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## **REPORT**

Attn:	Mr. Bimal Seebaran
Project Code:	EC03826713/23
Client:	ABEL BUILDING SOLUTIONS - ANSA MCAL ENTERPRISES LTD
Client Address:	Churchill Roosevelt Highway, Golden Grove, Arouca
Report Title:	Testing of 60 mm Brick Pavers
Report No:	1032/23/01
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Reviewed By:	Lisa Ramoutar, Laboratory Manager  Date: 2023/07/14
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Сору No:	1 of 1 Appendices:
Report Version:	ORIGINAL RE-ISSUE AMENDED



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Client: Abel Building Solutions – ANSA McAl Enterprises Ltd Client Ref#: PO E001P00017445-1

## Introduction

The client submitted six (6) 60 mm Brick Pavers for determination of compressive strength and water absorption. The samples were submitted on June 13, 2023 and were assigned CARIRI Identification numbers T231423 to T231428.

## **Approach**

Guidelines given in *ASTM C140-18a: Standard test method for sampling and testing of concrete masonry units* were used in the investigation. Sample requirements are extracted from ASTM C936-16: *Standard Specification for Solid Concrete Interlocking Paving Units*.

## Results

Testing period: June 14 to 29, 2023

Test results are presented in Tables 1 and 2.

Table 1: Compressive strength results of 60 mm Brick Pavers

CARIRI ID	Avg. overall dimensions L x B x H (mm)	Net cross- sectional area (mm²)	Load (N)	Net area compressive strength (N/mm²)	Requirements of ASTM C936-16
T231423	199×99×60	19 502	1 293 300	66.3	Minimum Compressive Strength - Average of 3 units
T231424	199×99×60	19 502	1 115 350	57.2	shall be 55 MPa (N/mm²)
T231425	199×99×62	19 104	1 251 500	65.5	For any individual block shall be
			Average	63.0	50 MPa (N/mm²)

Table 2: Water absorption results of 60 mm Brick Pavers

CARIRI ID	Oven dry density (kg/m³)	Water absorption (%)	Requirements of ASTM C936-16	
T231426	2214	4.3	Maximum Water absorption - Average of 3 units shall be 5% and for any individual unit shall be 7%	
T231427	2154	5.4		
T231428	2177	4.8		
Average	2182	4.8		

☐ Test Laboratory: CARIRI Materials Laboratory, Trincity West Industrial Estate, Macoya