



**SLOVENSKI STANDARD**  
**SIST EN 933-3:1999/A1:2004**  
**01-april-2004**

---

DfYg\_i gj[ Yca Yf] b] \ "Ugfbcg] U[ fY[ Urcj '!' "XY. '8c`c Yj Ub^cV] \_Ynfb'!'AcXi`  
d`cy Urcg]

Tests for geometrical properties of aggregates - Part 3: Determination of particle shape - Flakiness index

Prüfverfahren für geometrische Eigenschaften von Gesteinskörnungen - Teil 3: Bestimmung der Kornform - Plattigkeitskennzahl

Essais pour déterminer les caractéristiques géométriques des granulats - Partie 3: Détermination de la forme des granulats - Coefficient d'aplatissement

<https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004>

**Ta slovenski standard je istoveten z: EN 933-3:1997/A1:2003**

---

**ICS:**

91.100.15 Mineralni materiali in izdelki Mineral materials and products

**SIST EN 933-3:1999/A1:2004 en**

**iTeh STANDARD PREVIEW**  
**(standards.iteh.ai)**

[SIST EN 933-3:1999/A1:2004](https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004)

<https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004>

EUROPEAN STANDARD

**EN 933-3:1997/A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2003

ICS 91.100.15

English version

**Tests for geometrical properties of aggregates - Part 3:  
Determination of particle shape - Flakiness index**

Essais pour déterminer les caractéristiques géométriques  
des granulats - Partie 3: Détermination de la forme des  
granulats - Coefficient d'aplatissement

Prüfverfahren für geometrische Eigenschaften von  
Gesteinskörnungen - Teil 3: Bestimmung der Kornform -  
Plattigkeitskennzahl

This amendment A1 modifies the European Standard EN 933-3:1997; it was approved by CEN on 1 August 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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.

This amendment exists 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 933-3:1999/A1:2004](https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004)

<https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004>



EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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

**EN 933-3:1997/A1:2003 (E)****Foreword**

This document (EN 933-3:1997/A1:2003) has been prepared by Technical Committee CEN/TC 154 "Aggregates", the secretariat of which is held by BSI.

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 March 2004, and conflicting national standards shall be withdrawn at the latest by March 2004.

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

**iTeh STANDARD PREVIEW  
(standards.iteh.ai)**

SIST EN 933-3:1999/A1:2004

<https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004>

## Foreword

In the 2<sup>nd</sup> paragraph, last line replace "July 1997" by "June 2004".

In the list of standards following the 3<sup>rd</sup> paragraph:

Replace "prEN 932" by "EN 932".

Replace "prEN 1097" by "EN 1097".

Replace "prEN 1367" by "EN 1367".

Replace "prEN 1744" by "EN 1744".

Insert "EN 13179 Tests for filler aggregate used in bituminous mixtures" after EN 1744.

## 2 Normative references

Replace "prEN 932-2" by "EN 932-2".

Replace "prEN 932-5" by "EN 932-5".

Replace "prEN 933-1" by "EN 933-1".

iTech STANDARD PREVIEW  
(standards.itech.ai)

## 5 Apparatus

Replace "prEN 932-5" by "EN 932-5".

[SIST EN 933-3:1999/A1:2004](https://standards.itech.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004)

### 5.2 Corresponding bar sieves

**Table 1- Bar sieves**

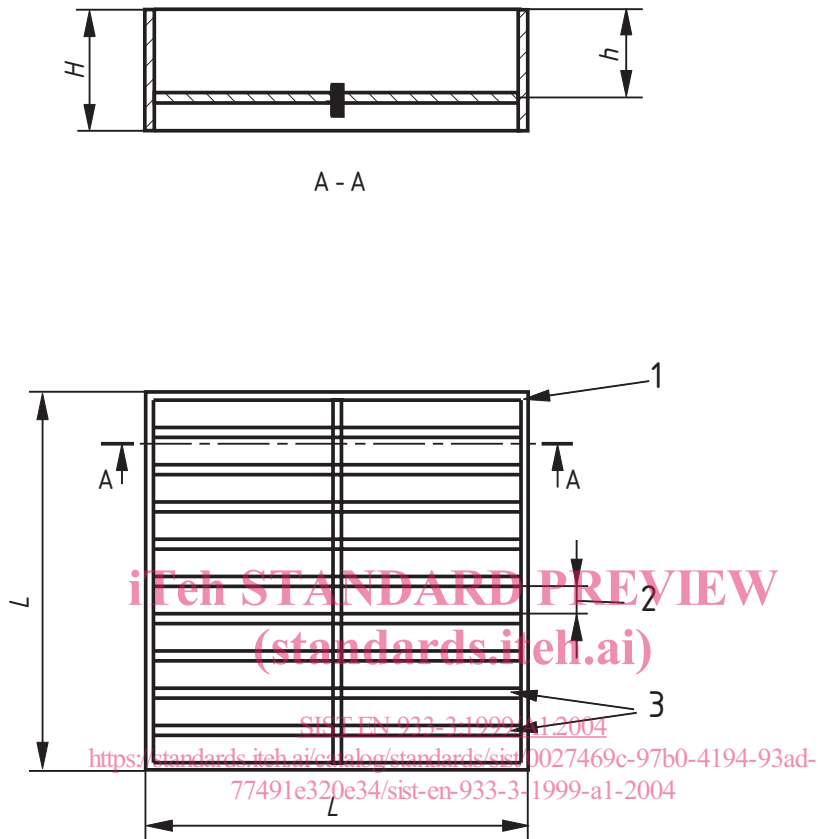
Replace the table by the following:

Particle size fraction $d_i/D_i$ mm	Width of slot in bar sieve mm
63/80	40 ± 0,5
50/63	31,5 ± 0,5
40/50	25 ± 0,4
31,5/40	20 ± 0,4
25/31,5	16 ± 0,4
20/25	12,5 ± 0,4
16/20	10 ± 0,2
12,5/16	8 ± 0,2
10/12,5	6,3 ± 0,2
8/10	5 ± 0,2
6,3/8	4 ± 0,15
5/6,3	3,15 ± 0,15
4/5	2,5 ± 0,15

## EN 933-3:1997/A1:2003 (E)

Figure 1

Replace Figure 1 by the following:



- 1 Metal frame (outside wooden frame optional)
- 2 Width of slot as specified in table 1
- 3 Cylindrical steel bars (usual diameter range from 5 mm to 15 mm depending on width of slot)

$L = 250 \text{ mm to } 300 \text{ mm}$

$H = 75 \text{ mm}$

$h = 55 \text{ mm to } 65 \text{ mm}$

Figure 1 - Bar sieves

NOTE  $L$  being constant for all range of bar sieves, the width of last slot cannot be equal to nominal value. In all cases, it should be smaller than the nominal value.

## 6 Preparation of test portions

In the 1<sup>st</sup> paragraph replace "prEN 932-2" by "EN 932-2".

In the 2nd paragraph replace "prEN 933-1" by "EN 933-1".

## **7 Procedure**

### **7.1 Sieving on test sieves**

At the end of the 1<sup>st</sup> paragraph replace "prEN 933-1" by "EN 933-1".

# **iTeh STANDARD PREVIEW (standards.iteh.ai)**

[SIST EN 933-3:1999/A1:2004](https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004)

<https://standards.iteh.ai/catalog/standards/sist/0027469c-97b0-4194-93ad-77491e320e34/sist-en-933-3-1999-a1-2004>