

1 General

1.1 RELATED SECTIONS

- .1 Section 09 22 16 - Non-structural Metal Framing.

1.2 REFERENCES

- .1 Aluminum Association Designation for Aluminum Finishes 1997.
- .2 American Society for Testing and Materials (ASTM)
 - .1 ASTM D 1784-99, Specification for Rigid Poly (Vinyl Chloride) (PVC) Compounds and Chlorinated Poly (Vinyl Chloride) (CPVC) Compounds.

1.3 DESIGN REQUIREMENTS

- .1 Design vertical louver blinds to following requirements:
 - .1 Be designed in a manner that allows wear susceptible parts to be replaceable by either the user or the manufacturer.
 - .2 A guarantee of at least five-years of available replacement parts following discontinue of the products manufacture.
 - .3 Be accompanied by instructions for replacing or repairing worn parts, including inventory numbers for parts and procedures for ordering replacement parts.
 - .4 A program that allows for the refurbishing or return of used vertical louver blinds.

1.4 SHOP DRAWINGS

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate dimensions in relation to window jambs, operator details, top and bottom rail, conditions between adjacent blinds anchorage details, hardware and accessories details, connections and required clearances.

1.5 SAMPLES

- .1 Submit one representative working sample of each type vertical louver blind in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit sample of manufacturer's standard colors, patterns and textures of specified vane and rail materials for selection by Consultant.

1.6 CLOSEOUT SUBMITTALS

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

1.7 WARRANTY

- .1 Lifetime warranty against defect in materials and workmanship for track.

1.8 WASTE MANAGEMENT AND DISPOSAL

- .1 Collect and separate for disposal waste material generated by this Section.
- .2 Place in appropriate on-site bins in accordance with Waste Management Plan.
- .3 A clean worksite is mandatory at all times.

2 Products

2.1 MATERIALS

- .1 Louvers: 90mm p.v.c. (lead free).
 - .2 Top Rail: Traversing and rotating
 - .3 Stack: draw left or right and center opening.
 - .4 Traversing: blind shall traverse by means of D-20 polyester cord which is stretch resistant, non-fraying and lint free. Cord will guide over pulley wheels to minimize wear
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- and provide quick traverse to any position.
- .5 Rotation: 180 degrees rotation of louvers actuated by #10 nickel plated chain cradled in control sprocket and in turn rotate worm gear to fit louver at perfect angle to provide light control.
 - .6 Channel: Extruded aluminum alloy 6063-T5, 44mm wide. Complete with mounting brackets for wall or ceiling mount installation, as detailed on drawings.
 - .7 Controls: Moulded acetal plastic, Delrin control with have plastic cover and screws to protect mechanism from damage or dust, pulley wheels at both control and idler end will provide smooth cord movement during traversing, reduction, gear mechanism will adjust at 4:1 ratio tilting of louvers with easy rotation of control chain.
 - .8 Carrier: moulded acetal plastic, Derlin. Carrier will have 2 independent self lubricating wheels to provide easy traversing. Sunromatic worm gear in each carrier will self align for uniform rotation. Shaft will remain in position until reset by control. Replaceable shaft in each carrier can be repaired if accidentally damaged.
 - .9 Spacing: Available in 90mm lubricated plastic link will pass smoothly between guide slots in carrier to provide quiet opening and closing. Blind will also be visually equal spaced with special links to minimize unsightly overlap of vanes.
 - .10 Lengths: At exterior windows blinds are to extend to within 6mm of top of finished sill.
 - .11 Colour: to be selected by Consultant.

2.2 OPERATION

- .1 Traversing: to operate left to right.
 - .1 Manual operation: control opening and closing of blind with nylon cord, tensioned by cord weight and without binding vanes at any angle.
- .2 Fabricate vanes to completely fill openings indicated, from top to bottom and jamb to jamb.
- .3 Tension vanes taut between head and sill rails.
- .4 Locate rotation control chain and traversing cord on left hand side of window.

2.3 QUANTITIES

- .1 Provide at all windows on _____.

3 Execution

3.1 INSTALLATION

- .1 Install bracket mounted vertical louver blinds in accordance with manufacturer's instructions.
- .2 Secure top and bottom rails. Use non corrosive metal fasteners for installation, concealed in final assembly.
- .3 Install blinds square, plumb, true to line with operable parts adjusted for correct function.

END OF SECTION
