



Caribbean Industrial Research Institute

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REPORT

Attn: Mr. Bimal Seebaran

Project Code: EC03826773/25

Client: ABEL BUILDING SOLUTIONS – ANSA MCAL ENTERPRISES LTD

Client Address: Depot Road Longdenville, Chaguanas


Report Title: Testing of 60mm Duo Pavers

Report No: 0078/26/01

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Reviewed By:



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Date: 2025/10/21

Authorized By:



Lisa Ramoutar, Laboratory Manager

Date: 2025/10/21

Copy No:

1 of 1

Appendices: ☐

Report Version:

ORIGINAL ☒

RE-ISSUE ☐

AMENDED ☐

Introduction

The client submitted six (6) 60mm Duo Pavers labelled "COL 16" for water absorption and compressive strength determination. The samples were submitted on May 21, 2025 and were assigned CARIRI Identification numbers T251413 to T251415 and T251419 to T251421.

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: June 30 to October 09, 2025

Test results are presented in Tables 1 and 2.

Table 1: Compressive strength results of 60mm Duo Pavers (160mm x 240mm)

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
T251413	237.5×157.5×60.0	37 400	2 176 350	58.2	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)
T251414	237.5×160.0×60.0	38 000	2 335 650	61.5	
T251415	237.5×160.0×60.0	38 000	2 106 850	55.4	
			Average	58.4	

Date tested: October 09, 2025

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Table 2: Water absorption results of 60mm Duo Pavers (160mm x 240mm)

CARIRI ID	Oven dry density (kg/m ³)	Water absorption (%)	Requirements of ASTM C936-16
T251419	2111	5.3	Maximum Water absorption - Average of 3 units shall be 5% and for any individual unit shall be 7%
T251420	2045	6.7	
T251421	2067	6.5	
Average	2074	6.2	

Date tested: June 30 to July 04, 2025

END OF REPORT

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