Determination of the cubature of RSS Flüssigboden® by field test

General information

The determination of the cubature in the field test is used in particular when dealing with complex soils. Here, the quality assurance commissioner of the producer prepares small quantities of liquid soil according to the mix design(s) at the mixing station. In close coordination with the quality assurance commissioner, the FiFB carries out mix design adjustments based on the determined characteristic values and extensive preliminary investigations. The basic requirements for successful results are well-prepared source material and homogeneity.

Caution: This type of mix design adjustment only works for soil mechanical parameters. This procedure should not be used when handling contaminated material.

Instructions

Basic principle: Accuracy in soil homogenisation, sample collection, weighing, analysis, and documentation of results is essential.

- 1. Soil homogenization (daily amount)
- Separate and homogenize the source soil according to its condition (if necessary according to specifications by adding up to 1% RSS PROVIACAL) using a separator.
- 2. Sample collection (representative!!!)
- take single samples at several points from the interior of the homogenized heap at different depths minimum 8000 g
 - mix these well
 - take 400 g from the mixed sample to determine the inherent moisture content
 - 7600 g for test mixture
- 3. Determination of inherent moisture content
- Execution according to information sheet "Inherent Moisture".
- 4. Soil classification (under field conditions)

Note: for a more precise soil identification, the "bodenkundliche Kartieranleitung" (German soil mapping instructions) [ggf. englische Entsprechung finden] are/is recommended.



- Optical estimation of the granular components? How high is the gravel content? Are sandy components noticeable when rubbing a sample in the hand?
- 4.2 Estimation of the cohesive components
- Take samples of the cohesive components from the initial soil, slightly moisten approx. 20-30 g (soil moisture)
 - knead well (kneading test)
 - if the material is crumbly after rolling it out between the palms of the hands to approx. 2 mm thick "rolls" ? classification as silt
 - if the material remains stuck together even after repeated kneading and rolling out and sticks in the grooves of the hands? classification as clay
 - further assessments by consultation with Mr. Detjens Tel. +49 (0)341-2446911 or Mobil +49 (0)170-3149761





RSS Flüssigboden® entspricht den Anforderungen des RAL-GZ 507

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