SECTION 08 88 00

SPECIAL FUNCTION GLAZING - BLINDS BETWEEN GLASS WINDOWS

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

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\*\* NOTE TO SPECIFIER \*\* ODL, Inc.; Entry doors, enclosed blinds, and custom glass.  
This section is based on the products of ODL, Inc., which is located at:215 E. Roosevelt Ave.Zeeland, MI 49464-1239Toll Free Tel: 800-253-3900Tel: 616-772-9111Fax: 616-772-9110Email: [request info (doorglass\_info@odl.com)](https://arcat.com/rfi?action=email&company=ODL%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(08800odl)%253A%2520&coid=34568&spec=08800odl&rep=&fax=616-772-9110)  
Web: <https://www.odl.com>   
 [ [Click Here](https://arcat.com/company/odl-inc-34568) ] for additional information.  
ODL, Inc. was founded in 1945, and its corporate headquarters are in Zeeland, Michigan. ODL is proud to be a privately held, third-generation, family-owned company for nearly 80 years. We offer products designed to build value into the home, from entryway products including decorative and clear door glass to light and privacy control solutions.

1. GENERAL
   1. SECTION INCLUDES

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

* + 1. Raise/Lower/Tilt (RLT) mini-blinds, magnetically coupled, gear driven, and installed in sealed insulating glass (IG). An externally mounted magnet assembly, coupled to an internal magnet, controls the raising, lowering, and tilting of the blind slats.

\*\* NOTE TO SPECIFIER \*\* The 7/8 inch IG can be built to fit a 1 inch pocket. The 1 inch IG can be built to fit a 1-1/8 inch pocket. This is done by adding 6 mm glass on the outside glass to increase overall thickness for the sash or to meet code for thicker glass. Delete product and IG options not required.

* + - 1. Raise/Lower/Tilt Blinds-Between-Glass up to 18 sq ft for the Following:
         1. Awning Casement Windows:

Insulating Glass Units: 7/8 inches (22 mm) thick.

Insulating Glass Units: 1 inches (25 mm) thick.

Insulating Glass Units: 1-1/8 inches thick.

* + - * 1. Sliding Windows:

Insulating Glass Units: 7/8 inches (22 mm) thick.

Insulating Glass Units: 1 inches (25 mm) thick.

Insulating Glass Units: 1-1/8 inches (29 mm) thick.

* + - * 1. Bay Windows:

Insulating Glass Units: 7/8 inches (22 mm) thick.

Insulating Glass Units: 1 inches thick.

Insulating Glass Units: 1-1/8 inches (29 mm) thick.

* + - * 1. Fixed windows.

Insulating Glass Units: 7/8 inches (22 mm) thick.

Insulating Glass Units: 1 inches (25 mm) thick.

Insulating Glass Units: 1-1/8 inches (29 mm) thick.

* + - * 1. Sliding glass doors.

Insulating Glass Units: 7/8 inches (22 mm) thick.

Insulating Glass Units: 1 inches (25 mm) thick.

Insulating Glass Units: 1-1/8 inches (29 mm) thick.

* + - * 1. Sliding Patio Doors and Windows: Up to 28.125 square feet.

Residential and commercial.

\*\* NOTE TO SPECIFIER \*\* The 1 inch IG is achieved by using 4 mm / 4 mm glass and does not have the option to have 6 mm glass on the outside.

Insulating Glass Units: 1 inches (25 mm) thick.

* + - 1. Tilt blinds-between-glass for windows up to 9 sq ft.
         1. Insulating Glass Units: 7/8 inches (22 mm) thick.
         2. Insulating Glass Units: 1 inches (25 mm) thick.
  1. RELATED SECTIONS

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

* + 1. Section 08 10 00 - Doors and Frames.
    2. Section 08 16 13 - Fiberglass Doors.
    3. Section 08 30 00 - Specialty Doors and Frames.
    4. Section 08 32 00 - Sliding Glass Doors.
    5. Section 08 40 00 - Entrances, Storefronts and Curtain Walls.
    6. Section 08 50 00 - Windows.
    7. Section 08 53 13 - Vinyl Windows.
    8. Section 08 80 00 - Glazing.
    9. Section \_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_\_\_.
  1. REFERENCES

