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

TEST REPORT NO.: 420948-01-04-R26-0712

DAYTON T. BROWN, INC. JOB NO.: 420948-01-000

CUSTOMER: SHANGHAI XINFAN INDUSTRIAL CORPORATION
ROOM 501, BUILDING 2, NO.288 TONGXIE ROAD CHANGNING DISTRICT, SHANGHAI
200050, CHINA

SUBJECT: FREIGHT CONTAINER MECHANICAL SEAL CLASSIFICATION TESTING PER ISO 17712:2013 (E) CLAUSE: 5,
CONDUCTED ON 25 CABLE SEALS, MODEL NO. TSS-CF5.0T, SERIAL NOS. 0000001 THROUGH 0000025

PURCHASE ORDER NO.: 2026100901

ATTENTION: MS FIFI CHEN

SEAL CLASSIFICATION: HIGH SECURITY

THIS REPORT CONTAINS: 16 PAGES

TEST ENGINEER	Nicholas Chiavaro N. CHIAVARO
QUALITY DEPARTMENT	Dwayne Thorne D. THORNE
ISSUE DATE	27 OCTOBER 2026

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

James Benincasa

Digitally signed by James Benincasa
Date: 2026.10.28 10:24:48 -04'00'

A2LA ACCREDITED
Testing Lab
Cert # 0767.01, 0767.02, 0767.03

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REVISION HISTORY

Revision	Issue Date	Section Affected	Change
--	10/27/2026	--	--

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1.0 ABSTRACT

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

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.

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.

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 samples as received and 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.:	2026100901
(b)	Dayton T. Brown, Inc. Job No.:	420948-01-000
(c)	Test Specification:	ISO 17712:2013 (E) Clause 5

3.0 SEAL CLASSIFICATION

ISO 17712:2013 (E):	(H) – High Security for Clause 5

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4.0 ADMINISTRATIVE INFORMATION

Customer	Shanghai Xinfan Industrial Corporation Room 501, Building 2, No.288 Tongxie Road Changning District, Shanghai 200050, China
Sample Type	Cable Seal
Sample Name	High Security Cable Seal (as provided by the customer)
Model No.	TSS-CF5.0T (as provided by the customer)
Serial Nos.	0000001 through 0000025
Quantity Received	30
Quantity Tested	25
Date Received	12 October 2026
Date Tested	16 October 2026

5.0 TEST PROGRAM OUTLINE

Test	Test Item Description	Results
Tensile	Model No. TSS-CF5.0T Cable Seals, Serial Nos. 0000001 through 0000005	See Page 6.
Shear	Model No. TSS-CF5.0T Cable Seals, Serial Nos. 0000006 through 0000010	See Page 8.
Bending	Model No. TSS-CF5.0T Cable Seals, Serial Nos. 0000011 through 0000015	See Page 10.
Impact	Model No. TSS-CF5.0T Cable Seals, Serial Nos. 0000016 through 0000025	See Pages 12 and 13.
Test Equipment List and Test Item Photo	Model No. TSS-CF5.0T Cable Seal	See Pages 15 and 16.

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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: 20.1ºC and 47.0% RH

TEST DATA Date: 16 October 2026

Tensile Test at Room Temperature

Specimen No.	Load (kN)	Class Rating	Remarks
0000001	11.71	H	*
0000002	11.02	H	*
0000003	10.90	H	*
0000004	14.99	H	*
0000005	10.48	H	*

