(**Specifier Note**: The purpose of this guide specification is to assist the Specifier in correctly specifying bullet resistant door assemblies 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 34 53 – SECURITY DOORS AND FRAMES**

**Insulgard LC Bullet Resisting Door System**

1. GENERAL
	* + 1. SECTION INCLUDES
				1. Bullet Resistant Door Assemblies
			2. ACTION SUBMITTALS
				1. Refer to Section [**01 33 00 Submittal Procedures**] [**Insert section number and title**].
				2. Product Data: For each type of door assembly, including manufacturer recommended installation instructions.
				3. Shop Drawings: Include plans, elevations, sections, details, attachment to other work
				4. Samples: For each exposed finish.
			3. INFORMATION SUBMITTALS
				1. Product Test Reports: Indicating compliance with requirements
				2. Warranty: Sample of finish warranty
			4. CLOSEOUT SUBMITTALS
				1. Refer to Section [**01 78 00 Closeout Submittals**] [**Insert section number and title**].
				2. Maintenance data.
			5. DELIVERY, STORAGE AND HANDLING
				1. Refer to Section [**01 60 00 Product Requirements**] [**Insert section number and title**].
			6. WARRANTY

(**Specifier Note**: The 5 year finish warranty applies to the Class I anodic finishes and the 10 year applies to the 70% PVDF coating finish.)

* + - * 1. Finish Warranty: Manufacturer’s warranty against deterioration of factory finishes for the period of **[5] [10]** years from the date of Substantial Completion.
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 UNITS
				1. Basis of Design: LC Bullet Resisting Door System 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

Style: **[As Indicated on Drawings] [ 12 by 18 view window] [ peephole viewer] [full opaque] [ vertical lite view]**

Door: **[Laminate] [Painted]** faced lumber core door with ballistic resistant fiberglass sheet.

Frame: 1-3/4 inch by 4 inch metal tube frame with concealed shear block

Manufacturer Standard Door Hardware including:

(**Specifier Note**: Item listed is standard hardware, items indicated in brackets are options and may require additional coordination, including electrical requirements. Custom security hardware may also be provided and should replace the items below as required for specific project.)

Continuous Hinges

Overhead Surface Closer

Lever lockset **[with electric strike release]**

Anti-Jimmy plate

Door stop

**[Heavy Duty Exit Device]**

* + - 1. PERFORMANCE CRITERIA

(**Specifier Note**: DELETE Ballistic resistance requirements that are not project specific.)

* + - * 1. Ballistic Resistant: Level [**1**] [**2**] [**3**] in accordance with UL 752 – Testing for Ballistic Resistance for the complete assembly including framing and glazing.
			1. FABRICATION
				1. Tolerances: All joints and connections shall be tight, providing hairline joints and true alignment of adjacent members
			2. FRAMING FINISH
				1. Factory-applied Frame Finish:

(**Specifier Note**: SELECT the project specific finish from the following. Baked Enamel may also be available but may require minimum quantities.)

[**Clear Anodic Finish**]: Architectural Class I, clear coating AA-M10C22A41 Mechanical Finish Chemical Finish: etched, medium matte; 0.70 mils minimum complying with AAMA 611 "Voluntary Specification for Anodized Architectural Aluminum"

[**Color Anodic Finish**]: Architectural Class I, color coating AA-M10C22A42/A44 Mechanical Finish Chemical Finish: etched, medium matte; 0.70 mils minimum complying with AAMA 611 "Voluntary Specification for Anodized Architectural Aluminum".

Color: Dark Bronze.

[**PVDF-Based Coating**]: Fluoropolymer finish containing minimum 70 percent PVDF resins, in accordance with AAMA 2605 “Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels”

Coats: [**two**] [**three**] [**four**] coat system,

Color: [**Insert color**] [**custom**] [**to be selected from manufacturer's full color range**].

* + - 1. GLAZING

(**Specifier Note**: SELECT glazing based on threat level and architect’s preferences. Armor-Gard products offer glass to the attack side. )

* + - * 1. Glazing Material:

Ballistic Resistance Level 1: **[1-1/4 inch acrylic] [3/4 inch MP750 Lexgard] [BALULN21 Armor-Gard]**

Ballistic Resistance Level 2: **[1-3/8 inch acrylic] [1 inch MP1000 Lexgard] [BALULN23 Armor-Gard]**

Ballistic Resistance Level 3: **[1-1/4 inch acrylic] [1-1/4 inch SP1250 Lexgard] [BALULN25 Armor-Gard]**

* + - * 1. Glazing gaskets: manufacturer recommended.
			1. ACCESSORIES
				1. Anchors: Fully concealed.
1. EXECUTION
	* + 1. PREPARATION
				1. Verify field dimensions of opening prior to fabrication of door assemblies.
				2. Coordinate structural requirements to ensure proper attachment and support.
			2. INSTALLATION
				1. Install doors and frames in accordance with manufacturer's recommendations and approved shop drawings.
				2. Provide required support and securely fasten and set doors and frames plumb, square, and level without twist or bow.
				3. Apply sealant in accordance with door and sealant manufacturer's recommendations as indicated in installation instructions. Wipe off excess, and leave exposed sealant surfaces clean and smooth
			3. ADJUSTING AND CLEANING
				1. Adjust door to provide for weather tightness, and leave doors clean and free of debris.
			4. PROTECTION
				1. Protect doors and glazing from damage during construction operations. If damage occurs, remove and replace as required to provide windows in their original, undamaged condition.

END OF SECTION