



**ALUMAVIEW™**  
OPTIMA

#### ACCEPTABLE MANUFACTURER

Sectional doors shall be AlumaView OPTIMA as manufactured by Raynor of Dixon, Illinois.

#### OPERATION

Operation shall be manual, motor or hand chain as specified.

#### SECTIONS

- A. Material: Sections shall be 2" (51mm) thick, comprised of 6036-T6 aluminum alloy stiles and rails joined together with 5/16" (7.9mm) galvanized through-bolts. Aluminum panels .050" (1.3mm) thick shall fill the spaces between the stiles and rails and held in place by vinyl snap-in beads and factory glazing where specified. The combined dimension of the two adjoining intermediate meeting rails shall be 3 3/16" (96.84mm). End stiles shall be either 3 3/8" (85.73mm) wide or 6 1/4" (158.7mm) wide as determined by overall door width. Center stiles shall be 3 5/8" (92.1mm) wide. Bottom rail height to be 5 1/4" (133.35mm).
- B. Mounting: Sections shall be mounted in door opening using (select from list below):
1. Lap Jamb Angle Mounting: as normally-provided, section shall overlap the door jambs by 1" (25mm) on each side of the door opening.
  2. Between-Jamb Bracket Mounting: as optionally-provided, sections shall be mounted between the door jambs, and seal against exterior perimeter seal installed along the vertical and top horizontal edges of the door.
- C. Seals: Bottom of door to have flexible U-shaped vinyl seal retained in the bottom aluminum rail of the door.
- D. Trussing: Doors shall be designed to withstand windloads of 20 lbs. per sq. ft. (58.6 kg/sq.m.). Deflection of door in horizontal position to be maximum of 1/120<sup>th</sup> of door width. (Note: doors wider than 14'-2" (4318mm) may require reinforcing trusses that span across windows.)
- E. Color: All frame extrusions and filler panels shall be finish coated with (select from list below):
1. Clear Anodized: as normally-provided with a clear satin anodized finish to meet 204-R1 specifications.
  2. Bronze Anodized #311: as optionally-provided, finish to meet 204-R1 specifications.
  3. Bronze Anodized #312: as optionally-provided, finish to meet 204-R1 specifications.
  4. Bronze Anodized #313: as optionally-provided, finish to meet 204-R1 specifications.
  5. Bronze Anodized #314: as optionally-provided, finish to meet 204-R1 specifications.
  6. Black Anodized: as optionally-provided, finish to meet 204-R1 specifications.
  7. ArmorBrite® Powdercoat: as optionally-provided, as selected from manufacturer's selection of 187 colors.
- F. Windows: Sections may be furnished with windows in any panel location in lieu of .050" (1.3mm) aluminum filler panels. Quantity and location(s) of windows shall be per door elevation drawings (delete this section if not applicable).
- G. Glass Glazing: Windows may be furnished with either non-insulated or insulated glass (select from list below or delete this section if not applicable). (Specify color for tinted glass.)
1. 1/8" (3.2mm) Clear Glass: as normally provided, consisting of one (1) pane of 1/8" (3.2mm) DSB non-insulated glass.
  2. 3/16" (4.8mm) Clear Glass: as optionally provided, consisting of one (1) pane of 3/16" (4.8mm) non-insulated glass.
  3. 1/4" (6.4mm) Clear Glass: as optionally provided, consisting of one (1) pane of 1/4" (6.4mm) non-insulated glass.
  4. 1/8" (3.2mm) Clear Tempered Glass: as optionally provided, consisting of one (1) pane of 1/8" (3.2mm) non-insulated glass.
  5. 1/4" (6.4mm) Clear Tempered Glass: as optionally provided, consisting of one (1) pane of 1/4" (6.4mm) non-insulated glass.
  6. 3/16" (4.88mm) Clear Tempered Glass: as optionally provided, consisting of one (1) pane of 3/16" (4.88mm) non-insulated glass.
  7. 1/4" (6.4mm) Clear Laminated Glass: as optionally provided, consisting of one (1) pane of 1/4" (6.4mm) non-insulated glass.
  8. 1/4" (6.4mm) Clear Wire Glass: as optionally provided, consisting of one (1) pane of 1/4" (6.4mm) non-insulated glass.
  9. 1/8" (3.2mm) Tinted Glass: as optionally provided, consisting of one (1) pane of 1/8" (3.2mm) non-insulated glass.
  10. 1/4" (6.4mm) Tinted Glass: as optionally provided, consisting of one (1) pane of 1/4" (6.4mm) non-insulated glass.
  11. 1/8" (3.2mm) Tinted Tempered Glass: as optionally provided, consisting of one (1) pane of 1/8" (3.2mm) non-insulated glass.
  12. 1/4" (6.4mm) Tinted Tempered Glass: as optionally provided, consisting of one (1) pane of 1/4" (6.4mm) non-insulated glass.
  13. 7/16" (11.2mm) Insulated Clear Glass: as optionally provided, consisting of two (2) panes of 1/8" (3.2mm) DSB insulated glass.