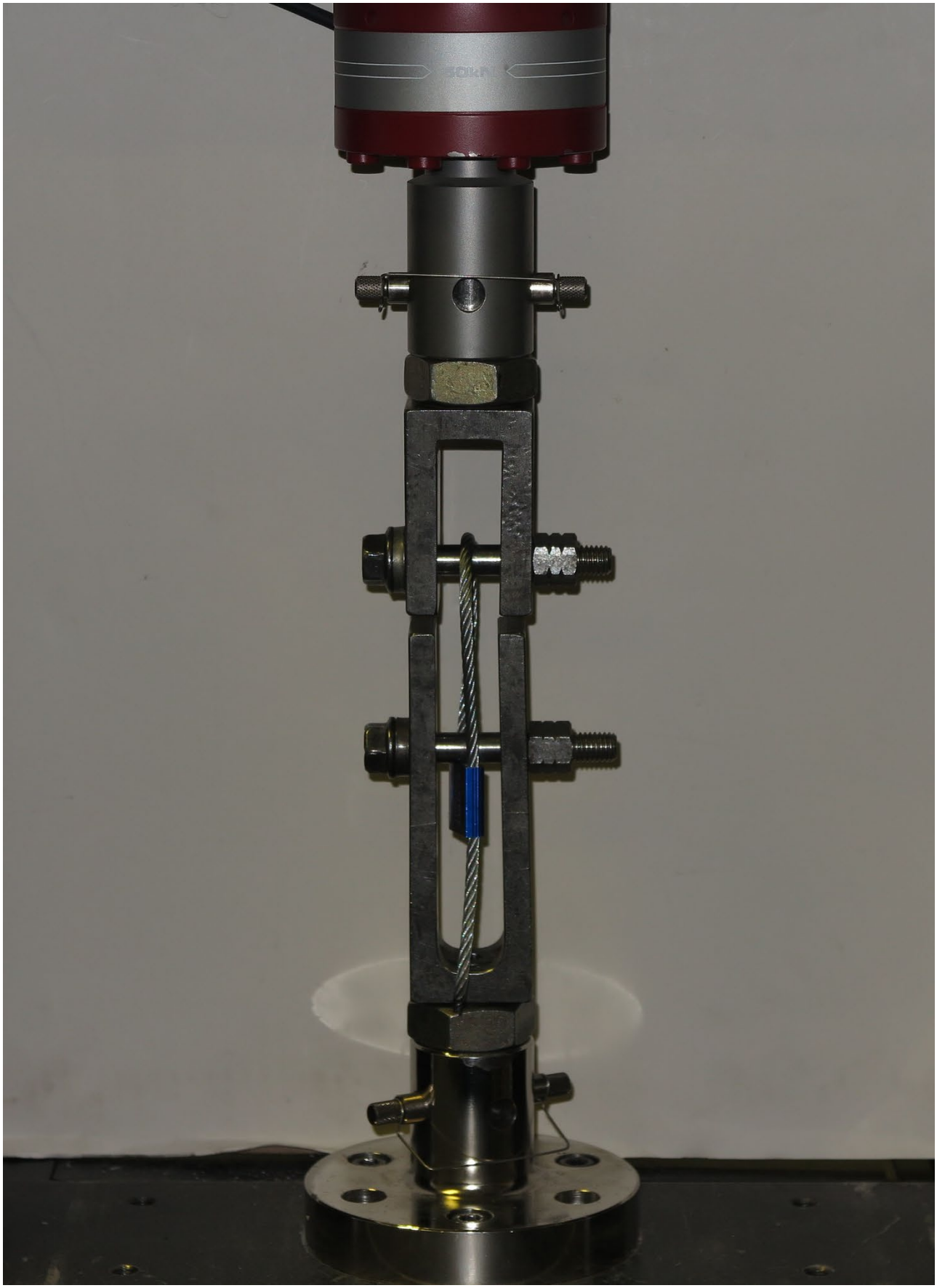
Tech: HZ

* A post-test visual inspection of the test item revealed that the cable broke out through the crimp wall of 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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Shear Test and Results

TEST REQUIREMENT

The shear 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 travel rate during the test was 12.5 mm/min.
Test room ambient conditions: 20.1°C and 42.1% RH

TEST DATA Date: 16 October 2026

Shear Test at Room Temperature

Specimen No.	Load (kN)	Class Rating	Remarks
0000006	8.896	H	*
0000007	8.896	H	*
0000008	8.896	H	*
0000009	8.896	H	*
0000010	8.896	H	*

