

# Tabseer Company

## TEST REPORT

**SCOPE OF WORK**

Insulated Concrete Form

**REPORT NUMBER**

240315010SHF-001-R2

**TEST DATE(S)**

2024-03-15 - 2024-08-01

**ORIGINAL ISSUE DATE**

2024-04-23

**REVISED DATE**

2024-09-09

**PAGES**

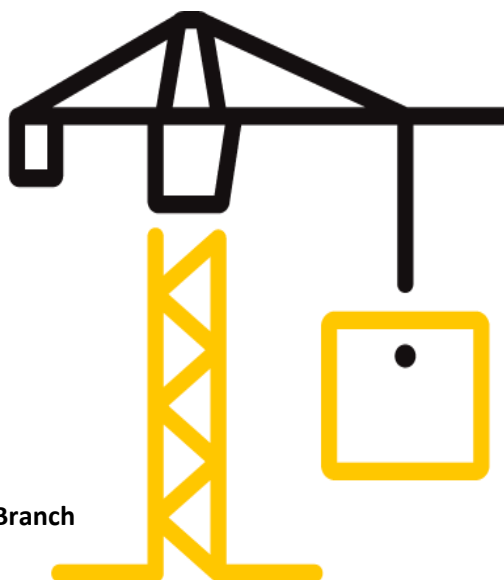
5

**DOCUMENT CONTROL NUMBER**

LFT-APAC-SHF-OP-10I(February 1, 2024)

© 2024 INTERTEK

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch



## Test Report

### Statement

- 1.This report is invalid without company's special seal for testing on the assigned page.
- 2.This report is invalid without an authorized person's signature.
- 3.This report is invalid if altered.
- 4.Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Don't copy this report in partial without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.
- 5.This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample(s) tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- 6.Except for the obligation, responsibility and liability (if any) for the appropriateness and professionalism of afore-mentioned testing itself within the scope and amount of the testing fee received, Intertek does not and will not accept any other obligation or liability.
- 7.If the Client has any questions about the test results, Intertek B&C should be informed within the storage period of the samples. The sample storage period ends 5 working days after the official report issue date. Samples of certification program are retained for the period required by the certification rules. The samples storage period shall be calculated according to the issue date of the original report in the case of quoting results and modifying reports.
- 8.Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.
- 9.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.



# Test Report

Original Issue Date: 2024-04-23 Revised Date: 2024-09-09 Intertek Report No. 240315010SHF-001-R2

Applicant: Tabseer Company

Address: 3571 Imam Saud Bin Abdul-Aziz Bin Mohammed Rd, 8514 King Fahd Dist. 12274 RIYADH, KSA

Attn: Nada El-Khateeb

Manufacturer: ALRAYYAN BUILDING INSULATION FOR INDUSTRY COMPANY

Address: Saudi Arabia, eastern area, Alahssa city, Alahssa industrial city, road 34

Test Type: Performance test, samples provided by the applicant.

### Product Information

Product Name	Model	Specification
Insulated Concrete Form	ICF Insulation Panels	/
Sample ID	Sample Amount	Sample Received Date
S240315010SHF.003, 005, 007~013	1 package	2024-02-19, 2024-07-24
Sample Description		Brand
White foam panel		GWALLS - ORYX BLOCK

### Test Methods And Standards

<b>Test Standard</b>	ASTM C303-21, ASTM C518-21, ASTM C165-23 Procedure A, ASTM C203-22 Method I Procedure B, ASTM E96/E96M-23 Procedure A, ASTM C272/C272M-18, ASTM D2126-20, ASTM D2863-19
<b>Specification Standard</b>	ASTM C578-23
<b>Test Conclusion</b>	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

