SECTION 08 53 13

IMPACT RESISTANT VINYL WINDOWS

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

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\*\* NOTE TO SPECIFIER \*\* CGI Windows and Doors, Inc. ; impact resistant doors and windows.  
This section is based on the products of CGI Windows and Doors, Inc. , which is located at:

10100 N. W. 25th St.   
Miami, FL 33172   
Toll Free Tel: 800-442-9042   
Tel: 305-593-6590   
Fax: 305-593-6592   
Email: [ocordova@cgiwindows.com](mailto:ocordova@cgiwindows.com)  
 Web: [www.cgiwindows.com](http://www.cgiwindows.com).   
  
 [ [Click Here](http://www.arcat.com/arcatcos/cos42/arc42479.html) ] for additional information.  
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 300MPH.

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Impact resistant vinyl windows of the following types:
       1. Single hung.
       2. Horizontal rolling.
       3. Casement
       4. Project-out/awning.
       5. Fixed.
       6. Designer fixed.
  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.
  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 F 588 - Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
     2. Product Data: Manufacturer's data sheets on each product to be used, including:
        1. Preparation instructions and recommendations.
        2. Storage and handling requirements and recommendations.
        3. Installation methods.
     3. Shop Drawings: Provide elevations sections and details of construction, installation and rough opening framing requirements.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
    2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
     2. Installer Qualifications: Minimum 2 year experience installing similar products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project 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: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
       1. Finish areas designated by Architect.
       2. Do not proceed with remaining work until workmanship is approved by Architect.
       3. Refinish mock-up area as required to produce acceptable work.
  1. PRE-INSTALLATION MEETINGS
     1. Convene minimum two weeks prior to starting work of this section.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
     2. Handling: Handle materials to avoid damage.
  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. SEQUENCING
     1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: CGI Windows and Doors, Inc. , which is located at: 10100 N. W. 25th St. ; Miami, FL 33172; Toll Free Tel: 800-442-9042 ; Tel: 305-593-6590; Fax: 305-593-6592; Email: [ocordova@cgiwindows.com](mailto:ocordova@cgiwindows.com); Web: [www.cgiwindows.com](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. IMPACT-RESISTANT VINYL WINDOWS

\*\* NOTE TO SPECIFIER \*\* TARGA is an Old English word for shield. Today, energy-efficient, impact-resistant vinyl windows like the new line from CGI - aptly named Targa - act as shields to safeguard your home and family with strength, security and style. As the premier manufacturer of impact windows and doors, CGI products offer superior strength, quality and beauty. Our newest addition Targa will be no different. Targa windows will enhance the aesthetics of your home while providing you products with low maintenance, long term durability, and environmental compatibility.

* + 1. Product: Targa Impact-Resistant Vinyl Windows by CGI.
       1. Size: Refer to drawing schedule.

\*\* NOTE TO SPECIFIER \*\* Delete frame configuration not required.

* + - 1. Frame: Flange.
      2. Frame: Fin.
      3. Frame: Equal leg.

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

* + - 1. Finish: White.
      2. Finish: Two Tone.

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

* + - 1. Glass: Clear.
      2. Glass: Gray.
      3. Glass: Dark Gray.
      4. Glass: Bronze.
      5. Glass: Solexia.
      6. Glass: Azuria.
      7. Glass: Obscure.
      8. Glass: Mist.
      9. Glass: Rain.
      10. Glass: Lo-E 366.
      11. Glass: Lo-E 270.

\*\* NOTE TO SPECIFIER \*\* Targa Series 7100 Single Hung impact window designed by CGI includes a Lift Assist Constant Force Balance System, concealed balances, capture-lock sash system, and recessed tilt latches for unobstructed views. Delete if not required.

