



BSI Standards Publication

Execution of steel structures and aluminium structures

Part 4: Technical requirements for cold-formed structural steel elements
and cold-formed structures for roof, ceiling, floor and wall applications

National foreword

This British Standard is the UK implementation of EN 1090-4:2018.

BSI, as a member of CEN, is obliged to publish EN 1090-4:2018 as a British Standard. However, attention is drawn to the fact that during the development of this European Standard, the UK committee CB/203 voted against its approval as a European Standard.

The UK committee voted against EN 1090-4:2018 due to concerns over:

- the relationship with BS EN 14782;
- the walkability test, which does not address the impact of someone stumbling and/or falling on to the profiled sheeting;
- the lack of a reference to the fragility test (the *ACR[M]001 Test for Non-Fragility of Large Element Roofing Assemblies*, does address the impact of someone stumbling and/or falling on to the profiled sheeting);
- the thickness limits for roof, floor, cladding and other types of cold-formed structural elements;
- the number, location and spacing of fasteners used to connect sheeting to the supporting members and
- the information that must be made available to those involved in modifications/remedial work where the cladding has been designed for stressed-skin action.

The UK committee draws users' attention to National Annex NA, which addresses some of these concerns and provides additional information.

This standard gives the technical requirements for the execution for cold-formed structural steel elements and cold-formed structures for roof, ceiling, floor and wall applications and is a supporting standard for the harmonised standard BS EN 1090-1:2009+A1:2011, *Execution of steel structures and aluminium structures - Part 1: Requirements for conformity assessment of structural components*. Conformity assessment to BS EN 1090-1:2009+A1:2011 requires that the manufacturer operates a certified factory production control system.

The UK participation in its preparation was entrusted to Technical Committee CB/203, Design & execution of steel structures.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Execution of steel structures and aluminium structures -
Part 4: Technical requirements for cold-formed structural
steel elements and cold-formed structures for roof, ceiling,
floor and wall applications**

Exécution des structures en acier et des structures en
aluminium - Partie 4 : Exigences techniques pour
éléments et structures en acier formés à froid pour
applications en toiture, plafond, paroi verticale et
plancher

Ausführung von Stahltragwerken und
Aluminiumtragwerken - Teil 4: Technische
Anforderungen an tragende, kaltgeformte Bauelemente
aus Stahl und tragende, kaltgeformte Bauteile für Dach-
, Decken-, Boden- und Wandanwendungen

This European Standard was approved by CEN on 6 February 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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