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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: 0011/27/01

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 1" for compressive strength determination and water absorption (5hr boil). The samples were submitted on August 20, 2026 and were assigned CARIRI Identification numbers as T261185 to T261194.

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: September 20 to October 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)
T261185	1st Quarter (2)	305×90×190	27 311	155 153	5.7
T261186	1st Quarter (4)	305×90×190	27 295	149 964	5.5
T261187	1st Quarter (6)	305×90×190	27 478	172 850	6.3
T261188	1st Quarter (8)	305×90×190	27 308	169 510	6.2
T261189	1st Quarter (10)	305×90×190	27 246	141 578	5.2
				Average	**5.8**

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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 (%)
T261190	1st Quarter (1)	4325.0	4604.3	4725.5	6.5	9.3
T261191	1st Quarter (3)	4301.8	4540.9	4668.8	5.6	8.5
T261192	1st Quarter (5)	4311.0	4653.6	4757.4	7.9	10.4
T261193	1st Quarter (7)	4377.1	4708.3	4815.5	7.7	10.0
T261194	1st Quarter (9)	4310.7	4672.4	4776.8	8.4	10.8
				Average	**7.2**	**9.8**

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

END OF REPORT

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