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REPORT

Mr. Bimal Seebaran								
EC03826634/25								
ABEL BUILDING SOLUTIONS - ANSA MCAL ENTERPRISES LTD								
Depot Road Longdenville, Chaguanas								
Testing of 190 x 190 x 390 Col 1600 concrete blocks								
0774/25/01								
Lisa Ramoutar								
Delroy John, Vinesh Lall and Adrian Cruickshank								
Sul Hason Date: 2025/05/01								
Neal Hassim, Civil Technologist								
Date: 2025/05/01								
Lisa Ramoutar, Laboratory Manager								
Appendices:								
ORIGINAL RE-ISSUE AMENDED								

Project Code: EC03826634/25 Report No: 0774/25/01

Client: Abel Building Solutions - ANSA McAl Enterprises Ltd

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Introduction

The client submitted six (6) 8 inch concrete blocks labeled " $190 \times 190 \times 390$ Col 1600" for water absorption and compressive strength determination. The samples were submitted on February 11, 2025 and were assigned CARIRI Identification numbers T250747 to T250752.

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: April 07 to 30, 2025.

Test results are presented in Tables 1 and 2.

Table 1: Compressive strength results of 8 inch concrete blocks

Tuble 1. Compressive strength results of a men contract 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	
T250747	- 190x190x390 Col 1600	390.0×190.0×187.5	39 450	1 032 250	26.2	Min. net area compressive strength	
T250748		392.5×192.5×190.0	40 250	1 131 350	28.1	Average of 3 units - 13.8	
T250749		390.0×192.5×190.0	38 900	1 153 450	29.7	N/mm ²	
				Average	28.0	Individual unit - 12.4 N/mm²	

Date tested: April 30, 2025

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Table 2: Water absorption results of 8 inch concrete blocks

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CARIRI ID	Client ID	Oven dry density (kg/m³)	Water absorption (kg/m³)	Requirements of ASTM C90-16a
T250750	100,100,200	2148	123	Max. water absorption
T250751	190x190x390 Col 1600	2173	111	For conc. density >2000 kg/m ³
T250752	Coi 1000	2171	110	Average of 3 units - 208 kg/m ³
	Average	2164	115	Individual unit – 240 kg/m³

Date tested: April 07 to 10, 2025

END OF REPORT

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