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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 I-Pavers

Report No: 1030/23/01

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Reviewed By:

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Date: 2023/07/14

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Date: 2023/07/14

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1 of 1

Appendices:

Report Version:

ORIGINAL

RE-ISSUE

AMENDED

Introduction

The client submitted six (6) 60 mm I-Pavers for determination of compressive strength and water absorption. The samples were submitted on June 13, 2023 and were assigned CARIRI Identification numbers T231411 to T231416.

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 I Pavers

CARIRI ID	Avg. overall dimensions L x B x H (mm)	Net cross-sectional area (mm ²)	Load (N)	Net area compressive strength (N/mm ²)	Requirements of ASTM C936-16
T231411	194×143×61	23 086	1 328 100	57.5	Minimum Compressive Strength - Average of 3 units shall be 55 MPa (N/mm ²) For any individual block shall be 50 MPa (N/mm ²)
T231412	194×143×60	23 280	1 445 600	62.1	
T231413	194×143×61	23 086	1 318 050	57.1	
			Average	58.9	

Table 2: Water absorption results of 60 mm I Pavers

CARIRI ID	Oven dry density (kg/m ³)	Water absorption (%)	Requirements of ASTM C936-16
T231414	2159	5.5	Maximum Water absorption - Average of 3 units shall be 5% and for any individual unit shall be 7%
T231415	2127	6.2	
T231416	2096	7.2	
Average	2127	6.3	

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