## ASTM A501-89 ASME SA501 HOT-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING

This standard is issued under the fixed designation A 501; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (2) indicates an editorial change since the last revision or reapproval. This specification has been approved for use by agencies of the Department of Defense. Consult the DoD Index of Specifications and Standards for specific year of issue which has been adopted by the Department of Defense.

## 1. Scope

- 1.1 This specification covers hot-formed welded and seamless carbon steel square, round, rectangular, or special shape structural tubing for welded, riveted, or bolted construction of bridges and buildings, and for general structural purposes.
- 1.2 Square and rectangular tubing is furnished in sizes 1 to 10 in. (25.4 to 254 mm) across flat sides with wall thickness 0.095 to 1,000 in. (2.41to 25.40 mm), depending on size; round tubing is furnished in NPS 1/2 to 24 (Note), incl, with nominal (average) wall thicknesses 0.109 to 1.000 in. (2.77 to 25.40 mm), depending on size. Tubing having other dimensions may be furnished provided such tubing complies with all other requirements of this specification.
- 1.3 Tubing may be furnished with hot-dipped galvanized coating.
- 1.4 The values stated in inch-pound units are to be regarded as the standard.

NOTE-The dimensionless designator NPS(nominal pipe size) has been substituted in this standard for shuh traditional terms as "nominal diameter," "size", and "nominal size."

JIS			ASTM			BS			DIN			NF			ISO			Index
Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Type	Standard Number	Grade	Туре	Number
G3461	STB340	С	A161	LC	С	3059	HFS320	С				A49-245	TS34e	С				C010
	(STB35)		A192	-	С		CFS320	С					TS34c	С				
			A226	-	С		ERW320	С										
			A556	GrA2	С		CEW320	С										
			A557	GrA2	С		S1 360	С										
							S2 360	С										
							ERW 360	С										
							CEW360	С										
-						3606	ERW320	С							_			
	-		_				CEW320	С		-			_		_			_

							CFS320	С										
	STB410	С	A179	GrC	С	3059	S1 440	С	17175	St45.8	С	A49-213	TU42c	С	2604/2	TS9H	С	
	(STB42)		A210	GrA1	С		S2 440	С	17177	St42.8	С	A49-215	TU42c	С		TW9H	С	
			A556	GrB2	С		ERW 440	С				A49-243	TS42c					
			A557	GrB2	С		CEW 440	С				A49-245	TS42c					
						3602	HFS 410	С					TS42c					
							CFS 410	С										
							ERW 410	С										
							CEW 410	С										
						3606	ERW 440	С										
							CEW 440	С										
							CFS 440	С										
STB510	С							С	17175	19Mn5	С	A49-213	TU52C	С	2604/2	TS18	С	
(STB52)								С				A49-248	TU52C	С				