



Caribbean Industrial Research Institute

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REPORT

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Project Code: EC03826574/26

Client: ABEL BUILDING SOLUTIONS – ANSA MCAL ENTERPRISES LTD

Client Address: Depot Road Longdenville, Chaguanas

Report Title: Testing of clay blocks – 6 inch vertical core

Report No: 0671/26/01

Project Chief: Lisa Ramoutar

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Reviewed By:

Neal Hassim, Civil Technologist

Date: 2026/05/08

Authorized By:

Lisa Ramoutar, Laboratory Manager

Date: 2026/05/08

Copy No:

1 of 1

Appendices:

Report Version:

ORIGINAL

RE-ISSUE

AMENDED

Introduction

The client submitted ten (10) 6" vertical core Colossus hollow clay blocks for compressive strength determination and water absorption (5hr boil). The samples were submitted on January 21, 2026 and were assigned CARIRI Identification numbers as T260389 to T260398.

Testing and Methodology

Guidelines given in *ASTM C 67-24: Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile* were used in the investigation.

Results

Test period: March 17 to April 10, 2026

Test results are presented in Table 1.

Table 1: Compressive strength of blocks

CARIRI ID	Client ID	Dimensions (L×W×H)	Surface Area (mm ²)	Load (N)	Compressive strength (N/mm ²)
T260389	Q4 Colossus 6x8x16	390×132×189	51 220	1 150 538	22.5
T260390		394×131×190	51 613	1 056 093	20.5
T260391		389×132×189	51 202	1 184 841	23.1
T260392		390×131×189	50 846	1 244 434	24.5
T260393		393×133×190	52 006	1 156 234	22.2
				Average	22.6

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Table 2: Water absorption test results

CARIRI ID	Client ID	Dry weight (g)	Saturated weight (24hr cold water) (g)	Saturated weight (After boiling) (g)	Absorption after immersion (%)	Absorption after immersion and boiling (%)
T260394	Q4 Colossus 6x8x16	8301.5	8710.9	8939.5	4.9	7.7
T260395		8295.1	8807.5	9029.0	6.2	8.8
T260395		8594.4	9104.9	9303.2	5.9	8.2
T260397		8299.4	8714.6	8964.3	5.0	8.0
T260398		8127.8	8496.1	8743.5	4.5	7.6
Average					5.3	8.1

☐ Test Laboratory: CARIRI Materials Laboratory, Trincity West Industrial Estate, Macoya

END OF REPORT

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