



27 March 2025  
 420028-01-04-C25-0189

## Freight Container Mechanical Seal Testing

**Customer:** SealValue Europe OÜ  
 Tallinn  
 Harjumaa, 11216, Estonia

**Attention:** Anastassia Pantšuk

**Purchase Order No.:** 250220

**Sample Type:** Strap Seal

**Sample Name:** UNIVERSAL 390 (as provided by customer)

**Model No.:** UNIVERSAL 390 (as provided by customer)

**Serial Nos.:** DTB 1 through DTB 5

**Specification No.:** ISO 17712:2013(E) Clause: 5

**Date Received:** 17 March 2025



**Test Date:** 19 March 2025

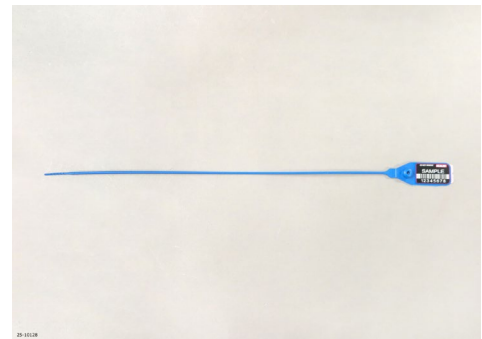
A total of 20 samples were received. Dayton T. Brown, Inc. certifies that 5 samples of the Seals referenced above were subjected to the Tensile Test.

Test Name	Paragraph No.	Classification Rating
Tensile Test	5.2	Indicative

**Results:** The above listed test was completed with no discrepancies noted. Refer to Test Report No. 420028-01-04-R25-0190 for complete details. As per ISO 17712:2013(E) Clause 5.1.2, "Testing is to be done once every two years". Therefore, this report expires 2 years from the test completion date.

Simple acceptance is the decision rule applied for all measurements related to the specifications referenced in this report. The test results recorded in this report apply only to the samples as received and relate only to those items tested. This report shall not be reproduced, except in full, without the written approval of Dayton T. Brown, Inc.

<b>Test Administrator:</b>		J. Benincasa
<b>Quality Department</b>		D. Thorne







ENGINEERING AND TEST DIVISION  
1175 CHURCH STREET, BOHEMIA, LONG ISLAND, NEW YORK 11716 (631) 589-6300

TEST REPORT NO.: 420028-01-04-R25-0190

DAYTON T. BROWN, INC. JOB NO.: 420028-01-000

<b>CUSTOMER:</b>	SEALVALUE EUROPE OÜ TALLINN HARJUMAA, 11216, ESTONIA
<b>SUBJECT:</b>	FREIGHT CONTAINER MECHANICAL SEAL TESTING PER ISO 17712:2013 (E) CLAUSE 5, CONDUCTED ON 5 STRAP SEALS, MODEL NO. UNIVERSAL 390, SERIAL NOS. DTB 1 THROUGH DTB 5
<b>PURCHASE ORDER NO.:</b>	250220

ATTENTION: ANASTASSIA PANTŠUK

<b>TEST ADMINISTRATOR</b>	 J. BENINCASA
<b>QUALITY DEPARTMENT</b>	 D. THORNE
<b>DATE</b>	27 MARCH 2025

INFORMATION CONTAINED HEREIN MAY BE SUBJECT TO EXPORT CONTROL LAWS. REFER TO INTERNATIONAL TRAFFIC IN ARMS REGULATION (ITAR) OR THE EXPORT ADMINISTRATION REGULATION (EAR) OF 1979. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO OBTAIN ANY REQUIRED LICENSES TO EXPORT ANY CONTROLLED DATA.

THE DATA CONTAINED IN THIS REPORT WAS OBTAINED BY TESTING IN COMPLIANCE WITH THE APPLICABLE TEST SPECIFICATION AS NOTED



REVISION HISTORY

Revision	Date	Section Affected	Change
--	03/27/2025	--	--

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## 1.0 ABSTRACT

This test report details the results of freight container mechanical seal testing conducted on Strap Seals, under reference (a) to the requirements of reference (c).

Results of the tests are detailed in the following text.

Test data pertinent to this program will remain on file at Dayton T. Brown, Inc. for 90 days.

