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### TEST REPORT

REPORT NO : 2023CE1399-A1

PAGE : 1 OF 4

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### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : TERRACOTTA TILES CENTRE SDN BHD  
NO.15 JALAN PENDIDIK U1/31  
HICOM GLENMARIE INDUSTRIAL PARK  
40150 SHAH ALAM  
SELANGOR MALAYSIA

Manufacturer : BEST TILE WORKS SDN. BHD.  
5 1/2 Miles, Jalan Kapar, 42100 Klang, Selangor

Product : Ceramic Tile

Reference Standard / Method of Test : 1) MS ISO 13006 : 2020  
Ceramic Tiles - Definitions, Classification, Characteristics and Marking  
(Second Revision) (ISO 13006: 2018, MOD)  
2) MS ISO 10545 – 13 : 2018  
Ceramic tiles - Part 13 : Determination of chemical resistance

Description of sample : Received one (1) sample for testing. The sample was identified as:  
Product : Ceramic Tile  
Product details : Refer Page 3

Date Received of Complete Application : 12 June 2023

Job No. : J20233671064

Description of Test Results : The test results of the submitted test sample are described in Page 3 of this test report

Issued Date : 13 June 2023

Approved Signatory;

  
IKM M/1700/3994/99

(ChM. ROHAIDAH BINTI IBRAHIM)  
Principal Testing Executive





(HAHNAS BINTI MAHBUT)  
Head

Chemical, Polymer and Composite Section  
Testing Services Department

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**NOTES:**

- 1) This is a supplementary Test Report
- 2) This supplementary Test Report is issued to:
  - 2.1) Amend the manufacturer's name in Page 1; Product's size and Product's description in Page 3 as requested by the Applicant.
  - 2.2) Include additional Brand in Page 3 as requested by the Applicant.
  - 2.3) Re-arrange results' table and include remark for clearer understanding of the test results
- 3) This supplementary Test Report shall cancel and replace Test Report 2023CE1399 dated 08 June 2023



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## TEST RESULTS

**Product** : Ceramic tile  
**Brand** : GNG, BEST TILE  
**Model** : GROUP Bib  
**Type** : FIRST GRADE  
**Size** : 100x100x10mm, 50x50x5mm  
**Rating** : NON MODULAR  
**Product Description** : Lampang Tile (INTENDED FOR SWIMMING POOL)

### A. CHEMICAL RESISTANCE TO HOUSEHOLD CHEMICAL

No.	Test Solution	Result	Class
1.	Ammonium Chloride	No visible effects	A(V)

### B. CHEMICAL RESISTANCE TO SWIMMING POOL SALT

No.	Test Solution	Result	Class
1.	Sodium Hypochlorite	No visible effects	A(V)

### C. CHEMICAL RESISTANCE TO LOW CONCENTRATION ACIDS AND ALKALI

No.	Test Solutions	Results	Class
1.	Hydrochloric Acid, 3%	No visible effects	LA(V)
2.	Citric Acid, 100g/l	No visible effects	LA(V)
3.	Potassium Hydroxide, 30g/l	No visible effects	LA(V)

### D. CHEMICAL RESISTANCE TO HIGH CONCENTRATION ACIDS AND ALKALI

No.	Test Solutions	Results	Class
1.	Hydrochloric Acid, 18%	No visible effects	HA(V)
2.	Lactic Acid, 5%	No visible effects	HA(V)
3.	Potassium Hydroxide, 100g/l	No visible effects	HA(V)

#### Remarks:

- 1) Class A(V), LA(V) and HA(V) indicated that the product did not change in appearance after immersion in related chemicals
- 2) (V) signifies visual classification



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#### CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. Measurement uncertainty shall be included in the Test Report when there is no statement of conformity required. When a statement of conformity to a specification or standard is applied, the Simple Acceptance Rule is used. Unless otherwise stated, the Acceptance Rule with Guard Band is used.
2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory,etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, items and products.
6. Subject to consent and written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the customer (Applicant/Manufacture/Factory,etc.) may use SIRIM QAS International logo or word on the promotional materials and the Applicant shall only include the phrase, "A sample of this product has been tested by SIRIM QAS International ...(Test Report No) ...(dated) ...(for what test) ...(to which standard)" or such similar words which stress that only the sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures/flyers/official website). For avoidance of doubt, the statement shall not be used on the sample, packaging of the sample, items and products.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
  - a) Informing and placing a notice in the media;
  - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
  - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
  - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
  - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
9. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, additional certified true copy(ies) or softcopy of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee. The certified true copy(ies) or softcopy of test report shall only be given for test report issued not more than three (3) years from the date of issuance.
10. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
  - a) Changes in details of the Applicant name and/or address;
  - b) Changes in details of the Manufacturer's name and/or address;
  - c) Changes in details of the Factory location name and/or address;
  - d) Changes in details of the model and/or type designation
11. However, issuance of Supplementary Report due to the following reasons are FOC :
  - a) Misprints and typo errors;
  - b) Missing technical information as agreed in PP1 form;
  - c) Test data not reported;
  - d) Mistake in reporting of test data
12. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to a maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.