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REPORT

Mr. Bimal Seebaran

Attn:

Proj	ect Code:	EC03826544/24				
Clie	nt:	ABEL BUILDING SOLUT	IONS — ANSA MCAL	. ENTERPR	ISES LTD	
Clier	nt Address:	Depot Road Longdenvill	e, Chaguanas			
Rep	ort Title:	Testing of 6" x 8" x 16"	SPAC concrete bloc	cks		
Rep	ort No:	0400/24/01				
Proj	ect Chief:	Lisa Ramoutar				
Auth	nor(s):	Kareem Jennings and V	inesh Lall			
Revi	ewed By:	Neal Hassim, Civil	Technologist	Date:	2024/02/06	
Auth	orized By:					
		Lisa Ramoutar, Labor	ratory Manager	Date:	2024/02/06	
Сору	No: 1 of 1		Appendices:			
Repo	ort Version:	ORIGINAL 🖂	RE-ISSUE		AMENDED	

Client: Abel Building Solutions – ANSA McAl Enterprises Ltd Client Ref#: PO E001PO0019269-1

Introduction

The client submitted six (6) 6 inch concrete blocks labeled " $140 \times 190 \times 390 \text{ SPAC}$ " for water absorption and compressive strength determination. The samples were submitted on November 20, 2023 and were assigned CARIRI Identification numbers T240306 to T240311.

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: December 11, 2023 to January 19, 2024.

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
T240306	140~100~200	390.0×140.0×190.0	32200	826800	25.8	Min. net area compressive strength Average of 3 units - 13.8 N/mm ² Individual unit - 12.4 N/mm ²
T240307	140x190x390 SPAC	390.0×140.0×190.0	31600	759650	24.0	
T240308		390.0×140.0×190.0	33150	904250	27.3	
				Average	25.7	

Date tested: January 19, 2024

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Table 2: Water absorption results of 6 inch concrete blocks

				THE TOTAL CONTROL OF THE TOTAL
CARIRI ID	Client ID	Oven dry density (kg/m³)	Water absorption (kg/m³)	Requirements of ASTM C90-16a
T240309	- 140x190x390 - SPAC	2164	115	Max. water absorption
T240310		2164	115	For conc. density >2000 kg/m ³
T240311		2180	107	Average of 3 units - 208 kg/m ³
	Average	2169	112	Individual unit – 240 kg/m³

Date tested: December 11 to 18, 2023

END OF REPORT

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