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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 8" x 8" x 16" SP concrete blocks
Report No:	0113/26/01
Project Chief:	Lisa Ramoutar
Author(s):	Kareem Jennings
Reviewed By:	Neal Hassim, Civil Technologist Date: 202/10/23
Authorized By:	
	Lisa Ramoutar, Laboratory Manager Date: 2025/10/23
Copy No: 1 of 1	Appendices:
Report Version:	ORIGINAL RE-ISSUE AMENDED



Project Code: EC03826773/25 Report No: 0113/26/01

Client: Abel Building Solutions – ANSA McAl Enterprises Ltd

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Introduction

The client submitted six (6) 8 inch concrete blocks labeled " $190 \times 190 \times 390 \text{ SP}$ " for water absorption and compressive strength determination. The samples were submitted on May 21, 2025 and were assigned CARIRI Identification numbers T251374 to T251379.

Approach

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

Results

Testing period: October 17 to 22, 2025.

Test results are presented in Tables 1 and 2.

Table 1: Compressive strength results of 8 inch concrete blocks

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CARIRI ID	Client ID	Avg. overall dimensions LxBxH (mm)	Net cross- sectional area (mm²)	Load (N)	Net area compressive strength (N/mm²)	Requirements of ASTM C90- 16a
T251374	190×190×390 SP	392.5×190.0×190.0	48 800	1 107 000	22.7	Min. net area compressive strength
T251375		392.5×190.0×190.0	48 700	979 200	20.1	Average of 3 units - 13.8
T251376		392.5×190.0×190.0	48 800	980 950	20.1	N/mm ²
				Average	21.0	Individual unit - 12.4 N/mm²

Date tested: October 22, 2025

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Table 2: Water absorption results of 8 inch concrete blocks

CARIRI ID	Client ID	Oven dry density (kg/m³)	Water absorption (kg/m³)	Requirements of ASTM C90-16a
T251377	100-100-200	2160	111	Max. water absorption
T251378	190×190×390 - SP	2163	113	For conc. density >2000 kg/m ³
T251379	J 5r	2173	111	Average of 3 units - 208 kg/m ³
	Average	2165	112	Individual unit – 240 kg/m³

Date tested: October 17 to 22, 2025

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

END OF REPORT

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