 96 inches (2438 mm).
        3. Unit Height: \_\_\_\_\_.
      1. Door Features:
         1. Frame: 4 inches (102 mm) deep.

\*\* NOTE TO SPECIFIER \*\* Delete sill cover option not required.

* + - * 1. Sill Cover: Square.
        2. Sill Cover: Slanted.
        3. Glazing Beads: Extruded snap-on.
        4. Fastener covers at head and sill frames.
        5. Triple weatherstripping.
      1. Glazing:

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

* + - * 1. Type: 7/16 inch (11 mm) laminated.

Color: Gray

Color: Clear

Color: Clear with High performance LoE 366; coating on No. 2 surface.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 1 inch (25 mm) insulated laminated.

Color: Clear with High performance LoE 366; coating on No. 2 surface.

Color: Clear with High performance LoE 270; coating on No. 2 surface.

Color: Gray.

Color: Clear.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

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

* + - 1. Finish: Powder Coating per AAMA 2603: White.
      2. Finish: Powder Coating per AAMA 2603: Bronze.
      3. Finish: Clear Anodized, NAMM AA-C2241, 215R1, Class 1. Minimum 0.7 mils, in natural aluminum color.
      4. Hardware:
         1. Hinges: Aluminum 4-1/2 x 4 inch (114 x 102 mm).
         2. Lock: CGI patented concealed three-point lock mechanism at active panel.
         3. Lever: Lever latch lock at active panel.
         4. Dummy Lever: At inactive panel.
         5. Deadbolt: Thumb-turn inside, and key outside at active panel.
         6. Concealed flush-bolt assembly at inactive panel.
      5. Included Options:

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

* + - * 1. Lever Finish: Brushed Satin.
        2. Lever Finish: Tuscan Bronze.
        3. Lever Finish: Polished Brass.
        4. ADA saddle threshold.
        5. Hardware package upgrade.
        6. Low Profile Muntins: Extruded Double Applied 1 inch (25.4 mm).
        7. Low Profile Muntins: Extruded Double Applied Semi-Contoured.
        8. Grill Between Glass (GBG) muntins at insulated glass.
    1. Basis of Design: Sentinel Collection, 165 Series Balcony Breeze Doors; as manufactured by CGI Windows and Doors.
       1. Performance Requirements:
          1. Maximum Water Resistance: 13.5 psf (0.65 kPa).
          2. Large Missile Rating: Positive 90 psf (4.31 kPa), negative 110 psf (5.27 kPa).
          3. Forced Entry Test per AAMA 1302.5: Passed.
       2. Door Design:

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

* + - * 1. Swing Direction: As indicated on Drawings.
        2. Swing Direction: Out-swing configuration.
        3. Swing Direction: In-swing configuration.

\*\* NOTE TO SPECIFIER \*\* Custom sizes are available. Delete size options not required.

* + - * 1. Width: 32-9/16 inches (827 mm).
        2. Width: 34-9/16 inches (878 mm).
        3. Width: 38-9/16 inches (979 mm).
        4. Width: \_\_\_\_\_.
        5. Width: As indicated on Drawings.
        6. Height: 80-3/4 inches (2051 mm).
        7. Height: 96-3/4 inches (2457 mm).
        8. Height: As indicated on Drawings.
        9. Height: \_\_\_\_\_.
      1. Door Features:

\*\* NOTE TO SPECIFIER \*\* Delete window location not required.

* + - * 1. Window Location: Single hung window included at top of door.
        2. Window Location: Single hung window included at bottom of door.
        3. Door Frame: 4-1/2 inches (114 mm) deep.
        4. Window Frame: 2-1/2 inches (63.5 mm) deep.
        5. Glazing Beads: Extruded snap-on.
        6. Fastener covers.
        7. Triple weatherstripping.
      1. Glazing:

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

* + - * 1. Window Type: 5/16 inch (7.9 mm) laminated.
        2. Window Type: 3/4 inch (19 mm) insulated laminated.
        3. Door Type: 7/16 inch (11 mm) laminated.
        4. Door Type: 1 inch (25 mm) insulated laminated.
        5. Door Type: Aluminum panel.
        6. Color: Gray
        7. Color: Clear
        8. Color: Clear with High performance LoE 366; coating on No. 2 surface.
        9. Color: Dark Gray, Turtle Code.
        10. Color: Bronze.
        11. Color: Solexia Green.
        12. Color: White Interlayer; Obscure.
        13. Color: Mist, Pattern 62.
        14. Color: Rain.

