



# ROLLING STEEL PERFORATED DOORS 225 SERIES

## SPECIFICATIONS

**FURNISH** Rolling Service Doors, series 225 as manufactured by "USP" complete with curtain, hood, guides, counterbalance and options as specified.

### OPERATION

- manual lift
- chain hoist using gear reduction and galvanized hand chain
- internal or external industrial motors
- hand crank using gear reduction and removable hand crank

**CURTAIN** consists of interlocking slats cold rolled formed from galvanized steel clamshell profile (SP4). Slat thickness shall be calculated with U.S. gauging with a minimum of 22ga. for doors up to 22'4" wide. Steel slats are to be galvanized as per A.S.T.M. A653. Each curtain shall receive a bottom bar to maintain slat alignment and posture.

**BOTTOM BAR** shall consist of two steel shop primed angles a minimum 1/8" thick.

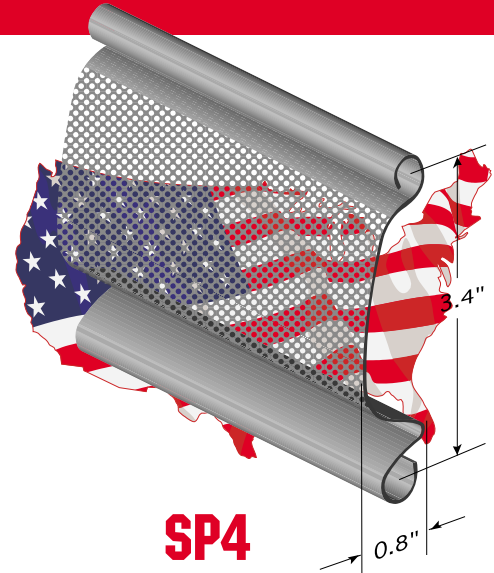
**SPRING COUNTERBALANCE** is to be housed in a steel pipe of the appropriate diameter and wall thickness as to support curtain. Deflection shall be limited to a maximum of .03" per ft. of door width. Springs are to consist of helical torsion type designed to meet a 25% safety load factor. Safety

## HIGHLIGHTS

- **Economically priced**
- **Torsion spring counterbalance**
- **3" steel angle guides**
- **Wide profile slat**
- **22 gauge galvanized steel curtain**
- **Double steel angle bottom bar**
- **Galvanized steel hood**
- **Easily serviced**

factor allows for safe operation, ease of use, and longer spring life. Springs are to be grease packed and anchored, using a cast iron anchor, to a cold rolled steel inner shaft. Spring tension shall be fully adjustable from outside of end bracket plate. To insure smooth operation end bracket plates shall contain sealed ball bearings to minimize wear of pipe shaft.

**END BRACKET** plates shall consist of steel plate no less than 3/16" thick. Bracket plates are to house pipe shaft and counterbalance assembly. Shaft is attached to plate by sealed ball bearings fitted onto plate.



**SP4**

**GUIDES** shall consist of a minimum of 3" structural steel angles a minimum of 3/16" thick. The guide depth shall be of a length adequate to provide for proper slat penetration and specified windloading.

**HOODS** shall consist of a minimum of #24 U.S. gauge steel. Hoods are designed to protect and house counterbalance assembly. In order to prevent hood sag intermediate supports shall be furnished as required.

**LOCKING** for manual and chain operated doors to be slidebolts mounted on bottom bar with provisions for padlocks. Gearing within motors to be self locking.

**FINISH** all non-galvanized surfaces shall receive a shop coat of rust inhibiting primer. Field painting not included in this section.

**INSTALLATION** to be by USP or by an authorized dealer.

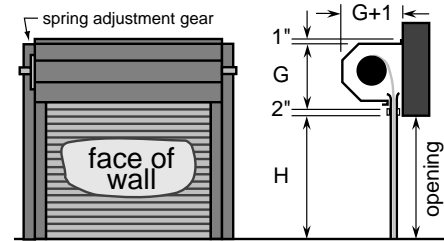
## OPTIONS

- Sloping bottom bar
- Security panel
- Kick plate using SC4 slat
- Bottom bar with rubber astragal
- Designer Hood



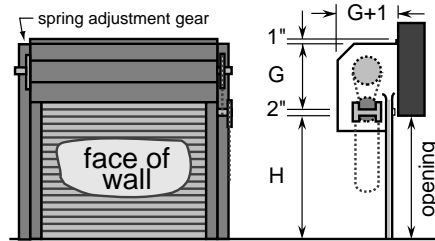
# C L E A R A N C E   D E T A I L S   2 2 5   S E R I E S

