Kanaflex®

# Connection of Kanapipe™ to Other Pipe Materials

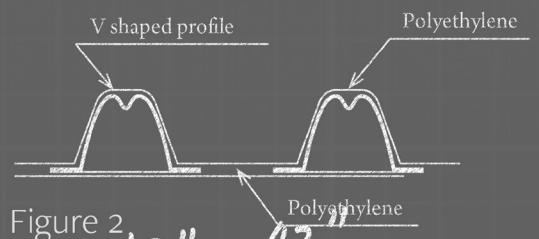



Figure 2

12" – 42"

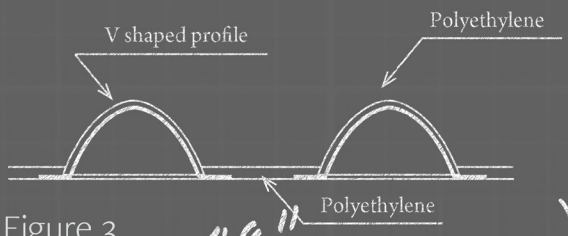



Figure 3

>48"

KanaPipe 12" Spec

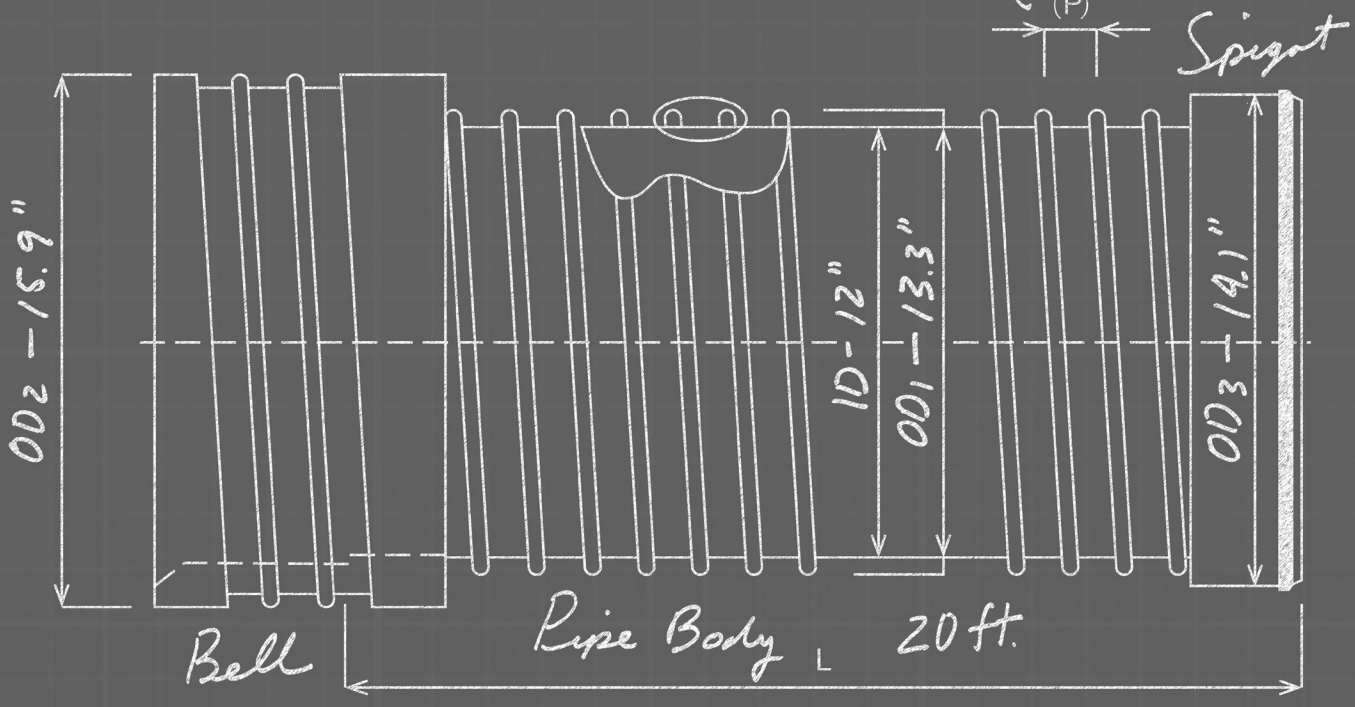



Figure 1

## Introduction

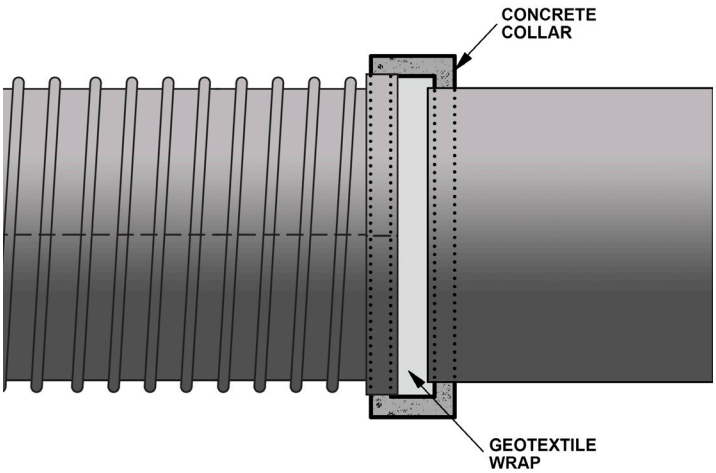
***Kanapipe™ is smooth interior, corrugated exterior Steel Reinforced Polyethylene (SRPE) pipe with an advanced galvanized V-shaped reinforcing steel profile fully encased in High Density Polyethylene (HDPE) combined with superior bell & spigot joint rated to 20 psi. These characteristics explain its increased popularity in the marketplace. Most of the time sanitary and/or storm sewer pipe installations will begin at either a new or an existing manhole. So, if you have decided to use Kanapipe™ for a subsequent phase of a project; it will not matter if a different pipe material was used for the preceding phase.***

