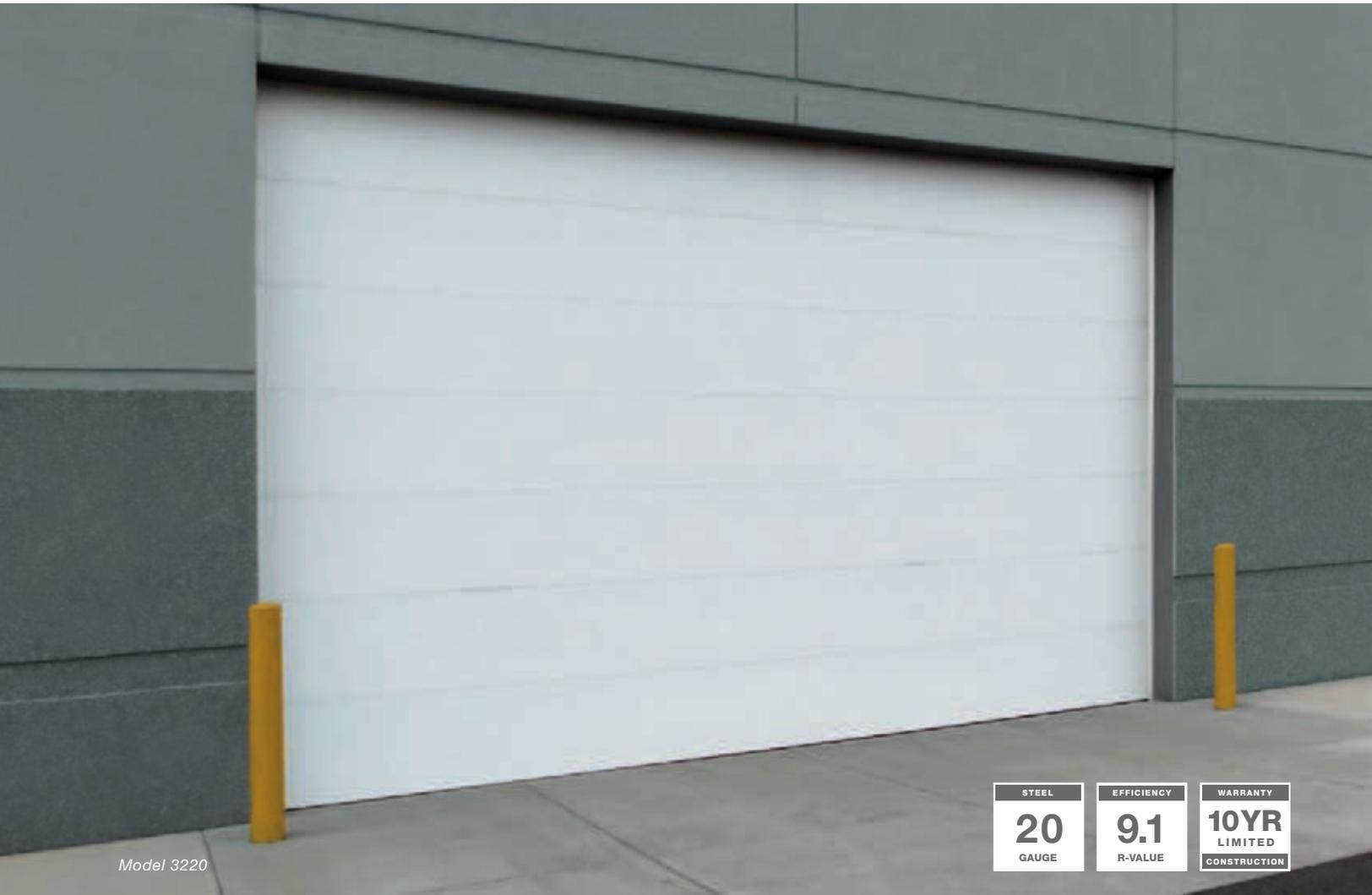


premium-duty polystyrene insulated

# FLUSH STEEL DOORS



Model 3220

STEEL	EFFICIENCY	WARRANTY
<b>20</b>	<b>9.1</b>	<b>10YR</b>
GAUGE	R-VALUE	LIMITED
		CONSTRUCTION

## FEATURES

- 2" (50.8 mm) thick sandwich construction consists of exterior and interior steel skins pressure bonded to an environmentally safe polystyrene core for greater strength and quieter operation.
- 20 gauge flush exterior steel skin.
- Panels are prepainted inside and out to inhibit rust. Hot-dipped, galvanized steel is painted with primer and given a tough oven-baked polyester top coat, to provide the most rust-resistant steel door available. Ten year warranty against rust-through.
- The premium Model 3220 is for commercial and industrial facilities where demanding conditions require a rugged door that is also energy efficient.
- Both steel skins are separated by a continuous silicone filling to form an efficient thermal break.
- Tongue-and-groove section joint for exceptional strength and thermal sealing.



Flush Panel Design



Rust-Resistant

# premium-duty polystyrene insulated FLUSH STEEL DOORS

**Quality Assurance** – Doors shall be insulated 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, hardware (list options) to suit the opening and headroom available. Standard maximum door width to 32'2" (9.8 m). Standard maximum door height to 24' (7.3 m). Consult CIA for large sized doors.

