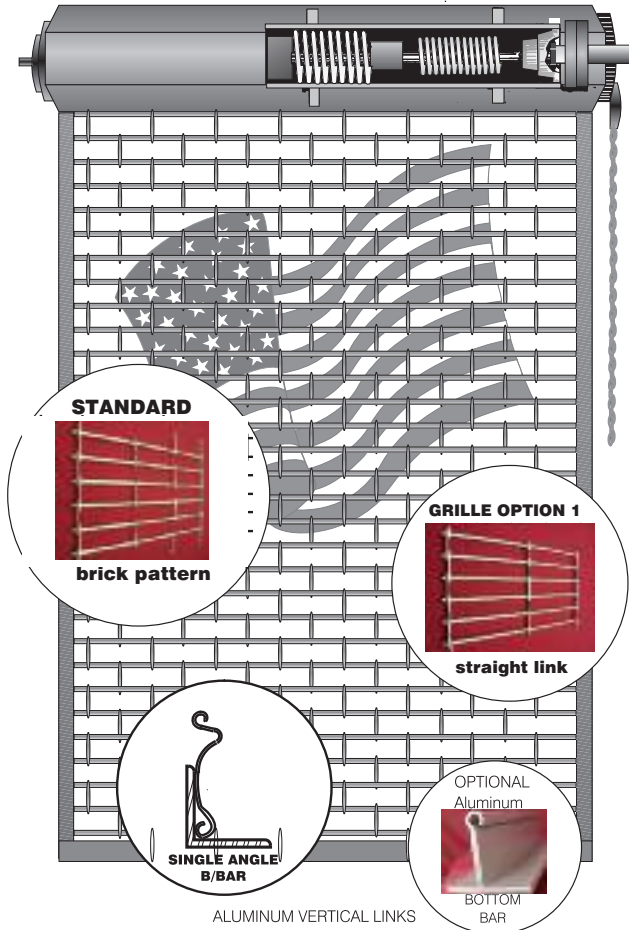




Exo-Shield™



### APPLICATION AND USE

ISO 9001 Registered Company  
Rolling Economy Grille doors as manufactured by Alpine. Econo grille doors are designed for easy operation and long life use with minimum maintenance required. Ideal for stores, malls and shopping centers. Alpine Grille Doors are also used to protect glass window openings and service window openings.

### THE ALPINE ADVANTAGE AND BENEFIT

Alpine Grille Doors are very durable and require very low maintenance for many years of continued operational use. No matter how large or small the job or how unusual the application, Alpine has a service door that meets your individual specifications. Doors are available in different materials including galvanized, prime painted, stainless steel, and aluminum. Alpine's quality and workmanship are proven throughout the door industry. Our hands-on approach to every job ensures customer satisfaction.

### INSTALLATION

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.

### FUNCTIONAL BENEFITS

Alpine Security Grille Doors are designed for easy operation and are trouble free with minimal maintenance. The Alpine Grille offers security and protection as well as the ability to visually observe what is behind the door when fully closed.

### OTHER RELATED PRODUCTS



Slide Locks Optional



GUIDE CONFIGURATIONS					
CLEARANCE DETAILS					
FACE MOUNTED (C = BRACKET SIZE; H = HEIGHT)					
HEIGHT	C	C+ 1/2	TYPE	A	B
up to 6'0"	14	14 1/2	1	5 1/2	6 1/2
6'6" to 9'6"	15	15 1/2	2	5 1/2	7
10'0" to 12'6"	16	16 1/2	3	5 1/2	1'10"

### DOOR CONSTRUCTION

#### CURTAIN

Curtain grille construction consists of the Alpine Straight Pattern 6" with aluminum vertical links and horizontal PVC sleeves. There is a choice of 4 standard colors: bronze, black, silver, or gold. Continuous solid 5/16" hot dipped galvanized horizontal rods spaced 2" o.c. are to be covered with tubular spacers. Continuous end links are made to prevent the curtain from leaving the side of the guides. The bottom bar consists of an extruded aluminum "T" bottom bar.

#### BRACKET PLATES

Steel plate not less than 1/4" thick. The drive end bracket plate is fitted with a sealed ball bearing and the bracket plates are mounted to the wall mounting angles with 1/2" fasteners.

#### GUIDES

Produced from roll formed steel with return retainers to prevent the grille from leaving the guide rails. The mounting angles are a minimum of 2 1/2" x 2 1/2" x 3/16" angles. (Option: 3" mounting tube for up to a 20' wide door and 4" mounting tube for a door over 20'1" wide. See Mall Dawn for mounting to tube configurations.)

#### SPRING COUNTERBALANCE

To be housed in a steel pipe with a diameter and wall thickness to restrict maximum deflection to 0.03" per foot of door width. Hot rolled A36 material. Springs are of the helical torsion type which are designed to include an overload factor of 25% for optimum ease of operation. The springs are grease packed and mounted on a cold rolled steel inner shaft. Spring tension is adjustable from the outside of the end bracket plate. Sealed ball bearings prevent wear on the pipe shaft. Life cycles from 10M to 400M.

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

Produced in 22 ga. steel and formed to fit the contour of the brackets with 3/8" thick intermediate supports used as needed to prevent excessive sag.

#### OPERATION

Push-up, hand chain, hand-crank, or motor operation available. For optional features see the motor operators section in this catalog. *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))*

#### LOCKING

Door provided with hasp and pins. Locking with padlocks from the coil side. Option: Cylinder locks or slide locks. Electric Interlocks recommended with motorized doors.

#### FASCIA GALVANIZED (OPTION)

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

#### FINISH (OPTION)

Finish on steel to be shop coated primer, except galvanized surfaces. Stainless steel, #2B, #4 satin, polished or mill finish. Call for color options and finishes. *Please See Alpine's Color Selection Page ([www.alpinedoors.com/colors\\_standard.htm](http://www.alpinedoors.com/colors_standard.htm))*

