Material properties

Material **A 283 Grade C (USA / ASTM)**

Group Structural and constructional steels

Subgroup ASTM A 283/A 283M Carbon steel plates of structural quality for general application

Comment

Application -

Yield Stress[MPa]			
Dimension	**Min**	**Max**	**Approx**
Plate	205	-	-
Plate; w > 600 mm	205	-	-

Tensile Stress[MPa]			
Dimension	**Min**	**Max**	**Approx**
Plate	380	515	-
Plate; w > 600 mm	380	515	-

Elongation A5 [%]			
Dimension	**Min**	**Max**	**Approx**
Plate	25.0	-	-
Plate; w > 600 mm	23.0	-	-

Chemical Composition [%]			
Criterion	**Min**	**Max**	**Approx**
C	-	0.2400	-
Si	-	0.4000	-
Mn	-	0.9000	-
P	-	0.0350	-
S	-	0.0400	-
Cu	0.2000	-	-

Heat Treatment

The longitudinal edges of the steel plate shall be shaped to give the most satisfactory results by the particular welding process employed. The steel plate shall then be properly formed and may be tacked preparatory to welding. The weld shall be made by automatic means (except tack welds) and shall be of reasonably uniform width and height for the entire length of the pipe. By agreement between the purchaser and the manufacturer, manual welding by qualified procedure and welders may be used as an alternate under this specification.
All longitudinal seams, spiral seams, and shop girth seams shall be butt welded.

Cross Reference Table

Material	Standard	Country
SA-283 C	**ASME**	USA
A 515 Grade 60	**ASTM**	USA
BSt 3 kp	**BDS**	Bulgaria
WSt 3 kp	**BDS**	Bulgaria
11373	**CSN**	Czech Republic
USt 37-2	**DIN**	Germany
USt 37-2 G	**DIN**	Germany
1.0036	**EN**	European Union
Fe 360 BFU	**EN**	European Union
Q235A-b	**GB**	China
A3 (Q 235 A)	**GB**	China
Q235A	**GB**	China
Q235A-Z	**GB**	China
Q235A-F	**GB**	China
St3kp	**GOST**	Russia
16D	**GOST**	Russia
C 0371	**JUS**	Yugoslavia
Fe 235 B/FU	**MSZ**	Hungary
S 235 JRG 1	**NBN**	Belgium
S 235 JRG 1	**NS**	Norway
St 3 SX	**PN**	Poland
1311	**SS**	Sweden
1312	**SS**	Sweden
K02401	**UNS**	USA
1.0036	**WN**	Germany