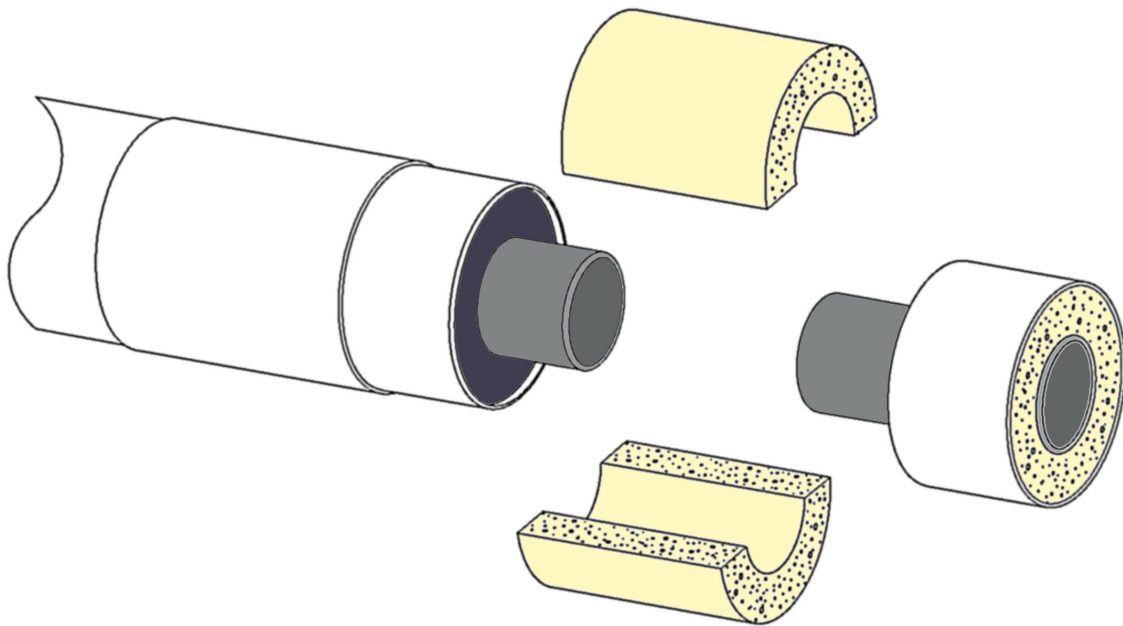


**Thermal Pipe Systems, Inc.**

# WELD-TITE®

Steel Piping System  
For  
Low Temperature Hot Water and Chilled Water



Weld-Tite is energy efficient piping system that is easy to install. It is used in hot water service to 250°F at pressures to 150psi.

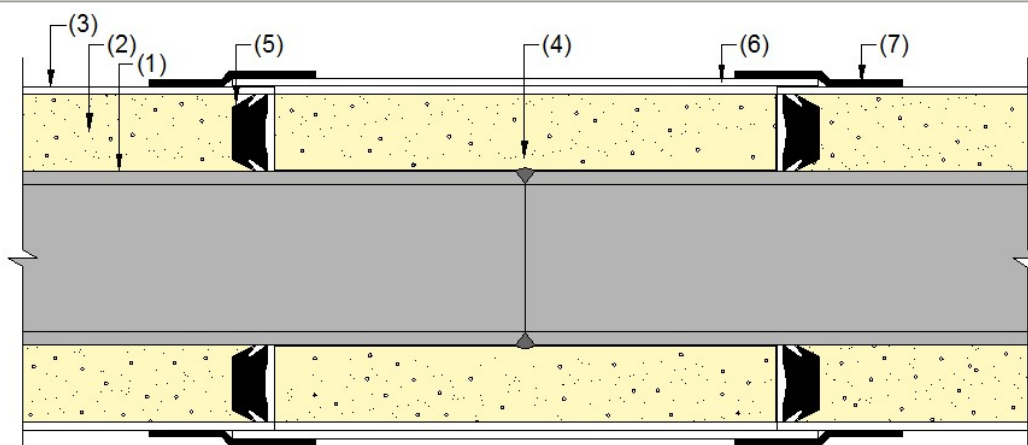
The standard carrier pipe is schedule 40 A-53 steel pipe. Other grades of steel are available if specified.

Insulation is thermally efficient polyurethane foam with a 'K' factor of 0.16 at

70°F. The heavy wall PVC or HDPE casing and heat resistant end seals keep the insulation dry. Pre-insulated fittings are available, or if specified, insulation kits can be supplied to field insulate the fittings.