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

* + 1. American National Standards Institute (ANSI):
       1. ANSI Z97.1 Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test.
    2. ASTM International (ASTM):
       1. ASTM C1036 Standard Specification for Flat Glass.
       2. ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.
       3. ASTM E2190 Standard Specification for Insulating Glass Unit Performance and Evaluation.
    3. Consumer Products Safety Commission (CSPC):
       1. CSPC 16-CRF, Part 1201, Category II Safety Standard for Architectural Glazing Materials.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. Product Data: Manufacturer's standard specifications and descriptive literature, including:
        1. Spec-Data product information sheets.
        2. Technical information sheets.
        3. Catalog cut-sheets.
        4. Color charts.
        5. Sample warranty forms.
        6. Manufacturer's Instructions:
           1. Delivery, storage, and handling.
           2. Environmental conditions.
           3. Preparation and installation instructions.
           4. Maintenance.
     3. Shop Drawings: Graphic information prepared by purchaser for approval by manufacturer.
        1. Includes but is Not Limited to the Following:
           1. Dimensioned Plans, Elevations, and Details, Indicating: Double-pane glass design; glass size; glazing pocket.
           2. Verified opening dimensions.
     4. Samples:
        1. Sample Size: Full.
        2. Sample Size: 15 x 12 inches (381 x 305 mm) up to 46 x 90 inches (1168 x 2286 mm).
        3. Sample Size: \_\_\_ x \_\_\_ inches (\_\_\_ x \_\_\_ mm).

\*\* NOTE TO SPECIFIER \*\* ODL Blinds + Glass are available for use in doors and windows. Edit the following Paragraph when integral glass is used within a Delete the Paragraph if integral glass is used only in a glazing section. Delete the quantity options not required.

* + - 1. Door: 8-5/8 x 13 inch (219 x 330 mm) corner section sample of frame for each glazing type specified.
         1. Sample will be used to verify construction, corner joint, frame finish, and color.
         2. Quantity: 1.
         3. Quantity: 2.
         4. Quantity: 3.
         5. Quantity: \_\_\_.

\*\* NOTE TO SPECIFIER \*\* Edit the following when integral glass is used within a glazing section. Delete if integral glass is used only in a door section. Delete the quantity options not required.

* + - 1. Glazing: Sample size specified of frame for each glazing type specified.
         1. Sample will be used to verify construction, corner joint, frame finish, and color.
         2. Quantity: 1.
         3. Quantity: 2.
         4. Quantity: 3.
         5. Quantity: \_\_\_.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of twenty 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. Installation Documents: Maintain manufacturer's installation instructions, approved submittals, and related documents on-site to confirm proper installation.
     4. 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 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. The intent of a mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If the mock-up is not acceptable, rebuild the 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. Convene a conference approximately two weeks prior to installation Work of this specification.
        1. Attendees: Architect, Contractor, Installer, Manufacturer Representative, and representatives of involved trades.
        2. Agenda Items: Schedule, responsibilities, coordination, critical path items and approvals.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Material Delivery:
        1. According to manufacturer's written instructions.
        2. Materials to be in manufacturer's original, unopened, undamaged containers or packaging with identification labels intact, product name and manufacturer clearly visible.
        3. Deliver in sizes to suit project.
     2. Material Storage:
        1. Protect materials from exposure to harmful environmental conditions.
        2. Store in a clean, dry, frost-free location at manufacturer's recommended temperature and humidity levels.
     3. Handling:
        1. Exercise care during off-loading and installation to avoid damage and marring of finishes.
        2. Handle in a manner to distribute material load evenly to prevent twisting, bending, and cracking of windows, doors, and associated parts.
        3. Replace any products damaged during handling with new materials.
        4. Do not remove red stop sign or operate blinds until installed in opening; window, door, etc.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. WARRANTY
     1. Manufacturer's Warranty: From date of substantial completion, covering defects in materials.
        1. Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official.
        2. Manufacturer's warranty is in addition to and not intended to limit other rights.

\*\* NOTE TO SPECIFIER \*\* Delete warranty duration option options not required.

