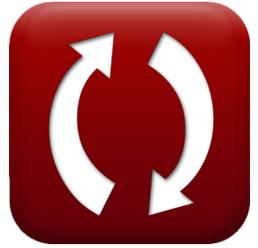




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List of 45 Compaction of Soil Formulas

Compaction of Soil

Compaction Equipment

1) Compaction Production by Compaction Equipment

$$fx \quad y = \frac{16 \cdot W \cdot S \cdot L \cdot E \cdot PR}{P}$$

Open Calculator 

$$ex \quad 297.5995m^3/hr = \frac{16 \cdot 2.89m \cdot 3.0km/h \cdot 7.175mm \cdot 0.50 \cdot 2.99m^3}{5}$$

2) Compaction Production by Compaction Equipment when Efficiency Factor is Average

$$fx \quad y_a = \frac{16 \cdot W \cdot S \cdot L \cdot PR \cdot 0.80}{P}$$

Open Calculator 

$$ex \quad 476.1592m^3/hr = \frac{16 \cdot 2.89m \cdot 3.0km/h \cdot 7.175mm \cdot 2.99m^3 \cdot 0.80}{5}$$



3) Compaction Production by Compaction Equipment when Efficiency Factor is Excellent

$$fx \quad y_{ex} = \frac{16 \cdot W \cdot S \cdot L \cdot PR \cdot 0.90}{P}$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)

$$ex \quad 535.6791m^3/hr = \frac{16 \cdot 2.89m \cdot 3.0km/h \cdot 7.175mm \cdot 2.99m^3 \cdot 0.90}{5}$$

4) Compaction Production by Compaction Equipment when Efficiency Factor is Poor

$$fx \quad y_p = \frac{16 \cdot W \cdot S \cdot L \cdot PR \cdot 0.75}{P}$$

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

$$ex \quad 446.3992m^3/hr = \frac{16 \cdot 2.89m \cdot 3.0km/h \cdot 7.175mm \cdot 2.99m^3 \cdot 0.75}{5}$$

5) Efficiency Factor using Compaction Production by Compaction Equipment

$$fx \quad E = \frac{y \cdot P}{16 \cdot W \cdot S \cdot L \cdot PR}$$

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)

$$ex \quad 0.499984 = \frac{297.59m^3/hr \cdot 5}{16 \cdot 2.89m \cdot 3.0km/h \cdot 7.175mm \cdot 2.99m^3}$$



6) Number of Passes given Compaction Production by Compaction Equipment

$$fx \quad P = \frac{16 \cdot W \cdot S \cdot E \cdot L \cdot PR}{y}$$

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95_img.jpg\)](#)

$$ex \quad 5.000159 = \frac{16 \cdot 2.89m \cdot 3.0km/h \cdot 0.50 \cdot 7.175mm \cdot 2.99m^3}{297.59m^3/hr}$$

7) Ratio of Pay to Loose using Compaction Production by Compaction Equipment

$$fx \quad PR = \frac{y \cdot P}{16 \cdot W \cdot S \cdot L \cdot E}$$

[Open Calculator !\[\]\(05be7c7a8995decd503647c99211f7c2_img.jpg\)](#)

$$ex \quad 2.989905m^3 = \frac{297.59m^3/hr \cdot 5}{16 \cdot 2.89m \cdot 3.0km/h \cdot 7.175mm \cdot 0.50}$$

8) Speed of Roller given Compaction Production by Compaction Equipment

$$fx \quad S = \frac{y \cdot P}{16 \cdot W \cdot L \cdot PR \cdot E}$$

[Open Calculator !\[\]\(fe3aebe81acea8d45108cd2768939da7_img.jpg\)](#)

$$ex \quad 2.999904km/h = \frac{297.59m^3/hr \cdot 5}{16 \cdot 2.89m \cdot 7.175mm \cdot 2.99m^3 \cdot 0.50}$$



