

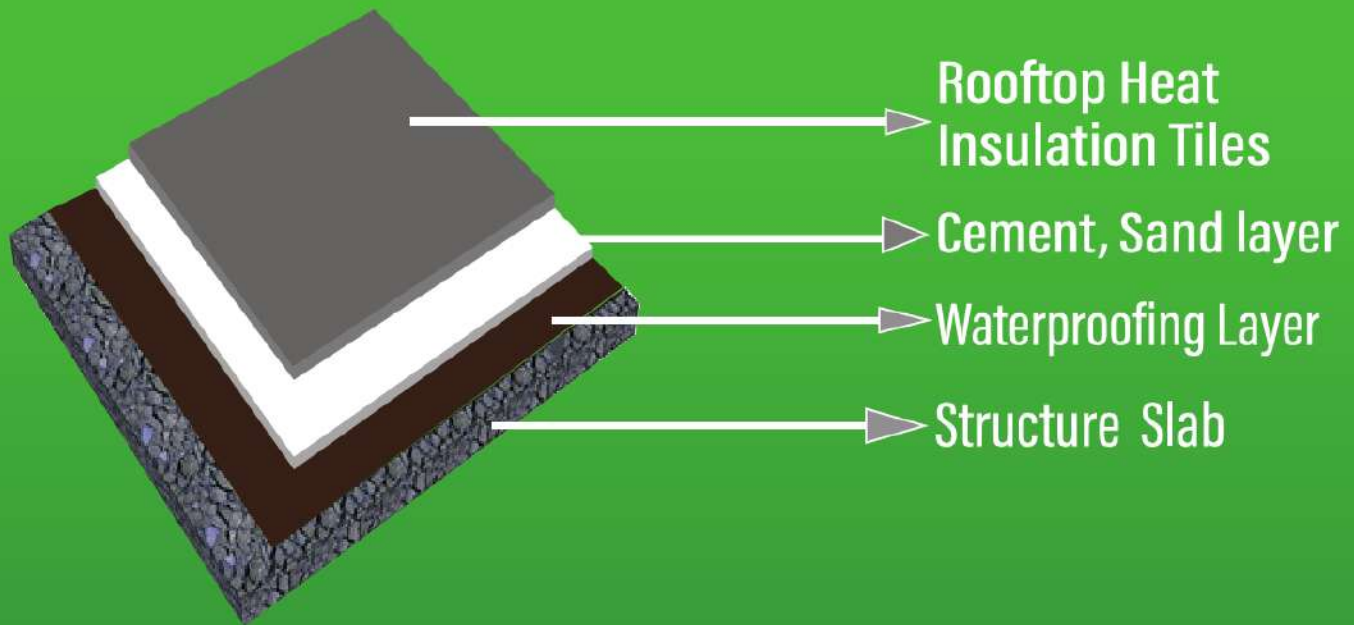


# ROOFTOP HEAT INSULATION TILES

*"keep your top floor cool  
& comfortable at low cost"*



# INSTALLATION PROCESS



## Tiles Ingredients :



# Benefit Of Rooftop Heat Insulation Tiles



- ✓ Low cost
- ✓ Energy Savings
- ✓ Light Weight
- ✓ Cool Environment
- ✓ Easy to Installation
- ✓ Beautification of Rooftop
- ✓ 85 to 90 % Heat Reduction

## Application

- Residential Buildings Rooftop
- Office & Commercial Buildings Rooftop
- School, College, Mosque etc Buildings Rooftop
- Factory Buildings Rooftop etc

✓ BCSIR TESTED



**85 to 90%**  
Heat Reduction



Eco Home's Builders



To Visit The website  
Please Scan the QR code

## CONTACT INFO :



+8801776-327161



+88 01844-097601

+88 01712-520572



eco@ecopanelbd.com



www.ecopanelbd.com



House 16, Road 11, Sector 10, Uttara  
Tongi, Haydrabad, Gazipur, ( Factory )



