



**SIRIM QAS International Sdn. Bhd.**  
**Company No. 199601037981 (410334-X)**  
No.1, Persiaran Dato' Menteri, P.O.BOX 7035, Section 2,  
40700 Shah Alam, Selangor Darul Ehsan, Malaysia  
Tel: 011 - 1177 6516  
<http://www.sirim-qas.com.my/>

## TEST REPORT

REPORT NO : 2026CB0080

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Unless otherwise stated, the results shown in this Test Report shall be valid exclusively for the specific sample either provided by the Applicant or sampled by the qualified officer and tested by SIRIM QAS International Sdn. Bhd. In deriving the results of this Test Report, SIRIM QAS International Sdn. Bhd. has relied solely on the sample and data information provided by the Applicant, in accordance with the applicable standards requested by the Applicant in the Application Form. This Test Report shall not be reproduced, except in full, without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International Sdn. Bhd. Kindly refer to the last page of this Test Report for the 'Conditions Relating to the Use of SIRIM QAS International Sdn. Bhd. Test Report'.

**Applicant** : VIVO RAISER SDN BHD  
No.9 & 10, Jalan Pknk 3/7, Kawasan Perusahaan  
Sungai Petani, 0800 Sungai Petani  
Kedah, Malaysia

**Manufacturer** : Same as above

**Product** : TPS Cement Mortar 188

**Reference Standard / Method of Test** : MS EN 413-1: 2012,  
Masonry Cement – Part 1: Compositions, specifications, and conformity  
criteria (Second revision)  
Clause 5.3: Physical and Mechanical requirement  
Clause 5.4: Chemical requirement

**Description of sample/ Description of Test Specimen** : One (1) type of 5 kg Masonry Cement was received for testing.  
Type: MC 12.5, Brand: TPS

*Disclaimer: All the information stated above has been provided/agreed by the Applicant. SIRIM QAS International Sdn. Bhd. shall not be held responsible for the accuracy, completeness, or validity of the information provided by the Applicant which may affect the validity of the test results. The accuracy and reliability of the test results are contingent upon the integrity and accuracy of the information provided by the Applicant.*

**Date Received of Complete Application** : 07 January 2026

**Job No.** : J20261430017

**Description of Test Results/ Overall Test Result** : This test report covers only test Clauses as requested by Applicant to SIRIM QAS International Sdn Bhd. The test results for the submitted test samples as described in this test report complied with the requirements of the above reference standard at the respective Clauses tested

**Issued Date** : 30 January 2026

Approved Signatory;

(NUR AIN BINTI KHAIRUDDIN)  
Testing Executive



(PA) ANOR SIHA BINTI RAJA ABDUL HANAN)  
Head  
Civil & Construction Section  
Testing Services Department

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**TEST RESULTS:**

Product : TPS Cement Mortar 188  
 Type : MC 12.5  
 Method of test : a) MS EN 413-1: 2022, Masonry Cement – Part 1: Compositions, specifications, and conformity criteria (Second revision)  
 b) MS EN 413-2: 2021, Masonry Cement – Part 2: Test Methods (Second revision)  
 c) MS EN 196-1: 2021, Methods of testing cement – Part 1: Determination of strength  
 d) MS EN 196-3: 2022, Methods of testing cement – Part 3: Determination of setting time and soundness  
 e) MS EN 196-2: 2020, Methods of testing cement – Part 2: Chemical analysis of cement.  
 f) MS EN 196-6: 2021, Methods of testing cement – Part 6: Determination of fineness. Clause 5: Air-jet sieving method

CLAUSE	REQUIREMENTS	TEST RESULT	REMARK*
5.3	<b>Strength Class MC 12.5 Physical and mechanical requirements</b>		
5.3.1	(1) Fineness (sieve residue): not more than 15 %	0.58 %	Pass
5.3.2	Initial Setting Time: ≥ 60 minutes	105 minutes	Pass
5.3.3	Final Setting Time: ≤ 6 hours, no requirement	265 minutes	-
5.3.4	Soundness: not more than 10 mm	1.0 mm	Pass
5.3.5	Fresh mortar requirement a) Air content: 8 % ≤ air content % by volume ≤ 22 % b) Water retention: ≥ 80 % by mass	13 % 99.67 %	Pass Pass
5.3.6	Compressive strength a) Early Strength: 7 days ≥ 7.0 MPa. b) Standard Strength: 12.5 MPa ≤ 28 days ≤ 32.5 MPa	17.3 MPa 20.0 MPa	Pass Pass
5.4	(2) <b>Chemical requirements</b> a) Sulfate content as SO <sub>3</sub> , % w/w: ≤ 3.5 % c) Chloride content as Cl, % w/w: ≤ 0.10 %	1.9 % 0.01 %	Pass Pass

Note:

1) (1) Not SAMM Accredited

2) (2) Test conducted by Chemical, Polymer &amp; Composite Section, Testing Services Department, SIRIM QAS International Sdn Bhd under SAMM Accredited (SAMM No: 087).

