



ODL, Inc.



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This Manu-Spec® utilizes the Construction Specifications Institute (CSI) Project Resource Manual (PRM), including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. A Manu-Spec is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes precede specification text; delete notes in final copy of specification. Trade and brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text of Part 2 describing the material, product or system, including accessory products. Metric conversion, where used, is soft metric conversion.

This Manu-Spec specifies blinds-between-glass component glazing units with integral blinds, as manufactured by ODL, Inc. Revise Manu-Spec section number and title below to suit project requirements, specification practices and section content. Refer to *CSI MasterFormat* for other section numbers and titles.

SECTION 08 88 00 SPECIAL FUNCTION GLAZING

PART 1 GENERAL

1.1 SUMMARY

Specifier Note: ODL manufacturers blinds-between-glass component glazing units for glazed openings or products. Retain and edit the following paragraph to meet project requirements and configurations for special function glazing. Add section numbers and titles per CSI MasterFormat and specifier's practice

- A. Section Includes: Blinds-between-glass component glazing units for vertical glazed openings or products.
- B. Related Sections:

Specifier Note: Include in this paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution since referencing them may cause them to be considered part of the Contract.

1. Section [08 16 13 – Fiberglass Doors].
2. Section [08 32 00 – Sliding Glass Doors].
3. Section [08 53 13 – Vinyl Windows].
4. [].

1.2 REFERENCES

Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References paragraph when specifying products and installation by an industry reference standard. List retained standard(s) referenced in this section alphabetically. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced and update as applicable. Contract Conditions Section

01 42 00 - References may be used to establish the edition date of standards. This paragraph does not require compliance with standard(s). It is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 and/or 3. Do not include references to building codes at any level.

- A. Reference Standards:
1. American National Standards Institute (ANSI):
 - a. ANSI Z97.1 Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test.
 2. ASTM International (ASTM):
 - a. ASTM C1036 Standard Specification for Flat Glass.
 - b. ASTM C1048 Standard Specification for Heat-Strengthened and Fully Tempered Flat Glass.
 - c. ASTM E2190 Standard Specification for Insulating Glass Unit Performance and Evaluation.
 3. Consumer Products Safety Commission (CSPC):
 - a. CSPC 16-CRF, Part 1201, Category II Safety Standard for Architectural Glazing Materials.

Specifier Note: Article below includes submittal of relevant data to be exchanged between manufacturer and purchaser before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities.

1.3 SUBMITTALS

- A. 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.
- B. Shop Drawings: Graphic information prepared by purchaser for approval by manufacturer, including:
1. Dimensioned plans, elevations, and details, indicating: double-pane glass design; glass size; glazing pocket
 2. Verified opening dimensions.
- C. Samples:
1. [Full size].[Sample size: 8⁵/₈ x 13 inches]

Specifier Note: Blink Blinds + Glass are available for use in door or glazing section. Retain and edit the following Article when integral glass is used within a door section. Delete if integral glass is used only as glazing section.

2. Door section:
 - a. Submit 8⁵/₈ x 13 inch minimum corner section sample of frame for each glazing type specified.
 - b. Sample will be used to verify construction, corner joint and frame finish and color.
 - c. Quantity [5].

Specifier Note: Retain and edit the following when integral glass is used within a glazing section. Delete if integral glass is used only in a door section.

3. Glazing section:
 - a. Submit sample size or full size of frame for each glazing type specified.
 - b. Sample will be used to verify construction, corner joint, and frame finish and color.
 - c. Quantity: [5].

Specifier Note: Specify submittals intended to document storage, installation and other instructions.

- D. Manufacturer's Instructions: Standard instructions issued to purchases, including:

1. Delivery, storage and handling recommendations.
 2. Environmental conditions.
 3. Preparation and installation recommendations.
 4. Maintenance.
- E. Quality Assurance
1. Installer's Experience: Submit verification of evidence of similar work of this section.

