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## Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat*, *SectionFormat*, and *PageFormat*, as described in *The Project Resource Manual—CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" when editing this section.

Section numbers and titles are from *MasterFormat* 1995 Edition, with numbers and titles from *MasterFormat* 2004 Edition in parentheses. Delete version not required.

### SECTION 08584 (08 56 53)

#### SECURITY WINDOWS

Specifier Notes: This section covers Ready Access flush-mount and bump-out drive-thru security windows. Consult Ready Access for assistance in editing this section for the specific application.

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Drive-thru security windows.

##### 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

- A. Section 07620 (07 62 00) - Sheet Metal Flashing and Trim.
- B. Section 07920 (07 92 00) - Joint Sealants.

Specifier Notes: Include reference to Section 16100 (26 05 00) when specifying fully automatic electric service panel operation.

- C. Section 16100 (26 05 00) - Wiring Methods (Common Work Results for Electrical).

### 1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. This article does not require compliance with standards, but is merely a listing of those used.

- A. ASTM A 240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
- B. ASTM A 653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- C. ASTM B 209 - Aluminum and Aluminum-Alloy Sheet and Plate.
- D. ASTM B 221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
- E. ASTM C 1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
- F. ASTM E 773 - Accelerated Weathering of Sealed Insulating Glass Units.
- G. ASTM E 774 - Classification of the Durability of Sealed Insulating Glass Units.
- H. ASTM F 1233 - Security Glazing Materials And Systems.
- I. UL 752 - Bullet-Resisting Equipment.

### 1.4 SUBMITTALS

- A. Comply with Section 01330 (01 33 00) - Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including materials, components, fabrication, finish, and installation instructions.

Specifier Notes: Include electrical wiring diagrams in the shop drawings when specifying fully automatic electric service panel operation.

- C. Shop Drawings: Submit manufacturer's shop drawings, including plans, elevations, sections, and details, indicating dimensions, tolerances, materials, fabrication, glazing, fasteners, hardware, finish, electrical wiring diagrams, options, and accessories.
- D. Samples: Submit manufacturer's samples of standard finishes.
- E. Manufacturer's Certification: Submit manufacturer's certification that materials comply with specified requirements and are suitable for intended application.
- F. Manufacturer's Project References: Submit list of successfully completed security window projects, including project name and location, name of architect, and type and quantity of

security windows installed.

Specifier Notes: Include electrical wiring diagrams in the operation and maintenance manual when specifying fully automatic electric service panel operation.

- G. Operation and Maintenance Manual: Submit manufacturer's operation and maintenance manual, including operation, maintenance, adjustment, and cleaning instructions, trouble shooting guide, parts list, and electrical wiring diagrams.
- H. Warranty: Submit manufacturer's standard warranty.

## 1.5 QUALITY ASSURANCE

- A. Manufacturer's Qualifications: Minimum of 10 years successful experience continuously manufacturing security windows.

## 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions.
- C. Handling: Protect materials and finish from damage during handling and installation.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. Ready Access, Inc., 1815 Arthur Drive, West Chicago, Illinois 60185. Toll Free (800) 621-5045. Phone (630) 876-7766. Fax (630) 876-7767. Web Site [www.ready-access.com](http://www.ready-access.com). E-Mail [ready@ready-access.com](mailto:ready@ready-access.com).

Specifier Notes: Specify the required security windows and delete the others. Consult Ready Access for assistance in determining security windows for the specific application. Custom window dimensions are available.

### 2.2 FLUSH-MOUNT SECURITY WINDOWS

- A. Modular Security Drive-Thru Windows: 600 Series Flush-Mount Window.
  - 1. Window Dimensions: [47-1/2 inches wide by 43-1/2 inches high by 4-1/2 inches deep] [47-1/2 inches wide by 35-3/4 inches high by 4-1/2 inches deep] [47-1/2 inches wide by 30 inches high by 4-1/2 inches deep] [ \_\_\_\_\_ inches wide by \_\_\_\_\_ inches high by \_\_\_\_\_ inches deep].
  - 2. Service Panel Operation: [Manual] [Fully automatic electric].
  - 3. Service Panel Type: Sliding, 1 panel.
  - 4. Opening Direction: [Right to left] [Left to right].
  - 5. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
  - 6. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.

