

Product and Application

TruSTRENGTH 100 plate provides excellent properties in strength and toughness. This product excels in downstream fabrication processes like bending, machining laser cutting, plasma cutting and welding. This product is used widely in construction and forestry equipment, mining, cranes, heavy-duty transport equipment, railcars and various applications requiring a high strength-to-weight ratio. TruSTRENGTH 100 is melted and manufactured in the United States of America.

Mechanical Properties

Yield Strength (min.)	100 ksi (689 MPa)
Tensile Strength (min.)	110 ksi (758 MPa)
Elongation	10%
Bend Radius	2.5T (longitudinal), 2.5T (transverse). Larger bend radius recommended for thicker plates.

Typical values unless otherwise noted.

Mechanical tests conducted in accordance with ASTM A370, latest revision.

Tensile tests conducted per heat/heat treat lot.

Dimensional Tolerances

Flatness	Flatness tolerances meet or exceed 1/2 of ASTM A6, Table 14, latest revision.
Thickness	-0.010"/+0.030" to nominal thickness.
Length and Width	Length and width tolerances meet ASTM A6, latest revision/

Chemical Composition

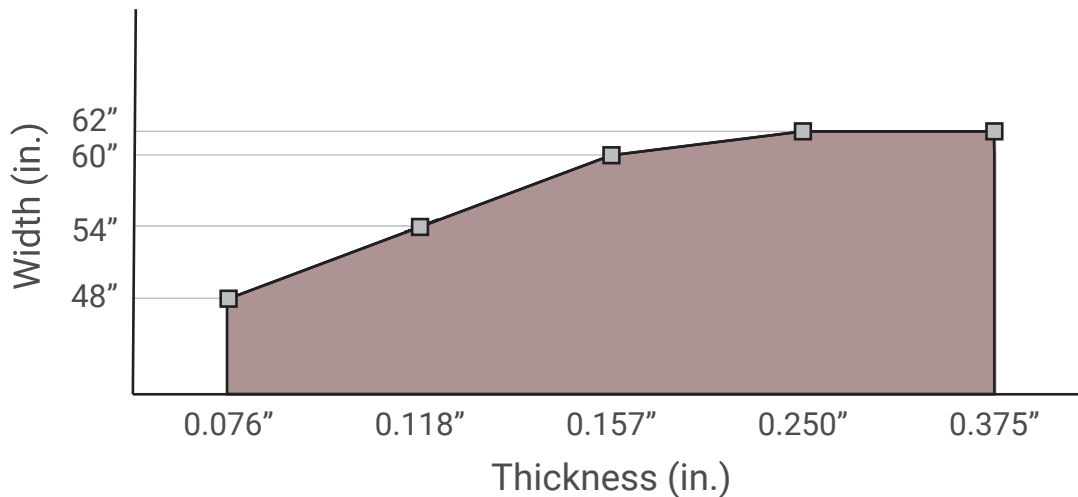
	C	Mn	P	S	Ni	Cr	Mo
Max	0.15	2.00	0.020	0.025	0.50	0.30	0.40



Fabrication, Bending, Post-Delivery Heating and Welding

- Bending** Free bending should be performed utilizing maximum allowable bend radius to prevent cracking. TruSTRENGTH 100 plates can be bent using a minimum radius of 2.5T in the longitudinal direction and 2.5T in the transverse direction. Larger bend radius is recommended for thicker plates. Transverse radius is the bend line parallel to rolling direction.
- Welding** TruSTRENGTH 100 plate can be welded by conventional processes such as SMAW, SAW and GMAW, provided that the weld procedures used are suitable for this grade and design of the welded structure, using low hydrogen conditions.

Available Dimensions



Please inquire for other dimensions.

Standard Delivery Conditions

- Surface Finish** The product finish is hot-rolled. Shot blasting and rust preventative applications are available. Please inquire.
- Test Reports** Supplied with shipment for each production lot in the shipment. Reports include product description, heat number, chemical analysis and tensile test data.