* 1. SINGLE HUNG WINDOWS
     1. Series: Targa Series 7100 by CGI.
        1. Performance:
           1. Maximum Water Resistance: 9 PSF.
           2. Small and Large Missile (54 inches (1372 mm) x 77 inches (1956 mm)): 60 PSF/ -60 PSF.
           3. Forced Entry Test (ASTM F 588): Passed.
        2. Construction:
           1. 3-1/4 inches (83 mm) frame depth.
           2. 1/2 inch (13 mm) flange frame.
           3. Aluminum reinforced jamb.
           4. Sloped sill.
           5. Capture-lock sash system.
           6. Lift Assist Constant Force Balance System.
           7. Snap-on glazing beads.
           8. Structural glazing.
           9. No installation fasteners required in head or sill.
           10. Aluminum reinforced sash.
           11. Extruded screen frame with Super-View fiberglass mesh.

\*\* NOTE TO SPECIFIER \*\* Delete glass construction not required.

* + - 1. Energy Requirement: U Factor /SHGC / VT:
         1. 7/16 inch (11 mm) Clear LoE 366 Laminated: 0.81 / 0.27 / 0.46.
         2. 7/16 inch (11 mm) Gray Laminated: 0.81 / 0.44 / 0.38.
         3. 7/16 inch (11 mm) Clear Laminated: 0.81 / 0.56 / 0.67.
         4. 1 inch (25 mm) Insulated Laminated Clear LoE 366: 0.28 / 0.21 / 0.48.
         5. 1 inch (25 mm) Insulated Laminated Clear LoE 270: 0.29 / 0.28 / 0.52.
      2. Hardware:
         1. Recessed tilt latches.
         2. Sweep locks.
      3. Optional: Available In Oriel/ Proview Configurations.

\*\* NOTE TO SPECIFIER \*\* The Targa Series 7200 Horizontal Rolling Window designed by CGI features a super smooth rolling action available in sizes up to 111 inches x 63 inches in a 3 panel configuration. Delete if not required.

* 1. HORIZONTAL ROLLING WINDOWS
     1. Series: Targa Series 7200 by CGI.
        1. Performance:
           1. Maximum Water Resistance: 9 PSF.
           2. Small and Large Missile (2 panel 74-3/4 inches (1899 mm) x 63 inches (1600 mm)): 60 PSF/ -60 PSF.
           3. Small and Large Missile (3 panel 111 inches (2819 mm) x 63 inches (1600 mm)): 60 PSF/ -60 PSF.
           4. Forced Entry Test (ASTM F 588): Passed.

\*\* NOTE TO SPECIFIER \*\* Delete panel configuration not required.

* + - 1. Panel Configuration: Two panel OX.
      2. Panel Configuration: Two panel XO.
      3. Panel Configuration: Three panel XOX.

\*\* NOTE TO SPECIFIER \*\* Delete lite configuration not required.

* + - 1. Lite Configuration: Equal.
      2. Lite Configuration: 1/4 - 1/2 - 1/4.
      3. Construction:
         1. 3 1/4 inches (83 mm) frame depth.
         2. 1/2 inch (13 mm) flange frame.
         3. Capture-lock sash system.
         4. Snap-on glazing beads.
         5. Structural glazing.
         6. Aluminum reinforced sash.
         7. Extruded screen frame with Super-View fiberglass mesh.
         8. Concealed installation fasteners.

\*\* NOTE TO SPECIFIER \*\* Delete glass construction not required.

* + - 1. Energy Requirement: U Factor /SHGC / VT:
         1. 7/16 inch Clear LoE 366 Laminated: 0.81 / 0.27 / 0.45.
         2. 7/16 inch Gray Laminated: 0.81 / 0.43 / 0.37.
         3. 7/16 inch Clear Laminated: 0.81 / 0.55 / 0.65.
         4. 1 inch (25 mm) Insulated Laminated Clear LoE 366: 0.28 / 0.21 / 0.47.
         5. 1 inch (25 mm) Insulated Laminated Clear LoE 270: 0.28 / 0.27 / 0.51.
      2. Hardware: Sweep locks.

\*\* NOTE TO SPECIFIER \*\* The Targa Series 7300 Casement Window designed by CGI features a single action multipoint lock, nesting handle, and stainless steel package including operators and hinges. Our contoured trim adds a touch of elegance to any room. Delete if not required.

