

Architectural Specifications

Model: 3" ThermoGuard™

I. GENERAL

A. WORK INCLUDED

The doors will be Model 3" ThermoGuard as manufactured by Midland Garage Door Mfg. Co.

B. OTHER WORK

Related structure work, opening preparation, field painting and electrical work etc. falls into the responsibility of other trades.

II. PRODUCT

A. SECTIONS

Sections will be roll-formed, hot dipped, galvanized G60 (minimum), a minimum yield strength of 33,000 psi, complying with ASTM A-653 and ASTM A924, 27 ga. (0.016 inch) flush embossed pebble textured exterior and interior surfaces (optional 20 ga. exteriors and/or interior available). Sections will be foamed in place with polyurethane insulation and will have a thickness of 3". Sections will incorporate a continuous dual durometer vinyl extrusion thermal break, separating exterior skins preventing conductivity.

B. INSULATION

Insulation will be 3" polyurethane that will be foamed in place to the interior and exterior skins. The insulation will have a calculated R-Value of 26.00 and U-Value of .038 complying with ASTM C236. Insulation material complying with ASTM E84 flame-spread and smoke-developed.

C. AIR INFILTRATION

Air infiltration complying with ASTM E283 Maximum rate: 0.08 cfm@15mph and 0.13 cfm@25mph.

D. WINDLOAD

Doors will be tested in accordance with ANSI/DASMA 108-2012. Structural performance will meet or exceed industry guidelines in IBC 2000-2015 for exposure B category & risk factor II buildings. Consult factory for other requirements.

E. END STILES

End stiles will be 16 gauge (13 gauge optional) steel and incorporate a polypropylene thermal break to help prevent conductivity between the steel skins and doorframe.

F. HARDWARE

Hinges and fixtures will be G60 galvanized steel complying with ASTM A36 and ASTM A123. Full floating 10-ball bearing rollers with hardened steel races. Roller sizes will be adequate for design requirements and limitations.

G. TRACK

Track is 2" or 3" depending upon door size and requirements. Angle-mounted track floor to header.

H. SPRING COUNTERBALANCE

Counterbalance shall be oil tempered, helical wound torsion springs complying with ASTM A229, mounted on a ball bearing cross header shaft engineered to comply with ANSI/DASMA102-2011. Long life springs of 25,000, 50,000 or 100,000 cycles may be specified. Galvanized aircraft type lifting cables with minimum safety factor of 8 to 1 and cast aluminum drums are standard.

I. LOCK

Lock will be interior mounted slide lock. (Optional commercial keyed lock is available.)

J. WEATHERSTRIP

PVC Weatherstrip between sections meeting rubber bulb seals fitted inside every joint. Bottom weatherstrip will be U-shape astragal fastened to the bottom of the door with an extruded aluminum holder for an effective seal at the sill.

K. FINISH

Exterior finishes will be 1-mil thick, two-coat baked-on polyester (.8 mil) top coat, over primer (.2 mil) on galvanized coating. White interior and 7 exterior color options (20 Ga. Exterior white only). Optional powdercoat finish and ColorSelect™ custom colors available.

L. OPERATION

Operation will be by manual pull rope. Optional chain hoist and electric operators are available.

III. EXECUTION

A. INSTALLATION

Doors should be installed in compliance with Midland Garage Door Mfg. Co. instructions by authorized Midland Garage Door Installation Professionals.

B. OPTIONS

- Thermal Glazing
- High Cycle Springs
- Jamb Weatherstrip
- Electric Operators
- Chain Hoist
- Bottom Sensing Edge
- Flexible PVC Dual Flap Header Seal
- Full Vision (white standard) Aluminum Sections