

# SADEV USA TEST REPORT

## **SCOPE OF WORK**

ASTM E488 TENSILE, COMPRESSION AND SHEAR LOADING OF CLASSIC 02 VP STYLE HOOK GLASS MOUNTING FIXTURES

**REPORT NUMBER** H4992.01-106-31 R0

**TEST DATES** 08/28/17 - 10/27/17

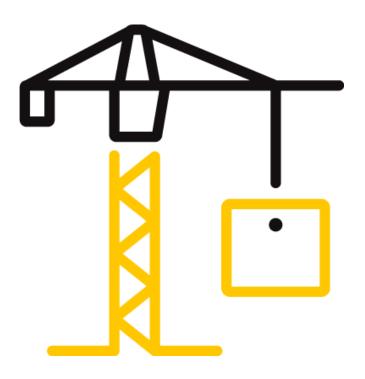
**ISSUE DATE** 12/22/17

**RECORD RETENTION END DATE** 10/27/21

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## **TEST REPORT FOR SADEV USA**

Report No.: H4992.01-106-31 R0 Date: 12/22/17

#### **REPORT ISSUED TO**

SADEV USA 3201 Plank Road Keokuk, Iowa 52632

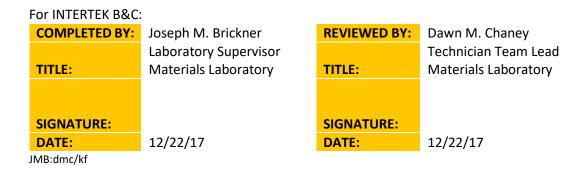
#### **SECTION 1**

SCOPE

Products: Classic 02 VP Style Hook Glass Mounting Fixtures

Intertek Building & Construction (B&C) was contracted by Sadev USA to evaluate their Classic 02 VP Style Hook 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.



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# 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 Classic 02 VP Style Hook 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.



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#### **SECTION 6**

#### **TEST SPECIMEN DESCRIPTIONS**

TEST PROCEDURE	NUMBER OF SPECIMENS	NOMINAL SPECIMEN DIMENSIONS
ASTM E488	9	Classic VP Style Hook glass fittings

#### SECTION 7

**TEST RESULTS** 

#### **Tension Loading - Classic VP Style Hook**

SPECIMEN	LOAD AT YIELD (lbf)	DEFLECTION AT YIELD (inch)	MAXIMUM LOAD (lbf)	DEFLECTION AT MAXIMUM LOAD (inch)
1	3,540	0.237	6,520	0.854
2	4,110	0.259	6,340	0.805
3	3,970	0.269	6,730	0.937
Average	3,870	0.255	6,530	0.865

## **Compression Loading - Classic VP Style Hook**

SPECIMEN	LOAD AT YIELD	DEFLECTION AT YIELD	MAXIMUM LOAD (lbf)	DEFLECTION AT MAXIMUM LOAD
	(lbf)	(inch)		(inch)
1	5,010	0.221	6,660	0.510
2	4,360	0.161	6,900	0.499
3	3,710	0.239	5,440	0.722
Average	4,360	0.207	6,330	0.577

#### Shear Loading - Classic VP Style Hook (Vertical Leg Orientation)

SPECIMEN	LOAD	DEFLECTION	MAXIMUM LOAD	DEFLECTION AT
	AT YIELD	AT YIELD	(lbf)	MAXIMUM LOAD
	(lbf)	(inch)		(inch)
1	388	0.117	3,960	1.179
2	338	0.126	3,870	1.248
3	300	0.091	3,850	1.278
Average	342	0.112	3,890	1.235



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## Shear Loading - Classic VP Style Hook (Horizontal Leg Orientation)

SPECIMEN	LOAD AT YIELD (lbf)	DEFLECTION AT YIELD (inch)	MAXIMUM LOAD (lbf)	DEFLECTION AT MAXIMUM LOAD (inch)
1	2,720	0.377	5,060	0.873
2	3,120	0.392	5,100	0.906
3	2,670	0.398	4,940	1.005
4	2,830	0.414	4,970	0.941
5	2,500	0.332	4,860	0.994
Average	2,770	0.383	4,990	0.944

## SECTION 8

## CONCLUSION

The requested test method did not contain specific performance requirements.



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# SECTION 9

PHOTOGRAPHS



Photo No. 1 Typical Setup for Tension Loading Classic VP Style Hook Fitting



Photo No. 2 Typical Setup for Compression Loading Classic VP Style Hook Fitting



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Photo No. 3 Typical Setup for Vertical Shear Loading Classic VP Style Hook Fitting



Photo No. 4 Typical Setup for Horizontal Shear Loading Classic VP Style Hook Fitting



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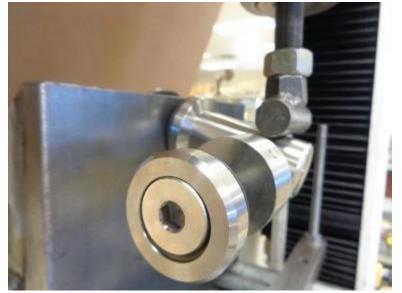


Photo No. 5 Typical Failure for Horizontal Shear Loading Classic VP Style Hook Fitting



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#### **SECTION 10**

**REVISION LOG** 

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