**SECTION 11 1500**

**BULLET-RESISTANT Transaction Drawer**

This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by one of the following methods:

Microsoft Word 2013: Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

Microsoft Word 2010: Display the FILE tab on the ribbon, click OPTIONS, then on left menu click on DISPLAY. Under ALWAYS SHOW THESE select or deselect HIDDEN TEXT.

Corel WordPerfect: From the pull-down menus select VIEW, then select or deselect the HIDDEN TEXT option.

This master specification section has been prepared by ARMORTEX for use in the preparation of a project specification section covering bullet-resistant steel window assemblies, fixed or operable type. ARMORTEX fixed steel window assemblies are available in Ballistic Levels 1 through 8.

The following should be noted in using this specification:

Hypertext links to specific websites are included after manufacturer names and names of organizations whose standards are referenced within the text, to assist in product selection and further research. Hypertext links are contained in parenthesis and shown in blue, e.g.:

 ([www.spexplus.net](http://www.spexplus.net))

Optional text requiring a selection by the user is enclosed within brackets, e.g.: "Section [09 0000.] [\_\_\_\_\_.]"

Items requiring user input are enclosed within brackets, e.g.: "Section [\_\_\_\_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement, e.g.:

\*\*\*\* OR \*\*\*\*

Sustainable requirements are included for projects requiring LEED certification, and are included as green text. For additional information on LEED, visit the U.S. Green Building Council website at [www.usgbc.org](http://www.usgbc.org).

For assistance on the use of the products in this section, contact ARMORTEX by calling 800-880-8306, by email at info@armortex.com, or visit their website at [www.armortex.com](http://www.armortex.com).

1. **GENERAL**
	1. SUMMARY

Edit the following paragraphs to include only those items specified in this section.

* + 1. Section Includes:
			1. Bullet-resistant Sliding Transaction drawer.

Coordinate the following paragraphs with other sections in the project manual.

* + 1. Related Sections:
			1. Division 01: Administrative, procedural, and temporary work requirements.
	1. REFERENCES
		1. American Welding Society (AWS) ([www.aws.org](http://www.aws.org)) D1.3/D1.3M - Structural Welding Code - Sheet Steel.
		2. ASTM International (ASTM) ([www.astm.org](http://www.astm.org)) A1008/A1008M - Standard Specification for Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength Low-Alloy and High-Strength Low-Alloy with Improved Formability.
		3. Underwriters Laboratories (UL) [(www.ul.com](http://www.ul.com)) 752 - Bullet Resisting Equipment.
	2. SYSTEM DESCRIPTION
		1. Design Requirements: Provide drawer with “non-ricochet type" intended to permit capture and retention of attacking projectile, lessening potential of random injury or lateral penetration for levels [1,] [2,] [3,] or HI-Hard ballistic steel for protection level [4,] [5,] [6,} [7,] [8,]
	3. SUBMITTALS

Limiting submittals to only those actually required helps to minimize liability arising from the review of submittals. Minimize submittals on smaller, less complex projects.

Include the following for submission of shop drawings, product data, and samples for the Architect's review.

* + 1. Submittals for Review:
			1. Shop Drawings: Include profiles and sizes, reinforcement size and locations, details of joints and connections.
			2. Product Data: Include product description for drawer including bullet-resistant ratings.

Include the following is a powder coated finish is desired. Edit to suit project requirements.

Include the following for submission of sustainable design submittals.

* + 1. Sustainable Design Submittals:
			1. Recycled Content: Certify percentages of post-consumer and pre-consumer recycled content.
			2. Regional Materials: Indicate cost of products harvested, extracted, recovered, or manufactured within 500 mile radius of Project site.

Include the following for submission of closeout submittals on cleaning of glazing materials.

* 1. QUALITY ASSURANCE

Edit the following to suit project requirements; delete if this information is indicated on Drawings.

* + 1. Transaction Drawers: Ballistic Level [1,] [2,] [3,] [4,] [5,] [6,] [7,] [8,] to UL 752.
	1. DELIVERY, STORAGE AND HANDLING
		1. Store drawers in protected, dry area, off ground or floor.
		2. Do not cover with non vented coverings that create excessive humidity.
		3. Remove wet coverings immediately.
1. **PRODUCTS**
	1. MANUFACTURERS
		1. Contract Documents are based on Model [6003] by ARMORTEX, 5926 Corridor Parkway, Schertz, Texas, 800-880-8306, [www.armortex.com](http://www.armortex.com).

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]Edit the following to indicate whether or not substitutions will be permitted for the products in this section.

* 1. MATERIALS
		1. Steel Sheet:
			1. ASTM A1008/1008M, cold rolled, free from scale, pitting, coil breaks, and other surface defects.

Insert percent of recycled content for steel in the following paragraph; contact ARMORTEX to verify current recycled content availability.

* + - 1. Recycled content: Minimum [\_\_] percent, with minimum [\_\_] percent classified as post consumer.

Include the following for Ballistic Level 1 through 3 windows.

* + 1. Bullet-Resistant Composite: UL Listed Bullet Resistant Composite by ARMORTEX, of UL Ballistic Level equal to specified frame ballistic protection level.

Include the following for Ballistic Level 4 through 8 windows.

* + 1. Ballistic Steel: Hi-Hard Ballistic Steel, of UL Ballistic Level equal to specified ballistic protection level.
	1. FABRICATION

:

 A. Drawers

Edit the following to suit project requirements. Windows requiring Ballistic Level 1 through 3 use bullet-resistant composite cores; Ballistic Level 4 though 8 require ballistic steel cores.

* + - 1. Fabricate Case from 16 gage steel
			2. Face 16ga #3 Brushed Stainless Steel
			3. Stainless Steel mounting flange.
			4. Heavy duty drawer slides

Include the following for operable windows.

* + 1. Welding: In accordance with AWS D1.3/D1.3M. Grind exposed welds flush and smooth.
		2. Finish work neat and free from defects.
	1. FINISHES

Include the following for an optional powder coated finish.

* + 1. Stainless Steel: No. 3 brushed finish.
1. **EXECUTION**
	1. INSTALLATION
		1. Install drawer in accordance with manufacturer’s instructions and approved Shop Drawings.
		2. Set with flanges on top of counter
		3. Secure to adjacent using fastener type best suited to application.

END OF SECTION