**SECTION 10 71 20.10 – MOTORIZED RETRACTABLE ZIPSCREEN FOR LARGE OPENING**

1. GENERAL
	1. SECTION INCLUDES
		1. SmartScreen Motorized
	2. RELATED SECTIONS

Delete items below not required for project.

* + 1. Section 06 10 00 Rough Carpentry
		2. Section 10 71 13 Exterior Sun Control Devices
		3. Section 10 81 16 Insect 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.

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

* 1. QUALITY ASSURANCE
		1. Installer Qualifications:
			1. Completion of training for 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 full 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. Finishes

Self-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: Roll-tubes)
		1. Aluminum Extrusions
			1. Aluminum extrusion alloy: 6063 T5
		2. Screens
			1. Materials:
				1. Screen material:

 Pfifer [\_\_\_\_] [To be selected from manufacturer’s full range of mesh offerings; and based on maximum size parameters.]

 Vinyl all weather:

 Borders: Woven polyester scrim, PVC coated.

 Ultra clear: 20 gauge double-polished vinyl, PVC coating.

* + - * 1. Zippers/keder:

 8-VF, Injected plastic zipper (along tracks). Colour: [BLACK] [WHITE]

 #7, Coil zipper (along roll-tube and bottom bar). Colour: [BLACK] [WHITE]

* + - 1. Colour: [\_\_\_\_] [To be selected from manufacturer’s full range of colours.]
	1. MANUFACTURED PRODUCTS
		1. Standard
			1. Type: Retrofit, Electronically operated, Vertical function
			2. Maximum Dimensions:
				1. Mesh: 30’ [9145mm] W x 16’ [4875mm] H
				2. Vinyl: 25’ [7620mm] W x 16’ [4875mm] H
			3. Materials:
				1. Screen: (see **2.2,C**)
				2. Housing: Extruded aluminum, 8 Steel rivets.
				3. Tracks: Extruded aluminum.
				4. Idler: Galvanized steel, Plastic.
				5. Plates inside housing: Steel.
				6. Bottom bar: Extruded aluminum, Hot rolled steel (weight inside bar), Galvanized steel rivets, Seal [MOHAIR] [RUBBER], Probes (holds zippers steady) [WHITE,] [BLACK.]
				7. Screws: Stainless steel AISI 410.
				8. Fasteners: Installer sourced.
		2. Recessed:
			1. Type: Recessed, Electronically operated, Vertical function
			2. Maximum Dimensions:
				1. Mesh: 30’ [9145mm] W x 16’ [4875mm] H
				2. Vinyl: 25’ [7620mm] W x 16’ [4875mm] H
			3. Materials:
				1. Screen: (see **2.2,C**)
				2. Tracks: Extruded aluminum.
				3. Idler: Galvanized steel, Plastic.
				4. Recessed brackets: Coated steel, Galvanized steel.
				5. Bottom bar: Extruded aluminum (mill), Hot rolled steel (weight inside bar), Galvanized steel rivets, Seal [RUBBER], Probes (holds zippers steady) [WHITE,] [BLACK.]
				6. Screws: Stainless steel AISI 410.
				7. Fasteners: Installer sourced.
1. EXECUTION
	1. INSTALLATION
		1. Install in accordance with manufacturer’s instructions and approved Shop Drawings.
		2. If application is recessed:
			* 1. Install the brackets and (optionally) the recessed u-channels.
				2. During Substantial Completion phase, install the rolled screen(s) and tracks.
	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 documents.
	4. SCHEDULES
		1. :
		2. :