CARIRI
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REPORT

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Project Code: EC03826699/26

Client: ABEL BUILDING SOLUTIONS – ANSA MCAL ENTERPRISES LTD

Client Address: Depot Road Longdenville, Chaguanas

Report Title: Testing of clay blocks – 4 inch horizontal core

Report No: 0012/27/01

Project Chief: Lisa Ramoutar

Author(s): Vinesh Lall

Reviewed By: Neal Hassim, Civil Technologist **Date:** 2026/10/15

Authorized By: Lisa Ramoutar, Laboratory Manager **Date:** 2026/10/15

Copy No: 1 of 1 **Appendices:** ☐

Report Version: **ORIGINAL** ☒ **RE-ISSUE** ☐ **AMENDED** ☐

Introduction

The client submitted ten (10) 4" horizontal core Classic hollow clay blocks labelled "Quarter 2" for compressive strength determination and water absorption (5hr boil). The samples were submitted on August 20, 2026 and were assigned CARIRI Identification numbers as T261195 to T261204.

Testing and Methodology

Guidelines given in *ASTM C 67-25: Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile* were used in the investigation.

Results

Test period: October 06 to 12, 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)
T261195	2nd Quarter (1)	304×89×189	27 038	144 918	5.4
T261196	2nd Quarter (3)	305×90×190	27 302	155 082	5.7
T261197	2nd Quarter (5)	305×90×189	27 183	192 679	7.1
T261198	2nd Quarter (7)	305×89×189	27 159	165 814	6.1
T261199	2nd Quarter (9)	305×90×189	27 258	149 538	5.5
				Average	**6.0**

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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 (%)
T261200	2nd Quarter (2)	4433.2	4801.0	4907.4	8.3	10.7
T261201	2nd Quarter (4)	4398.1	4771.2	4867.6	8.5	10.7
T261202	2nd Quarter (6)	4359.9	4680.9	4802.9	7.4	10.2
T261203	2nd Quarter (8)	4396.2	4732.0	4848.8	7.6	10.3
T261204	2nd Quarter (10)	4306.1	4588.8	4711.5	6.6	9.4
				Average	**7.7**	**10.3**

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

END OF REPORT

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