Tech: HZ

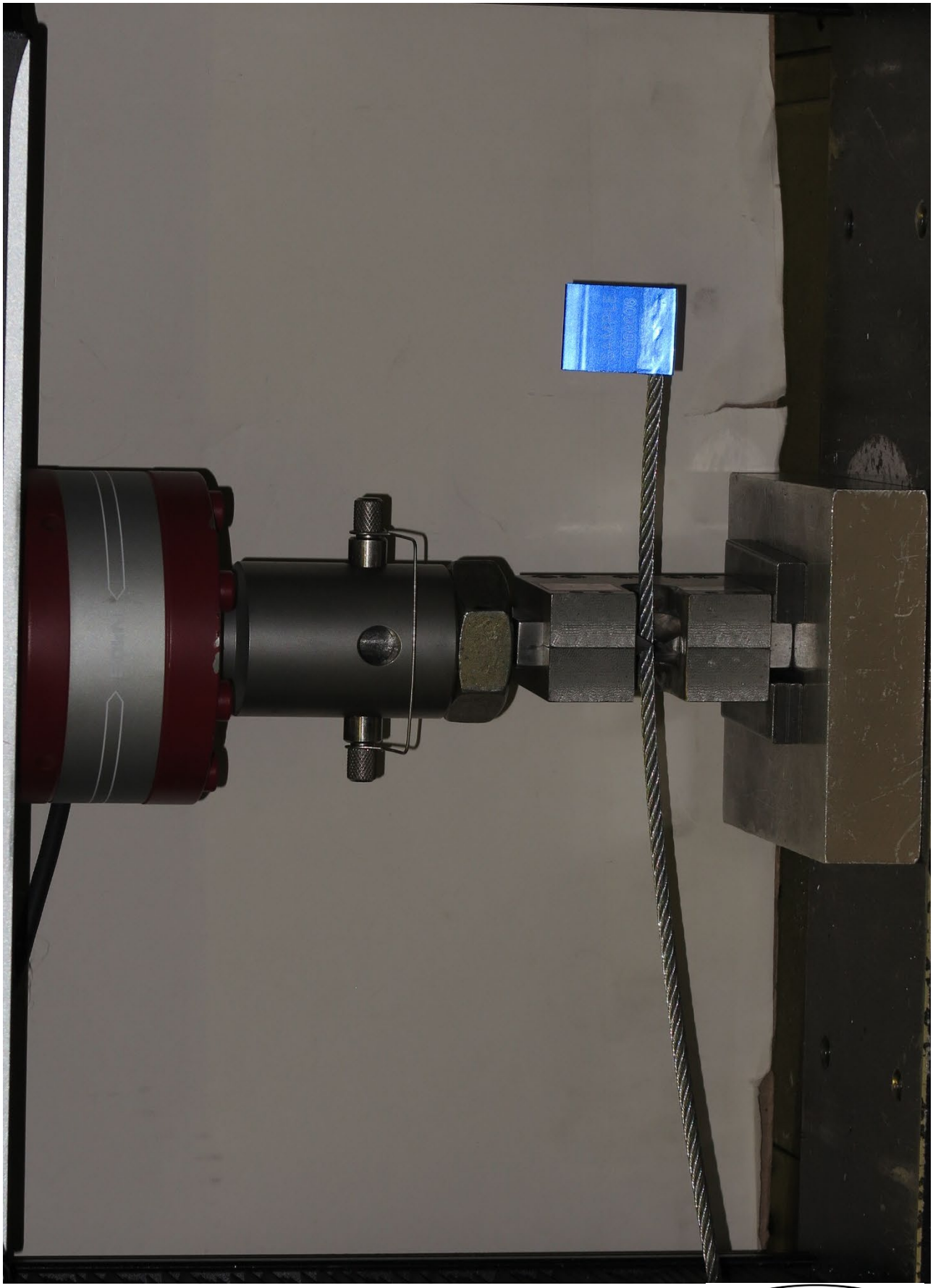
* A post-test visual inspection of the test item revealed a slight indent on the cable due to testing.

Classification Key

Rating	Load to Failure
High Security: (H):	3.336 kN
Security (S):	2.224 kN
Indicative (I):	<2.224 kN

SAFETY PRECAUTIONS – Do not exceed a shear force greater than 8900 N (2001 lbf). If the specimen has not failed at that force, halt the test and unload the test equipment. Record a shear force of 8896 N (2000 lbf). Sudden and violent rupture of the test specimen can endanger personnel, equipment and property.

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TYPICAL PHOTO OF THE SHEAR TEST SETUP

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Bending Test and Results

TEST REQUIREMENT

The bending 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 test was performed using a bending time of 3 seconds/cycle.
Test room ambient conditions: 20.1ºC and 46.9% RH

TEST DATA Date: 16 October 2026

Bending Test at Room Temperature			
Specimen No.	Flex Cycles	Class Rating	Remarks
0000011	>501	H	*
0000012	>501	H	*
0000013	>501	H	*
0000014	>501	H	*
0000015	>501	H	*

