

New and revised codes & standards

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BS EN PUBLICATIONS

BS EN ISO 945-1:2019

Microstructure of cast irons. Graphite classification by visual analysis
Supersedes BS EN ISO 945-1:2018

BS EN ISO 7053:2019

Fasteners. Hexagon washer head tapping screws
Supersedes BS EN ISO 7053:2011

BS EN ISO 15480:2019

Fasteners. Hexagon washer head drilling screws with tapping screw thread
Supersedes BS EN ISO 15480:1999

BS IMPLEMENTATIONS

BS ISO 945-4:2019

Microstructure of cast irons. Test method for evaluating nodularity in spheroidal graphite cast irons
No current standard is superseded

BRITISH STANDARDS WITHDRAWN

BS EN ISO 7053:2011

Hexagon washer head tapping screws
Superseded by BS EN ISO 7053:2019

BS EN ISO 15480:1999

Hexagon washer head drilling screws with tapping screw thread
Superseded by BS EN ISO 15480:2019

CEN EUROPEAN STANDARDS

EN ISO 945-1:2019

Microstructure of cast irons. Graphite classification by visual analysis
(ISO 945-1:2019)

EN 1993-1-5:2006/A2:2019

Eurocode 3. Design of steel structures. Plated structural elements

AD 434: Validity rules for hollow section joints

This AD note concerns a significant typographical error in Table 7.8 of BS EN 1993-1-8. The table presents validity limits for welded joints between hollow section brace members and RHS chord members.

For the common case of a K or N overlap, there is a limitation under the "Gap or overlap" column expressed as:

$$b_1/b_2 \leq 0.75$$

where b_1 is the width of the overlapping bracing member, and b_2 is the width of the overlapped member. Thus the limit precludes

bracing members of the same size, for which $b_1/b_2 = 1$, and this is clearly wrong.

In fact, the limit should be expressed as:

$$b_1/b_2 \geq 0.75$$

which prevents a narrow overlapping bracing being welded to a wide overlapped brace, but permits bracing of the same width to be used.

This limit is correctly expressed in literature published by Tata Steel, and has been corrected in the draft revisions to EN 1993-1-8.

As an aside, it may assist designers to note that definitions of some factors that appear in

the joint verification expressions, such as β , λ_{ov} , n and γ are found in Section 1.5 of BS EN 1993-1-8, not in Section 7 as might be expected. Similarly the definition and dimensions of gap and overlap joints are found in Figure 1.3, rather than in the section concerned with hollow section joints.

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