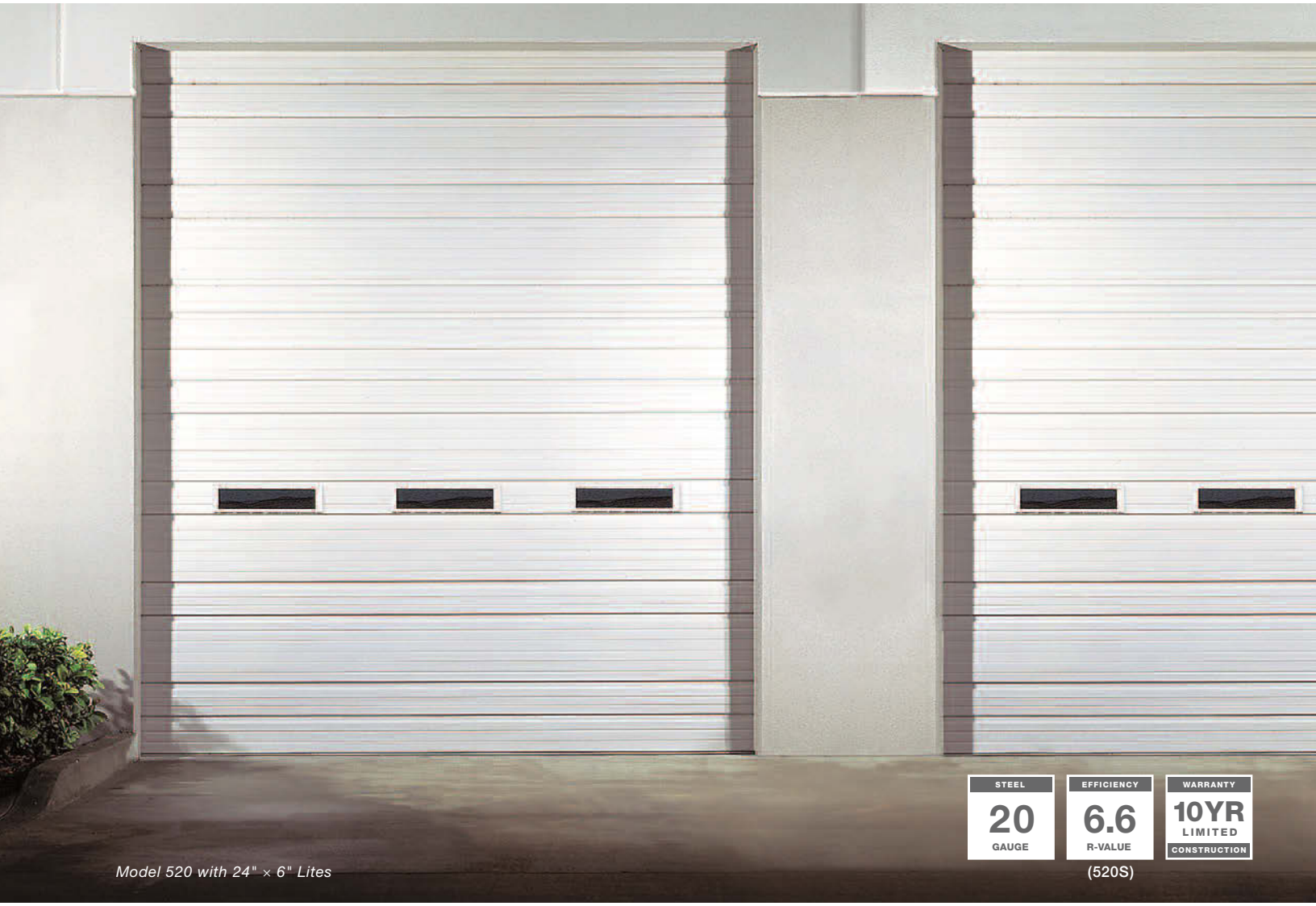
Clopay®
COMMERCIAL

premium-duty

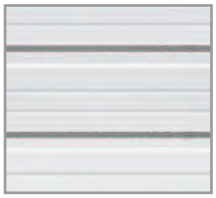
RIBBED STEEL DOORS



Model 520 with 24" × 6" Lites

FEATURES

- 2" (50.8 mm) thick sectional steel ribbed door.
- Full 20 gauge, heavy-duty steel skins are hot-dipped galvanized, coated inside and out with an epoxy primer and finished with a baked-on white or brown polyester top coat for maintenance-free performance.
- Available non-insulated (520) or insulated (520S) with environmentally safe expanded polystyrene molded to the section with a 30 gauge prepainted steel back cover.
- Durable rust-proof Tog-L-Loc® construction eliminates rivets and welds.
- Many optional window and track configurations available.
- Ideal in commercial and industrial building applications.



Ribbed Panel Design

Rust-Resistant

premium-duty

RIBBED 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 door width to 30'2" (9.2 m). Standard maximum door height to 24'0" (7.3 m). Consult CIA for large sized doors.

