TABLE 47-R *(Concluded)*

Substance	*Specific gravity*	*Avg density lb per cu ft*
Rubble Masonry		
Limestone	2 0–2 7	147
Sandstone	1 9–2 5	137
Bluestone	2 2–2 5	147
Marble	2 3–2 7	156
Dry Rubble Masonry		
Granite syenite gneiss	1 9–2 3	130
Limestone marble	1 9–2 1	125
Sandstone bluestone	1 8–1 9	110
Brick Masonry		
Hard brick	1 8–2 3	128
Medium brick	1 6–2 0	112
Soft brick	1 4–1 9	103
Sand-lime brick	1 4–2 2	112
Concrete Masonry		
Cement stone sand	2 2–2 4	144
Cement slag etc	1 9–2 3	130
Cement cinder etc	1 5–1 7	100
Various Building Mat ls		
Ashes cinders	0 64–0 72	40–45
Cement portland loose	1 5	94
Portland cement	3 1–3 2	196
Lime gypsum loose	0 85–1 00	53–64
Mortar lime set	1 4–1 9	103
		94
Mortar portland cement	2 08–2 25	135
Slags bank slag	1 1–1 2	67–72
Slags bank screenings	1 5–1 9	98–117
Slags machine slag	1 5	96
Slags slag sand	0 8–0 9	49–55
Earth etc Excavated		
Clay dry	1 0	63
Clay damp plastic	1 76	110
Clay and gravel dry	1 6	100
Earth dry loose	1 2	76
Earth dry packed	1 5	95
Earth moist loose	1 3	78
Earth moist packed	1 6	96
Earth mud flowing	1 7	108
Earth mud packed	1 8	115
Riprap limestone	1 3–1 4	80–85
Riprap sandstone	1 4	90
Riprap shale	1 7	105
Sand gravel dry loose	1 4–1 7	90–105
Sand gravel dry packed	1 6–1 9	100–120
Sand gravel wet	1 89–2 16	126
Excavations in Water		
Sand or gravel	0 96	60
Sand or gravel and clay	1 00	65
Clay	1 28	80
River mud	1 44	90
Soil	1 12	70
Stone riprap	1 00	65

Substance	*Specific gravity*	*Avg density lb per cu ft*
Minerals		
Asbestos	2 1–2 8	153
Barytes	4 50	281
Basalt	2 7–3 2	184
Bauxite	2 55	159
Bluestone	2 5–2 6	159
Borax	1 7–1 8	109
Chalk	1 8–2 8	143
Clay marl	1 8–2 6	137
Dolomite	2 9	181
Feldspar orthoclase	2 5–2 7	162
Gneiss	2 7–2 9	175
Granite	2 6–2 7	165
Greenstone trap	2 8–3 2	187
Gypsum alabaster	2 3–2 8	159
Hornblende	3 0	187
Limestone	2 1–2 86	155
Marble	2 6–2 86	170
Magnesite	3 0	187
Phosphate rock apatite	3 2	200
Porphyry	2 6–2 9	172
Pumice natural	0 37–0 90	40
Quartz flint	2 5–2 8	165
Sandstone	2 0–2 6	143
Serpentine	2 7–2 8	171
Shale slate	2 6–2 9	172
Soapstone talc	2 6–2 8	169
Syenite	2 6–2 7	165
Stone Quarried Piled		
Basalt granite gneiss	1 5	96
Limestone marble quartz	1 5	95
Sandstone	1 3	82
Shale	1 5	92
Greenstone hornblende	1 7	107
Bituminous Substances		
Asphaltum	1 1–1 5	81
Coal anthracite	1 4–1 8	97
Coal bituminous	1 2–1 5	84
Coal lignite	1 1–1 4	78
Coal peat turf dry	0 65–0 85	47
Coal charcoal pine	0 28–0 44	23
Coal charcoal oak	0 47–0 57	33
Coal coke	1 0–1 4	75
Graphite	1 64–2 7	135
Paraffin	0 87–0 91	56
Petroleum	0 87	54
Petroleum refined (kerosene)	0 78–0 82	50
Petroleum benzene	0 73–0 75	46
Petroleum gasoline	0 70–0 75	45
Pitch	1 07–1 15	69
Tar bituminous	1 20	75
Coal and Coke Piled		
Coal anthracite	0 75–0 93	47–58
Coal bituminous lignite	0 64–0 87	40–54
Coal peat turf	0 32–0 42	20–26
Coal charcoal	0 16–0 23	10–14
Coal coke	0 37–0 51	23–32

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