



AEGION[®]



Stronger. Safer. Infrastructure.[®]

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[®] 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 ³)	120
ASSHTO live load (lbs)	16,000
Safety factor	2
Design method	ASTM F1216

Design Values	Standard Insituform [®] CIPP	iPlus [®] 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[®] Composite. Actual results may vary depending on design and project specifications.

**Minimum flexural strength for iPlus[®] Composite.

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