

MEDIUM & HEAVY PIPE

GRADE C250

MANUFACTURING PROCESS

Grade C250 Pipe, for general mechanical and low pressure reticulation applications, is manufactured by cold-forming and high frequency Electric Resistance Welding. The cold-forming process enhances the strength, hardness and surface finish of the pipe and produces product to tight dimensional tolerances. Pipe is tested by using non-destructive Eddy Current methods during the process.

AUSTRALIAN STANDARDS

Grade C250 Pipe is manufactured and tested to comply with the requirements of the following specifications:

AS 1074 - Steel tubes and tubulars for ordinary service.

AS 1163 - Structural steel hollow sections
(Grade C250, C250LO).

AS 4792 - Hot-dipped galvanised coating on ferrous hollow sections. Applied by a continuous or a specialised process.

LO indicates grades with guaranteed impact performances at 0°C. With impact guaranteed properties, the opportunities for the designer are now enhanced in low temperature service environments under AS 4100.

MECHANICAL PROPERTIES

Minimum Yield Strength	250 MPa
Minimum Tensile Strength	320 MPa
Minimum Elongation in 5.65 $\sqrt{S_0}$	22%

TOLERANCES

Straightness	} Refer to Australian Standards
Thickness Tolerance	
Dimensional Tolerance	
Length Tolerance	

+50mm/-0mm

If tighter tolerances are required, they must be specified at the time of order (conditions apply).

SUPPLY CONDITIONS - PAINTED FINISH

Red (Normal finish) or black (clear).

The coating thicknesses for these paints are:

Red & Black	12 microns average.
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Note: Non-standard finishes, such as NOPC, are available if ordered prior to rollings. Conditions apply.

GALVANISED FINISH

Hot dipped galvanised pipe is manufactured and tested to meet the requirements of AS 4792.

Coating mass: 300 g/m² min average both sides.

The coating adherence of the galvanising is satisfactory for the pipe to be bent to a radius 6 times the diameter of the pipe.

STANDARD LENGTHS

(DN 20 - DN 150) Red/Black/Galvanised 6.5m

Note: DN stands for Nominal Size and replaces NB (Nominal Bore).

THICKNESS AND MARKING

Grade C250 pipe is available in medium (M) and heavy (H) wall thickness. These thicknesses are identified by the following end colour codes:

Medium (M)	Blue
Heavy (H)	Red

Grade C250		MASS AND BUNDLING DATA - Calculated in accordance with AS 1163									
DIMENSIONS		BUNDLING			MASS						
Designation d _o t	Nominal Size DN	Bundle Dimensions mm		Lengths Per Bundle	Metres Per Bundle	Nominal kg/m		Mass m/tonne		Mass Per Bundle tonnes	
mm	mm	W	x H	6.5 m	m	Black	Galv.	Black	Galv.	Black	Galv.
13.5 x 2.3	8 M	Supplied in Circular Bundles		400	2320	0.64	0.67	1560	1490	1.49	1.55
2.9	8 H			400	2320	0.77	0.79	1310	1260	1.78	1.84
17.2 x 2.3	10 M	Supplied in Circular Bundles		300	1950	0.84	0.88	1190	1140	1.64	1.71
2.9	10 H			300	1950	1.02	1.05	985	951	1.98	2.05
21.3 x 2.6	15 M	364	318	217	1410.5	1.21	1.25	830	798	1.70	1.77
3.2	15 H	364	318	217	1410.5	1.44	1.48	695	674	2.03	2.09
26.9 x 2.6	20 M	350	306	127	825.5	1.56	1.60	642	623	1.29	1.32
3.2	20 H	350	306	127	825.5	1.87	1.92	535	522	1.54	1.58
33.7 x 3.2	25 M	327	327	91	591.5	2.41	2.46	415	406	1.42	1.46
4.0	25 H	327	327	91	591.5	2.93	2.99	341	335	1.73	1.77
42.4 x 3.2	32 M	383	337	61	396.5	3.09	3.17	323	316	1.23	1.26
4.0	32 H	383	337	61	396.5	3.79	3.86	264	259	1.50	1.53
48.3 x 3.2	40 M	436	384	61	396.5	3.56	3.64	281	274	1.41	1.44
4.0	40 H	436	384	61	396.5	4.37	4.45	229	225	1.73	1.77
60.3 x 3.6	50 M	422	374	37	240.5	5.03	5.14	199	195	1.21	1.24
4.5	50 H	422	374	37	240.5	6.19	6.30	161	159	1.49	1.51
76.1 x 3.6	65 M	533	472	37	240.5	6.44	6.57	155	152	1.55	1.58
4.5	65 H	533	472	37	240.5	7.95	8.08	126	124	1.91	1.94
88.9 x 4.0	80 M	445	397	19	123.5	8.38	8.54	119	117	1.03	1.05
4.9	80 H	445	397	19	123.5	10.3	10.6	99	97	1.25	1.27
101.6 x 4.0	90 M	508	454	19	123.5	9.63	9.81	104	102	1.19	1.21
4.9	90 H	508	454	19	123.5	11.9	12.2	86	84	1.44	1.47
114.3 x 4.5	100 M	571	509	19	123.5	12.2	12.4	82	81	1.50	1.53
5.4	100 H	571	509	19	123.5	14.50	14.7	69	68	1.79	1.82
139.7 x 5.0	125 M	699	382	13	84.5	16.6	16.9	60	59	1.40	1.42
5.4	125 H	699	382	13	84.5	17.9	18.1	56	55	1.51	1.53
165.1 x 5.0	150 M	660	451	10	65	19.7	20.0	51	50	1.28	1.30
5.4	150 H	660	451	10	65	21.3	21.6	47	46	1.38	1.40

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 RE: 552 - screwed in
 The 20 Justin
 HAS NOT RECEIVED INVOICE