

SECTION 13 10 00

BULLET RESISTANT ARCHITECTURAL ASSEMBLIES

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PART 1 GENERAL

* 1. SECTION INCLUDES

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

* + 1. Bullet Resistant Transaction Windows.
	1. RELATED SECTIONS

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

* + 1. Section 05 10 00 - Structural Metal Framing.
		2. Section 05 50 00 - Metal Fabrications.
		3. Section 06 10 00 - Rough Carpentry.
		4. Section 08 71 00 - Door Hardware.
		5. Section 08 83 13 - Mirrored Glass Glazing.
		6. Section 09 90 00 - Painting and Coating.
	1. REFERENCES

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

* + 1. Underwriters Laboratories (UL):
			1. UL 10B - Standard for Fire Tests of Door Assemblies.
			2. UL 752 - Standard for Bullet-Resisting Equipment.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data:
			1. Manufacturer's data sheets on each product to be used.
			2. Preparation instructions and recommendations.
			3. Storage and handling requirements and recommendations.
			4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.

* + 1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
		2. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color, and patterns.
		3. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
	1. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five 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. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.
	2. 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.
	3. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
	4. 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.
	5. SEQUENCING
		1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	6. WARRANTY
		1. Manufacturer's Warranty: Provide manufacturer's standard limited warranty.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Chicago Bullet Proof Systems, which is located at: 2595 Bond St.; University Park, IL 60484; Tel: 708-534-9102; Fax: 708-534-9132; Email:[request info (max@chicagobulletproof.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Chicago+Bullet+Proof+Systems&coid=31417&rep=&fax=708-534-9132&message=RE:%20Spec%20Question%20(13065cbp):%20%20&mf=); Web:<https://chicagobulletproof.com>

\*\* 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 provisions of Section 01 60 00 - Product Requirements.
	1. BULLET RESISTANT VISION WINDOWS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* 1. BULLET RESISTANT TRANSACTION WINDOWS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design paragraphs if not required.

* + 1. Basis of Design: Standard Transaction Window, Model STW; as manufactured by Chicago Bullet Proof Systems.
			1. Performance and Design Requirements:

\*\* NOTE TO SPECIFIER \*\* Delete bullet resistance options not required.

* + - * 1. Bullet Resistance: UL 752, Level 1.
				2. Bullet Resistance: UL 752, Level 2.
				3. Bullet Resistance: UL 752, Level 3.
				4. Bullet Resistance: UL 752, Level 4.
				5. Bullet Resistance: UL 752, Level 5.
				6. Bullet Resistance: UL 752, Level 6.
				7. Bullet Resistance: UL 752, Level 8.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: Factory applied rust-inhibiting primer.
			2. Finish: Stainless steel.
			3. Frame:

\*\* NOTE TO SPECIFIER \*\* Delete opening size option size not required.

* + - * 1. Opening Size: As indicated on Drawings.
				2. Opening Size (WxH, in/mm): \_\_\_\_\_\_ .
				3. Profile: Single rabbeted..

\*\* NOTE TO SPECIFIER \*\* Delete profile dimension option not required.

* + - * 1. Profile Dimensions: As indicated on the Drawings.
				2. Profile Dimensions (WxH, in/mm): \_\_\_\_\_\_ .
				3. Three sided frame bolted to deal tray and voice panel sill.
				4. Corners mitered, welded, and ground smooth.

\*\* NOTE TO SPECIFIER \*\* Delete sill option not required.

* + - 1. Sill: Standard sill:
				1. Material: Stainless steel.
				2. Integral deal tray and voice panel.
				3. Profile: 3 x 11 inches (76 x 279 mm) deep by width of window.
				4. Bolted to window frame.
			2. Sill: Mortise sill:
				1. Material: Stainless steel.
				2. Integral deal tray and natural voice transmission.
				3. Profile: 3 x 9 inches (76 x 229 mm) deep by width of window.
				4. Recessed into countertop.

\*\* NOTE TO SPECIFIER \*\* Delete tray option not required.

