

Material properties

Material	A 36 (PLATES) (USA / ASTM)
Group	Structural and constructional steels
Subgroup	ASTM A 36/A 36M Carbon steel shapes (section), plates, and bars of structural quality
Comment	Carbon content depends on thickness: C<0,26% for 40-65 mm, C<0,27% for 65-100 mm and C<0,29% for t > 100 mm.
Application	Intended for use in riveted, bolted, or welded construction of bridges and buildings, and for general structural purposes.

Yield Stress[MPa]			
Dimension	Min	Max	Approx
Plates	250	-	-

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
Plates	400	550	-

Elongation A5 [%]			
Dimension	Min	Max	Approx
Plates	23.0	-	-
Note:	Lo = 50 mm		

Chemical Composition [%]			
Criterion	Min	Max	Approx
C	-	0.2500	-
Si	-	0.4000	-
Mn	0.8000	1.2000	-
P	-	0.0400	-
S	-	0.0500	-
Cu	0.2000	-	-

- C For t <= 20 mm
- Mn For t > 40 mm

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