

English Version

**Guidelines on implementing EN 1090-1:2009+A1:2011,
Execution of steel structures and aluminium structures -
Part 1: Requirements for conformity assessment of
structural components**

Lignes directrices pour l'application de l'EN 1090-1:2009+A1:2011, Exécution des structures en acier et des structures en aluminium - Partie 1: Exigences pour l'évaluation de la conformité des éléments structuraux

Leitfaden für die Umsetzung von EN 1090-1:2009+A1:2011, Ausführung von Stahlbetonwerken und Aluminiumtragwerken - Teil 1: Konformitätsnachweisverfahren für tragende Bauteile

This Technical Report was approved by CEN on 11 December 2016. It has been drawn up by the Technical Committee CEN/TC 135.

CEN members are the national standards bodies of 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, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

| | |
|---|----|
| European foreword..... | 3 |
| Introduction | 4 |
| 1 Scope..... | 5 |
| 2 Normative references | 5 |
| 3 Terms and definitions | 5 |
| 4 Conditions necessary for construction products to be covered by the scope of EN 1090-1..... | 6 |
| 5 Clarification..... | 6 |
| 5.1 General..... | 6 |
| 5.2 Condition 1 – The product fulfils the requirements of EN 1090-2 or EN 1090-3 | 6 |
| 5.3 Condition 2 – The product is a structural construction product within the meaning of the Construction Products Regulation (EU) 305/2011 | 6 |
| 5.3.1 Condition 2a - The product is intended to be incorporated in a permanent manner in construction works..... | 6 |
| 5.3.2 Condition 2b - The product has a structural function in relation to the construction work..... | 7 |
| 5.4 Condition 3 – The product is not covered by another European technical specification | 8 |
| 5.4.1 General..... | 8 |
| 5.4.2 Construction products covered by another harmonized standard | 8 |
| 5.4.3 Construction products covered by an ETA..... | 10 |
| Annex A (informative) Products covered by EN 1090-1 | 11 |
| Annex B (informative) Products not covered by EN 1090-1..... | 14 |

European foreword

This document (CEN/TR 17052:2017) has been prepared by Technical Committee CEN/TC 135 “Execution of steel structures and aluminium structures”, the secretariat of which is held by SN.

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

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

Introduction

The scope of the standard EN 1090-1:2009+A1:2011 “Execution of steel structures and aluminium structures: Part 1: Requirements for conformity assessment of structural components” is very broad and prompted the European Commission to publish on their website under the category “Frequently Asked Questions (FAQ) on the Constructions Products Regulation” a set of conditions for identifying when a steel or aluminium product falls within its scope and an indicative, non-exhaustive list of products that are not covered by the scope of EN 1090-1:2009+A1:2011.

This document aims to clarify in addition to the answers given on the European Commission’s FAQ website the scope of EN 1090-1:2009+A1:2011.

1 Scope

The scope of EN 1090-1:2009+A1:2011 states that the standard covers structural components and kits which are referred to as structural construction products in this document. This document gives information that clarifies when a structural construction product is covered by the scope of EN 1090-1:2009+A1:2011 and lists examples of products covered and not covered.

2 Normative references

The following documents, in whole or in part, are 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 1090-1:2009+A1:2011, *Execution of steel structures and aluminium structures - Part 1: Requirements for conformity assessment of structural components*

EN 1090-2:2008+A1:2011, *Execution of steel structures and aluminium structures - Part 2: Technical requirements for steel structures*

EN 1090-3:2008, *Execution of steel structures and aluminium structures - Part 3: Technical requirements for aluminium structures*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

Harmonized Standard for construction products (hEN)

standard adopted by one of the European standardisation bodies listed in Annex I to Directive 98/34/EC, on the basis of a request issued by the Commission, in accordance with Article 6 of that Directive, and which has been cited in the Official Journal of the European Union (OJEU) as a harmonized standard under the Construction Products Regulation (EU) 305/2011/EC

3.2

European Assessment Document (EAD)

document on the basis of the EU Construction Products Regulation EU 305/2011 adopted by the organisation of Technical Assessment Bodies for the purposes of issuing European Technical Assessments

3.3

European Technical Assessment (ETA)

documented assessment of the performance of a construction product in relation to its essential characteristics, in accordance with the respective European Assessment Document

3.4

European Technical Approval (ETA)

favourable technical assessment of the fitness for use of a product for an intended use on the basis of the Construction Products Directive (89/106/EEC), based on fulfilment of the essential requirements for construction works for which the product is used

Note 1 to entry: According to EU 305/2011/EC, article 66, 4) European technical approvals may be used as European Technical Assessments throughout the period of validity of those approvals.

3.5 European Technical Approval Guidelines (ETAG) guideline for the issuing of a European Technical Approval on the basis of the EU Construction Products Directive (89/106/EEC)

Note 1 to entry: According to EU 305/2011/EC, article 66, 3) ETAGs may be used as EADs.

4 Conditions necessary for construction products to be covered by the scope of EN 1090-1

Construction products are covered by the scope of EN 1090-1:2009+A1:2011 when all the following conditions are satisfied:

Condition 1: The product fulfils the requirements of EN 1090-2 or EN 1090-3

Condition 2: The product is a structural construction product within the meaning of the Construction Products Regulation (EU) 305/2011 which means:

Condition 2a: The product is intended to be incorporated in a permanent manner in construction works (buildings or civil engineering works), and

Condition 2b: The product has a structural function in relation to the construction work (i.e. its failure will affect the satisfaction of Basic Requirement 1 and subclause a) of Basic Requirement 2 as detailed in 5.3.2 and Annex I of the Construction Products Regulation (EU) 305/2011/EC).

Condition 3: This European Standard does not apply to construction products covered by another European technical specification (e.g. a specific harmonized standard (hEN) or a European Technical Approval or European Technical Assessment (ETA)).

5 Clarification

5.1 General

In this clause further clarification of the conditions of Clause 4 is given.

Structural construction products are part of a loadbearing construction which is an organized assembly of connected parts designed to provide mechanical resistance and stability to the works. A way of identifying a structural construction product is to ask the question: *"If the product is removed does its removal affect the strength and stability of the structure or a part of the structure?"*. If the answer to this question is yes then the product is a structural construction product, see also EN 1090-1:2009+A1:2011, 3.1.9.

For indicative, non-exhaustive [lists of products](#) covered and not covered by the scope of EN 1090-1:2009+A1:2011, see Annex A and Annex B of this document.

5.2 Condition 1 – The product fulfils the requirements of EN 1090-2 or EN 1090-3

For a product to fall within the scope of EN 1090-1 the processes for its manufacture shall comply with EN 1090-2 or EN 1090-3.

5.3 Condition 2 – The product is a structural construction product within the meaning of the Construction Products Regulation (EU) 305/2011

5.3.1 Condition 2a - The product is intended to be incorporated in a permanent manner in construction works

a) Incorporated in a permanent manner