

# HEX BOLTS & STUDS F593 GR 2 (316) COND CW2

## ***SUBMITTAL SPECIFICATION***

"ABSTRACT OF ASTM F593"

"STAINLESS STEEL BOLTS, HEX CAP SCREWS AND STUDS"

**GRADE:** UNS S31600, ASTM F593 ALLOY GROUP 2, CONDITION "CW2"

### **CHEMICAL REQUIREMENTS (%):**

	<u>PERCENTAGE</u>
CARBON, MAX	0.08
MANGANESE, MAX	2.00
PHOSPHOROUS, MAX	0.045
SULFUR, MAX	0.030
SILICON, MAX	1.00
CHROMIUM	16.00 - 18.00
NICKEL	10.00 - 14.00
MOLYBDENUM	2.00-3.00

### **MECHANICAL REQUIREMENTS:**

#### **3/4"-1 1/2" FULL-SIZE TESTS**

TENSILE STRENGTH	85 - 140 KSI
YIELD STRENGTH	45 KSI MIN
HARDNESS (ROCKWELL)	B80-C32

**IDENTIFICATION SYMBOL:** F593H

### **OTHER:**

ALL BOLTS & STUDS, UNLESS OTHERWISE SPECIFIED IN THE PURCHASE ORDER SHALL BE THREADED IN ACCORDANCE WITH ANSI/ASME B1.1 UNIFIED INCH SCREW THREADS, CLASS 2A FIT. BOLT HEADS SHALL BE IN ACCORDANCE WITH THE DIMENSIONS OF ANSI/ASME B18.2.1, HEX BOLTS. UNLESS OTHERWISE SPECIFIED IN THE PURCHASE ORDER, THE HEX BOLT SERIES SHOULD BE USED. ADDITIONAL INFORMATION CAN BE FOUND IN ASTM F593 (STAINLESS STEEL BOLTS, HEX CAP SCREWS AND STUDS)

### **NUTS:**

UNLESS OTHERWISE SPECIFIED NUTS SHALL CONFORM TO ASTM F594, SHALL BE OF THE SAME ALLOY GROUP, AND SHALL HAVE A MINIMUM PROOF STRESS EQUAL TO OR GREATER THAN THE MINIMUM TENSILE STRENGTH OF THE BOLT. ADDITIONAL INFORMATION CAN BE FOUND IN ASTM F594 (STAINLESS STEEL NUTS).

**FLAT WASHERS:** ALL WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.

**Pacific Coast Bolt**