**SECTION 10 81 16.10 – RETRACTABLE SCREEN FOR LARGE OPENING**

1. GENERAL
	1. SECTION INCLUDES

Delete items below not required for project.

* + 1. VistaView (pull-across) (interior/exterior mount)
		2. Horizon (pull-across) (interior mount)
		3. BetterView (pull-across or pull-down) (interior/exterior mount)
	1. RELATED SECTIONS

Delete items below not required for project.

* + 1. Section 10 71 13 Exterior Sun Control Devices
	1. REFERENCES
		1. American Architectural Manufacturers Association (AAMA):
			1. AAMA 611-12 – Voluntary Specification for Anodized Architectural Aluminum (2012)
			2. AAMA 2604-05 – Voluntary Specification, Performance Requirements, and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (2005)
		2. American Iron and Steel Institute (AISI):
			1. AISI Grade 410 stainless steel screws
	2. ADMINISTRATIVE REQUIREMENTS
		1. Pre-Installation Conference:
			1. Attendance: [Architect,] [Owner,] [Construction Manager,] [General Contractor,] Specialty Contractor (Wizard Screens installer), and related trades [Carpenter,] [Door Installer,] [etc.]
			2. Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.
	3. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements
		2. Action Submittals:
			1. Shop Drawings: Product illustrations, installation, and relationship to adjacent construction.
			2. Product Data: Manufacturer’s descriptive data and product attributes for each product.
			3. Samples: [Selection samples.] [Verification samples.]
		3. Closeout Submittals:
			1. Operation & Maintenance manuals.
			2. Warranties issued by manufacturer, effective from date of purchase of [\_\_\_\_\_\_\_] [Select product.]

Warranties available at <https://www.wizardscreens.com/products>

* 1. QUALITY ASSURANCE
		1. Installer Qualifications:
			1. Completion of training for [\_\_\_\_\_\_\_] [Select product] via either:
				1. Wizard Screens Training Portal with certificate of proof; or
				2. Documented experience.
			2. Employee of an authorized dealer of Wizard Screens Solutions.
		2. Visual Mockup: [One sample-size screen.] [\_\_\_\_.]
	2. WARRANTY
		1. Manufacturer’s latest warranties for aluminum components, plastics, and coatings available at <https://www.wizardscreens.com/products>.
1. REQUIRED PRODUCT(S)
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Wizard Industries Inc., 4263 Phillips Avenue, Burnaby BC, Canada V5A 2X4; Toll Free Tel: 1-888-949-3667; Tel: 604-299-4426; E-mail: sales@wizardscreens.com; Web: <https://www.wizardscreens.com/>
		2. Contract Documents are based on products by Wizard Screen Solutions.
	2. MANUFACTURED PRODUCT COMMON CHARACTERISTICS
		1. FinishesSelf-coating screen systems voids paint finish warranty.
			1. Wet/Powder Coat:
				1. Extruded aluminum and metal cast components: Baked enamel to AAMA 2604-05, [\_\_\_\_] [custom] colour [to be selected from manufacturer’s full range of colours].
				2. Gloss Level: 35%-40% +/- factor
				3. Paint Colour: factor of delta 2
			2. Anodized:
				1. Extruded aluminum: Clear anodized, Class I to AAMA 611-12 (Exception: Extruded tracks are painted silver with baked enamel to AAMA 2604-05. This allows for fluid operation of the pull-bar.)
		2. Aluminum Extrusions
			1. Aluminum extrusion alloy: 6063 T5
		3. Screens
			1. Materials:
				1. Mesh type: Pfifer [\_\_\_\_] [To be selected from manufacturer’s full range of mesh offerings; and based on maximum size parameters.]
				2. Zipper:

 YKK 2-SLF, Coil (used with Pfifer 14x18 and tuff mesh). Colour: [BLACK]

 YKK 45-SLF, Coil (used with all other Pfifer meshes). Colour: [BLACK]

* + - 1. Colour: [\_\_\_\_] [To be selected from manufacturer’s full range of colours.]
	1. MANUFACTURED PRODUCTSDelete items below not required for project.
		1. VistaView
			1. Type: Manually Operated, Pull-across Coiling
			2. Maximum Dimensions:
				1. [SINGLE SCREENS]: 14’6” [4420mm] W x 11’ [3350mm] H
				2. [DOUBLE SCREENS]: 29’ [8840mm] W x 11’ [3350mm] H
			3. Materials:
				1. Screen (see **2.2,C**)
				2. Housing, Roll-tube, Pull-bar, Receiver, Tracks, Track recess channel (optional): Extruded aluminum.
				3. Internal retracting coil spring: Constant tension steel straight coil spring system, Anti-rust lubricant.
				4. Handles and mechanisms

 [VistaView Standard handle]: Assembled Plastic, PVC UV stabilized components (Colour: [BLACK,] [WHITE]), Galvanized steel brake adjustor.

