

Product Evaluation Report

Golden Giant, Inc.

Steel Slider Exterior Door

Florida Product Approval # FL 4641

Florida Building Code 2023, 8th Edition

Per Rule 9N-3

Method: 1 –D

Category: Exterior Doors

Subcategory: Sliding Exterior Door Assemblies

Compliance Method: 9N-3.005(1)(d)

NON-HVHZ

Product Manufacturer:

Golden Giant, Inc.

P.O Box 389

Kenton, Ohio 43326

Engineer Evaluator:

Rodney Montgomery, P.E. # 62327

P.O. Box 389

Kenton, Ohio 43326

Florida Engineer Evaluation

Validator:

Locke Bowden, P.E., FL #49704

9450 Alysbury Place

Montgomery, AL 36117

Contents:

Evaluation Report Pages 1 – 3



Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2023.

Product Use: The Sliding Exterior Door Assemblies described in this report are used for boat storage structures in accordance with 2204, 2005, 2209, and 2210.

Product Description: **Steel Slider Exterior Door Assembly:**
Cladding: Giant Rib, 26 Ga. (.019"), 36" wide, through fastened, rolled metal panels, 50 ksi. Side Rails and Bottom Rail: Standard Steel Channel, 36 ksi (See details for exact sizes), Intermediate Rails: 8x3C13 or 10x3C12 Cold-Formed Steel CEE, 55 ksi (See details for exact sizes)
A. Door Analysis (See attached documents for rational analysis of door frames , 12x56; 16x40, and 21x45)
B. Door Layouts (See attached documents for member sizes and dimensions)
C. Details (See attached documents for erection details)
D. Wall Cladding is in compliance with ASTM E330-02
1. See Test Report FET 125-0071T-05 Dated April 21,2005

Materials:

STEEL		
Wall Panels	26,24 gage ASTM A 792, Grade 50	AZ50
Side Rails	ASTM A 992/572, SS Grade 50	Painted
Bottom Rail	ASTM A 992/572, SS Grade 50	Painted
Top Rail	ASTM A 992/572, SS Grade 50	Painted
Intermediate Rails	ASTM A653, Grade 55	Galvanized

STEEL		
Gage No.	MIN BASE METAL THICKNESS	
13 GA	.085	
12 GA	.097	

Fasteners : Panel fasteners are #12-14 x 1-1/2" Scots Tek 2 by Buildex
Use 8"-4"-8"-4' -8" pattern @ each Horizontal door rail.

Bolts: All ½" diameter bolts must have a minimum tensile strength, 20,000 lbf/in². All ¾" diameter bolts must comply with ASTM A 325 and must have a minimum tensile strength, 44,000 lbf/in².

Welds: All provisions of the American Welding Society Structural Welding Code – Steel , AWS D1.1 -20 applies to all connections described in this report .

Design and Installation: The allowable load capacities in the attached documents are based on allowable stress design. The use of the allowable load values for the products described in this report must comply with all applicable requirements and conditions specified in this report. No further increases are permitted for load durations other than those specified.

Limitations of Use:

Maximum Door Cladding Wind Pressure

1. Negative 55.3 psf
2. Positive 55.3 psf

Maximum Door Framing Wind Pressure

1. **Door Frame Size: 12 ft width x 56 ft height**
 - a) Negative 57.8 psf
 - b) Positive 47.5 psf
2. **Door Frame Size: 16 ft width x 40 ft height**
 - c) Negative 47.0 psf
 - d) Positive 43.0 psf
3. **Door Frame Size: 21 ft width x 45 ft height**
 - e) Negative 47.5 psf
 - f) Positive 42.4 psf

Maximum Door Frame Spacing: 4 feet on center spacing.

Shear Diaphragm: Wall Shear diaphragm values are outside the scope of this report

Conditions of Usage: A structural horizontal brace is required to be installed at 7 feet above the floor if a hurricane warning has been issued.

Installation:

Installation of the doors must be in accordance with this evaluation report and the manufacturer's published installation instruction.

Performance Standards:

The product described herein has demonstrated compliance with:

- ASTM E330-02
- AISC 360 -16 Steel Construction Manual
- AISI S100-16 North American Specification for the Design of Cold-formed Steel Structural Members.

Quality Assurance Entity:

The manufacturer has established compliance of their products in accordance with the Florida Building Code and Rule 9N-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.