9) Thickness of Lift given Compaction Production by Compaction Equipment

$$fx \quad L = \frac{y \cdot P}{16 \cdot W \cdot S \cdot E \cdot PR}$$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a_img.jpg\)](#)

$$ex \quad 7.174771\text{mm} = \frac{297.59\text{m}^3/\text{hr} \cdot 5}{16 \cdot 2.89\text{m} \cdot 3.0\text{km}/\text{h} \cdot 0.50 \cdot 2.99\text{m}^3}$$

10) Width of Roller given Compaction Production by Compaction Equipment

$$fx \quad W = \frac{y \cdot P}{16 \cdot S \cdot L \cdot PR \cdot E}$$

[Open Calculator !\[\]\(0b5e7e25e8775f7e7e80906ada4f0021_img.jpg\)](#)

$$ex \quad 2.889908\text{m} = \frac{297.59\text{m}^3/\text{hr} \cdot 5}{16 \cdot 3.0\text{km}/\text{h} \cdot 7.175\text{mm} \cdot 2.99\text{m}^3 \cdot 0.50}$$

Relative Compaction

11) Density Compaction

$$fx \quad DCR = \frac{\gamma_{dmin}}{\gamma_{dmax}}$$

[Open Calculator !\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3_img.jpg\)](#)

$$ex \quad 0.802521 = \frac{3.82\text{kg}/\text{m}^3}{4.76\text{kg}/\text{m}^3}$$



12) Density Compaction given Relative Compaction in Relative Density

$$\text{fx } DCR = R_c \cdot \frac{1 - RD}{1 - (R_c \cdot RD)}$$

[Open Calculator !\[\]\(d3fb9f94af8b26d1c844efa9a98805b0_img.jpg\)](#)

$$\text{ex } 0.8 = 2.5 \cdot \frac{1 - 3.4}{1 - (2.5 \cdot 3.4)}$$

13) Dry Density given Relative Compaction in Density

$$\text{fx } \rho_d = R_c \cdot \gamma_{dmax}$$

[Open Calculator !\[\]\(e1d6102fe77919492c04879c8450f1f5_img.jpg\)](#)

$$\text{ex } 11.9\text{kg/m}^3 = 2.5 \cdot 4.76\text{kg/m}^3$$

14) Maximum Dry Density given Density Compaction

$$\text{fx } \gamma_{dmax} = \frac{\gamma_{dmin}}{DCR}$$

[Open Calculator !\[\]\(ab4e2b3fc7e7887b7a72f548aa6f5e60_img.jpg\)](#)

$$\text{ex } 4.775\text{kg/m}^3 = \frac{3.82\text{kg/m}^3}{0.8}$$

15) Maximum Dry Density given Relative Compaction

$$\text{fx } \gamma_{dmax} = \frac{\rho_d}{R_c}$$

[Open Calculator !\[\]\(5abce1a84a655b073239ab33e1199487_img.jpg\)](#)

$$\text{ex } 4\text{kg/m}^3 = \frac{10\text{kg/m}^3}{2.5}$$



16) Minimum Dry Density given Density Compaction

$$fx \quad \gamma_{dmin} = DCR \cdot \gamma_{dmax}$$

[Open Calculator !\[\]\(9dfdaff1d86ba3c1f8353b4d1b61b8c5_img.jpg\)](#)

$$ex \quad 3.808 \text{kg/m}^3 = 0.8 \cdot 4.76 \text{kg/m}^3$$

17) Minimum Void Ratio given Relative Compaction in Void Ratio

$$fx \quad e_{min} = (R_c \cdot (1 + e)) - 1$$

[Open Calculator !\[\]\(2b376d1a92330ab09dad2665d2f89bf5_img.jpg\)](#)

$$ex \quad 4.5 = (2.5 \cdot (1 + 1.2)) - 1$$

18) Relative Compaction given Density

$$fx \quad R_c = \frac{\rho_d}{\gamma_{dmax}}$$

[Open Calculator !\[\]\(c444627dab9fee9a1550c053ffaaaae2_img.jpg\)](#)

