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TEST REPORT

REPORT NO : 2022CE1322	PAGE : 1 OF 5
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Applicant : WEIDA INTEGRATED INDUSTRIES SDN. BHD.
Lot 109, Jalan AM2
Arab Malaysian Industrial Park
71800 Nilai
Negeri Sembilan

Manufacturer : - same as above -

Product : HDPE CORRUGATED SUBSOIL DRAINAGE PIPE

Reference Standard / Method of Test : AS 2439, Part 1 - 1981 - Australian Standard - Perforated Plastics Drainage and Effluent Pipe and Fittings - Part 1: Perforated Drainage Pipe and Associated Fittings

Description of sample : New test samples indicated above were received on 19 May 2022. Photograph of the test samples is shown in Appendix B.

Date Received of Complete Application : 19 May 2022

Job No. : J20223671031

Description of Test Results : 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 reference standard at the respective clauses tested.

Issued Date : 03 June 2022

Approved Signatory;

(MOHAMAD FAIS BIN NORDIN)
Testing Executive



(HAHNAS BINTI MAHBUT)
Head

Chemical, Polymer and Composite Section
Testing Services Department

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Results

Product : HDPE Corrugated Subsoil Drainage Pipe
Brand : WEIDALINE
Type : Type 1 Corrugated Pipe
Rating : Class 200
Size : 100 mm & 160 mm
Description : HDPE Corrugated Subsoil Drainage Pipe

TEST	REQUIREMENT	RESULT	REMARK								
Pipe Stiffness Test method: Appendix H of AS 2439.1 Test parameters: • Test speed: 11 mm/minute • No. of test specimens tested: 3 pieces Test date: 31 May 2022	<u>Clause 10.6 and Table 3 of AS 2439.1: 1981</u> <table><tr><th rowspan="2">Class</th><th colspan="2">Stiffness</th></tr><tr><th>5% Deflection</th><th>10% Deflection</th></tr><tr><td>200</td><td>200</td><td>160</td></tr></table>	Class	Stiffness		5% Deflection	10% Deflection	200	200	160	Refer Tables A.1 and A.2	Pass
Class	Stiffness										
	5% Deflection	10% Deflection									
200	200	160									



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Appendix A

Table A.1. Test Result for 'HDPE Corrugated Subsoil Drainage Pipe; 100 mm' Pipe Stiffness

Specimens	Mean Inside Diameter, mm	Mean Length, mm	Stiffness, kN/m ²	
			5% Deflection	10% Deflection
1	85.7	294.7	292	312
2	85.1	294.6	270	296
3	85.3	294.6	288	306

Table A.2. Test Result for 'HDPE Corrugated Subsoil Drainage Pipe; 160 mm' Pipe Stiffness

Specimens	Mean Inside Diameter, mm	Mean Length, mm	Stiffness, kN/m ²	
			5% Deflection	10% Deflection
1	133.4	309.4	399	367
2	132.9	309.9	378	356
3	133.0	309.3	375	353



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Appendix B

Test Sample Received for Testing

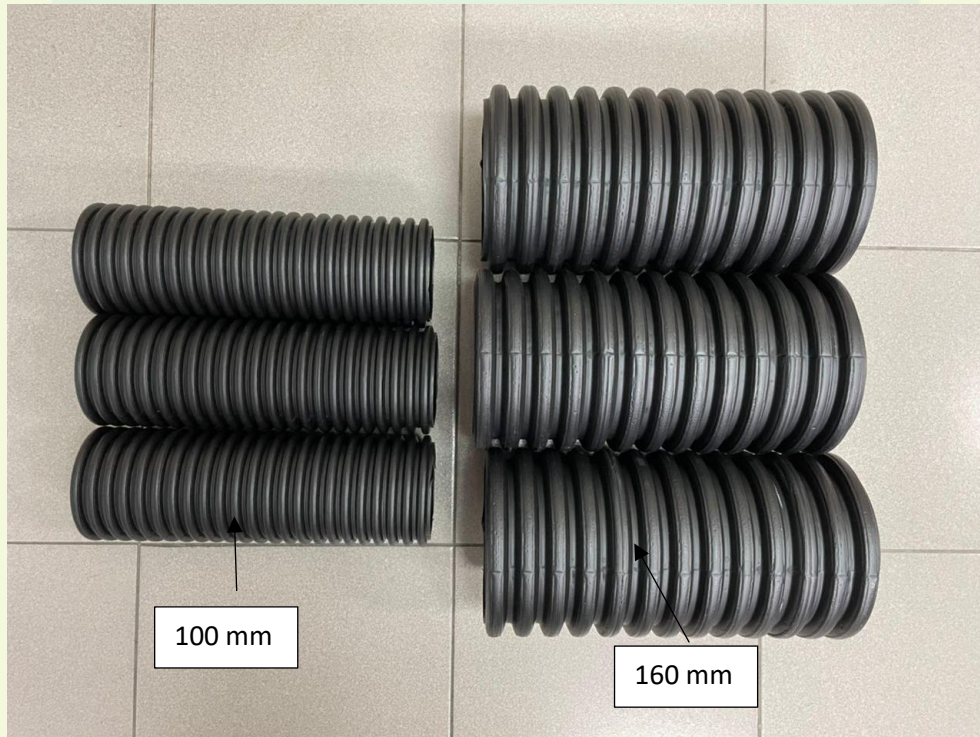


Figure B.1. Photograph of 'HDPE Corrugated Subsoil Drainage Pipe' Samples



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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.