#### TRACK

- A. Material: Track shall be hot-dipped galvanized steel per ASTM A-653, and fully adjustable for adequate sealing of door to jamb or weatherseal.
- B. Type: Track may be configured as Normal Headroom, Low Headroom, Vertical Lift, Lift-Clearance, Incline and/or Contour, as noted and detailed on door schedule. (Note: delete from list any configurations that do not apply).
- C. Size: Track size shall be (select from list below):
1. 2" or 3" (51mm): as normally-provided.
  2. 3" (76mm): as optionally-provided, for promoting higher cycle life and durability.
- D. Mounting: Tracks shall be either bracket-mounted or angle-mounted (select from list below):
1. Bracket-Mount: Using 2" adjustable track bracket as typically provided for use with wood jambs.
  2. "Floor-to-Header" Angle-Mount: Consisting of continuous angle extending from the floor up to the door header, for use with steel, wood or masonry jambs. Continuous angle size shall not be less than 2 5/16" x 5" x 3/32" (59 x 127 x 2.5mm).



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3. "Floor-to-Shaft" Angle-Mount: Consisting of continuous angle extending from the floor, past the header, and completely up to the door shaft for use with steel, wood or masonry jambs. Continuous angle size shall not be less than 2 5/16" x 5" x 3/32" (59 x 127 x 2.5mm) on 2" track.
- E. Finish: Track finish shall be (select from list below):
  1. Galvanized: as normally-provided.
  2. Color matched U-bars as optionally provided.

#### **COUNTERBALANCE SYSTEM**

- A. Type: The door counterbalance shall be provided with aircraft-type, galvanized steel lifting cables with minimum safety factor of 5 to 1. Counterbalance system shall be (select from list below):
  1. Torsion Springs: as normally-provided, consisting of heavy-duty oil-tempered wire torsion springs on a continuous ball-bearing cross-header shaft.
  1. Weight Counterbalance: as optionally-provided for lift clearance and vertical lift only.
- B. Cycles: Torsion spring counterbalance cycle life shall be (select from list below):
  1. 10,000 cycles
  2. 25,000 cycles
  3. 50,000 cycles
  4. 100,000 cycles

#### **HARDWARE/ACCESSORIES**

- A. Hinges and fixtures: All hinges and brackets shall be made from galvanized steel
- B. Rollers: Track rollers shall have a 2" (50.8mm) or 3" (76.2mm) diameter, consistent with track size. Rollers shall have hardened steel ball bearings.
- C. Accessory Perimeter Seal: Doors may be furnished with perimeter seal for jambs and header (delete section if not applicable).
- D. Accessory Lock: Door systems may be furnished with and exterior or interior locking device (select from list below or delete section):
  1. Exterior Lock: shall have five-pin tumbler cylinder with night latch and steel bar engaging track.
  2. Interior Lock: shall have interior dead bolt provided with hole to receive padlock (padlock by others).