* + - 1. Warranty Duration: 10 years.
      2. Warranty Duration: \_\_\_ years.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: ODL, Inc., which is located at:215 E. Roosevelt Ave.Zeeland, MI 49464-1239Toll Free Tel: 800-253-3900Tel: 616-772-9111Fax: 616-772-9110Email: [request info (doorglass\_info@odl.com)](https://arcat.com/rfi?action=email&company=ODL%252C%252BInc.&message=RE%253A%2520Spec%2520Question%2520(08800odl)%253A%2520&coid=34568&spec=08800odl&rep=&fax=616-772-9110);Web: <https://www.odl.com>
      2. Second Manufacturing Facility: VDO manufacturing facility located in Matamoros, Mexico.

\*\* 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 the provisions of Section 01 60 00.
  1. BLINDS-BETWEEN GLASS WINDOWS
     1. Standards and Code Compliance:
        1. Seal: IGCC. ASTM E2190 seal certification.
        2. Glass: ANSI Z97.1. safety glazing (Applies to tempered glass only).
        3. Glass, Annealed: ASTM C1036.
        4. Glass, Tempered: ASTM C1048.
        5. Safety: ANSI / WCMA A100.1.
        6. ENERGY STAR: Will help your window achieve ENERGY STAR performance when select Low-E glass is employed.
        7. NFRC CAD: Available for simulations.
        8. Certified safe for children and pets with no exposed cords.
     2. Performance and Design Requirements:
        1. Insulated Glass with Between-the-Glass Blinds must comply with the following:
           1. ASTM E2190 testing in insulating glass units for durability classification by Insulating Glass Certification Council.
           2. Life cycle testing, demonstrating over 10,000 tilting operations.
           3. Demonstrate proper blind operation inside insulating glass unit with inside glass exposed to temperature of 68 degrees F and external glass exposed to temperature of minus 22 degrees F.
           4. Editor's Note: Delete the following blinds that are not required for the Project.
        2. Blinds + Glass, 7/8 inch (22 mm) Tilt:
           1. Lift Force: N/A.
        3. Blinds + Glass, 1 inch (25 mm) Classic:
           1. Lift Force: 15.06 lbf (67 N) or less. All sizes up to maximum square feet.
        4. Blinds + Glass, 1 inch (25 mm) Custom:
           1. Lift Force: 10.79 lbf (48 N) or less. Size: 22 x 64 inches (559 x 1626 mm).
           2. Lift Force: 12.14 lbf (54 N) or less. All other sizes up to maximum square feet.
        5. Blinds + Glass 7/8 inch (22 mm) Custom:
           1. Lift Force: 9.22 lbf (41 N) or less. Size: 22 x 64 inches (559 x 1626 mm).
           2. Lift Force: 15.06 lbf (67 N) or less. All other sizes up to maximum square feet.
        6. Blinds + Glass 7/8 inch (22 mm) RLT-Top
           1. Lift Force: 12.14 lbf (54 N) or less. All sizes up to maximum square feet.
        7. Blinds + Glass XL Custom 1 inch (25 mm):
           1. Lift Force: 16.86 lbf (75 N) or less. All sizes up to maximum square feet.
        8. Slats: 6010-T8 aluminum alloy. Thickness: 0.008 inches (0.20 mm). Profile: Crowned.
        9. Slat Width: Varies with insulating glass thickness.
        10. Slat Spacing: Manufacturer's standard.
        11. Slat Finish: Low emissivity paint with polyester UV high resistant finish.
        12. Head and Bottom Rails: 6063-T5 aluminum alloy, painted same color with slats.
        13. Ladder Cords: Thermally fixed polyester. UV resistant. Evenly spaced to prevent long-term slat sag.
        14. Operating Mechanism: Sintered neodymium, iron-boron support magnets.
        15. Insulated Glass Units: Clear insulating glass, factory assembled. Consisting of sealed lites separated by a dehydrated air space, qualified according to ASTM E2190, and complying with other requirements specified.
            1. Heat-Treated Float Glass: ASTM C1048; Type 1; Quality-Q3; Class 1 (clear) unless otherwise indicated; of kind and condition indicated.
            2. Glass Thickness: 0.118 inches (3 mm). Based on product type and options selected.
            3. Glass Thickness: 0.157 inches (4 mm). Based on product type and options selected.
            4. Glass Thickness: 0.236 inches (6 mm). Based on product type and options selected.
            5. Overall Thickness of Insulated Glass Blind System Unit: 7/8 inch (22 mm).
            6. Overall Thickness of Insulated Glass Blind System Unit: 1 inch (25 mm).
            7. Overall Thickness of Insulated Glass Blind System Unit: 1-1/8 inch (29 mm).
            8. Sealing System: Dual seal equivalent.
            9. Spacer: Tin-plated steel.
            10. Desiccant: Desiccant matrix.
     3. Fabrication:
        1. Factory fabricate insulating glass blind system with necessary space around internal magnet, so it interfaces with external magnet operator.
        2. Tolerances:
           1. Space of approximately 0.125 inch (3 mm) on each side between slats and spacer, for free movement of system and allowing thermal transmission of aluminum slats.
           2. Blind Width and Height Tolerance:

