



Test Report

Report No. TC.26.03.001255

Date of Issue 2026-04-17



Applicant: TCcore Applied Honeycomb Technology Co., LTD
Applicant Address: NO.31,Gongye 1st Rd., Annan Dist.,Tainan City 70955, Taiwan(R.O.C)
Sample Description: ALUMINIUM HONEYCOMB
Style No.: Foil Thickness0.05*Cell Sizeø6.4-NR-Thickness50mm
Manufacturer: Zhangjiagang JiangLian Precision Machinery CO.,LTD
End Use: Exported
Receipt Date of Sample: Received on 001: 2026-03-23
002: 2026-04-14
Date of Testing: 001: From 2026-04-01 to 2026-04-02
002: From 2026-04-14 to 2026-04-16
Sample Submitted: The Sample(s) and Its (Their) Information(s) Was (Were) Submitted by Applicant and Identified.
Test Result: Refer to Next Page.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Prepared by:

Ryan Shan

Ryan Shan

Approved by:

Leo Wang

Leo Wang

Note:

- (1) Each order is subject to acceptance of our [General Terms and Conditions](#) and the [TÜV SÜD Testing, Certification, Validation and Verification Regulation](#), in the version valid at the time the contract is concluded. For full version of above both documents, please visit the link to view.
- (2) The results in this report are relevant only to the sample(s) tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory.
- (4) Disclaimer: Measurement Uncertainty:

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 or CNAS-GL015:2022

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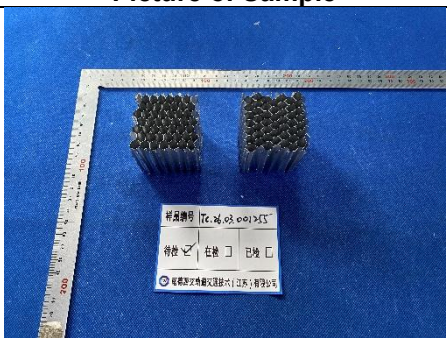
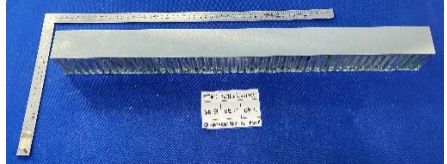


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Description of the test subject

Sample	Description	Picture of Sample
001	ALUMINIUM HONEYCOMB	
002	ALUMINIUM HONEYCOMB	

Conclusion:

Test Items	Standard	Conclusion
1 Flatwise compressive strength	ASTM C365/C365M-22	Pass
2 Shear strength	ASTM C273/C273M-20	Pass

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Test Results

1. Flatwise compressive strength

Test method: ASTM C365/C365M-22

Sample conditioning: (23±2)°C,(50±5)%RH,24h

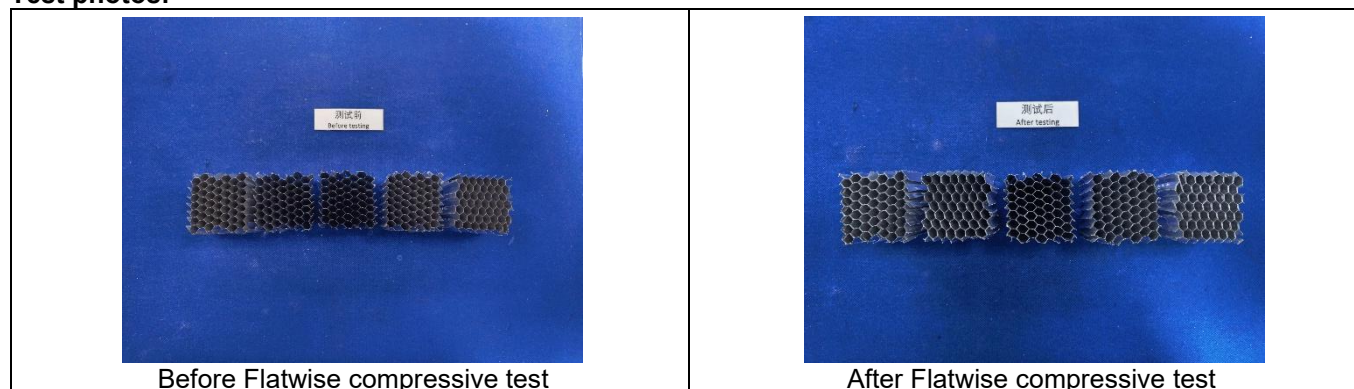
Test environment: 23.2°C,51%RH

Test equipment: Universal material testing machine MC-JB-053, Digital calipers MC-JB-300, Electronic balance MC-JB-016

