



Strength and Durability for Life®



Thrust Restraint Design for Ductile Iron Pipe

Type of Fitting:

Combined Horizontal B

Angle of Bends:

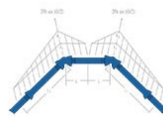
45 deg.

Diameter of Bends:

36 in.

Known Length (L):

9 ft.



Laying Condition:

Type 5

Soil Designation:

Clay 1

Depth Cover:

6 ft.

Design Pressure:

150 psi

Safety Factor:

1.5

Combined Horizontal Bends

Unit Frictional Force: 1,202 lbs/ft

Unit Bearing Resistance: 3,480 lbs/ft

Required restrained length on both sides of fitting:

L1 = 64 ft

Polyethylene Encased L1 = 75 ft