



**STYLEFORM™**  
OPTIMA

#### ACCEPTABLE MANUFACTURER

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

#### OPERATION

Operation shall be manual, motor and/or hand chain as specified and detailed on door schedule. (Note: delete from list any operations that do not apply).

#### SECTIONS

- A. Material: Sections shall be steel sandwich construction, 2" (51 mm) thick, roll-formed from commercial draw quality, hot-dipped galvanized steel per ASTM A-925 and A-653. Exterior and interior section skins to be constructed of 25 gauge (.015" minimum steel thickness) embossed wood grain material, mechanically interlocked and pressure bonded to a 1 7/8" (48mm) thick, expanded polystyrene core. Sections shall be encased at each end with wrap-around type 18 gauge end stiles. Hinge reinforcement plates shall be 16 gauge galvanized steel, located within section interior at every hinge location. Exterior section panel design shall be (select from list below):
1. Colonial Raised Panel: approximately square in design.
  2. Ranch Raised Panel: rectangular design.
  3. Flush: wood grain embossed and flush in design.
- B. Mounting: Sections shall be mounted in the door opening using (select from list below):
1. Lap Jamb Angle Mounting: as normally-provided, sections 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. Insulation: Sections will have an R-value of 10.25 and U-value of .097.
- D. Seals: Interior and exterior skins to be separated by a continuous dual durometer vinyl seal held in place by a mechanical interlock to form an effective thermal break and a complete weatherseal along the section joint. Bottom of door to have flexible U-shaped vinyl seal in an extruded aluminum retainer.
- E. Trussing: Doors shall be designed to withstand windloads of 12 lbs. per sq. ft. (97.6 kg/sq.m.). Deflection of door in horizontal position to be a maximum of 1/120<sup>th</sup> of door width.
- F. Color: Interior and exterior section skins shall have two coats of paint, one primer coat and one finish coat. Interior skin color shall always be white, exterior skin color shall be (select from list below):
1. White: Polyester paint
  2. Almond: Polyester paint
  3. ClayTone: Polyester paint
  4. BronzeTone: Polyester paint
  5. Dark Brown: Kynar® Paint
  6. Frost White: Kynar® Paint
  7. Sepia: Kynar® Paint
  8. Beige: Kynar® Paint
- G. Window Type: Sections may be furnished with either Colonial-type or Ranch-type windows, encased in an extruded PVC window frame. Quantity and location(s) of windows shall be per door elevation drawing(s) (select from list below or delete section):
1. Colonial Window
  2. Ranch Window
- H. Window Style: Windows may be furnished in one of several styles (select from list below or delete section):
- Colonial Type Windows
1. Glass only
  2. Snap-in Window inserts: Cascade, Cathedral, Sherwood, Stockton, Sunburst (not available in Frost White Kynar®, Sepia Kynar®, and Beige Kynar®)
  3. Silkscreen Windows: Sherwood, Cathedral
  4. Decorative Window Styles: Regency Acrylic Brass, Expressions Acrylic Brass, Diamond Frosted Leaded, Sunrise Frosted Beveled or Pinnacle Frosted Beveled for Colonial windows; or Antique Charcoal Leaded, Antique Brass Leaded, Diamonds 3 Frosted Leaded, Oval and Diamonds Frosted Leaded, Sunrise Frosted Beveled or Pinnacle Frosted Beveled for Ranch windows.
- Ranch Type Windows
1. Glass Only
  2. Snap-in Window inserts: Cascade, Stockton, Sunburst, Sunray (not available in Frost White Kynar®, Sepia Kynar®, and Beige Kynar®)
  3. Silkscreen Windows: Sunburst
  4. Decorative Window Styles: Regency Acrylic Brass, Expressions Acrylic Brass, Diamond Frosted Leaded, Sunrise Frosted Beveled or Pinnacle Frosted Beveled for Colonial windows; or Antique Charcoal Leaded, Antique Brass Leaded, Diamonds 3 Frosted Leaded, Oval and Diamonds Frosted Leaded, Sunrise Frosted Beveled or Pinnacle Frosted Beveled for Ranch windows.
- I. Glazing: Single glaze windows to be provided with 1/8" (3.2mm) thick DSB glass (select from list below or delete section):
1. Clear Glass: as normally-provided.
  2. Obscure Glass: as optionally-provided, (not available for silkscreen window styles).



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#### 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 weather seal
- 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" (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).
  - 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. White Powdercoat: as optionally-provided.

#### COUNTERBALANCE SYSTEM

- A. Type: The spring 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.
  - 2. Weight Counterbalance: as optionally-provided for lift clearance and vertical lift only.
- B. Cycles: Torsion spring counterbalance shall achieve (select from list below):
  - 1. 8,000 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. Perimeter Seal: Doors may be furnished with perimeter seal for jambs. Climate seal available for header (delete section if not applicable).
- D. Air Infiltration Seal: Vinyl bulb air infiltration seal between sections is provided.
- E. Accessory Lock: Door systems may be furnished with an 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).