



財團法人金屬工業研究發展中心
機械測試實驗室

台中市西屯區工業區 37 路 25 號 TEL : (04)23502169

Metal Industries Research & Development Centre

Mechanical Testing Laboratory

No.25, 37th Road, Industrial Park, Xitun Dist., Taichung City, Taiwan (R.O.C.)

Date : 2026/05/13

Accreditation No. : 115TD0513-049-C01



Testing Laboratory
0099

Certificate of Conformance for Freight Container Mechanical Seal Testing
Seal Classification: Indicative seal

Customer :

MEGA FORTRIS BERHAD

NO.29 JALAN ANGGERIK MOKARA 31/47, KOTA KEMUNING, SEKSYEN 31, 40460 SHAH ALAM, SELANGOR, MALAYSIA.

Name of Article : Mini Cable Lock Premium 250 2K

Type : MCLP 250 2K

Serial No. : 000061B~000085B

Specification No. : ISO 17712:2013(E)

Test Dates : 2026/05/07~2026/05/13



MIRDC, certifies that 25 samples, 5 for each test, of the seal referenced above were subjected to the following tests.

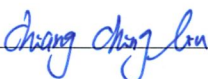



Test Item	Section Number	Classification
Tensile Test	5.2	Security seal (S)
Shear Test	5.3	High security seal (H)
Bending Test	5.4	High security seal (H)
Impact Test room temp	5.5	Indicative seal (I)
Impact Test reduced temp	5.5	Indicative seal (I)

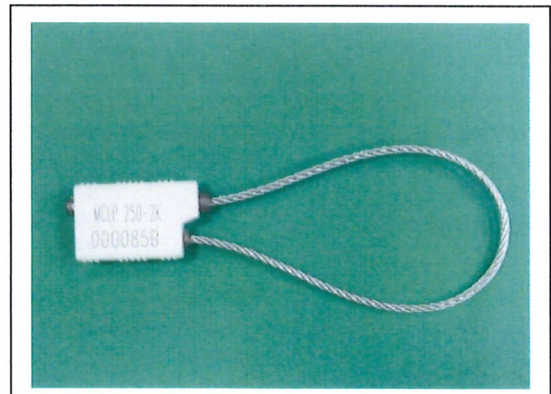
Remarks : As per ISO17712:2013(E) Clause 5.1.2 "Testing is to be done once every two years".

Therefore, this report expires two years from the test completion date.

Results : The above listed tests were completed with no discrepancies noted. Refer to test report number P0415049-T01 for complete details.

The test results contained herein pertain only to the specimens listed in this report. This report shall not be reproduced, except in full, without the written approval of MIRDC

Approved Signatory : CHIANG, Ching-Liu	 
Engineer : SU, Yuan-Da	 





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試驗報告 TEST REPORT



Testing Laboratory

0099

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Customer :

MEGA FORTRIS BERHAD

NO.29 JALAN ANGGERIK MOKARA 31/47, KOTA KEMUNING, SEKSYEN 31, 40460 SHAH ALAM, SELANGOR, MALAYSIA.

SUBJECT : Freight containers Mechanical seals classification Testing

Name of Article : Mini Cable Lock Premium 250 2K

Type : MCLP 250 2K

Received Date : 2026/04/15

Test Dates : 2026/05/07~2026/05/13

Date Issued : 2026/05/13



Chiang Ching-Liu



CHIANG, Ching-Liu

報告簽署人 (Report Authorized Person)

Su Yuan-Da



SU, Yuan-Da

檢驗員 (Inspector)

Note :

- (1) The operation and testing of MIRDC laboratory are in conformity to the requirements of ISO/IEC 17025 : 2017
(Taiwan Accreditation Foundation, Accreditation No. : 0099)
- (2) This report is responsible for designated samples only.
- (3) Reproduction of all or parts this report without a written approval is strictly prohibited.
- (4) Decision rules of conformance statement of this test report, do not consider uncertainty of measurement.



