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REPORT

Attn: Mr. Bimal Seebaran

Project Code: EC03826544/24

Client: ABEL BUILDING SOLUTIONS – ANSA MCAL ENTERPRISES LTD

Client Address: Depot Road Longdenville, Chaguanas

Report Title: Testing of 60mm Brick Pavers

Report No: 0326/24/01

Project Chief: Lisa Ramoutar

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Reviewed By: Lisa Ramoutar for Neal Hassim, Civil Technologist **Date:** 2024/01/12

Authorized By: Lisa Ramoutar Lisa Ramoutar, Laboratory Manager **Date:** 2024/01/12

Copy No: 1 of 1 **Appendices:** ☐

Report Version: **ORIGINAL** ☒ **RE-ISSUE** ☐ **AMENDED** ☐

Introduction

The client submitted six (6) 60mm Brick Pavers for water absorption and compressive strength determination. The samples were submitted on November 20, 2023 and were assigned CARIRI Identification numbers T240336 to T240341.

Approach

Guidelines given in *ASTM C140-18a: Standard test method for sampling and testing of concrete masonry units* were used in the investigation.

Results

Testing period: December 05, 2023 to January 05, 2024

Test results are presented in Tables 1 and 2.

Table 1: Compressive strength results of 60mm Brick Pavers

CARIRI ID	Avg. overall dimensions LxBxH (mm)	Net cross-sectional area (mm^2)	Load (N)	Net area compressive strength (N/mm^2)	Requirements of ASTM C936-16
T240336	199×98×61	19 200	1198 902	62.4	**Minimum Compressive Strength** - Average of 3 units shall be 55 MPa (N/mm^2) and for any individual block shall be 50 MPa (N/mm^2)
T240337	199×99×60	19 200	1231 827	64.0	
T240338	198×99×59	19 050	1050 227	55.1	
			Average	60.5	

Date tested: January 05, 2024

Table 2: Water absorption results of 60mm Brick Pavers

CARIRI ID	Oven dry density (kg/m^3)	Water absorption (%)	Requirements of ASTM C936-16
T240339	2130	6.1	**Maximum Water absorption -** Average of 3 units shall be 5% and for any individual unit shall be 7%
T240340	2087	6.3	
T240341	2042	6.1	
Average	2086	6.2	

Date tested: December 05 to 07, 2023

END OF REPORT