



# AEGION<sup>®</sup>



## Stronger. Safer. Infrastructure.<sup>®</sup>

### Design Example

By combining innovative engineering technology with superior materials, Insituform provides a fully structural pipeline rehabilitation product with about half the wall thickness of conventional CIPP offerings.

#### iPlus<sup>®</sup> Composite Design Example\*

Host pipe diameter (in)	48
Host pipe ovality (%)	5
External head of water above invert (ft)	17
Soil depth above invert (ft)	25
Soil modulus (psi)	1000
Soil density (lb/ft <sup>3</sup> )	120
ASSHTO live load (lbs)	16,000
Safety factor	2
Design method	ASTM F1216

Design Values	Standard Insituform <sup>®</sup> CIPP	iPlus <sup>®</sup> Composite
Flexural modulus (psi)	400,000	850,000
Flexural strength (psi)**	4,500	4,500
Wall thickness (mm)	28.5	18.5

\*Data is provided as an example of the possible physical properties of iPlus<sup>®</sup> Composite. Actual results may vary depending on design and project specifications.

\*\*Minimum flexural strength for iPlus<sup>®</sup> Composite.

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