(**Specifier Note**: The purpose of this guide specification is to assist the Specifier in correctly specifying bullet resisting barriers and their installation.

The Specifier needs to edit this guide specification to fit the needs of each specific project. References have been made within the text of the specification to MasterFormat section numbers and titles. The Specifier needs to coordinate these numbers and titles with sections included for the specific project.

Throughout the guide specification, there are Specifier Notes to assist in the editing of the file. Brackets have been used to indicate when a selection is required. Contact an Insulgard representative for further assistance with appropriate product selections)

**SECTION 08 56 53 – SECURITY WINDOWS**

**Insulgard Arched and Square Top Counterline Windows**

1. GENERAL
   * + 1. SECTION INCLUDES
          1. Interior Bullet ResistingBarriers
       2. ACTION SUBMITTALS
          1. Refer to Section [01 33 00 Submittal Procedures] [Insert section number and title].
          2. Product Data: For each type of glass
          3. Shop Drawings: Include plans, elevations, sections, details, anchorage to other work.
       3. INFORMATION SUBMITTALS
          1. Product Test Reports: Indicating compliance with requirements
       4. CLOSEOUT SUBMITTALS
          1. Refer to Section [01 78 00 Closeout Submittals] [Insert section number and title].
          2. Cleaning Instructions
       5. DELIVERY, STORAGE AND HANDLING
          1. Refer to Section [01 60 00 Product Requirements] [Insert section number and title].
       6. WARRANTY

*(****Specifier Note****: The glass warranty is a pass through warranty from the glazing manufacturer and is dependent upon the glass selected. DELETE warranty for products not project specific.)*

* + - * 1. Special Warranty for Security Glass - Acrylic

Manufacturer agrees to replace glass units that deteriorate within a period of 20 years. Deterioration includes the development of defects that are not caused by breakage, or improper maintenance and cleaning. Defects as identified by the glass manufacturer the include:

Discoloration of coating in excess of 3% when tested in accordance with ASTM D 1003 - Standard Test Method for Haze and Luminous Transmittance of Transparent Plastics.

Chipping of abrasions resistant coating

* + - * 1. Special Warranty for Security Glass - Laminate (Lexgard)

Manufacturer agrees to replace glass units that deteriorate within a period of 10 years. Deterioration includes the development of defects that are not caused by breakage, or improper maintenance and cleaning. Defects as identified by the glass manufacturer the include:

Structural Delamination

Coating Failure

Haze of more than 15%

1. PRODUCTS

(**Specifier Note**: Product information is proprietary to Insulgard Security Products. If additional products are required for competitive procurement, contact Insulgard, Inc. for assistance in listing competitive products that may be available.)

* + - 1. MANUFACTURED UNIT
         1. Basis of Design: [Arched] [Square Top] Counterline by Insulgard Security Products; Phone 800.624.6315; website [www.insulgard.com](http://www.insulgard.com)

Subject to compliance with requirements, manufacturers of products of equivalent design may be acceptable if approved in accordance with [Section 01 25 00 Substitution Procedures] [Insert section number and title].

* + - 1. DESCRIPTION
         1. Glazing for panels [and support buttress]

(**Specifier Note**: SELECT glazing based on threat level and architect’s preferences.)

UL Level 1: [1-1/4 inch acrylic] [1-1/4 inch coated acrylic] [3/4 inch MP750 Lexgard]

UL Level 2: [1-3/8 inch coated acrylic] [1 inch MP1000 Lexgard]

UL Level 3: [1-1/4 inch coated acrylic] [1-1/4 inch SP1250 Lexgard]

* + - * 1. Fasteners and Fittings

Clips, fasteners and anchors: Manufacturer standards stainless steel, chrome

Bottom Glass Rail: Anodized Aluminum “U” Channel to accommodate thickness of glass.

* + - * 1. Accessories

(Specifier Note: DELETE Accessories that are not project specific.)

[Recessed] [Surface Mounted] Deal Tray: stainless steel

PE Package Passer:

Constructed of glazing materials consistent with UL Level for the Barrier Assembly

Size: [14 inches wide by 14 inches high by 14 inches deep] [16 inches wide by 14 inches high by 14 inches deep] [custom sizes]

Opaque Panels: FG Series Fiberglass

UL Level: [insert ballistics level]

Thickness: [insert thickness based on UL Level]

* + - 1. PERFORMANCE CRITERIA
         1. Ballistic Resistant: Level [**1**] [**2**] [**3**] in accordance with UL 752 – Testing for Ballistic Resistance for the framing and glazing.
      2. FABRICATION
         1. Fabricate from manufacturer’s standard materials to comply with indicated ballistic resistance requirements

1. EXECUTION
   * + 1. PREPARATION
          1. Verify field dimensions of opening prior to fabrication of counterline window.
          2. Coordinate structural requirements to ensure proper attachment and support.
       2. INSTALLATION
          1. Install counterline windows in accordance with manufacturer's recommendations and approved shop drawings.
          2. Provide required support and securely fasten and set windows plumb, square, and level without twist or bow.
       3. CLEANING
          1. Clean security window surfaces after installation, avoiding damage to finishes. Remove excess glazing and sealant compound and dirt.
       4. PROTECTION
          1. Protect transaction windows damage during construction operations. If damage occurs, remove and replace as required to provide windows in their original, undamaged condition.

END OF SECTION