3) \*Simple acceptance rule is used for the conformity statement. The level of risk regarding the probability of false accept is up to 50% according to ILAC G8:09

4) Testing period – 1<sup>st</sup> October 2025 to 29<sup>th</sup> October 2025

5) Testing Location – Civil &amp; Construction Section, Building 22, SIRIM Complex, Shah Alam, Selangor for Clause 5.3

		
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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 the Testing Services conducted and shall relate only to the sample actually tested by SIRIM QAS International. The results in the Test Report will be based on all the information provided by the Applicant, unless otherwise stated. SIRIM QAS International makes no warranties whatsoever, and the Applicant shall not represent in any manner that any duplication or mass production of the Product is identical to the Sample actually tested, or that SIRIM QAS International has tested any duplicated or mass-produced Product. Measurement uncertainty shall be included in the Test Report when no statement of conformity is required.
2. For quantitative test results (with values), when a statement of conformity to a specification or standard is applied, the Simple Acceptance Rule shall be used. Unless otherwise stated, the Acceptance Rule with Guard Band will be applied, and an additional charge will be incurred accordingly.
3. For qualitative test results (visual observation), when requested by the applicant, a statement of conformity shall be included in the Test Report. If there is no request by the Applicant, a statement of conformity can be included in the Test Report based on SIRIM QAS International Sdn. Bhd.'s discretion.
4. The Applicant shall not at any time misrepresent the content of any Test Report provided by SIRIM QAS International Sdn. Bhd., nor shall the Test Report be misused, amended, changed, varied, or modified in any manner whatsoever by the Applicant or otherwise.
5. The Test Report shall not be reproduced, except in full, without the written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No. 1, Block 8, Persiaran Dato' Menteri, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
6. The Applicant is not permitted to use any SIRIM QAS International Sdn. Bhd., SIRIM Berhad or other SIRIM subsidiaries logos or words on packaging, sample manuals, technical specifications, items and products.
7. Subject to consent and written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International Sdn. Bhd., the Applicant may use the SIRIM QAS International Sdn. Bhd. logo or word on promotional materials. The Applicant shall only include the phrase, "A sample of this product has been tested by SIRIM QAS International Sdn. Bhd. (Test Report No) ... (dated) ... (for what test) ... (to which standard)", or similar words emphasizing that only the sample was tested. This phrase shall only be used for product advertisements or promotions (e.g.: brochures, flyers, official website). For clarity, the statement shall not be used on the sample, packaging, items or products.
8. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International Sdn. Bhd. may disclose the information pertaining to the Test Report for the purposes of such investigation.
9. In the event that the Applicant is found in breach of this provision, SIRIM QAS International Sdn. Bhd., SIRIM Berhad and/or other SIRIM subsidiaries may, without prejudice to any other rights and remedies, take whatever actions are necessary including but not limited to:
  - a) Informing and placing a notice in the media;
  - b) Obtaining an injunction from the Court (costs on a solicitor-client basis to be borne by the Applicant);
  - c) Refusing to accept any further Products 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 to publish a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM 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 to the Applicant's Test Report with the relevant authorities.
10. SIRIM QAS International is committed to supporting environmentally friendly business practices by reducing paper consumption. Therefore, we do not issue any hard copies of the Test Report to the Applicant. However, additional certified true copies or softcopies of the Test Report may be issued upon request by the Applicant, subject to payment of the relevant fee. Certified true copies or softcopies of the Test Report shall only be provided for Test Reports issued not more than **three (3) years** from the date of issuance.
11. The Issuance of an Amendment Report due to the following reasons is chargeable to the Applicant:
  - a) Typo or change<sup>1</sup> in details of the Applicant's name and/or address; or
  - b) Typo or change<sup>1</sup> in details of the Manufacturer's name and/or address; or
  - c) Typo or change<sup>1</sup> in details of the Factory location name and/or address; or
  - d) Typo or change<sup>1</sup> in details of the brand, size, model and/or type designation; or
  - e) Typo in details of the description of sample.Note: <sup>1</sup>Applicable only for electrical and electronic products based on IECCE OD-2020.
12. Any corrections and/or changes to the Report requested by the Applicant shall only be allowed if the date of issuance of the original Test Report has not exceeded six (6) months and shall be limited to a maximum of three (3) times. After either of these conditions is met, no further amendments to the Test Report shall be issued.
13. However, the issuance of a Supplementary Report due to the following reasons is free of charge (FOC):
  - a) Misprints and typographical errors;
  - b) Missing technical information as agreed in the PP1 form;
  - c) Test data not reported; or
  - d) Mistakes in the reporting of test data.