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* SOIL CLASSIFICATION CHART

AMERICAN PETROLEUM INSTITUTE

SAFE BEARING CAPACITY OF SOILS *

Type of Soil	lbs /ft²
Soil ledge of hard rock, such as granite, trap, etc	50,000 — 200,000
Sound shale and other medium rock requiring blasting for removal	
Hard pan, cemented sand and gravel difficult to remove by picking	16,000 — 20,000
Soft rock, disintegrated; in natural ledge difficult to remove by picking.	10,000 — 20,000
Compact sand and gravel requiring picking for removal	
Hard clay requiring picking for removal	8,000 — 10,000
Gravel, coarse sand in natural thick beds	
Loose, medium, and coarse sand, fine compact sand	
Medium clay, stiff but capable of being spaded	
Fine loose sand	0.000 1.000
Soft clay	2,000
* Values taken from Mark's Mechanical Engineer's Handbook, McGraw-Hill Book Co., Inc., New York, Sixth Edition (1958).	