Float and Annealed Glazing: Plus 0.125 inch (3.17.

mm). Minus 0.063 inch (1.60 mm).

Custom Tempered Glazing: Plus 0.156 inch (3.96 mm). Minus 0.094 inch (2.39 mm).

* + 1. Basis of Design: ODL Blinds + Glass 7/8 inch (22 mm) RLT-Top for Windows.
       1. Application: Single and double hung windows.
       2. Streamlined EasyGlide Operator and Ergo Track located on top center.
       3. Maintenance: Clean with soap and water, or high quality window cleaner.

\*\* NOTE TO SPECIFIER \*\* Delete glass type option not required.

* + - 1. Lead Times USA: 12 business days + transit.
      2. Lead Times Canada: 14 business days + transit.
      3. Glass Type: Tempered.
      4. Glass Type: Annealed.
      5. Insulated Glass Thickness: 7/8 or 1 inch (22 or 25 mm).
         1. Spacer: Intercept, tin-plated steel.
         2. Sealant: Dual seal equivalent.
         3. Desiccant: Desiccant matrix; moisture and chemical management.
         4. Cover Caps: UV stabilized, heat tolerant polymer.
         5. Blinds Slats: 0.394 inches (10 mm) wide aluminum UV stabilized coating.

\*\* NOTE TO SPECIFIER \*\* Delete Low-E options not required. NEAT glass coating applies to tempered glass only.

* + - 1. Low-E Single: 2nd surface soft coat. N/A.
      2. Low-E Single: 2nd surface soft coat. 270.
      3. Low-E Single: 2nd surface soft coat. 272.
      4. Low-E Single: 2nd surface soft coat. 340.
      5. Low-E Single: 2nd surface soft coat. 366.
      6. Low-E Dual: 4th surface hard coat Low-E. N/A.
      7. Low-E Dual: 4th surface hard coat Low-E. I89/270.
      8. Low-E Dual: 4th surface hard coat Low-E. I89/272.
      9. Low-E Dual: 4th surface hard coat Low-E. I89/340.
      10. Low-E Dual: 4th surface hard coat Low-E. I89/366.
      11. Glass Coating Neat: 1st surface 270.
      12. Glass Coating Neat: 1st surface 366.
      13. Tint: Solar Gray.
      14. Tint: Solar Bronze.
      15. Finish: White.
      16. Finish: Tan.
      17. Finish: Espresso.
      18. Finish: Slate Gray.
      19. Finish: Sand.
      20. Finish: Silver Moon.
      21. Full Warranty: 10 years.
      22. Size Ranges: Height: 12 to 41 inches (305 to 1041 mm). Width: 15 to 54 inch (381 to 1372 mm).
          1. Size Increments 1/16 inch (1.6 mm) both height and width.
          2. Maximum Area: 9 sq ft (0.836 sq m).

No more than 36 inches (914 mm) in one direction.

* + 1. Basis of Design: ODL Blinds + Glass 7/8 inch (22 mm) Tilt for Windows.
       1. Application: Single and double hung windows and light commercial applications.
       2. Blinds remain down with single-function tilt operator for optimum light and privacy control.
       3. Tilt Operator: Located in top right-hand corner.
       4. Maintenance: Clean with soap and water, or high quality window cleaner.

\*\* NOTE TO SPECIFIER \*\* Delete glass type option not required.

