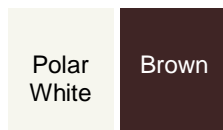


Haas Door Company
Model CHT-2033-20
2" 20ga. Smooth V-grooved Steel Insulated Door, 20ga. inside

Calculated R Value = 17.66
U Value = .057

These details and suggested specifications are to be used for: Model CHT-2033-20

- Steel Sections-Insulated, with 16ga. Galvanized Steel End Stiles
- 2" (50.8mm) Thick Sections
- 3" (76.2mm) 20ga. Smooth V-grooved outside, 20ga. Smooth V-grooved inside
- 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



Cross Section*



**For thickness representation only.
 Photo may not match model stile.*



Haas Door Company
Model CHT-2033-20
2" 20ga. Smooth V-grooved Steel Insulated Door, 20ga. inside

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Type: Sectional Doors are to be Model CHT-2033-20 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 20 gauge inside and outside, hot-dipped galvanized steel, insulated with high density polyurethane foam. Sections shall have smooth v-grooved interior and exterior.
- B. Insulation: fully insulated section using high density CFC free polyurethane foam, pressure injected to completely fill the section, providing a composite structure that is of exceptional strength and rigidity. The insulated sections provide exceptional insulation properties. Calculated R value = 17.66, U value = .057
- C. End Stiles: shall be 16 gauge hot-dipped galvanized steel, installed over vinyl end caps to maintain the thermal break.
- D. Intermediate Reinforcing: to be nominal 18 gauge steel back-up plates, inserted prior to foaming, to provide proper position and reinforcing for attachment of various hardware.
- E. Bottom Section: with full length, vinyl astragal retainer. Weather strip to be "U" shaped flexible extruded vinyl.
- F. Thermal Break: vinyl top and bottom caps on each section form the horizontal section joints, providing a complete thermal break.
- G. Header Seal: a top header vinyl seal is factory furnished for the top section.
- H. Finish Coat: section with a two-coat finish painting process consisting of a urethane primer and a tough polyester finish. Color: White or Brown.
- I. 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.
- 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 14'-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

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

Keyed Lock