SECTION 08 88 53

SECURTY GLAZING ANCHORING SYSTEM

Display hidden notes to specifier. (Don't know how? [Click Here](https://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* Z Secure Attachment System; security film anchoring system.
This section is based on the products of Z Secure Attachment System, which is located at:
650 E. Hwy. 121 Business Suite 311
Lewisville, TX 75057
Tel: 972-485-0100
Email: [request info (tim1@hometint.com )](https://admin.arcat.com/users.pl?action=UserEmail&company=Z+Secure+Attachment+System&coid=53276&rep=&fax=&message=RE:%20Spec%20Question%20(08880zsg):%20%20&mf=)
Web: <https://zsecurefordoors.com/> | <https://www.hometint.com/photo-gallery/commercial/commercial-safety-security-gallery/>
 [ [Click Here](https://www.arcat.com/arcatcos/cos53/arc53276.html) ] for additional information.
Z SECURE is a patented and tested attachment system for doors and limited windows used in conjunction with security window films. Glass is typically the weak point many criminals exploit in order to gain access to a building or home. Consequently, it is prudent to have a system and method which allows for increased security. If an unwanted intruder breaks the glass, this attachment will hold the security filmed glass in the frame of the door. Currently, many of the specifications issued with construction project drawings reference a bead of silicone applied to the glass stop onto the filmed surface of the glass. The security film will stay attached to the glass, but this silicone option will not hold the glass in a frame because the glass stops are just clipped in and simply pop off, and the intruder gains access.
The goal of an attachment system is to keep the glass in the frame. The only way to achieve any level of protection with a film system is to have an attachment system. If glass is compromised by an intruder and does not have a film AND attachment system in place, the glass will not stay in the frame.
Any doors with wooden stops are not designed to accept any form of film attachment system. In a wood door, the lites must be metal squeeze frames.
Z SECURE is a custom product made for each door size and style with available colors that match popular frame options including Clear Anodized, Dark Bronze, and more. Aesthetically this system is preferred over the rubberized glazing tape OR the silicone bead alternatives that DO NOT WORK to keep the filmed glass in the frame. Z SECURE is custom shaped to go over the glass stop with a minimum 1/-inch (13 mm) bite on to the frame and 90 degrees bend to glass. Another 90 degrees bend will go onto the glass surface, again with a minimum 1/2-inch (13 mm) bite. The actual metal onto the frame and glass surface will be 5/8 inch (16 mm) to allow the 1/2-inch (13 mm) VHB to be recessed from the edge. Bend and Angle Dimensions of the shape will always vary because of the custom fit of Z Secure and depending on the width and depth of the glass stop.

1. GENERAL
	1. SECTION INCLUDES

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

* + 1. Security window film anchoring system. (Z SECURE)
	1. RELATED SECTIONS

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

* + 1. Division 08 - Openings.
		2. Section 08 50 00 - Windows.
		3. Section 08 53 00 - Plastic Windows.
		4. Section 08 53 13 - Vinyl Windows.
		5. Section 08 83 13 - Mirrored Glass Glazing.
		6. Section 08 88 56 - Ballistics-Resistant Glazing.
		7. Section 08 83 13 - Mirrored Glass Glazing.
		8. Section 08 87 13 - Solar Control Film.
	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 if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern, and color.
		2. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.
			1. Manufacturer will require the following information to submit Shop Drawings:
				1. Dimensions of window openings
				2. Glazing thickness.
				3. Overall depth of window opening.
				4. Substrate material.
	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.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
			1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
			2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
			3. Retain mock-up during construction as a standard for comparison with completed work.
			4. Do not alter or remove mock-up until work is completed or removal is authorized.
	1. 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.
	2. 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.
	3. 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.
	4. WARRANTY
		1. Manufacturer's standard limited warranty unless indicated otherwise.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Z Secure Attachment System, which is located at: 650 E. Hwy. 121 Business Suite 311; Lewisville, TX 75057 ; Tel: 972-485-0100; Email: [request info (tim1@hometint.com )](https://admin.arcat.com/users.pl?action=UserEmail&company=Z+Secure+Attachment+System&coid=53276&rep=&fax=&message=RE:%20Spec%20Question%20(08880zsg):%20%20&mf=); Web: <https://zsecurefordoors.com/> | <https://www.hometint.com/photo-gallery/commercial/commercial-safety-security-gallery/>

\*\* 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. PRODUCT TYPES
		1. Basis of Design: Z SECURE Securement System as manufactured by Z Secure.
			1. Description: A securement system which withstands more blows than traditional Glass. A pane of glass with adhered security film is installed into a door or window frame opening. The security film faces the inside or opposite the "attack"side in most cases. Security film can be applied to both sides for added strength and protection. The inside leg (glass coupler) of the Z-frame profile adheres to the security film on the glass pane. The opposite outer leg (support coupler) of the Z-frame profile adheres to the side of the door or window frame opposite to the "attack" side.
			2. Window Perimeter Securement Z-Frame Brackets:
				1. Securement Frame Profile: "Z" Channel 0.040 inch ( mm) thick aluminum. Cut to fill window opening perimeter.

Corners: Mitered.

\*\* NOTE TO SPECIFIER \*\* Delete window opening options not required.

Custom color on opposite of attack side.

Window Openings: As determined by the Architect.

Window Opening: As detailed on the Drawings.

Window Opening (WxH): \_\_\_\_ x \_\_\_\_ inch (\_\_\_\_ x \_\_\_\_ mm).

Profile Overlap of Perimeter Opening (Support Coupler): 5/8 inch ( mm) minimum.

* + - * 1. Overall Inside Leg Length (Glass Coupler): \_\_\_\_ inch (\_\_\_\_ mm).
				2. Z-Frame 90 Degree Offset:

(Frame Support Width - Glass Pane and Security Film thickness)/2

Permissible Offset Range: 1/4 to 7/8 inch (6 to 22 mm)

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

* + - * 1. Finish: Clear anodized.
				2. Finish and Color: \_\_\_\_\_\_\_\_.
				3. Finish and Color: As determined by the Architect.
				4. Finish and Color: As detailed on the Drawings.
			1. Adhering System Glazing Security Film to Z-Secure: 3MTM VHBTM Tape clear 1/2 inch (13 mm) using UV Adhesive Promoter or Primer 94.
			2. Adhering System Door or Window Support Frame to Z-Secure: 3MTM VHBTM Tape clear .5/8 inch (16 mm) using UV Adhesive Promoter or Primer 94.
1. 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 in proper relationship with adjacent construction.
			1. Installation is to be performed by an authorized representative for Z-Secure.
	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 manufacturer's recommendations.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION