

Roller-Compacted Concrete Density: Principles and Practices

Introduction

One of the most common measurements used for quality control of earthfill placement is compacted density. The use of density testing for the control of fill placement and as a key indicator that material placed will meet specified parameters has broad application and a history of more than 50 years.

A key to design and construction using RCC is the application of testing procedures for both laboratory and field density that is representative of in-place conditions. Several test methods developed over the last 20 years are described in this publication. Also included is information on soil mechanics and concrete methodology aspects of RCC as well as a discussion on various standard compaction methods.

Soil Mechanics

Basic Properties. In soil mechanics practice, the density of a soil is defined as the weight per unit volume. The typical composition of a soil, subdivided into the three basic soil phases—solid, liquid (water), and gas (air)—is shown in Figure 1. Various relationships and engineering properties are derived from these soil phases, for example, density, unit weight, porosity, degree of saturation, specific gravity, and water content. Soil density is dependent on the relative volume of solid particles and void spaces. The relative amount of void

volume in a soil mass can be expressed in terms of void ratio, or porosity, where the void ratio is defined as the ratio of the volume of the voids (air and water) to the volume of the solids in the soil mass, and porosity is defined as ratio of the volume of voids to the total volume of the soil mass. Basic engineering properties in soil mechanics are commonly defined as follows:

V	=	total volume of soil mass
V_s	=	volume of solid particles
V_v	=	volume of void spaces (includes water and air voids)
V_a	=	volume of air voids
V_w	=	volume of water voids
W	=	total wet weight of soil mass
W_s	=	dry weight of solids
W_w	=	weight of water in soil mass
e	=	void ratio
n	=	porosity, in percent
A	=	percent air voids
γ	=	wet density (total unit weight of soil mass)
γ_d	=	dry unit weight or density
γ_w	=	unit weight of water
w	=	water or moisture content, in percent
S	=	degree of saturation
G_s	=	apparent specific gravity
G_{sat}	=	saturated surface dry specific gravity

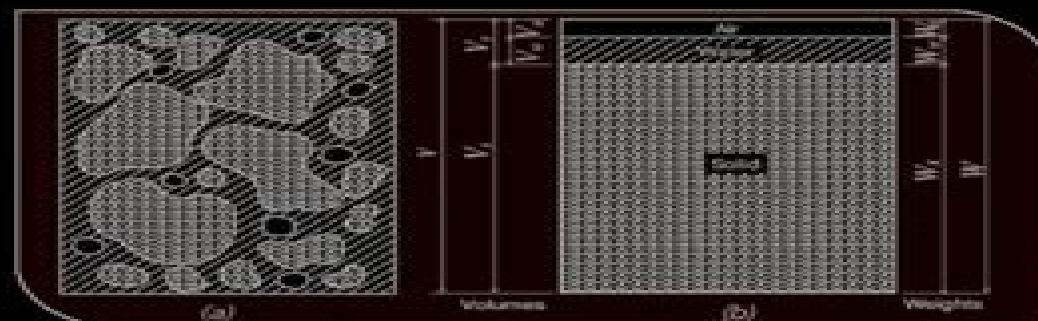


Figure 1. Relationship among soil phases:
a) Visualization of a soil mass
b) Elements separated into phases of the soil mass.

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