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1. ABSTRACT

Customer :

MEGA FORTRIS BERHAD

NO.29 JALAN ANGGERIK MOKARA 31/47, KOTA KEMUNING, SEKSYEN 31, 40460 SHAH ALAM,
SELANGOR, MALAYSIA.

Name of Article : Mini Cable Lock Premium 250 2K

Type : MCLP 250 2K

Serial No. : 000061B~000085B

Quantity Tested : 25

Specification No. : ISO 17712:2013(E)

Test Item	Section Number	Results
Tensile Test	5.2	See Page 3
Shear Test	5.3	See Page 5
Bending Test	5.4	See Page 6
Impact Test room temp	5.5	See Page 7
Impact Test reduced temp	5.5	See Page 7



2. Tensile Test :

Testing Instrument : Universal Testing Machine (No.TG0103)

Ambient Temp. : 19°C ; 58% R.H.

Specification No. : ISO 17712:2013(E)

Result :

Tensile Test Section 5.2

The seal was gripped in a tensile machine and a pull force applied.

Specimen No.	Requirement Load to failure	Result kN	Seal classification
000061B	10.0 kN : High security seal 2.27 kN : Security seal < 2.27 kN : Indicative seal	4.27	Security seal (S)
000062B		4.16	Security seal (S)
000063B		4.30	Security seal (S)
000064B		4.99	Security seal (S)
000065B		4.27	Security seal (S)



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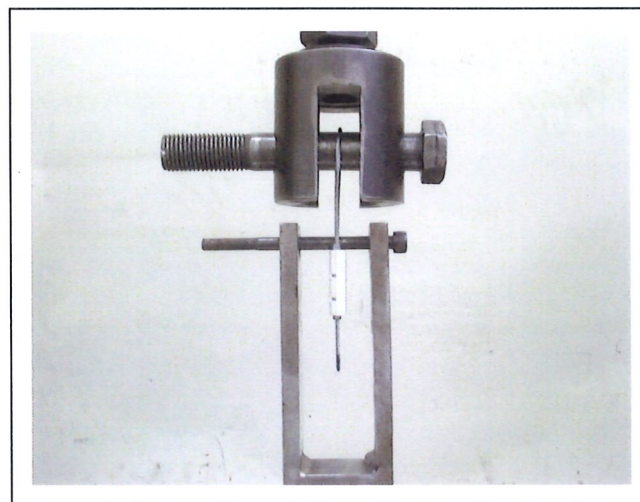
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Universal Testing Machine



Tensile Set up





3. Shear Test

Testing Instrument : Universal Testing Machine (No.TG0103)

Ambient Temp. : 19°C ; 58% R.H.

Specification No. : ISO 17712:2013(E)

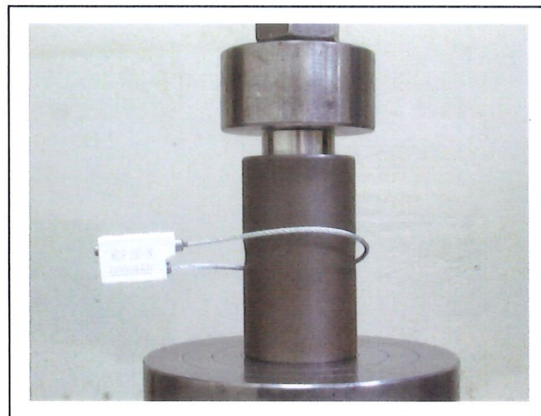
Result :

Shear Test Section 5.3

The seal was fixed in a universal testing machine to withstand cutting with shearing blades and a compressive load applied slowly until the seal is severed.