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

* + - 1. Finish: Powder Coating per AAMA 2603: White.
      2. Finish: Powder Coating per AAMA 2603: Bronze.
      3. Finish: Clear Anodized, NAMM AA-C2241, 215R1, Class 1. Minimum 0.7 mils, in natural aluminum color.
      4. Hardware:
         1. Hinges: Aluminum. 4-1/2 x 4 inch (114 x 102 mm).
         2. Lock: CGI patented concealed three-point lock mechanism.
         3. Lever: Lever latch lock.
         4. Deadbolt: Thumb-turn inside and key operated outside.
      5. Included Options:

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

* + - * 1. Lever: Brushed Satin.
        2. Lever: Tuscan Bronze.
        3. Lever: Polished Brass.
        4. ADA compliant saddle threshold. Not rated for water.
        5. Grille between glass (GBG) muntins at insulated glass.
        6. Low Profile Muntins: Extruded Double Applied 1 inch (25.4 mm).
        7. Low Profile Muntins: Extruded Double Applied Semi-contoured.
        8. Extruded frame aluminum screen at Single Hung inserts.
    1. Basis of Design: Targa Collection, 7650 Series Sliding Glass Doors; as manufactured by CGI Windows and Doors.
       1. Performance Requirements:

\*\* NOTE TO SPECIFIER \*\* Delete water resistance, sill riser options not required.

* + - * 1. Water Resistance: 3-1/2 inch (89 mm) Waterbar Adaptor: 9 psf (0.43 kPa) maximum.
        2. Water Resistance: 4-1/16 inch (103 mm) Waterbar Adaptor: 12 psf (0.57 kPa) maximum.
        3. Water Resistance: 4-5/8 inch (117 mm) Waterbar Adaptor: 15 psf (0.72 kPa) maximum.
        4. Forced Entry Test per AAMA 1302.5: Passed.
      1. Door Design:

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

* + - * 1. Door Configuration: As indicated on Drawings.

Size: As indicated on Drawings.

Size: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 2 Panel.

Panel Configuration: OX.

Panel Configuration: XO.

Panel Configuration: XX.

Panel Configuration: XX-R.

Width: 48 inches (1219 mm).

Width: 60 inches (1524 mm).

Width: 72 inches (1829 mm).

Width: 96 inches (2438 mm).

Width: 120 inches (3048 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 3 Panel.

Panel Configuration: OXO.

Panel Configuration: OXO-R.

Width: 108 inches (2743 mm).

Width: 144 inches (3658 mm).

Width: 180 inches (4572 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 2-Track, 4 Panel.

Panel Configuration: OXXO.

Panel Configuration: XXXX.

Width: 120 inches (3048 mm).

Width: 144 inches (3658 mm).

Width: 192 inches (4677 mm).

Width: 240 inches (6096 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 3-Track, 3 Panel.

Panel Configuration: XXX.

Panel Configuration: XXX-R.

Panel Configuration: XXO.

Panel Configuration: OXX.

Width: 90 inches (2286 mm).

Width: 108 inches (2743 mm).

Width: 144 inches (3658 mm).

Width: 180 inches (4572 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 3-Track, 6 Panel.

Panel Configuration: XXXXXX.

Panel Configuration: OXXXXO.

Width: 180 inches (4572 mm).

Width: 216 inches (5486 mm).

Width: 288 inches (7315 mm).

Width: 360 inches (914 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 4-Track, 4 Panel.

Panel Configuration: XXXX.

Panel Configuration: XXXX-R.

Panel Configuration: XXXO.

Panel Configuration: OXXX.

Width: 120 inches (3048 mm).

Width: 144 inches (3658 mm).

Width: 192 inches (4677 mm).

Width: 240 inches (6096 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: 4-Track, 8 Panel.

Panel Configuration: XXXXXX.

Panel Configuration: OXXXXO.

Width: 240 inches (6096 mm).

Width: 288 inches (7315 mm).

Width: 384 inches (9754 mm).

Width: 480 inches (12,192 mm).

Width: \_\_\_\_\_.

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

* + - * 1. Unit Height: 80 inches (2032 mm).
        2. Unit Height: 84 inches (2134 mm).
        3. Unit Height: 96 inches (2438 mm).
        4. Unit Height: 108 inches (2743 mm).
        5. Unit Height: 120 inches (3048 mm).
        6. Unit Height: \_\_\_\_\_.
      1. Door Features:
         1. Equal leg box frame.
         2. Sill risers and track inserts, clear anodized.
      2. Glazing:

\*\* NOTE TO SPECIFIER \*\* Delete type and glazing options not required.

* + - * 1. Type: 1-1/16 inch (27 mm) insulated, annealed, laminated.

Large Missile Rating, 4 x 8 foot (1219 x 2438 mm) Door Panel: Positive 60 psf (2.87 kPa), negative 60 psf (2.87 kPa).

Color: Clear with high performance LoE 366; coating on No. 2 surface.

Color: Clear with high performance LoE 270; coating on No. 2 surface.

Color: Dark Gray, Turtle Code.

Color: Gray.

Color: Clear.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer; per Obscure.

Color: Mist, Pattern 62.

Color: Rain.

* + - * 1. Type: 1-1/16 inch (27 mm) insulated, heat strengthened, laminated.

Large Missile Rating, 4 x 10 foot (1219 x 3048 mm) Door Panel: Positive 60 psf (2.87 kPa), negative 65 psf (3.11 kPa).

Large Missile Rating, 5 x 8 foot (1524 x 2438 mm) Door Panel: Positive 80 psf (3.83 kPa), negative 80 psf (3.83 kPa).

Color: Clear with high performance LoE 366; coating on No. 2 surface.

