Unbound and hydraulically bound mixtures - Part 50: Method for the manufacture of test specimens of hydraulically bound mixtures using Proctor equipment or vibrating table compaction

Unbound and hydraulically bound mixtures - Part 50: Method for the manufacture of test specimens of hydraulically bound mixtures using Proctor equipment or vibrating table compaction



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13286-50:2005 sisaldab Euroopa standardi EN 13286-50:2004 ingliskeelset teksti.

Käesolev dokument on jõustatud 22.02.2005 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 13286-50:2005 consists of the English text of the European standard EN 13286-50:2004.

This document is endorsed on 22.02.2005 with the notification being published in the official publication of the Estonian national standardisation organisation.

The standard is available from Estonian standardisation organisation.

Käsitlusala:

This European Standard specifies the method for making cylindrical specimens to a predetermined density using proctor equipment or vibrating table compaction. The method is appropriate for mixtures, or that part of a mixture, containing aggregates up to a maximum size of 31,5 mm.

Scope:

This European Standard specifies the method for making cylindrical specimens to a predetermined density using proctor equipment or vibrating table compaction. The method is appropriate for mixtures, or that part of a mixture, containing aggregates up to a maximum size of 31,5 mm.

ICS 93.080.20

Võtmesõnad: density (mass/volume), density measurement, pavements, roads, sampling, sampling methods, specification (approval), specifications, specimen preparation, tables, test specimens, testing, testing conditions, unbound, vibrated density, vibration, vibration effects

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 13286-50

December 2004

ICS 93.080.20

English version

Unbound and hydraulically bound mixtures

Part 50: Method for the manufacture of test specimens of hydraulically bound mixtures using Proctor equipment or vibrating table compaction

Mélanges traités et mélanges non traités aux liants hydrauliques – Partie 50: Méthode de confection par compactage avec un appareillage Proctor ou une table vibrante des éprouvettes de matériaux traités au liants hydrauliques

Ungebundene und hydraulisch gebundene Gemische – Teil 50: Verfahren zur Herstellung von Probekörpern von hydraulisch gebundenen Gemischen durch Verdichtung mit Proctorgerät oder Vibrationstisch

This European Standard was approved by CEN on 2004-11-12.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

The European Standards exist in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, and the United Kingdom.

CEN

European Committee for Standardization Comité Européen de Normalisation Europäisches Komitee für Normung

Management Centre: rue de Stassart 36, B-1050 Brussels

Contents

ev	Nord	
	word	
	Scope	
	Normative references	
	Principle Dimensions of the specimens	
	Apparatus	
	Procedure	
	Storage	
	Test report	7 7
	One of the state o	

Foreword

This document (EN 13286-50:2004) has been prepared by Technical Committee CEN/TC 227 "Road materials", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

This document is one of a series of documents as listed below.

EN 13286-1, Unbound and hydraulically bound mixtures — Part 1: Test methods for laboratory reference density and water content — Introduction, general requirements and sampling

EN 13286-2, Unbound and hydraulically bound mixtures — Part 2: Test methods for the determination of the laboratory reference density and water content — Proctor compaction

EN 13286-3, Unbound and hydraulically bound mixtures — Part 3: Test methods for laboratory reference density and water content — Vibrocompression with controlled parameters

EN 13286-4, Unbound and hydraulically bound mixtures — Part 4: Test methods for laboratory reference density and water content — Vibrating hammer

EN 13286-5, Unbound and hydraulically bound mixtures — Part 5: Test methods for laboratory reference density and water content — Vibrating table

EN 13286-7, Unbound and hydraulically bound mixtures — Part 7: Cyclic load triaxial test for unbound mixtures

EN 13286-40, Unbound and hydraulically bound mixtures — Part 40: Test method for the determination of the direct tensile strength of hydraulically bound mixtures

EN 13286-41, Unbound and hydraulically bound mixtures — Part 41: Test method for the determination of the compressive strength of hydraulically bound mixtures

EN 13286-42, Unbound and hydraulically bound mixtures — Part 42: Test method for the determination of the indirect tensile strength of hydraulically bound mixtures

EN 13286-43, Unbound and hydraulically bound mixtures — Part 43: Test method for the determination of the modulus of elasticity of hydraulically bound mixtures

EN 13286-44, Unbound and hydraulically bound mixtures — Part 44: Test method for the determination of the alpha coefficient of vitrified blast furnace slag

EN 13286-45, Unbound and hydraulically bound mixtures — Part 45: Test method for the determination of the workability period of hydraulically bound mixtures

EN 13286-46, Unbound and hydraulically bound mixtures — Part 46: Test method for the determination of the moisture condition value

EN 13286-47, Unbound and hydraulically bound mixtures — Part 47: Test method for the determination of California bearing ratio, immediate bearing index and linear swelling

Page 4

EN 13286-50: 2004

prEN 13286-48, Unbound and hydraulically bound mixtures — Part 48: Test method for the determination of degree of pulverisation

EN 13286-49, Unbound and hydraulically bound mixtures — Part 49: Accelerated swelling test for soil treated by lime and/or hydraulic binder

EN 13286-50, Unbound and hydraulically bound mixtures — Part 50: Method for the manufacture of test specimens of hydraulically bound mixtures using Proctor equipment or vibrating table compaction

EN 13286-51, Unbound and hydraulically bound mixtures — Part 51: Method for the manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction

EN 13286-52, Unbound and hydraulically bound mixtures — Part 52: Method for the manufacture of test specimens of hydraulically bound mixtures using vibrocompression

EN 13286-53, Unbound and hydraulically bound mixtures — Part 53: Methods for the manufacture of test specimens of hydraulically bound mixtures using axial compression

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, ind, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

1 Scope

This document specifies a test method for making cylindrical specimens of hydraulically bound mixture to a predetermined density using Proctor equipment or vibrating table compaction. The method is appropriate for mixtures, or that part of a mixture, containing aggregate up to a maximum size of 31,5 mm.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13286-2:2004, Unbound and hydraulically bound mixtures — Part 2: Test methods for the determination of the laboratory reference density and water content — Proctor compaction

EN 13286-5, Unbound and hydraulically bound mixtures — Part 5: Test method for laboratory reference density and water content — Vibrating table

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13286-2:2004 and the following apply.

3.1

Proctor rammer or vibrating table compaction

method for making laboratory test specimens of hydraulically bound mixtures by compacting the mixture into a Proctor mould of known volume using either Proctor rammer compaction or high frequency vibration table until a predetermined density is achieved

4 Principle

Cylindrical test specimens of the mixture are prepared using Proctor moulds conforming to EN 13286-2. The mould is filled with the mixture in a specified manner and the mixture is compacted to a predetermined density by a Proctor rammer conforming to EN 13286-2 or by vibrating table conforming to EN 13286-5. After compaction, the specimens are stored, moulded or demoulded, at a specified temperature, moisture condition and period of time until required for testing.

5 Dimensions of the specimens

Specimens shall conform to the dimensions given in Table 1.