

1 General

1.1 SECTION INCLUDES

- .1 Manual, chain-operated, horizontal window roller shades.

1.2 RELATED SECTIONS

- .1 Section 05 41 00 - Wind-Load Bearing Metal Stud Framing.
- .2 Section 09 22 16 - Non-structural Metal Stud Framing

1.3 SUBMITTALS

- .1 Section 01 33 00: Submittal Procedures.
- .2 Product Data: Provide manufacturer's data sheets describing components, accessories, dimensions, tolerances for window openings required, colours and textures.
- .3 Shop Drawings: Indicate dimensions in relation to window jambs, operator details, top rail, conditions between adjacent blinds, anchorage details, hardware and accessories details, electrical operating mechanisms, connections and required clearances.
- .4 Samples: Submit two (2) set of 300 mm long samples of each visible-to-view component, indicating colour, surface texture and sheen.

1.4 WARRANTY

- .1 Five (5) years against any defects in blind assembly products.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Construction Waste Management and Disposal.
- .2 Remove from site and dispose of packing materials at appropriate recycling facilities.
- .3 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.

2 Products

2.1 MANUFACTURERS

- .1 Altex.
- .2 Substitutions: Refer to Section 01 62 00.

2.2 SPRING ASSISTED CHAIN ROLLER SHADE

- .1 Adjustment-free system. The clutch portion shall be comprised of multi-banded steel rings that create the pressure necessary to keep the shade in desired position. Springs shall be 180° oriented one versus the other to provide a smooth operation. All external components to be made of glass reinforced nylon. Mechanism shall be symmetrical allowing it to be located at the right or the left of the fabric.
- .2 Chain: Controlled by stainless steel bead chain.
- .3 End plug: End plug consisting of plastic housing and spring assisted components.
- .4 Brackets: Brackets to be inserted in slit on top of the cassette. Hooks must not be apparent on the front part of the cassette. Brackets to allow for ceiling (inside or outside the window frame) and wall mount.
- .5 Tube and shade attachment: Extruded aluminum tube, alloy 6063-T5, 38 mm diameter to support shade fabric without excessive deflection. Adhesive tape attaches the fabric to the tube.
- .6 Bottom bar: Clear anodized, extruded aluminum alloy 6063-T5, oval shaped hem bar, 15mm deep x

- 28 mm, end cap colours to match bottom bar, weighted appropriately for shade to hang flat, attached to the fabric by a plastic spline.
- .7 Cassette: Closed system made of extruded aluminium alloy/hardness 6063-T5, clear anodized, 99 mm high x 90 mm deep, hides mechanism and the roller protectign the fabric and the mechanism from dust, totally assembled unit. Covers made of acetal plastic to match cassette facade. Detachable facade allowing access to the roller without removing complete system. Bristles at cassette opening help clean the fabric every time the shade is used.
 - .8 Fabric:
 - .1 Solar Shade: Translucent fabric, plain weave, glass fabric with PVC coating, 5% openness factor.
 - .2 Blackout Blinds: 4-ply laminated fiberglass
 - .9 Acceptable Product: Altex Spring-assisted chain roller shade with Avantek AV1 cassette.

3 Execution

3.1 EXAMINATION

- .1 Examine substrate and conditions for installation.
- .2 Beginning of installation means acceptance of substrate and project conditions.
- .3 Verify site dimensions prior to manufacture of roller shades.

3.2 INSTALLATION

- .1 Install units and their accessories to manufacturer's instructions.
- .2 Securely screw end plugs to conceal exposed cut aluminum of exterior hem bar.
- .3 Securely anchor units plumb and level, using hardware and accessories to provide smooth operation without binding.

3.3 ADJUSTING

- .1 Adjust units for smooth operation.
- .2 Adjust shade and shade cloth to hang flat without waves, folds, or distortion.
- .3 Replace any units or components which do not hang properly or operate smoothly.

3.4 CLEANING

- .1 Touch up damaged finishes and repair minor damage in a manner to eliminate evidence of repair. Remove and replace work that cannot be satisfactorily repaired.
- .2 Clean exposed surfaces and edges/ends, including metal and shade cloth, using non-abrasive materials and methods recommended by manufacturer. Remove and replace work which cannot be satisfactorily cleaned.

3.5 DEMONSTRATION

- .1 Demonstrate operation method and instruct Owner's personnel in the proper operation and maintenance of the window shade assembly.

End of Section

1 General

1.1 SECTION INCLUDES

- .1 Floor grilles and frame assemblies.

1.2 RELATED SECTIONS

- .1 Section 03 33 00 - Cast-in-Place Concrete: Floor depression formed with frame.
- .2 Section 09 30 13 - Ceramic Tiling.

1.3 SUBMITTALS

- .1 Section 01 33 00: Submittal Procedures.
- .2 Product Data: Provide data indicating floor grille characteristics, component dimensions, recessed frame and details and method of assembly.

1.4 MAINTENANCE DATA

- .1 Section 01 78 10 - Closeout Submittals: Submission procedures.
- .2 Provide maintenance data for inclusion in Operations and Maintenance Manual. Include cleaning instructions, and stain removal procedures.

1.5 FIELD MEASUREMENTS

- .1 Verify that field measurements are as indicated on shop drawings.

1.6 WASTE MANAGEMENT AND DISPOSAL

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- .2 Remove from site and dispose of packing materials at appropriate recycling facilities.
- .3 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan.

2 Products

2.1 MATERIALS

- .1 Aluminum - ASTM B221, alloy 6061-T6.

2.2 COMPONENTS

- .1 Recessed Foot Grille:
 - .1 25mm x 38mm Tread Bars, joined with 9.5mm diameter threaded steel rods with nylon spacers.
 - .2 Size: as indicated on drawings.
 - .3 Frame: Recessed for level installation. Overall depth 57mm with 3mm profile
- .2 Acceptable product: KNC Kenag grille Recessed Floor Grille type FG-5 in type GB frame.

2.3 FABRICATION

- .1 Construct recessed frames square, tight joints at corners, rigid. Coat surfaces with protective coating where in contact with cementitious materials.
- .2 Fabricate foot grilles in single unit sizes.

3 Execution

3.1 EXAMINATION

- .1 Verify that floor openings for foot grilles are ready to receive work.

3.2 PREPARATION

- .1 Verify size of floor recess before fabricating foot grilles.
- .2 Vacuum clean floor recess.

3.3 INSTALLATION

- .1 Install frames to achieve flush plane with finished floor surface.
- .2 Install foot grilles in floor recess flush with finish floor after cleaning of finish flooring.

3.4 INSTALLATION TOLERANCES

- .1 Maximum Gap Formed at Recessed Frame From Foot Grille Size: 6 mm.

End of Section

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