



# Product Evaluation

DR745 | 0116

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:** DR-745

**Effective Date:** January 1, 2016

**Re-evaluation Date:** January 2020

**Product Name:** 9'-2" Glazed Iron Entry Doors, Inswing, Singles and Doubles, Impact Resistant

**Manufacturer:** Iron Doors Unlimited  
5000 Kimberly Way  
Loudon, TN 37774  
(865) 392-4679

### General Description:

| System | Description                                          | Design Pressure Rating | Drawing Number |
|--------|------------------------------------------------------|------------------------|----------------|
| 1      | 3'-3" x 9'-2" Glazed Iron Single Door; Inswing; (X)  | Inswing +70/-70 psf    | TX-4528        |
| 2      | 6'-2" x 9'-2" Glazed Iron Double Door; Inswing; (XX) | Inswing +70/-70 psf    | TX-4529        |

### Product Dimensions – Doors:

| System | Overall Size  | Panel Size    | Daylight Opening Size |
|--------|---------------|---------------|-----------------------|
| 1      | 39.25" x 110" | 34.84" x 106" | 19.5" x 93.875"       |
| 2      | 74" x 110"    | 34.84" x 106" | 19.5" x 93.875"       |

**Components and Hardware:**

| System | Component                                     | Quantity | Attachment Method                                                                                                                                                              |
|--------|-----------------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | 6" Steel Barrel Hinges                        | 2        | Hardware must be installed in accordance with Iron Doors Unlimited drawings TX-4528, dated February 2, 2015, signed and sealed by Lyndon F. Schmidt, P.E. on February 4, 2015. |
|        | Ives SB 360 Surface Bolts                     | 2        |                                                                                                                                                                                |
|        | HUAN Handle Set w/ Deadbolt Lock (HN 8669-BA) | 1 each   |                                                                                                                                                                                |
| 2      | 6" Steel Barrel Hinges                        | 2        | Hardware must be installed in accordance with Iron Doors Unlimited drawings TX-4529, dated February 2, 2015, signed and sealed by Lyndon F. Schmidt, P.E. on February 4, 2015. |
|        | Ives SB 360 Surface Bolts                     | 2        |                                                                                                                                                                                |
|        | HUAN Handle Set w/ Deadbolt Lock (HN 8669-BA) | 1 each   |                                                                                                                                                                                |

**Product Identification (Certification Agency Label on Door):**

| System |                                  |                                                      |
|--------|----------------------------------|------------------------------------------------------|
| 1      | Certification Agency             | Self-labeled by manufacturer                         |
|        | Manufacturer's Name or Code Name | Iron Doors Unlimited                                 |
|        | Product Name                     | 3'-3" x 9'-2" Glazed Iron Single Door; Inswing; (X)  |
|        | Drawing                          | TX-4528                                              |
|        | Test Standards                   | ASTM E 330-02                                        |
| 2      | Certification Agency             | Self-labeled by manufacturer                         |
|        | Manufacturer's Name or Code Name | Iron Doors Unlimited                                 |
|        | Product Name                     | 6'-2" x 9'-2" Glazed Iron Double Door; Inswing; (XX) |
|        | Drawing                          | TX-4529                                              |
|        | Test Standards                   | ASTM E 330-02                                        |

**Impact Resistance:**

| System | Impact Resistant | Requirement                                                                                                                                                                                                                  |
|--------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1-2    | Yes              | The doors satisfy TDI's criteria for protection from windborne debris in the Inland I and Seaward zone. Install the doors at any height on the structure that does not exceed the design pressure rating for the assemblies. |

**Installation:**

| System     |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                          |      |            |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|
| 1-2        | Type of Installation                                                                                                                                                                                     | Door Frame                                                                                                                                                                                                                                                                                                                                                            |      |                                                                                                                                                                                                          |      |            |
|            | Wall Framing                                                                                                                                                                                             | Wood (G $\geq$ 0.42)<br>Concrete (minimum 3,000 psi)                                                                                                                                                                                                                                                                                                                  |      |                                                                                                                                                                                                          |      |            |
|            | Fasteners                                                                                                                                                                                                | Wood: Minimum 5/16" lag screws<br>Concrete: Minimum 1/4" ELCO or ITW concrete screw                                                                                                                                                                                                                                                                                   |      |                                                                                                                                                                                                          |      |            |
|            | Fastener Embedment                                                                                                                                                                                       | Wood: Minimum of 3" into the wall framing<br>Concrete: Minimum of 1.25" into the concrete                                                                                                                                                                                                                                                                             |      |                                                                                                                                                                                                          |      |            |
|            | Fastener Location/Spacing                                                                                                                                                                                | <table border="1"> <tr> <td>Head</td> <td rowspan="4">The doors must be installed and anchored in accordance with Iron Doors Unlimited drawings TX-4528 and TX-4529, dated February 2, 2015, signed and sealed by Lyndon F. Schmidt, P.E. on February 4, 2015.</td> </tr> <tr> <td>Sill</td> </tr> <tr> <td>Side Jambs</td> </tr> <tr> <td>Hinges</td> </tr> </table> | Head | The doors must be installed and anchored in accordance with Iron Doors Unlimited drawings TX-4528 and TX-4529, dated February 2, 2015, signed and sealed by Lyndon F. Schmidt, P.E. on February 4, 2015. | Sill | Side Jambs |
| Head       | The doors must be installed and anchored in accordance with Iron Doors Unlimited drawings TX-4528 and TX-4529, dated February 2, 2015, signed and sealed by Lyndon F. Schmidt, P.E. on February 4, 2015. |                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                          |      |            |
| Sill       |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                          |      |            |
| Side Jambs |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                          |      |            |
| Hinges     |                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                                                                                                                                                          |      |            |

Note: Keep the manufacturer's installation instructions available on the job site during installation. Use corrosion resistant fasteners as specified in the IRC, the IBC, and the Texas Revisions.