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English Version

## Non-preloaded structural bolting assemblies - Part 1: General requirements

Boulonnerie de construction métallique non  
précontrainte - Partie 1: Exigences générales

Garnituren für nicht vorgespannte  
Schraubverbindungen im Metallbau - Teil 1:  
Allgemeine Anforderungen

This European Standard was approved by CEN on 19 March 2015.

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## European foreword

This document (EN 15048-1:2016) has been prepared by Technical Committee CEN/TC 185 "Fasteners", 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of an identical text or by endorsement, at the latest by January 2017, and conflicting national standards shall be withdrawn at the latest by April 2018.

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 15048-1:2007.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports basic work requirements of Regulation (EU) No 305/2011.

For relationship with Regulation (EU) No 305/2011 see informative Annex ZA, which is an integral part of this document.

EN 15048 consists of the following parts, under the general title *Non-preloaded structural bolting assemblies*:

— *Part 1: General requirements*;

— *Part 2: Fitness for purpose*.

Compared to the previous version, the modifications are the following:

- the standard was revised to meet the new format for harmonized standards and in relation to the Regulation (EU) No. 305/2011 (CPR);
- the requirements of this standard only relate to the product characteristics of bolting assemblies which are necessary for CE marking;
- all clauses dealing with further technical or other requirements have been transferred to EN 15048-2;
- washers are not considered as part of the non-preloaded bolting assemblies, however they can be used as relevant;
- addition of bolting assemblies made in aluminum and aluminum alloys;
- addition of nominal diameters M5 to M10;
- Railway rail fasteners have been excluded.