* + - 1. Lead Times USA: 12 business days + transit.
      2. Lead Times Canada: 14 business days + transit.
      3. Glass Type: Tempered.
      4. Glass Type: Annealed.
      5. Insulated Glass Thickness: 7/8 and 1 inch (22 and 25 mm).
         1. Spacer: Intercept, tin-plated steel.
         2. Sealant: Dual seal equivalent.
         3. Desiccant: Desiccant matrix (moisture and chemical management).
         4. Cover Caps: UV stabilized, heat tolerant polymer.
         5. Blinds Slats: 0.45 inches (11.5 mm) wide aluminum UV stabilized coating.

\*\* NOTE TO SPECIFIER \*\* Delete Low-E options not required. NEAT glass coating applies to tempered glass only.

* + - 1. Low-E Single: 2nd surface soft coat. N/A.
      2. Low-E Single: 2nd surface soft coat. 270.
      3. Low-E Single: 2nd surface soft coat. 272.
      4. Low-E Single: 2nd surface soft coat. 340.
      5. Low-E Single: 2nd surface soft coat. 366.
      6. Low-E Dual: 4th surface hard coat Low-E. N/A.
      7. Low-E Dual: 4th surface hard coat Low-E. I89/270.
      8. Low-E Dual: 4th surface hard coat Low-E. I89/272.
      9. Low-E Dual: 4th surface hard coat Low-E. I89/340.
      10. Low-E Dual: 4th surface hard coat Low-E. I89/366.
      11. Glass Coating Neat: 1st surface. 270.
      12. Glass Coating Neat: 1st surface. 366.
      13. Glass Coating Neat: 1st surface. I89/270.
      14. Glass Coating Neat: 1st surface. I89/366.
      15. Tint: Solar Gray.
      16. Tint: Solar Bronze.
      17. Finish: White.
      18. Finish: Tan.
      19. Finish: Espresso.
      20. Finish: Slate Gray.
      21. Finish: Sand.
      22. Finish: Silver Moon.
      23. Full Warranty: 10 years.
      24. Size Ranges: Height: 12 to 68 inches (305 to 1727 mm). Width: 8 to 54 inch (203 to 1372 mm).
          1. Size Increments 1/16 inch (1.6 mm) both height and width.
          2. Maximum Area: No more than 36 inches (914 mm) in one direction.

Annealed Glass and Tempered Glass: 9 sq ft (0.836 sq m).

* + 1. Basis of Design: ODL Blinds + Glass 7/8 inch (22 mm) Blinds for Windows and Sliding Patio Doors.
       1. Application:
          1. Windows: Awning, casement, fixed, sliding, and bay windows.
          2. Doors: Sliding patio doors.
          3. Choice of left or right-hand EasyGlide Operator / Ergo Track location.
          4. Maintenance: Clean with soap and water, or high quality window cleaner.

\*\* NOTE TO SPECIFIER \*\* Delete glass type option not required.

* + - * 1. Lead Times USA: 12 business days + transit.
        2. Lead Times Canada: 14 business days + transit.
      1. Glass Type: Tempered.
         1. Operator: Dual. Up to 18 sq ft (1.672 sq m).

Height: 48 inches (1219 mm) or greater.

* + - * 1. Operator: Single. Up to 12 sq ft (1.115 sq m).

Height: 48 inches (1219 mm) or less.

* + - 1. Glass Type: Annealed.
         1. Operator: Dual. Up to 15 sq ft (1.393 sq m).

Height: 48 inches (1219 mm) or greater.

* + - * 1. Operator: Single. Up to 12 sq ft (1.115 sq m).

Height: 48 inches (1219 mm) or less.

* + - 1. Operation Location: Left.
      2. Operation Location: Right.
      3. Glass Pane Thickness: 0.125 and 0.25 inches (3 and 6 mm).
      4. Insulated Glass Thickness: 7/8 and 1 inch (22 and 25 mm).
         1. Spacer: Intercept, tin-plated steel.
         2. Sealant: Dual seal equivalent.
         3. Desiccant: Desiccant matrix; moisture and chemical management.
         4. Cover Caps: UV stabilized, heat tolerant polymer.
         5. Blinds Slats: 10 mm wide aluminum UV stabilized coating.

