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## **REPORT**

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Report No:	1008/23/01
Report Title:	Testing of 4 inch concrete blocks
Client Address:	Century Drive, Trincity Industrial Estate
Client:	TRINIDAD AND TOBAGO BUREAU OF STANDARDS
<b>Project Code:</b>	EC03826716/23
Attn:	-

Project Code: EC03826716/23 Report No: 1008/23/01

Client: Trinidad and Tobago Bureau Of Standards

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## Introduction

The client submitted six (6) 4 inch concrete blocks for determination of parameters identified in Table 1. The samples were submitted on June 15, 2023 and were assigned CARIRI Identification numbers T231478 to T231483.

Table 1: Sample identification and tests requested

CARIRI ID	Client ID	Test		
T231478 to T231480	B-4"-1 to B-4"-3	Dimensional checks		
T231481 to T231483	B-4"-4 to B-4"-6	Surface finish		

## **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 22, 2023.

Test results are presented in Tables 2 to 3.

Table 2: Dimensional check results of 4 inch concrete blocks

CARIRI ID	Client ID	4.72	A					
		Average Length	Average Breadth	Average Height	Average Shell Thickness	Average Web Thickness	Average Web Height	Normalized Web Area (mm²/m²)
T231478	B-4"-1	390.0	90.0	190.0	24.50	23.75	190.0	164 500
T231479	B-4"-2	390.0	90.0	190.0	24.50	24.00	190.0	166 000
T231480	B-4"-3	390.0	90.0	190.0	24.50	24.00	190.0	166 000
Average				24.50	24.00	190.0	165 500	
Minimum requirements from ASTM C90-16a (4 inch)				19.00	19.00	-	45,140	

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Table 3: Surface finish results

CARIRI ID	Client ID	Chips (>25.4mm)		Cracks (>0.5mm)		Imperfections visible from 20ft away	
		Yes	No	Yes	No	Yes	No
T231481	B-4"-4		✓		✓	✓	
T231482	B-4"-5		✓		✓		✓
T231483	B-4"-6		<b>✓</b>		✓		✓

**END OF REPORT** 

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