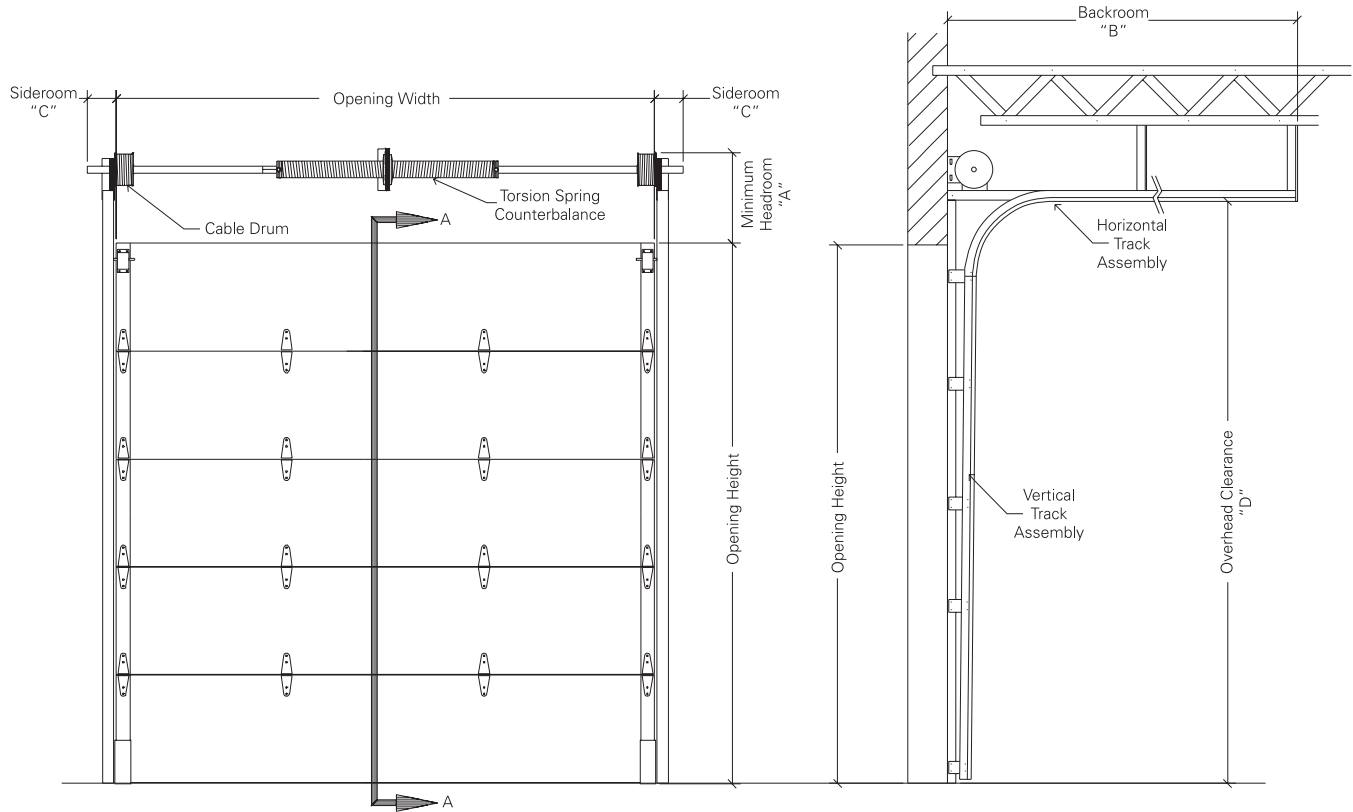


INSULATED STEEL SANDWICH DOOR - MODEL 3200

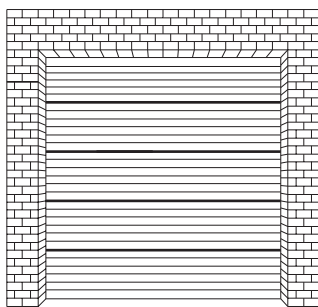
08360/CLO
Buyline 0309

- 2" Insulated Thermally Broken Steel
 - 24 Gauge Exterior Skin
 - Sandwich Type Construction
- R-Value = 9.1
U-Value = .11