Specimen No.	Requirement Load to failure	Result kN	Seal classification
000066B	3.336 kN : High security seal 2.224 kN : Security seal <2.224 kN : Indicative seal	3.616	High security seal (H)
000067B		3.956	High security seal (H)
000068B		3.806	High security seal (H)
000069B		3.696	High security seal (H)
000070B		3.834	High security seal (H)

Shear Set up



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



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4. Bending Test

Testing Instrument : Bending Tester

Ambient Temp. : 19°C ; 57% R.H.

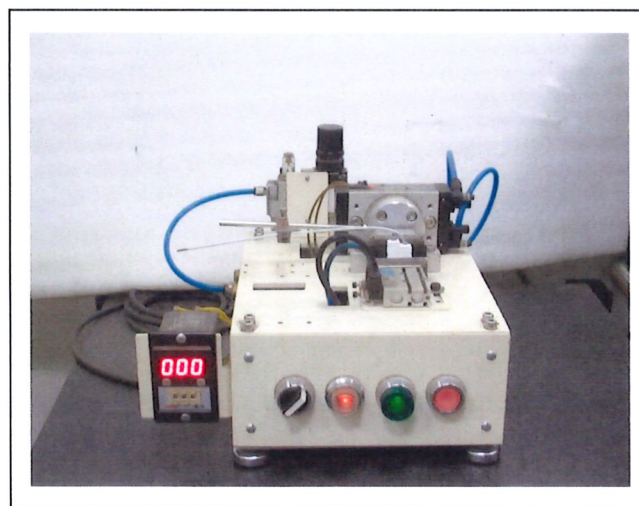
Specification No. : ISO 17712:2013(E)

Result :

Bending Test Section 5.4

Fix the locking end and flex the material adjacent to this fixed end repeatedly through an arc of 180° until failure

Specimen No.	Requirement Cycles to failure	Result Cycles	Seal classification
000071B	501 : High security seal 251 : Security seal <251 : Indicative seal	> 501	High security seal (H)
000072B		> 501	High security seal (H)
000073B		> 501	High security seal (H)
000074B		> 501	High security seal (H)
000075B		> 501	High security seal (H)



Bend Set up



5. Impact Test

Testing Instrument :

5.1. Impact Tester

5.2. Programmable Low Temp. Tester (No.SG5501)

Specification No. : ISO 17712:2013(E)

Impact Test Section 5.5

The impact test is performed at 18 degrees Celsius and minus 27 degrees Celsius of temperature. The impact load is applied at the locking mechanism of the seal in the direction opposite the direction used in locking the seal.

Result :

Impact Test at 18±3°C					
Specimen No.	Requirement	Result Joule			Seal classification
		13.56	27.12	40.68	
000076B	40.68 J : High security seal 27.12 J : Security seal <27.12 J : Indicative seal 5 impacts at each load	Pass	0	N/A	Indicative seal (I)
000077B		Pass	4	N/A	Indicative seal (I)
000078B		Pass	0	N/A	Indicative seal (I)
000079B		Pass	0	N/A	Indicative seal (I)
000080B		Pass	4	N/A	Indicative seal (I)

Impact Test at -27±3°C					
Specimen No.	Requirement	Result Joule			Seal classification
		13.56	27.12	40.68	
000081B	40.68 J : High security seal 27.12 J : Security seal <27.12 J : Indicative seal 5 impacts at each load	Pass	4	N/A	Indicative seal (I)
000082B		Pass	4	N/A	Indicative seal (I)
000083B		3	N/A	N/A	Indicative seal (I)
000084B		3	N/A	N/A	Indicative seal (I)
000085B		Pass	2	N/A	Indicative seal (I)



