



FOUNDATION SITE & SOIL

FOUNDATION CONSTRUCTION REQUIREMENTS (Based on IRC 4101.2)

- Foundation construction must be capable of accommodating all loads and of transmitting the resulting loads to the supporting soil.
- Fit soils that support footings and foundations must be designed, installed and tested.

DRAINAGE (Based on IRC 4101.3)

- Surface drainage must be directed to a storm sewer conveyance or other approved point of collection that does not create a hazard.
- Lots must be graded to drain surface water away from foundation walls.
- Grades must fall a min. of 2" within the first 10 ft.

SOIL TESTS (Based on IRC 4101.4)

- Where quantifiable data include expansive soils, compressible soils, settling soils or other questionable soil characteristics, the building official must determine whether to require a soil test.
- In lieu of a complete geotechnical evaluation, assume the values in Table A401.4.1.

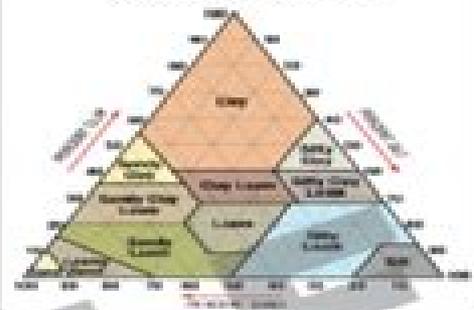
FOUNDATION ELEVATION (Based on IRC 4101.5)

- Original elev. the top of any exterior foundation must extend above the structure of the street gutter at point of discharge or the point of an approved drainage device a min. of 2" plus 2%.
- Alternate elevations are permitted subject to the approval of the building official, provided that it can be demonstrated that required drainage to the point of discharge and away from the structure is provided at all locations on the site.

FOUNDATION TYPES

- Applicable to all foundation types.**
- All 3 foundation types rely on perimeter foundation.
 - Grade is the finished ground level adjoining the footing at all exterior walls.
- Slab on Grade Foundations**
- Used mostly in warm climates, where footing is close to the ground and the frost line is close to the surface.
 - In this system the footing is shallow and the ground floor is a concrete slab.
 - Many slab-on-grade systems allow the concrete footing foundation and subfloor to be poured at the same time.
- Crawl Space**
- Crawl Space an under floor space that is not a basement.
 - Found in all climates but predominantly in temperate regions.
 - In this system, the insulated wooden ground floor is supported above grade on a foundation wall made of concrete or concrete block.
- Basements**
- Basement a story that is not a story above grade plane.
 - Used in the coldest part of the country, where frost lines mandate deep footings.
 - Foundation systems are usually constructed of concrete or concrete block (masonry walls).
 - Drainage and waterproofing are used in basement systems.

SOIL CLASSIFICATIONS



PRESUMPTIVE LOAD-BEARING VALUES OF FOUNDATION MATERIALS (Based on IRC Table A401.4.1)

Class of Material	Load-Bearing Pressure (psf)
Crushed concrete	3,000
Crushed concrete used in concrete walls	4,000
Loose gravel (3/4" to 2" and 2 1/2" and 3")	1,000
Sand, silty sand, clayey sand, silty sand and clayey gravel (SM, SP, SM, SC, SM and SC)	2,000
Clay, sandy, silty clay, clayey sil, silt and sandy silty clay (CL, ML, MH and CH)	1,000*

- When columns are loaded by Section 4101.4, the allowable bearing capacities of the soil must be part of the design criteria.
- When the building official determines that columns will have an allowable bearing capacity of less than 1,000 psf or less than 1/3 of the allowable bearing capacity must be determined by a soil investigation.

SOIL DESCRIPTIONS (Based on IRC Table A401.4.1)

Soil	Description
Cohesionless Soils	Soils that exhibit minimum cohesion in representative samples at full water content.
Compressible Soils	Soils that exhibit volumetric expansion or contraction for the upper 48" of soil used in the foundation of a building or structure.
Expansive Soils	Soils that exhibit volumetric increase or decrease (swelling or shrinking) in response to wetting or full wetting or drying under load.

PROPERTIES OF SOILS - UNITED SOIL CLASSIFICATION SYSTEM (Based on IRC Table A401.4.1)

Soil Group	System Symbol	Soil Description	Drainage Characteristics	Root Retention Potential	Volume Change Potential (Expansion)
Group 1	GM	Well-graded gravel, gravel sand mixtures, little or no fines	Good	Low	Low
	GP	Poorly graded gravel or gravel sand mixtures, little or no fines	Good	Low	Low
	SM	Well-graded sands, gravelly sands, little or no fines	Good	Low	Low
	SP	Poorly graded sands or gravelly sands, little or no fines	Good	Low	Low
	GM	Silty gravels, gravel-sand-clay mixtures	Good	Medium	Low
	SM	Silty sand, sand-silt mixtures	Good	Medium	Low
Group 2	GC	Clayey gravels, gravel-sand-clay mixtures	Medium	Medium	Low
	SC	Clayey sands, sand-clay mixtures	Medium	Medium	Low
	ML	Impervious silts and very fine sands, silt-sand, silty sand, silty or clayey fine sands or clayey silts with slight plasticity	Medium	High	Low
Group 3	CL	Impervious clays of low to medium plasticity, generally clayey, sandy clay, silty clay, lean clay	Medium	Medium	Medium to Low
	CH	Impervious clays of high plasticity, fat clays	Poor	Medium	High
Group 4	SM	Impervious silts, silty sands or silty sands, fine sandy or silty silt, elastic silt	Poor	High	High
	OL	Organic silts and organic silty clays of low plasticity	Poor	Medium	Medium
Group 5	OM	Organic clays of medium to high plasticity, organic silt	unsatisfactory	Medium	High
	PT	Peat and other highly organic soils	unsatisfactory	Medium	High

1. The permeability rate for group 1 clays is less than 10⁻⁶ per foot, for group 2 clays is 10⁻⁶ to 10⁻⁷ per foot and for group 3 clays is 10⁻⁷ per foot or less. For group 4 soils with a low plasticity (medium to high plasticity) (ML or CL), soils with a medium plasticity (expansion) (ML or CH) or CL and soils with a high plasticity (expansion) (low to high) (CH) greater than 20.

SOIL TYPES (Based on IRC)

Type	Characteristics	Examples
Type A	cohesive soils with an unconfined compressive strength of 1.5 tons per square foot (tsf) or greater.	dry, silty clay, sandy clay, clay loam
		clayey clay loam and sandy clay loam
Type B	cohesive soils with an unconfined compressive strength greater than 0.5 tsf but less than 1.5 tsf.	organic gravel, silt, silt loam, poorly distributed soils unless otherwise classified as Type C
		soils that meet the unconfined compressive strength or penetration requirements of Type A soils but are flawed or subject to alteration.
Type C	cohesive soils with an unconfined compressive strength of 0.5 tsf or less.	dry, unstable soil, layered systems (clayey, silty) that are at a slope less than 4:1 to 1:1 if the material would be classified as a Type B soil.
		granular soils such as gravel, sand and sandy sand, well-graded soil, well fines which water is freely seeping and is a stronger soil that is not stable.
Type D	cohesive soils with an unconfined compressive strength of 0.5 tsf or less.	material in a steep, layered system where the layers dip into the excavation or have a slope of four horizontal to one vertical (4H:1V) or greater.

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