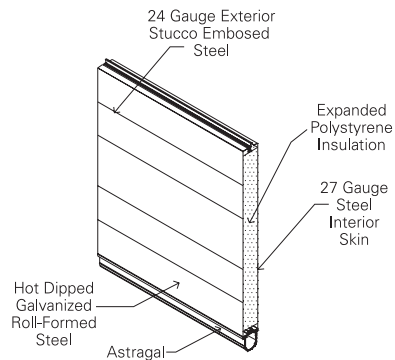


INTERIOR ELEVATION

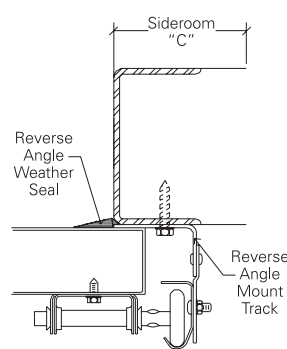
STANDARD LIFT TRACK



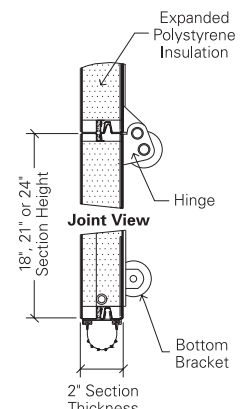
EXTERIOR ELEVATION



ISOMETRIC VIEW



STEEL JAMB DETAIL



**SECTION A-A
BOTTOM BRACKET VIEW**



INSULATED STEEL SANDWICH DOOR - MODEL 3200

08360/CLO

Buyline 0309

SPECIFICATIONS

PART 1 GENERAL

1.01 Section Includes

A. Upward Acting Sectional Steel Doors, including unit sections, brackets, tracks, glazing, counter balance mechanisms, and hardware.

1.02 Related Work

A. Opening preparation, miscellaneous or structural steel, finish or field painting, electrical wires, wiring, disconnect switches, conduit are in the scope of the work of other sections or trades.

B. Submit manufacturer's product data and installation instructions for each type of sectional door. Include both published data and any specific data prepared for this project.

1.03 Single Source Responsibility

A. Provide door, tracks, motors and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

PART 2 PRODUCT

2.01 Manufacturer

A. Upward Acting Sectional Steel Doors are to be Clopay® Model 3200 as manufactured by Clopay Building Products Company, Inc.

2.02 Material/Construction

A. Type: 2" (50.80 mm) thick, sandwich construction, roll-formed commercial steel.

B. Size: Standard maximum door size is 24'2" (7.37 m) wide and 20' (6.10 m) high. Maximum 480 sq. ft.

C. Section Joint: Sections to form a weather-tight tongue & groove fit.

D. Material: Hot-dipped galvanized, complying with ASTM A-924, A-653, exterior and interior skins separated by silicone filling to form thermal break and pressure bonded to an expanded polystyrene core; standard lift operating style with track and hardware; complying with DASMA 102, commercial application.

E. Finish: Pre-finished interior and exterior skins with 1-mil, three-coat baked-on polyester top coat over primer on a phosphate coating.

1. Exterior Skin: 24 gauge (.022", (.56 mm) minimum) exterior steel face sheet with stucco texture with shallow ribs at 4" (101.6 mm) or 5" (127.0 mm) on center. Color: white, brown.

2. Interior Skin: 27 gauge (0.016", (.41 mm) minimum) interior steel face sheet with stucco texture. Color: white.

2.03 Related Door Components

A. End Stiles: Galvanized steel primed with white baked on polyester top coat. Attachment hardware to have pre-punched holes.

1. 18 gauge (.049", (1.25 mm) minimum) single end hinge style.

2. 16 gauge (.055", (1.40 mm) minimum) double end hinge style. (standard on doors wider than 14'2")

B. Hinge and Roller Assemblies: Hinges and brackets to be 14 gauge (.070", (1.78 mm) minimum) galvanized steel.

1. Ten-ball steel rollers to be full-floating ball bearing in case hardened steel cases and mounted to fit the taper of the track.

2. Heavy-duty hinges and 12 gauge (.101", (2.57 mm) minimum) adjustable roller holders to be galvanized steel.

3. Hinge Support Plates: 20 gauge (.038", (.096 mm) minimum) galvanized steel. Prepunched for hinge alignment location. Tog-L-loc™ to interior skin.