Specifier Note: Coordinate article below with Contract Conditions and with Section [01 78 36 - Warranties].

- F. Warranty: Manufacturer's [10 year] warranty, from date of substantial completion, covering defects in materials.

Specifier Note: Retain the following only if specifying for a LEED project. Specify only the technical submittal requirements necessary to achieve the credits desired for this Project.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Specialized in installation of blinds -between-glass component glazing units.
- B. Installation Documents: Maintain manufacturer's installation instructions, approved submittals and related documents on-site to confirm proper installation.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery:
 1. Deliver materials in accordance with manufacturer's written instructions.
 2. Deliver materials 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.
- B. Material Storage:
 1. Store materials protected from exposure to harmful environmental conditions, clean, dry, frost-free and at manufacturer's recommended temperature and humidity levels.
- C. 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.

1.6 WARRANTY

- A. Manufacturer's Warranty
 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.

PART 2 PRODUCTS

Specifier Note: Retain Article below for proprietary method specification. Add product attributes performance characteristics, material standards and descriptions in other articles as applicable. Use of such phrases as "or equal," "approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.1 SPECIAL FUNCTION GLAZING



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- A. Acceptable Manufacturer: ODL, Inc.; Address: 215 E. Roosevelt Avenue, Zeeland, Michigan, 49464; Phone: (866) 472-0042; Fax: (616) 772-3840; Email: blink@odl.com; Website: www.blinkodl.com.

Specifier Note: Retain and edit the following paragraph to meet the project requirements.

1. Single Source Responsibility: Provide components and materials specified in this section.
2. Substitutions: No substitutions permitted.

Specifier Note: Include an overall description of the system, assembly, product or material. Include required properties or characteristics that do not obviously belong under other titles. Examples: Configuration, size and color.

- B. Product: Blink Blinds + Glass blinds-between-glass insulated glazing unit with enclosing glass edges and internal blind operating mechanism.

Specifier Note: Blink Blinds + Glass units are available with annealed or tempered safety glass. Select type of glass.

1. Type of glass: [Annealed; meeting ASTM C1036 and ASTM C1048] [Tempered; meeting ASTM C1036, ASTM C1048, ANSI Z97.1 and CSPC 16-CRF, Part 1201, Category II].

Specifier Note: Unit size is based on maximum area for annealed glass of 15 square feet; with one operator; with no operator more than 36 inches in any one direction; and maximum area for tempered glass of 12 square feet with one operator or 12 to 17 square feet with two operators and no more than 36 inches in any one direction. Specify unit size by area.

2. Unit size by area: [___ square feet] [As shown on shop-drawing].

Specifier Note: Unit height is based on minimum of 13 inches to maximum of 80 inches.

3. Unit height: [___ inches] [As shown on shop-drawing].

Specifier Note: Unit width is based on minimum of 14 inches to maximum of 80 inches.

4. Unit width: [___ inches] [As shown on shop-drawing].

Specifier Note: Blink Blinds + Glass units are available in six colors; housing, external operator, blinds and other visible components inside airspace are color matched. Specify unit color.

5. Color: [White] [Tan] [Sand] [Espresso] [Silver Moon] [Slate Grey].

C. Components:

1. Blinds: 1/2 inch wide; aluminum with UV stabilized coating.
2. Housing: UV stabilized, heat tolerant PVC with edge cap.

Specifier Note: Blink Blinds + Glass are available with operator for left or right hand operation and high or low position when glazing unit height is greater than 30 inches on single operator units only. Select left or right hand operation; and high or low operator position.

3. Operator: UV stabilized, heat tolerant PVC handle and slide-rail; controls raise, lower, and tilt functions; locate for [left] [right] hand operation in [high] [low] position.

Specifier Note: Blink Blinds + Glass provides double-pane, insulated, clear and coated glass units fabricated with annealed or tempered glass. Select either double-pane insulated clear or double-pane insulated coated glass unit and either annealed or tempered safety glass.

