



THOMPSON ENTERPRISES

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SUBMITTAL INFORMATION

"BOLTS, NUTS AND FLAT WASHERS"

"ABSTRACT OF ASTM A307 GRADE A AND B"

CARBON STEEL BOLTS AND STUDS, 60,000 PSI TENSILE STRENGTH

GRADE: LOW CARBON STEEL

CHEMICAL REQUIREMENTS:

	<u>GRADE A</u>	<u>GRADE B</u>
PHOSPHOROUS MAX %	0.06	0.04
SULFUR, MAX %	0.15	0.05

CHEMICAL ANALYSES SHALL BE PERFORMED IN ACCORDANCE WITH ASTM A751.

MECHANICAL REQUIREMENTS:

	<u>MIN.</u>	<u>MAX.</u>
HARDNESS - BRINELL	121	241
- ROCKWELL	69	100
TENSILE STRENGTH (KSI)	60	100
ELONGATION IN 2 IN., %	18	

DIMENSIONS:

UNLESS OTHERWISE SPECIFIED, THREADS SHALL BE THE COARSE THREAD SERIES AS SPECIFIED IN THE LATEST ISSUE OF ANSI/ASME B1.1, PAGE A-26. HAVING A CLASS 2a TOLERANCE. GRADE A BOLTS SHALL BE HEX BOLTS WITH DIMENSIONS AS GIVEN IN THE LATEST ISSUE OF ANSI/ASME B18.2.1, PAGE C-1. UNLESS OTHERWISE SPECIFIED GRADE B BOLTS SHALL BE HEAVY HEX BOLTS.

IDENTIFICATION SYMBOL: "A 307 A" OR "A 307 B"

NUTS:

NUTS SHALL CONFORM TO ASTM A563 "CARBON AND ALLOY STEEL NUTS" AND SHALL CONFORM IN DIMENSIONS PRESCRIBED IN ANSI/ASME/ASME B18.2.2. UNLESS OTHERWISE SPECIFIED, FINISHED HEX NUTS WILL BE SUPPLIED WITH GRADE A 307, A BOLTS AND THE HEAVY SERIES WILL BE SUPPLIED WITH GRADE A 307, B BOLTS.

OTHER:

BOLTS AND NUTS MAY BE SUPPLIED IN PLAIN, ZINC PLATED, HOT-DIPPED OR MECHANICALLY GALVANIZED FINISHES.

FLAT WASHERS:

ALL WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.

ADDITIONAL INFORMATION:

ADDITIONAL INFORMATION CAN BE FOUND IN ASTM A 307, DTD 1994, AND ASTM A 563,