

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819557964; PABX: 55167100 Ext. 7226

<http://brtc.ce.buet.ac.bd/#/home>

CONCRETE LABORATORY



BRTC No. : 1102-78099 /22-23/CE; Dt: 11/12/2022

Sent by : Manager, Engineering, CDC Concrete Ltd.

Ref. No. : CDCCL/DIB 80 mm; Dt: 11/12/2022

Project : CDC Concrete Ltd., 29/1, Goranchatbari, Mirpur, Dhaka 1216, Bangladesh.

Sample : Uni-Paver [Size: (200 x 163 X 80) mm] [Color : Red]

Test : Compressive Strength [BS 6717-1]

Date of Test : 17/12/2022 - 18/12/2022

TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Specimen Height (mm)	Specimen Area (sq. mm)	Maximum Load (kN)	Crushing Strength (N/mm ²)	Corrected Crushing Strength* (N/mm ²)	Average Compressive Strength
1	CDC	80.00	27790	897	32.30	38.00	—
2	CDC	80.00	27790	1198	43.10	51.00	
3	CDC	80.00	27790	938	33.70	40.00	

* Thickness and Chamfer Correction Factor: 1.18

Note: 1. Samples were received in unsealed condition.

2. Only three samples are tested.



Countersigned by:

Dr. A. B. M. Badruzzaman

Professor

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

Test Performed by:

19/12/22

Mohammad Irfan Hossain

Assistant Professor

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

Important Notes: Samples as supplied to us have been tested in our laboratory. BRTC 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 secure and sealed cover/ packet/ container under signature of the competent authority. In order to avoid fraudulent fabrication of test results, it is recommended that all test reports are collected by duly authorized person, and not by the Contractor/Supplier.



BRTC No. : 1103-14403 /23-24/CE; Dt: 15/2/2024
 Sent by : Shao Jie, Project Director, TBEA Co., Ltd. NO. 189, Beijing South Road, Changji, Xinjiang, China
 Ref. No. : TBEA-T-E2-HB-003; Dt: 12/2/2024
 Project : Expansion and Strengthening of Power System Network under DPDC Area, 1-E-2 Twin Tower
 Sample : **C.C. Hollow Block** [Nominal Size: 390 mmX190 mmX140 mm]
 Test : **Compressive Strength of Concrete Masonry Unit [ASTM C140-03]**
 Casting Date : 8/1/2024 [Mix Proportion (as quoted): Not mentioned]
 Date of Test : 3/3/2024

TEST REPORT

Sl. No.	Specimen Designation/ Frogmark	Sample Gross Area	Sample Net Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure	Specimen Top View
		(sq. in)	(sq. in)	(lb)	(psi)			
1	E2-08012024-1/1	84.63	45.57	155,512	3,413	3350 psi	Combined *	
2	E2-08012024-1/2	84.20	45.60	153,715	3,371	(23 MPa)	Combined *	
3	E2-08012024-1/3	84.20	45.60	148,323	3,253	(236 kg/cm ²)	Combined *	

* Combined = Mortar and Aggregate failure.

- Notes: 1. Samples were received in sealed condition.
 2. Crushing strength is calculated based on net cross sectional area.

Countersigned by:

Prof. Dr. Hasib Mohammed Ahsan
 Test-In-Charge
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

Test Performed by:

Mahbubah Ahmed
 Lecturer
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh



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BRTC No. : **1103-46203 /24-25/CE; Dt: 5/3/2025**
 Sent by : Shao Jie, Project Director, TBEA Co., Ltd.
 Ref. No. : TBEA-T-A6-HB-003; Dt: 19/2/2025
 Project : Expansion and Strengthening of Power System Network under DPDC Area
 Sample : **C.C. Hollow Block** [Nominal Size: 390 mmX190 mmX 190 mm]
 Test : **Compressive Strength of Concrete Masonry Unit [ASTM C140-03]**
 Date of Test : 6/3/2025

TEST REPORT

Sl. No.	Specimen Designation/ Frogmark	Sample Gross Area	Sample Net Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure	Specimen Top View
		(sq. in)	(sq. in)	(lb)	(psi)			
1	A6-15012025-1/1	114.85	58.67	151,183	2,577	2530 psi	Combined *	
2	A6-15012025-1/2	114.85	58.66	146,866	2,503	(17.5 MPa)	Combined *	
3	A6-15012025-1/3	114.85	58.66	146,866	2,504	(178 kg/cm ²)	Combined *	

* Combined = Mortar and Aggregate failure.

