

Embedment Depth Soil Conditions

For Steel & Aluminum

Most pole manufacturers use a general rule of embedding the pole 10% of mounting height + 2'-0" for total embedment: Example a 30' MH pole would = 3' + 2' = 5' of embedment.

This is just a general rule and it assumes 2,000 PSI soil bearing pressure.

If there is any question please e-mail us at PolesCentral@AcuityBrands.com to confirm the embedment depth.

Soils & Foundations

Allowable Foundation and Lateral Pressure*

Class of Material	Allowable Foundation Pressure (psf)	Lateral Bearing (psf/f below natural grade)	Lateral Sliding Coefficient of Friction	Resistance (psf)
Crystalline bedrock	12,000	1,200	0.70	---
Sedimentary and foliated rock	4,000	400	0.35	---
Sandy Gravel and/or gravel (GW and GP)	3,000	200	0.35	---
Sandy, silty sand, clayed sand, silty gravel and clayed gravel (SW, SP, SM, SC, GM and GC)	2,000	150	0.25	---
Clay, sandy clay, silty clay, clayey silt, silt and sandy silt (CL, ML, MH and CH)	1,500	100	---	130

*According to 2006 International Building Code, Table 1804.2