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SIST EN 1090-2:2008/kFprA1:2011
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Izvedba jeklenih in aluminijastih konstrukcij - 2. del: Tehnične zahteve za izvedbo jeklenih konstrukcij

Execution of steel structures and aluminium structures - Part 2: Technical requirements for steel structures

Ausführung von Stahltragwerken und Aluminiumtragwerken - Teil 2: Technische Regeln für die Ausführung von Stahltragwerken

Exécution des structures en acier et des structures en aluminium - Partie 2: Exigences techniques pour les structures en acier

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Execution of steel structures and aluminium structures - Part 2: Technical requirements for steel structures

Exécution des structures en acier et des structures en
aluminium - Partie 2: Exigences techniques pour les
structures en acier

Ausführung von Stahltragwerken und Aluminiumtragwerken
- Teil 2: Technische Regeln für die Ausführung von
Stahltragwerken

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 135.

This draft amendment A1, if approved, will modify the European Standard EN 1090-2:2008. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

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Foreword

This document (EN 1090-2:2008/FprA1:2011) has been prepared by Technical Committee CEN/TC 135 "Execution of steel structures and aluminium structures", the secretariat of which is held by SN.

This document is currently submitted to the Unique Acceptance Procedure.

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EN 1090-2:2008/FprA1:2011 (E)**1 Modification to Clause 1**

Paragraph 1, hyphen 2, delete "for stainless steels and including S690 for carbon steels".

2 Modifications to 2.2.1

In reference EN 10029, replace "Tolerances on dimensions, shape and mass" with "Tolerances on dimensions and shape".

In reference EN 10051, replace "Continuously hot-rolled uncoated plate, sheet and strip of non-alloy and alloy steels" with "Continuously hot-rolled strip and plate/sheet cut from wide strip of non-alloy and alloy steels".

Replace

"EN 10169-1, Continuously organic coated (coil coated) steel flat products — Part 1: General information (definitions, materials, tolerances, test methods)

EN 10169-2, Continuously organic coated (coil coated) steel flat products — Part 2: Products for building exterior applications

EN 10169-3, Continuously organic coated (coil coated) steel flat products — Part 3: Products for building interior applications"

with

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"EN 10169, Continuously organic coated (coil coated) steel flat products — Technical delivery conditions".

Delete "EN 10292, Continuously hot-dip coated strip and sheet of steels with high yield strength for cold forming — Technical delivery conditions".

Replace

"EN 10326, Continuously hot-dip coated strip and sheet structural steels — Technical delivery conditions

EN 10327, Continuously hot-dip coated strip and sheet of low carbon steels for cold forming — Technical delivery conditions"

with "EN 10346, Continuously hot-dip coated steel flat products — Technical delivery conditions".

Replace

"EN ISO 9445, Continuously cold-rolled stainless steel narrow strip, wide strip, plate/sheet and cut lengths — Tolerances on dimensions and form (ISO 9445:2002)"

with

"EN ISO 9445-1, Continuously cold-rolled stainless steel — Tolerances on dimensions and form — Part 1: Narrow strip and cut lengths (ISO 9445-1:2009)

EN ISO 9445-2, Continuously cold-rolled stainless steel — Tolerances on dimensions and form — Part 2: Wide strip and plate/sheet (ISO 9445-2:2009)".

3 Modification to 2.2.2

Add "EN 1559-1, *Founding — Technical conditions of delivery — Part 1: General*

EN 1559-2, *Founding — Technical conditions of delivery — Part 2: Additional requirements for steel castings*".

4 Modifications to 2.2.3

In reference EN ISO 2560, replace "(ISO 2560:2002)" with "(ISO 2560:2009)".

In reference EN ISO 14343, replace "fusion" with "arc" and "(ISO 14343:2002 and ISO 14343:2002/Amd1:2006)" with "(ISO 14343:2009)".

In reference EN ISO 17633, replace "(ISO 17633:2004)" with "(ISO 17633:2010)".

5 Modifications to 2.2.4

Replace "prEN 14399-9" with "EN 14399-9".

Replace "prEN 14399-10" with "EN 14399-10".

In reference EN ISO 898-1, replace "Bolts, screws and studs (ISO 898-1:1999)" with "Bolts, screws and studs with specified property classes — Coarse thread and fine pitch thread (ISO 898-1:2009)".

In reference EN ISO 3506-1, replace "(ISO 3506-1:1997)" with "(ISO 3506-1:2009)".

In reference EN ISO 3506-2, replace "(ISO 3506-2:1997)" with "(ISO 3506-2:2009)".

Add "EN ISO 4042, *Fasteners — Electroplated coatings (ISO 4042:1999)*".

Add "EN ISO 7089, *Plain washers — Normal series — Product grade A (ISO 7089:2000)*

EN ISO 7090, *Plain washers, chamfered — Normal series — Product grade A (ISO 7090:2000)*

EN ISO 7091, *Plain washers — Normal series — Product grade C (ISO 7091:2000)*

EN ISO 7092, *Plain washers — Small series — Product grade A (ISO 7092:2000)*

EN ISO 7093-1, *Plain washers — Large series — Part 1: Product grade A (ISO 7093-1:2000)*

EN ISO 7093-2, *Plain washers — Large series — Part 2: Product grade C (ISO 7093-2:2000)*

EN ISO 7094, *Plain washers — Extra large series — Product grade C (ISO 7094:2000) (Corrigendum AC:2002 incorporated)*".