$$ex \quad 2.10084 = \frac{10 \text{kg/m}^3}{4.76 \text{kg/m}^3}$$

19) Relative Compaction given Relative Density

$$fx \quad R_c = \frac{DCR}{1 - RD \cdot (1 - R_o)}$$

[Open Calculator !\[\]\(06a315363e7801bba8c7489a6694af19_img.jpg\)](#)

$$ex \quad 0.071429 = \frac{0.8}{1 - 3.4 \cdot (1 - 4)}$$



20) Relative Compaction given Void Ratio

[Open Calculator !\[\]\(3d8c13c92b853674f749aac6fa869926_img.jpg\)](#)

$$\text{fx } R_c = \frac{1 + e_{\min}}{1 + e}$$

$$\text{ex } 2.5 = \frac{1 + 4.5}{1 + 1.2}$$

21) Relative Density given Relative Compaction

[Open Calculator !\[\]\(17acf1afa8cdf0b67c53d4865a5ed469_img.jpg\)](#)

$$\text{fx } RD = \frac{DCR - R_c}{R_c \cdot (DCR - 1)}$$

$$\text{ex } 3.4 = \frac{0.8 - 2.5}{2.5 \cdot (0.8 - 1)}$$

Soil Compaction Test

22) California Bearing Ratio for Strength of Soil that Underlies Pavement


[Open Calculator !\[\]\(e9474ce1d70442456f8fe9c393ea149c_img.jpg\)](#)

$$\text{fx } CBR = \left(\frac{F}{F_s} \right)$$

$$\text{ex } 0.5 = \left(\frac{3\text{N/m}^2}{6\text{N/m}^2} \right)$$



23) Coefficient of Permeability given Rate of Flow of Water

[Open Calculator !\[\]\(5ebcf382a6ee952d6c5b8b948415801e_img.jpg\)](#)

$$fx \quad k = \left(\frac{Q_{\text{flow}}}{i \cdot A_{\text{CS}}} \right)$$

$$ex \quad 0.918485\text{m/s} = \left(\frac{24\text{m}^3/\text{s}}{2.01 \cdot 13\text{m}^2} \right)$$

24) Cross-Sectional Area of Soil Conveying Flow given Rate of Flow of Water

[Open Calculator !\[\]\(a69696d69cfd88b51cbd02e5288eca32_img.jpg\)](#)

$$fx \quad A_{\text{CS}} = \left(\frac{Q_{\text{flow}}}{k \cdot i} \right)$$

$$ex \quad 12.06091\text{m}^2 = \left(\frac{24\text{m}^3/\text{s}}{0.99\text{m/s} \cdot 2.01} \right)$$

25) Density of Sand given Volume of Soil for Sand Filling in Sand Cone Method

[Open Calculator !\[\]\(ac7494f141109b59d18bf9c3aeb84d93_img.jpg\)](#)

$$fx \quad \rho = \left(\frac{W_t}{V} \right)$$

$$ex \quad 4\text{kg/m}^3 = \left(\frac{80\text{kg}}{20\text{m}^3} \right)$$



26) Dry Density of Soil given Percent Compaction of Soil in Sand Cone Method

$$\text{fx } \rho_{\text{dsc}} = \frac{C \cdot \gamma_{\text{dmax}}}{100}$$

[Open Calculator !\[\]\(8b57f0e15e7dda24cf9977561475f640_img.jpg\)](#)

$$\text{ex } 4.284\text{kg/m}^3 = \frac{90 \cdot 4.76\text{kg/m}^3}{100}$$

27) Dry Density of Soil in Sand Cone Method

$$\text{fx } \rho_{\text{d}} = \left(\frac{\gamma_{\text{t}}}{1 + \left(\frac{M}{100} \right)} \right)$$

