



ISO 9001 : 2000

CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES

(Black, Color, and Galvanized Tubing)

ASTM A500



Dosco

DONG-A STEEL CO., LTD.



1. Tube Product Specification

ASTM A500 Grade A, B, C, D

2. Tensile Requirement

1) Round Structural Tubing

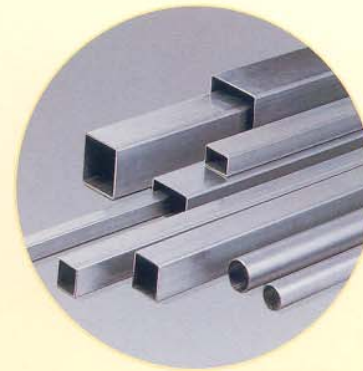
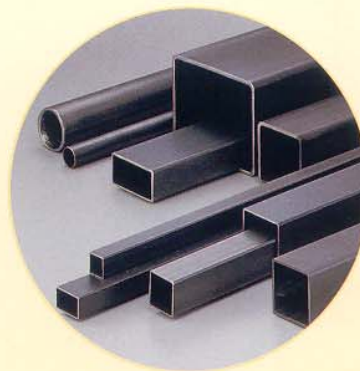
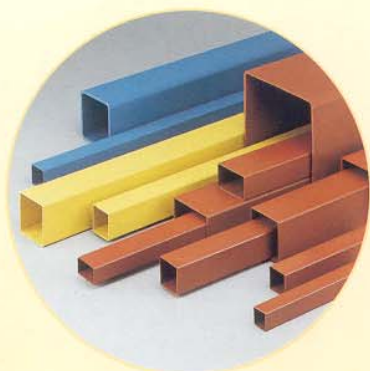
	Grade A	Grade B	Grade C	Grade D
Tensile strength, min, psi(MPa)	45,000 (310)	58,000 (400)	62,000 (427)	58,000 (400)
Yield strength, min, psi(MPa)	33,000 (228)	42,000 (290)	46,000 (317)	36,000 (250)
Elongation in 2 in. (50.8mm), min, %	25	23	21	23

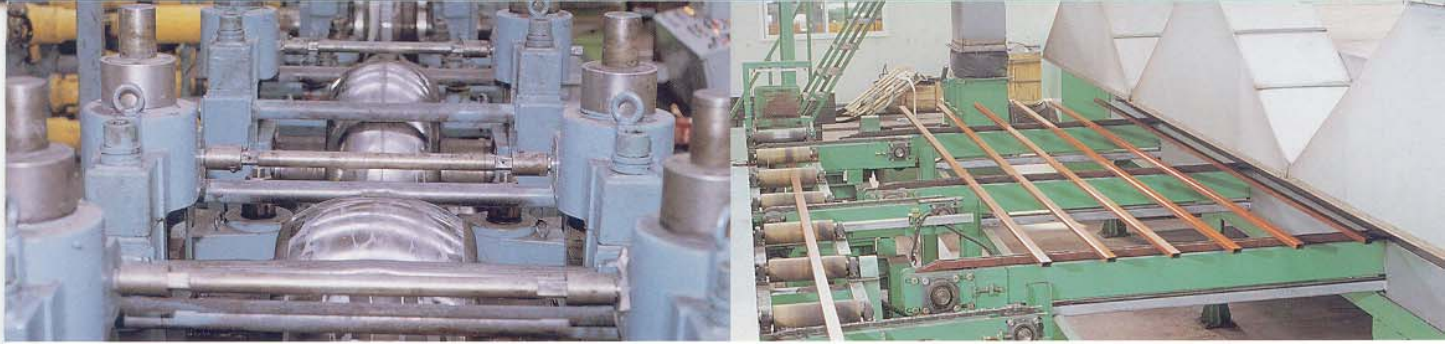
2) Shaped Structural Tubing

	Grade A	Grade B	Grade C	Grade D
Tensile strength, min, psi(MPa)	45,000 (310)	58,000 (400)	62,000 (427)	58,000 (400)
Yield strength, min, psi(MPa)	39,000 (269)	46,000 (317)	50,000 (345)	36,000 (250)
Elongation in 2 in.(50.8 mm), min, %	25	23	21	23

3. Chemical Requirement

Element	Composition, %			
	Grade A, B, and D		Grade C	
	Heat Analysis	Product Analysis	Heat Analysis	Product Analysis
Carbon, max	0.260	0.30	0.23	0.27
Manganese, max	-	-	1.35	1.40
Phosphorus, max	0.035	0.045	0.035	0.045
Sulfur, max	0.035	0.045	0.035	0.045
Copper, when copper steel is specified, min	0.200	0.180	0.20	0.180





4. Size Availability

1) Shaped Structural Tubing

Size				Thickness								Packing PCS/Bundle
Inch		mm		inch	0.063	0.095	0.125	0.157	0.177	0.236	0.354	
SQ	RTC	SQ	RTC	mm	1.6	2.3	3.2	4.0	4.5	6.0	9.0	
$\frac{3}{4} \times \frac{3}{4}$		20 × 20										300
1 × 1		25 × 25	30 × 20									210
$1\frac{1}{4} \times 1\frac{1}{4}$		30 × 30	40 × 20									150
$1\frac{1}{2} \times 1\frac{1}{2}$	2 × 1	40 × 40	50 × 30									100
2 × 2	$2\frac{1}{2} \times 1\frac{1}{2}$	50 × 50	60 × 40									80
$2\frac{1}{2} \times 2\frac{1}{2}$		60 × 60	75 × 45									48
	3 × 2		75 × 50									48
3 × 3	4 × 2	75 × 75	100 × 50									30/40
		80 × 80										30
4 × 4	5 × 3	100 × 100	125 × 75									20
5 × 5	6 × 4	125 × 125	150 × 100									16
6 × 6	8 × 4	150 × 150	200 × 100									9
	7 × 5		175 × 125									9
7 × 7	10 × 4	175 × 175	250 × 100									6
	8 × 6		200 × 150									6
8 × 8	10 × 6	200 × 200	250 × 150									6

Black / Color / Galvanized Tubing

Black / Color Tubing

2) Round Structural Tubing

Size		Thickness								Packing PCS/Bundle
Inch	mm	inch	0.063	0.095	0.125	0.157	0.177	0.236	0.354	
		mm	1.6	2.3	3.2	4.0	4.5	6.0	9.0	
$\frac{1}{2}$	21.3									310
$\frac{3}{4}$	26.7									217
1	33.4									153
$1\frac{1}{4}$	42.2									127
$1\frac{1}{2}$	48.3									100
2	60.3									61
3	88.9									24
4	114.3									13

Galvanized Tubing

Black / Color Tubing





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