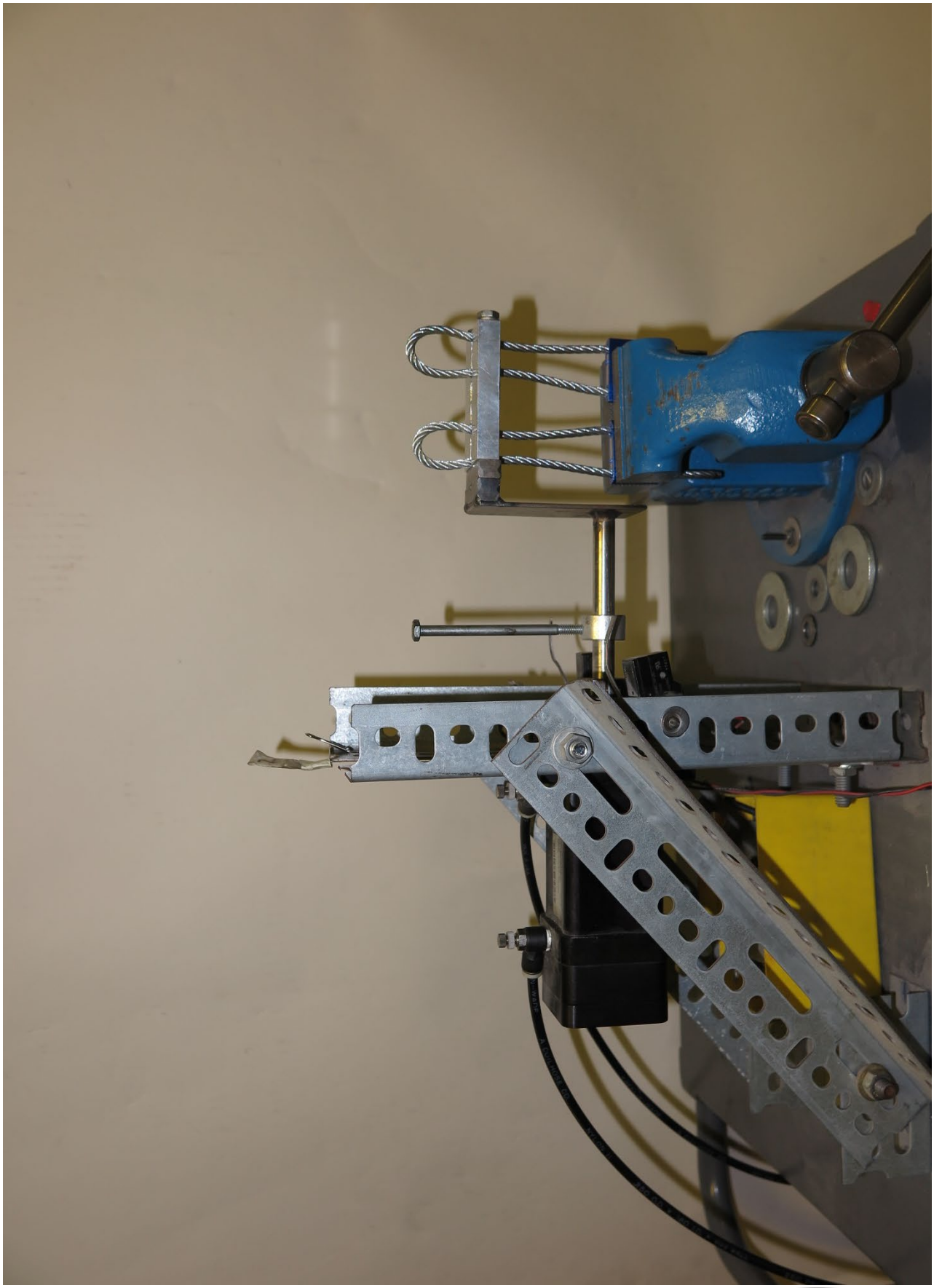
Tech: HZ

* A post-test visual inspection of the test item revealed no anomalies due to testing.

Classification Key

Rating	Flexible Seals Cycles to Failure
High Security (H):	501
Security (S):	251
Indicative (I):	<251

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TYPICAL PHOTO OF THE BENDING TEST SETUP

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Impact Test and Results

TEST REQUIREMENT

The impact 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.
Test chamber conditions: 18.5ºC and 50.1% RH

TEST DATA Date: 16 October 2026

Impact Test at Room Temperature (required 18 ± 3°C)					
Specimen No.	Number of Successful Impacts Per Load (J)			Class Rating	Remarks
	13.56	27.12	40.68		
0000016	5	5	5	H	*
0000017	5	5	5	H	*
0000018	5	5	5	H	*
0000019	5	5	5	H	*
0000020	5	5	5	H	*

Tech: HZ

* A post-test visual inspection of the test item revealed that portions of the seal deformed due to testing. The cable and lock of the seal did not remain intact.

