

# 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.

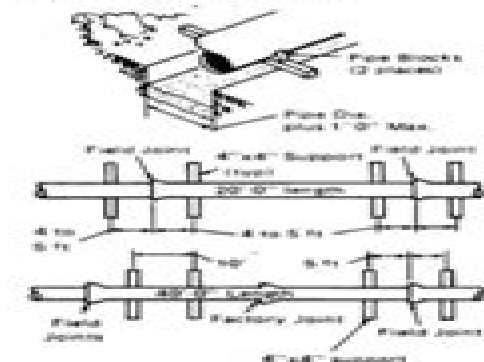
### 2. Assembly of Pipe and Fittings

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 Guide

**L Darling-Hammond**



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