

BASE SPECIFICATION GUIDE CONTRACT 2220 MEDIUM DUTY VERTICAL TRACK

PART I - GENERAL

1.01 REQUIREMENTS

- A. Provide and install **Signature Series Blinds** manufactured by **CACO, Inc.** in agreement with all specifications, drawings and contract correspondence.
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1.02 SUBMITTALS

- A. Provide manufacturer's product data and installation information per type of blind specified.
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PART II - PRODUCTS

2.01 HORIZONTAL BLINDS

- A. **CACO, Inc.** custom **Signature Series Contract 2220** vertical blinds.

B. Materials

1. **Signature Series Contract 2220** head channel: Head channel shall be a one-piece extruded aluminum alloy with a white powder coated paint finish. Wall thickness shall be .032 (\pm .006). Channel dimensions shall be 1 15/16-inch wide by 1 5/16-inch high.
2. **Traversing mechanism:** Vertical louver traversing shall be available in either one-way or two-way draw. Louvers shall be traversed by means of a lead carrier activated by a cord and freewheeling pulley system. Cord design consists of a reinforced fiberglass core coated in plastic with a polyester jacket.
 - a. Optional All-In-One wand control is available for operation of both the traversing and rotation of louvers. This system is activated when the aluminum control wand is drawn the length of the channel to traverse louvers or wand is twisted circularly to rotate louvers.
3. **Rotation mechanism:** A polyester cord and plastic bead chain activates a planetary gear system. An extruded aluminum pinion rod spanning from the drive-end to the idle-end turns upon the chain being drawn, transferring the rotation force from the gear assembly to each carrier. A Celon®, acetyl plastic rack and spur gear moves each carrier simultaneously, synchronizing and actuating all louvers to turn a full 180° rotation. The gears provide an 8 to 1 mechanical advantage and keep louvers fixed.
 - a. An optional #10 nickel-plated bead chain is available in lieu of plastic bead chain.
4. **Standard carriers:** Each carrier will be 1 3/4 -inch wide and traverse on Duracon plastic wheels to reduce draw force. Each carrier has a detachable replaceable acetyl plastic stem centered in the head channel to secure the louver.
 - a. Optional Auto-Rotate is available for standard carriers. Auto-Rotate is a preventative mechanism that automatically rotates vanes to the open position when vanes are traversed in the closed position. This system averts potential carrier damage from jamming.
5. **Louver spacing:** Available in 3 1/2-inches only. A flexible acetyl scissor system shall space and stabilize each carrier by passing smoothly between special stabilized guides. In the closed position, louvers will overlap approximately 3/8-inch. The scissor system is designed to equally space louvers and minimize the draw force required to traverse the louvers. Louver spacing begins across all louvers once the traverse mechanism is activated.
6. **Louvers:** Louvers will rotate 180° and when traversed will stack into approximately 7/16-inch per louver. Overlap for 3 1/2-inch louver widths is approximately 3/8-inch. Louvers shall be nominally 3 1/2 -inch in width. Materials available will include fabric (both fire resistant and non fire-resistant), aluminum, vinyl (PVC, poly-vinyl chloride) and channel panel (PVC) with a clear edged groove (which allows for a fabric vane to be inserted).
 - a. Fabric Louvers; Fabric louvers shall be sewn on three sides at the bottom with clear monofilament nylon thread for inserting a louver weight. An optional chain and clip shall be available for connecting to each adjacent louver weight. When a fabric is F.R., a certificate of flame resistance is available from the manufacturer.
 - b. Aluminum louvers are composed of virgin aluminum alloy for maximum strength, flexibility and resistance to corrosive elements. Before painting, aluminum louvers shall have a pre-coated treatment to adhere and bond baked polyester enamel. Slat thickness before paint is .0096 (\pm .0003).
 - c. Standard 3 1/2 -inch width curved vinyl (PVC) louvers shall be composed of virgin Geon pellets, extruded to a gauge of .030 (\pm .0003), beaded on each side to no less than .050-inch.
 - d. Channel panel (PVC), 3 1/2-inch in width louvers shall be formed of virgin Geon pellets extruded to a gauge of .030 (\pm .0003), with a 1/4 -inch clear edge groove on each side which permits a fabric vane to be inserted.
 - e. Valance with integral dust cover shall be made of a composite poly-vinyl chloride (PVC), extruded to a gauge of .032 (\pm .0002), with a 1/4 -inch clear plastic groove on each side, which permits a fabric, aluminum or PVC vane to be inserted. Returns are provided for outside installations and are available upon request for inside installations. For outside installations plastic mounting clips are provided.
7. **Installation brackets:** Heat treated, zinc plated steel brackets are designed to facilitate installation and removal of the head channel. All necessary hardware shall be included to secure attachment of brackets to adjoining construction and head channels. The brackets are designed to support the weight of the vertical blind plus the forces necessary to operate them.
8. **Packaging:** Corrugated 44 ECT cardboard packaging consists of 100% recycled material that is also 100% recyclable (a letter of compliance is on file for LEED qualifying projects).
9. **Product warranty:** **Signature Series/ Contract 2220** shall be manufactured exempt of any sharp edges, burrs or other defects. **CACO, Inc** will extend a limited lifetime warranty on head channel and a 3 year limited warranty on vertical vanes for every vertical blind that is properly installed is guaranteed to be free from defective components for the warranty duration, as long as the blind remain in the same window as originally installed. This obligation is limited to repair and replacement of components found defective. This guarantee does not include any conditions resulting from damages caused by accidents, alterations, misuse, abuse, or failure to follow instructions with respect to cleaning or maintenance.

10. Size limitations:

- a. Maximum width: 156-inches
- b. Maximum length: 120-inches

11. Size limitations for All-in-one control

145 1/2" x 60", 120" x 84", 133" x 72", 102" x 96"

2.02 FABRICATION

- A. Prior to fabrication, verify actual opening sizes by measuring on site. Calculate blind dimensions to fit within specified tolerances.
 - B. Fabricate blinds to fill opening from top of window to sill and jamb to jamb. The minimum clearance blind to blind shall be 1/4-inch. Locate blind divisions at mullions.
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PART III - EXECUTION

3.01 INSPECTION

- A. Work area in which blinds will be installed should be free of conditions that interfere with blind installations and operations. Begin blind installation only when unsatisfactory conditions have been corrected.
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3.02 INSTALLATION

- A. Install blinds in accordance with manufacture's installation procedures except as otherwise specified.
 - B. Install intermediate support brackets and extension brackets as needed to prevent deflection in head rail.
 - C. Install blinds with adequate clearance to permit smooth operation of blinds and any sash operations. Hold blinds 1/4-inch clear from each side of window openings on inside mount unless other clearance is indicated.
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3.03 CLEANING

- A. Clean Louver fabrics by periodically vacuuming, dusting with a soft brush or wiping with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent based cleaners.
 - B. Clean PVC surfaces with a mild soap solution. Do not use steam, hot water, bleach or any abrasive or solvent based cleaners.
 - C. To ensure proper drying, provide adequate ventilation.
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3.04 VERTICAL BLIND SCHEDULE

- A. Provide blinds at the following locations: Listing blind locations, different options, types, accessories and colors.



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