**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](mailto: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. :