 [VistaView Plus handle]: Alloy

* + - * 1. Housing end caps: Plastic, PVC UV stabilized. Colour: [BLACK,] [WHITE.]
				2. Assembled pull-bar end cap: Assembled components made up of PVC UV stabilized plastic (Colour: [BLACK,] [WHITE]), Polyurethane brake pad, Stainless steel spring, Tensioned galvanized steel brake rod.
				3. Seal options:

 [VistaView Standard] seal: Extruded magnets, Extruded PVC UV stabilized. Colour: [BLACK.]

 [VistaView Plus] seals:

 [SINGLE SCREEN] seal: Mohair. Colour: [BLACK.]

 [DOUBLE SCREENS] seal: Mohair, Extruded plastic PVC UV stabilized. Colour: [BLACK.]

* + - * 1. Latches

 [SINGLE SCREEN] latches: Metal cast

 [DOUBLE SCREENS] latches:

 Straight:

[VistaView Standard]: Plastic, PVC UV stabilized. Colour: [BLACK.]

[VistaView Plus]: Metal cast

 Corners: Metal cast

* + - * 1. Recessed cup (optional): Plastic, PVC UV stabilized. Colour: [BLACK,] [WHITE.]
				2. Screws and fasteners: Stainless steel AISI 410.
		1. Horizon
			1. Type: Manually operated, Pull-across coiling.
			2. Maximum Dimensions:
				1. Single: 21’6” [6550mm] W x 11’ [3350mm] H
				2. Double: 43’ [13105mm] W x 11’ [3350mm] H
			3. Materials:
				1. Screen (see **2.2,C**)
				2. Housing, Roll-tube, Pull-bar, Receiver: Extruded aluminum.
				3. Tracks: Extruded aluminum, Extruded PVC UV stabilized.
				4. Internal retracting coil spring: Constant tension steel straight coil spring system, Anti-rust lubricant.
				5. Handles and mechanisms: Metal cast, Galvanized steel internal parts
				6. Housing end caps: Plastic, PVC UV stabilized. Colour: [BLACK,] [WHITE.]
				7. Assembled pull-bar end cap: Assembled components made up of PVC UV stabilized plastic (Colour: [BLACK,] [WHITE]), Polyurethane brake pad, Stainless steel spring, Tensioned galvanized steel brake rod.
				8. Seal options:

 [SINGLE SCREEN] seal: Mohair. Colour: [BLACK.]

 [DOUBLE SCREENS] seals: Mohair, Extruded plastic PVC UV stabilized. Colour: [BLACK.]

* + - * 1. Latches

 [SINGLE SCREEN] latch: Metal cast

 [DOUBLE SCREENS] latch: Plastic, PVC UV stabilized. Colour: [BLACK.]

* + - * 1. Screws and fasteners: Stainless steel AISI 410.
		1. BetterView
			1. Type: Manually operated, Pull-across coiling or pull-down coiling.
			2. Maximum Dimensions:
				1. Pull-across: 72” [1830mm] W x 96” [2440mm] H
				2. Pull-down 72” [1830mm] W x 60” [1525mm] H
			3. Materials:
				1. Screen (see **2.2,C**)
				2. Housing, Roll-tube, Pull-bar, Receiver: Extruded aluminum.
				3. Tracks: Extruded aluminum, Extruded PVC UV stabilized (Colour: [BLACK]).
				4. Internal retracting coil spring: Constant tension steel straight coil spring system, Anti-rust lubricant.
				5. Handles (optional): Plastic nylon, Stainless steel screws.
				6. Housing & pull-bar end caps, corner joiners, end caps: Plastic, PVC UV stabilized. Colour: [BLACK,] [WHITE.]
				7. Seal: Mohair. Colour: [BLACK.]
				8. Screws: Stainless steel AISI 410.
				9. Fasteners: Dealer sourced.
1. EXECUTION
	1. INSTALLATION
		1. Install in accordance with manufacturer’s instructions and approved Shop Drawings.
	2. PROTECTION
		1. Protect installed products upon completion of project.
		2. Touch-up, repair, or replace damaged products before Substantial Completion
	3. HANDOVER
		1. Clean tracks, then spray with dry silicone.
		2. Provide owner with closeout submittals.
	4. SCHEDULES
		1. :
		2. :