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1. **Design Criteria:**

- a. This section includes manual, motorized roll shade and mini-blind style products and accessories.
- b. The Design Consultant shall make provisions in the design for in-wall blocking, to be provided by the general contractor, for attachment of window treatments.
- c. Design Consultant shall contact UVM project manager about which type of window treatment is preferred on a project-by-project basis.

2. **References**

- a. NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films.
- b. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.

3. **Required Submittals:**

- a. Product Data: Manufacturer’s data including instructions, recommendations, and restrictions.
- b. LEED Submittals: When the project is being considered for LEED certification, documentation of compliance with LEED materials and resources requirements will be necessary. The Design Consultant shall confirm with the UVM PM which LEED Certification is being sought and if window treatments will affect obtaining a point.
- c. Shop Drawings: Plans, elevations, sections, product details, installation details, operational clearances, and relationship to adjacent work.
- d. Verification Samples: ≥12 x 12 inches of each window treatment or a working sample and color sample(s).

4. **Products, Materials & Equipment:**

- a. Past manufacturers of roll shade products utilized at UVM include Mecho and Draper. Other manufacturers of equal or greater quality are acceptable as well.
- b. Manual Window Shades:
 - i. Basis of Design: “Mecho 5”, Mecho Shade Systems, Inc., www.mechoshade.com
 - ii. Manual Shade Operator: Geared drive with #10 beaded chain wheel with tensioner and anti-strangle safety feature.

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- iii. Shades Over 15 Pounds: Provide “Lift Assist Mechanism”, Mecho Shade Systems, Inc.
- c. Motorized Window Shades:
 - i. Basis of Design: “Electro 2”, Mecho Shade Systems, Inc., www.mechoshade.com.
 - ii. Shade Control for Motorized Shades:
 - 1. Basis of Design: “MLC Low Voltage Control System”, Mecho Shade Systems, Inc.
 - 2. Integrate: Shade control and manual switches.
 - iii. Switch Colors: Selected by Design Consultant and confirmed with UVM project manager
 - iv. Concurrent Control: Provide simultaneous control of all shades in each room on each wall.
 - v. Limit Switches: Required, field adjustable for both ends of range of travel.
- d. Window Treatments - Shade Fabrics:
 - i. Translucent shades: Select transparency appropriate to use in room.
 - ii. Blackout shades: fully opaque vinyl shade fabric (with jamb and sill tracks to maintain the blackout feature at the edges of the opening/shade).
 - iii. Colors: Selected by Design Consultant and confirmed with the UVM PM from manufacturer’s complete range of options.
 - iv. Fire Performance: Must pass or meet NFPA 701.
 - v. Anti-Microbial Characteristics: 'No Growth' per ASTM G 21 results for fungi.
- e. Shade Accessories:
 - i. Ceiling Mounted Shades: recessed pocket enclosure where specified and detailed.
 - ii. Wall Mounted Shades: manufacturer’s bracket and fascia system with end caps where the ends will be visible.
- f. Custom fabricate each window treatment for each installation location.
- g. Locate window treatment vertical edges at window jambs or glazed wall mullions.
- h. Black Out Hardware: When blacking-out of all light from window or door openings into a room is required, provide complete black out room darkening hardware assemblies including, without limitation: roller/head enclosures, jamb channels, sill channels, and light seal hem bar.

5. **Installation, Fabrication, and Construction:**

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- a. Coordinate concealed blocking and framing.
- b. Test and adjust each window treatment for optimum operation.
- c. Restore damaged finishes to eliminate evidence of repair.
- d. Additional Requirements for Motorized Shades:
 - i. Coordinate electrical rough in, wiring, and final connections.
 - ii. Field adjust limit switches.

6. **Warranties:**

- a. Manufacturers standard warranty on equipment and products
- b. Installer’s standard one-year warranty on installation and craftsmanship.