



APPLICATION AND USE

ISO 9001 Registered Company

Smoke Fire-Tite IMB Slat Doors as manufactured by Alpine are ideal for and are commonly used in Industrial Facilities, Educational Facilities, Healthcare Facilities, Hospitals and Airports, Warehouses, Distribution Centers, and/or Hotels where Fire protection is needed. Insulated for extra protection.

FIRE-TITE LABELING

The Oversize Certificate is authorized for rolling steel doors for the protection of openings in fire walls, vertical shafts and exterior walls where the area exceeds 162 square ft., or for openings in the above locations when width or height exceeds 13'-6" x 12'. The maximum dimensions for doors for standard fire protection provided with the Oversize Fire Door Certificate is 56 ft. in width and 30 ft. in height. Fire doors exceeding 1,200 square feet must consult factory.

Doors are constructed to conform within requirements specified by Underwriter's Laboratories, Inc. (U.L.). Doors are automatic and self-closing through an isolating governing release system, Rated 4, 3, 1-1/2, 3/4 or oversized certificate.

Classifications:

- 3 hr Rating** - 3 hour approved for doors in dividing fire walls with openings not exceeding 162 sq. ft. in area. Sizes above 162 sq. ft. will be oversized.
- 1-1/2 hr Rating** - 1.5 hour approved for doors, in vertical shaft openings not exceeding 162 sq. ft. in area. Sizes above 162 sq. ft. will be oversized.
- 3/4 hr Rating** - 0.75 hour approved for doors in a corridor or a room-partition opening not exceeding 162 sq. ft. in area. Sizes above 162 sq. ft. will be oversized.
- 4 Hour Rated (Optional)**- Approved for doors with openings not exceeding 162 sq. ft. in area. Sizes above 162 sq. ft. will be oversized.

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.

THE ALPINE ADVANTAGE AND BENEFIT

- Alpine's Fire-Tite 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

OTHER RELATED PRODUCTS





DOOR CONSTRUCTION

CURTAIN

Insulated Flat Slats constructed of 7/8" thick interlocking, roll-formed IMB V7, galvanized steel slats, G90 coating exterior, (G60 interior), Structural Quality Grade C, as per ASTM-653/A653-M) in 22 Gauge. Optional Gauges in 20 and 18. Finish Options: baked enamel or powder coated. Curtain equipped with a bottom bar which consists of two roll-formed galvanized steel angles measuring 2"x2"x1/8" and is designed to reinforce the bottom of the curtain. Bottom bar equipped with a vinyl smoke seal astragal.

BRACKETS

Made from a steel plate 1/4" thick. Ball bearing at rotating support points. Bolted to the wall mounting angles with 1/2" fasteners. Plate supports the counterbalance assembly and forms an end enclosure.

HOOD HEXAGON (Square or Round OPTIONAL)

Constructed from #22 gauge galvanized steel and formed to fit the contour of the brackets. Intermediate supports are used as required in order to prevent excessive sag. Option: stainless steel. Hood equipped with a Lintel, 2" brush seal.

GUIDES

Guides are designed using structural steel angles with a minimum thickness of 3/16", expansion slotted connections, and removable bellmount curtain stops to allow for curtain maintenance without removal of the guides. Bellmount stops shall be flush with the guide groove. Guides equipped with a 1 1/2" brush smoke gasket.

COUNTERBALANCED 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 helical torsion springs encased in a steel pipe and designed to include an overload factor of 25% to ensure minimum effort to operate. Sealed and prelubricated ball bearings are located at rotating support points. Torsion spring charge wheel is present for applying initial spring torque and for future adjustments. Option: stainless steel or hot dipped galvanized. Option: High Cycle Springs can be designed to satisfy from 10,000 through 400,000 life cycles.

OPERATION

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

LOCKING

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

FINISHES (Optional)

Finish on steel to be shop coated primer, except galvanized surfaces. Stainless steel, mill finish #2B, #4 satin, polished or mill finish.

GALVANIZING

To be applied to the guides, brackets, pipe shafts and gears in addition to the standard specifications. Applied where conditions of extreme or unusual atmospheric contamination is present. In accordance with ASTM: A123.

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
5/8" FIRE TITE INSULATED SLAT



IMB - V7
1" FIRE TITE 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)*

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)*

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)*

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)*

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.

LEAKAGE RATED DOOR ASSEMBLIES

The Alpine Smoke-Fire-Tite Door products have been UL Classified and are listed under the UL Product Category : **Leakage-Rated Door Assemblies - OPBW.**