Counter-Shutter Fire Door

BOTTOM BAR OPTIONS
- Roll-formed, Double Angle
- Tubular Bar (Laser Cut)

HOOD SHAPES AVAILABLE FOR THIS DOOR
- Square Shape
- Round Shape

OBSTACLE EDGES AVAILABLE
- Electric Sensing Edge

GUIDE DETAIL
- Existing Ceiling
- Inner Steel Sleeve Max
- Outer Steel Tube
- Base Plate

TUBE MOUNTING FOR FIRE DOORS
TO ALLOW FOR HEAT EXPANSION

EXISTING CEILING
JERZY SLEEVE

1/8"/FT OF HEIGHT FOR EXPANSION

INNER STEEL SLEEVE MAX 1/8" TOTAL CLEARANCE BETWEEN INNER SLEEVE AND OUTER STEEL TUBE

FM REQUIRES INTERMEDIATE SUPPORTS, NOT MORE THAN 8'—0" APART.

OUTER STEEL TUBE

BASE PLATE

EXISTING FLOOR

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Call your Alpine representative for additional options and safety products to help find the best Alpine door to suit your needs.
Finding the minimum required operation for the size door you need.

Height of Shutter

Operator Legend

- Hand Chain Operation
- Motor Operation Only

To use Chart: Find where your door width and height meet to find the minimum operation that may be used for that door size. For example: The blue line indicates a Hand Chain Operation. Any size door on that line or above that line may use a Hand Chain, including the door sizes that fall into the Manual push up door. But, The Manual push up door may not be used for any door size below the line representing Push up operation. For any door size larger than what is represented here please consult your Alpine Overhead Doors, Inc. Factory. This Graph is for reference only, subject to change without notice.

Finding the minimum required bracket size for the door you need.

Height of Shutter

NOTE: Bracket sizes may vary based on gauge of curtain. Bracket size is directly related to the pipe low moment arm deflection (not more than .03 inches per foot).

To use Chart: Find where your door width and height meet to find the minimum bracket size for your door. For any door size larger than what is represented here please consult your Alpine Overhead Doors, Inc. Factory. This Graph is for reference only, subject to change without notice.
Finding the minimum required operation for the size door you need.

**Operator Legend**
- Hand Crank Operation
- Motor Operation Only

To use Chart: Find where your door width and height meet to find the minimum operation that may be used for that door size. For example: The blue line indicates a Hand Crank Operation. Any size door on that line or above that line may use a Hand Crank, including the door sizes that fall into the Manual push up door. But, the Manual push up door may not be used for any door size below the line representing Push up operation. For any door size larger than what is represented here please consult your Alpine Overhead Doors, Inc. Factory. This Graph is for reference only, subject to change without notice.

Finding the minimum required bracket size for the door you need.

**NOTE:** Bracket sizes may vary based on gauge of curtain. Bracket size is directly related to the pipe low moment arm deflection (not more than .03 inches per foot).

To use Chart: Find where your door width and height meet to find the minimum bracket size for your door. For any door size larger than what is represented here please consult your Alpine Overhead Doors, Inc. Factory. This Graph is for reference only, subject to change without notice.