



Strength and Durability for Life®



## Thrust Restraint Design for Ductile Iron Pipe

### Project Name




### Project Data

Type of Fitting ?

Angle of Bends ?

Diameter of Bends ?  in.

Known Length (L) ?  ft.

Laying Condition ?

Soil Designation

Depth of Cover  ft.

Design Pressure ?  psi

Safety Factor ?

### Horizontal Offset

Unit Frictional Force **1,203** lbs/ft

Unit Bearing Resistance **3,482** lbs/ft

L1 **47.9** ft

Polywrapped L1 **58.1** ft