\*\* NOTE TO SPECIFIER \*\* Delete Low-E options not required.

* + - 1. Low-E Single: 2nd surface soft coat. N/A.
      2. Low-E Single: 2nd surface soft coat. 270.
      3. Low-E Single: 2nd surface soft coat. 272.
      4. Low-E Single: 2nd surface soft coat. 340.
      5. Low-E Single: 2nd surface soft coat. 366.
      6. Low-E Dual: 4th surface hard coat Low-E. N/A.
      7. Low-E Dual: 4th surface hard coat Low-E. I89/270.
      8. Low-E Dual: 4th surface hard coat Low-E. I89/272.
      9. Low-E Dual: 4th surface hard coat Low-E. I89/340.
      10. Low-E Dual: 4th surface hard coat Low-E. I89/366.
      11. Glass Tint: Glass panel 1, Solar Gray.
      12. Glass Tint: Glass panel 1, Solar Bronze.
      13. Finish: White.
      14. Finish: Tan.
      15. Finish: Espresso.
      16. Finish: Slate Gray.
      17. Finish: Sand.
      18. Finish: Silver Moon.
      19. Full Warranty: 10 years.
      20. Size Ranges: Height: 18 to 80 inches (457 to 2032 mm). Width: 8 to 48 inch (203 to 1219 mm).
          1. Size Increments 1/16 inch (1.6 mm) both height and width.
          2. Maximum Area: No more than 36 inches (914) in one direction.

Annealed Glass: 15 sq ft (1.393 sq m).

Tempered Glass: 18 sq ft (1.672 sq m).

* + 1. Basis of Design: ODL Blinds + Glass 1 inch Blinds for Windows and Doors. For use in awning, casement, fixed, sliding, and bay windows; and sliding patio doors. Choice of left or right hand EasyGlide Operator. Maintenance: Clean with soap and water, or high quality window cleaner.
    2. Editor's Note: Delete the glass type not being specified.
    3. Lead Times USA: 12 business days + transit.
    4. Lead Times Canada: 14 business days + transit.
       1. Glass Type: Tempered.
       2. Editor's Note: Delete whichever two of the following three paragraphs are not necessary.
          1. Operator: Dual. Maximum 17 sq ft (1.579 sq m).

Operator Location: Left side.

Operator Location: Right side.

* + - * 1. Operator: Dual. Minimum height 48 inches (1219 mm).

Operator Location: Left side.

Operator Location: Right side.

* + - * 1. Operator: Single. 48 inch (1219 mm) and above.

Operator Location: Left side. Low track options above 30 inches (762 mm).

Operator Location: Right side. Low track options above 30 inches (762 mm).

* + - 1. Glass Type: Annealed.
      2. Editor's Note: Delete whichever two of the following three paragraphs are not necessary.
         1. Operator: Dual. Maximum 17 sq ft (1.579 sq m).

Operator Location: Left side.

Operator Location: Right side.

* + - * 1. Operator: Dual. Minimum height 48 inches (1219 mm).

Operator Location: Left side.

Operator Location: Right side.

* + - * 1. Operator: Single. 48 inch (1219 mm) and above. Low track options above 30 inches (762 mm).

Operator Location: Left side.

Operator Location: Right side.

