

# SADEV USA TEST REPORT

## SCOPE OF WORK

ASTM E488 TENSILE, COMPRESSION AND SHEAR LOADING OF DUPLEX SS (S3000 SPIDER CASTINGS) GLASS MOUNTING FIXTURES

## REPORT NUMBER

H4992.02-106-31 R0

## TEST DATES

08/28/17 - 10/27/17

## ISSUE DATE

12/22/17

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## PAGES

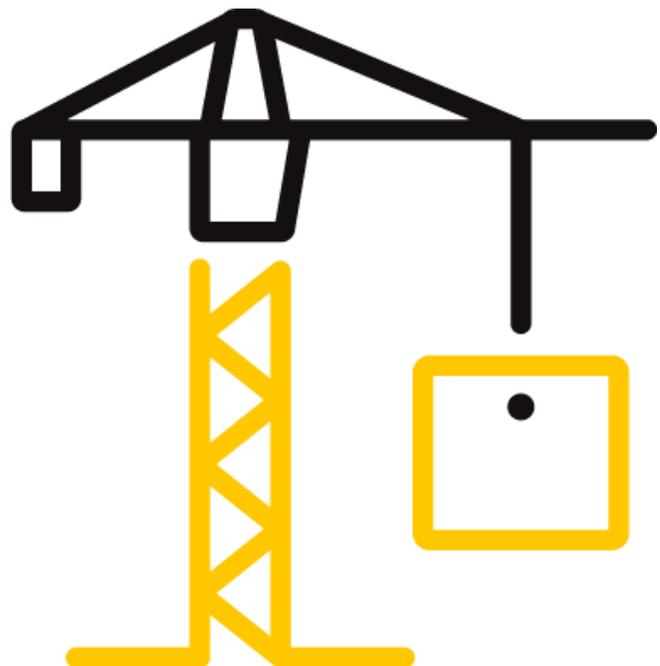
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## TEST REPORT FOR SADEV USA

Report No.: H4992.02-106-31 R0

Date: 12/22/17

### REPORT ISSUED TO

#### SADEV USA

3201 Plank Road  
Keokuk, Iowa 52632

### SECTION 1

#### SCOPE

**Products:** Duplex SS (S3000 Spider Casting) Glass Mounting Fixtures

Intertek Building & Construction (B&C) was contracted by Sadev USA to evaluate their Duplex SS (S3000 Spider Casting) glass mounting fixtures in accordance with ASTM E488 practices to determine Tensile, Compression, and Shear loading properties. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Joseph M. Brickner
<b>TITLE:</b>	Laboratory Supervisor Materials Laboratory
<b>SIGNATURE:</b>	
<b>DATE:</b>	12/22/17

JMB:dmc/kf

<b>REVIEWED BY:</b>	Dawn M. Chaney
<b>TITLE:</b>	Technician Team Lead Materials Laboratory
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<b>DATE:</b>	12/22/17

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## TEST REPORT FOR SADEV USA

Report No.: H4992.02-106-31 R0

Date: 12/22/17

### SECTION 2

#### TEST METHOD

The specimens were evaluated in accordance with the following:

**ASTM 488/E488M-15, Standard Test Methods for Strength of Anchors in Concrete Elements**

### SECTION 3

#### MATERIAL SOURCE

The materials were provided by Sadev USA. The following were received: three Duplex SS (S3000 Spider Casting) for each load orientation. Refer to the product description in Section 6 and the test photos in Section 9. The material was tested as received. Representative materials/test specimens will be retained by Intertek B&C for a minimum of four years from the test completion date.

### SECTION 4

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Dawn M. Chaney	Intertek B&C
Joseph M. Brickner	Intertek B&C

### SECTION 5

#### TEST PROCEDURES

All conditioning of test specimens and test conditions were at standard laboratory conditions unless otherwise reported. Refer to the test related photos in Section 9.

#### **ASTM E488 - Tension, Compression and Shear Loading**

Tension, Compression and Shear properties of the glass fittings were determined utilizing a SATEC Model 50UD Universal Test Machine (ICN: Y002011) equipped with a 50,000-pound load cell (ICN: 88507A) operating at a crosshead speed of 0.10 in/min. All specimens were fixture appropriate to the load orientation. Loading was performed until material yield or structural failure was observed.

**TEST REPORT FOR SADEV USA**

Report No.: H4992.02-106-31 R0

Date: 12/22/17

**SECTION 6**

**TEST SPECIMEN DESCRIPTIONS**

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS
ASTM E488	9	Duplex SS glass fittings

**SECTION 7**

**TEST RESULTS**

**One Leg - Vertical Orientation Loading -Duplex SS (Spider)**

SPECIMEN	MAXIMUM LOAD (lbf)	DEFLECTION AT MAXIMUM LOAD (INCH)	FAILURE DETERMINATION
1	2,070	0.082	Yield
2	2,020	0.078	Yield
3	1,770	0.076	Yield
<b>Average</b>	<b>1,953</b>	<b>0.079</b>	<b>Yield</b>

**Two Leg - Horizontal Orientation Loading -Duplex SS (Spider)**

SPECIMEN	MAXIMUM LOAD (lbf)	DEFLECTION AT MAXIMUM LOAD (INCH)	FAILURE DETERMINATION
1	2,330	0.086	Yield
2	4,020	0.150	Yield
3	1,990	0.074	Yield
<b>Average</b>	<b>2,780</b>	<b>0.103</b>	<b>Yield</b>

**SECTION 8**

**CONCLUSION**

The requested test method did not contain specific performance requirements.

## TEST REPORT FOR SADEV USA

Report No.: H4992.02-106-31 R0

Date: 12/22/17

### SECTION 9 PHOTOGRAPHS



**Photo No. 1**  
**Typical Setup for Single Leg / Vertical Orientation Loading**  
**Duplex SS Fittings**



**Photo No. 2**  
**Typical Setup for Double Leg / Horizontal Orientation Loading**  
**Duplex SS Fittings**

## TEST REPORT FOR SADEV USA

Report No.: H4992.02-106-31 R0

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**Photo No. 3**

**Typical Setup for Double Leg / Horizontal Orientation Loading  
Duplex SS Fittings**



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## TEST REPORT FOR SADEV USA

Report No.: H4992.02-106-31 R0

Date: 12/22/17

### SECTION 10

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	12/22/17	N/A	Original Report Issue