Materials and Construction – Sections shall be 2" (50.8 mm) thick roll formed commercial quality 20 gauge (.034" min.) (.86 mm) steel, hot-dipped galvanized per ASTM A-924, A-653, phosphate coated, prepainted with primer and baked-on polyester top coat. Two 1/2" (12.7 mm) deep reinforcing ribs on 8" (20.3 cm) centers complemented by six 1/8" (3.2 mm) beads on 2" (50.8 mm) centers. Galvanized turn-down end stiles to wrap face of section by full 1-3/8" (34.9 mm). Minimum 18 gauge (.049" min.) (1.3 mm) end stiles up to 14'2" (4.3 m); over 14'2" (4.3 m) have 16 gauge (.061" min.) (1.6 mm) as standard. All stiles engineered for easy hardware attachment through prepunched holes. All turn-down center stiles 18 gauge galvanized. Stiles and face panels shall be fastened with Tog-L-Loc® joining system. Bottom section reinforced with full length .040" (1.02 mm) aluminum astragal retainer. Astragal to be U-shaped flexible PVC vinyl. Meeting rails to form weather-tight 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. White or brown standard colors. 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 bearing steel rollers to be full floating in case-hardened steel races, mounted to fit the taper of the track.

Tracks – 2" (50.8 mm) and 3" (76.2 mm) 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 angles as required. 3" (76.2 mm) 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	Door Type	Section Backing Material Options	Polystyrene Thickness	Section R-Value
520S	20 gauge std.	30 gauge prepainted steel	1-3/8"	6.6*

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

PANEL AND WINDOW ARRANGEMENT

Door Width	Number of Panels	Max. Number of Window Lites
Up to 9'2"	2	2
9'4" to 13'2"	3	3
13'4" to 16'2"	4	4
16'4" to 20'2"	5	5
20'4" to 24'2"	6	6
24'4" to 26'2"	8	8

SECTION ARRANGEMENT

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

OPTIONS

A. Insulation (see chart below) – Maximize energy efficiency with polystyrene insulation. Steel backers (520S) on door interior for durability. Polystyrene foam to have fire retardant additive to meet UL R-8194A.

B. Glazing – 24" × 6" (61 cm × 15.2 cm) or 24" × 12" (61 cm x 30.5 cm) window lite with polypropylene screw together frame or full vision section available to match door exterior. Glazing options for Model 520 include 1/8" (3.2 mm) DSB glass, 1/8" (3.2 mm) plexiglass and 1/4" (6.4 mm) wire glass. Double pane insulated windows are available for Model 520S. Prepainted full-view section with white or brown finish available with 1/8" (3.2 mm) DSB glass, 1/8" (3.2 mm) plexiglass, 1/4" (6.4 mm) wire glass or 1/2" (12.7 mm) insulated glass.

C. Pass Door – Pass door, 2'8" (.81 m) wide and 6'3" (1.9 m) to 6'8" (2.03 m) high from floors, minimum. 8' (2.4 m) to maximum 16'2" (4.9 m) door wide and minimum 8' (2.4 m) to maximum 16' (4.9 m) high, for 520 and 520S. Not available with standard lift or low headroom track. Minimum of 60" (1.5 m) required for high lift track.

D. Locking – Five-pin cylinder lock with outside key, a 16-1/2" (41.9 cm) inside lock bar engaging slot in track.

E. High Cycle Spring – Available in 25,000; 50,000; 100,000 cycles.

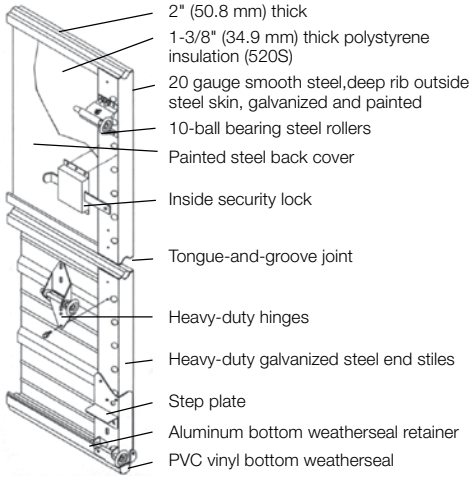
F. Tongue-and-Groove Seal – Available foam strips can be field applied to stop air infiltration.

G. Mullions – Carry-away and roll-away available on doors to 14' (4.3 m) high [2" (50.8 mm) track only]. Swing-up mullion available for 2" (50.8 mm) or 3" (76.2 mm) track.

H. 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.

I. Weatherstripping – Complete perimeter seals available in various materials.

J. Break-Away Bottom Sections – 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 10' 2" (3.1 m) wide on doors with full vertical lift track or high lift track with minimum of 60" (1.5 m) of high lift.



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

Clopay®

For more information on these and other Clopay products, call **1-800-526-4301** or visit **www.clopaycommercial.com**

REGISTERED COMPANY ISO 9001:2008

STEEL

ARCAT

DASMA Door & Access Systems Manufacturers Association International

See us in Sweet's CD CD\CAD Online Catalog Files

IDA www.doors.org

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