7. Galvanized Steel Sheet: ASTM A 653, G90.

Specifier Notes: Delete the optional security bar set if not required.

8. Security: Self-latches each time panel closes. Deadbolt lock. [Security bar set.]
9. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
10. Handle: Stainless steel.
11. Lock: Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumbturn. [Keyed mortise cylinder.]
12. Glazing:

Specifier Notes: Specify the required glazing and delete the others.

- a. 3/4-inch insulated glass, ASTM E 773 and E 774.
  - b. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
  - c. 3/4-inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
13. Silicone Glazing Sealant: Dow Corning 999A, aluminum.

Specifier Notes: Specify one of the following electrical requirements for fully automatic service panel operation. Delete for manual service panel operation.

14. Electrical: [115 V, 60 Hz, with 15 A branch circuit] [220 V, 50/60 Hz, with 8 A branch circuit].
- B. Modular Security Drive-Thru Windows: 601 Series Flush-Mount Window.
1. Window Dimensions: [47-1/2 inches wide by 58-1/2 inches high by 4-1/2 inches deep] [\_\_\_\_\_ inches wide by \_\_\_\_\_ inches high by \_\_\_\_\_ inches deep].
  2. Service Panel Operation: [Manual] [Fully automatic electric].
  3. Service Panel Type: Sliding, 1 panel.
  4. Opening Direction: [Right to left] [Left to right].
  5. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
  6. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
  7. Galvanized Steel Sheet: ASTM A 653, G90.

Specifier Notes: Delete the optional security bar set if not required.

8. Security: Self-latches each time panel closes. Deadbolt lock. [Security bar set.]

Specifier Notes: Delete the optional security transaction drawer and optional speaker system if not required.

9. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. Level 3 bullet resistant protection.

10. Speaker System: AIPHONE Model LEM-1, prewired.
11. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
12. Handle: Stainless steel.
13. Lock: Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumbturn. [Keyed mortise cylinder.]
14. Glazing:

Specifier Notes: Specify the required glazing and delete the others.

- a. 3/4-inch insulated glass, ASTM E 773 and E 774.
  - b. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
  - c. 3/4-inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
15. Silicone Glazing Sealant: Dow Corning 999A, aluminum.

Specifier Notes: Specify one of the following electrical requirements for fully automatic service panel operation. Delete for manual service panel operation.

16. Electrical: [115 V, 60 Hz, with 15 A branch circuit] [220 V, 50/60 Hz, with 8 A branch circuit].
- C. Modular Security Drive-Thru Windows: 603 Series Flush-Mount Window.
1. Window Dimensions: [47-1/2 inches wide by 58-1/2 inches high by 4-1/2 inches deep] [\_\_\_\_\_ inches wide by \_\_\_\_\_ inches high by \_\_\_\_\_ inches deep].
  2. Service Panel Operation: None.
  3. Service Panel Type: Fixed.
  4. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
  5. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
  6. Galvanized Steel Sheet: ASTM A 653, G90.

Specifier Notes: Delete the optional security bar set if not required.

7. Security: Security bar set.
8. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. Level 3 bullet resistant protection.
9. Speaker System: AIPHONE Model LEM-1, prewired.
10. Interior Counter: Stainless steel, ASTM A 240, Type 304, No.4 finish.
11. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
12. Glazing:

Specifier Notes: Specify the required glazing and delete the others.

- a. 3/4-inch insulated glass, ASTM E 773 and E 774.
- b. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F

- 1233.
  - c. 3/4-inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
  - d. 1-1/4-inch GE Lexgard SP-1250 Laminate. 4-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 3.
13. Silicone Glazing Sealant: Dow Corning 999A, aluminum.