Classification Key

Rating	Load to Failure (5 impacts at each load)	Dead Blow Weight (4 kg) Drop Height
High Security (H):	40.68 J	1.037 m
Security (S):	27.12 J	0.691 m
Indicative (I):	<27.12 J	0.346 m

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Impact Test and Results

Test chamber conditions: -27.5ºC and 40.1% RH

TEST DATA – (Continued) Date: 16 October 2026

Impact Test at Reduced Temperature (required -27 ± 3°C)					
Specimen No.	Number of Successful Impacts Per Load (J)			Class Rating	Remarks
	13.56	27.12	40.68		
0000021	5	5	5	H	*
0000022	5	5	5	H	*
0000023	5	5	5	H	*
0000024	5	5	5	H	*
0000025	5	5	5	H	*

Tech: HZ

* A post-test visual inspection of the test item revealed that portions of the seal deformed due to testing. The cable and lock of the seal did not remain intact.

Classification Key

Rating	Load to Failure (5 impacts at each load)	Dead Blow Weight (4 kg) Drop Height
High Security (H):	40.68 J	1.037 m
Security (S):	27.12 J	0.691 m
Indicative (I):	<27.12 J	0.346 m

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TYPICAL PHOTO OF THE IMPACT TEST SETUP

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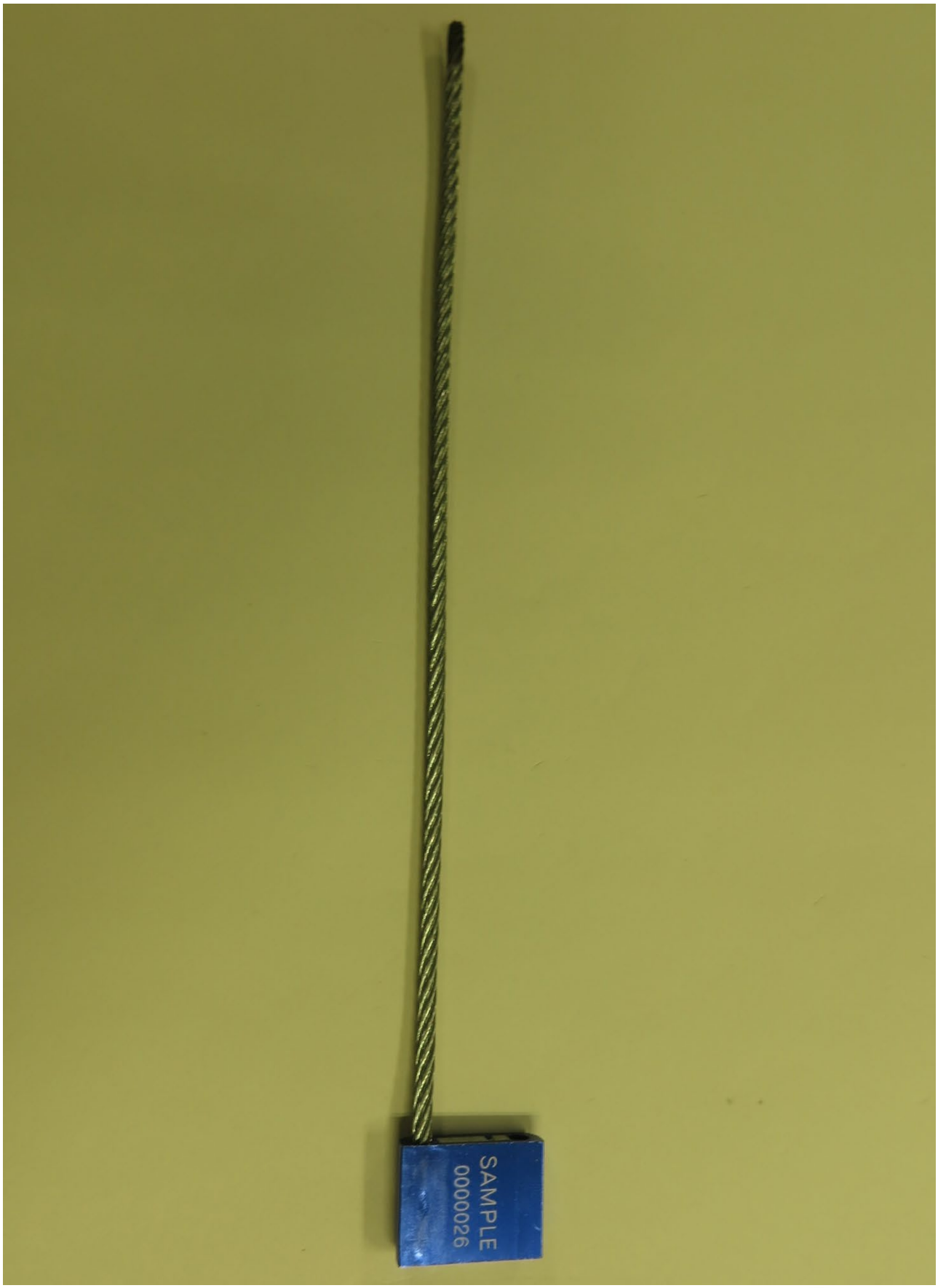
Test equipment utilized for the program reported herein was within its assigned interval of calibration.
Details are on file at Dayton T. Brown, Inc. and will be made available upon request.