## MANUAL OPERATION



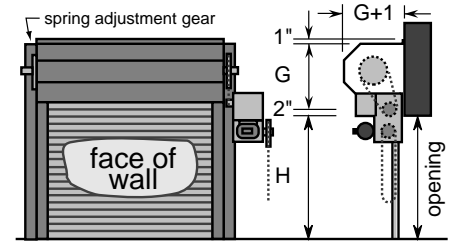
**Models:**  
SP4-10

## CHAIN OPERATION

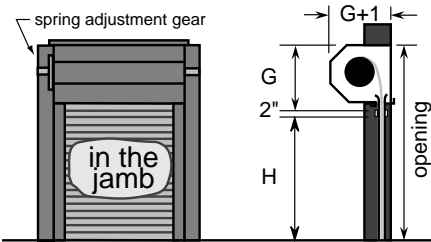


**Models:**  
SP4-20

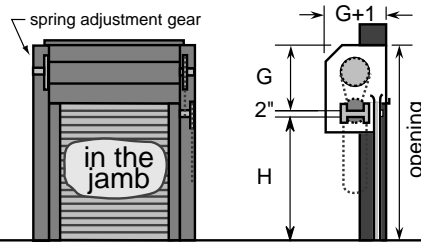
## MOTOR OPERATION



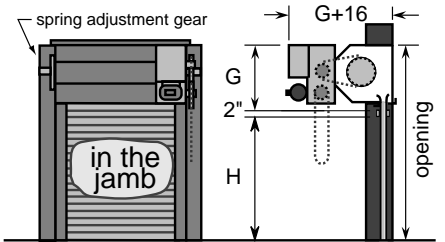
**Models:**  
SP4-40



**Models:**  
SP4-15



**Models:**  
SP4-25



**Models:**  
SP4-45

## CURTAIN TYPE

**SP4** Flat slat perforated door

## CURTAIN FINISH

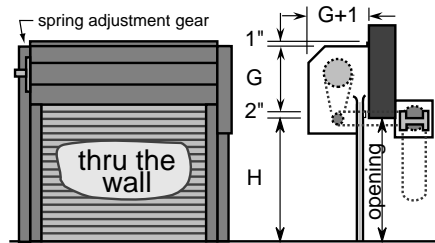
**GS** Galvanized steel

## TRIM FINISH OPTIONS

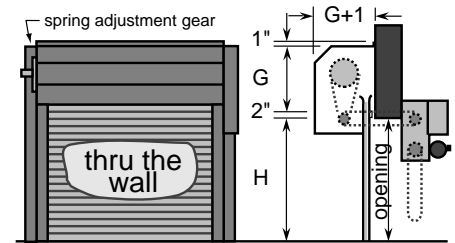
**HOOD**  
BRONZE  
BLACK  
GREY

**GUIDES**  
BRONZE  
BLACK  
GREY

**BOTTOM BAR**  
BRONZE  
BLACK  
GREY



**Models:**  
SP4-25TW

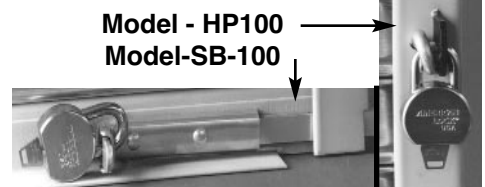


**Models:**  
SP4-45TW

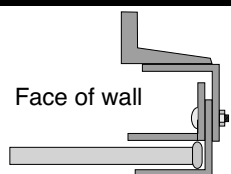
WIDTH	A	B	C
to 12'6"	6	8	9
12'6" to 18'6"	6	8	9
18'6" to 24'6"	6.5	8.5	9.5

H - HEIGHT	G
to 9'6"	16
9'6" to 11'6"	16
11'6" to 13'6"	17
13'6" to 16'6"	18
16'6" to 19'6"	20

## STANDARD LOCKING TYPES

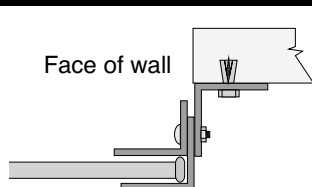


## E-MOUNT



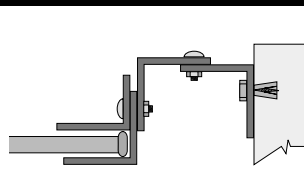
For fastening to steel using machine bolts or welding

## Z-MOUNT



For fastening to masonry using expansion bolts or through the wall threaded rods (if required.)

## BETWEEN THE JAMBS



Where clearances are critical, dimensions may be reduced. Refer inquiries to our Engineering Department.

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