



Caribbean Industrial Research Institute

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REPORT

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Project Code: EC03826802/25

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: 0246/26/01

Project Chief: Lisa Ramoutar

Author(s): Kareem Jennings & Adrian Cruickshank


Reviewed By:



Neal Hassim, Civil Technologist

Date: 2025/12/08

Authorized By:



Lisa Ramoutar, Laboratory Manager

Date: 2025/12/08

Copy No:

1 of 1

Appendices:

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Report Version:

ORIGINAL ☒

RE-ISSUE

☐

AMENDED

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Introduction

The client submitted ten (10) 6" vertical core Hercules hollow clay blocks for compressive strength determination and water absorption. The samples were submitted on June 24, 2025 and were assigned CARIRI Identification numbers as T251600 to T251609.

Testing and Methodology

Guidelines given in *ASTM C 67-23: Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile* were used in the investigation.

Results

Test period: November 12 to December 04, 2025

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)
T251600	Hercules 6x8x16	391.5×131.5×189.0	51 482	1 117 788	21.7
T251601		391.0×130.5×189.0	51 026	1 422 812	27.9
T251602		391.5×132.0×189.5	51 678	976 342	18.9
T251603		391.0×132.0×189.0	51 612	1 288 545	25.0
T251604		391.0×131.5×189.5	51 417	1 281 001	24.9
				Average	23.7

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Table 2: Water absorption test results

CARIRI ID	Client ID	Dry weight (g)	Saturated weight (24hr cold water) (g)	Absorption after immersion (%)
T251605	Hercules 6x8x16	8159.0	8648.6	6.0
T251606		8127.8	8582.8	5.6
T251607		8167.8	8656.8	6.0
T251608		8068.9	8577.2	6.3
T251609		8211.7	8677.2	5.7
			Average	5.9

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

END OF REPORT

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