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SANS 10162-2:2011

Edition 2

SOUTH AFRICAN NATIONAL STANDARD

The structural use of steel

Part 2: Cold-formed steel structures

This national standard is the modified adoption of AS/NZS 4600:2005 and is adopted with the permission of Standards Australia Limited and Standards New Zealand.

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Table of changes

Change No.	Date	Scope

Acknowledgement

The SABS Standards division wishes to acknowledge Standards Australia Limited and Standards New Zealand as joint publishers of AS/NZS 4600:2005.

National foreword

This South African standard was approved by National Committee SABS TC 98, *Structural and geotechnical design standards*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This SANS document was published in December 2011.

This document supersedes SABS 10162-2:1993 (edition 1).

National modifications

The national committee responsible for this document accepted and adopted the full text of AS/NZS 4600:2005 as suitable for publication as a national standard, subject to the following modifications:

Reference to AS 1110, AS1110.1 and AS 1110.2 has been replaced by reference to SANS 1700-7-1 in order to harmonize the requirements for ISO metric hexagon precision bolts and screws with South African standards.

Reference to AS 1111, AS 1111.1 and AS 1111.2 has been replaced by reference to SANS 1700-7-5 in order to harmonize the requirements for ISO metric hexagon commercial bolts and screws with South African standards.

Reference to AS 1112.1, AS 1112.2, AS 1112.3 and AS 1112.4 has been replaced by reference to SANS 1700-14-1 in order to harmonize the requirements for hexagon nuts with South African standards.

Reference to AS 1163 has been replaced by reference to SANS 657-1 in order to harmonize the requirements for structural steel hollow sections with South African standards.

Reference to AS 1391 has been replaced by reference to SANS 6892 in order to harmonize the requirements for metallic materials with South African standards.

Reference to AS 1397 has been replaced by reference to SANS 4998 in order to harmonize the requirements for steel sheet with South African standards.

Reference to AS 4291.1 has been replaced by reference to SANS 1700-5-1 in order to harmonize the requirements for fasteners, bolts, screws and studs with South African standards.

National modifications (*concluded*)

Reference to AS 1170.2 has been replaced by reference to SANS 10160-3 in order to harmonize the requirements for earthquake loads with South African standards.

Reference to AS/NZS 1554.1 has been replaced by reference to AWS D1.1 in order to harmonize the requirements for welding of steel structures with South African standards.

Reference to AS/NZS 1554.2 has been replaced by reference to AWS D1.1 in order to harmonize the requirements for stud welding with South African standards.

Reference to AS/NZS 1562 and AZ/NZS 1562.1 has been replaced by reference to SANS 10237 in order to harmonize the requirements for roof and side cladding with South African standards.

In clause 1.5.1.6 the yield stress of unidentified steel may be taken as 200 MPa and the tensile strength as 360 MPa, in order to harmonize with South African practice.

To prevent uncertainty reference to NZS 3404 is deleted in clause 5.2.1 and clause 5.3.1.

To prevent uncertainty the phrase "for Australia" is deleted from clause 5.3.1, as well the whole of subclause (c) of clause 5.3.1.

To prevent uncertainty the phrase "for Australia" is deleted from clause 5.4.2.1 and clause 5.5.2.1, as well as the last sentence of each of these clauses.

To prevent uncertainty the note in the scope of appendix C is deleted.

To replace the phrase "Australian/New Zealand Standard, i.e. AS/NZS 4600" with the phrase "South African Standard, i.e. SANS 10162-2" in clause F5 of appendix F.

Reference to New Zealand has been deleted as we are harmonizing the Australian and South African standards.

A vertical line in the margin and the wording "National modification" indicate the specific sentences that are modified.

Australian/New Zealand Standard™

Cold-formed steel structures