***With this being said there might be rare instances when you will need to connect Kanapipe™ to a pipe made from a dissimilar material. Fortunately, Kanapipe™ can be easily connected to other pipe materials such as steel, concrete, HDPE, PP or PVC.***

## Connection to Other Pipe Materials

Several methods exist to connect dissimilar materials. One of the oldest and most traditional consists in abutting the two pipes to be joined together, wrap the connection with a non-woven geotextile then pour a concrete collar around the joint. This involves building a form around the area to be joined and encasing the geotextile in concrete. See Figure 1 below.

***Figure 1***
Example of Concrete Collar Coupler
with Geotextile Wrap




## Dissimilar Pipe Couplers

Specially designed couplers are available from a variety of manufacturers to effectively join dissimilar pipe materials and prevent infiltration into the pipe system. The ***Mar Mac Dissimilar Pipe Coupler*** manufactured by Mar Mac Construction Products is an effective joining system. It incorporates high strength steel straps and rubberized mastic laminated to a reinforced mesh. The couple compresses the specially formulated mastic to permanently bond to the pipe surface. All mastic materials are chemically inert and resistant to the effect of common soil conditions.

## *Installation of Dissimilar Pipe Coupler*

The Mar Mac Dissimilar Pipe Coupler (Figure 2) or an approved equal shall be installed according to the manufacturer's recommendations. The coupler shall have an outer cover of cross-laminated polyethylene with an under layer of rubberized bonding mastic that is reinforced with a woven polypropylene fabric. There shall be a removable protective film against the bonding mastic that must be removed before the coupler is applied to the joint. Compression bands shall be located within the coupler and will perform as compression seals at specific areas along each side of the joint.

1. The coupler shall be designed so that when it is applied around the joint the ends overlap a minimum of 8 inches on the largest pipe size to be connected.
2. A bell hole shall be dug under the joint with the pipe ends butted or the smaller pipe placed inside the larger pipe. The pipe should be aligned for efficient drainage flow.
3. The coupler shall be placed around the pipe, mastic side to the pipe, spanning the joint. All foreign materials shall be removed prior to placement.
4. The protective film shall be removed, and the coupler applied with the overlap at the top of the pipe.
5. The straps shall be secured (outside straps first) on the larger OD pipe with the proper tools; the securing straps on the outside of the smaller OD pipe shall then be secured. The inside strap shall be tightened last.
6. The closing flap shall cover all remaining exposed compression bands, completing the joint.

Additional information is available through the Mar Mac Construction Products Cie.

*Figure 2*
Dissimilar Pipe Coupler with Rubberized Sealing Mastic and Steel Compression Bands (ref. Mar Mac).

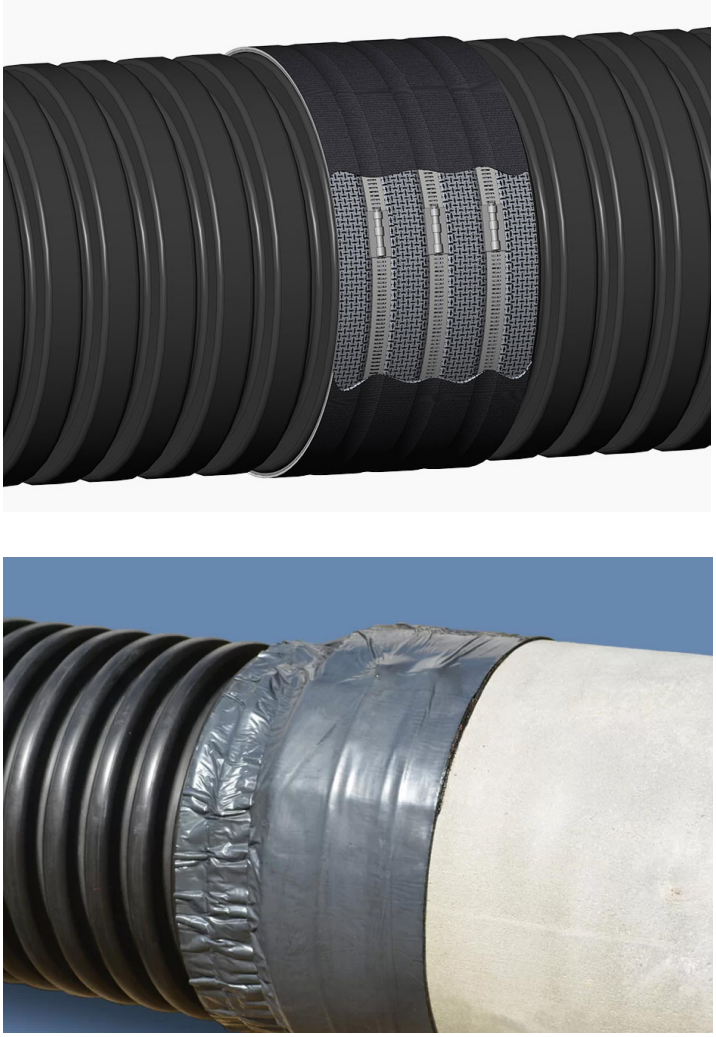


Illustration and photo courtesy of Advanced Drainage Systems, Inc.

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