## 2.3 BUMP-OUT SECURITY WINDOWS

- A. Modular Security Drive-Thru Windows: 602 Series Bump-Out Window.
- 1. Window Dimensions: [47-1/2 inches wide by 60-1/2 inches high by 14-1/2 inches deep] [\_\_\_\_\_ inches wide by \_\_\_\_\_ inches high by \_\_\_\_\_ inches deep].
  - 2. Service Panel Operation: [Manual] [Fully automatic electric].
  - 3. Service Panel Type: Sliding, 1 panel.
  - 4. Opening Direction: [Right to left] [Left to right].
  - 5. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
  - 6. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
  - 7. Galvanized Steel Sheet: ASTM A 653, G90.

Specifier Notes: Delete the optional security bar set if not required.

- 8. Security: Self-latches each time panel closes. Deadbolt lock. [Security bar set.]

Specifier Notes: Delete the optional security transaction drawer and optional speaker system if not required.

- 9. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. Level 3 bullet resistant protection.
- 10. Speaker System: AIPHONE Model LEM-1, prewired.
- 11. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
- 12. Handle: Stainless steel.
- 13. Lock: Self-latching Adams Rite MS1847 Series with Adams Rite 1000 Series turn. Adams Rite MS1850 Series with Adams Rite 4066 Series mortise thumbturn. [Keyed mortise cylinder.]
- 14. Glazing:

Specifier Notes: Specify the required glazing and delete the other.

- a. 3/4-inch insulated glass, ASTM E 773 and E 774.
  - b. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
  - c. 3/4-inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
15. Silicone Glazing Sealant: Dow Corning 999A, aluminum.

Specifier Notes: Specify one of the following electrical requirements for fully automatic service panel operation. Delete for manual service panel operation.

16. Electrical: [115 V, 60 Hz, with 15 A branch circuit] [220 V, 50/60 Hz, with 8 A branch circuit].

B. Modular Security Drive-Thru Windows: 604 Series Bump-Out Window.

1. Window Dimensions: [47-1/2 inches wide by 60-1/2 inches high by 14-1/2 inches deep] [\_\_\_\_\_ inches wide by \_\_\_\_\_ inches high by \_\_\_\_\_ inches deep].
2. Service Panel Operation: None.
3. Service Panel Type: Fixed.
4. Frame: Extruded aluminum, ASTM B 221, Alloy 6063-T6.
5. Aluminum Sheet: ASTM B 209, Alloy 5005-AQ-H34.
6. Galvanized Steel Sheet: ASTM A 653, G90.

Specifier Notes: Delete the optional security bar set if not required.

7. Security: Security bar set.
8. Security Transaction Drawer: Stainless steel, 18-5/16 inches wide by 9-1/2 inches high by 14-9/32 inches deep transfer area, money clip, change cup. Automatically locks when closed. Manual latch lock. Level 3 bullet resistant protection.
9. Speaker System: AIPHONE Model LEM-1, prewired.
10. Interior Counter: Stainless steel, ASTM A 240, Type 304, No.4 finish.
11. Fasteners: Stainless steel rivets and hex-head zinc-plated self-threading machine screws.
12. Glazing:

Specifier Notes: Specify the required glazing and delete the others.

- a. 3/4-inch insulated glass, ASTM E 773 and E 774.
  - b. 3/4-inch GE Lexgard RC-750 Laminate. 3-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Forced-entry protection security glazing, ASTM F 1233.
  - c. 3/4-inch GE Lexgard MP-750 Laminate. 3-ply clear, extruded Lexan polycarbonate and acrylic laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 1.
  - d. 1-1/4-inch GE Lexgard SP-1250 Laminate. 4-ply clear, extruded Lexan polycarbonate laminate with Margard surface. Bullet-resistant security glazing, ASTM F 1233. UL 752, Level 3.
13. Silicone Glazing Sealant: Dow Corning 999A, aluminum.

## 2.4 ACCESSORIES

Specifier Notes: Specify required accessories. Delete accessories not required.

