



Caribbean Industrial Research Institute

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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 Contemporary Pavers

**Report No:** 0414/24/01

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**Reviewed By:** *Neal Hassim* **Date:** 2024/02/06  
Neal Hassim, Civil Technologist

**Authorized By:** *Lisa Ramoutar* **Date:** 2024/02/06  
Lisa Ramoutar, Laboratory Manager

**Copy No:** 1 of 1 **Appendices:**

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

## Introduction

The client submitted six (6) 60mm Contemporary Pavers for water absorption and compressive strength determination. The samples were submitted on November 20, 2023 and were assigned CARIRI Identification numbers T240369 to T240371A

## 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 18, 2023 to January 29, 2024

Test results are presented in Tables 1 and 2.

Table 1: Compressive strength results of 60mm Contemporary Pavers

CARIRI ID	Avg. overall dimensions LxBxH (mm)	Net cross-sectional area (mm <sup>2</sup> )	Load (N)	Net area compressive strength (N/mm <sup>2</sup> )	Requirements of ASTM C936-16
T240369	210.0×140.0×60.0	29 200	1 749 700	59.9	<b>Minimum Compressive Strength</b> - Average of 3 units shall be 55 MPa (N/mm <sup>2</sup> ) and for any individual block shall be 50 MPa (N/mm <sup>2</sup> )
T240369A	207.5×140.0×60.0	28 450	1 831 750	64.4	
T240370	210.0×140.0×60.0	29 200	1 880 750	64.4	
			Average	62.9	

Date tested: January 29, 2024

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Table 2: Water absorption results of 60mm Contemporary Pavers

CARIRI ID	Oven dry density (kg/m <sup>3</sup> )	Water absorption (%)	Requirements of ASTM C936-16
T240370A	2083	6.7	<b>Maximum Water absorption -</b> Average of 3 units shall be 5% and for any individual unit shall be 7%
T240371	2114	5.4	
T240371A	2111	5.3	
Average	2103	5.8	

Date tested: December 18 to 27, 2023

**END OF REPORT**

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