



DATA SHEET

FIRST WATER STOPPER COMPANY IN BANGLADESH
TLMH Water Stopper
2026



BUET Test Reports available



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First Water Stopper Co. In Bangladesh

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY (BUET)



DEPARTMENT OF CIVIL ENGINEERING

Mobile: 01819 557 964, PABX: 966 5650-80 Ext. 7226; www.buet.ac.bd/ce/



STRENGTH OF MATERIALS LABORATORY

BRTC No. : 1103-00640 /23-24/CE; Date: 16/9/2023
Sent by : Mr. AN, SungJu, Executive Manager, Taeyoung Engineering & Construction Co. Ltd.
Ref. No. : SEW1-TY-QAQC-BRTC-0094; Date: 7/9/2023
Project : Design, Construction, Supply, Installation, Testing and Commissioning of 100 MLD Sewage Treatment Plant; 300 cum/day Fecal Sludge Treatment Facility and Sewerage Network for North-Middle-Haishahar and adjoining Areas of Chattogram Metropolitan on Turnkey Basis. (PESSCM-1/W-1)
Sample : P.V.C. Water Stops (W2 Type)
Test : TENSILE STRENGTH TEST OF P.V.C. [ASTM D638]
Date of Test : 3/10/2023

TENSION TEST RESULTS

Serial Number	Water Stopper Width	Test Coupon Thickness	Test Coupon Width	Ultimate load	Ultimate Strength	Average Ultimate Strength	Elongation (gauge length=50 mm)	Average Elongation
	mm	mm	mm	kg	kg/cm ²		%	%
1	258	5.70	11.70	91.44	137	132 kg/cm ² (13.5 MPa) (1950 psi)	392	393
2		5.45	12.00	86.45	132		386	
3		5.55	11.70	82.46	127		400	

Notes: Samples were received in sealed condition

Countersigned by:

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

Test Performed by:


5/10/2023

Md. Ruhul Amin
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.



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STRENGTH OF MATERIALS LABORATORY

BRTC No. : 1103-00626 /23-24/CE; Date: 16/9/2023
Sent by : Mr. AN, SungJu, Executive Manager, Taeyoung Engineering & Construction Co. Ltd.
Ref. No. : SEW1-TY-QAQC-BRTC-0094; Date: 7/9/2023
Project : Design, Construction, Supply, Installation, Testing and Commissioning of 100 MLD Sewage Treatment Plant; 300 cum/day Fecal Sludge Treatment Facility and Sewerage Network for North-Middle-Halishahar and adjoining Areas of Chattogram Metropolitan on Turnkey Basis. (PESSCM-1/W-1)
Sample : P.V.C. Water Stops (W6 Type)
Test : TENSILE STRENGTH TEST OF P.V.C. [ASTM D638]
Date of Test : 3/10/2023

TENSION TEST RESULTS

Serial Number	Water Stopper Width	Test Coupon Thickness	Test Coupon Width	Ultimate load	Ultimate Strength	Average Ultimate Strength	Elongation at Failure (gauge length=50 mm)	Average Elongation at Failure
	mm	mm	mm	kg	kg/cm ²		%	%
1	199.80	6.05	11.80	101.40	142	138 kg/cm ²	334	330
2		6.15	11.95	94.43	128	(14.1 MPa)	300	
3		6.10	11.75	102.40	143	(2040 psi)	356	

Notes: Samples were received in sealed condition.

Countersigned by:

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

Test Performed by:

Md. Ruhul Amin
Assistant Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh



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যন্ত্রকৌশল বিভাগ

বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়
ঢাকা-১০০০, বাংলাদেশ



Department of Mechanical Engineering

Bangladesh University of Engineering and Technology
Dhaka-1000, Bangladesh

TEST REPORT OF WATER STOPPER

031726

15 September 2025

CLIENT

Mr. Jubeair Hossen Emon
Managing Director
TLMH Suppliers In Bangladesh Limited
57, Uttar Mushundhi, Wari
Dhaka-1203.

CLIENT'S REFERENCE

Nil;

Dated: 08.09.2025

UNIVERSITY REFERENCE

BRTC NO. 1103-60780/ME/2025-26;
[ME Job No. 2509025]

Dated: 08.09.2025

SAMPLES SUPPLIED

PVC Water Stopper

MODEL

GS-356,7

MANUFACTURE

TLMH Stopper Manufacture Co.

ADDRESS

SRM, Khudirampur bypass, Karatia, Tangail-1903

SAMPLE RECIEVED

Unsealed & Signed

TEST CONDUCTED BY

DEPARTMENT OF MECHANICAL ENGINEERING BUET, DHAKA-1000

Disclaimer

Test results in this report exclusively refer to the sample(s)
supplied by the Client. Department of Mechanical Engineering,
BUET bears no responsibility regarding the supplied sample(s).

