

Bondstrand®

Guide for Installing Buried Pipe

Introduction

To ensure long life and trouble-free service from a piping system, proper application of the essential principles of excavation, laying and jointing, bedding backfilling and field testing is required. If pipe is installed by a contractor it is equally essential that these principles be reflected in the phrasing of contract documents and that the customer enforce them through its inspection. The recommended practices presented in this guide for the installation of buried Bondstrand pipe are developed from the two basic concepts outlined below. Both should be rigorously maintained to obtain best results.

First, the manufacturer's recommendations for assembling pipe sections and curing the joints should be carefully followed. Second, each section of pipe should have its support well distributed under the pipe rather than concentrated at points or along a narrow portion of the pipe bottom. This is accomplished by providing proper bedding.

These instructions are intended to be used as a guide and should be amended of a specific job. Because any specification should be properly administered and expanded to meet the requirements enforced, there is no assurance-specific or implied that inclusion of these paragraphs in a specification will insure a successful job; however, they should assist materially in accomplishing this objective.

1. Receiving, Storing and Handling of Pipe

1.1 Inspect incoming shipments of Bondstrand pipe and fittings for abuse in shipping. Broken pipe bundles, crushed fittings boxes, scratched and gouged pipe and pipe with crushed or split ends are evidence of such abuse. If abuse is evident, damage claims procedures must

be initiated prior to accepting the shipment. Under shipping procedure, title passes at the time of shipment.

1.2 Do not throw or drop pipe and fittings-protect from all types of impact. Bondstrand may be damaged by careless handling, sometimes without exhibiting visible effects on the pipe surface.

1.3 Pipe or pipe bundles may be stored for extended periods in stacks up to 4 foot high. The sides must be stabilized to prevent slumping. A leveled, soft earth surface free of rocks and other hard or sharp objects is recommended. If stored in racks or on bearing boards, the supports should be at least 3 inches wide and smooth or cushioned. The supports should be placed at two locations approximately 4 or 5 feet from each end for 20-foot lengths. For 40-foot lengths, 4 supports should be used with two of them placed approximately 4 or 5 feet from each end and the other two placed at 10-foot intervals to support the middle of the pipe.

1.4 Follow normal procedures for stringing pipe along work site, placing pipe where it will be protected from traffic and impact.

1.5 Pipe supplied in 20-foot lengths should be lifted and carried at the center by hand or using webbed straps or rope. If handled at the ends, avoid touching and contaminating the joining surfaces.

1.6 Pipe supplied in 40-foot lengths should be lifted (and carried) at two points about 10 feet from each end. Use rope or web slings for mechanically lifting the pipe. Weight of 40-foot lengths are

Diameter (in.)	Weight (40 ft. length) lb.
4	75
6	120
10	215
8	170
12	250

1.7 For work on the pipe, such as cutting, preparing ends, or cleaning, two-point support is recommended for 20-foot lengths, and three-point support for 40-foot lengths.

Note: Do not place supports under bells, spigots or factory-made joints.

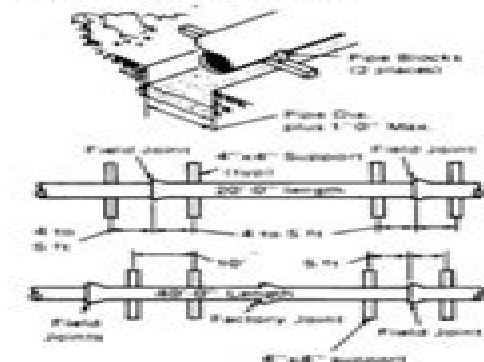
2. Assembly of Pipe and Fittings

2.1 Prepare and assemble Bondstrand Quick-Lock® joints in accordance with the Bondstrand Assembly Instructions, using special care to keep joint surfaces clean and dry.

Note: Be sure all pipe assemblers are thoroughly trained in Bondstrand assembly procedures, and recognize the importance of using proper techniques.

2.2 Position pipe on timbers across ditch as shown in figure below. Block into position to hold alignment and prevent lateral movement. For larger diameters the use of a winch is recommended to assemble and hold joint as illustrated in Bondstrand Assembly Instructions.

Positioning Pipe Over Ditch



Bondstrand Installation Guide

Robert R. Redfield



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Canadian Mining Journal's Reference Manual & Buyer's Guide ,1969 **Approval Guide** ,1995 *Advanced Materials for Water Handling* D.V. Scott,2000-08-18 Rapid evolution is taking place in the water market world wide driven by increased consumer demand allied to the rarefaction of clean water The inherent characteristics of composites materials associated with current materials and production technology is allowing the increased use of previously high cost materials and processes at ever decreasing costs The Handbook is designed to bring specifiers up to speed with these materials and the new areas of application associated with them exploring the scope performance cost effectiveness and environmental and legislative consequences of their use Handbook of Thermoplastic Piping System Design Thomas Sixsmith,Reinhard Hanselka,1997-07-15 Offers coverage of design engineering chemical resistance costs standards codes and specifications The text provides a resistance guide that lists over 800 chemicals and nearly 400 trade names cross referenced to formal chemical names covering all known chemical resistance data for the most popular thermoplastic piping systems The book covers *NACE Corrosion Engineering Buyer's Guide* ,1981 *Dun's Review and Modern Industry* ,1961 *Thomas Regional Industrial Buying Guide* ,2003 **Chemical Engineering** ,1988 *Waste Age* ,1994 The official magazine of Waste Expo **Water & Sewage Works** ,1969 Vols 76 83 93 include Reference and data section for 1929 1936 46 1929 called Water works and sewerage data section *Railway Signaling and Communications* ,1945 **Public Works Manual** ,1979 *Industrial Equipment News* ,1978 *Petroleum Engineer International* ,1987 *Geothermal Energy* United States. Dept. of Energy. Division of Geothermal Energy,1983 **The Reinforced Plastics Handbook** John Murphy,1998 The new second edition of Reinforced Plastics Handbook has been completely revised and updated to reflect changes new techniques and components and provides new information including Thermosetting resins polyesters vinyl esters high performance resins Reinforced thermoplastics low warpage hydrolysis resistant grades new forms of glass fibre natural resins and fibres Major extensions on liquid crystal polymers long fibre reinforced thermoplastics polyurethanes and core materials Major additions to moulding processing technology latest developments in RTM SCRIMP An enlarged chapter on design and applications to include extended data on sandwich constructions and polyurethane reinforced reaction injection moulding The latest legislation including consumer safety flame retardency toxicity and safety in the workplace styrene emission control solvents low dust reduced allergy materials **Plant Engineering** ,1960 **Pipeline Technology** R. Denys,2000-12-05 **Regional Industrial Buying Guide** ,1996 **Geothermal Energy** ,1983

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