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REPORT

Attn:	Mr. Bimal Seebaran
Project Code:	EC03826713/23
Client:	ABEL BUILDING SOLUTIONS - ANSA MCAL ENTERPRISES LTD
Client Address:	Depot Road Longdenville, Chaguanas
Report Title:	Testing of 6" x 8" x 16" Columbia 1600 concrete blocks
Report No:	0969/23/01
Project Chief:	Lisa Ramoutar
Author(s):	William Calliste and Clarence Fermin
Reviewed By:	Neal Hassim, Civil Technologist Date: 2023/06/27
Authorized By:	Lisa Ramoutar, Laboratory Manager
Copy No: 1 of 1	Appendices:
Report Version:	ORIGINAL RE-ISSUE AMENDED



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Client: Abel Building Solutions – ANSA McAl Enterprises Ltd

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Introduction

The client submitted six (6) 6 inch concrete blocks labeled " $140 \times 190 \times 390$ Columbia 1600" for water absorption and compressive strength determination. The samples were submitted on June 13, 2023 and were assigned CARIRI Identification numbers T231393 to T231398.

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: June 14 to 21, 2023.

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- section al area (mm²)	Load (N)	Net area compressive strength (N/mm²)	Requirements of ASTM C90-16a
T231393	140x190x390 Columbia 1600	389×141×187	31 081	796 273	25.6	Min. net area compressive strength
T231394		389×141×189	31 120	941 170	30.2	Average of 3 units - 13.8 N/mm ²
T231395		388×141×190	31 156	944 819	30.3	Individual unit - 12.4 N/mm²
				Average	28.7	

Date tested: June 21, 2023

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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
T231396	140x190x390	2160	113	Max. water absorption
T231397	Columbia	2157	115	For conc. density >2000 kg/m ³
T231398	1600	2160	116	Average of 3 units - 208 kg/m ³
	Average	2159	114	Individual unit – 240 kg/m ³

Date tested: June 14 to 16, 2023

END OF REPORT

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