Specifier Note: Retain and edit the following Article if double-pane, insulated clear glass is required. Delete if double-pane, insulated coated glass is used.

4. Double-pane, insulated clear glass unit, meeting ASTM E2190:

- a. Inboard lite: 1/8 inch [annealed] [tempered safety] clear glass.
- b. Outboard lite: 1/8 inch [annealed] [tempered safety] clear glass.
- c. Air-space: 3/4 inch formed with Intercept tin-plated steel spacer with applied desiccant matrix; hermetically sealed.
- d. Unit thickness: 1 inch.

Specifier Note: Retain and edit the following if double-pane, insulated coated glass is required. Delete if insulated clear glass is used.

5. Double-pane, insulated coated glass unit, meeting ASTM E2190:
 - a. Inboard lite: 1/8 inch [annealed] [tempered safety] coated glass.
 - b. Outboard lite: 1/8 inch [annealed] [tempered safety] coated glass.

Specifier Note: Blink Blinds + Glass provides Cardinal Low-E 270, 272, 340 and 366 performance coatings for glass surface inside double panes; Surface #2. Retain and edit the following paragraph if Low-E performance is required and indicate for Surface #2 on shop drawing glass design. Delete if Cardinal 270, Cardinal 272, Cardinal 340 or Cardinal 366 is not used.

- c. Low-E performance coating; Surface #2: [Cardinal 270] [Cardinal 272] [Cardinal 340] [Cardinal 366].

Specifier Note: Blink Blinds + Glass provides Cardinal Low-E i89 energy-saving coating for interior, room-size glass surface; Surface #4. Retain and edit the following paragraph if Low-E i89 energy-saving coating is required and indicate for Surface #4 on shop-drawing glass design, if selected. Delete if Cardinal Low-E i89 is not used.

- d. Low-E energy-saving coating; Surface #4; Cardinal I89.

Specifier Note: Blink Blinds + Glass provides Cardinal Neat self-cleaning maintenance coating for exterior glass Surface #1. Select following paragraph as required; and indicate for Surface #1 on shop drawing glass design, if selected. Indicate self-cleaning maintenance coating on shop-drawing glass design.

- e. Self-cleaning maintenance coating; Surface #1: Cardinal Neat.
- f. Air-space: 3/4 inch formed with Intercept tin-plated steel spacer with applied desiccant matrix; hermetically sealed.
- g. Unit thickness: 1 inch.

2.2 FABRICATION

- A. Fabricator: Use only fabricators who have training and [three] years minimum experience of work similar to work of this Section.
- B. Fabricate frame to sizes and profiles indicated.
- C. Assemble corners of the frame for structural integrity.
- D. Fill corners with silicone for additional reinforcement.
- E. Fit by snap bead surfaces to be glazed.
 1. Using an EPDM gasket, fit into the channels of the aluminum profiles.
- F. Install hardware specified.

2.3 SOURCE QUALITY CONTROL

- A. Use only fabricators who have training and experience similar to work of this Section.

PART 3 EXECUTION

3.1 PREPARATION

Specifier Note: Specify preparatory work required prior to installation/application/erection of primary products.

- A. Prepare glass pockets to receive Blink Blinds + Glass products in accordance with ODL's instructions and approved submittals.

B. []].

3.2 INSTALLATION

A. Install blinds-between glass component glazing units in accordance with manufacturer's written recommendations and approved submittals.

3.3 SEALANTS

A. Apply sealant in accordance with manufacturer's written installation guidelines.

3.4 CLEANING

A. Clean sealants, caulking and other materials from surfaces, including adjacent work.

B. Clean frames, casings and glass using materials and methods recommended by the manufacturer.

1. Clean using methods which comply with AAMA 609.

C. Clean glass using methods which comply with GANA 01-0300.

D. Protect installed products until completion of project.

Specifier Note: 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.

3.5 PROTECTION

A. Protect blinds -between-glass component glazing from damage during construction in accordance with manufacturer's instructions and approved submittals.

END OF SECTION