



HOLLOW METAL DOORS

FEATURES

IDC custom steel doors are manufactured to the highest industry standards with many features exceeding the minimum requirements set forth in those standards. Fabrication is in accordance with HMMA 860, HMMA 861, HMMA 867 and ANSI A250.8. IDC steel stiffened and polystyrene doors have been tested and found to meet/exceed the requirements of ANSI A250.4.

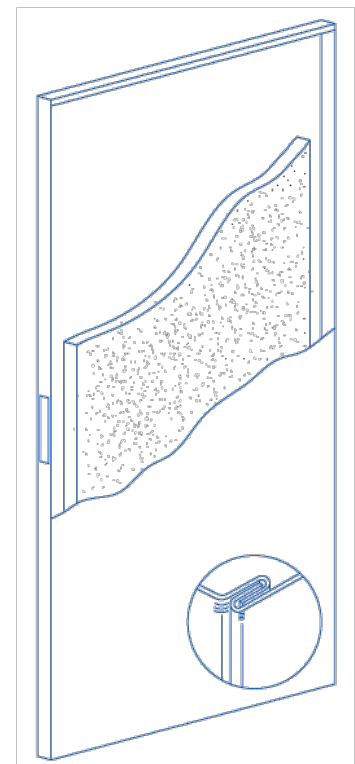
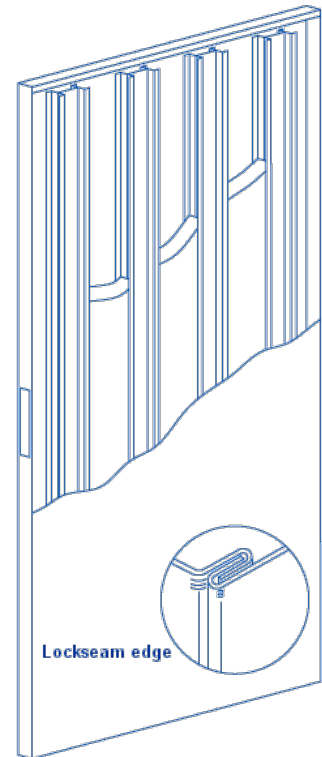
TYPICAL DOOR CONSTRUCTION DETAILS

Steel Stiffened Door HMMA 861

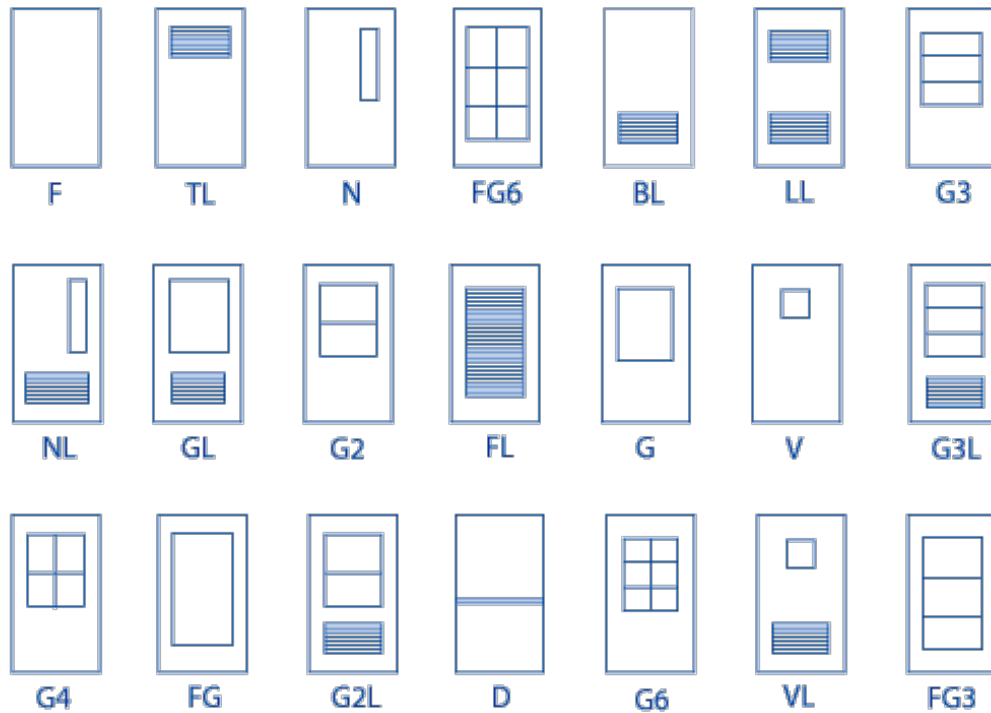
- 22 Ga. Stiffeners Spaced 6" apart Standard
- 2.5 lb. Density Mineral Fiber Standard
- 7 Ga. Hinge Reinforcement Standard
- 11 Ga. Lock Tabs Standard
- Standard Edge Seam Tack Welded, Filled and Finished Smooth
- Open Seam and Continuously Welded Available

Polystyrene Door HMMA 867

- Rigid Pre-formed Close Cell Board 1 lb. Density
- Core U-Factor .156
- Conforms to ASTM C578, Type 1
- 7 Ga. Hinge Reinforcement Standard
- 11 Ga. Lock Tabs Standard
- Standard Edge Seam Tack Welded, Filled and Finished Smooth
- Open Seam and Continuously Welded Available



DOOR ELEVATIONS



Vision Light Frames and Louvers are flush design integral with door standard

SEVERE WINDSTORM PRODUCTS

IDC windstorm products have been tested to the requirements for hurricane susceptible and wind borne debris regions as defined in the International Building Code and the Florida Building Code. Products are tested for impact resistance, design pressure and structural integrity while incorporating various commercial hardware applications. Product certification and validation by Underwriters Laboratories. Each windstorm product bears a UL Certified Listing Mark.

