

CB/203 Design & Execution of Steel Structures Summary Report to Stakeholders

Organisation: [CB/203 Design & Execution of Steel Structures](#)

Chairman: [Dr David Moore, BCSA](#)

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1. Design and Execution Standards under CB/203 Responsibility

CEN/TC 250/SC 3 EUROCODES: Design of Steel Structures

- EN 1993-1-1: General rules and rules for buildings (plus UK National Annex)
- EN 1993-1-2: General rules - Structural fire design (plus UK National Annex)
- EN 1993-1-3: General rules - Supplementary rules for cold-formed members and sheeting (plus UK National Annex)
- EN 1993-1-4: General rules - Supplementary rules for stainless steels (plus UK National Annex)
- EN 1993-1-5: General rules - Plated structural elements (plus UK National Annex)
- EN 1993-1-6: General rules - Strength and stability of shell structures.
- EN 1993-1-7: General rules - Strength and stability of planar plated structures subject to out of plane loading.
- EN 1993-1-8: Design of joint (plus UK National Annex)
- EN 1993-1-9: Fatigue (plus UK National Annex)
- EN 1993-1-10: Material toughness and through-thickness properties (plus UK National Annex)
 - o PD 6695-1-10:2009: Recommendations for the design of structures to BS EN 1993-1-10
- EN 1993-1-11: Design of structures with tension components (plus UK National Annex)
- EN 1993-1-12: General - High strength steels (plus UK National Annex)
- EN 1993-1-13 (**NEW**): **Rules for beams with large web openings**
- EN 1993-2: Steel bridges (plus UK National Annex)
- EN 1993-3-1: Towers, masts and chimneys – Towers and masts (plus UK National Annex)
- EN 1993-3-2: Towers, masts and chimneys – Chimneys
- EN 1993-4-1: Silos
- EN 1993-4-2: Tanks
- EN 1993-4-3: Pipelines
- EN 1993-5: Piling (plus UK National Annex)
- EN 1993-6: Crane supporting structures (UK National Annex)

CEN/TC 135: Execution of steel structures (aluminium component comes under B/525/9)

- BS EN 1090-1: Execution of steel structures and aluminium structures. Requirements for conformity assessment of structural components
 - o **PD/CEN TR 17052** Information for clarification of the scope of EN 1090-1
- BS EN 1090-2: Execution of steel structures and aluminium structures. Technical requirements for steel structures
- FprEN 1090-4: Technical requirements for cold-formed structural steel elements and cold-formed structures for roof, ceiling, floor and wall applications

ISO/TC 167 Steel and Aluminium Structures

- ISO/DIS 17607 (at Draft stage): Execution of Structural Steelwork

2. Standards due for Enquiry/Vote/Systematic Review in 2017

Standard	Action	Date Launched	Date Comments Due
prEN 1090-2	CEN Enquiry	January 2017	20 March 2017
EN 1993-3-1	Systematic Review	February 2017	31 July 2017
EN 1993-3-2	Systematic Review	February 2017	31 July 2017
EN 1993-4-1	Systematic Review	February 2017	31 July 2017
EN 1993-4-2	Systematic Review	February 2017	31 July 2017
EN 1993-4-3	Systematic Review	February 2017	31 July 2017
EN 1993-5	Systematic Review	February 2017	31 July 2017
EN 1993-6	Systematic Review	February 2017	31 July 2017

3. Update on CEN and ISO Activities

Update on CEN/TC 250/SC 3 Eurocode 3 Design of Steel Structures

7 parts of Eurocode 3 are currently under **systematic review**, as part of the programme to create a second generation of the Eurocodes. Comments on these are due by the 31 July 2017, to the Committee Secretary, helen.gray@bsigroup.com.

- Three new work items have recently been approved - CEN/TS 1993-1-101, CEN/TS 1993-1-801 and CEN/TR 1993-1-103: these are CEN Technical Specifications and a Technical Report for Alternative interaction method for members in bending and compression (101); Hollow section joint design according to the component method (801) and Elastic critical buckling of members (103). These documents will likely go for vote mid-2018 for which your input will be valued.
- New Work Items for EN 1993-1-1 and EN 1993-1-8 are currently out for vote: this will enable the appropriate CEN Project Teams to start on the revision of these standards within the re-development programme of the Eurocodes. Enquiry stages will follow, likely mid-2018.

Update on CEN/TC 135 Execution of Steel and Aluminium Structures

CEN/TC 135 held a meeting on the 6th and 7th July, with the following EN 1090 issues under discussion:

- A new version of prEN 1090-1 has been drafted by the CEN Working Group to take into account comments from the CEN Consultant, specifically how to enable the standard to comply with the mandate ([M/120](#)).
- prEN 1090-2 was issued for CEN Enquiry earlier in 2017 with a deadline date of 16 March 2017. The standard has been accepted for Formal Vote and it is anticipated that it will be issued to Member States for Formal Vote November 2017.
- FprEN 1090-4 – this standard went through a formal vote early in 2017. The UK voted against the approval of the standard due to safety concerns with regard to walkability (among others). However, the standard reached the threshold for approval from member states; it will therefore be published in the UK with a National Foreword. Finland has raised a formal objection to this standard and publication will be delayed until the objection has been resolved.

Update on ISO/167 Steel and Aluminium Structures

The UK abstained on the vote to accept ISO Draft International Standard 17607 *Execution of Structural Steelwork*, as it will not be implemented as a British Standard (the equivalent EN 1090 parts). The UK continues to participate in the committee activities. Roger Pope is our UK expert.

4. Next CB/203 Meeting: Thursday 7 September 2017 at BSI