6 Modification to 2.3

Replace the title of reference ISO 286-2 with the following "Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts".

EN 1090-2:2008/FprA1:2011 (E)**7 Modifications to 2.4**

In reference EN ISO 4063, replace "(ISO 4063:1998)" with "(ISO 4063:2009, Corrected version 2010-03-01)".

In reference EN ISO 15609-4, replace "(ISO 15609-4:2004)" with "(ISO 15609-4:2009)".

8 Modifications to 2.7

Replace "EN ISO 14713, Protection against corrosion of iron and steel in structures — Zinc and aluminium coatings — Guidelines (ISO 14713:1999)" with

"EN ISO 14713-1, Zinc coatings — Guidelines and recommendations for the protection against corrosion of iron and steel in structures — Part 1: General principles of design and corrosion resistance (ISO 14713-1:2009)

EN ISO 14713-2, Zinc coatings — Guidelines and recommendations for the protection against corrosion of iron and steel in structures — Part 2: Hot dip galvanizing (ISO 14713-2:2009)".

9 Modification to 2.9

Replace "prEN 13670" with "EN 13670".

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10 Modification to 3.7.1

Note 2, replace "prEN 1090-1" with "EN 1090-1".

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11 Modifications to 4.2.1

Replace "a) the allocation of tasks and authority during the various phases of the project;" with

"a) organisation chart and managerial staff responsible for each aspect of the execution;".

In f), replace "any hold points" with "any specified hold points".

12 Modifications to 4.2.2

a), replace "2) organisation chart and managerial staff responsible for each aspect of the execution;" with

"2) the allocation of tasks and authority during the various phases of the project;".

b), delete "as defined in 4.2.1".

c), replace "Execution records related to a hold-point that affect continuation of execution shall be produced before the hold-point is released." with

"Execution records related to any specified hold-point shall be produced before the hold-point is released.".

13 Modifications to 5.3.1

Table 3, column 2, row 4, replace "EN 10149-1, EN 10149-2, EN 10149-3" with "EN 10149".

Table 3, column 3, row 4, replace "Not available" with "EN 10029, EN 10048, EN 10051, EN 10131, EN 10140".

Table 3, column 2, row 6, replace "EN 10292, EN 10326, EN 10327" with "EN 10346".

Table 3, column 2, row 6, replace "EN 10169-2, EN 10169-3" with "EN 10169".

Table 3, column 3, row 6, replace "EN 10169-1" with "EN 10169".

14 Modification to 5.3.4

Paragraph 1, replace "specified" with "used".

15 Modification to 5.4

Replace "product standard" with "product standard including necessary information and options as required in EN 1559-1 and EN 1559-2".

16 Modifications to 5.6.1

After paragraph 2, add new paragraph "Electroplated coatings of fasteners shall conform to EN ISO 4042".

After last paragraph, add

"NOTE Attention is drawn to the risk of hydrogen embrittlement during electroplating or hot dip galvanizing of 10.9 bolts."

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17 Modification to 5.6.3

Paragraph 4, c), replace "bolts" with "assemblies".

18 Modification to 5.6.4

Table 7, 1st column, replace "prEN 14399-10" with "EN 14399-10".

19 Modification to 5.6.5

Paragraph 1, replace "prEN 14399-9" with "EN 14399-9".

20 Modification to 5.6.6

Note, replace "[48]" with "[51]".

21 Modifications to 5.6.9

Title, replace "Taper washer" with "Washer".

Replace "Taper washers shall comply with the relevant product standard." with

EN 1090-2:2008/FprA1:2011 (E)**"5.6.9.1 Plain washers**

Washers from EN ISO 7089, EN ISO 7090, EN ISO 7091, EN ISO 7092, EN ISO 7093 or EN ISO 7094 may be used for carbon steels. Washers from EN ISO 7089, EN ISO 7090, EN ISO 7092 or EN ISO 7093-1 may be used for stainless steels. Hardness of the washers shall be in accordance with the requirements of EN 15048-1.

5.6.9.2 Taper washers

Taper washers shall comply with the relevant product standard."

22 Modifications to 5.6.13

Paragraph 2, b), replace "documentation should contain" with "documentation shall be in accordance with the product standard and should contain".

Paragraph 2, c), replace the text with "Marking of fasteners shall be in accordance with the product standard."

23 Modification to 6.4.1

End of Note, add "Some cutting methods can be unsuitable for components subject to fatigue."

24 Modifications to 6.5.2

Paragraph 2, replace "For steel according to EN 10025-4 hot forming is not permitted." with

"For steels according to EN 10025-4 and in the delivery condition +M according to EN 10025-2 hot forming is not permitted."

Paragraph 5, replace "red-hot state" with "red hot (600 °C to 650 °C) state".

25 Modification to 6.5.4

e), 3), replace "welded joint" with "the longitudinal seam weld".

26 Modifications to 6.6.3

Paragraph 3, replace

"- For EXC3 and EXC4, punching without reaming is not permitted. The holes shall be punched at least 2 mm undersize in diameter.

- The capability of holing processes shall be checked periodically as follows:"

with

"For EXC3 and EXC4, punching without reaming is not permitted if the plate thickness is greater than 3 mm. For plate thickness greater than 3 mm, the holes shall be punched at least 2 mm undersize in diameter. For plate thickness less than or equal to 3 mm, holes may be formed by full size punching.

The capability of holing processes shall be checked periodically as follows:"