

# V-Bio<sup>®</sup> Enhanced Polyethylene Encasement For Ductile Iron Pipe

## Suggested Specifications

Polyethylene encasement for use with ductile iron pipe shall be V-Bio<sup>®</sup> enhanced polyethylene encasement as manufactured by Balcan Plastics Limited/First Film Extruding or Crayex Corporation. V-Bio<sup>®</sup> enhanced polyethylene shall meet all the requirements for ANSI/AWWA C105/A21.5, *Polyethylene Encasement for Ductile Iron Pipe Systems*.

V-Bio<sup>®</sup> enhanced polyethylene encasement for use with ductile iron pipe systems shall comprise a co-extruded linear low-density polyethylene film of not less than 8 mils. The co-extrusion process shall infuse the innermost 1.5 mils of the film with a volatile corrosion inhibitor and an anti-microbial additive to provide active corrosion control. This innermost surface of the film shall be placed in direct contact with the pipe and pipeline appurtenances' outer surfaces around their full circumference and along their entire length.

The Ductile iron pipe shall be installed in accordance with ANSI/AWWA C600. The V-Bio<sup>®</sup> enhanced polyethylene encasement shall be installed using Modified Method A as described in ANSI/AWWA C105/A21. Modified Method A provides that the film shall be installed with a minimum one-foot overlap at the joints and

secured in place with a full wrap of tape around the pipe on the spigot and behind the bell to facilitate backfilling. Where service taps are to be installed, the procedure shall follow recommendations in accordance with ANSI/AWWA C105/A21.5. Prior to backfill, the encasement shall be inspected for accidental damage and repaired as provided in ANSI/AWWA C105/A21.5.

All installations shall be carried out by personnel trained and equipped to meet these various requirements.

The installing contractor shall submit an affidavit stating compliance with the requirements and practices of ANSI/AWWA C105/A21.5, and ANSI/AWWA C600.

# For more information contact DIPRA or any of its member companies.

## Ductile Iron Pipe Research Association

An association of quality producers dedicated to the highest pipe standards through a program of continuing research and service to water and wastewater professionals.

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## Member Companies

AMERICAN Ductile Iron Pipe  
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Canada Pipe Company, Ltd.  
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Hamilton, Ontario L8P 4M3 Canada  
[www.canadapipe.com](http://www.canadapipe.com)

McWane Ductile  
P.O. Box 6001  
Coshocton, Ohio 43812-6001  
[www.mcwaneductile.com](http://www.mcwaneductile.com)

U.S. Pipe  
Two Chase Corporate Drive  
Suite 200  
Birmingham, Alabama 35244  
[www.uspipe.com](http://www.uspipe.com)

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Visit our website, [www.dipra.org](http://www.dipra.org) and click on the YouTube icon for informational videos on Ductile iron pipe's ease of use, economic benefits, strength and durability, advantages over PVC, and more.

