



**IMB**



### APPLICATION AND USE

ISO 9001 Registered Company  
Alpine Fire-Storm IMB-V7 Doors are highly used in areas where there exists high winds and unusually high volumes of storm activity. Warehouses and Storage Facilities, Loading Dock Platforms, Store Fronts and Retail Outlets are just a few locations where these doors are very popular.

### THE ALPINE ADVANTAGE AND BENEFIT

- Alpine's Fire-Storm doors ensure security and fire protection and are listed and/or classified by:
  - Underwriter's Laboratories, Inc., (U.L.),
  - Underwriter's Laboratories of Canada, Inc. (U.L.C.),
  - Factory Mutual (F.M.) \*Flame Drop Baffle Required\*
- Make-To-Order manufacturing process. Alpine builds your product to the exact size specified by you.
- All of our products are constructed to have a rigid and compact design which provides for a more structural grade product while reducing overhead space and obstruction.
- Alpine builds trust by providing our products with a 2-year warranty on material and workmanship. As we also offer an optional five-year pro-rated warranty. Please call factory for more information on our pro-rated warranties.
- We are an ISO 9001 registered firm which ensures you that our products are built with true quality you can count on.

### FUNCTIONAL BENEFITS

Alpine Fire-Storm Doors are effective, strong and come in flat interlocking slat designs. Doors can be manually pushed up, hand-crank, hand-chain or motor operated. All operators can be adapted to specific conditions. Slide locks as a standard are provided. Alpine rolling steel doors are durable, sturdy and economical to install and maintain.

### FIRE-Storm LABELING

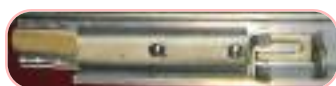
Fire Storm Doors have been UL classified and listed under the UL Category, "Products for use in Windstorm-Rated Assemblies - ZHLL", and were Miami-Dade County Tested for Protocols, PA-201, PA-202 and PA-203. Alpine Smoke-Fire Doors have been **UL Classified** and listed under the Product Category : **Rolling-Steel Type Fire Doors - GSNV**.

Ratings : 4 HR, 3 HR, 1-1/2 HR, 1 HR or 3/4 HR.  
Sizes : Classified for openings up to 20'wide X 30'high.

Manufacture Florida Department Of Community Affairs Fire-Storm Insulated doors with a design pressure of +60 psf & -60 psf, 1.5 Safety factor, 90+/- psf, by Alpine.

### INSTALLATION

- \*The opening preparation and the installation of the fire door shall be performed in strict compliance with NFPA-80.
- \*Opening preparation, miscellaneous or structural metal work, access doors, finish or field painting, field electrical wiring, wire, conduit, fuses and disconnect switches are in the Scope of Work of other divisions or trades.



Standard Slide Locks



### OTHER RELATED PRODUCTS





### DOOR CONSTRUCTION

#### CURTAIN

Constructed of Interlocking, roll-formed, Insulated Metal Backed (IMB) V7 slats, G90 coating exterior (G60 Interior), Structural Quality Grade C (ASTMA653/A653M) in 22 guage. Optional guages in 20 and 18.(Finish Options: phosphate, baked enamel or powder coated.)

#### GALVANIZED ENDLOCKS

Hot dipped galvanized cast iron endlocks and windlocks riveted to the ends of every slat, with (4) four, 1/4" rivets.

#### BOTTOM BAR

Two galvanized steel angles equipped with vinyl weatherstripping which extends into the guides. Standard galvanized ASTM A653/A653-M.

#### GUIDES

Guides are designed to meet Florida Department Of Community Affairs specifications using structural angles, ASTM A36. For doors up to 12'-0" Wide X 30'-0" High, wall angle 3" X 2-1/2" X 1/4", inside angle 2-1/2" X 2 "X 1/4", outside angle 3" x 3" x 3/16" min, bolt spacing not more than 15" o/c. For door widths 20'-8" to 30'-0" high, wall angle 3-1/2" x 3-1/2" x 7/16" min, inside angle 2-1/2" x 2-1/2" x 3/8" min, outside angle 4" x 3" x 1/4" min, bolt spacing not more than 9" o/c max. (Option: Vinyl Weather Stripping).