A. Pass-Thru Slot: "Security".

Specifier Notes: Specify the 30-inch wide by 4-1/2-inch high transfer area when specifying the optional 1-1/4-inch thick, acrylic, bullet-resistant material.

1. Transfer Area: [33 inches wide by 4-1/2 inches high] [30 inches wide by 4-1/2 inches high].
2. Currency tray.
3. Transfer Slot: 1-way, hinged, security flap that self-closes as soon as product passes through transfer area.

Specifier Notes: Specify one of the following acrylic materials. Consult Ready Access for more information.

4. Material: [Acrylic] [1-1/4-inch thick, acrylic, bullet-resistant material] [UL-approved, 1-1/4-inch thick, acrylic, Level 1, bullet-resistant material].

B. Pass-Thru Slot: "Smash & Grab".

1. Transfer Area: 33 inches wide by 5 inches high.
2. Currency tray.
3. Transfer Slot: 1-way, hinged, security flap that self-closes as soon as product passes through transfer area.

Specifier Notes: Specify one of the following acrylic materials. Consult Ready Access for more information.

4. Material: [Acrylic] [3/4-inch thick, acrylic, impact-resistant material].

C. Extending Deal Tray:

1. Dimensions: 12 inches wide by 16-3/4 inches long by 3-3/4 inches high.
2. Material: Stainless steel.
3. Drawer Faceplate: UL-approved, Level 3, bullet-resistant material.
4. Interior Transfer Area: Contains removable deal tray that, when removed, reveals extending transaction drawer.
5. Removable Deal Tray: 9-5/8 inches wide by 14-3/8 inches long by 2 inches deep, with curved interior angles for easy coin, currency, and paper removal.
6. Interior Transfer Area of Deal Tray: Accepts currency clip to secure currency or small paper items during operation.

## 2.5 FABRICATION

- A. Assembly: Factory assembled, factory glazed.

## 2.6 ALUMINUM FINISH

Specifier Notes: Specify clear anodized finish or powder coat painted finish for each security window.

- A. Anodized: Clear, AA-M10-C12-C22-A31, ASTM B 680.
- B. Powder Coat Painted:
  1. Paint: Tiger Drylac Series 49.
  2. System: Heated phosphate-cleaned, electrostatic powder-coated, infrared oven-cured.

Specifier Notes: Consult Ready Access for availability of custom colors.

3. Color: \_\_\_\_\_ .

### **PART 3 EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine areas to receive security windows. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

#### **3.2 PREPARATION**

- A. Ensure openings to receive security windows are plumb, level, square, accurately aligned, correctly located, and in tolerance.

#### **3.3 INSTALLATION**

- A. Install security windows in accordance with manufacturer's instructions.
- B. Install security windows plumb, level, square, true to line, and without warp or rack.
- C. Install security window components weathertight.
- D. Anchor security windows securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
- E. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
- F. Sheet Metal Flashing: Install sheet metal flashing as specified in Section 07620 (07 62 00).
- G. Joint Sealants: Install joint sealants as specified in Section 07920 (07 92 00).

Specifier Notes: Include the following sentence when specifying fully automatic electric service panel operation.

- H. Electrical: Install electrical power as specified in Section 16100 (26 05 00).
- I. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- J. Remove and replace damaged components that cannot be successfully repaired as determined by Architect.

#### **3.4 ADJUSTING**

Specifier Notes: Edit the following three sentences if movable service panels, security transaction drawers, or speaker systems are not specified.

- A. Adjust movable service panels to be weathertight in closed position.

- B. Adjust movable service panels and security transaction drawers to function properly and for smooth operation without binding.
- C. Adjust speaker system to function properly.

### **3.5 CLEANING**

- A. Clean security windows promptly after installation in accordance with manufacturer's instructions.
- B. Remove excess joint sealant in accordance with sealant manufacturer's instructions.
- C. Do not use harsh cleaning materials or methods that would damage glazing or finish.

### **3.6 PROTECTION**

- A. Protect installed security windows to ensure that, except for normal weathering, security windows will be without damage or deterioration at time of substantial completion.

**END OF SECTION**