### Report Authorized

*Daniel Zhang*  *Erin Huang*

Name: Daniel Zhang Title: Reviewer Name: Erin Huang Title: Project Engineer

# Test Report

Original Issue Date: 2024-04-23

Revised Date: 2024-09-09

Intertek Report No. 240315010SHF-001-R2

**Test Items, Method and Results:**

**ASTM C578-23 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation**

Test items	Test Methods	Test Results	Test Requirements	Verdict
Density	ASTM C303-21	26.4 kg/m <sup>3</sup>	Min.: 22 kg/m <sup>3</sup>	Pass
Dimensions	ASTM C303-21	Length: 1193.64 mm Width: 398.16 mm Thickness: 60.45 mm	Length: ±2.5 mm/m Width: ±5.0 mm/m Thickness: ±59.5 mm/m	Pass
Thermal resistance	ASTM C518-21	Mean temperature: 24°C 0.876 (m <sup>2</sup> ·K)/W	Mean temperature: 24°C ≥ 0.70 (m <sup>2</sup> ·K)/W	Pass
Compressive resistance at 10% deformation	ASTM C165-23 Procedure A	186 kPa	Min.: 104 kPa	Pass
Flexural strength	ASTM C203-22 Method I, Procedure B	271 kPa	Min.: 240 kPa	Pass
Water Vapor Permeance	ASTM E96/E96M-23 Procedure A, Desiccant Method at 23°C, 50%RH	146.2 ng/Pa·s·m <sup>2</sup>	Max.: 201 ng/Pa·s·m <sup>2</sup>	Pass
Water absorption by total immersion	ASTM C272/C272M-18	0.04% by volume	Max.: 3.0 %	Pass
Dimensional Stability (change in dimensions)	ASTM D2126-20	7 days at 70°C, 97%RH Side length 1: 0.26% Side length 2: 0.28% Thickness: 0.27%	Max.: 2.0 %	Pass
		7 days at -40°C, ambient humidity Side length 1: 0.05% Side length 2: 0.05% Thickness: 0.21%	Max.: 2.0 %	Pass
Oxygen index <sup>4</sup>	ASTM D2863-19	24.17%	Min.: 24.0 %	Pass

Note:

- The test requirements were cited from ASTM C578-23. The product type II in the standard specification was specified by the applicant.
- Nominal dimension: 1195mm×400mm×60mm
- The test results of oxygen index relate only to the behaviour of the test specimens under the conditions of this test and that these results shall not be used to infer the fire hazards of the materials in other forms or under other fire conditions.



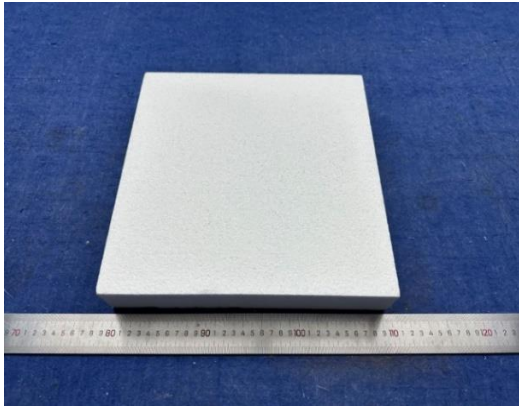
# Test Report

Original Issue Date: 2024-04-23

Revised Date: 2024-09-09

Intertek Report No. 240315010SHF-001-R2

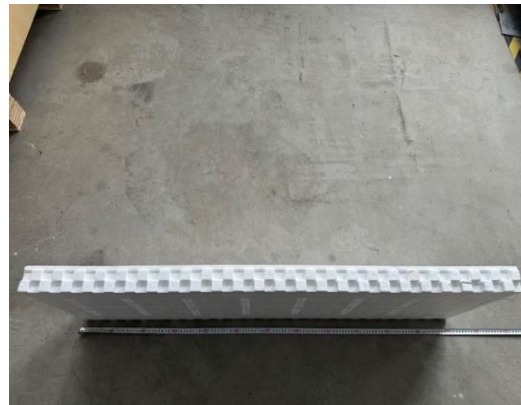
## Appendix A: Sample Received Photo



View 1 - Dimensions (Received on 2024-07-24)



View 2 - Dimensions (Received on 2024-07-24)



Side view - Dimensions (Received on 2024-07-24)



### Revision:

NO.	Date	Changes
240315010SHF-001	2024-04-23	First issue
240315010SHF-001-R1	2024-08-01	Update the result of density, dimensions, compressive resistance and water vapor permeance. Add the test requirement and verdict.
240315010SHF-001-R2	2024-09-09	Update the brand as per applicant's requirement

Note: Since the issue date of 240315010SHF-001-R2 report, the original report 240315010SHF-001-R1 was cancelled at the same time.