2.04 Insulation

A. 2" Expanded Polystyrene:
R-value = 9.1, U-value = .11

2.05 Tracks

A. Horizontal Track: To be 14 gauge (.075", (1.91 mm) minimum) galvanized steel reinforced with 13 gauge (.085", (2.16 mm) minimum) galvanized steel angles.

B. Rolled Galvanized Steel (select one): Standard lift track, vertical lift track, high lift track, follow-the-roof slope track, low headroom track-provide: 2" (50.8 mm) or 3" (76.2 mm) as required.

C. Vertical Tracks: To be 16 gauge (.060", (1.52 mm) minimum) galvanized steel, tapered and mounted for wedge type closing.

D. Mounting: Interior face mounted on a prepared surface.

E. Track Mounting (select one):

1. Bracket Mounting: Galvanized steel mounting brackets 12 gauge (.101", (2.57 mm) minimum) thick for wood jambs.

2. Continuous or Reverse Galvanized Steel Angle Mounting: 12 gauge (.101", (2.57 mm) minimum) angle for steel jambs; splice plates 12 gauge (.101", (2.57 mm) minimum).

2.06 Spring Counterbalance

A. Springs: Shall be torsion type, low stress, helically wound, oil-tempered spring on a galvanized steel tube or solid steel shaft. Wire to provide 10,000 cycles minimum.

- 25,000 cycles
- 50,000 cycles
- 100,000 cycles

B. Cable Drums: Die cast aluminum.

C. Cable: Pre-formed galvanized steel aircraft cable to provide a minimum of a 7:1 safety factor.

2.07 Operation

A. Operation Shall Be: Manual push-up, chain hoist, motor operated.

B. For Manual Operation: Requiring maximum exertion of the greater of 5% of door weight or 25 lbs. (111.2 N) force to open. Use pull rope supplied.

C. Inside and outside roll-grip handle.

2.08 Weatherstripping

A. Field-Installed Section Joint Seal Tape: Neoprene foam seal, one-piece full length between joint of sections.

B. Field Installed Jamb/Header Weatherstripping: Extruded vinyl, placed in moderate contact with outside of door sections.

2.09 Bottom Sections

A. Astragal Retainer: Full length, .040" (1.02 mm) aluminum.

B. Astragal: U-shaped flexible PVC vinyl.

C. Step Plate: 3" (76.2 mm) galvanized steel step plate to be located on bottom section.

2.10 Locking

A. Inside spring loaded slide bolt lock on end stile to securely engage slot in track.

1. Optional - Outside keyed five pin cylinder lock with outside key and 16 1/2" (419 mm) inside lock bar engaging slot in track.

2.11 Options

A. Removable Mullions: 2" (50.8 mm) Carry-away or Roll-away up to 14' (4.267 m) high. Swing-up available for 2" or 3" track, consult factory.

B. Pass Door: 4 section pass door to be 2' 8" (.81 m) wide and up to 6' 8" (2.03 m) high, with maximum door width of 16' 2" (4.93 m) and maximum door height of 16' (4.88 m).

C. Glazing:

1. Window Size (select one):

- 24" x 8" (610 mm x 203 mm)
- 28" x 14" (711 mm x 356 mm)*
- 40" x 14" (1016 mm x 356 mm)*

*Some restrictions apply. Consult Technical Services.

2. Frame to be Cellular PVC.

3. Glass Available (select one):

- 1/8" DSB
- 1/8" Plexiglass
- 3/4" Insulated glass

D. Full Vision Sections: Optional Full Vision Aluminum Section, painted to match door color.

1. Full Vision Glazing Available (select one):

- 1/8" DSB
- 1/8" Plexiglass
- 1/4" Wire glass
- 1/2" Insulated glass

Some size restrictions apply to full vision width and type of glass. Consult factory.

PART 3 EXECUTION

3.01 Examination

A. Verify that dimensions are correct and project conditions are suitable for installation. Do not proceed with installation until unsatisfactory conditions have been corrected.

3.02 Installation

A. Installation: To be by an authorized Clopay representative and in accordance with manufacturer's instructions and standards.

B. Submit manufacturer's product data and installation instructions for each type of sectional upward acting door. Include both published data and any specific data prepared for this project.