#### COUNTERBALANCE ASSEMBLY

Steel pipe barrel of a size capable of carrying a curtain load with a maximum deflection of 0.03" per ft. of door width. Heat treated springs encased in a steel pipe and designed to include an overload factor of 25% to ensure minimum effort to operate. A sealed and prelubricated ball bearing is present at the rotating support point. (A torsion spring charge wheel is used for applying spring torque and for future adjustments). Stainless steel or hot dipped galvanized pipe assemblies are available. Option: High Cycle Springs can be designed to satisfy up to 400,000 life cycles.

#### BRACKETS

Steel plate not less than 1/4" thick with ball bearings at rotating support points. When bolted to the wall the mounting angle supports the counterbalance assembly and forms an end enclosure. (Option: Stop Lock Bearing which prevents the door from free falling in the event of a drive operation failure.

#### HOOD Hexagon (Option: Square or Round)

#22 ga. galvanized steel is formed to fit the contour of the brackets. Finish Options: phosphate, baked enamel or powder coated.

#### FASCIA GALVANIZED (OPTIONAL)

Useful where the area behind the hood is open. Especially applicable to pre-engineered buildings.

#### OPERATION

Available in push-up, hand chain, hand-crank, or motor operation. For other optional features see the motor operators section in this catalog.

#### LOCKING

Provides padlockable slide locks for latching and locking the door on the coil side of the bottom bar. Electric Interlocks recommended with motorized doors.

#### FINISH

Slats are prepared with a minimum galvanizing of G-90 (exterior). The hoods are galvanized and other exposed ferrous surfaces are prime painted or powder coated.

See WIND-TITE / SERV-DAWN in this catalog for larger doors and custom design windload specifications. Programs are designed and reviewed by Professional Engineers.



**IMB - V5**  
5" INTERLOCK INSULATED SLAT



**IMB - V7**  
7" INTERLOCK INSULATED SLAT



### ADDITIONAL FEATURES

#### COVERS

Gear covers and operator covers are required for exterior mounted fire doors or when gears or operators are set below 8' ft in height from floor.

#### LOCKING

Optional padlockable slide locks available for latching and locking the door at the bottom bar. (Motor Operated Doors utilizing slide locks require Electric Interlocks)

#### SENSING DEVICES

Optional electrical or pneumatic sensing edge and/or Photo-Eyes available for motor operated fire doors only.

#### RELEASE DEVICES

The Fire-Tite doors are mechanically closed and are activated by a fusible link system. Release devices, thermal sensors, sounder/strobe devices and smoke detectors are available for tying fire door into the fire alarm system. *Please See Alpine's Release Device Page ([www.alpinedoors.com/release.htm](http://www.alpinedoors.com/release.htm))*

#### MOTOR OPERATORS

Choice of Redi-Master™, Redi-Hoist™, or Redi-Lift™ operators are available for Alpine's Conventional Fire-Tite product lines. *Please See Alpine's Motor Operator Page ([www.alpinedoors.com/motoroperators.htm](http://www.alpinedoors.com/motoroperators.htm))*

**ACCESS CONTROLS:** Optional control stations are available as Push Button Control Station or Key Control Stations. Special Control Stations are also available, please consult factory. *Please See Alpine's Access Controls Page ([www.alpinedoors.com/accesscontrols.htm](http://www.alpinedoors.com/accesscontrols.htm))*

#### FINISHES (Optional)

**Exo-Shield™:** The Powder Coat Finish is available for all of Alpine's Products and are available in over 188 standard colors with the option for custom colors and environmental requirements. *Please See Alpine's Color Selection Page ([www.alpinedoors.com/colors\\_standard.htm](http://www.alpinedoors.com/colors_standard.htm))*

**Hot-Dip Galvanizing:** Galvanizing is available for steel components.

**Stainless Steel:** Available in 300 series with options of mill finish, #2B, or #4 satin finish.

with low traffic and infrequent operational demands and requirements compared to other fire door products.

- Initial product cost is price *effective / affordable* for areas that only require the annual testing and resetting process.