

COMMERCIAL STEEL SECTIONAL DOORS

MODELS 220 & 224

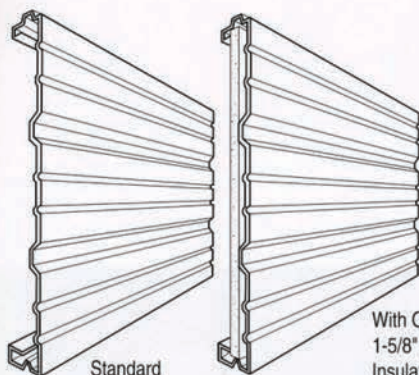


COMMERCIAL STEEL SECTIONAL DOORS

MODELS 220/224

Models 220 and 224 are 20 and 24 gauge respectfully. They have a semi-flush panel configuration that creates a pleasing horizontal-line effect. All Models 220 and 224 doors are hot-dipped galvanized steel with a urethane prime coat and a polyester topcoat of paint.

Construction Standards



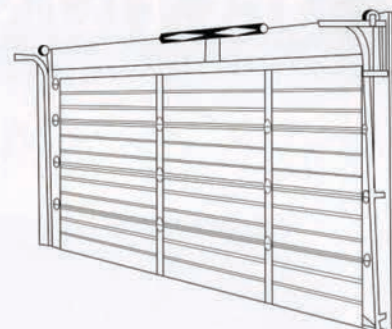
With Optional
1-5/8" Polystyrene
Insulation

Width: 220/224 - 24'-2" max.

Height: 20' max.

Maximum square feet: 480

Thickness: 2"



Sideroom Requirements

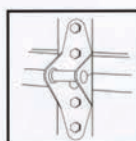
TRACK	JAMBS	SIDE ROOM
STANDARD 2"	WOOD	3-3/4"
	STEEL	4-3/4"
STANDARD 3"	WOOD	4-1/2"
	STEEL	5-1/2"
LOW HEADROOM 2" ONLY	WOOD	7"
	STEEL	8"

Low Headroom Applications: 2" double track LHR requires 12" for front-mount springs, and 6-1/2" for rear-mount springs.

High Lift Applications: For high-lift measurements, measure your actual unobstructed headroom and subtract 12". This will determine your added highlift.

Straight Incline Vertical Lift Applications: Requires double the door height plus 24".

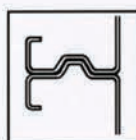
Vertical Lift Breakaway: Please consult with your Haas Door Dealer.



Vertical reinforcing members are attached to both the upper and lower horizontal meeting rails and to intermediate points of the panel to provide added rigidity. Heavy gauge galvanized steel intermediate hinges are bolted to the vertical members at all intermediate points.



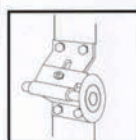
Standard lock is inside slide bolt. Optional locking device utilizes a spring loaded lock bar, inside and outside lock handles and 5 pin cylinder.



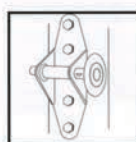
Weatherproof section joint. Top and bottom meeting rails are roll formed to provide a tongue & groove joint.



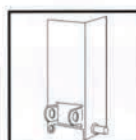
The bottom section has a full-length, retainer with a flexible vinyl astragal that has been designed for all-weather protection.



Adjustable top roller bracket, fabricated from heavy gauge galvanized steel, can be easily adjusted to provide positive seal at the header.



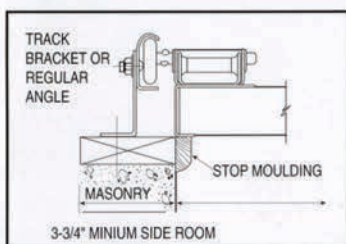
Combination hinge/roller brackets are fabricated from 14 gauge galvanized steel and are attached to the end stiles with machine screws. All rollers have continuous steel rim and ten 1/4" diameter hardened ball bearings in case-hardened inner and outer races.



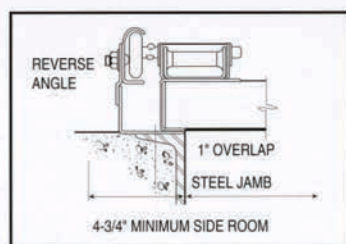
Bottom corner bracket is fabricated from heavy gauge galvanized steel. Bracket is attached to bottom rail and end stile to form a lifting cradle and also holds cable assembly securely in position at each side of door.

Headroom	2" Track	3" Track
Doors to 8'-0"	14-1/2"	15-1/2"
8'-1" to 10'-0"	15"	16"
10'-1" to 13'-11"	16-1/2"	17-1/2"
14'-0" to 17'-0"	17-3/4"	18-3/4"
17'-1" to 20'-0"	18-3/4"	19-3/4"

In normal installation the bottom of the horizontal track lies 7" above the top of the opening, and parallel to the floor. The spring and drum assembly extends above, and requires additional headroom. The amount of headroom required depends on the door height.



Wood Jamb Installation –
2" track bracket mounting regular
angle mounting



Steel Jamb Installation –
2" track reverse angle mounting

Optional Glazing



6' x 24" glass light/12' x 24" glass light



Aluminum full view section

Optional Insulation

Model	Insulation	Back panel	U	R
224-L (24ga)	1-5/8" rigid polystyrene	matte back	.135	7.45
224-S (24ga)	1-5/8" rigid polystyrene	26 gauge steel	.135	7.45