Model 500 Steel Self-Storing Storm Door with Security Screen * Pre-Hung

SCOPE

To furnish Steel Framed Self-Storing Storm Doors with hardware, door closures, durable kick panel(s), an adjustable sill sweep, a unique pre-hung frame liner with integrally mounted weather seal, and a Stainless Steel Security Screen as manufactured by Lansing Housing Products dba Tough Tek Metals.

GENERAL

1. Materials - The master frame shall be of roll formed, tubular, lock-seam construction formed from 22 gauge hot-dipped, zinc impregnated, galvannealed steel. All roll formed profiles shall be engineered with specific and exclusive use as component parts for door fabrication.
2. Frame liners and door sweeps shall be formed from 6063-T5 aluminum.
3. The kick panel shall be of 18 gauge galvannealed sheet steel, embossed for added rigidity.
4. Frame liner shall be of extruded aluminum. 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.
5. The door shall be manufactured with not less than four (4) hinges. Leaf hinges shall be 430 stainless steel alloy, .072 wall thickness and shall be integrally assembled into the Z-bar frame liner with stainless steel pins pivoting on oil-lite bronze bushings.
6. The bottom of the doors shall have an aluminum extrusion that will accept a durable vinyl plastic door sweep, adjustable to a minimum of one (1) inch.

CONSTRUCTION

1. The hollow master frame of the door shall be of miter joint construction, rigidly fastened with 16 gauge gussets. The corners are uniformly welded on both the inside and outside edge.
2. The transom rail shall be of roll-formed tubular, lock seam, 22 gauge galvannealed steel, accurately machined to fit the frame and rigidly affixed to both sides of the door. The kick plate(s) shall be form fitted and secured at the top and bottom. 18 gauge spline shall be attached on both sides of kick plate(s) for added rigidity.
3. The tempered safety glass steel insert frames shall be of mitered joint construction, machine fitted and fastened at each corner by staking into die cast corner gussets.
4. Glazing shall be of virgin polyvinyl plastic to permit easy replacement of glass. Weatherstripping shall be used to prevent rattle and insect passage as well as to provide for positive contact between inserts and main frame.
5. The lower 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.

SCREENING

1. Screen frames shall be the TT200. An extruded aluminum frame with a jaw clamp design that is pressed with a 20 ton press to assure a positive lock on the stainless steel screen, tested to withstand a 60 lb impact. The frame shall be of miter joint construction and welded at the corners.
2. Stainless steel wire mesh of .023" or .028 diameter shall be made an integral part of the screen insert as required. Material shall be alloy 304 stainless steel.

FINISH

1. All exposed surfaces of all metal parts shall be free of surface blemishes. All sections either assembled or fabricated in factory, shall be properly cleaned prior to powder coat paint.
2. All prefinish treatments and wash coats shall be bake oven processed at 400 degrees 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 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 zinc plated steel Phillips head screws, adjustable door closer, chain with hold up spring, push button type latch and brochure describing detailed installation procedures.