



Ideal Door Model C7X20 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 Ideal Door[®] Model C7X20 as manufactured by Clopay Building Products Company, Inc.

2.02 Material /Construction

A. **Type:** 2" (50.8 mm) thick, sandwich construction, roll-formed commercial steel.

B. **Size:** Standard maximum door size is 26'2" (7.98 m) wide by 20' (6.1 m) high.

C. **Section Joint:** Sections to form a weather-tight tongue and groove joint.

D. **Material :** Hot-dipped galvanized, complying with ASTM A-924, A-653, exterior and interior skins separated to form thermal break and filled by foamed-in-place polyurethane 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 topcoat over primer on a phosphate coating.

1. **Exterior Skin:** 27 gauge (.016", (.40 mm) minimum) exterior steel face sheet with stucco texture, shallow U-ribbed. Color: white or brown.

2. **Interior Skin:** 27 gauge (.016", (.40 mm) minimum) interior steel face sheet with stucco texture, shallow U-ribbed. Color: white

2.03 Related Door Components

A. **End Stiles:** Galvanized steel. Attachment hardware to have pre-punched holes.

1. 18 gauge (.045", (1.14 mm) minimum) single end hinge style.

2. 16 gauge (.056", (1.42 mm) minimum) double end hinge style.

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 races and mounted to fit the taper of the track.

C. Hinge Back-up Plate: 19 gauge (.034", (.86 mm) minimum) galvanized steel.

1. Located at the top and bottom on the inside of each section.
2. 2" (50.8 mm) x 3" (76.2 mm) plates spaced at 44" (1.12 m) O.C.

2.04 Insulation

A. 2" Foamed- In-Place Polyurethane: R-value = 17.2, U-value = .058

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.

1. 25,000 cycles
2. 50,000 cycles
3. 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, or 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 Weather-stripping

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

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

2.09 Bottom Sections

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

B. Astragal: 3-1/2" (88.9 mm) co-extruded U-shaped flexible PVC vinyl.

C. Step Plate / Lift Handle: Horizontal steel step plate / lift handle 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 – Four point cylinder lock with L-handle and a single lock bar.

2.11 Options

A. Removable Mullions: 2" (50.8 mm) Carry-away or Roll-away up to 14' (4.267 m) high.

B. Glazing:

1. Window Size (select one):

- a. 24" x 8" (610 mm x 203 mm)
- b. 24" x 12" (610 mm x 305 mm)*

*Some restrictions apply. Consult Commercial Information Assistance

2. Frame to be rigid PVC.

a. Glass Available:

1. 1/2" Insulated glass
2. 1/2" Insulated Tempered glass
3. 1/4" wire glass

3. Full View Aluminum Sash

a. Glass Available:

1. 1/2" Insulated glass
2. 1/2" Insulated Tempered glass
3. 1/8" DSB
4. 1/8" Tempered
5. 1/8" Plexiglass
6. 1/4" Polycarbonate

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 Ideal Door representative and in accordance with manufacturer's instructions and standards.

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

Note to Specifiers: Please reference Clopay model 3720.