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REPORT

Attn:	Mr. Bimal Seebaran			
Project Code:	EC03826634/25			
Client:	ABEL BUILDING SOLUTIONS - ANSA MCAL	ENTERPRISES LTD		
Client Address:	Depot Road Longdenville, Chaguanas			
Report Title:	Testing of 6" x 8" x 16" Col 1600 concrete b	blocks		
Report No:	0862/25/01			
Project Chief:	Lisa Ramoutar			
Author(s):	Vinesh Lall and Adrian Cruickshank			
Reviewed By:	Neal Hassim, Civil Technologist	Date: 7025/05/09		
Authorized By:	Lisa Ramoutar, Laboratory Manager	Date: 2025/05/09		
Copy No: 1 of 1	Appendices:			
Report Version:	ORIGINAL RE-ISSUE	AMENDED _		



Project Code: EC03826634/25 Report No: 0862/25/01

Client: Abel Building Solutions – ANSA McAl Enterprises Ltd

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Introduction

The client submitted six (6) 6 inch concrete blocks labeled " $140 \times 190 \times 390$ Col 1600" for water absorption and compressive strength determination. The samples were submitted on February 11, 2025 and were assigned CARIRI Identification numbers T250741 to T250746.

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: February 17 to May 07, 2025.

Test results are presented in Tables 1 and 2.

Table 1: Compressive strength results of 6 inch concrete blocks

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
T250741	140×100×200	390.0×140.0×190.0	30 750	984 100	32.0	Min. net area compressive strength
T250742	140x190x390 Col 1600	390.0×140.0×190.0	30 750	881 450	28.7	Average of 3 units - 13.8 N/mm ² Individual unit - 12.4 N/mm ²
T250743		390.0×140.0×190.0	30 750	863 750	28.1	
				Average	29.6	

Date tested: May 07, 2025

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Table 2: Water absorption results of 6 inch concrete blocks

CARIRI ID	Client ID	Oven dry density (kg/m³)	Water absorption (kg/m³)	Requirements of ASTM C90-16a	
T250744	- 140x190x390 - Col 1600	2136	110	Max. water absorption	
T250745		2127	119	For conc. density >2000 kg/m ³	
T250746		2145	111	Average of 3 units - 208 kg/m ³	
	Average	2136 1	113	Individual unit – 240 kg/m³	

Date tested: February 17 to 19, 2025

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

END OF REPORT

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