### Structural Bolt Material Grades and Finishes



# A325









#### **MATERIAL GRADES**

**A307B** - Medium strength, heat treated carbon steel A325 Type 1 - Strong, heavy-duty material containing two types of quenched and tempered steel for structural steel-tosteel connections

**A490 Type 1** - Made from alloy steel creating a higher strength fastener **Class 10.9** - Strong steel, used for highstress applications or materials **A394 Type 0** - Used for steel tower bolts; corrosion resistant and chemical resistant, made to withstand environmental pressures

A394 Type 1 - Used for steel transmission tower bolts; corrosion resistant and chemical resistant, made to withstand environmental pressures

#### **FINISHES AND COATINGS**

**Black Oxide -** A black coating that covers the top layer of a ferrous material with a chemical treatment. Corrosion resistant in dry environments.

Hot Dipped Galvanized - Molten zinc finishing process that creates a tightly bonded alloy for superior corrosion resistance. Thicker than other finishes and should be used with hot dipped galvanized nuts.

**Zinc Yellow** - Yellow-plated zinc finish that protects against corrosion in wet environments.

# **Grade A307B Heavy Hex Bolts**

- Tensile strength: 60.000 psi
- Meet ASME B18.2.1, ASTM A307 standards

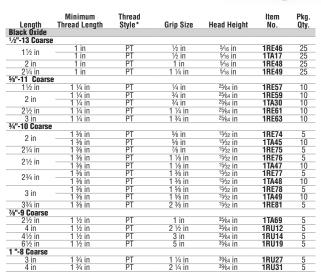
1	Minimum	Thread	0-1- 01	11	Item	Pkg.
Length	Thread Length	Style*	Grip Size	Head Height	No.	Qty.
Black Oxide						
1/2"-13 Coarse						
2 in	1 1/4 in	PT	3/4 in	11/32 in	41JU56	25
21/2 in	1 1/4 in	PT	1 1/4 in	11/32 in	41JU58	25
3 in	1 1/4 in	PT	1 ¾ in	11/32 in	41JU60	25
5/8"-11 Coarse	)					
1½ in	1 ½ in	FT	_	27/64 in	41JU61	10
2½ in	1 ½ in	PT	1 in	<sup>27</sup> / <sub>64</sub> in	41JU65	10
3 in	1 ½ in	PT	1 ½ in	27/64 in	41JU67	10
3/4"-10 Coarse						
1¾ in	1 ¾ in	FT		½ in	41JU75	10
2 in	1 ¾ in	PT	1/4 in	½ in	41JU76	10
31/4 in	1 ¾ in	PT	1 ½ in	½ in	41JU81	10
3¾ in	1 ¾ in	PT	2 in	½ in	41JU83	10
4½ in	1 ¾ in	PT	2 ¾ in	½ in	41JU85	10
5 in	1 ¾ in	PT	3 1/4 in	1/2 in	41JU86	10
%"-9 Coarse						
5 in	2 in	PT	3 in	37/64 in	41JU96	5
1 1/8"-7 Coars	9					
5 in	2 ½ in	PT	2 ½ in	3/4 in	41JV08	5



	_ Minimum	Thread			Item	Pkg.
Length	Thread Length	Style*	Grip Size	Head Height	No.	Qty.
<b>Hot Dipped G</b>	alvanized					
1/2"-13 Coars						
1½ in	1 1/4 in	PT	1/4 in	11/32 in	41JT95	25
21/2 in	1 1/4 in	PT	1 1/4 in	11/32 in	41JT99	25
5/8"-11 Coars	е					
13/4 in	1 ½ in	PT	1/4 in	<sup>27</sup> / <sub>64</sub> in	41JU04	10
21/2 in	1 ½ in	PT	1 in	<sup>27</sup> / <sub>64</sub> in	41JU07	10
3 in	1 ½ in	PT	1 ½ in	<sup>27</sup> / <sub>64</sub> in	41JU09	10
3/4"-10 Coarse	•					
2 in	1 ¾ in	PT	1/4 in	1/2 in	41JU18	10
3 in	1 ¾ in	PT	1 1/4 in	½ in	41JU22	10
31/2 in	1 ¾ in	PT	1 ¾ in	1/2 in	41JU24	10
4 in	1 ¾ in	PT	2 1/4 in	1/2 in	41JU26	10
%"-9 Coarse						
5 in	2 in	PT	3 in	37/64 in	41JU38	5
1 "-8 Coarse						
4 in	2 1/4 in	PT	1 ¾ in	43/64 in	41JU44	5
* FT = Fully Th	readed, PT = Parti	ally Threaded	1.			

