



TARIMAS JAYA SDN BHD

(Co.No.475074-U)

**TJ_{TM} ABS PIPES
& FITTINGS**



At The Forefront

As Malaysia and the World charge forward to rise beyond tomorrow, high quality products are expected by better informed consumers to keep pace with rapidly changing quality of life.

As premier **ABS water systems** manufacturer, we at Tarimas Jaya Sdn Bhd acknowledge this demand. i.e. Demand for excellence to compliment the modern lifestyle. Since our establishment in 1999, we have always believed in giving **the best**. In accordance to our Company's motto, every production run for TJ™ products is attended to with up most care and attention to detail.

Overseas training, on-the-job training and positive motivation will continue to generate dedicate employees and our clients of great products.



Table 1 | **Dimensions of ABS pressure pipe**

| Normal size DN | Outside diameter | | | | Wall thickness | | | | | | | | | |
|----------------|------------------|-------|----------------|-------|----------------|------|---------|------|---------|------|----------|------|----------|------|
| | Mean diameter | | Diameter range | | Class 4.6 | | Class 6 | | Class 9 | | Class 12 | | Class 15 | |
| | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. |
| 15 | 21.2 | 21.5 | 21.1 | 21.5 | - | - | - | - | - | - | - | - | 2.0 | 2.4 |
| 20 | 26.6 | 26.9 | 26.5 | 27.0 | - | - | - | - | - | - | - | - | 2.4 | 2.9 |
| 25 | 33.4 | 33.7 | 33.3 | 33.8 | - | - | - | - | 1.9 | 2.3 | 2.5 | 2.9 | 3.1 | 3.6 |
| 32 | 42.1 | 42.4 | 42.0 | 42.5 | - | - | - | - | 2.4 | 2.8 | 3.1 | 3.7 | 3.9 | 4.4 |
| 40 | 48.1 | 48.4 | 48.0 | 48.5 | - | - | - | - | 2.7 | 3.2 | 3.6 | 4.1 | 4.4 | 5.0 |
| 50 | 50.2 | 60.5 | 60.0 | 60.6 | - | - | - | - | 3.4 | 4.0 | 4.5 | 5.1 | 5.5 | 6.3 |
| 80 | 88.7 | 89.1 | 88.4 | 89.3 | - | - | 3.4 | 4.0 | 5.0 | 5.7 | 6.6 | 7.5 | 8.1 | 9.1 |
| 100 | 114.1 | 114.5 | 113.7 | 114.9 | 3.3 | 3.9 | 4.4 | 5.0 | 6.5 | 7.3 | 8.5 | 9.5 | 10.4 | 11.6 |
| 150 | 168.0 | 168.5 | 167.4 | 169.1 | 4.9 | 5.6 | 6.5 | 7.3 | 9.5 | 10.7 | 12.5 | 13.9 | 15.3 | 17.0 |
| 200 | 218.8 | 219.4 | 218.0 | 220.2 | 6.4 | 7.2 | 8.4 | 9.5 | 12.4 | 13.9 | 16.3 | 18.1 | 19.9 | 22.1 |

QUALITY CONTROL FLOW CHART

INCOMING RAW MATERIAL

VISUAL INSPECTION

- 1 PACKING CONDITION
- 2 RESIN SHAPE
- 3 RESIN COLORATION

OK

PRODUCTION

VISUAL CHECKING

- RAW MATERIAL IN PRODUCTION LINE

PIPE PRODUCE (PRODUCT)

INSPECTION DURING PRODUCTION RUN

- 1 OUTSIDE DIAMETER (OD)
- 2 EVEN WALL THICKNESS
- 3 EXTERNAL SURFACE CONDITION
- 4 INTERNAL SURFACE CONDITION
- 5 PIPE COLORATION
- 6 METER LENGTH
- 7 END CUT

OK

ACCEPT FOR FOLLOWING TEST

PHYSICAL TESTING

- HEAT REVERSION TEST
- WEIGHT TEST
- IMPACT TEST
- SHORT TERM HYDROSTATIC TEST

- PRODUCT ACCEPTED BASED ON HEAT REVERSION TEST

STORE

NOT OK

REJECT TO SUPPLIER

ACTION: STORE

NOT OK

REJECT

ACTION: PRODUCTION SUPERVISOR

RECYCLE

NOT OK

RETESTING

3 SAMPLES FROM SAME LOT

NOT OK

SEND TO SIRIM FOR TESTING

(LONG TERM TEST)

OK

NOT OK

RECYCLE

TJ™ ABS Water Systems Installation Guide

1. It is imperative to use only complete TJ™ ABS Water System.

- Use of other material within the system may lead to system failure;
- The TJ™ pipes and fitting are manufactured to higher tolerances and are no compatible with any other pipes and fittings;
- Damage resulting from failure to adhere to the guidelines as described below will be at the responsibility of the installer.

2. TJ™ ABS Water Systems installation guidelines are:

- Cut TJ™ pipe squarely using dedicated fine tooth hand saw.
- Ensure a clean and even cut before inserting into fittings.
- Use approved plumbing thread tape on all threaded TJ™ fittings.
- Avoid sharp bend at all cost, sharp bend should be made using appropriate TJ™ fittings.
- Any bored holes through concrete wall or panel should be smooth and large enough to allow free movement of pipe.

3. Pipe installation in open trench:

- Cleaning and flushing. Inside of all pipes and fitting shall be smooth and free from grease, sand and dirt before installation.
- Where the laying specifications permit, allow pipe to be mole ploughed in. Special care shall be taken that pipe is not subjected to excessive tension during or after the ploughing operation.
- Bedding preparation. The trench shall be excavated in accordance with the plans and specification which should provide as narrow a trench as is practicable at the level of the top of the pipe, with a bed width not more than 200mm, wider than the nominal diameter of the pipe, or twice the pipe diameter, whichever is smaller.

The space between the pipe and the trench wall is necessary only on ensure good placement of the side filling. When pipes are jointed on the ground surface and fed into an open trench width can be kept to an absolute minimum consistent with ground conditions. Rock pinnacles should be covered with at least 50mm and preferable 75mm of bedding material.

WARRANTY TERMS AND CONDITIONS

1. TJ™ pipe has a warranty of 8.5 years for External application and 10 years for internal application.
2. Warranty period is applicable on a pro- rated basis against manufacturing defects only for TJ™ ABS Water System. Tarimas Jaya's liability is strictly limited to the replacement of pipes and fitting only.
3. The manufacturer will not be liable for any consequent losses, improper use or incorrect installation of TJ™ ABS Water System.
4. TJ™ ABS Water System is to be used for transporting cold water at stationary position only.

Table 2

shows the minimum depths of cover permitted over the pipe, unless special means are adopted for protecting the pipe from load due to backfill and superimposed load.

MINIMUM DEPTHS OF COVER - PRESSURE SYSTEMS

| Location | Minimum depth of cover (mm) |
|--|-----------------------------|
| Road and streets... | 750 |
| Driveways and similar areas subject to traffic | 600 |
| Footpaths, gardens and open country | 500 |



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