

heavy-duty

# RAISED PANEL STEEL DOORS



STEEL	EFFICIENCY	WARRANTY
<b>24</b>	<b>6.3</b>	<b>10YR</b>
GAUGE	R-VALUE	LIMITED
		CONSTRUCTION

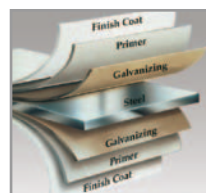
(664V)

## FEATURES

- 2" thick sectional steel traditional raised panel door.
- Full 24 gauge, heavy-duty steel skins are hot-dipped, galvanized, coated inside and out with an epoxy primer and finished with a baked-on Snowmist White, Almond, Desert Tan, Sandtone or Chocolate polyester top coat for maintenance-free performance.
- Available non-insulated or insulated with environmentally-safe expanded polystyrene molded to the section.
- Durable rust-resistant Tog-L-Loc® construction eliminates rivets and welds.
- Many optional window and track configurations available.
- Ideal in commercial settings requiring a contemporary look.



Short Traditional Raised Panel



Rust-Resistant

heavy-duty

# RAISED PANEL STEEL DOORS

**Quality Assurance** – Doors shall be steel sectional overhead type as manufactured by Clopay Building Products Company. Each door is provided as one complete unit including sections, brackets, tracks, counterbalance mechanisms, and hardware (list options) to suit the opening and headroom available. Standard maximum size 20'2" wide by 18'0" high (Model 664) and 20' wide by 18'0" high (Model 664V).

**Materials and Construction** – Sections shall be 2" thick roll formed commercial quality 24 (.022" min.) gauge steel, hot-dipped galvanized per ASTM A-924, A-653, phosphate coated, prepainted with primer and baked-on polyester top coat. Galvanized end stiles to wrap face of section by full 3/4". Minimum 18 gauge (.049" min.) end stiles up to 16'2" wide; over 16'2" have double end stile composed of (1) 18 gauge plus (1) 20 gauge center. All stiles engineered for easy hardware attachment through prepunched holes. All turn-down center stiles 20 gauge center stiles galvanized. End stiles and face panels shall be fastened with Tog-L-Loc® joining system. Center stiles bonded to face with clear adhesive and fastened to rails with wafer head sheet metal screws. Bottom section reinforced with full length .050" aluminum astragal retainer. Astragal to be U-shaped flexible PVC vinyl. Meeting rails to form weathertight tongue-and-groove joint. Combination step plate/lift handle provided for the bottom section.

**Finish** – Exterior of door to be prefinished with a 3-coat process of a baked-on polyester top coat over primer on a phosphate coating. Standard colors include Snowmist White, Almond, Desert Tan, Sandtone and Chocolate. Interior to have baked-on polyester over primer. One full mil exterior, and one half mil interior. FINISH GUARANTEED AGAINST RUST-THROUGH FOR TEN (10) YEARS.

**Hardware** – All hinges and brackets to be manufactured of hot-dipped galvanized steel, 14 gauge minimum. 10-ball steel rollers to be full floating in case-hardened steel races, mounted to fit the taper of the track.

**Tracks** – 2" or 3" track as required. Vertical tracks to be a minimum of 16 gauge galvanized steel tapered and mounted for wedge-type closing. Horizontal tracks to be minimum 14 gauge galvanized steel, reinforced with minimum 13 gauge galvanized angle as required. 3" track to be 12 gauge.

**Spring Counterbalance** – Door assembly to be operated by a torsion spring counterbalance mechanism, with a helically wound, oil tempered torsion spring mounted on a galvanized steel tube or solid steel shaft as required. Cable drums are die cast aluminum. Lift cables are high strength, galvanized aircraft cable with minimum 7:1 safety factor.

**Locking** – Inside spring loaded slide bolt lock on end stile shall engage slot in track.

**Wind Loading** – Door shall comply with ANSI/DASMA 108 or to meet specific application requirements.

**INSULATION OPTIONS**

Insulation Model Number with Backer Options	Section Backing Material Options	Polystyrene Thickness	Section R-value*
664V	Polyethylene vinyl sheet	1-3/8"	6.3

\*Calculated door section R-value is in accordance with DASMA TDS-163.

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**OPTIONS**

- A. Insulation (see chart below)** – Maximize energy efficiency with polystyrene insulation. Polyethylene vinyl (664V) backer on door interior for durability.
- B. Glazing** – 19-1/2" x 12" or 40-1/2" x 12" window lite with rigid cellular PVC frame. SSB, DSB or 1/8" clear acrylic window panes are available.
- C. Locking** – Five-pin cylinder lock with outside key; inside lock bar engaging a slot in the track from the first center stile, right side looking out.
- D. High Cycle Spring** – Available in 25,000; 50,000; 100,000 cycles.
- E. Track** – Vertical lift, high lift, follow-the-roof slope and low headroom track available. 2" or 3" as required.
- F. Weatherstripping** – Complete perimeter seals available in various materials.
- G. Oversized Doors** – See Model 3213.

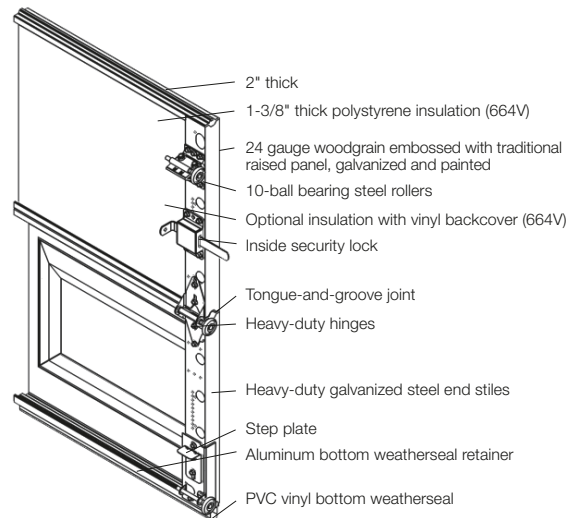
**PANEL AND WINDOW ARRANGEMENT**

Door Width	Number of Raised Panels	Maximum number of Lites for 19-1/2" x 12" Window
4'2" to 6'0"	2	2
6'2" to 7'10"	3	3
8'0" to 9'10"	4	4
10'0" to 11'10"	5	5
12'0" to 13'10"	6	6
14'0" to 15'10"	7	7
16'0" to 18'10"	8	8
19'0" to 19'10"	9	9
20'0" to 20'2"	10	10

\*40-1/2" x 12" window available only in the following door widths: 8', 9', 12', 12'2", 16', 16'2", 18', 18'2".

**SECTION ARRANGEMENT**

Door Height	Number of Sections
Up to 7'0"	4
7'6" to 8'9"	5
9'0" to 10'6"	6
10'9" to 12'3"	7
12'6" to 14'0"	8
14'3" to 15'9"	9
16'0" to 17'6"	10
17'9" to 18'0"	11



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