TEST RESULTS

TEST OF TENSILE STRENGTH

Standard Used: ASTM D 638

Sample ID	Measured Tensile Strength (MPa)	Average Tensile Strength (MPa)
PVC Water Stopper	13.3, 14.7, 15.1, 16.3	14.9

TEST OF ELONGATION

Standard Used: ASTM D 638

Sample ID	Measured Elongation (%)	Average Elongation (%)
PVC Water Stopper	288, 293, 328, 336	311

Countersigned by:

P. A. B. M. Toufique Hasan
15/09/2025

Dr. A. B. M. Toufique Hasan
Professor and Testing Coordinator
Dept. of ME, BUET

Test Performed by:

Imrul
15/09/2025

Md. Imrul Kayes
Assistant Professor
Dept. of ME, BUET

Head
Professor and Head
Mechanical Engg. Dept.
BUET, Dhaka-1000
Bangladesh

PABX : +880-2-55666000-02/7699, 7232, Mobile : 01325-417904, Email : headme@me.buet.ac.bd, mebrtcoffice@me.buet.ac.bd



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STRENGTH OF MATERIALS LABORATORY

BRTC No. : 1103-68806 /25-26/CE; Date: 14/12/2025
Sent by : Mr. Arindam Ganguly, Project Manager, ITD Cementation India Limited.
Ref. No. : ITDCem/Bogura-Kalikair 400kV/Others/1062; Date: 13/12/2025
Project : Design, Supply, Installation, Testing & Commissioning of Jamuna River Crossing Portion of Bogura-Kalikair 400 kV Double Circuit Transmission Line on Trunk Basis (Package-01, Lot-03). ICB No.: PGCB/EXIM BANK/LOC-2/400 kV/TUJRC (Re-Tender), Date: 12/09/2023]. Contractor: ITD Cementation India Limited. Manufacturer: Tangail Lawn Mower House.

Sample : P.V.C. Water Stopper

Test : TENSILE STRENGTH TEST OF P.V.C. [ASTM D638]

Date of Test : 21/12/2025

TENSION TEST RESULTS

Serial Number	Water Stopper Width	Test Coupon Thickness	Test Coupon Width	Ultimate load	Ultimate Strength	Average Ultimate Strength	Elongation at Failure (gauge length=50 mm)	Average Elongation at Failure
	mm	mm	mm	kg	kg/cm ²		%	%
1	200	5.00	12.10	100.98	167	169 kg/cm ² (16.6 MPa) (2400 psi)	288	286
2		4.90	11.60	98.97	174		278	
3		5.00	12.20	100.98	166		292	

Notes: Samples were received in sealed condition.

Countersigned by:

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



ZQGTSH235

Test Performed by:

Md. Ruhul Amin
Assistant Professor
Department of Civil Engineering
BUET, Dhaka-1000, Bangladesh



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বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়
ঢাকা-১০০০, বাংলাদেশ



Department of Mechanical Engineering
Bangladesh University of Engineering and Technology
Dhaka-1000, Bangladesh

TEST REPORT OF WATER STOPPER

032762

03 February 2026

CLIENT : জনাব মোঃ গোলাম যাকারিয়া
নির্বাহী প্রকৌশলী
ঠাকুরগাঁও পানি উন্নয়ন বিভাগ
বাগাউবো, ঠাকুরগাঁও

CLIENT'S REFERENCE : 42 01 9400 181 35 005 25-100, Dated: 21.01.2026

UNIVERSITY REFERENCE : BRTC NO. 1103-72475/ME/2025-26, Dated: 27.01.2026
[ME Job No. 2601070]

SAMPLES SUPPLIED : Water Stopper

SAMPLE RECIEVED : Sealed & Signed

TEST CONDUCTED BY : DEPARTMENT OF MECHANICAL ENGINEERING BUET, DHAKA-1000

DISCLAIMER : Test results in this report exclusively refer to the sample(s) supplied by the Client. Department of Mechanical Engineering, BUET bears no responsibility regarding the supplied sample(s)

TEST RESULTS

TEST OF WIDTH

Standard Used: ASTM D 2240 & Supplier Specification

Sample ID	Average Measured Width (mm)	Specified Value (cm)	Remarks
Water Stopper	23	23	Conforms to the requirement of the supplier's specifications

TEST OF SPECIFIC GRAVITY

Standard Used: ASTM D 792 & Supplier Specification

Sample ID	Measured Specific Gravity	Average Specific Gravity	Maximum Value	Remarks
Water Stopper	1.28, 1.29, 1.29	1.29	1.30	Conforms to the requirement of the supplier's specifications

TEST OF HARDNESS

Standard Used: ASTM D 2240 & Supplier Specification

Sample ID	Hardness at Different Points (Shore-A Durometer)	Hardness (Median Value) (Shore-A Durometer)	Minimum Value	Remarks
Water Stopper	84, 85, 86, 87, 88	86	80	Conforms to the requirement of the supplier's specifications

TEST OF TENSILE STRENGTH

Standard Used: ASTM D 638 & Supplier Specification

Sample ID	Measured Tensile Strength (N/mm ²)	Average Tensile Strength (N/mm ²)	Minimum Value (N/mm ²)	Remarks
Water Stopper	17.4, 18.3, 18.9	18.2	13.8	Conforms to the requirement of the supplier's specifications

