

Mailing Address: Tunapuna Post Office, Trinidad and Tobago Telephone: (868) 299-0210 Telefax: (868) 662-7177 www.cariri.com Email: mail@cariri.com

## **REPORT**

Mr. Bimal Seebaran

Attn:

<b>Project Code:</b>	EC03826713/23				
Client:	ABEL BUILDING SOLUTIONS – A	NSA MCAL	. ENTERPR	ISES LTD	
Client Address:	Depot Road Longdenville, Chagu	ıanas			
Report Title:	Testing of 6" x 8" x 16" SP concr	rete blocks			
Report No:	0970/23/01				
Project Chief:	Lisa Ramoutar				
Author(s):	William Calliste and Clarence Fer	rmin			
Reviewed By:	Med Hosna Neal Hassim, Civil Technolo	ogist	Date:	2023/06/28	
Authorized By:	Lisa Ramoutar, Laboratory Ma	 anager	Date:	2023 106/28	
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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 x 190 x 390 SP" for water absorption and compressive strength determination. The samples were submitted on June 13, 2023 and were assigned CARIRI Identification numbers T231387 to T231392.

## **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

			Not	Γ		
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
T231387	- 140×190×390 SP	391×141×189	31 749	779 223	24.5	Min. net area compressive strength
T231388		391×141×189	31 280	873 326	27.9	Average of 3 units - 13.8 N/mm <sup>2</sup>
T231389		390×141×189	31 356	885 952	28.3	Individual unit - 12.4 N/mm²
	И			Average	26.9	

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
T231390	140-400-200	2203	97	Max. water absorption
T231391	140x190x390 - SP	2192	99	For conc. density >2000 kg/m <sup>3</sup>
T231392		2203	96	Average of 3 units - 208 kg/m <sup>3</sup>
	Average	2199	98	Individual unit – 240 kg/m³

Date tested: June 14 to 16, 2023

**END OF REPORT** 

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