Color: Clear with high performance LoE 270; coating on No. 2 surface.

Color: Dark Gray, Turtle Code.

Color: Gray.

Color: Clear.

Color: Bronze.

Color: Solexia Green.

Color: White Interlayer (Obscure).

Color: Mist, Pattern 62.

Color: Rain.

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

* + - 1. Finish: White vinyl.
      2. Finish: Two-tone bronze paint exterior, white vinyl interior.
      3. Construction: Sections and fabricated assemblies to be straight, true and smooth. Vinyl frames and sashes to be multi-chambered.
      4. Hardware:
         1. Interior lock and handle.
         2. Tandem steel roller assembly.
         3. Dual-point mortise lock.

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

* + - * 1. Finish: Color to match frame.
        2. Finish: Oil-rubbed bronze.
      1. Included Options:

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

* + - * 1. Sill Riser: \_\_\_\_.
        2. Standard screen.
        3. Box screen.
        4. Tandem stainless steel roller assembly.
        5. Tandem nylon roller assembly.
        6. Key lock.
        7. Recessed lock.
        8. Secondary lock.
        9. Internal grills between glass.
    1. Basis of Design: Targa Collection, 7700 Series French Doors, Sidelites and Transoms; as manufactured by CGI Windows and Doors.
       1. Performance Requirements:
          1. Maximum Water Resistance: 10.5 psf (0.5 kPa).
          2. Large Missile Rating: Positive 70 psf (3.35 kPa), negative 70 psf (3.35 kPa).
          3. Forced Entry Test per AAMA 1302.5: Passed.
       2. Door Design:
          1. Swing Direction: Out-swing configuration.

\*\* NOTE TO SPECIFIER \*\* Custom sizes are available. Delete configuration and size options not required.

* + - * 1. Door Configuration: As indicated on Drawings.

Size: As indicated on Drawings.

Size: \_\_\_\_\_.

* + - * 1. Door Configuration: Single swing door.

Width: 25-3/4 inches (654 mm).

Width: 31-3/4 inches (806 mm).

Width: 33-3/4 inches (857 mm).

Width: 37-3/4 inches (959 mm).

Width: 39 inches (991 mm).

Width: \_\_\_\_\_.

* + - * 1. Door Configuration: Pair swing doors.

Width: 48 inches (1219 mm).

Width: 60 inches (1524 mm).

Width: 64 inches (1626 mm).

Width: 72 inches (1829 mm).

Width: 76 inches (1930 mm).

Width: \_\_\_\_\_.

* + - * 1. Free-Standing Sidelite and Transom:

Width: \_\_\_\_\_.

Height: \_\_\_\_\_.

* + - * 1. Unit Height: 80 inches (2032 mm).
        2. Unit Height: 96 inches (2438 mm).
        3. Unit Height: \_\_\_\_\_.
      1. Door Features:
         1. Hinges: Stainless steel.
         2. Threshold and Cover: 1-3/8 inch (35 mm) clear anodized.
         3. Equal leg and box frame.
         4. Installation screw covers.
         5. Anchor plates.
         6. Drip cap.
      2. Glazing:
         1. Type: 1-3/16 inch (30 mm) insulated laminated.

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

Color: Clear with high performance LoE 366; coating on No. 2 surface.

Color: Clear with high Performance LoE 270; coating on No. 2 surface.

Color: Dark Gray, Turtle Code.

Color: Bronze.

Color: Gray.

Color: Clear.

Color: Solexia Green.

Color: White Interlayer; Obscure.

Color: Mist, Pattern 62.

Color: Rain.

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

* + - 1. Finish: White vinyl.
      2. Finish: Two-tone bronze paint exterior, white vinyl interior.
      3. Construction: Sections and fabricated assemblies to be straight, true and smooth. Vinyl frames and sashes to be multi-chambered.
      4. Hardware:
         1. Handle with escutcheon plate.

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

* + - * 1. Finish: Satin Nickel.
        2. Finish: Oil-Rubbed Bronze.
      1. Included Options:

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

* + - * 1. Add-on front flange, 5/8 inch (16 mm).
        2. Internal grills between glass.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly constructed and prepared.
      2. Openings Receiving Frames: Check adequacy of pressure preservative treated wood blocking.
         1. Check size, quantity, spacing, clearances, and rigidity of fastenings and their conformance to the specified NOA/Product Approval.
         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. Perform cutting, fitting, forming, drilling, and grinding of frames, without damage to finish, as needed to fit project conditions and make watertight. Replace components with damage to exposed finishes.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions approved submittals and in proper relationship with adjacent construction.
      2. Set frames plumb, square, level, and aligned to receive doors. Anchor frames to adjacent construction in strict accordance with manufacturer's recommendations, requirements of governing NOA, and within specified tolerances.
      3. Where aluminum surfaces contact alkaline substrates such as concrete or mortar, and metals other than stainless steel or zinc, protect from direct contact by painting reactive substrate and dissimilar metals with a heavy coating of bituminous paint in the field.
      4. Hang doors and adjust hardware to achieve specified clearances and proper door operation.
   4. 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