* + - 1. Deal Tray and Voice Panel Sill:
				1. Single deal tray with voice panels adjacent to deal tray in sill.
				2. Deal tray sized to pass items not exceeding 12-3/4 x 1-5/8 inches (324 x 41 mm).
				3. Voice panel shall include an acoustically balanced natural voice transmission system.
				4. Material: Stainless steel.
			2. Drop-in Tray: Modified non-labeled assembly with 3-sided frame:
				1. Natural voice transmission spacers.
				2. Stainless steel glass channel.
				3. Deal Tray: Model NDT, bullet resistant non-ricochet drop-in deal tray, 16-3/8 x 11 x 1-5/8 inches (416 x 279 x 41 mm).
			3. Writing Ledge: Stainless steel writing ledge:
				1. Integral to sill.
				2. Size: 6-1/2 inches (165 mm) by width of window.

\*\* NOTE TO SPECIFIER \*\* Delete ledge installation location options not required.

* + - * 1. Ledge Installation Location: Threat side.
				2. Ledge Installation Location: Non-threat side.
				3. Ledge Installation Location: Threat side and non-threat side.
			1. Glass Armor: UL 752 listed bullet resistant transparent armor.
		1. Basis of Design: Narrow Profile Transaction Window, Model NTW; as manufactured by Chicago Bullet Proof Systems.
			1. Performance and Design Requirements:

\*\* NOTE TO SPECIFIER \*\* Delete bullet resistance options not required.

* + - * 1. Bullet Resistance: UL 752, Level 1.
				2. Bullet Resistance: UL 752, Level 2.
				3. Bullet Resistance: UL 752, Level 3.
				4. Bullet Resistance: UL 752, Level 4.
				5. Bullet Resistance: UL 752, Level 6.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: Factory applied rust-inhibiting primer.
			2. Finish: Stainless steel.
			3. Frame:

\*\* NOTE TO SPECIFIER \*\* Delete opening size option not required.

* + - * 1. Opening Size: As indicated on Drawings.
				2. Opening Size (WxH, in/mm): \_\_\_\_\_\_ .

\*\* NOTE TO SPECIFIER \*\* Delete profile option not required. 3-3/4 inch (95 mm) depth is required for level 4 or higher.

* + - * 1. Profile: Single rabbeted with 1-1/4 inch (32 mm) face dimension and 3-1/4 inch (83 mm) depth.
				2. Profile: Single rabbeted with 1-1/4 inch (32 mm) face dimension and 3-3/4 inch (95 mm) depth.
				3. Three-sided frame bolted to deal tray and voice panel sill.
				4. Corners mitered, welded, and ground smooth.

\*\* NOTE TO SPECIFIER \*\* Delete sill option not required.

* + - 1. Sill: Standard sill:
				1. Material: Stainless steel.
				2. Integral deal tray and voice panel.
				3. Profile: 3 x 11 inches (76 x 279 mm) deep by width of window.
				4. Bolted to window frame.
			2. Sill: Mortise sill:
				1. Material: Stainless steel.
				2. Integral deal tray and natural voice transmission.
				3. Profile: 3 x 9 inches (76 x 229 mm) deep by width of window.
				4. Recessed into countertop.

\*\* NOTE TO SPECIFIER \*\* Delete tray option not required.

* + - 1. Deal Tray and Voice Panel Sill:
				1. Single deal tray with voice panels adjacent to deal tray in sill.
				2. Deal tray sized to pass items not exceeding 12-3/4 x 1-5/8 inches (324 x 41 mm).
				3. Voice panel shall include an acoustically balanced natural voice transmission system.
				4. Material: Stainless steel.
			2. Drop-in Tray: Modified non-labeled assembly with 3-sided frame:
				1. Natural voice transmission spacers.
				2. Stainless steel glass channel.
				3. Deal Tray: Model NDT, bullet resistant non-ricochet drop-in deal tray, 16-3/8 x 11 x 1-5/8 inches (416 x 279 x 41 mm).
			3. Writing Ledge: Stainless steel writing ledge:
				1. Integral to sill.
				2. Size: 6-1/2 inches (165 mm) by width of window.

