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Mr. Bimal Seebaran

REPORT

Attn:

Project Code:	EC03826544/24							
Client:	ABEL BUILDING SOLUTIONS - ANSA MCAL ENTERPRISES LTD							
Client Address:	Depot Road Longdenville, Chaguanas							
Report Title:	Testing of 8" x 8" x 16" SPAC concrete blocks							
Report No:	0401/24/01							
Project Chief:	Lisa Ramoutar							
Author(s):	Delroy John and Vinesh Lall							
Reviewed By:	Neal Hassim, Civil Technologist Date: 2024/02/06							
Authorized By:								
	Lisa Ramoutar, Laboratory Manager							
Copy No: 1 of 1	Appendices:							
Report Version:	ORIGINAL RE-ISSUE AMENDED							

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Introduction

The client submitted six (6) 8 inch concrete blocks labeled "190 x 190 x 390 SPAC" for water absorption and compressive strength determination. The samples were submitted on November 20, 2023 and were assigned CARIRI Identification numbers T240318 to T240323.

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: January 04 to 19, 2024.

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
T240318	190x190x390	390.0×190.0×195.0	39500	888500	22.5	Min. net area compressive strength
T240319	SPAC	390.0×190.0×192.5	38800	924250	23.8	Average of 3 units - 13.8 N/mm ²
T240320		390.0×190.0×195.0	38800	742450	19.1	Individual unit - 12.4 N/mm²
				Average	21.8	

Date tested: January 19, 2024

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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
T240321	- 190x190x390 - SPAC	2183	110	Max. water absorption
T240322		2146	122	For conc. density >2000 kg/m ³
T240323		2155	119	Average of 3 units - 208 kg/m ³
	Average	2161	117	Individual unit – 240 kg/m³

Date tested: January 04 to 16, 2024

END OF REPORT

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