

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described herein, but not restricted to the following:
 - .1 Provide Fabric Roller Window Shades at Staff Lounge 104, Security Office 105, Dining Room 147, Office 150, Office 151, Office 152, Baggage Handlers 169, Flight Services Station 204 and FSS Lunch 206.
 - .2 Provide Dual Shade/Blackout blinds at Office 149.

1.2 SUBMITTALS

- .1 Submit duplicate samples of the specified fabric/shade cloth of each colour and texture; minimum size 200 mm x 200 mm for review.
- .2 Submit duplicate samples of housing, trim roller tube, hembar and operating hardware brackets for review.
- .3 Submit duplicate copies of operating and maintenance instructions including name and telephone number of local service company.
- .4 Submit a copy of the warranty terms and conditions; minimum five (5) years for materials and workmanship.
- .5 Shop Drawings: Include details, and attachments to other work.
 - .1 Submit shop drawings showing seams, termination points, and details of edges.
 - .2 Submit coordination drawings indicating electrical and plumbing work.

1.3 CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data for incorporation into manual specified in Sections 01 78 00 - Closeout Submittals.

1.4 ENVIRONMENTAL REQUIREMENTS

- .1 Safety: Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of insulation materials.
- .2 Follow Indoor Air Quality (IAQ) Plan requirements in accordance with Section 01 35 44, Indoor Environmental Protection.
 - .1 Work scheduling requirements must be followed for compliance.

1.5 WASTE MANAGEMENT

- .1 Contractor to verify that packaging for insulation is collected and sorted for recycling.
- .2 Contractor to take care with the installation of the batt insulation, use full pieces where possible, cut areas that cannot be re-used to be kept clean and saved for recycling.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Do not deliver to site until areas to receive shades are completely finished, all walls and ceilings completed and painted.
- .2 Deliver materials in original protective wrappings or containers, with manufacturer's labels.
- .3 Handle and store materials according to manufacturer's recommendations, protecting materials and finishes from damages, marring of finishes or soiling.

PART 2 - PRODUCTS

2.1 MATERIALS – BLACK-OUT BLINDS

- .1 Window Blinds, Manual operation, Dual shade Black-out & Solar Shade:
 - .1 Headrail tube: 6063-T6 extruded aluminum.
 - .2 Headrail construction: with ribs for construction rigidity.
 - .3 All parts: 6.6 polyamid, delrin, powder coated steel, or aluminum.
 - .4 Mounting: inside window frame.
 - .5 Chain Operator: 38 mm or 44 mm (1 ½ or 1 ¾) clutch and idler sets.
 - .6 Chain: nickel plated steel or stainless steel bead chain, connector and hold down.
 - .7 Weight Bar: clear anodized aluminum.
 - .8 Fascia: 100 mm (4") one piece clear anodized aluminum finish
 - .9 Fabrics:
 - .1 Fabric to meet Class A Fire Retardant Classification.
 - .2 Retain its shape, not affected by moisture or heat
 - .3 Side and Bottom Channels to eliminate light gap: clear anodized aluminum.
 - .4 Sunscreen: selected by Consultant from roller shade manufacturer's standard range.
 - .1 PVC coated fiberglass.
 - .2 Openness: 3%
 - .3 Selected from standard range by Consultant.
 - .5 Blackout: selected from standard range by Consultant.
 - .10 Standard of Acceptance: Light Harvesting Shading Solutions System 170 Dual Roller Shade, or approved alternate.
 - .11 Approved Alternate Manufacturers:
 - .1 Solarfective Products
 - .2 SunProject Moduline
 - .3 InteriorVisions
- .2 Sun control roller shade, manual operation:
 - .1 Chain operated with built in clutch.
 - .2 Headrail tube: 6063-T6 extruded aluminum with wall thickness of 1.2 mm.
 - .3 Headrail construction: with ribs for construction rigidity and prevent deflection.
 - .4 All parts: Delrin, powder coated steel, or zinc plated.
 - .5 Mounting: inside window frame with appropriate size bracket set.
 - .6 Spring loaded idler endcap for quick install or removal of shade.
 - .7 Chain: nickel plated steel or stainless steel bead chain, connector and hold down clips.
 - .8 Weight Bar: clear anodized aluminum, internal welded in.

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- .9 Fascia: 100 mm one piece clear anodized aluminum finish
 - .10 Fabric:
 - .1 Sunscreen: selected by Consultant from roller shade manufacturer's standard range.
 - .2 Fabric to meet Class A Fire Retardant Classification.
 - .3 Retain its shape, not affected by moisture or heat
 - .4 PVC coated fiberglass.
 - .5 Openness: 3%
 - .11 Standard of Acceptance: Light Harvesting Shading Solutions System LHSS 150, or approved alternate.
 - .12 Approved Alternate Manufacturer:
 - .1 Solarfective Products, Teleshade
 - .2 SunProject, Moduline
 - .3 Interior Visions Inc.
 - .4 Urban Shade

PART 3 - EXECUTION

3.1 INSPECTION / PREPARATION

- .1 Verify that all blocking and framing necessary to carry shade assembly hardware is a proper installation and secure.
- .2 Notify Consultant in writing of any deficiencies in the work of other trades that would affect the window treatment system.
- .3 Make accurate site measurements before fabrication. Check/confirm layout of glazing framing sections, spans, and loading capabilities.

3.2 INSTALLATION

- .1 Supplier shall provide information and templates required for installation of work of this section and assist or supervise, or both, the setting of anchorage devices and construction of other work incorporated with products specified in this Section in order that they function as intended.
- .2 Install work to meet manufacturer's recommended specifications, true, tightly fitted and level or flush to adjacent surfaces, as suitable for installation.

