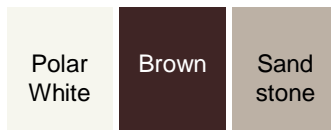


**Haas Door Company
Model C2411L
2" Insulated Doors**

Calculated R Value = 7.45
U Value = .135
[1 Year Warranty](#)

These details and suggested specifications are to be used for: Model C2411L

- 24 Gauge Steel Sections—Insulated with 1 5/8" rigid polystyrene with laminate backing
- 2" (50.8mm) Thick Sections
- Ribbed Pattern
- Tongue and groove section joint
- Available Colors:



Colors are not exact due to the differences in screen resolutions and printer calibrations. For accurate color samples, contact Haas Door for a color selector.

Exterior View



Interior View





Haas Door Company
Model C2411L
2" Insulated Doors

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Type: Sectional Doors are to be Model C2411L 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 2" (50.8mm) thick roll formed 24 gauge galvanized steel sections, insulated with 1 5/8" rigid polystyrene with laminate backing. Sections have a semi-flush configuration that creates a pleasing horizontal line effect.
- B. End Stiles: shall be "box" shaped from 18 gauge galvanized steel with white steel stile covers.
- C. Intermediate Reinforcing: shall be "box" shaped from 18 gauge galvanized steel with white steel stile covers.
- D. Finish Coat: section with a two-coat finish painting process consisting of a urethane primer and a tough polyester finish. Color: Brown, Sandstone, White.
- E. Bottom Seal: The bottom section has a full-length retainer with a flexible vinyl astragal that has been designed for all-weather protection.
- F. 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).

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.



COMMERCIAL

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; Reverse-angle track

Double Steel End Stiles

Exhaust Port(s)

Cam Safety Device

Spring Bumpers

Chain Hoist

High Cycle Springs

Wind load Rating

Glazing (Lites)

High Cycle Rollers

Aluminum Full View Section

Top Header Seal

Keyed Lock