- Notes: 1. Samples were received in sealed condition.
 2. Crushing strength is calculated based on net cross sectional area.



Countersigned by:

Prof. Dr. Moazzem Hossain
 Test-In-Charge
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

Test Performed by:

8/3/25

Sadab Ishraq Khan
 Lecturer
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

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BRTC No. : 1103-14403 /23-24/CE; Dt: 15/2/2024

Sent by : Shao Jie, Project Director, TBEA Co., Ltd. NO. 189, Beijing South Road, Changji, Xinjiang, China

Ref. No. : TBEA-T-E2-HB-004; Dt: 12/2/2024

Project : Expansion and Strengthening of Power System Network under DPDC Area, 1-E-2 Twin Tower

Sample : **C.C. Hollow Block** [Nominal Size: 390 mmX190 mmX190 mm]

Test : **Compressive Strength of Concrete Masonry Unit [ASTM C140-03]**

Casting Date : 8/1/2024 [Mix Proportion (as quoted): Not mentioned]

Date of Test : 3/3/2024

TEST REPORT

Sl. No.	Specimen Designation/ Frogmark	Sample Gross Area	Sample Net Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure	Specimen Top View
		(sq. in)	(sq. in)	(lb)	(psi)			
1	E2-08012024-1/1	114.85	56.42	143,830	2,549	2780 psi	Combined *	
2	E2-08012024-1/2	114.85	55.21	160,455	2,906	(19 MPa)	Combined *	
3	E2-08012024-1/3	114.85	55.21	160,005	2,898	(195 kg/cm ²)	Combined *	

* Combined = Mortar and Aggregate failure.

Notes: 1. Samples were received in sealed condition.

2. Crushing strength is calculated based on net cross sectional area.



Countersigned by :

Prof. Dr. Hasib Mohammed Ahsan

Test-In-Charge

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

Test Performed by :

Mahbubah Ahmed

Lecturer

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

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BRTC No. : 1103-43974 /24-25/CE; Dt: 10/2/2025
 Sent by : Engr. Sakib Ahmed, Manager, Engineering, CDC Concrete Ltd.
 Ref. No. : CDCCL/Rectangular Paver; Dt: 6/2/2025
 Project : CDC Concrete Ltd.
 Sample : **Solid Block** [Size: 200 mm x100 mm x80 mm]
 Test : **Compressive Strength of Concrete Masonry Unit [ASTM C140-03]**
 Date of Test : 16/2/2025

TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Length of Test Sample	Width of Test Sample	Surface Area of Sample	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure
		(inch)	(inch)	(Sq. Inch)	(lb)	(psi)		
1	—	7.87	3.94	31.00	251,128	8,101	---	Combined *
2	—	7.87	3.94	31.00	300,327	9,688		Combined *
3	—	7.87	3.94	31.00	263,592	8,503		Combined *

* Combined = Mortar and Aggregate failure.

Notes: 1. Samples were received in sealed condition.
 2. Only three samples are sent for test.

