

Concrete pavements - Part 1: Materials

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

Concrete pavements - Part 1: Materials

Chaussées en béton - Partie 1: Matériaux

Fahrbahnbefestigungen aus Beton - Teil 1: Baustoffe

This European Standard was approved by CEN on 10 February 2013.

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Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	5
4 Requirements for constituent materials of concrete	5
4.1 General.....	5
4.2 Type of cement.....	6
4.3 Aggregates	6
4.3.1 General.....	6
4.3.2 Maximum size of aggregates	6
4.4 Mixing water	6
4.5 Other constituent materials	6
5 Basic requirements for concrete.....	6
5.1 General.....	6
5.2 Fresh concrete	6
5.2.1 Consistence.....	6
5.2.2 Density of fresh concrete.....	6
5.2.3 Air content	7
5.2.4 Cement content.....	7
5.2.5 Content or particles smaller than 0,25 mm for pavement quality concrete and lean concrete	7
5.2.6 Chloride content	7
5.3 Hardened concrete	7
5.3.1 Resistance to the effects of freeze/thaw and de-icing agents	7
5.3.2 Mechanical strength	7
6 Basic requirements for other materials for concrete pavements	9
6.1 General.....	9
6.2 Curing materials.....	9
6.3 Surface retarders	9
6.4 Joint sealants	10
6.5 Tie bars	10
6.6 Dowels	10
6.7 Reinforcing bars	10
Bibliography	11

Foreword

This document (EN 13877-1:2013) 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of an identical text or by endorsement, at the latest by September 2013 and conflicting national standards shall be withdrawn at the latest by September 2013.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13877-1:2004.

The following modifications have been made:

- The normative references have been reviewed.
- The units have been updated from N/mm² to MPa.
- The steel meshes have been included in the definition of reinforcement.
- Table 1 has been modified to include more strength classes, and the notes included in the table have been updated.
- Notes in Table 2 have been updated.
- Notes to Table 3 have been added.
- References EN 197-1 and EN 934-2 have been added to the Bibliography.

This European Standard is one of a series of standards as listed below:

- EN 13877-1, *Concrete pavements — Part 1: Materials*
- EN 13877-2, *Concrete pavements — Part 2: Functional requirements for concrete pavements*
- EN 13877-3, *Concrete pavements — Part 3: Specifications for dowels to be used in concrete pavements*

This European Standard refers to EN 206-1. In accordance with the scope of EN 206-1 some additional or different requirements are necessary for pavements, particularly to comply with safety of users, durability, environment and health.

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

1 Scope

This European Standard specifies requirements for:

- the constituents (concrete and other materials) of concrete pavements;
- the properties of fresh and hardened concrete.

This European Standard is applicable to concrete pavements cast in situ. Concrete compacted by rollers is not covered by this European Standard.

This European Standard covers concrete pavements for roads, motorways and airports, pedestrian footpaths, cycle tracks, storage areas, and in general all traffic-bearing structures.

2 Normative references

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

EN 206-1, *Concrete — Part 1: Specification, performance, production and conformity*

EN 1008, *Mixing water for concrete — Specification for sampling, testing and assessing the suitability of water, including water recovered from processes in the concrete industry, as mixing water for concrete*

EN 10080, *Steel for the reinforcement of concrete — Weldable reinforcing steel — General*

EN 12350-7, *Testing fresh concrete — Part 7: Air content — Pressure methods*

EN 12390-3, *Testing hardened concrete — Part 3: Compressive strength of test specimens*

EN 12390-5, *Testing hardened concrete — Part 5: Flexural strength of test specimens*

EN 12390-6, *Testing hardened concrete — Part 6: Tensile splitting strength of test specimens*

CEN/TS 12390-9, *Testing hardened concrete — Part 9: Freeze-thaw resistance — Scaling*

EN 12620, *Aggregates for concrete*

EN 13877-2:2013, *Concrete pavements — Part 2: Functional requirements for concrete pavements*

EN 13877-3, *Concrete pavements — Part 3: Specifications for dowels to be used in concrete pavements*

EN 14188-1, *Joint fillers and sealants — Part 1: Specifications for hot applied sealants*

EN 14188-2, *Joint fillers and sealants — Part 2: Specifications for cold applied sealants*

EN 14188-3, *Joint fillers and sealants — Part 3: Specification for preformed joint seals*

CEN/TS 14754-1, *Curing compounds — Test methods — Part 1: Determination of water retention efficiency of common curing compounds*