* 1. CASEMENT WINDOWS
     1. Series: Targa Series 7300 by CGI.
        1. Performance:
           1. Maximum Water Resistance: 9 PSF.
           2. Small and Large Missile (37 inches (940 mm) x 76 inches (1930 mm)): 60 PSF/ -60 PSF.
           3. Forced Entry Test (ASTM F 588): Passed.
        2. Construction:
           1. 3 1/4 inches (83 mm) frame depth.
           2. 1/2 inch (13 mm) flange frame.
           3. Triple weatherstripping.
           4. Snap-on glazing beads.
           5. Strong structural glazing.
           6. Aluminum reinforced frame and sash.
           7. Extruded screen frame with Super-View fiberglass mesh.

\*\* NOTE TO SPECIFIER \*\* Delete glass construction not required.

* + - 1. Energy Requirement: U Factor /SHGC / VT:
         1. 7/16 inch (11 mm) Clear LoE 366 Laminated: 0.74 / 0.25 / 0.41.
         2. 7/16 inch (11 mm) Gray Laminated: 0.74 / 0.39 / 0.34.
         3. 7/16 inch (11 mm) Clear Laminated: 0.74 / 0.51 / 0.60.
         4. 1 inch (25 mm) Insulated Laminated Clear LoE 366: 0.29 / 0.19 / 0.43.
         5. 1 inch (25 mm) Insulated Laminated Clear LoE 270: 0.29 / 0.25 / 0.46.
      2. Hardware:
         1. Stainless steel arm operator with nesting crank handle.
         2. Stainless steel operator track.
         3. Hinges with washability features.
         4. Pair of stainless steel concealed hinges.
         5. Multipoint lock system with single locking handle.
         6. Stainless steel keepers.
         7. Aluminum super-snubber blocks.
         8. Small operator on units less than 24 inches (610 mm), large operator on units 24 inches (610 mm) or more.

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

* + - * 1. Limit opening device.

\*\* NOTE TO SPECIFIER \*\* The Targa Series 7400 Project Out Window designed by CGI features a single action multi point lock, nesting handle, and stainless steel package including operators and hinges. Our contoured trim adds a touch of elegance to any room. Delete if not required.

* 1. PROJECT-OUT/AWNING WINDOWS
     1. Series: Targa Series 7400 by CGI.
        1. Performance:
           1. Maximum Water Resistance: 9 PSF.
           2. Small and Large Missile (53-1/8 inches (1349 mm) x 39 inches (991 mm)): 60 PSF/ -60 PSF.
           3. Forced Entry Test (ASTM F 588): Passed.
        2. Construction:
           1. 3-1/4 inches (83 mm) frame depth.
           2. 1/2 inch (13 mm) flange frame.
           3. Triple weatherstripping.
           4. Snap-on glazing beads.
           5. Strong structural glazing.
           6. Aluminum reinforced frame and sash.
           7. Extruded screen frame with Super-View fiberglass mesh.

\*\* NOTE TO SPECIFIER \*\* Delete glass construction not required.

* + - 1. Energy Requirement: U Factor /SHGC / VT:
         1. 7/16 inch (11 mm) Clear LoE 366 Laminated: 0.78 / 0.25 / 0.41.
         2. 7/16 inch (11 mm) Gray Laminated: 0.77 / 0.39 / 0.34.
         3. 7/16 inch (11 mm) Clear Laminated: 0.77 / 0.51 / 0.60.
         4. 1 inch (25 mm) Insulated Laminated Clear LoE 366: 0.29 / 0.19 / 0.43.
         5. 1 inch (25 mm) Insulated Laminated Clear LoE 270: 0.30 / 0.25 / 0.46.
      2. Hardware:
         1. Stainless steel arm operator with nesting crank handle.
         2. Stainless steel operator track.
         3. Hinges with washability features.
         4. Pair of stainless steel concealed hinges.
         5. Multipoint lock system with single locking handle.
         6. Stainless steel keepers.
         7. Aluminum super-snubber blocks.
         8. Small operator on units less than 22 inches (559 mm), large operator on units 22 inches (559 mm) or more.

