

Quality Assurance – Doors shall be steel sectional overhead type as manufactured by Ideal Door, a division of 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 26'2" wide x 20'0" high (consult factory for larger size options).

Materials and Construction – C0 sections shall be 2" thick roll formed commercial quality 20 gauge (.034" min.) gauge steel. Sections shall be hot-dipped galvanized per ASTM A-924, A-653, phosphate coated, prepainted with primer and baked-on polyester top coat. Two 1/2" deep reinforced rib on 8" centers complemented by six 1/8" beads on 2" centers. Minimum 18 gauge (.045) Galvanized turn-down end stiles. Minimum 16 gauge (.059) on doors 14'3" and wider. All stiles are engineered for easy hardware attachment through prepunched holes. All center stiles are turn-down 18 gauge galvanized. Stiles and face panels shall be fastened with patented Tog-L-Lock joining system. Bottom astragal to be U shaped flexible PVC vinyl attached to full length .040" aluminum astragal retainer. Meeting rails to form weathertight tongue and groove joint. Polyurethane foam strips applied to the end stiles to prevent air and light infiltration.

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 A FULL FIVE YEARS.

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

Tracks – 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. 2" or 3" track as required by size and weight of door.

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 with high strength galvanized aircraft cable with minimum 7 to 1 safety factor.

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

Wind Loading – Contact factory for specific wind load requirements.

OPTIONS

- A. Insulation** (see chart below) – Maximize energy efficiency with polystyrene insulation. Steel backers (COSS) on door interior for durability.
- B. Glazing** – 24" x 6" and 24" x 12" windows with polypropylene plastic frame to match color of door or full vision available. Glazing options include SSB glass 1/8" plexiglass and 1/4" wire glass on non-insulated product. 1/2" insulated glass on insulated doors. Aluminum full vision sections available with 1/8" DSB or plexiglass, 1/4" tempered, wire, or plexiglass, and 1/2" insulated glass. Consult factory for other options.
- C. Locking** – Five pin cylinder outside keyed lock with lock bar engaging track on one or both sides of door or "snaplatch" locking with spring loaded locks engaging track available.
- D. High Cycle Spring** – Available in 25,000; 50,000; 100,000 cycle. (Consult factory for availability.)
- E. Mullions** – Carry-away and rollaway available on doors to 14' high (2" track only). Swing up mullion available for larger sizes (consult factory).
- F. Track** – Vertical lift, high lift, follow the roof slope and low headroom track available.
- G. Weatherstripping** – Complete perimeter seals available in various materials.
- H. Installation** – Install door including sections, brackets, guides, tracks, etc. in accordance with final shop drawing (if required) and instructions by Ideal Door Company.

SECTION ARRANGEMENT

Door Height	# 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

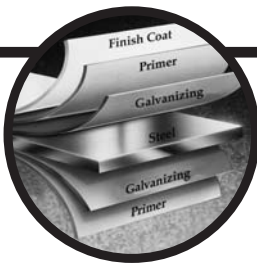
WINDOW & PANEL OPTIONS

Door Width	# of Panels	Max # of Window Lites
Up to 9'2"	2	2
9'4" to 12'2"	3	3
12'4" to 16'2"	4	4
16'4" to 20'2"	5	5
20'4" to 24'2"	6	6
24'2" to 28'2"	8	8

INSULATION OPTIONS

Model #	Exterior Gauge	Section backer material	Polystyrene Thickness	Section R-Value	Section U-Value
COSS	20 GA. (.034")	.012" Steel *	1 3/8"	6.66	.15

*Optional .022 steel backer available.



Rustproof—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. Five year warranty against rust-through.

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