

Types of Soil and their Impact on Home Foundations



Sandy Soil



Clay Soil



Loam Soil



Peat Soil



Rock Soil



COMPOSITION

Large particles

Tiny particles

Balanced mix of sand, silt, and clay

Organic matter and vegetation

Bedrock

PROPERTIES

Does not retain water, offers quick drainage

Has a tendency to expand and contract

Stable and does not shift

Retains larger amount of water

Good bearing capacity, very stable

HOW IT AFFECTS FOUNDATIONS

Maintains stability and effectively prevents waterlogging and structural damage due to moisture.

The expansion and contraction cycle can challenge structural integrity, requiring advanced planning.

Provides the perfect balance for robust support, making it the preferred choice for stable foundations.

Has high risk of damage and should be treated to build a secure and stable foundation.

Ensures unmatched strength and longevity for foundation work, ideal for secure construction.

Soils In Construction

George M. Reeves, Ian Sims, J. C. Cripps

Soils In Construction:

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