\*\* NOTE TO SPECIFIER \*\* The Targa Series 7500 Fixed Window designed by CGI features concealed installation fasteners, matching sightlines to our casement window, and is available in sizes up to 21 square feet. The concealed installation screws finish off this product nicely making this a very clean looking window for any room in your home.

* 1. FIXED WINDOWS
     1. Series: Targa Series 7500 by CGI.
        1. Performance:
           1. Maximum Water Resistance: 12 PSF.
           2. Small and Large Missile (48 inches (1219 mm) x 63 inches (1600 mm)): 50 PSF/ -50 PSF.
           3. Small and Large Missile (48 inches (1219 mm) x 63 inches (1600 mm) SGP Only): 80 PSF/ -80 PSF.
           4. Forced Entry Test (ASTM F 588): Passed.
        2. Construction:
           1. Snap-on glazing beads.
           2. 3-1/4 inches (83 mm) frame depth.
           3. 1/2 inch (13 mm) flange frame.
           4. Strong structural glazing.
           5. Concealed installation fasteners.

\*\* NOTE TO SPECIFIER \*\* Delete glass construction not required.

* + - 1. Energy Requirement: U Factor /SHGC / VT:
         1. 7/16 inch (11 mm) Clear LoE 366 Laminated: 0.83 / 0.30 / 0.50.
         2. 7/16 inch (11 mm) Gray Laminated: 0.82 / 0.47 / 0.41.
         3. 7/16 inch (11 mm) Clear Laminated: 0.82 / 0.61 / 0.73.
         4. 1 inch (25 mm) Insulated Laminated Clear LoE 366: 0.27 / 0.23 / 0.52.
         5. 1 inch (25 mm) Insulated Laminated Clear LoE 270: 0.27 / 0.30 / 0.56.

\*\* NOTE TO SPECIFIER \*\* The Targa Series 7500 Designer Fixed Window designed by CGI features concealed installation fasteners, matching sightlines to our casement window, and is available in sizes up to 21 square feet. The concealed installation screws finish off this product nicely making this a very clean looking window for any room in your home. Delete if not required.

* 1. DESIGNER FIXED WINDOWS
     1. Series: Targa Designer Series 7500 by CGI.
        1. Performance:
           1. Maximum Water Resistance: 12 PSF.
           2. Small and Large Missile (48 inches (1219 mm) x 63 inches (1600 mm)): 50 PSF/ -50 PSF.
           3. Small and Large Missile (48 inches (1219 mm) x 63 inches (1600 mm) SGP Only): 80 PSF/ -80 PSF.
           4. Forced Entry Test (ASTM F 588): Passed.

\*\* NOTE TO SPECIFIER \*\* Delete stylenot required.

* + - 1. Style: Half Circle.
      2. Style: Arch Top/ eyebrow.
      3. Style: Full Circle.
      4. Style: Octagon.
      5. Style: Hexagon.
      6. Style: Chord.
      7. Style: Tombstone.
      8. Style: Trapezoid.
      9. Style: Pentagon.
      10. Style: Gothic Pentagon.
      11. Construction:
          1. Snap-on glazing beads.
          2. 3-1/4 inches (83 mm) frame depth.
          3. 1/2 inch (13 mm) flange frame.
          4. Strong structural glazing.
          5. Concealed installation fasteners.

\*\* NOTE TO SPECIFIER \*\* Delete glass construction not required.

* + - 1. Energy Requirement: U Factor /SHGC / VT:
         1. 7/16 inch (11 mm) Clear LoE 366 Laminated: 0.83 / 0.30 / 0.50.
         2. 7/16 inch (11 mm) Gray Laminated: 0.82 / 0.47 / 0.41.
         3. 7/16 inch (11 mm) Clear Laminated: 0.82 / 0.61 / 0.73.
         4. 1 inch (25 mm) Insulated Laminated Clear LoE 366: 0.27 / 0.23 / 0.52.
         5. 1 inch (25 mm) Insulated Laminated Clear LoE 270: 0.27 / 0.30 / 0.56.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect 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 and in proper relationship with adjacent construction. Test for proper operation and adjust until satisfactory results are achieved.
   4. PROTECTION
      1. Protect installed products until completion of project.
      2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION