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AS 1554.1—1991

Australian Standard®

Structural steel welding (known as the SAA Structural Steel Welding Code)

Part 1: Welding of steel structures

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This Australian Standard was prepared by Committee WD/3, Welding of Structures. It was approved on behalf of the Council of Standards Australia on 8 January 1991 and published on 15 April 1991.

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Amendment No. 1
to
AS 1554.1—1991
Structural steel welding (known as the SAA Structural Steel Welding Code)
Part 1: Welding of steel structures

REVISED TEXT

The 1991 edition of AS 1554.1 is amended as follows; the amendments should be inserted in the appropriate place.

SUMMARY: This Amendment applies to Clauses 2.1, 3.1.2, 3.2.5 and 4.5.1.1, and Tables 4.4(B), 4.4(C), 4.5.1(A), 4.5.1(B), 4.5.2 and 5.3.4, and Appendices A and D.

Published on 14 September 1992.

AMDT No. 1 SEPT. 1992

Page 7 Clause 2.1

Item (c), *delete* 'AS 3679' and *substitute* 'AS 3679.1, AS 3679.2'.

AMDT No. 1 SEPT. 1992

Page 8 Clause 3.1.2

1 In title, *delete* **'Permissible'** and *substitute* **'Design'**.

2 Line 2, *delete* 'permissible'.

AMDT No. 1 SEPT. 1992

Page 9 Clause 3.2.5

Line 2, after 'AS 1250' insert 'and AS 4100'.

AMDT No. 1 SEPT. 1992

Page 27 Table 4.4(B)

In the Figure for joint identification B-P 6, C-P 6, transpose notations 't' and 'D'.

AMDT No. 1 SEPT. 1992

Page 29 Table 4.4(C)

Row 1, Column 3, *delete* 'Clause 5.2.4' and *substitute* 'Clause 5.2.3'.

AMDT No. 1 SEPT. 1992

Page 34 Clause 4.5.1.1

1 Item (b), line 1, *delete* the words 'Column 4' and *substitute* 'Columns 4 and 5'.

2 Item (c), *delete* the words 'Column 5' and *substitute* 'Column 6'.

3 Item (d), line 3, *delete* the words 'Columns 5, 6 and 7' and *substitute* 'Columns 7, 8 and 9'.

AMDT No. 1 SEPT. 1992

Page 34 Table 4.5.1(A)

At the end of the Table, *add* 2 new rows for steel types 7A and 7B as follows:

7A	E48XX	0 and 1	W50XY	W50X	W50X	1YM, 1YSM, 1YS	1YT	1YTM
7B	E48XX	2	W502Y	W502X.X	W502	2YM, 2YSM, 2YS	2YT	2YTM

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AMDT No. 1 SEPT. 1992

Page 35 Table 4.5.1(B)

Delete all existing Table and *substitute* the following:

Steel type	Specification and grade numbers of parent metal								
	AS 1163	AS 3678/AS 3679.2	AS 3679.1	AS 1450	AS 1548	AS 1594	AS 1595	AS 2074	AS 2624
1	C250	200 250 300	250	C200 H200 C250 H250	7-430R 7-430N 7-430T 7-430A 7-460R 7-460N 7-460T 7-460A	Hd1 Hd2 Hd3 Hd4 Hd200 Hd250 Hd300 Hd300/1	All grades	C2 C3 C4-1	S264
2	C250 L0	—	250 L0	—	7-430R L0 7-460R L0	—	—	—	S264 L0
3	—	250 L15 300 L15	250 L15	—	7-430N L20 7-430T L20 7-430A L20 7-460N L20 7-460T L20 7-460A L20	—	—	—	—
4	C350	350 WR350/1 400	WR350/1 WR350/2 350	C350 H350	5-490N 5-490A 7-490R 7-490N 7-490T 7-490A	Hd350 Hd400 HW350	—	C1 C4-2 L1A	—
5	C350 L0	WR350/1 L0	WR350/1 L0 WR350/2 L0 350 L0	—	—	XF300 XF400 XF500	—	—	S365 L0
6	—	350 L15 400 L15	WR350/2 L15 350 L15	—	5-490N L20 5-490T L20 5-490A L20 7-490N L20 7-490T L20 7-490A L20	—	—	—	—
7A	C450	—	—	—	—	—	—	—	—
7B	C450 L0	—	—	—	—	—	—	—	—

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Page 36 Table 4.5.2

At the end of the Table *add* 2 new rows for steel types 7A and 7B as follows:

7A 7B	500 500	NR 47	NR 26	NR 40	NR 0

AMDT No. 1 SEPT. 1992

Page 45 Table 5.3.4

Delete the existing row for Standard AS 1163 and *substitute* the following:

AS 1163	C250, C250 L0 C350, C350 L0 C450, C450 L0	1 3 3

AMDT No. 1 SEPT. 1992

Page 46 Table 5.3.4

1 Column 1, row 1, *delete* 'AS 3678' and *substitute* 'AS 3678 and AS 3679.2'.

2 Column 1, row 2, *delete* 'AS 3679' and *substitute* 'AS 3679.1'.

AMDT No. 1 SEPT. 1992

Page 59 Appendix A

Delete '3679 Hot-rolled structural steel bars and sections', and *substitute*:

3679 Structural steel
3679.1 Part 1: Hot-rolled bars and sections
3679.2 Part 2: Welded sections

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AMDT No. 1 SEPT. 1992

Page 62 Paragraph D4.2

Delete existing paragraph and *substitute*:

D4.2 Limitations Table D1 shall only be used without modification for members and components which comply with the fabrication and erection provisions of AS 4100, and with the provisions of this Standard.

Table D1 may be used without modification for welded members and connection components which are not subject to more than 1.0% outer bend fibre strain during fabrication. Members and components subject to greater outer bend fibre strains shall be assessed using the provisions of Paragraph D4.3.

AMDT No. 1 SEPT. 1992

Page 63 Table D1

Delete existing Table and *substitute*:

TABLE D1

PERMISSIBLE SERVICE TEMPERATURES ACCORDING TO STEEL TYPE AND THICKNESS

Steel type (see Table 4.5.1(B))	Permissible service temperatures (°C)							
	Thickness (mm)							
	0	5	10	20	30	40	50	
1	−20		−10	0				+10
2	−30		−20	−10		0		
3	−40		−30	−20	−10			
4	−10		0					+10
5	−30		−20	−10	0			
6	−40		−30	−20	−10			
7A	−10		0					+10
7B	−30		−20	−10	0			

NOTE: Table D1 applies for—

(a) elements of a member of connection component subject to tensile stress; and

(b) plates and sections, the flange thickness being used for the latter.

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