Countersigned by:

Prof. Dr. Moazzem Hossain
 Test-In-Charge
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

Test Performed by:

17/2/25
Sadab Ishraq Khan
 Lecturer
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

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DEPARTMENT OF CIVIL ENGINEERING

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CONCRETE LABORATORY



BRTC No. : 1103-05798 /23-24/CE; Dt: 14/11/2023
Sent by : Manager, Engineering, CDC Concrete Ltd.
Ref. No. : CDCCL/Concrete Solid Brick; Dt: 14/11/2023
Project : CDC Concrete Ltd, Goranchatbari, Mirpur, Dhaka.
Sample : Solid Block [Size: 240x107x70 mm]
Test : Compressive Strength of Concrete Masonry Unit [ASTM C140-03]
Date of Test : 15/11/2023

TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Length of Test Sample (inch)	Width of Test Sample (inch)	Surface Area of Sample (Sq. Inch)	Maximum Load (lb)	Crushing Strength (psi)	Average Crushing Strength	Mode of Failure
1	-	9.45	4.13	39.06	231,385	5,924	5890 psi (40.5 MPa) (414 kg/cm ²)	Combined *
2	-	9.45	4.13	39.06	244,221	6,252		Combined *
3	-	9.45	4.13	39.06	214,344	5,488		Combined *

* Combined = Mortar and Aggregate failure.

Note: 1. Samples were received in unsealed condition.



Countersigned by:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed by:

15.11.23

Mohammad Irfan Hossain
Assistant Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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CONCRETE LABORATORY



BRTC No. : 1103-41200 /24-25/CE; Dt: 12/1/2025

Sent by : Mohammad Hossen Mia, Superintendent Engineer, Civil Engineering, Projects, GILDAN.

Ref. No. : SDS/Road/SINAMM-20250109-1; Dt: 9/1/2025

Project : SDS International Limited (Road)

Sample : Uni-Paver [Size: (225x110x83)mm] [Color : Grey]

Test : Compressive Strength [BS 6717-1]

Date of Test : 14/1/2025 - 15/1/2025

TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Specimen Height	Specimen Area	Maximum Load	Crushing Strength	Corrected Crushing Strength*	Average Compressive Strength
		(mm)	(sq. mm)	(kN)	(N/mm ²)	(N/mm ²)	
1	CDC	83	24800	1062	42.80	51.00	48 N/mm ²
2	CDC	82	24800	994	40.10	47.00	
3	CDC	83	24800	963	38.80	46.00	

*Thickness and Chamfer Correction Factor: 1.18

Notes: 1. Samples were received in sealed condition.

2. Only three samples are sent for test.



Countersigned by:

Test Performed by:

Prof. Dr. Hasib Mohammed Ahsan

Test-In-Charge

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

Tazwar Bakhtiyar Zahid

Assistant Professor

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

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CONCRETE LABORATORY



BRTC No. : 1103-41200 /24-25/CE; Dt: 12/1/2025

Sent by : Mohammad Hossen Mia, Superintendent Engineer, Civil Engineering, Projects, GILDAN.

Ref. No. : SDS/Road/SINAMM-20250109-2; Dt: 9/1/2025

Project : SDS International Limited (Road)

Sample : Uni-Paver [Size: (225x110x85)mm] [Color : Red]

Test : Compressive Strength [BS 6717-1]

Date of Test : 14/1/2025 - 15/1/2025

TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Specimen Height	Specimen Area	Maximum Load	Crushing Strength	Corrected Crushing Strength*	Average Compressive Strength
		(mm)	(sq. mm)	(kN)	(N/mm ²)	(N/mm ²)	
1	CDC	85	24800	1036	41.80	49.00	48 N/mm²
2	CDC	85	24800	961	38.80	46.00	
3	CDC	85	24800	1040	41.90	49.00	

* Thickness and Chamfer Correction Factor: 1.18

- Notes: 1. Samples were received in sealed condition.
2. Only three samples are sent for test.

Countersigned by:

Test Performed by:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh



Tazwar Bakhtiyar Zahid
Assistant Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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CONCRETE LABORATORY



BRTC No. : **1103-04554 /23-24/CE; Dt: 1/11/2023**

Sent by : Manager, Engineering, CDC Concrete Ltd.

