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Design of fastenings for use in concrete - Plastic design of fastenings with headed and post-installed fasteners

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Design of fastenings for use in concrete - Plastic design of fastenings with headed and post-installed fasteners

Bemessung der Verankerung von Befestigungen in
Beton - Traglastverfahren für Befestigungsmittel von
Kopfbolzen und Dübel

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CEN/TR 17081:2018 (E)

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European foreword

This document (CEN/TR 17081:2018) has been prepared by Technical Committee CEN/TC 250 “Structural Eurocodes”, the secretariat of which is held by BSI.

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CEN/TR 17081:2018 (E)**Introduction**

It is intended that this document is used in conjunction with EN 1992-4.

The numerical values for reliability parameters are recommended values and may be changed in a National Annex, if required. The recommended values apply when the installation complies with the requirements of EN 1992-4:2018, 4.6.

1 Scope

This Technical Report gives provisions for design of ultimate limit states in addition to EN 1992-4 for headed and post-installed fasteners excluding concrete screws, which only transmit static actions to the concrete, when the loads on individual fasteners are determined according to plastic analysis of the joint where only equilibrium conditions but no compatibility conditions are considered. Fatigue, impact and seismic loads are not covered.

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 1992-1-1:2004, *Eurocode 2: Design of concrete structures — Part 1-1: General rules and rules for buildings*¹⁾

EN 1992-4:2018, *Eurocode 2 — Design of concrete structures — Part 4: Design of fastenings for use in concrete*

EN 1993-1-8:2005, *Eurocode 3: Design of steel structures — Part 1-8: Design of joints*²⁾

koniec náhľadu – text ďalej pokračuje v platenej verzii STN

1) This standard is impacted by the amendment EN 1992-1-1:2004/A1:2014 and corrigenda EN 1992-1-1:2004/AC:2008 and EN 1992-1-1:2004/AC:2010.

2) This standard is impacted by the corrigenda EN 1993-1-8:2005+AC:2005 and EN 1993-1-8:2005+AC:2009.