This report expires 2 years from the issue date.

The testing and results contained in this report are in accordance with the testing requirements called out in ISO 17712:2013 and are only applicable to the specific units identified in the test report and do not address any individual manufacturer's compliance or non-compliance with all the requirements of ISO 17712:2013 which are the sole responsibility of each manufacturer and not part of the testing performed and recorded in this test report.

Dayton T. Brown, Inc. is not involved in any production quality inspections. All tests are based on the samples that are selected by the manufacturer and provided to Dayton T. Brown, Inc. without any Dayton T. Brown, Inc. involvement in said selection.

Dayton T. Brown, Inc. performs testing to ISO 17712:2013 under laboratory conditions. These tests do not measure and are not intended to measure all possible applications or installations of the seal assembly or components. In that event, the report will describe the particular application tested in detail. Dayton T. Brown, Inc. is not responsible for actual performance of any seal assembly as installed in any application.

Simple acceptance is the decision rule applied for all measurements related to the specifications referenced in this report.

This report shall not be reproduced, except in full, without the written approval of Dayton T. Brown, Inc.

## 2.0 REFERENCES

- (a) Customer Purchase Order No.: 250220
- (b) Dayton T. Brown, Inc. Job No.: 420028-01-000
- (c) Test Specification: ISO 17712:2013 (E) Clause 5

#### 4.0 ADMINISTRATIVE INFORMATION

<b>Customer</b>	SealValue Europe OÜ Tallinn Harjumaa, 11216, Estonia
Sample Type	Strap Seal
Sample Name	UNIVERSAL 390 (as provided by customer)
Model No.	UNIVERSAL 390 (as provided by customer)
Serial Nos.	DTB 1 through DTB 5
Quantity Received	20
Quantity Tested	5
Date Received	17 March 2025
Date Tested	19 March 2025

#### 5.0 TEST PROGRAM OUTLINE

Test	Test Item Description	Results
Tensile	Model No. UNIVERSAL 390 Strap Seals, Serial Nos. DTB 1 through DTB 5	See Page 6.
Test Equipment List and Test Item Photo	Model No. UNIVERSAL 390 Strap Seal	See Pages 8 and 9.

## 6.0 TEST RESULTS

### Tensile Test and Results

#### TEST REQUIREMENT

The tensile test shall be conducted in accordance with reference (c).

#### TEST RESULTS

A pretest visual inspection of the test items revealed no anomalies.  
 All testing was performed in accordance with the referenced specification.  
 The pulling speed during the test was 50.8 mm/min.  
 Test room ambient conditions: 20.9° C and 49.8% RH

#### TEST DATA

Date: 19 March 2025

Tensile Test at Room Temperature			
Specimen No.	Load (kN)	Class Rating	Remarks
DTB 1	0.173	I	*
DTB 2	0.164	I	*
DTB 3	0.175	I	*
DTB 4	0.172	I	**
DTB 5	0.163	I	**