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TEST: FREIGHT CONTAINER MECHANICAL SEAL CLASSIFICATION TESTING

ITEM	MANUFACTURER	MODEL	DTB NO.	ACCURACY	CAL DUE DATE	LAST CAL DATE
THERMOTRON, 275	THERMOTRON	FX-82-CHV-25-25	04E-006	-	N.C.R.	-
CONDITIONING ROOM	DAYTON T. BROWN	N/A	04S-001	-	N.C.R.	-
TEST FIXTURE, CABLE SEAL BEND WITH COUNTER	DAYTON T. BROWN	JB-2	04S-013	-	N.C.R.	-
RECORDER, CHART TRULINE	HONEYWELL	DR4500	12-12	Type T ± 0.7°F	03/28/2027	03/30/2026
LOGGER, RH AND TEMPERATURE WITH PROBE	FLUKE	1620A, 2626S	12-39	59 to 95°F ± 0.75°F; 10 to 70% RH ± 2% RH	02/28/2027	03/04/2026
TAPE MEASURE, 12 FOOT	HYPER TOUGH	12 FT. X 5/8 IN.	15-112	± 1/16”	08/22/2027	08/26/2025
CONTROLLER, ENVIRONMENTAL SYSTEM	JC SYSTEMS	620	25-55	RTD ± 1.08°F; RH ± 1% RH	03/28/2027	03/30/2026
TEST SYSTEM, DUAL COLUMN TABLE MODEL	INSTRON	68TM-50	29-70	Mfr	07/18/2027	07/23/2026
TRANSMITTER, TEMPERATURE & HUMIDITY	VAISALA	HMP235	31-129	± 2% 10 to 95 % RH	02/21/2027	08/21/2026
WEIGHT, DEAD BLOW	DAYTON T. BROWN	JB-1	38-55	± 0.01 kgrams	05/21/2028	05/27/2026
TIMER, DIGITAL 4-CHANNEL	FISHER SCIENTIFIC	14-649-17	47-55	± 8.64 Sec/24 hr	01/24/2027	01/30/2026
IMPACT TESTER, FREIGHT CONTAINER MECHANICAL	DAYTON T. BROWN	ISO 17712:2013	61-10	-	N.C.R.	-
CALIPER, DIGIMATIC 4”	MITUTOYO	CD-4” CS	68-273	± 0.0005	01/31/2027	02/05/2025
PROTRACTOR, DIGITAL	PRO PRODUCTS	PRO 3600	68-279	± 0.05° (0° to 10°) ± 0.1° (80° to 90°) ± 0.2° (10° to 80°)	01/31/2027	02/03/2026
FIXTURE, SHACKLE CUTTING AND 2 BLADES	DAYTON T. BROWN	ISO 17712:2013E	68-390	Mfr	01/03/2027	08/30/2024
MICROMETER, DIGIMATIC OUTSIDE 1"	MITUTOYO	293-335-30	68-502	± 0.00005"	11/21/2027	11/21/2025

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JOB NO. 420948-01-000

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MODEL NO. TSS-CF5.0T CABLE SEAL

16 OCTOBER 2026

FILE NO. 26-8062

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