

A615/A615M-04b

Tensile Requirements

	Grade 40 [280]	Grade 60 [420]	Grade 75 [520]
Tensile strength, min, psi [MPa]	60000 [420]	90000 [620]	100000 [690]
Yield strength, min, psi [Mpa]	40000 [280]	60000 [420]	75000 [520]
Elongation in 8 in. [203.2mm], min, %:			
Bar Designation No.			
3 [10]	11	9	...
4, 5 [13, 16]	12	9	...
6 [19]	12	9	7
7, 8 [22, 25]	...	8	7
9, 10, 11 [29, 32, 36]	...	7	6
14, 18 [43, 57]	...	7	6

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Bend Test Requirements

Bar Designation No.	Pin Diameter for Bend Tests at 180 degree		
	Grade 40 [280]	Grade 60 [420]	Grade 75 [520]
3, 4, 5 [10, 13, 16]	7/2 d	7/2 d	
6 [19]	5d	5d	5d
7, 8 [22, 25]	...	5d	5d
9, 10, 11 [29, 32, 36]	...	7d	7d
14, 18 [43, 57] (at 90 degree)	...	9d	9d