

Pressure Pipe Thrust Block Design

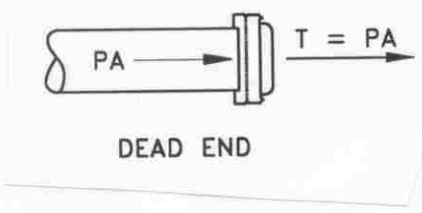
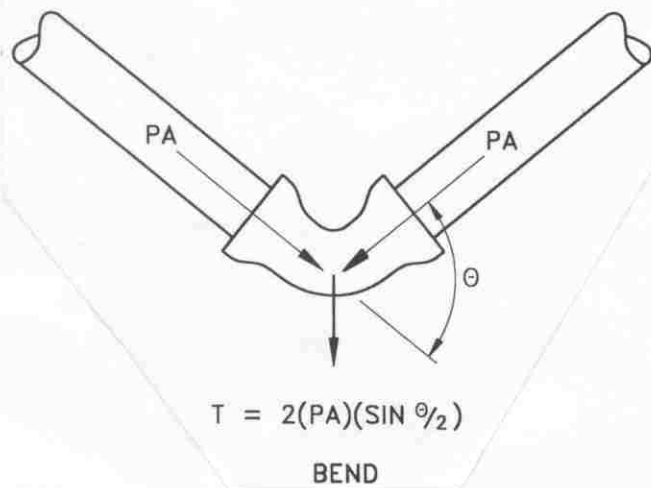
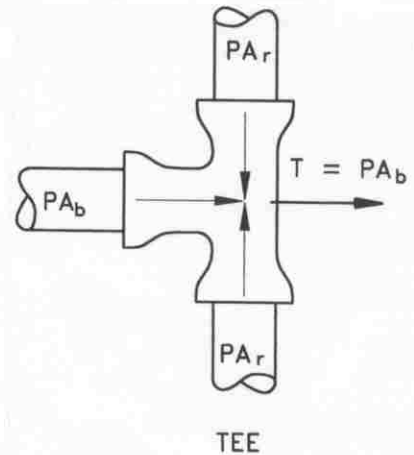
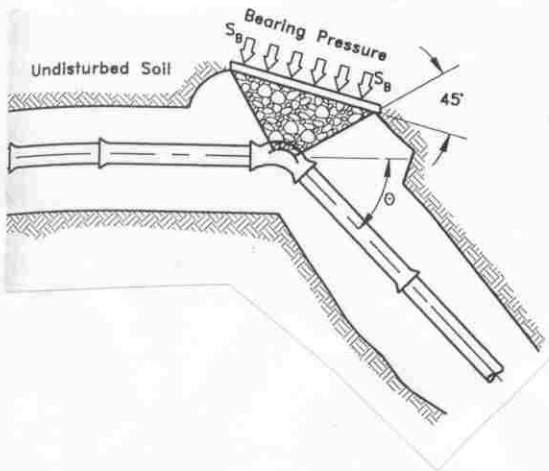


TABLE 13.17 Bearing Strength of Generalized Soils

SOIL	BEARING STRENGTH* (S_B) (LB/FT ²)
Muck	0
Soft Clay	1,000
Silt	1,500
Sandy Silt	3,000
Sand	4,000
Sandy Clay	6,000
Hard Clay	9,000

* Although the above bearing strength values have been used successfully in the design of thrust blocks and are considered to be conservative, their accuracy is totally dependent on accurate soil identification and evaluation. The ultimate responsibility for selecting the proper bearing strength of a particular soil type must rest with the design engineer.

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$A_b = T \times S_f / S_B$

A_b = Bearing Area of Thrust Block (Sq. Ft.)

T = Resultant Hydrostatic Pressure (psf)

S_f = Safety Factor (1.5)

S_B = Soil Bearing Strength (psf)