

## Model: 2" ES (26 Ga or 20 Ga Exterior)

### I. GENERAL

#### A. Work Included

The doors will be Model 2" ES 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 A653, ASTM A924, 26 ga. flush embossed pebble textured exterior and interior surfaces (optional 20 ga. exteriors available). Sections will be pressure bonded to a polystyrene core and will have a thickness of 2". Sections will incorporate a continuous flexible vinyl extrusion thermal break separating exterior skins preventing heat or cold conductivity.

#### B. Insulation

Insulation will be rigid 2" polystyrene free of CFCs and HCFCs and will be laminated to provide strength and prevent loss of thermal efficiency over time. The insulation will have a calculated R-Value of 9.25 and U-Value of 0.108 complying with ASTM A236. Insulation material complying with ASTM E84 flame-spread and smoke-developed.

#### C. Air Infiltration

Air infiltration complying with ASTM E283, shall not exceed maximum rate: 0.08 cfm@15mph.

#### D. Windload

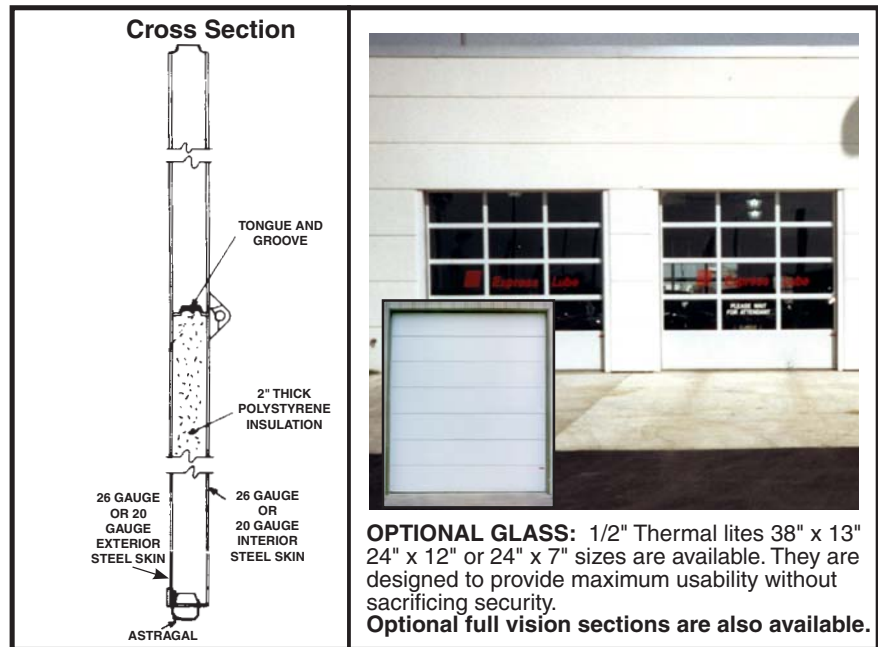
Doors will be designed to meet or exceed industry standards for windloads (ANSI/DASMA A102-1996), uniform pressure (velocity pressure) of 20 lbf/sq. ft. acting inward and outward. Deflection of door in the horizontal position will not exceed 1/120 of the door width. Consult factory for unusual requirements.

#### E. End Stiles

End stiles will be 16 gauge (13 gauge optional) steel and incorporate a vinyl thermal break to help prevent heat/cold conductivity between the inside and outside steel skins.

#### 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.



**OPTIONAL GLASS:** 1/2" Thermal lites 38" x 13" 24" x 12" or 24" x 7" sizes are available. They are designed to provide maximum usability without sacrificing security. **Optional full vision sections are also available.**

#### G. Track

Track is 2" or 3" depending upon door size and requirements. Bracket or angle mounted depending upon door size and requirements.

#### 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/DASMA 102-1996. Longer 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 strip between sections meeting section caps fitted inside every joint. Bottom weatherstrip will be U'd 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 white or brown exterior. (20 Ga. exterior white only) Optional powder-coat finish.

#### L. Operation

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

### III. EXECUTION

#### Installation

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

#### OPTIONS

- Thermal Glazing
- High Cycle Springs
- Jamb Weatherstrip
- Electric Operators
- Chain Hoist
- Bottom Sensing Edge
- Flexible PVC Dual Flap Header Seal
- Full Vision (white powder-coat) aluminum sections.



Pebble Texture Finish  
Exterior and Interior