Test speed: 0.5mm/min

Sample No.	Flatwise compressive strength (MPa)	Failure Mode
001-1	1.76	Uniform compressive failure
001-2	1.72	Uniform compressive failure
001-3	1.72	Uniform compressive failure
001-4	1.79	Uniform compressive failure
001-5	1.77	Uniform compressive failure
Average	1.75	/
Client's requirement	>1	/
Conclusion	Pass	/

Test photos:





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2. Shear strength

Test method: ASTM C273/C273M-20

Sample conditioning: (23±2)°C, (50±5)%RH, 24h

Test environment: 23.3°C, 51%RH

Test equipment: Universal material testing machine MC-JB-053, Digital calipers MC-JB-323

Test speed:0.50mm/min

L:

Sample No.	Core shear strength (MPa)	Failure Mode
002-1	0.981	No damage
002-2	0.979	No damage
002-3	0.979	No damage
002-4	0.979	No damage
002-5	0.983	No damage
Average	0.980	/
Client's requirement	>0.8	/
Conclusion	Pass	/

Remark: The test data exceeded the range of the equipment.

W:

Sample No.	Core shear strength (MPa)	Failure Mode
002-1	0.750	SGE
002-2	0.435	IGE
002-3	0.443	IAT
002-4	0.543	IAT
002-5	0.850	SGE
Average	0.604	/
Client's requirement	>0.47	/
Conclusion	Pass	/



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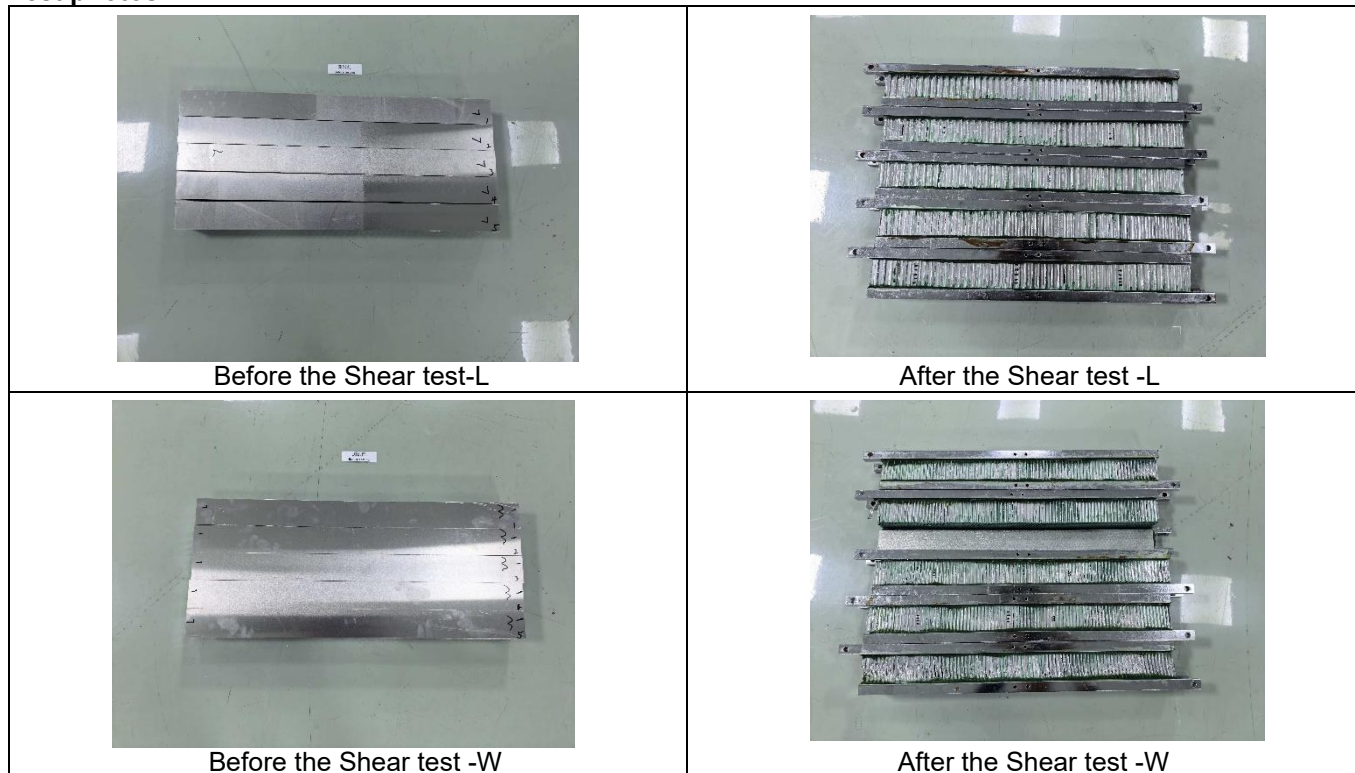
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Test photos:



-End of Report-