3.3 ADJUSTMENT AND CLEANING

- .1 Verify under Work of this Section that installed products function properly and adjust them accordingly to ensure satisfactory operation.
- .2 Refinish damaged or defective work so that no variation in surface appearance is discernible. Refinish work as site only if approved.
- .3 Adjust shades and operating components as required to ensure smooth and trouble-free operation without binding.
- .4 Adjust shade and shadecloth to hang flat without buckling or distortion.

.5 Clean shades and exposed components.

END

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described herein, but not restricted to the following:
 - .1 Provide Floor Mats and Frame Assemblies as indicated on drawings.

1.2 REFERENCES

- .1 The standards listed form part of this Specification to the extent of reference. The publications are in the text by the basic designation only.
- .2 American Society for Testing and Materials International (ASTM):
 - 1. ASTM D2047-11, Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces
 - 2. ASTM E648-14c, Standard Test Method for Critical Radiant Flux: Class 1

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, MSDS sheets, specifications and data sheets in accordance with Section 01 33 00 Submittal Procedures.
 - .2 Manufacturer's Information:
 - .1 Submit manufacturer's installation instructions.
 - .2 Maintenance data in the form of manufacturer's printed instructions for cleaning and maintaining floor mats.
- .2 Samples:
 - .1 Submit sample of floor mat materials.
- .3 Shop Drawings:
 - .1 Shop drawings in sufficient detail showing layout of mat and frame specified including details indicating construction relative to materials, direction of traffic, divider locations, profiles, anchors and accessories.

1.4 ENVIRONMENTAL REQUIREMENTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of materials.

1.5 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 Deliver and store materials in compliance with Section 01 61 00 Common Product Requirements.

- .2 Comply with manufacturer's recommendations for handling, storage and protection during installation.
- .3 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .4 Label packages to include material name, production date and/or product code.

1.6 QUALITY ASSURANCE/QUALITY CONTROL

- .1 Flammability in accordance with ASTM E648, Class 1, Critical Radiant Flux, minimum 0.45watts/m2.
- .2 Slip resistance in accordance with ASTM D2047, Coefficient of Friction, minimum 0.42 wet for accessible routes.
- .3 Standard rolling load performance is 350 lb./wheel with larger loading requirements as specified (load applied to a solid 127mm x 51 mm wide Polyurethane wheel, 1000 passes without damage).
- .4 Single Source Responsibility: Obtain floor mats and frames from one (1) source of a single manufacturer.
- .5 Utilize superior structural aluminum alloy 6063-T6 for rail connectors.

1.7 EXTENDED WARRANTY

- .1 Provide manufacturers 2-year warranty on Entrance Mat System.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Vinyl Grid Mat (**MAT2**):
 - .1 Standard of Acceptance: Edgewood Matting Design Links by 3M Matting Products or approved alternate.
 - .2 Face Style: Embossed
 - .3 Size: 12 mm thick x 295 mm x 447 mm panels (½" thick x 11 5/8" x 17 5/8")
 - .4 Removable panels for cleaning.
 - .5 Durable, easy to clean, vinyl, 30% recycled material.
 - .6 Low profile for wheelchair and accessible use.
 - .7 Maintenance: vacuum and dry mop, removable mats for heavy duty or seasonal cleaning.
 - .8 Coordinate recess into concrete slab.
 - .1 Equally space dividers.
 - .2 Coordinate around floor grilles where required.
 - .9 Approved Alternate Product: Go Resilient Floor Mat: Gateway 10: Extruded PVC Grid, grey color

- .10 Installed dimensions as shown on drawings.

- .2 Vinyl grid mat with carpet strip (**MAT1**):
 - .1 Standard of Acceptance: Edgewood Matting Debris Trap Everest or approved alternate.
 - .2 Approved Alternate Product: Go Resilient Floor Mat: Gateway Plus: Extruded PVC Grid, grey color
 - .3 122cm (4') widths, ½ thickness, 10m roll length
 - .4 Installed dimensions as shown on drawings.

- .3 Floor Grilles
 - .1 Standard of Acceptance: Edgewood Matting Stainless Steel BaseGrille SS-800
 - .2 3/8" thickness stainless steel grille
 - .3 Installed dimensions as shown on drawings.

2.2 ACCESSORIES

- .1 Heavy duty aluminum mat dividers and perimeter frame extrusions:
 - .1 Mill finish as recommended by Manufacturer.
 - .2 Extruded Aluminum AA6063-T5 alloy with clear anodized finish, c/w countersunk holes for flush installation of 6 mm (¼") tapcons.
 - .3 Aluminum U shape divider: 19 mm (¾") wide x 11 mm (.45") high, thickness extrusion 3 mm (0.120").

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Field measurements: Check actual openings for mats by accurate field measurements before fabrication. Record actual measurements on final shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of Work.
- .2 For recess application coordinate frame installation with concrete construction to ensure recess and frame anchorage are accurate and that the base is level and flat. Defer frame installation until building enclosure is complete and related interior finish Work is in progress. Coordinate slab depression as required.

3.2 INSTALLATION

- .1 Install the Work of this section in strict accordance with the manufacturer's recommendations.
- .2 Set mat at height recommended by manufacturer for most effective cleaning action.
- .3 Coordinate top of mat surface with bottom of doors that swing across to provide ample clearance between door and mat.

3.3 PROTECTION AFTER WORK COMPLETED

- .1 After completing required frame installation and concrete Work, provide temporary filler of plywood or fiberboard in recess, and cover frames with plywood protective flooring. Maintain protection until construction traffic has ended and project is near time of substantial completion.
- .2 Defer installation of floor mats until time of substantial completion of project.

END