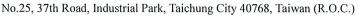


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Metal Industries Research & Development Centre Mechanical Testing Laboratory



Date: 2025/08/22

Accreditation No.: 114TD0822-051-C01



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

Customer:

MEGAFORTRIS SDN. BHD.

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

SELANGOR, MALAYSIA.

Name of Article: FORT MEGA POST SEAL

Type: FMPT

Serial No.: A000031M~A000055M Specification No.: ISO 17712:2013(E) Test Dates: 2025/08/14~2025/08/22

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

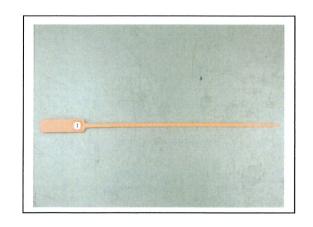
Test Item	Section Number	Classification
Tensile Test	5.2	Indicative seal (I)
Shear Test	5.3	Indicative seal (I)
Bending Test	5.4	Indicative seal (I)
Impact Test room temp	5.5	Indicative seal (I)
Impact Test reduced temp	5.5	Indicative seal (I)

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 O0814051-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:	Chiang Ching lin 流江
SU, Yuan-Da	Su. Yuan-Da 原本





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No.25, 37th Road, Industrial Park, Taichung City 40768, Taiwan (R.O.C.) 試驗報告 TEST REPORT



TEST REPORT NO. : 00814051-T01

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Customer:

MEGAFORTRIS SDN. BHD.

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: FORT MEGA POST SEAL

Type: FMPT

Received Date: 2025/08/14

Test Dates: 2025/08/14~2025/08/22

Date Issued: 2025/08/22

ESEARCH & OFFEE OF WENT STATE OF WENT STATE

CHIANG, Ching-Liu

報告簽署人 (Report Authorized Person)

SU, Yuan-Da

檢驗員 (Inspector)

v. Yuan-1)

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:

MEGAFORTRIS SDN. BHD.

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

SELANGOR, MALAYSIA.

Name of Article: FORT MEGA POST SEAL

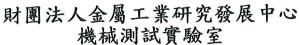
Type: FMPT

Serial No.: A000031M~A000055M

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	



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2. Tensile Test:

Testing Instrument: Universal Testing Machine (No.TG0103)

Ambient Temp. : 21°C; 64% 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
A000031M	Load to failure	0.26	Indicative seal (I)
A000032M	10.0 kN: High security seal	0.31	Indicative seal (I)
A000033M	2.27 kN: Security seal	0.29	Indicative seal (I)
A000034M	< 2.27 kN : Indicative seal	0.31	Indicative seal (I)
A000035M		0.26	Indicative seal (I)



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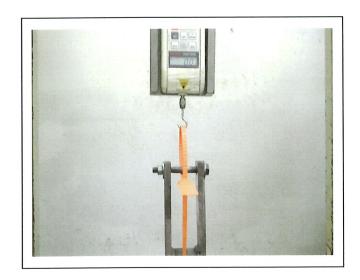
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Universal Testing Machine



Tensile Set up



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3. Shear Test

Testing Instrument: Universal Testing Machine (No.TG0103)

Ambient Temp. : 20°C ; 63% 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
A000036M		0.228	Indicative seal (I)
A000037M	3.336 kN: High security seal	0.227	Indicative seal (I)
A000038M	2.224 kN: Security seal	0.256	Indicative seal (I)
A000039M	<2.224 kN: Indicative seal	0.228	Indicative seal (I)
A000040M		0.222	Indicative seal (I)





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

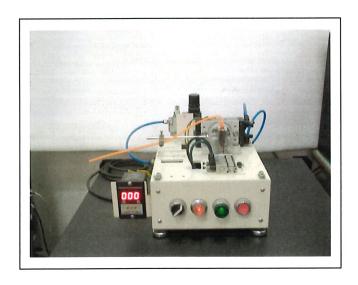
Testing Instrument: Bending Tester Ambient Temp.: 21°C; 63% R.H. Specification No.: ISO 17712:2013(E)

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
A000041M		< 251	Indicative seal (I)
A000042M	501: High security seal	< 251	Indicative seal (I)
A000043M	251 : Security seal	< 251	Indicative seal (I)
A000044M	<251: Indicative seal	< 251	Indicative seal (I)
A000045M		< 251	Indicative seal (I)



Bend Set up



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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	
A000046M		0	N/A	N/A	Indicative seal (I)
A000047M	40.68 J: High security seal	0	N/A	N/A	Indicative seal (I)
A000048M	27.12 J: Security seal <27.12 J: Indicative seal 5 impacts at each load	0	N/A	N/A	Indicative seal (I)
A000049M		0	N/A	N/A	Indicative seal (I)
A000050M		0	N/A	N/A	Indicative seal (I)

Impact Test at -27±3℃					
Specimen No.	Requirement	Result Joule			Seal classification
		13.56	27.12	40.68	
A000051M		0	N/A	N/A	Indicative seal (I)
A000052M	40.68 J: High security seal	0	N/A	N/A	Indicative seal (I)
A000053M	27.12 J: Security seal	0	N/A	N/A	Indicative seal (I)
A000054M	5 impacts at each load	0	N/A	N/A	Indicative seal (I)
A000055M		0	N/A	N/A	Indicative seal (I)



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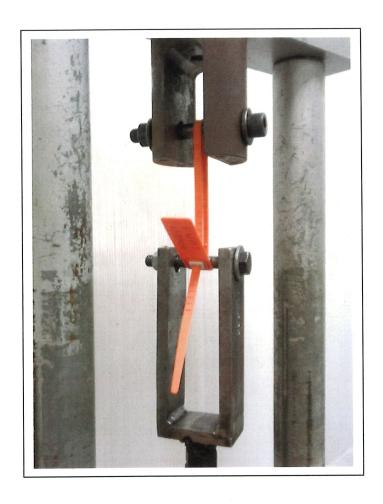
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Impact Set up



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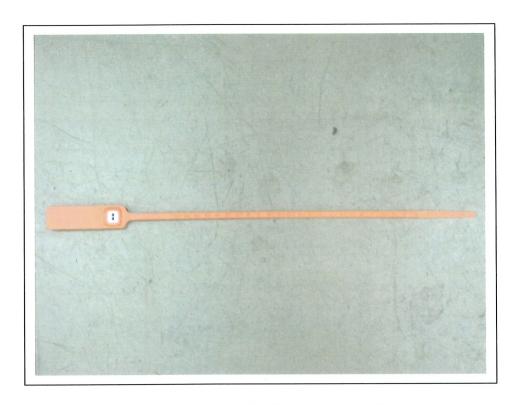
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Name of Article: FORT MEGA POST SEAL

Type: FMPT

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