

AWWA C900 / C905 PVC Pipe Burial Depth Chart

These burial depth charts were developed using standard industry practices for predicting diametric deflection. The burial depths provided are based on the AWWA recommendation for maximum deflection of PVC pressure pipe of 5%. These charts do not apply for other values of deflection. A soil density of 120 lbs/ft³ and H2O highway loading was assumed. For shallow burials, the actual magnitude of the predicted deflection should be investigated to check for the possibility of road surface damage. The burial depths in these charts assume proper installation procedures.

Further information on this topic can be found in the following resources:

- PWEagle Technical Bulletin "Depth of Burial for PVC Pipe"
- PWEagle "Installation Guide: PVC Water Pipe"
- PWEagle Technical Bulletin "PVC Pipe Trench Construction"
- Uni-Bell "Handbook of PVC Pipe"

Applicability				
AWWA C900/C905 PVC Water Pipes				
DR 14				
Soil Class	Compaction (% Proctor)	E' Value (psi)	Maximum Burial (ft)	Minimum Burial (ft)
I	>95%	3,000	50+	1
	85%-95%	3,000	50+	1
	<85%	3,000	50+	1
	Loose	1,000	50+	1
II	>95%	3,000	50+	1
	85%-95%	2,000	50+	1
	<85%	1,000	50+	1
	Loose	200	48+	1
III	>95%	2,000	50+	1
	85%-95%	1,000	50+	1
	<85%	400	50+	1
	Loose	100	45+	1
IV	>95%	1,000	50+	1
	85%-95%	400	50+	1
	<85%	200	48+	1
	Loose	50	44+	1
V	NOT RECOMMENDED			
DR 18				
Soil Class	Compaction (% Proctor)	E' Value (psi)	Maximum Burial (ft)	Minimum Burial (ft)
I	>95%	3,000	50+	1
	85%-95%	3,000	50+	1
	<85%	3,000	50+	1
	Loose	1,000	50+	1
II	>95%	3,000	50+	1
	85%-95%	2,000	50+	1
	<85%	1,000	41+	1
	Loose	200	23+	1
III	>95%	2,000	50+	1
	85%-95%	1,000	50+	1
	<85%	400	28+	1
	Loose	100	21+	1
IV	>95%	1,000	50+	1
	85%-95%	400	37+	1
	<85%	200	23+	1
	Loose	50	20+	1
V	NOT RECOMMENDED			