* + - 1. Glass Pane Thickness: 0.125 and 0.250 inches (3 and 6 mm).
      2. Insulated Glass:
         1. Thickness: 1 inch (25 mm).
         2. Thickness: 1-1/8 inch (29 mm).
         3. Spacer: Intercept, tin-plated steel.
         4. Sealant: Dual seal equivalent.
         5. Desiccant: Desiccant matrix (moisture & chemical management).
         6. Cover Caps: UV stabilized, heat tolerant polymer.
         7. Blinds Slats: 0.5 inches (12.5 mm) wide aluminum UV stabilized coating.
         8. Editor's Note: Delete whichever of the following two paragraphs below that is not necessary.
      3. Low-E Single: 2nd surface soft coat. N/A.
      4. Low-E Single: 2nd surface soft coat. 270.
      5. Low-E Single: 2nd surface soft coat. 272.
      6. Low-E Single: 2nd surface soft coat. 340.
      7. Low-E Single: 2nd surface soft coat. 366.
      8. Low-E Dual: 4th surface hard coat Low-E. N/A.
      9. Low-E Dual: 4th surface hard coat Low-E. I89/270.
      10. Low-E Dual: 4th surface hard coat Low-E. I89/272.
      11. Low-E Dual: 4th surface hard coat Low-E. I89/340.
      12. Low-E Dual: 4th surface hard coat Low-E. I89/366.
      13. Glass Tint: Solar Bronze.
      14. Glass Tint: Solar Gray.
      15. Finish: White.
      16. Finish: Tan.
      17. Finish: Espresso.
      18. Finish: Slate Gray.
      19. Finish: Sand.
      20. Finish: Silver Moon.
      21. Full Warranty: 10 years.
      22. Size Ranges: Height: 14 to 80 inches. Width: 8 to 80 inches (203 to 2032 mm).
          1. Size Increments 1/16 inch (1.6 mm) both height and width.
          2. No more than 36 inches (914 mm) in one direction.
          3. Maximum Area Annealed Glass: 15 sq ft (1.393 sq m).
          4. Maximum Area Tempered Glass: 17 sq ft (1.579 sq m).
    1. Basis of Design: ODL Blinds + Glass Classic 1 inch (25 mm) for use in sliding patio doors. Choice of left or right-hand Standard Classic or Low-Profile Operator location. Easy to maintain: Clean with soap and water, or high quality window cleaner.
    2. Editor's Note:
    3. Lead Times USA: 12 business days + transit.
    4. Lead Times Canada: 14 business days + transit.
       1. Glass Type: Tempered.
          1. Operator: Dual. Left side.
          2. Operator: Dual. Right side.
          3. IG Height: 42 inches (1067 mm) minimum.
          4. Operator Type: Classic: 0.667 inches (16.94 mm) thick.
          5. Operator Type: Low Profile: 0.438 inches thick (11.13 mm).
       2. Glass Pane Thickness: 0.125 inches (3 mm)
       3. Insulated Glass Thickness: 1 inch (25 mm).
          1. Spacer: Intercept, tin-plated steel.
          2. Sealant: Dual seal equivalent.
          3. Desiccant: Desiccant matrix; moisture and chemical management.
          4. Cover Caps: UV stabilized, heat tolerant polymer.
          5. Blinds Slats: 0.50 inches (12.5 mm) wide aluminum UV stabilized coating.
          6. Editor's Note: Delete whichever of the two following paragraphs below that is not necessary.
       4. Low-E Single: 2nd surface soft coat. N/A.
       5. Low-E Single: 2nd surface soft coat. 270.
       6. Low-E Single: 2nd surface soft coat. 272.
       7. Low-E Single: 2nd surface soft coat. 366.
       8. Low-E Dual: 4th surface hard coat Low-E. N/A.
       9. Low-E Dual: 4th surface hard coat Low-E. I89/270.
       10. Low-E Dual: 4th surface hard coat Low-E. I89/272.
       11. Low-E Dual: 4th surface hard coat Low-E. I89.
       12. Low-E Dual: 4th surface hard coat Low-E. I89/366.
       13. Finish: White.
       14. Full Warranty: 10 years.
       15. Size Ranges: Height: 42 to 80 inches (1067 x 2032 mm). Width: 14 to 36 inch (356 x 914 mm).
           1. Size Increments: 1/16 inch (1.6 mm) both height and width.
           2. Maximum Area: No more than 36 inches (914 mm) in one direction.

Tempered Glass: 17 sq ft (1.579 sq m).