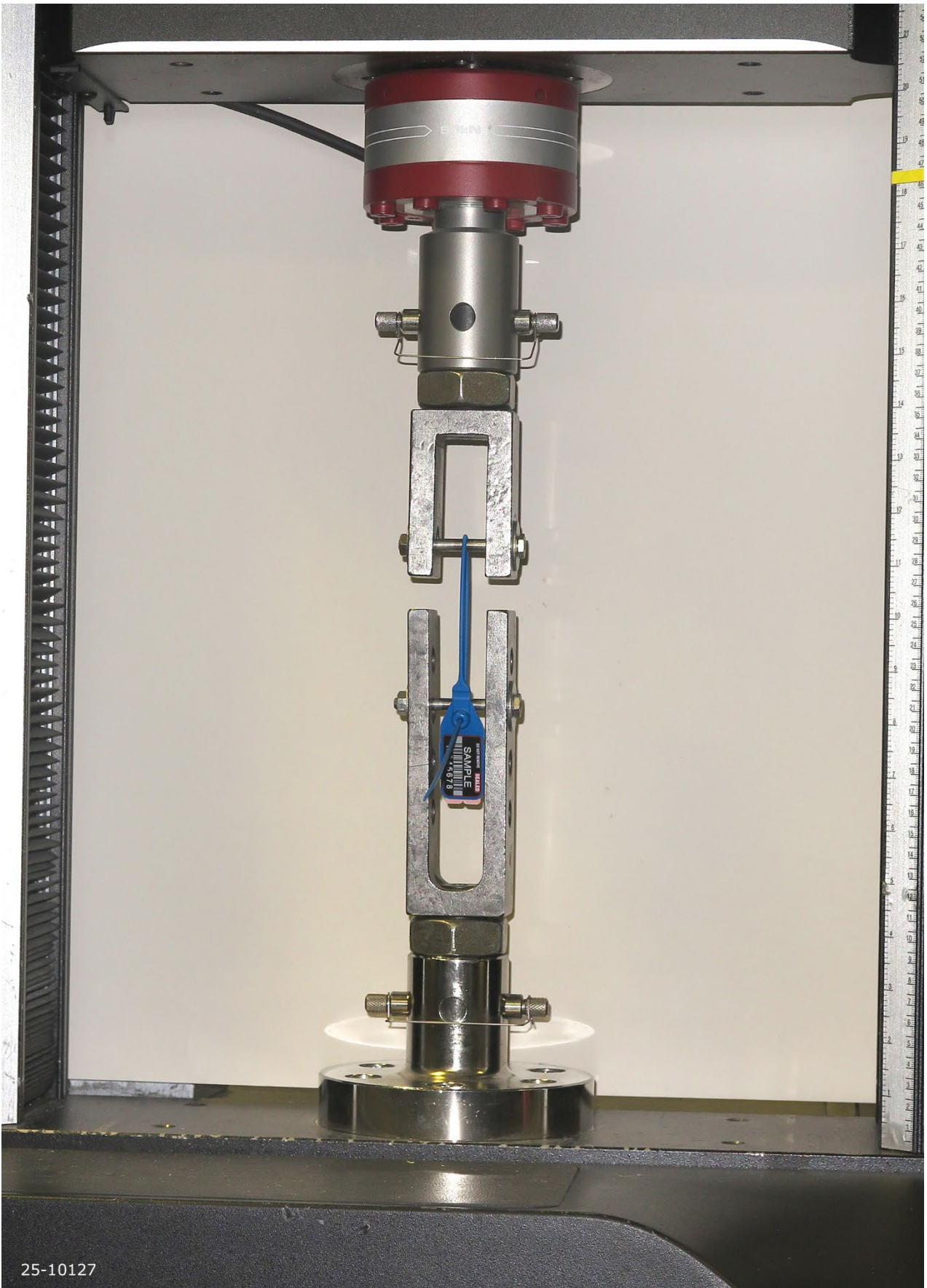
Tech: JB

\* A post-test visual inspection of the test item revealed that the strap broke at the upper support bolt due to testing.

\*\* A post-test visual inspection of the test item revealed that the strap broke near the lock mechanism due to testing.

#### Classification Key

Rating	Load to Failure
High Security (H):	10.0 kN
Security (S):	2.27 kN
Indicative (I):	<2.27 kN



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TYPICAL PHOTO OF THE TENSILE TEST SETUP

