§ 179.300-7 Materials.

(a) Steel plate material used to fabricate tanks must conform with the following specifications with the indicated minimum tensile strength and elongation in the welded condition. However, the maximum allowable carbon content for carbon steel must not exceed 0.31 percent, although the individual ASTM specification may allow for a greater amount of carbon. The plates may be clad with other approved materials:

Specifications[2]	Tensile strength (psi) welded condition[1](minimum)	Elongation in 2 inches (percent) welded condition[1](longitudinal) (minimum)
ASTM A 240/A 240M type 304	75,000	25
ASTM A 240/A 240M type 304L	70,000	25
ASTM A 240/A 240M type 316	75,000	25
ASTM A 240/A 240M type 316L	70,000	25
ASTM A 240/A 240M type 321	75,000	25
ASTM A 285 Gr. A	45,000	29
ASTM A 285 Gr. B	50,000	20
ASTM A 285 Gr. C	55,000	20
ASTM A 515/A 515M Gr. 65	65,000	20
ASTM A 515/A 515M Gr. 70	70,000	20
ASTM A 516/A 516M Gr. 70	70,000	20

[1]Maximum stresses to be used in calculations.

[2]These specifications are incorporated by reference (IBR, see §171.7 of this subchapter.)

(b) [Reserved]

(c) All plates must have their heat number and the name or brand of the manufacturer legibly stamped on them at the rolling mill.

[Amdt. 179–10, 36 FR 21355, Nov. 6, 1971, as amended by Amdt. 179–42, 54 FR 38798, Sept. 20, 1989; Amdt. 179–43, 55 FR 27642, July 5, 1990; Amdt. 179–52, 61 FR 28682, June 5, 1996; Amdt. 179–52, 61 FR 50255, Sept. 25, 1996; Amdt. 179–53, 61 FR 51342, Oct. 1, 1996; 68 FR 75763, Dec. 31, 2003]