

Tough Tek Metals • 800-331-8200 • Fax 563-538-4392 • www.toughtekmetals.com
Model 604 Steel Security Storm Door

SCOPE

To furnish Tubular Steel Frame Self-Storing Storm Doors with hardware, door closures, an adjustable sill sweep, a unique pre-hung frame liner with integrally mounted weather seal, and a Security Guard as manufactured by Lansing Housing Products dba Tough Tek Metals.

GENERAL

1. Materials - Master frame is 18 gauge zinc impregnated (G-90) 1" x 2" steel tube on the top, bottom and sides. Miter Corners fully welded and ground smooth.
2. Two(2) horizontal mullions of 18 gauge (G-90) 1" x 2" steel tube fully welded into the master frame jambs and Ground smooth.
3. The center panel is 18 gauge galvanealed steel formed to fit between the mullions and secured with 18 gauge steel angles. This center panel will position the mail slot where needed when it is required.
4. Security grill consists of 18 ga. Perforated material with a 63% open area, formed to fit between the door frame and mullions. Providing complete coverage to the exterior face of the door frame, covering the upper and lower glass portions of the door.
5. The security screen can also consist of .028, .023 or .018 stainless steel in place of the perforated screen material to protect the glass area.
6. Standard aluminum frame liner shall be extruded from 6063 Alloy -T5, nominal .050" thick walls for durability.
7. The head and side frame liners shall be designed to receive a flexible weather seal for protection against inclement weather and dust infiltration. The head frame liner shall be so designed and extruded to also function as a drip cap over the top of the door.
8. The door shall be manufactured with six (6) hinges. Leaf hinges of stainless steel shall be integrally assembled into the Z-bar frame liner with stainless steel pins pivoting on oil-lite bronze bushings to prevent wear and assure door alignment.
9. The bottom of the doors shall have a 6063-T5 aluminum extrusion that will accept a durable vinyl plastic door sweep.

CONSTRUCTION

1. The tubular frame is prepared with miter corners that are fully welded on both sides. The security guard material is formed and secured with 18ga. Angles. No exposed screw heads to the exterior.
2. The operational glass portion of this door incorporates a self-storing aluminum operating window, both sashes are glazed with 1/8" clear tempered glass. The tempered safety glass insert frames shall have a miter joint construction, machine fitted and fastened at each corner by staking into die cast corners.
3. The operable glass insert shall move up and down with multi-stop positions for desired air infiltration. Both upper and lower sashes will overlap each other at the meeting rail.
4. The lower portion of the consists of a kickpanel area, divided with a 1"x2" center mullion, the kickpanels are 18ga.
5. Optional: The lower portion of the door will contain a tempered safety glass insert that is removable for repair. The insert frame is manufactured of galvanealed roll form material, secured into place by wing clips. This insert shall be located between the center panel section containing the mail slot and door threshold location.
6. Optional: Mailslot when specified. Spring loaded, front entry doors only. Letter slot will be preinstalled to 40" above sill line per specification.
7. When specified, a Yale 112 keyed Heavy duty deadbolt with an interchangeable key cylinder is provided along with a standard inside/outside push button or lever handle storm door set. The heavy duty deadbolt latches on the z-bar of the door, allowing installation without the need to cut holes in the steel door frames to accept the latch bolts or other styles of locksets.

FINISH

1. All exposed surfaces of all metal parts shall be free of surface blemishes. All sections either assembled or fabricated in factory shall have 4 wash coats and finish coat applied after such assemble or fabrication is completed.
2. All prefinish treatments and wash coats shall be bake over processed at 400°F. Air dry finish shall be unacceptable as offering an inferior finish for high density usage.
3. All exposed areas of stainless wire cloth and frames shall have a chemical pre-treatment process applied with a finish of polyester powder coat paint, electrostatically applied and cured to a hard durable finish. Powder coat paint finish shall be a minimum of 1.5 mil thickness.

INSTALLATION KIT

An installation kit shall be furnished with each door. The kit shall include all necessary black zinc plated steel Phillips head screws, heavy duty wind chain and heavy duty pneumatic door closer for increased latching power. Alternative types of screw drives are also available depending on the installation application. Color matched screws head also are available.