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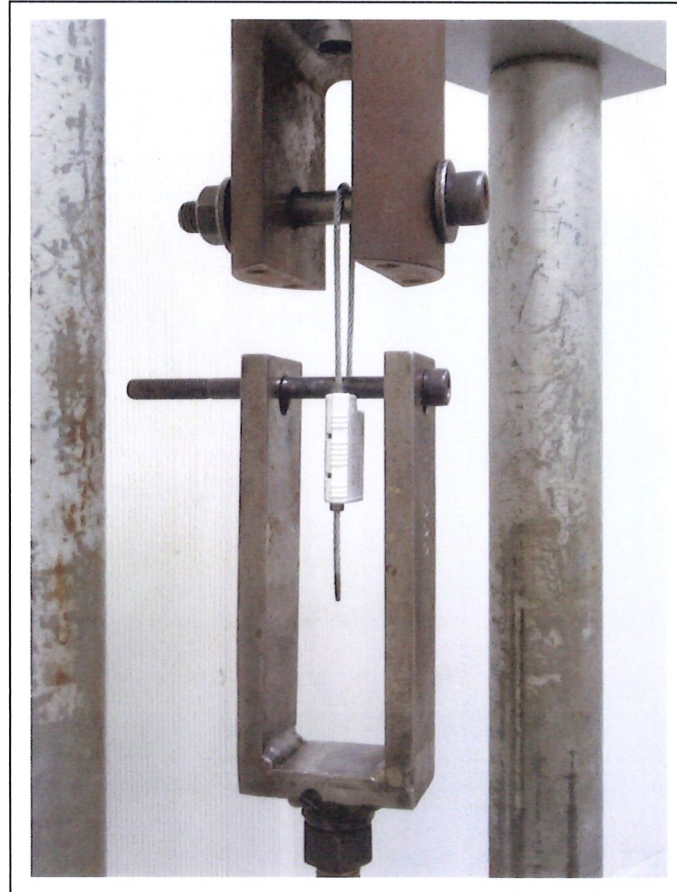
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Impact Set up



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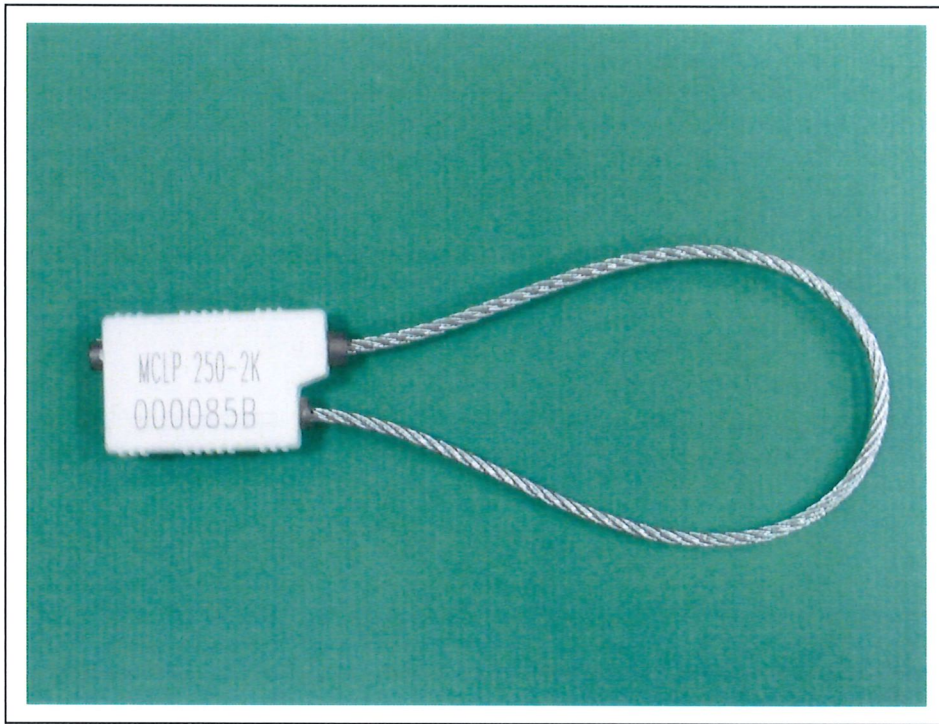
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Name of Article : Mini Cable Lock Premium 250 2K

Type : MCLP 250 2K

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