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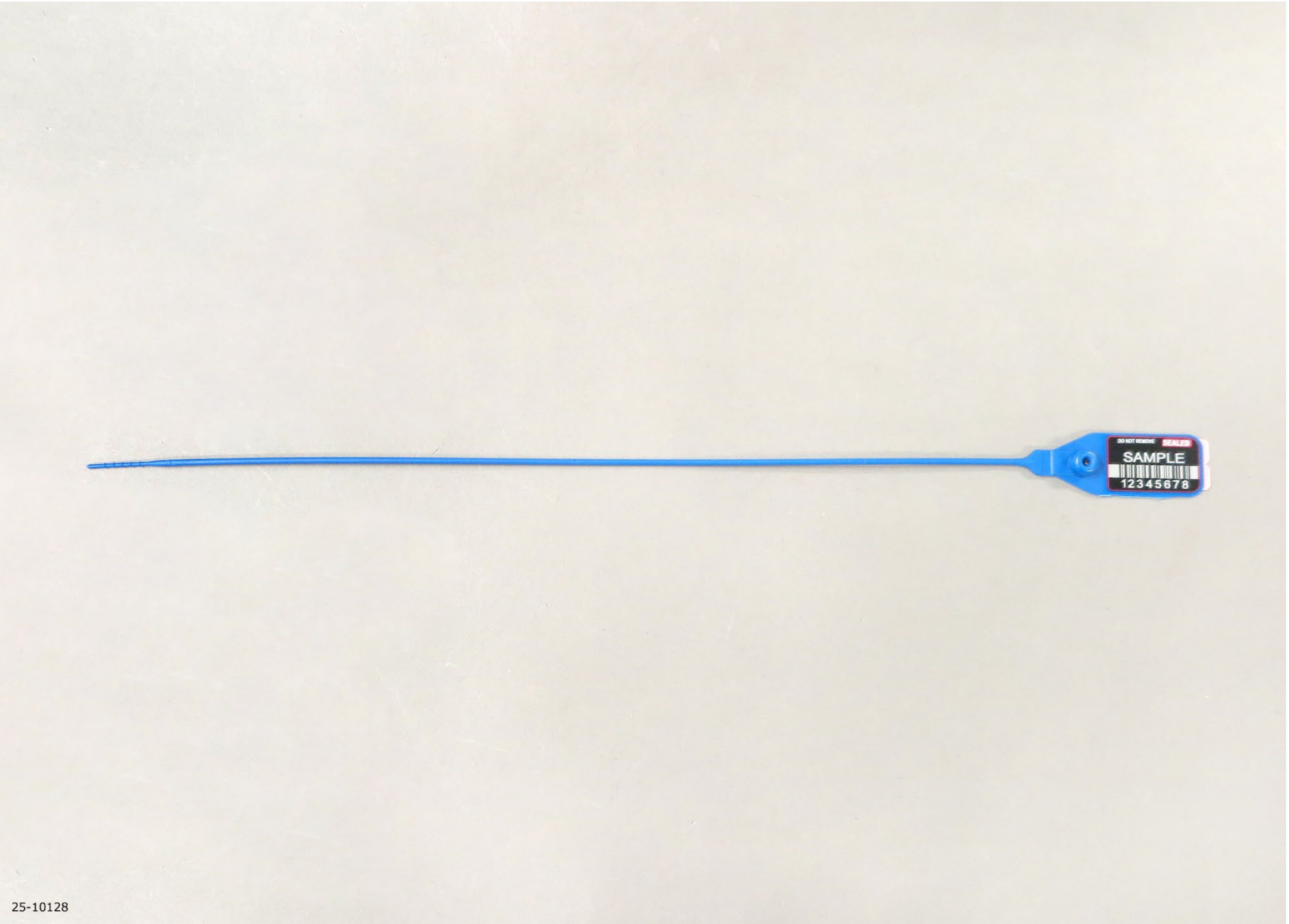
Test equipment utilized for the program reported herein was within its assigned interval of calibration. Details are on file at Dayton T. Brown, Inc. and will be made available upon request.



**TEST: FREIGHT CONTAINER MECHANICAL SEAL TESTING**

<u>ITEM</u>	<u>MANUFACTURER</u>	<u>MODEL</u>	<u>DTB NO.</u>	<u>ACCURACY</u>	<u>CAL DUE DATE</u>	<u>LAST CAL DATE</u>
Conditioning Room	Dayton T. Brown	N/A	04S-001	-	N.C.R.	-
Logger, RH and Temperature with Probe	Fluke	1620A, 2626S	12-39	59 to 95°F ± 0.75°F; 10 to 70% RH ± 2% RH	02/08/2026	02/14/2025
Tape Measure, 26 feet/8 meters	Starrett	TX1-26ME	15-100	± 1 mm	06/15/2025	06/17/2024
Test System, Dual Column Table Model	Instron	68TM-50	29-70	Mfr	07/20/2025	07/25/2024
Caliper, Digimatic 4"	Mitutoyo	CD-4" CS	68-273	± .0005"	01/31/2027	02/05/2025
Micrometer, Digimatic Outside 1" Coolant Proof	Mitutoyo	293-335-30	68-502	± 0.00005"	11/02/2025	11/06/2023

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MODEL NO. UNIVERSAL 390 STRAP SEAL

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