

TEXAS DEPARTMENT OF INSURANCE

Engineering Services Program / MC 103-3A 333 Guadalupe Street P.O. Box 149104 Austin, Texas 78714-9104
Phone No. (512) 322-2212 Fax No. (512) 463-6693

PRODUCT EVALUATION
DR-291

Effective Date: September 1, 2012
Reevaluation Date: **April 2015**

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.

Series 7901 Wood French Hinged Inswing and Outswing Glazed Doors, Impact Resistant, manufactured by

Simpson Door Company
400 Simpson Avenue
McCreary, Washington 98557
Telephone: (800) 356-4423

General Description:

System	Description	Design Pressure Rating
1	Series 7901 Wood French Hinged Inswing Doors; (O)	+52.5/-52.5 psf
2	Series 7901 Wood French Hinged Outswing Doors; (O)	+52.5/-52.5 psf

Product Dimensions:

System	Overall Size	Active/Passive Panel Size	Panel Daylight Opening Size
1	74 $\frac{5}{8}$ " x 97 $\frac{3}{4}$ "	36" x 96"	27" x 82 $\frac{3}{8}$ "
2	74 $\frac{5}{8}$ " x 97 $\frac{3}{4}$ "	36" x 96"	27" x 82 $\frac{3}{8}$ "

Hardware:

- 4" knuckle butt hinge; Eight (8) required (four (4) per door slab); Located 7 inches from each end and 26.5 inches on center of the active and inactive panel hinge stiles. Hinges attached to the door slab with four (4) No. 9 x $\frac{3}{4}$ " screws and to the door frame with two (2) No. 9 x $\frac{3}{4}$ " screws.
- Two-point lock; Located on the active panel; Consists of the handle and lockset throw bolt. Located 36 inches from the door panel bottom rail.
- Deadbolt; One (1) required; Located on the active panel. Located 42 $\frac{1}{2}$ inches from the panel bottom rail.
- Handle set and deadlock keepers; One (1) required; Attached to the T-astragal with two (2) No. 10 x 2 $\frac{1}{4}$ screws per corner.
- H.B. Ives Model B253 brass surface bolts; Two (2) required; Located at the top and bottom of each door panel lock stile. The surface bolt slides between two slide collars and engages the keeper at the interior of the frame head and sill.

Hardware (continued):

- Slide collars; Two (2) per surface bolt; Attached to the door panels with two (2) No. 6 x 1 ½” screws per collar.
- Keepers; One (1) per surface bolt; Attached to the door frame with two (2) No. 9 x 2 ¼” screws per keeper.
- Integral surface bolts (inactive panel); Two (2) required; Each attached to the inactive panel with two (2) No. 9 x 1 ½” screws.
- Bolt keepers (inactive panel); One (1) per integral surface bolt; Attached to the door frame head and sill with two (2) No. 9 x 2 ¼” screws per keeper.

Product Identification (Manufacturer Label on Door):

System		
1-2	Certification Agency	N/A
	Manufacturer’s Name or Code Name	Simpson Door Company
	Product Name	7901 Wood French Inswing and Outswing Doors
	Test Standards	ASTM E 330, ASTM E 1886, ASTM E 1996

Impact Resistance:

Impact Resistant	Requirement
Yes	These products satisfy the Texas Department of Insurance’s criteria for protection from windborne debris in the Inland I and Seaward zone . The assemblies may be installed at any height on the structure as long as the design pressure rating for the assemblies is not exceeded.

Installation: The wall framing shall be minimum Southern Yellow Pine lumber. The door frame is secured to the wall framing with minimum No. 9 x 3” screws using the door hinges on both the active and inactive door panels. Two (2) screws are required per hinge through the door frame and into the wall framing. In addition, on both the active and inactive doors, two (2) No. 9 x 2 ¼” screws are required per surface bolt keeper through the door frame head and sill and into the wall framing. The sill shall be secured to the floor with sealant. All fasteners shall be long enough to penetrate a minimum of 1 ½ inches into the framing members.

Note: The manufacturer’s installation instructions shall be available on the job site during installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.