BUET TESTED



### BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



#### DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819557964; PABX: 25167100 Ext. 7226  
http://brtc.ce.buet.ac.bd/home

#### CONCRETE LABORATORY



BRTC No. : 1103-30911/24-25/CE; Dt: 10/9/2024  
Sent by : Engr. Md. Rayhan Sorter, CEO, Eco Homes Builders  
Ref. No. : Letter; Dt: 10/9/2024  
Subject : Application for testing of Compressive Strength & water absorption  
Sample : Solid Block (Heat Insulation Tiles) [Color : Grey]  
Test : Absorption Test of Concrete Masonry Units [ASTM C140-43]  
Date of Test : 19/9/2024 - 28/9/2024

#### TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	S.S.D. Weight of Specimen (gm)	Dry Weight of Specimen (gm)	Weight of Soaked Water (gm)	Absorption Capacity (%)	Average Absorption (%)
1	-	4338.4	3535.2	703.2	19.3	19.2
2	-	4259.8	3584.0	674.8	18.3	
3	-	4380.2	3669.2	711.0	19.4	

Note: 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:

Nishate Binte Shahid  
01-10-24  
Lecturer  
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/boxed 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.

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BUETCE 0497703

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#### CONCRETE LABORATORY



BRTC No. : 1103-30911/24-25/CE; Dt: 10/9/2024  
Sent by : Engr. Md. Rayhan Sorter, CEO, Eco Homes Builders  
Ref. No. : Letter; Dt: 10/9/2024  
Subject : Application for testing of Compressive Strength & water absorption  
Sample : Solid Block (Heat Insulation Tiles) [Color : Grey]  
Test : Compressive Strength [BS 6717-1]  
Date of Test : 19/9/2024 - 28/9/2024

#### TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	Specimen Height (mm)	Specimen Area (sq. mm)	Maximum Load (kN)	Crushing Strength (N/mm <sup>2</sup> )	Corrected Crushing Strength* (N/mm <sup>2</sup> )	Average Compressive Strength
1	-	80	45575	157	3.40	3.00	3.11/mm <sup>2</sup>
2	-	80	45575	141	3.10	3.00	
3	-	80	45575	157	3.40	3.00	

\* Thickness and Chamfer Correction Factor: 1

Note: Samples were received in unsealed condition.

Sample contained porous foam type element

Countersigned by:

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



Test Performed by:

Nishate Binte Shahid  
01-Oct-24  
Lecturer  
Department of Civil Engineering  
BUET, Dhaka-1000, Bangladesh

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BUETCE 0497702

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

## CONCRETE LABORATORY



BRTC No. : 1103-30911 /24-25/CE; Dt: 10/9/2024  
Sent by : Engr. Md. Rayhan Sorker, CEO, Eco Homes Builders  
Ref. No. : Letter; Dt: 10/9/2024  
Subject : Application for testing of Compressive Strength & water absorption  
Sample : Solid Block (Heat Insulation Tiles) [ Color : Grey]  
Test : Absorption Test of Concrete Masonry Units [ASTM C140-03]  
Date of Test : 19/9/2024 - 28/9/2024

### TEST REPORT

Sl. No.	Specimen Designation/ Frog Mark	S.S.D. Weight of Specimen	Oven dry Weight of Specimen	Weight of Soaked Water	Absorption Capacity	Average Absorption
		(gm)	(gm)	(gm)	(%)	(%)
1	-	4336.4	3636.2	700.2	19.3	19.2
2	-	4258.8	3584.0	674.8	18.8	
3	-	4380.2	3669.2	711.0	19.4	

Note: Samples were received in unsealed condition.

