



NSAI
Standards

Irish Standard
I.S. EN 13877-2:2013

Concrete pavements - Part 2: Functional requirements for concrete pavements

I.S. EN 13877-2:2013

Incorporating amendments/corrigenda/National Annexes issued since publication:

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Údarás um Chaighdeáin Náisiúnta na hÉireann

English Version

Concrete pavements - Part 2: Functional requirements for concrete pavements

Chaussées en béton - Partie 2: Exigences fonctionnelles
pour les chaussées en béton

Fahrbahnbefestigungen aus Beton - Teil 2: Funktionale
Anforderungen an Fahrbahnbefestigungen aus Beton

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, symbols and abbreviated terms	5
3.1 Terms and definitions	5
3.2 Symbols and abbreviated terms	6
4 Functional requirements for concrete pavements	6
4.1 General	6
4.2 Strength of concrete pavements	6
4.2.1 General	6
4.2.2 Core compressive strength	7
4.2.3 Core tensile splitting strength	8
4.3 Thickness of concrete pavements	9
4.3.1 General	9
4.3.2 Method 1 (from cores)	10
4.3.3 Method 2 (by a non-destructive method)	10
4.4 Density of concrete pavements	10
4.5 Freeze-thaw resistance	11
4.6 Wear resistance of concrete pavements to studded tyres	11
4.7 Bond between two concrete layers	11
4.8 Dowels and tie bars	12
4.9 Resistance against fuel and oil penetration	12
5 Categories of quality controls for concrete pavements	12
Annex A (informative) Method of evaluating concrete core strength	14
Annex B (normative) Functional requirements for penetration in pavements with high risk of exposure to fuel, oil and other chemical liquids	15
Bibliography	16

Foreword

This document (EN 13877-2:2013) 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of an identical text or by endorsement, at the latest by September 2013 and conflicting national standards shall be withdrawn at the latest by September 2013.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 13877-2:2004.

The following modifications have been made:

- The normative references have been reviewed.
- The definition of continuously reinforced concrete roadbase (CRCR) has been modified to continuously reinforced concrete base (CRCB).
- The units have been updated from N/mm^2 to MPa.
- The limitation for cracks in jointed unreinforced concrete pavements has been improved.
- Alternative methods to EN 12390 for splitting strength might be used, if defined by relevant national standards or provisions in the place of use. A note has been included after Table 3 to explain it.
- Table 3 has been modified to include more splitting strength classes.
- In Table 4, a new category of Tolerance, T6, has been included.
- Alternative methods to CEN/TS 12390-9 for freeze-thaw resistance might be used, if defined by relevant national standards or provisions in the place of use.
- Regarding quality control, allowance has been included for different number of cores, if defined by specifications in the place of use; and the notes after table 7 have been included as normative text.
- Reference to EN 197-1 has 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*

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 concrete pavements cast in situ and compacted by vibration.

This European Standard also covers concrete sub-bases as well as concrete wearing courses on bridges.

This European Standard covers concrete pavements in motorways, airfields, pedestrian streets, 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 12350-1, *Testing fresh concrete — Part 1: Sampling*

EN 12390-1, *Testing hardened concrete — Part 1: Shape, dimensions and other requirements for specimens and moulds*

EN 12390-2, *Testing hardened concrete — Part 2: Making and curing specimens for strength tests*

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

EN 12390-7, *Testing hardened concrete — Part 7: Density of hardened concrete*

EN 12390-8, *Testing hardened concrete — Part 8: Depth of penetration of water under pressure*

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

EN 12504-1, *Testing concrete in structures — Part 1: Cored specimens — Taking, examining and testing in compression*

EN 13863-1, *Concrete pavements — Part 1: Test method for the determination of the thickness of a concrete pavement by survey method*

EN 13863-2, *Concrete pavements — Part 2: Test method for the determination of the bond between two layers*

EN 13863-3, *Concrete pavements — Part 3: Test methods for the determination of the thickness of a concrete pavement from cores*

EN 13863-4, *Concrete pavements — Part 4: Test methods for the determination of wear resistance of concrete pavements to studded tyres*

EN 13877-1, *Concrete pavements — Part 1: Materials*

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

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