

# A STEP-BY-STEP GUIDE FOR INSTALLING POLYETHYLENE ENCASEMENT ON DUCTILE IRON PIPE

**T**HIS POLYETHYLENE SLEEVE (polywrap) is placed on Ductile Iron pipe to prevent corrosion. It does not have to be sealed watertight, but it should be installed so that no dirt or bedding material comes in contact with the pipe. All lumps of clay, mud, cinders, etc., on the pipe surface should be removed before the pipe is covered with polyethylene. If the polyethylene is damaged, it must be repaired before the trench is backfilled.

Small holes or tears can be repaired with a piece of tape placed over the hole. Large holes or tears should be repaired by taping another piece of polyethylene over the hole.

Overlaps, ends, and repairs can be held in place with tape or plastic tie straps until the trench is backfilled.

Other general tips for proper installation include:

- When lifting polywrapped pipe with a backhoe, use a fabric-type "sling" or padded cable to protect the polyethylene.
- When installing polywrap below the water table or in areas subject to tidal action, seal as thoroughly as possible both ends of each polyethylene tube with adhesive tape or plastic tie straps at the joint overlap.
- Also, place tape or plastic tie straps around the pipe at two (2) foot intervals.
- Quality of installation is more important than the actual sequence followed.

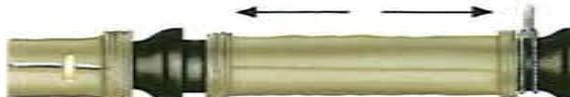
## FOLLOW THESE STEPS FOR EASY INSTALLATION



**STEP 1**  
Clean all dirt, cinders, etc., from the surface of the pipe. Cut polyethylene two (2) feet longer than the pipe. Slip polyethylene over spigot end and bunch as shown above.



**STEP 2**  
Dig bell holes at joint locations, lower pipe into trench and make up joint.



**STEP 3**  
Move cable hoist to bell end of pipe and lift enough to slip polyethylene along pipe as shown above.



**STEP 4**  
Pull polyethylene forward from previous joint over the bell and secure in place as shown.



**STEP 5**  
Pull polyethylene from new pipe over this same bell, providing a double layer of polyethylene and secure in place as shown.



**STEP 6**  
Take up slack in the tube along the pipe barrel, making a snug but not tight fit. Fold over on top of pipe and secure in place about every three (3) feet as shown.



**STEP 7**  
Make sure any tears in the polyethylene are repaired with tape or another piece of polyethylene secured over the damaged area.

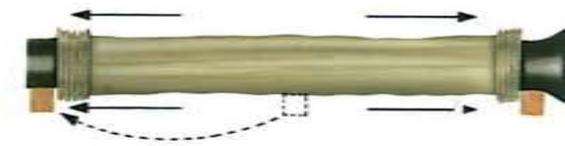


**STEP 8**  
Backfill the trench according to specifications, being careful not to damage the polyethylene while tamping around pipe. Backfill should not contain material that might damage the polyethylene.

### Wet Trench Installation



**STEP 1**  
Cut the polyethylene tube two (2) feet longer than pipe and slip over pipe as shown above.



**STEP 2**  
Spread the polyethylene tube as shown so that enough is left to provide a one (1) foot overlap at each end of pipe.



**STEP 3**  
Take up slack in the tube to make a snug but not tight fit and secure every two (2) feet with tape or plastic tie straps completely around the pipe.



#### STEP 4

Lower pipe into trench, being sure that the polywrap not damaged, and make up joint. Make overlap at joints as shown before. Be sure to secure the ends of the polyethylene with tape or plastic tie straps.

### Tapping Polywrapped Pipe

When tapping polywrapped Ductile Iron pipe, the following procedure is recommended.



#### STEP 1

Wrap two or three layers of tape completely around the pipe where the tapping machine will be placed.



#### STEP 2

Mount the tapping machine on the taped area and make the tap directly through the tape and polywrap. Install corporation stop.



#### STEP 3

Inspect the entire area for damage and repair if necessary.



#### STEP 4

Wrap any connected copper service line within three (3) feet of the pipe with polyethylene.

#### STEP 5

Backfill trench as described before.

Remember: If you have any problems or questions about installing polyethylene encasement, contact DIPRA or one of its member companies.

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## DUCTILE IRON PIPE THE RIGHT DECISION



Manufactured from recycled materials.

# POLYETHYLENE ENCASEMENT INSTALLATION GUIDE

*Effective, Economical  
Protection for  
Ductile Iron Pipe  
In Corrosive Environments*

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