## **Grade A325 Structural Bolts**

- Tensile strength: 120,000 psi
- Meet ASME B18.2.6, ASTM A325 and ASTM F3125 standards





	Minimum	Thread			Item	Pkg.
Length	Thread Length	Style*	Grip Size	Head Height	No.	Qty.
Hot Dipped G						
1/2"-13 Coars						
1 1/4 in	1 in	PT	1/4 in	5/16 in	31JL86	25
1½ in	1 in	PT	½ in	5/16 in	1TB56	25
	1 in	PT	½ in	5/16 in	31JL87	25
1¾ in	1 in	PT	3/4 in	5/16 in	31JL88	25
2 in	1 in	PT	1 in	5∕16 in	31JL89	25
2½ in	1 in	PT	1 ½ in	5∕16 in	1TB60	25
2¾ in	1 in	PT	1 ¾ in	5/16 in	31JL92	25
%"-11 Coars						
1½ in	1 ¼ in	PT	1/4 in	<sup>25</sup> / <sub>64</sub> in	1RU84	10
1¾ in	1 ¼ in	PT	½ in	<sup>25</sup> /64 in	1RU85	10
2 in	1 ¼ in	PT	3/4 in	<sup>25</sup> / <sub>64</sub> in	1RU86	10
2½ in	1 ¼ in	PT	1 1/4 in	25/64 in	1RU88	10
4½ in	1 ¼ in	PT	3 1/4 in	<sup>25</sup> / <sub>64</sub> in	1RU95	10
3/4"-10 Coarse	9					
2 in	1 3/8 in	PT	5⁄8 in	15/32 in	1RY11	5
2½ in	1 % in	PT	1 1/8 in	15/32 in	1RY13	5 5
2¾ in	1 3/8 in	PT	1 3/8 in	15/32 in	1RY14	5
3 in	1 % in	PT	1 % in	15/32 in	1RY15	5
31/4 in	1 % in	PT	1 % in	15/32 in	1RY16	5
7 in	1 % in	PT	5 % in	15/32 in	31JL82	10
7/8"-9 Coarse						
2½ in	1 ½ in	PT	1 in	35/64 in	1RY35	5 5
3 in	1 ½ in	PT	1 ½ in	35/64 in	1RY41	5
1 "-8 Coarse						
3 in	1 ¾ in	PT	1 1/4 in	39/64 in	1RY61	5
1 1/8"-7 Coars	se					
5 in	2 in	PT	3 in	11/16 in	1RY84	5
6 in	2 in	PT	4 in	11/16 in	1RY86	5
Zinc Yellow						
1/2"-13 Coars	е					
1½ in	1 in	PT	1/4 in	5/16 in	1TU47	50
5/8"-11 Coars			71111	710111		- 00
1½ in	1 ¼ in	PT	1/4 in	25/64 in	1TU49	25
13/4 in	1 ¼ in	PT	½ in	25/64 in	1TU50	25
2 in	1 ½ in	PŤ	3/4 in	25/64 in	11051	25
3/4"-10 Coarse				. 51 111		
2½ in	1 % in	PT	1 1/8 in	15/32 in	1TU56	25
L/2 III	1 70 111		1 70 111	702 111	11000	20