

**Haas Door Company**  
**Model CA-220**  
**1 3/4" Aluminum Door**

[1 Year Warranty](#)

These details and suggested specifications are to be used for: Model CA-220

- Aluminum Framed & Glass Glazed
- 1 3/4" (44.5mm) Thick Sections
- Heavy-Duty Industrial Frame
- Ship Lap section joint
- Custom Colors: Custom PPG Durnar or powder coat finishes are available.
- Standard Colors:



- Standard Painted Colors:



*Colors are not exact due to the differences in screen resolutions and printer calibrations.*

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**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Type: Sectional Doors are to be Model CA-220 as manufactured by Haas Door Company.
- B. Operation: to be manual / motor operated
- C. Mounting: to be Interior Face Mounted on a prepared surface.

**1.2 Related Work**

- A. Opening preparation, miscellaneous or structural steel, access panels, finish or field painting are in the scope of the work of other sections or trades.

**PART 2 PRODUCT**

**2.1 MATERIALS & CONSTRUCTION**

- A. Sections: shall be 1.75" (44.5mm) thick full tubular aluminum framework with .125 (3.18mm) wall thickness wherever hardware attaches. Vertical stiles and horizontal rails shall be miter-cut and joined with internal steel thru-bolts. Horizontal meeting rails shall have rabbeted overlap joints.
- B. Door Panels: shall be of 18 gauge stucco embossed clear anodized aluminum sheet, set in a continuous vinyl gasket and held in place by inside vinyl snap-in glazing bead.
- C. Glass Panels: shall be set in a continuous vinyl gasket and held in place by inside vinyl snap-in glazing bead. For 1/2" (12.7mm) thick glazing aluminum snap-in bead is used.
- D. End Stiles: shall be integral extruded aluminum framework.
- E. Intermediate Reinforcing: to be integral extruded aluminum framework, to provide reinforcing for attachment of various hardware.
- F. Bottom Section: The bottom section has a flexible vinyl astragal that has been designed for all-weather protection.
- G. Finish Coat: sections with a clear anodized aluminum. Color anodizing and special paint finishes are optional.
- H. Wind Load Rated Doors: Doors are built to meet or exceed standards established by ANSI/DASMA 102-2003.

**2.2 COUNTERBALANCE SYSTEM**

- A. Counterbalance: is factory calibrated to match site conditions.
- B. Springs: to be helical torsion type made from oil tempered wire. 10,000 cycle is standard.
- C. Assembly: torsion springs to be mounted on a coupled solid steel shaft or continuous heavy wall tubular steel shaft depending on door size and method of operation. Cable drums are die cast aluminum, and cables are high strength galvanized aircraft quality with minimum 8 to 1 safety factor.

**2.3 TRACKS**

- A. Vertical Tracks: to be minimum of 16 gauge galvanized steel tapered and mounted for wedge type mounting. Bracket mount is standard.
- B. Horizontal Tracks: to be minimum 16 gauge galvanized steel, reinforced with minimum 13 gauge galvanized angles as required (2" or 3" track depending on door size).



# COMMERCIAL

## 2.4 HARDWARE

A. Hinges: to be manufactured of hot-dipped galvanized steel, 14 gauge minimum. Double end hinges are supplied on doors 18'-0" and wider.

B. Rollers: to be full floating ball bearing in case-hardened steel races, mounted to fit the slope of the track.

## 2.5 LOCKING

A. Slide Bar Lock: to be inside spring loaded on end stile and shall engage slot in track.

## PART 3 Execution

### 3.1 INSTALLATION

A. Installation: to be by Haas Door authorized representative and in accordance with Haas standards and installation instructions.

### OPTIONAL FEATURES

#### Choice of Track Lift Types

- [Standard Lift](#)
- [Low Headroom](#)
- [High Lift](#)
- [Vertical Lift](#)

2" or 3" Track; Angle Mounted  
Exhaust Ports (Alum panel only)  
Cam Safety Device  
Spring Bumpers  
Chain Hoist  
High Cycle Springs  
Wind load Rating  
High Cycle Rollers  
Top Header Seal  
Pass Door  
Car Wash Cutout  
Security Bars