* + 1. Basis of Design: ODL Blinds + Glass XL, 1 inch (25 mm) thick, for use in large format sliding patio doors and windows in residential and light commercial applications. Choice of left or right-hand EasyGlide Operator. Easy to maintain: Clean with soap and water, or high quality window cleaner.
    2. Editor's Note: Delete the glass type that is not required.
    3. Lead Times USA: 12 business days + transit.
    4. Lead Times Canada: 14 business days + transit.
       1. Glass Type: Tempered. XL Sizes: 28.125 sq ft.
          1. Operator: Dual. Side: Left side.
          2. Operator: Dual. Side: Right side.
       2. Glass Type: Tempered.
          1. Operator: Dual, EasyGlide. Side: Left side.
          2. Operator: Dual, EasyGlide. Side: Right side.
       3. Glass Pane Thickness: 0.157 inches (4 mm).
       4. Insulated Glass Thickness: 1 inch (25 mm).
          1. Spacer: Intercept, tin-plated steel.
          2. Sealant: Dual seal equivalent.
          3. Desiccant: Desiccant matrix (moisture and chemical management).
          4. Cover Caps: UV stabilized, heat tolerant polymer.
          5. Blinds Slats: 0.393 inches (10 mm) wide aluminum UV stabilized coating.
          6. Editor's Note: Delete whichever of the two paragraphs below that is not necessary.
       5. Low-E Single: 2nd surface soft coat. N/A.
       6. Low-E Single: 2nd surface soft coat. 270.
       7. Low-E Single: 2nd surface soft coat. 272.
       8. Low-E Single: 2nd surface soft coat. 340.
       9. Low-E Single: 2nd surface soft coat. 366.
       10. Low-E Dual: 4th surface hard coat Low-E. N/A.
       11. Low-E Dual: 4th surface hard coat Low-E. I89/270.
       12. Low-E Dual: 4th surface hard coat Low-E. I89/272.
       13. Low-E Dual: 4th surface hard coat Low-E. I89/340.
       14. Low-E Dual: 4th surface hard coat Low-E. I89/366.
       15. Finish: White.
       16. Finish: Tan.
       17. Finish: Espresso.
       18. Finish: Slate Gray.
       19. Finish: Sand.
       20. Finish: Silver Moon.
       21. Full Warranty: 10 years.
       22. Size Ranges: Height: 46 to 90 inches (1168 to 2286 mm). Width: 9 to 63 inch (229 to 1600 mm).
           1. Size Increments: 1/16 inch (1.6 mm) both height and width.
           2. Maximum Area: No more than 48 inches (1219 mm) in one direction.

Tempered Glass: 28.125 sq ft (2.613 sq m).

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until the substrates have been properly constructed and prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
      3. Examine openings with qualified installer present. Verify that openings are square and plumb. Ensure that opening provides adequate support for the system. Proceed with installation only after conditions are deemed satisfactory.
   2. PREPARATION

\*\* NOTE TO SPECIFIER \*\* Specify preparatory work required prior to installation/application/erection of primary products.

* + 1. Prepare glass pockets to receive ODL Blinds + Glass products in accordance with ODL's instructions and approved submittals.
    2. Ensure the Capillary tubes are not blocked or clogged.

\*\* NOTE TO SPECIFIER \*\* Add preparatory efforts as required.

* + 1. \_\_\_\_\_\_\_\_.
  1. INSTALLATION
     1. Install insulating glass blind system according to manufacturer's written instructions and approved submittals.
     2. Sealants: Apply according to manufacturer's written instructions.
  2. ADJUSTMENT
     1. Clean glass, and position external magnet on glass aligned with internal magnet to produce optimum tilt operation for smooth slat rotation of blinds. Remove non-permanent labels, and clean surfaces.
  3. CLEANING
     1. Clean sealants, caulking and other materials from surfaces, including adjacent work.
     2. Clean frames, casings and glass using materials and methods recommended by the manufacturer.
        1. Clean using methods which comply with AAMA 609.
        2. Clean glass using methods which comply with GANA 01-0300.
     3. Wash insulating glass blind system units on exposed surfaces in each area of project not more than four days before date scheduled for inspections that establish date of Substantial Completion.

\*\* NOTE TO SPECIFIER \*\* Specify protection methods completed after installation, but prior to acceptance by the owner. Include only statements unique to this section. Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

* 1. PROTECTION
     1. Protect blinds-between-glass component glazing from damage during construction in accordance with manufacturer's instructions and approved submittals until completion of project.
        1. Protect insulating glass blind system units from contact with contaminating substances resulting from construction operations, including weld splatter. If, despite such protection, contaminating substances do come into contact with insulating glass blind system units, remove substances immediately.
     2. Remove and replace insulating glass blind system units that are broken, chipped, cracked, or abraded or that are damaged from natural causes, accidents, or vandalism during construction period.

END OF SECTION