

# MODELS CA-220/CA-110

## Aluminum Sectional Doors

Industrial  
1st  
Choice  
Architects



Haas Models CA-220 and CA-110 Aluminum Sectional Doors are strong, handsome, and durable, and the No. 1 choice of commercial and industrial architects. Ideal for fire houses, car washes, auto service centers and dealerships, service stations, and tire stores.



Model CA-110 (Narrow-Line Frame)



Model CA-220 (Heavy-Duty Frame)



# Haas Models CA-220 and CA-110 Aluminum Sectional Doors... Designed to Meet the Most Demanding Specifications

## Specifications

### Part 1 - General

#### 1.01 - Section Includes

- A. *Type:* Sectional Doors are to be Models CA-220 and CA-110 as manufactured by Haas Door Company.
- B. *Operation:* To be manual push-up.
- C. *Mounting:* To be interior face-mounted on a prepared surface.

#### 1.02 - Related Work

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

### Part 2 - Product

#### 2.01 - Materials & Construction

- A. *Sections:* Shall be 1 3/4" (44.45 mm) thick full tubular aluminum framework with .125" (3.18 mm) wall thickness wherever hardware attaches. Vertical stiles and horizontal rails shall be miter-cut and joined with internal steel 1/4" "thru-bolts." Horizontal meeting rails shall have rabbeted overlap joints.
- B. *Door Panels:* Shall be 18 gauge stucco embossed or smooth clear anodized aluminum sheet (6063T6 alloy/.055 thick) 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" (12.7 mm) thick tempered glazing, aluminum snap-in bead is used. (Note: Glazing is 1/8" or 1/4" acrylic or 1/2" tempered.)

D. *End Stiles:* Shall be integral extruded aluminum framework.

E. *Intermediate Reinforcing:* Shall be integral extruded tempered aluminum framework, to provide reinforcing for attachment of various hardware.

F. *Bottom Section:* Weatherstrip to be a "U"-shaped astragal of flexible extruded vinyl.

G. *Finish Coat:* Sections with a clear anodized aluminum.

#### 2.02 - Spring Counterbalance

A. *Counterbalance:* Is factory-calibrated to match site specifications.

B. *Springs:* To be helically wound, oil tempered springs.

C. *Assembly:* Shall be contained on a continuous steel shaft retained in ball bearing brackets, with high-strength galvanized aircraft cable with a minimum 7 to 1 safety factor.

#### 2.03 - Tracks

A. *Vertical Tracks:* To be minimum of 16 gauge galvanized steel, tapered and mounted for wedge-type mounting (2" or 3" depending on door size and weight).

B. *Horizontal Tracks:* To be minimum 16 gauge galvanized steel, reinforced with minimum 13 gauge galvanized angles, as required (2" or 3" depending on door size and weight).

#### 2.04 - Hardware

A. *Hinges:* To be manufactured of hot-dipped galvanized steel, 14 gauge minimum.

B. *Rollers:* To be full-floating ball bearing in case-hardened steel races, mounted to fit the slope of the track (2" or 3" to suit track).

#### 2.05 - Locking

A. *Slide Bar Lock:* To be inside spring loaded on end stiles and shall engage a slot in the track.

B. *Cylinder Lock Optional:* This option cannot be field retrofitted and must be noted before the door is manufactured.

### Part 3 - Execution

#### 3.01 - Installation

A. *Installation:* To be by a Haas Door authorized representative and in accordance with Haas Door standards and instructions.

Options:

- A. Color anodizing and special finishes
- B. Exhaust ports
- C. Special glazing materials
- D. 1/2" insulated panels and glazing
- E. Perimeter seals

Sizes up to:

CA-220: 24'2"W x 20'1"H  
CA-110: 16'2"W x 16'1"H

## Rail/Stile Dimensions:

Model	CA-220			CA-110		Door Width	Panels Wide
	8'-16'2"	16'3"-18'2"	18'3"-24'2"	8'-13'11"	14'-16'2"		
Width up to	8'-16'2"	16'3"-18'2"	18'3"-24'2"	8'-13'11"	14'-16'2"	up to 8'11"	2
Center Stiles	2 1/2"	2 1/2"	2 1/2"	1 5/16"	1 5/16"	9' - 11'11"	3
End Stiles	4"	4"	6"	3"	3"	12' - 15'11"	4
Top Rail	4"	4"	6"	3"	3"	16' - 19'11"	5
Meeting Rail	4"	4"	4"	2 1/2"	2 1/2"	20' - 21'11"	6
Bottom Rail	4"	6"	6"	3"	4"	22' - 24'2"	8

## Aluminum Panels:

Your Professional Haas Door Dealer: