

LEAP CIVIL NO-DIG BORE PIPE



ABOUT US

Leap Civil is the exclusive distributor for DAMOS No-Dig Bore U-PVC pipe system in Victoria, New South Wales and Queensland Australia.

Products and solutions from Leap Civil include SuperSleve Vitri-fied Clay Piping, FlexSeal Flexible Couplings, Advance Maintenance Shafts, Polymer Concrete Piping Systems and a range of drainage and stormwater piping solutions.

PVC PIPE SYSTEMS

DAMOS manufacture and supply PVC pipes from 50mm OD to 250mm OD in both U-PVC and M-PVC, featuring class 9, 12, 16, 18 and 20. DAMOS produce PVC pipes in standard 1085mm lengths and are approved by all Australian State Network providers.

DAMOS PVC pipes are manufactured to AS/NZS 1477 and AS/NZS 4765, and in the case of series 2 PVC come as standard with a Rubber Ring Joint (RRJ) style socket.

DAMOS PVC pipes are the go to pipes for any of Australia's water authorities, and are ideal for trench style installations, due to their simplicity and ease of installation and their extremely low rates of leaks and failure.

KEY BENEFITS

- Lightweight
- Leak free joints
- Invulnerable to external and internal corrosion
- Excellent chemical resistance
- Low coefficient of friction
- Reduced risk of internal blockages
- Quick installation time
- Long Service Life (50+ years)
- Material Flexibility

UPVC Series 1 Pressure Pipes AS/NZS 1477

PN9

NOM BORE	OD	MEAN BORE	MIN WALL	MAX WALL	AVG WALL	WEIGHT KG/M
150	160.2	146.8	6.3	7.1	6.7	4.7
225	250.4	231.7	8.8	9.9	9.4	10.3

TECHNICAL INFORMATION

JOINTING PROCEDURE

- Leap Bore/NO DIG pipe is manufactured from solid wall uPVC pipe Class 9 water main pipe to AS/NZS 1477 PVC pipes and fittings for pressure applications.
- Each end is machined to provide compression joint once solvent cement jointing has taken place.
- For this application Type P Solvent Cement (Green) is used as for pressure applications, designed to develop high shear strengths with an interference fit joint geometry.

1. PREPARE THE PIPE

Before jointing, check that the pipe has been cut square and all the burrs are removed from the inside and outside edge and machined surface is smooth.

2. PREPARE WITH PRIMING FLUID

Priming is vitally important, as it cleans and primes the uPVC surface for the solvent cement's effective bond. Using protective gloves, dry, degrease and prime the spigot and socket with a lint-free cloth (natural fibres) dampened with priming fluid.

3. APPLY SOLVENT CEMENT

Using a suitably sized brush, apply an even coat of solvent cement to the internal surface of the socket first. Solvents will evaporate faster from the exposed spigot than from the socket. Special care should be taken to ensure that excess solvent cement isn't built up at the back of the socket (pools of solvent will continue to attack the PVC and weaken the pipe). Next apply a similar even coat of solvent cement up to the machined surface of the spigot. Ensure the entire surface is covered. A 'dry' patch will not develop a proper bond, even if the mating surface is covered, and may also make it difficult to obtain full insertion.

4. INSERTING THE SPIGOT

Make the joint immediately, in a single movement. Do not stop halfway, since the bond will start to set immediately and it will be almost impossible to insert further. It may aid distribution of the solvent cement to twist the spigot into the socket so that it rotates about a 1/4 turn whilst (not after) inserting. Where this cannot be done, particular attention should be paid to uniform solvent cement application.

5. PUSH THE SPIGOT HOME

Push the spigot fully home witnessed by the outer surfaces coming together.

6. HOLD THE JOINT

Hold the joint against movement and rejection for a minimum of 30 seconds. Disturbing the joint during this phase will seriously impair the strength of the joint.

7. WIPE OFF EXCESS SOLVENT CEMENT

For a neat professional joint, with a clean rag, immediately wipe off excess solvent cement from the outside of the joint.

QUALITY ASSURANCE & ACCREDITATIONS

QUALITY ASSURANCE

NO-DIG Bore Pipe is manufactured in Western Australia by NO DIG Equipment in conjunction with David Moss Corporation Pty Ltd who supply the solid wall uPVC Class 9 pipe.

The pipe is manufactured to "AS 1477 : 2006 – PVC pipes and fittings for pressure applications" has gained WaterMark Certificate WMKA25601 as well as the David Moss Corporation has a Quality Management System complying with ISO 9001:2008 both issued by SAI Global.

The pipes are 1 metre effective length to suit the NO DIG boring equipment. The pipe construction is a flush butt joint socket and spigot solvent weld joint. The pipe is certified for sewer and correlates to standard sizes of DWV pipe and associated couplings.

It is currently approved for use by South East Water and listed on the MRWA web portal as an approved pipe system.

Pipes may be jointed to provide 2 or 3 metre lengths to suit other boring machine's stroke.

The joint is machined to a high quality finish to provide a butt spigot and socket. Pipe is jointed first prepared using primer and then Type P Solvent cement (Green) is used to develop high shear strengths with interference fit.

The butt joint allows for immediate thrusting as the pipe cannot ride into the socket like a standard socket and spigot solvent weld joint.

The NO DIG bore pipe has been available for a number

of years and was used extensively, approximately 21 kilometres, in the sewerage of Rye by sand boring around 7 years ago. On completion both air and ovality testing was carried out without one failure.

Leap Civil Pty Ltd has a distribution agreement with NO DIG Equipment as the major supplier on the east coast.

AS/NZS 1477 - PVC PIPES AND FITTINGS FOR PRES- SURE APPLICATIONS

- Applicable Market: Australia and New Zealand
- These products are manufactured under Watermark licence No: WMKA25601



WaterMark

AS/NZS 1477

Licence No: WMKA25601

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