The Thermal Pipe Systems Casing-Tite Sleeve provides an easy and efficient means of insulating the joints.

# WELD-TITE®



- (1) CARRIER: Black steel as specified.
- (2) INSULATION: Polyurethane Foam
- (3) CASING: PVC or HDPE
- (4) WELD
- (5) END SEAL: EPDM
- (6) CASING-TITE SLEEVE: PVC or HDPE
- (7) CASING-TITE SEAL: 30 mil High Temperature Tape

NOMINAL PIPE SIZE (IN.)	NOMINAL CASING SIZE (IN.)	CARRIER O.D. (IN.)	CASING O.D. (IN.)	THICKNESS		WEIGHT (LBS./ 20 FT.)
				FOAM (IN.)	PVC CASING (IN.)	
1 1/2	4	1.90	4.50	1.16	0.140	83
2	4	2.38	4.50	0.92	0.140	101
2 1/2	6	2.88	6.14	1.51	0.120	153
3	6	3.50	6.14	1.20	0.120	188
4	8	4.50	8.16	1.67	0.160	281
5	8	5.56	8.16	1.14	0.160	355
6	10	6.63	10.20	1.59	0.200	478
8	12	8.63	12.24	1.57	0.240	708
10	14	10.75	14.28	1.49	0.280	998
12	16	12.75	16.00	1.38	0.250	1176
14	18	14.00	18.70	1.98	0.370	1412
16	21	16.00	22.05	2.59	0.430	1681
18	21	18.00	22.05	1.60	0.430	1843
20	24	20.00	24.80	1.92	0.480	2135
24	27	24.00	27.95	1.43	0.550	2504

NOTE: Standard lengths are 20'-0" or 40'-0". Weights are approximate. Consult manufacturer for HDPE dimensional data.

## SHORT FORM SPECIFICATIONS

1.1 All underground pre-insulated pipe 1-1/2" – 24" shall be Thermal Pipe Systems, Inc. Weld-Tite® piping with welded joints.

1.2 Steel carrier pipe shall be black steel of the type, grade, and class specified by the design engineer. The pipe shall be suitable for use at maximum hydrostatic working pressure of 150 psi at 250°F.

1.3 Joints shall be welded by the contractor in accordance with contract specifications.

1.4 Casing pipe shall be [Polyvinyl Chloride (PVC) meeting the minimum classification requirements of ASTM D-1784] or [High Density Polyethylene (HDPE)]. The thickness shall be in accordance with the Thermal Pipe Systems published data.

1.5 The insulation shall be polyurethane foam completely encapsulated on each end by a compression rubber end seal. Pipe joints shall be insulated using polyurethane foam half shells and protected with a Casing-Tite Sleeve.

1.6 The rubber end seals shall be an

Ethylene Propylene Diene Monomer (EPDM) heat resistant compound.

1.7 Fittings may be uninsulated using welded steel fittings. Fittings may also be pre-insulated by Thermal Pipe Systems, Inc. using the same carrier pipe, insulation thickness, and casing as the straight lengths of pipe.

1.8 After completion of hydrostatic testing, joints shall be closed using factory supplied 30 mil high temperature tape. It shall be applied circumferentially around the seam between the coupling and pipe casing.

## WARRANTY

We warrant that our products are manufactured with the applicable material specifications and are free from defects in the workmanship and material using our specifications as a standard. Every claim under this warranty shall be deemed waived unless in writing received by Thermal Pipe Systems, Inc. within (30) days of the date the defect was discovered and within (1) year of the date of shipment of the product. Thermal Pipe Systems, Inc. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IN FACT OR IN LAW, INCLUDING WITHOUT LIMITATION THE WARRANTY OF MERCHANTABILITY OR THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, OTHER THAN THE LIMITED WARRANTY SET FORTH ABOVE.

## LIMITATIONS AND LIABILITY

It is expressly understood and agreed that the limit of Thermal Pipe Systems, Inc. liability shall be the resupply of a like quantity of nondefective product and that Thermal Pipe Systems, Inc. shall have no such liability except where the damage or claim results solely from the breach of the Thermal Pipe Systems, Inc. warranty. IT IS ALSO AGREED THAT THERMAL PIPE SYSTEMS, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES FOR ANY ALLEGED NEGLIGENCE, BREACH OF WARRANTY, STRICT LIABILITY OR ANY OTHER THEORY, OTHER THAN THE LIMITED LIABILITY SET FORTH.



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