[Open Calculator !\[\]\(ceb7cef9f9d693d102dfe501130037c6_img.jpg\)](#)

$$\text{ex } 11.99556\text{kg/m}^3 = \left(\frac{12\text{kg/m}^3}{1 + \left(\frac{0.037}{100} \right)} \right)$$

28) Field Density in Sand Cone Method

$$\text{fx } \rho_{\text{fd}} = \left(\frac{W_{\text{t}}}{V} \right)$$

[Open Calculator !\[\]\(5a09a9dfd2f1e923eccb8c24714edf51_img.jpg\)](#)

$$\text{ex } 4\text{kg/m}^3 = \left(\frac{80\text{kg}}{20\text{m}^3} \right)$$



29) Field Density of Soil given Dry Density of Soil in Sand Cone Method

$$fx \quad \gamma_t = \left(\rho_d \cdot \left(1 + \left(\frac{M}{100} \right) \right) \right)$$

[Open Calculator !\[\]\(f4349ea867b307dd2675269f68d0971f_img.jpg\)](#)

$$ex \quad 10.0037 \text{kg/m}^3 = \left(10 \text{kg/m}^3 \cdot \left(1 + \left(\frac{0.037}{100} \right) \right) \right)$$

30) Force per Unit Area Required for Penetration of Standard Material

$$fx \quad F_s = \left(\frac{F}{\text{CBR}} \right)$$

[Open Calculator !\[\]\(4d25d87d94191bbe34f0046ad604e903_img.jpg\)](#)

$$ex \quad 6.382979 \text{N/m}^2 = \left(\frac{3 \text{N/m}^2}{0.47} \right)$$

31) Force per Unit Area Required to Penetrate Soil Mass with Circular Piston

$$fx \quad F = \text{CBR} \cdot F_s$$

[Open Calculator !\[\]\(7453c0f29ed3a7dcecf77fe714fbbf84_img.jpg\)](#)

$$ex \quad 2.82 \text{N/m}^2 = 0.47 \cdot 6 \text{N/m}^2$$

32) Hydraulic Gradient given Rate of Flow of Water

$$fx \quad i = \left(\frac{q_{\text{flow}}}{k \cdot A_{\text{cs}}} \right)$$

[Open Calculator !\[\]\(758fecfcf97b15b743a123b5de83ec46_img.jpg\)](#)

$$ex \quad 1.864802 = \left(\frac{24 \text{m}^3/\text{s}}{0.99 \text{m/s} \cdot 13 \text{m}^2} \right)$$



33) Maximum Dry Density given Percent Compaction of Soil in Sand Cone Method

$$\text{fx } \gamma_{d\max} = (\rho_{dsc}) \cdot \frac{100}{C}$$

[Open Calculator !\[\]\(65669ef2a9341eca7c5ba6092e766555_img.jpg\)](#)

$$\text{ex } 4.76\text{kg/m}^3 = (4.284\text{kg/m}^3) \cdot \frac{100}{90}$$

34) Percent Compaction of Soil in Sand Cone Method

$$\text{fx } C = \frac{100 \cdot \rho_{dsc}}{\gamma_{d\max}}$$

[Open Calculator !\[\]\(eaac180de418db4eae4b4cefebda75e8_img.jpg\)](#)

$$\text{ex } 90 = \frac{100 \cdot 4.284\text{kg/m}^3}{4.76\text{kg/m}^3}$$

35) Percent Moisture Content given Dry Density of Soil in Sand Cone Method

$$\text{fx } M_{sc} = 100 \cdot \left(\left(\frac{\gamma_t}{\rho_{dsc}} \right) - 1 \right)$$

[Open Calculator !\[\]\(43fda5baa5446493352974e4b4060607_img.jpg\)](#)

$$\text{ex } 180.112 = 100 \cdot \left(\left(\frac{12\text{kg/m}^3}{4.284\text{kg/m}^3} \right) - 1 \right)$$



