

780 CMR: STATE BOARD OF BUILDING REGULATIONS AND STANDARDS

TABLE X-1 TYPICAL RANGE OF INDEX PROPERTIES (continued)

3	Sedimentary bedrock- cementation shale, silt-stone, sand-stone, limestone, dolomite, conglomerate	Soft rock, moderate jointing	>50	>2000	
4	Weakly cemented sedimentary bedrock - compaction shale or other similar rock in sound condition	Very soft rock	<50	-	-
5	Weathered bedrock - any of the above except shale	Very soft rock weathered and/or major jointing and fracturing	<50	-	-
6	Slightly cemented sand and/or gravel, glacial till (basal or lodgement), haropan	Very dense	-	-	>50
7	Gravel, widely graded sand and gravel, and granular ablation till	Very dense Dense Medium dense Loose Very loose	-	-	>50 41-50 16-40 8-15 <8
8	Sands and non-plastic silty sands with little or no gravel (except for Class 9 materials)	Dense Medium dense Loose Very loose	-	-	>30 11-30 6-10 <6
9	Fine sand, silty sand and nonplastic inorganic silt	Dense Medium dense loose Very loose	-	-	>30 11-20 6-10 <6
10	Inorganic sandy or silty clay, clayey sand, clayey silt, clay or varved clay low to high plasticity	Hard Stiff Medium Soft	-	-	>20 9-20 4-8 <4
11	Organic soils - peat organic silts, organic clay	-	-	-	-

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- NOTE 1: For discussion of RQD values see Deere, D.U., Rock Mechanics in Engineering Practice (Chapter 1), Stagg and Zinkiewicz, Eds., 1968, John Wiley and Sons, Inc.
- NOTE 2: For determination of Unconfined Compressive Strength see ASTM D2938
- NOTE 3: For determination of Standard Penetration Resistance N-value see ASTM D1586. The presence of large particles (coarse gravel, cobbles, boulders) may cause N-values to be unrealistically high. Such values should not be used. Also standard penetration resistance should not be used for depths less than five (5) feet.

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