



1. Design Considerations

- .1 Provide Roller Window Shades and Roll-Down Blinds as follows:
 - .1 Sunscreen Shades 3% Open – typical to all exterior windows and glazed doors exiting on staff's decks.
 - .2 Blackout Shades: typical to interior windows of learning spaces, meeting rooms, labs, etc, that require blackout for visual presentations or experiments, as well as offices that require total privacy.
 - .3 Sunscreen and Blackout Shades combination: typical to exterior windows (installed in common housing) of the spaces that require blackout shades, as described above.
- .2 Operation
 - .1 Typical: Chain and sprocket roller shade manually operated action with infinite positioning.
 - .2 Motorized operation at rooms of special designation that require front console control, such as: large classrooms, representative videoconferencing rooms, large boardrooms, etc.

2. Roller Shade System

- .1 Factory assembled unit including: extruded aluminum housing / cassette box closed on all sides, 2 end brackets, shade tube, extruded aluminum fascia and hembar, shadecloth guide and fabric. Acceptable products:
 - .1 Teleshade by Solarfective Products Ltd., by Cascadia Design, Vancouver, B.C.
 - .2 Roller Shade Systems by SunProject of Canada Ltd
 - .3 MechoShade by MechoShade Systems Inc.,

3. Sunscreen Fabric

- .1 Dense shadecloth, suitable for clear low 'E' glazing.
- .2 Composition: Woven, vinyl coated fiberglass (64% vinyl / 36% fiberglass core yarn), halogen free, dimensionally stable, tensioned to keep the warp ends straight and minimize or eliminate weave distortion to keep the fabric flat.
- .3 Weight: min 470 g/m².
- .4 Thickness: minimum 0.48 mm.
- .5 UV Blockage: minimum 95%
- .6 Openness factor to be selected by Consultant:
 - .1 UVic Standard: 3% open.
 - .2 Special conditions may grant consideration for 5% open on North elevations shaded for early sun and 1% for exposed east and west elevations.
 - .3 Provide consistent product, colour and appearance for the entire building, irrespective of various different openness factors.
- .7 Acceptable products (alternative colours, to suit individual project, may be considered):
 - .1 Phifer - Sheerweave, Style 2703, 3% open, two-sided fabric, GreenGuard Certified. Preferred colour: P91, Oyster Pewter.
 - .2 Phifer - Sheerweave, Style 2410, 3% open, GreenGuard Certified. Preferred colours: P14 - Oyster Pearl Gray; Q21 - Beige Pearl Gray; V20 - Pearl Gray.
 - .3 MechoShade EcoVeil 3% open. Preferred colour 1563 Grey.

4. Blackout Fabric

- .1 Room darkening shade shall be 100% opaque material, 3 or 4 ply, PVC or vinyl laminated to both sides of 100% fibreglass base fabric. Washable, flame retardant treated and fade resistant.
- .2 Thickness: 0.45 mm.
- .3 Mesh Weight: 340 g/m².



- .4 Acceptable product:
 - .1 Preferred: Phifer - Sheerweave 7100 Series Blackout. Preferred colour: Q06 Bone Platinum.
 - .2 Acceptable (for budget constrains):
 - .1 Solarfective – SolarStop Blackout Fabric, 4 pl. Preferred colour: 5005 – Grey
 - .2 Duplex Solids. Preferred colour: 043 – Light Grey

5. Accessories

- .1 Bottom rail: Extruded aluminum hem-bar with integral grooves to accommodate fabric guide carrier at ends. Soft vinyl welt on bottom of bar.
- .2 Installation brackets: Concealed type as required to support assembly.