36) Percent Moisture in Sand Cone Method

$$fx \quad M_{sc} = \frac{100 \cdot (W_m - W_d)}{W_d}$$

[Open Calculator !\[\]\(b3131996c2d47980618867ba93d92313_img.jpg\)](#)

$$ex \quad 100 = \frac{100 \cdot (10.0\text{kg} - 5.0\text{kg})}{5.0\text{kg}}$$

37) Rate of Flow of Water through Saturated Soil by Darcy's Law

$$fx \quad q_{\text{flow}} = (k \cdot i \cdot A_{cs})$$

[Open Calculator !\[\]\(99af31d6d7b9b738106c66bf7ffde536_img.jpg\)](#)

$$ex \quad 25.8687\text{m}^3/\text{s} = (0.99\text{m/s} \cdot 2.01 \cdot 13\text{m}^2)$$

38) Settlement of Plate in Load Bearing Test

$$fx \quad \rho^1 = \Delta \cdot \left(\frac{1 + B}{2 \cdot B} \right)^2$$

[Open Calculator !\[\]\(51c8b64a0f70f0b96d4cbd0a65299579_img.jpg\)](#)

$$ex \quad 0.0027\text{m} = 4.8\text{mm} \cdot \left(\frac{1 + 2000\text{mm}}{2 \cdot 2000\text{mm}} \right)^2$$

39) Volume of Soil for Sand Filling in Sand Cone Method

$$fx \quad V = \left(\frac{W_t}{\rho} \right)$$

[Open Calculator !\[\]\(9fb35ce00785e0d1c8f42da5044e6593_img.jpg\)](#)

$$ex \quad 17.13062\text{m}^3 = \left(\frac{80\text{kg}}{4.67\text{kg}/\text{m}^3} \right)$$



40) Volume of Soil given Field Density in Sand Cone Method 

$$fx \quad V = \left(\frac{W_t}{\rho_{fd}} \right)$$

[Open Calculator !\[\]\(2020723f97c3fe13d8ecf52b30807736_img.jpg\)](#)

$$ex \quad 20m^3 = \left(\frac{80kg}{4.0kg/m^3} \right)$$

41) Weight of Dry Soil given Percent Moisture in Sand Cone Method 

$$fx \quad W_d = \frac{100 \cdot W_m}{M_{sc} + 100}$$

[Open Calculator !\[\]\(2becda4813f27b5edb43f5299d7596ac_img.jpg\)](#)

$$ex \quad 4kg = \frac{100 \cdot 10.0kg}{150 + 100}$$

42) Weight of Moist Soil given Percent Moisture in Sand Cone Method 

$$fx \quad W_m = \left(\left(M_{sc} \cdot \frac{W_d}{100} \right) + W_d \right)$$

[Open Calculator !\[\]\(d3b4f22af99c507f55d7924c8d6d7349_img.jpg\)](#)

$$ex \quad 12.5kg = \left(\left(150 \cdot \frac{5.0kg}{100} \right) + 5.0kg \right)$$

43) Weight of Sand Filling Hole in Sand Cone Method 

$$fx \quad W_t = (V \cdot \rho)$$

[Open Calculator !\[\]\(ae9ba1fb84fedddf9e0c13562fe7d84c_img.jpg\)](#)

$$ex \quad 93.4kg = (20m^3 \cdot 4.67kg/m^3)$$



44) Weight of Soil in Sand Cone Method 

$$fx \quad W_t = (\rho_{fd} \cdot V)$$

[Open Calculator !\[\]\(e5d4c1253f90f386527cfb2278e2ccef_img.jpg\)](#)

$$ex \quad 80kg = (4.0kg/m^3 \cdot 20m^3)$$

45) Width of Full Size Bearing Plate in Load Bearing Test 

$$fx \quad B = \left(\frac{1}{2 \cdot \sqrt{\frac{p^1}{\Delta} - 1}} \right)$$

[Open Calculator !\[\]\(9cc80862e225935f5e2ce39495f8c582_img.jpg\)](#)

$$ex \quad 2000mm = \left(\frac{1}{2 \cdot \sqrt{\frac{0.0027m}{4.8mm} - 1}} \right)$$



