



## TEST REPORT OF PVC PIPES

026594

18 October 2023

CLIENT : SUPERINTENDING ENGINEER  
SYLHET CITY CORPORATION  
NAGAR BHABAN, SYLHET

CLIENT'S REFERENCE : Memo No. 358/2023; Dated: 20.09.2023

UNIVERSITY REFERENCE : BRTC NO. 1103-01254/ME/2023-24; Dated: 23.09.2023  
[ME Job No: 15616]

SAMPLE SUPPLIED : i. 200 mm dia. PVC Pipe, Class-C  
ii. 300 mm dia. PVC Pipe, Class-D

BRAND NAME : AFROOZ POLYMER

SAMPLE CONDITION : Unsigned & Unsealed

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

TEST RESULTS

## DIMENSION TEST

Standard Used: BS 3505 : 1968

| Sample Size and Class         | Outside dia. (mm) |       |       | Wall thickness (mm) |      |      | Remarks                                      |
|-------------------------------|-------------------|-------|-------|---------------------|------|------|----------------------------------------------|
|                               | Max.              | Min.  | Avg.  | Max.                | Min. | Avg. |                                              |
| 200 mm dia. PVC Pipe, Class-C | 219.5             | 218.7 | 219.0 | 9.3                 | 8.9  | 9.0  | Conforms to the requirement of the standard. |
| 300 mm dia. PVC Pipe, Class-D | 325.6             | 323.7 | 324.4 | 17.5                | 16.2 | 17.0 | Conforms to the requirement of the standard. |

## SHORT-TERM HYDROSTATIC PRESSURE TEST

Standard Used: BS 3505 : 1968

| Sample Size and Class         | Test Temp. and Duration | Applied Pressure (psi) | Observations            | Remarks                                      |
|-------------------------------|-------------------------|------------------------|-------------------------|----------------------------------------------|
| 200 mm dia. PVC Pipe, Class-C | 20°C, 1 hr.             | 470                    | No leakage was observed | Conforms to the requirement of the standard. |
| 300 mm dia. PVC Pipe, Class-D | 20°C, 1 hr.             | 620                    | No leakage was observed | Conforms to the requirement of the standard. |

## RESISTANCE TO ACETONE TEST

Standard Used: BS 3505 : 1968

| Sample Size and Class         | Observations                                   | Remarks                                      |
|-------------------------------|------------------------------------------------|----------------------------------------------|
| 200 mm dia. PVC Pipe, Class-C | No delamination or disintegration was observed | Conforms to the requirement of the standard. |
| 300 mm dia. PVC Pipe, Class-D | No delamination or disintegration was observed | Conforms to the requirement of the standard. |

## IMPACT TEST

Standard Used: BS 3505 : 1968

| Sample Size and Class         | Observations                 | Remarks                                      |
|-------------------------------|------------------------------|----------------------------------------------|
| 200 mm dia. PVC Pipe, Class-C | No failure out of 14 strikes | Conforms to the requirement of the standard. |
| 300 mm dia. PVC Pipe, Class-D | No failure out of 14 strikes | Conforms to the requirement of the standard. |

Countersigned by:

Test Performed by:

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