



Mirpur Cantonment, Dhaka-1216

Centre for Advisory and Testing Services (CATS-MIST) Military Institute of Science and Technology

Compressive Strength of Concrete Blocks

CATS Reference	: 2376/36545-A/Con/09/2023	Date	: 26.09.2023
Client	: Maxcrete Limited		
Project Name	: Autoclave Aerated Concrete (AAC) Blocks		
Sample Brought By	: Engr. Abu Mohammad Samsuddin, Assistant General Manager		
Test Method	: ASTM C1386	Date of Receiving	: 19.09.2023
Sample	: AAC Block, Size: 600mm x 200mm x	Date of Test	: 26.09.2023
Quantity of Sample	: 06 Pcs	Sample Condition	: Unsealed

Test Results:


Sl No.	Sample ID	Sawed Length	Sawed Width	Thickness	Area	Crushing Load	Crushing Strength	
		mm	mm	mm	mm ²	kN	MPa	psi
1	Block 1	101.0	100.0	100.0	10100	79.7	7.9	1140
2	Block 2	102.0	100.0	100.0	10200	77.3	7.6	1100
3	Block 3	102.0	100.0	100.0	10200	77.6	7.6	1100

Average Crushing Strength:	7.7 MPa	1120.0 psi
Standard Deviation:	0.1 MPa	20.0 psi
Strength Class (ASTM 1386: Table 1):	AAC-6	


Remarks:

1. All information displayed above (other than the test results) was provided by the client.
2. CATS-MIST did not verify whether the samples are representative or not.

Test Supervised By:


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Note: Samples as supplied to us have been tested in our laboratory. CATS-MIST does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples to be sent in secure and sealed cover/packet/container under signature of the competent authority in order to fraudulent fabrication of test results. It is recommended to collect all test reports by duly authorized person and not by the contractor/supplier himself.