Ref. No. : CDCCL/Unipaver 80 mm Grey; Dt: 1/11/2023

Project : CDC Concrete Ltd.

Sample : **Uni-Paver** [Size: (222 x 110 X 80)mm] [Color : Grey]

Test : **Compressive Strength [BS 6717-1]**

Date of Test : 4/11/2023 - 8/11/2023

TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Specimen Height	Specimen Area	Maximum Load	Crushing Strength	Corrected Crushing Strength*	Average Compressive Strength
		(mm)	(sq. mm)	(kN)	(N/mm ²)	(N/mm ²)	
1	CDC	80.00	24800	1048	42.30	50.00	52 N/mm²
2	CDC	80.00	24800	1114	44.90	53.00	
3	CDC	80.00	24800	1101	44.40	52.00	

* Thickness and Chamfer Correction Factor: 1.18

Note: 1. Samples were received in unsealed condition.

Countersigned by:

Prof. Dr. Hasib Mohammed Ahsan
Test-In-Charge
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh



Test Performed by:

11.11.23

Mohammad Irfan Hossain
Assistant Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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CONCRETE LABORATORY



BRTC No. : **1102-74686 /22-23/CE; Dt: 1/11/2022**
Sent by : Manager, Engineering, CDC Concrete Ltd.
Ref. No. : CDCCL/Uniblock 100 Grey; Dt: 1/11/2022
Project : CDC Concrete Ltd, 29/1, Goranchatbari, Mirpur, Dhaka 1216, Bangladesh.
Sample : **Uni-Paver** [Size: (222 x 110 X 95)mm] [Color : Grey]
Test : **Compressive Strength [BS 6717-1]**
Date of Test : 13/11/2022 - 14/11/2022

TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Specimen Height (mm)	Specimen Area (sq. mm)	Maximum Load (kN)	Crushing Strength (N/mm ²)	Corrected Crushing Strength* (N/mm ²)	Average Compressive Strength
1	CDC	95.00	24800	815	32.90	41.00	40 N/mm²
2	CDC	95.00	24800	802	32.40	40.00	
3	CDC	95.00	24800	801	32.30	40.00	

* Thickness and Chamfer Correction Factor: 1.24

Note: 1. Samples were received in unsealed condition.
2. Only three samples are tested.

Countersigned by:

Dr. A. B. M. Badruzzaman
Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

Test Performed by:

19/11/22

Mohammad Irfan Hossain
Assistant Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh

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BRTC No. : 1103-12816 /23-24/CE; Dt: 30/1/2024
 Sent by : Engr. Sakib Ahmed, Manager, QC, CDC Concrete Ltd., 29/1, Goranchatbari, Mirpur, Dhaka-1216
 Ref. No. : CDCCL/HB 90; Dt: 30/1/2024
 Project : CDC Concrete Ltd.
 Sample : **C.C. Hollow Block** [Nominal Size: 390 mmX 190 mmX90 mm]
 Test : **Compressive Strength of Concrete Masonry Unit [ASTM C140-03]**
 Date of Test : 5/2/2024

TEST REPORT

Sl. No.	Specimen Designation/ Frogmark	Sample Gross Area	Sample Net Area	Maximum Load	Crushing Strength	Average Crushing Strength	Mode of Failure	Specimen Top View
		(sq. in)	(sq. in)	(lb)	(psi)			
1	-	54.40	37.80	148,772	3,935	---	Combined *	
2	-	54.40	35.85	112,377	3,135		Combined *	
3	-	54.40	35.85	120,015	3,348		Combined *	

* Combined = Mortar and Aggregate failure.

Note: 1. Samples were received in unsealed condition.
 2. Crushing strength is calculated based on net cross sectional area.

Countersigned by:

Prof. Dr. Hasib Mohammed Ahsan
 Test-In-Charge
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

Test Performed by:



Mahbubah
 7/2/2024

Mahbubah Ahmed
 Lecturer
 Department of Civil Engineering
 BUET, Dhaka-1000, Bangladesh

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