\*\* NOTE TO SPECIFIER \*\* Delete ledge installation location options not required.

* + - * 1. Ledge Installation Location: Threat side.
				2. Ledge Installation Location: Non-threat side.
				3. Ledge Installation Location: Threat side and non-threat side.
			1. Glass Armor: UL 752 listed bullet resistant transparent armor.
		1. Basis of Design: Clamp-On Transaction Window, Model CTW; as manufactured by Chicago Bullet Proof Systems.
			1. Performance and Design Requirements:

\*\* NOTE TO SPECIFIER \*\* Delete bullet resistance options not required.

* + - * 1. Bullet Resistance: UL 752, Level 1.
				2. Bullet Resistance: UL 752, Level 2.
				3. Bullet Resistance: UL 752, Level 3.
				4. Bullet Resistance: UL 752, Level 4.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: Factory applied rust-inhibiting primer.
			2. Finish: Stainless steel.
			3. Frame:

\*\* NOTE TO SPECIFIER \*\* Delete opening size not required.

* + - * 1. Opening Size: As indicated on Drawings.
				2. Opening Size (WxH, in/mm): \_\_\_\_\_\_ .
				3. Profile: Adjustable frame with 2 inch (51 mm) face dimension and depth adjustable from 4-1/2 to 8-1/2 inches (114 to 216 mm).
				4. Three sided frame bolted to deal tray and voice panel sill.
				5. Corners mitered, welded, and ground smooth.

\*\* NOTE TO SPECIFIER \*\* Delete sill option not required.

* + - 1. Sill: Standard sill:
				1. Material: Stainless steel.
				2. Integral deal tray and voice panel.
				3. Profile: 3 x 11 inches (76 x 279 mm) deep by width of window.
				4. Bolted to window frame.
			2. Sill: Mortise sill:
				1. Material: Stainless steel.
				2. Integral deal tray and natural voice transmission.
				3. Profile: 3 x 9 inches (76 x 229 mm) deep by width of window.
				4. Recessed into countertop.

\*\* NOTE TO SPECIFIER \*\* Delete tray option not required.

* + - 1. Deal Tray and Voice Panel Sill:
				1. Single deal tray with voice panels adjacent to deal tray in sill.
				2. Deal tray sized to pass items not exceeding 12-3/4 x 1-5/8 inches (324 x 41 mm).
				3. Voice panel shall include an acoustically balanced natural voice transmission system.
				4. Material: Stainless steel.
			2. Drop-in Tray: Modified non-labled assembly with 3-sided frame:
				1. Natural voice transmission spacers.
				2. Stainless steel glass channel.
				3. Deal Tray: Model NDT, bullet resistant non-ricochet drop-in deal tray, 16-3/8 x 11 x 1-5/8 inches (416 x 279 x 41 mm).
			3. Writing Ledge: Stainless steel writing ledge:
				1. Integral to sill.
				2. Size: 6-1/2 inches (165 mm) by width of window.

\*\* NOTE TO SPECIFIER \*\* Delete ledge installation location options not required.

* + - * 1. Ledge Installation Location: Threat side.
				2. Ledge Installation Location: Non-threat side.
				3. Ledge Installation Location: Threat side and non-threat side.
			1. Glass Armor: UL 752 listed bullet resistant transparent armor.
		1. Basis of Design: Sliding Transaction Window, Model SLDTW; as manufactured by Chicago Bullet Proof Systems.
			1. Performance and Design Requirements:

\*\* NOTE TO SPECIFIER \*\* Delete bullet resistance options not required.

* + - * 1. Bullet Resistance: UL 752, Level 1.
				2. Bullet Resistance: UL 752, Level 2.
				3. Bullet Resistance: UL 752, Level 3.
				4. Bullet Resistance: UL 752, Level 4.
				5. Bullet Resistance: UL 752, Level 5.
				6. Bullet Resistance: UL 752, Level 6.
				7. Bullet Resistance: UL 752, Level 8.

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: Factory applied rust-inhibiting primer.
			2. Finish: Stainless steel.