**Materials and Construction** – Sections shall be 2" (50.8 mm) thick sandwich construction consisting of stucco embossed exterior and interior steel skins pressure bonded to an expanded polystyrene core. Both steel skins to be separated by a continuous silicone filling forming a thermal break. Steel skins shall be roll formed commercial quality hot-dipped galvanized per ASTM A-924, A-653, phosphate coated, prepainted with primer and baked-on polyester top coat. Door sections constructed of full 20 gauge (.034" min.) (.86 mm) exterior and 28 gauge (.015" min.) (.38 mm) interior skins. All stiles engineered for easy hardware attachment through prepunched holes. Single end stiles shall be 18 gauge (.045") (1.1 mm) galvanized steel. 16 gauge (.056" min.) (1.4 mm) double end stiles as required. 19 gauge galvanized steel support plates located under each hinge location, prepunched for hinge attachment. Full length .050" (1.3 mm) aluminum astragal retainer. Astragal to be U-shaped flexible PVC vinyl. Section joint to form weather-tight tongue-and-groove joint. Galvanized steel step plate/lift handle provided on bottom section.

**Energy Values** – R-value = 9.1\*  
\*Calculated door section R-value is in accordance with DASMA TDS-163.

**Finish** – Exterior and interior steel skins prefinished with a one full mil 3-coat process of a baked-on polyester top coat over primer on a phosphate coating. White or brown exterior, white interior. FINISH GUARANTEED AGAINST RUST-THROUGH FOR TEN (10) YEARS, SECTIONS AGAINST DELAMINATION FOR FIVE (5) YEARS.

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

**Tracks** – 2" (50.8 mm) or 3" (76.2 mm) tracks as required. Vertical tracks to be 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 steel angles as required. 3" (76.2 mm) track is 12 gauge.

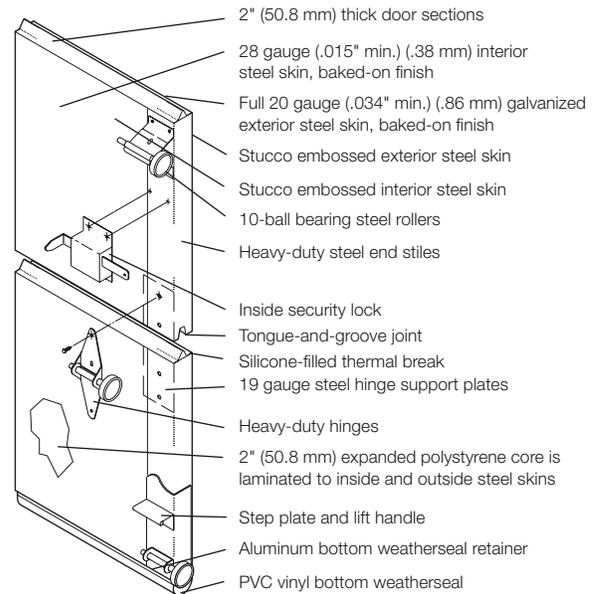
**Spring Counterbalance** – Door assembly to be operated by a torsion spring counterbalance mechanism, with a helically wound oil tempered torsion spring mounted on a galvanized steel tube or solid steel shaft as required. Cable drums are die cast aluminum. Lift cables are high strength, galvanized aircraft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

**OPTIONS**

- A. Glazing** – 24" x 8" (61 cm x 20.3 cm) or 24" x 12" (61 cm x 30.5 cm) window lites of polypropylene frame construction. Outside frame color to match panel. Glazing options include 1" (25.4 mm) nominal insulated, 1" (25.4 mm) nominal insulated tempered or, 1/4" (6.4 mm) tempered glazing options. Full vision section, prepainted white or brown; glazing options include 1/8" (3.2 mm) DSB, 1/8" (3.2 mm) plexiglass, 1/4" (6.4 mm) wire, and 1/2" (12.7 mm) insulated glass. Consult Commercial Information Assistance at 1-800-526-4301 for specific applications.
- B. High Cycle Spring** – Available in 25,000; 50,000; 100,000 cycles.
- C. Track** – Vertical lift, high lift, follow-the-roof slope and low headroom track available. 2" (50.8 mm) or 3" (76.2 mm) as required.
- D. Weatherstripping** – Complete perimeter seals available in various materials.
- E. Locking** – Five-pin cylinder lock with outside key, located at the first hinge location from right-hand side.
- F. Mullions** – Carry-away and roll-away available on doors to 14' (4.3 m) high [2" (50.8 mm) track only]. Swing-away available on doors to 20' (6.1 m) high [2" (50.8 mm) and 3" (76.2 mm) track].
- G. Pass Door** – Available 32" (81.3 cm) wide, maximum 16'2" (4.9 m) wide sections.
- H. Break-Away Bottom Section** – Single section available up to 20' 2" (6.2 m) wide on doors with full vertical lift track or high lift track with minimum of 36" (.91 m) of high lift. Double sections available up to 14' 2" (4.3 m) wide on doors with full vertical lift track or high lift track with minimum of 60" (1.5 m) of high lift.



SECTION ARRANGEMENT		WINDOW OPTIONS (24" x 8" or 24" x 12")	
Door Height	Number of Sections	Door Width	Max. Number of Window Lites
Up to 8'0"	4	Up to 9'2"	2
8'3" to 10'0"	5	9'4" to 13'2"	3
10'3" to 12'0"	6	13'4" to 16'2"	4
12'3" to 14'0"	7	16'4" to 20'2"	5
14'3" to 16'0"	8	20'4" to 24'2"	6
16'3" to 18'0"	9	24'4" to 26'2"	7
18'3" to 20'0"	10		
20'3" to 22'0"	11		
22'3" to 24'0"	12		

DISTRIBUTED BY:

For special applications and options, consult Commercial Information Assistance (CIA) at 1-800-526-4301.



For more information on these and other Clopay products, call 1-800-526-4301 or visit [www.clopaycommercial.com](http://www.clopaycommercial.com)

