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REPORT

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Project Code: EC03826704/25

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: 0768/25/02 Amendment Report Supersedes CARIRI Report No. 0768/25/01*

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Reviewed By: Neal Hassim, Civil Technologist **Date:** 2025/05/06

Authorized By: Lisa Ramoutar, Laboratory Manager **Date:** 2025/05/06

Copy No: 1 of 1 **Appendices:** ☐

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

Introduction

The client submitted ten (10) 6" vertical core hollow clay blocks for compressive strength determination and water absorption. The samples were submitted on March 28, 2025 and were assigned CARIRI Identification numbers as T251022 to T251026 and T251037 to T251041.

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: April 07 to 14, 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)
T251022	6x8x16 Colossus Block	395.0×133.5×191.5	52 733	1 218 547	23.1
T251023		395.5×134.5×192.5	53 195	805 529	15.1
T251024		395.5×134.5×191.0	53 195	1 009 783	19.0
T251025		395.5×133.5×193.0	52 799	1 050 728	19.9
T251026		396.5×132.5×191.5	52 536	874 161	16.6
				Average	**18.7**

* Report amended to make a correction to the size of the block reported in the introduction and in the Client ID of the results. Changes indicated by columns in the sidebar.

Table 2: Water absorption test results

CARIRI ID	Client ID	Dry weight (g)	Saturated weight (24hr cold water) (g)	Absorption after immersion (%)
T251037	6x8x16 Colossus Block	8116.6	8713.4	7.4
T251038		8251.7	8761.2	6.2
T251039		8193.1	8729.3	6.5
T251040		8116.8	8766.4	8.0
T251041		8410.3	9095.1	8.1
			Average	**7.2**

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

END OF REPORT