\*\* NOTE TO SPECIFIER \*\* Delete configuration options not required.

* + - 1. Configuration: Single sliding panel, left to right.
			2. Configuration: Single sliding panel, right to left.
			3. Configuration: Double sliding panel, primary sliding panel left to right.
			4. Configuration: Double sliding panel, primary sliding panel right to left.

\*\* NOTE TO SPECIFIER \*\* Delete profile dimension option not required.

* + - 1. Profile Dimensions: As indicated on the Drawings.
			2. Profile Dimensions: W x D (in/mm): \_\_\_\_\_\_.
			3. Frame:

\*\* NOTE TO SPECIFIER \*\* Delete opening size option not required.

* + - * 1. Opening Size: As indicated on Drawings.
				2. Opening Size (WxH, in/mm): \_\_\_\_\_\_ .
				3. Corners mitered, welded, and ground smooth.

\*\* NOTE TO SPECIFIER \*\* Delete sill option not required.

* + - 1. Sill: Standard sill:
				1. Material: Stainless steel.
				2. Integral deal tray and voice panel.
				3. Profile: 3 x 11 inches (76 x 279 mm) deep by width of window.
				4. Bolted to window frame.
			2. Sill: Mortise sill:
				1. Material: Stainless steel.
				2. Integral deal tray and natural voice transmission.
				3. Profile: 3 x 9 inches (76 x 229 mm) deep by width of window.
				4. Recessed into countertop.

\*\* NOTE TO SPECIFIER \*\* Delete tray option not required.

* + - 1. Deal Tray and Voice Panel Sill:
				1. Single deal tray with voice panels adjacent to deal tray in sill.
				2. Deal tray sized to pass items not exceeding 12-3/4 x 1-5/8 inches (324 x 41 mm).
				3. Voice panel shall include an acoustically balanced natural voice transmission system.
				4. Material: Stainless steel.
			2. Drop-in Tray: Modified non-labeled assembly with 3-sided frame:
				1. Natural voice transmission spacers.
				2. Stainless steel glass channel.
				3. Deal Tray: Model NDT, bullet resistant non-ricochet drop-in deal tray, 16-3/8 x 11 x 1-5/8 inches (416 x 279 x 41 mm).
			3. Writing Ledge: Stainless steel writing ledge:
				1. Integral to sill.
				2. Size: 6-1/2 inches (165 mm) by width of window.

\*\* NOTE TO SPECIFIER \*\* Delete ledge installation location options not required.

* + - * 1. Ledge Installation Location: Threat side.
				2. Ledge Installation Location: Non-threat side.
				3. Ledge Installation Location: Threat side and non-threat side.
			1. Glass Armor: UL 752 listed bullet resistant transparent armor.

PART 3 EXECUTION

* 1. EXAMINATION
		1. Do not begin installation until 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.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install in accordance with manufacturer's instructions, approved submittals, and UL 752, and in proper relationship with adjacent construction.
		2. Install all equipment plumb, level, rigid and in true alignment.
		3. Set equipment in accordance with the manufacturer's printed recommendations. Use proper anchoring devices for the material to be anchored to. All exposed anchor holes shall be used for anchoring.
		4. Anchor frames securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
		5. Installation tolerances: Do not exceed the following installation tolerances:
			1. Squareness: Plus or minus 1/16 inch (1.6 mm) measured on a line, 90 degrees from one jamb, at the upper corner of the frame at the other jamb.
			2. Alignment: Plus or minus 1/16 inch (1.6 mm) measured on jambs on a horizontal line parallel to the plane of the wall
			3. Twist: Plus or minus 1/16 inch (1.6 mm) measured at face corners of jambs on parallel lines perpendicular to the plane of the wall.
			4. Plumb: Plus or minus 1/16 inch (1.6 mm) measured on the jamb at the floor.
		6. Adjust installed doors for correct function and smooth operation.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
	1. CLEANING AND PROTECTION
		1. Clean products in accordance with the manufacturers recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.
		3. Protect installed products until completion of project.

END OF SECTION