

## SECTION 12 21 16 – VERTICAL LOUVER BLINDS

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### GENERAL:

Surface burning characteristics: Provide blinds tested per NFPA 701, Small Scale Vertical Burn Test and listed for rating indicated by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.

### SUBMITTALS:

Product data for each type of vertical louver blind. Samples of each color vane required.

### PRODUCTS:

#### VERTICAL LOUVER BLINDS

##### VB-1

Vertical louver blinds shall be "Decomatic" heavy duty vertical system as manufactured by Benthin USA or approved equal as follows:

Vane Material shall be PVC with concave shape as selected by Architect from manufacturer's full range of materials. Minimum nominal thickness of 0.027".

Vane Color Typical University color is white.

Nominal Vane Width shall be 3-1/2 inches.

Headrail shall be extruded aluminum 6063-T5 alloy, 1" high x 1.5" wide with wall thickness not less than 0.045" and with a clear anodized finish. The tilt rod shall be made of extruded aluminum alloy 6063-T5, 1/4" diameter with a single groove. The headrail shall come with a lifetime warranty.

Carriers shall be made of self-lubricating plastic such as "Celcon" and shall have a geared clutch system for overload protection and a steel clutch spring to reinforce positive action. They shall be equipped with a stabilizer bar designed to fit into the extruded slot in the aluminum headrail to provide smooth traversing along the width of the headrail. The carriers shall provide the louvers with 185-degree rotation capability to provide full louver closure and shall stay in position unless reset to insure uniform appearance.

Spacer Links shall be made of flexible, corrosion proof, stainless steel, and shall be locked between carriers to insure smooth traversing. Spacing shall be equal for all louver widths.

All tracks shall be equipped with completely covered end caps, concealing internal parts for a custom, finished appearance. End caps shall be molded of "Celcon" plastic.

Vane hooks shall be of clear, high ultra-violet resistant polycarbonate. Vane hooks shall be field replaceable while headrail is installed.

Tilting control: The rotation chain shall be made of metal beaded chain. One full cycle of the control chain (13 1/2") shall self-align the vanes.

Traversing control shall consist of traversing cord loop traveling along smooth surfaces and silently around plastic pulleys on steel axles.

Cord weight shall be readily removable without detaching cord from headrail.

Installation brackets for overhead installations shall consist of spring tempered steel with a front flange and rear tab to positively engage rails at top of headrail. Provide a minimum of two fasteners per bracket and not less than the manufacturer's recommendation.

Vanes shall stack one way draw. Track shall have a stack release lever to allow vanes to be moved aside for easy window cleaning. Light gap shall be no greater than 0.25" at control chain with a minimum vane overlap of 0.375".

Blind Unit Size When Installed Between (Inside) Jambs: Width and length equal to 1/2 inch less than opening.

Blind Unit Size When Installed Outside Jambs: Width and length as indicated, with terminations between blinds of end-to-end installations at centerlines of mullion or other defined vertical separations between openings.

## INSTALLATION

Complete all finishing operations, including painting, before beginning installation. Install blinds level and plumb, and located not closer than 1" (25 mm) to interior face of glass lites.

Isolate metal parts from concrete or mortar to prevent galvanic action. Use tape or another method recommended by manufacturer.

END OF SECTION 12 21 16