Variables Used

- **A_{CS}** Cross Sectional Area in Permeability (*Square Meter*)
- **B** Width of Full Size Bearing Plate (*Millimeter*)
- **C** Percent Compaction
- **CBR** California Bearing Ratio
- **DCR** Density Compaction Ratio
- **e** Void Ratio
- **E** Efficiency Factor
- **e_{min}** Minimum Void Ratio
- **F** Force per Unit Area (*Newton per Square Meter*)
- **F_S** Force Per Unit Area Standard (*Newton per Square Meter*)
- **i** Hydraulic Gradient in Soil
- **k** Coefficient of Permeability (*Meter per Second*)
- **L** Lift Thickness (*Millimeter*)
- **M** Percent Moisture
- **M_{SC}** Percent Moisture from Sand Cone Test
- **P** Number of Passes
- **PR** Pay Ratio (*Cubic Meter*)
- **q_{flow}** Rate of Flow of Water through Soil (*Cubic Meter per Second*)
- **R_C** Relative Compaction
- **R_O** Density Compaction
- **RD** Relative Density
- **S** Roller Speed (*Kilometer per Hour*)
- **V** Volume of Soil (*Cubic Meter*)



- **W** Width of Roller (Meter)
- **W_d** Weight of Dry Soil (Kilogram)
- **W_m** Weight of Moist Soil (Kilogram)
- **W_t** Weight of Total Soil (Kilogram)
- **y** Production due to Compaction (Cubic Meter per Hour)
- **y_a** Compaction Production (Effi. Factor is Average) (Cubic Meter per Hour)
- **y_{ex}** Compaction Production (Effi. Factor is Excellent) (Cubic Meter per Hour)
- **y_p** Compaction Production (Effi. Factor is Poor) (Cubic Meter per Hour)
- **Y_{dmax}** Maximum Dry Density (Kilogram per Cubic Meter)
- **Y_{dmin}** Minimum Dry Density (Kilogram per Cubic Meter)
- **Y_t** Bulk Density of Soil (Kilogram per Cubic Meter)
- **Δ** Settlement Foundation (Millimeter)
- **ρ** Density of Sand (Kilogram per Cubic Meter)
- **ρ_d** Dry Density (Kilogram per Cubic Meter)
- **ρ_{dsc}** Dry Density from Sand Cone Test (Kilogram per Cubic Meter)
- **ρ_{fd}** Field Density from Sand Cone Test (Kilogram per Cubic Meter)
- **ρ¹** Settlement of Plate (Meter)



Constants, Functions, Measurements used

- **Function:** **sqrt**, sqrt(Number)
A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- **Measurement:** **Length** in Meter (m), Millimeter (mm)
Length Unit Conversion 
- **Measurement:** **Weight** in Kilogram (kg)
Weight Unit Conversion 
- **Measurement:** **Volume** in Cubic Meter (m^3)
Volume Unit Conversion 
- **Measurement:** **Area** in Square Meter (m^2)
Area Unit Conversion 
- **Measurement:** **Pressure** in Newton per Square Meter (N/m^2)
Pressure Unit Conversion 
- **Measurement:** **Speed** in Kilometer per Hour (km/h), Meter per Second (m/s)
Speed Unit Conversion 
- **Measurement:** **Volumetric Flow Rate** in Cubic Meter per Hour (m^3/hr), Cubic Meter per Second (m^3/s)
Volumetric Flow Rate Unit Conversion 
- **Measurement:** **Density** in Kilogram per Cubic Meter (kg/m^3)
Density Unit Conversion 



Check other formula lists

- [Bearing Capacity for Strip Footing for C- \$\Phi\$ Soils Formulas](#)
- [Bearing Capacity of Cohesive Soil Formulas](#)
- [Bearing Capacity of Non-cohesive Soil Formulas](#)
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