Test methods ANSI A250.13 Testing and Rating of Severe Windstorm Resistant Components for Swinging Door Assemblies ASTM E330-02 Standard Test Method for Structural Performance of Exterior Windows, Doors Skylights and Curtain Walls by Uniform Static Air Pressure Difference ASTM E1886-05 Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials ASTM E1996-05 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes, Missile D, Wind Zone 4 ASTM E1996-09 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Windborne Debris in Hurricanes, Missile D, Wind Zone 4

- Design Pressure- 70 psf
- Wind Speed- 140 mph
- Steel stiffened door construction

Single Opening

16 gauge min.- CR, A60, SS (door and frame)

Hardware:

Cylindrical lock

Mortise lock (also mortise deadbolt and mortise exit device)

Rim exit device

Pair Opening

16 gauge min.- CR, A60, SS (doors and frame)

Hardware:

- Cylindrical lock/Surface bolt
- Mortise lock (also deadbolt and mortise exit device)/ Surface bolt
- Rim exit device/Rim exit device/Hardware mullion
- Concealed vertical rod/Concealed vertical rod
- Surface vertical rod/Surface vertical rod
- State of Florida DBPR Approved
- Contact customer service for additional information, limitations and expanded product availability

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West: 800-544-4422 • East: 800-225-6737

www.intldoorclosers.com

THERMAL RATED PRODUCTS

IDC is one of the first steel door companies to test to the new and improved test standards. Door testing resulted in a wide range of products being added to our portfolio of doors for exterior applications. Results are based on actual data collected during laboratory testing of full door openings.

IDC doors have been tested for performance in accordance with ASTM C1199-09 Standard Test Method for Measuring the Steady-State Thermal Transmittance of Fenestration Systems Using Hot Box Methods

Products are available with U-factors ranging from 0.57 to 0.36 (R= 1.75 to 2.75). Steel stiffened, polystyrene and polyiso doors were included in the tests. Ratings are significantly better than those obtained from tests performed on wood and aluminum doors.

Thermal performance tests measure a door's thermal conductivity known as "U-Factor" and its inverse which is termed thermal resistance or R-Value. U-factors have units in the Inch-Pound system of BTUs per hour per square foot per degree (Fahrenheit) or Btu/hr-ft²-F. R-values have the rather unintuitive units of: hr-ft²-F/Btu. U-factor is based on measured heat flow through a sample at the temperature difference of the air on the indoor and outdoor sides. New test criteria provide realistic values representative of actual room conditions and are based on the full surface of an operable door rather than just the center portion of the door surface as with old test procedures.

Associated Standards:

- ASTM C1363-05 Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus
- ASTM E1423-06 Standard Practice for Determining Steady State Thermal Transmittance of Fenestration Systems.
- SDI 113 Standard Practice for Determining the Steady State Thermal Transmittance of Steel Door and Frame Assemblies.
- ASTM C1363 alone is not intended to determine performance of fenestration systems.
- ASTM C1199 has been established for this purpose and is used in conjunction with ASTM E1423 and ASTM C1363. (Source reference ASTM C1363, Scope, para 1.8- <http://www.astm.org/Standards/C1363.htm>)

Contact customer service for additional information and product availability

THERMAL RATED PRODUCTS

Sound rated doors by IDC have been tested and certified by nationally recognized testing laboratories. All doors are 1 3/4" thick and do not require cam lift hinges. Rated frames are also available. We match other manufacturers' hardware locations at no extra cost.

Sound Rated Products

Testing and certification in accordance with the following national test standards:

- ASTM E90-09 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- ASTM E413-10 Classification for Rating Sound Insulation
- ASTM E1332-10a Standard Classification for Rating Outdoor-Indoor Sound Attenuation
- ASTM E2235-04 Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods

Hardware Options Tested

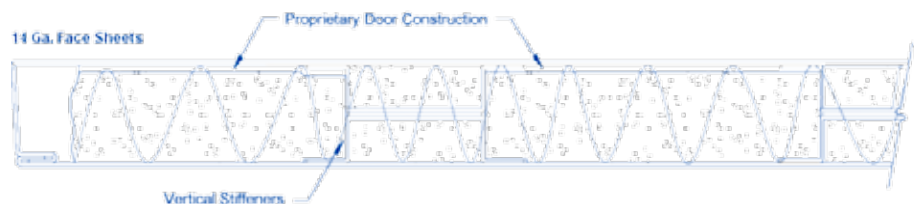
- Cylindrical lock prep
- Mortise lock prep
- Regular heavy weight butt hinges

Seals and Gasketing

- Provided for operable units

Ratings

- **STC 49 (operable)**
- **STC 48 (operable)**
- **STC 47 (operable)**
- **STC 39 (operable)**
- **STC 36 (operable)**
- **STC 52 (fully sealed/inoperable with hardware preps)**
- **STC 51 (fully sealed/inoperable with hardware preps)**
- **Operable standard polystyrene core available with STC 28 (18 ga. std. const.)**
- **Operable standard temp rise available with STC 36 (18 ga. std. const.)**
- **Inoperable proprietary polystyrene based core available with STC 43 (16 ga.)**
- **Frames grouted**
- **Contact customer service for additional information.**



Various hardware and seal combinations available
Standard heavy weight hinges may be used

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