Countersigned by:

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



LbJ7MJH26



Nishatee  
01.10.24  
Nishatee Binte Shahid  
Lecturer  
Department of Civil Engineering  
BUET, Dhaka-1000, Bangladesh

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Sent by : Engr. Md. Rayhan Sorker, CEO, Eco Homes Builders

Ref. No. : Letter; Dt: 10/9/2024

Subject : Application for testing of Compressive Strength & water absorption

Sample : Solid Block (Heat Insulation Tiles) [ Color : Grey ]

Test : Compressive Strength [BS 6717-1]

Date of Test : 19/9/2024 - 28/9/2024

### 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 <sup>2</sup> )	(N/mm <sup>2</sup> )	
1	-	80	45575	157	3.40	3.00	3 N/mm <sup>2</sup>
2	-	80	45575	141	3.10	3.00	
3	-	80	45575	157	3.40	3.00	

\* Thickness and Chamfer Correction Factor: 1

Note: Samples were received in unsealed condition.

Sample contained porous foam type element

Countersigned by:

Prof. Dr. Hasib Mohammed Ahsan

Test-In-Charge

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh



8HMT4QYbB

Test Performed by:

01-Oct-24

Nishatee Binte Shahid

Lecturer

Department of Civil Engineering

BUET, Dhaka-1000, Bangladesh

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বাংলাদেশ বিজ্ঞান ও শিল্প গবেষণা পরিষদ (বিসিএসআইআর)  
BANGLADESH COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (BCSIR)

Institute Name: Institute of Glass & Ceramic Research and Testing (IGCRT)

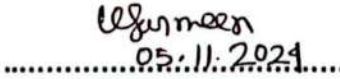
Analysis Report

Analytical Service Cell Ref No: G-204, Date: 08/10/2024	Unit (Lab/Inst.) Ref No: IGCRT/Admin/Analysis/389/1-2/2001/390
Lab ID: RSCRD - 08 - October - 2024	Submission Date: 08/10/2024
Sample ID: Concrete Tiles - October - 2024	Sample Receiving Date: 08/10/2024
Number of Sample: 1	Report Delivery Date: 05/11/2024
Sample Description: <b>Subject : Testing of Thermal Conductivity of Concrete Tiles</b> <b>Supplied Sample Description: Concrete Tiles</b> Office Address: ECO Home Builders, House-16(3 <sup>rd</sup> Floor), Road-11, Sector-10, Uttara, Dhaka-1230, Email: ecohomesbuilders@gmail.com	
Client's Details: Md. Rayhan Sarker, Phone: 01776327161	

Report Details:

Sl. No.	Parameter	Result
01.	Thermal Conductivity when, Heating Rate, $Q = 0.008$ °C/sec Upper Surface Temp. ( $\theta_1$ ) = 99°C Lower Surface Temp. ( $\theta_2$ ) = 31°C	0.373 Wk/m

  
05/11/24  
Analyst  
Md. Sagirul Islam  
Senior Scientific Officer  
IGCRT, BCSIR  
Dhaka

  
05/11/2024  
Section/Division In-Charge  
Dr. Umme Sarmeen Akhtia  
Senior Scientific Officer  
(Division-In-Charge)  
Refractory & Structure  
Ceramic Research Division  
IGCRT, BCSIR, Dhaka-1205

  
06/11/2024  
In-Charge/Director  
Dr. Samina Ahmed  
Director (Additional Charge)  
Institute of Glass & Ceramic Research and Testing  
BCSIR, DR. Qudrat-I-Khuda Road  
Dhaka-1205

Note:

- The results reported here pertained to the sample received in this laboratory only.
- Complain and/or query regarding delivered test report should be lodged within one month of report delivery date.
- The laboratory is not responsible for the data quality affected due to sampling, transporting and storage conditions of the sample(s) maintained before received in the laboratory.
- The report shall not be reproduced/published partly or fully without prior approval of the authority.

Analytical Service Cell

Dr. Qudrat-I-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh  
Telephone: 9671108, Fax: 88-02-9671108 E-mail: asc@bcsir.gov.bd Website: [www.bcsir.gov.bd](http://www.bcsir.gov.bd)