TEST OF ULTIMATE ELONGATION

Standard Used: ASTM D 638 & Supplier Specification

Sample ID	Measured Ultimate Elongation (%)	Average Ultimate Elongation (%)	Minimum Value (%)	Remarks
Water Stopper	287, 301, 316	301	225	Conforms to the requirement of the supplier's specifications

Countersigned by:

Dr. A. B. M. Toufique Hasan
Professor and Testing Coordinator
Dept. of ME, BUET

Test Performed by:

Dr. Kazi Arifat Rahman
Associate Professor
Dept. of ME, BUET

Professor and Head
Mechanical Engg. Dept.
BUET, Dhaka-1000
Bangladesh

Fax: +880-2-5560900-027665, 7232, Mobile: 01325-417009, Email: headme@me.buet.ac.bd, mebrtcoffice@me.buet.ac.bd



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DESCRIPTION

By combining 15 years of manufacturing know how to international standards, TLMH brings this technical knowhow to the extrusion of PVC Waterstopper TLMH PVC Waterstopper are made using specially compounded PVC resin suitable for construction and expansion joint areas as well as for water retaining structures. The profiles that are available for internal and external for both construction and expansion joint are capable of providing a watertight seal. These profiles are available in rolls with separate intersections supplied to simplify and minimize on site fabrication. The various profile available are the general international standard. The 3 series profile is TLMH most commonly used profile for joint areas. The dumbbell series is the latest to be designed where a dumbbell profile is preferred. The special joint pieces for certain area, where the casting is done in a way where a special designed shape of the waterstop is required, can be supplied by TLMH. TLMH brings the quality in the manufacturing process to the workmanship of jointing the special pieces to ensure the special pieces are according to quality standards.

AREA OF USE

- Foundation Work
- Basement
- Retaining Wall
- Tunnels
- Reservoirs
- Swimming Pool

ADVANTAGES

- Various profiles and sizes available for different types of areas
- Special pieces for intersection readily available made at the factory
- Eyelets at different distance available upon request to ease installation process
- TLMH PVC water stopper conform to the required standards

TYPICAL PHYSICAL PROPERTIES OF PVC WATER STOPPER	
Properties	Minimum Value
Tensile Strength	12.4 MPa
Ultimate Elongation	225%
Initial Hardness	> 72
Water Absorption	< 1%



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SELECTING THE CORRECT WIDTH

The thickness of the concrete as well as the position of the reinforcement will determine the width of the water stopper. The width of the water stopper is typically smaller or equal to the thickness of the concrete.

SITE JOINING

The jointing of the PVC water stopper is typically done by a welding sword or welding blade together with an adjustable jig. The ends of the water stopper that will be joint are aligned to each other place into the jig. The welding sword/blade is then used to heat up the ends of the PVC water stopper till the ends become a semi-molten state. The welding sword/blade is then removed, and the 2 ends are brought together till it fuses with each other.



Internal PVC Waterstop



Separate Casting of PVC Waterstop



Flat X Joint



Vertical T- Joint



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EXTERNAL JOINTS (3 series Standard International Profile)

GS 323 - 150mm - Expansion	GS 327 - 150mm - Construction
GS 324 - 200mm - Expansion	GS 328 - 200mm - Construction
GS 325 - 250mm - Expansion	GS 329 - 250mm - Construction

INTERNAL JOINTS (3 series - Standard International Profile)

GS 351 - 150mm - Expansion	GS 355 - 150mm - Construction
GS 352 - 200mm - Expansion	GS 356 - 200mm - Construction
GS 353 - 250mm - Expansion	GS 357 - 250mm - Construction

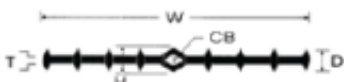


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Model Cross Section

Model		Dimension (mm.)				
		W	D	T	H	CB
Dumbell						
	6"	152	13	5	-	-
	8"	203	13	5	-	-
	9"	230	17	5	-	-
	10"	255	19	5	-	-
	12"	305	19	5	-	-
Dumbell CB						
	6"	152	13	5	18	8
	8"	203	13	5	18	8
	9"	230	17	5	21	11
	10"	255	19	5	23	13
	12"	305	19	5	19	9
R-Foil						
	8"	203	13	5	-	-
	9"	230	13	5	-	-
	10"	250	13	5	-	-
	12"	305	13	5	-	-
R-Foil CB						
	8"	205	13	5	25	15
	9"	230	13	5	30	20
	12"	305	13	5	30	20

NOTE:

- We usually make water stoppers according to the chart above.
- For the convenience of buyers, they can customize the product according to their requirements (with a minimum order of 500 meters).
- We have the capacity to manufacture water stoppers in widths ranging from 150mm to 350mm, lengths ranging from 30 to 36 meters, and thicknesses ranging from 3mm to 14mm.

This means that you can make water according to your needs if you want. This opportunity is only available from us in Bangladesh.

Thank you.



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First Water Stopper Co. In Bangladesh

OUR Family Company

- TLMH Suppliers In Bangladesh LTD.
- Tangail Lawn Mower House
- Tangail Lawn Mower House (Service Center-1)
- First Water Stopper Company In Bangladesh
- Shundarban Agro Farm



TLMH LTD.
Suppliers in Bangladesh



THANK YOU



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