



# Product Evaluation

GDR67 | 0315

Engineering Services Program

*The following product has been evaluated for compliance with the wind loads specified in the International Residential Code (IRC) and the International Building Code (IBC).*

*This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.*

*This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code, and the Texas Engineering Practice Act.*

*For more information, contact TDI Engineering Services Program at (800) 248-6032.*

**Evaluation ID:** GDR-67

**Effective Date:** March 1, 2015

**Re-evaluation Date:** March 2019

**Product Name:** Models 100/200 Residential Steel Sectional Garage Doors, Non-Impact Resistant

**Manufacturer:** Garage Door Services of Houston, Inc.  
1213 Pancho Street  
Lockhart, TX 78644  
(512) 376-7243

## General Description:

Garage Door Services models 100/200 are non-impact resistant, residential garage doors constructed from galvanized, pre-painted steel sections of either 21" or 24" height with wood overlay attached to the exterior. Windows are not available in these doors. All doors are reinforced horizontally with roll-formed galvanized steel struts (u-bars). This report includes individual, non-impact resistant garage doors based on the following tested series:

- **Model 100:** pan-style, residential garage doors with insulation and full-face wood overlay, built on a foundation of Windsor Republic Doors Model 724.
  - 25 gauge steel exterior skin
  - 2" thick steel door sections
  - 4" overall thickness with wood overlay
- **Model 200:** pan-style, residential garage doors with insulation and perimeter wood/fiberboard overlay, built on a foundation of Windsor Republic Doors Model 724.
  - 25 gauge steel exterior skin
  - 2" thick steel door sections
  - 2-3/8" overall thickness with wood/fiberboard overlay

**Hardware:**

- U-Bar Stiffeners (struts): Horizontal reinforcing U-shaped sections, 3" deep, 18-gauge galvanized steel (33 ksi minimum tensile strength) attached with two (2); 1/4" x 3/4" hex-head, self-drilling screws per stile.
- End Hinges: Secure 14-gauge galvanized steel hinges with four (4) or five (5); 1/4" x 1/2" sheet metal screws as shown on the drawings. Share one additional screw with an overlapping strut.
- Intermediate Hinges: Secure 14-gauge galvanized steel hinges with four (4); 1/4" x 1/2" sheet metal screws. Share one additional screw with an overlapping strut.
- Locks: residential slide locks or electrical operator.
- Stiles, center: 20-gauge galvanized steel.
- Stiles, end: 20-gauge galvanized steel with 13-gauge cap over the stiles.
- Tracks: Vertical tracks are made from 13-gauge, 2" wide, galvanized steel.
- Track Brackets: Track brackets are 13-gauge galvanized steel. The size and number of brackets required for each rail will vary with the size and pressure rating of the door assembly. Refer to the drawings referenced in Table 1 for bracket quantity and locations.
- Rollers: 2" diameter 10-ball steel long stem rollers. The drawings show locking collars added to roller stems.
- The door must overlap the structure, or have stop molding attached with minimum 6d nails or screws (no "finishing nails") on 6" spacing, to provide a 7/16" overlap of the side edges of the door.

**Glazing:** Glazing is not available in these doors.

**Product Identification:** The doors have a warranty/warning label applied during manufacturing that includes the manufacturer's name and the Series/Model number for the door. Also, the door has a second label, applied by the installer, that includes the manufacturer's name and the design pressure rating for the door.

**Limitations:**

**Impact protection:** Series 100/200 model doors have not been tested for windborne debris resistance. Do not install these models in the Seaward Zone unless providing an impact protection system.

**Installation:**

**General:** Install these doors in accordance with the manufacturer's published installation instructions, engineering drawings, (stamped and signed, sealed, and dated by John E. Scates, P.E. on December 7, 2010,) and this product evaluation report. Keep these instructions available at the job site during installation. The information within this report specifies if there are any conflicts between the manufacturer's instructions and this evaluation report. Interior reinforcement hardware configurations vary based on the garage door dimensions and wind pressure requirements. Refer to Table 1 for maximum allowable door dimensions, allowable design pressures, and applicable drawings. The drawing shows the required reinforcement configurations:

- **Design Drawing:** "Hurricane Series 100/200 Residential Pan Doors With Face Wood or Smart Trim," Drawing No.GDS-13-01, sheets 1 through 2, dated 10/06/10, signed and sealed by John E. Scates, P.E., on December 7, 2010.

**Attachment of Doors to Wall Framing:** Attach the door track brackets either directly to the wall framing or to minimum 2x6 Spruce-Pine-Fir wood jambs secured to the wall framing. the Jamb Attachment Schedule Drawing, drawing number 99-A-090A, sheets 1 through 2, release drawing, dated March 5, 2008 specify the allowable methods of attachment and illustrations of the allowable methods of attachment. The drawing was signed and sealed by John E. Scates, P.E., on March 22, 2011.

**Note:** Keep the manufacturer's installation instructions and the appropriate design drawings, signed by John E. Scates, P.E. available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.

**Table 1. Residential Garage Doors, Steel with Wood Overlay, Models 100 & 200**

Max Door Width	Max Door Height	Max Section Height	Horizontal Reinforcement Pieces	Center Stiles per Section	Design Pressures (psf)	Drawing Number and Sheet
8'-0"	10'-0"	24"	Two (2); 3"x18-ga struts on each section	1	+46.4 / -52.6	GDS-13-01 Sheet 1
9'-0"	10'-0"	24"	Two (2); 3"x18-ga struts on each section	1	+41.2 / -46.8	GDS-13-01 Sheet 1
10'-0"	10'-0"	24"	Two (2); 3"x18-ga struts on each section	2	+37.1 / -42.1	GDS-13-01 Sheet 1
12'-0"	10'-0"	24"	Two (2); 3"x18-ga struts on each section	3	+25.8 / -29.2	GDS-13-01 Sheet 1
14'-0"	10'-0"	24"	Three (3); 3"x18-ga bottom Two (2); 3"x18-ga others	6	+41.0 / -50.9	GDS-13-01 Sheet 2
16'-0"	10'-0"	24"	Three (3); 3"x18-ga bottom Two (2); 3"x18-ga others	7	+35.9 / -44.5	GDS-13-01 Sheet 2
18'-0"	10'-0"	24"	Three (3); 3"x18-ga bottom Two (2); 3"x18-ga others	7	+31.9 / -39.6	GDS-13-01 Sheet 2