

# BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



**DEPARTMENT OF CIVIL ENGINEERING**  
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 http://brtc.ce.buet.ac.bd/#/home  
**CONCRETE LABORATORY**



BRTC No. : **1103-25616/CE/23-24; Dt. 13/6/2024** Sheet 1 of 1  
 Sent by : Mohammad Iqbal Hossain, DGM, Quality Assurance & Lab  
 Crown Cement PLC, West Mukterpur, Munshiganj  
 Ref. No. : Letter; Dt. 13/6/2024  
 Project : Testing of Crown Cement  
 Sample : **Cement** [Brand: CROWN; ID: PCC Week-24, June 2024] Type: CEM I/A-M (S-V-L) 42.5N  
 Date of Casting : 23/6/2024 **Our ID : RM-71** Manufacturing Date: June-July 2024  
 Test Method & Specification : ASTM

### Test Results of Blended Hydraulic (Portland Composite) Cement

Compressive Strength, psi & (MPa): ASTM C109/ C109M-21	Age	3 days	7 days	28 days
	Date	26-Jun-24	30-Jun-24	21-Jul-24
	In figure	<b>2490 psi</b> (17.2 MPa)	<b>4000 psi</b> (27.6 MPa)	<b>6350 psi</b> (43.8 MPa)
	In words	<b>Two thousand four hundred ninety psi</b>	<b>Four thousand psi</b>	<b>Six thousand three hundred fifty psi</b>
Maximum of Standard Requirements for All Types of IP/IS/IL/IT : ASTM C595-21		1890 psi (13 MPa)	2900 psi (20 MPa)	3620 psi (25 MPa)
Mixing water temperature		23	Curing water temperature	20.5 - 25°C

Water for Normal Consistency: ASTM C187-16		Initial Setting Time (minutes): ASTM C191-21		Final Setting Time (minutes): ASTM C191-21	
Standard Requirements: ASTM C595-21	Test Result	Standard Requirements: ASTM C595-21	Test Result	Standard Requirements: ASTM C595-21	Test Result
****	<b>24%</b>	Not less than 45 minutes	<b>185</b>	Not more than 420 minutes	<b>407</b>

Fineness (Specific Surface), m <sup>2</sup> /kg :		Soundness: ASTM 1038-19		Density/ Specific Gravity (gm/cc): ASTM C188-17		Weight of Cement Bag (kg)	
Standard Requirements: ASTM C595-21	Test Result	Standard Requirements	Test Result	Standard Requirements	Test Result	Standard Requirements	Test Result
****	****	****	****	****	****	****	****

Note: The sample was received in standard bag.

Countersigned by :

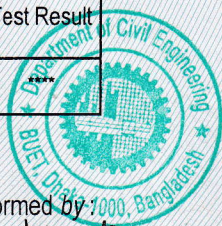
**Prof. Dr. Hasib Mohammed Ahsan**  
 Test-In-Charge, Dept. of Civil Engineering, BUET



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Test performed by   
 25/07/24  
**Dr. Rowshan Mamtaz**  
 Professor, Dept. of Civil Engineering., BUET



**Important Notes:** Samples as supplied to us have been tested in our laboratory. BRIC does not have any responsibility as to the representative character of the samples required to be tested. It is recommended that samples are sent in a secured and sealed cover/packet/container duly signed by a competent authority. In order to avoid fraudulent fabrication of test results, it is also recommended that all the test reports are collected by an authorized person, and not by the Contractor/Supplier.