

## High Strength Structural Bolting Assemblies For Preloading

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### High Strength Structural Bolting Assemblies

This European Standard specifies together with EN 14399-1 and EN 14399-2, the requirements for assemblies of high-strength structural bolts and nuts of system HV suitable for preloaded joints with large width across flats, thread sizes M12 to M36 and property classes 10.9/10.

### BS EN 14399-8:2018 High-strength structural bolting ...

HEAVY HEX STRUCTURAL BOLTS (METRIC) Issue: 3 Date: 20/04/2015 Approved: M.R.Tiddy Page 1 of 7 A325M BOLT LENGTH TOLERANCES for BOLT DIAMETERS M16-M36 inc Nominal Length Length Tolerance Up to and including  $50 \pm 1.2$  Over 50 up to and including  $80 \pm 1.5$  Over 80 up to and

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including  $120 \pm 1.8$  Over 120 up to and including  $150 \pm 2.0$

## **High Strength Structural Bolting Assemblies for Preloading**

BS EN 15048 Non-preloaded Structural Bolting Assemblies Property Class 10.9 Issue: 3 Date: 06/12/2017 Approved: D.Briggs Page 3 of 8 BS EN 15048 10.9 Bolting Assemblies are not stock items and, therefore, Setscrews or Standard Thread Bolts may be supplied depending on availability Dimensions of Standard Thread Bolts Thread d M16 M20 M24 M30 M36

## **High Strength Structural Bolting Assemblies for Preloading**

This part of this European Standard specifies, together with EN 14399-1, the requirements for assemblies of high-strength structural bolts and nuts of system HRC suitable for preloaded joints, with hexagon head (large widths across flats) or cup head, thread sizes M12 to M30 and property class 10.9/10.

## **High-strength structural bolting assemblies for preloading**

This document specifies the general requirements for the components of bolt/nut/washer(s) assemblies for high-strength structural bolting, which are suitable for preloading, and for the assemblies themselves. Examples for components which fulfil the requirements of this document are specified in EN 14399-3, EN 14399-4, EN 14399-5 and EN 14399-6.

## **High-strength structural bolting assemblies for Licensed ...**

1.2.1 Bolts manufactured under this specification, and structural bolting assemblies supplied under this specification, are intended for use in structural connections covered in the Specification for Structural Joints Using High-Strength Bolts and installed using the torque-and-angle or part turn/combined installation method.

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## **ASTM F3148 - 17a Standard Specification for High Strength ...**

High-strength structural bolting assemblies for preloading-Part 4: This modified geometry is often referred to as heavy hex geometry. This is a standard set by the standards organization ASTM International a voluntary standards development organizations that sets technical standards for materials, products, systems, and services.

## **ASTM A325M PDF**

EN High-strength structural bolting assemblies for preloading-Part 4: Hexagon nuts for structural bolting, style 1, hot-dip galvanized over tapped —Product grades A and B—Property classes 5,6 and 8. Requirements for assemblies of high-strength structural bolts and nuts of system HR suitable for preloaded joints.

## **EN 14399-3 PDF**

This document specifies, together with EN 14399-1, the requirements for assemblies of high-strength structural bolts and nuts, with large width across flats, of system HR or HV, including the requirements for the general dimensions, tolerances, materials and performance for two grades, H8 and H10, of compressible washer-type direct tension indicators, nut face washers and bolt face washers suitable for preloaded joints.

## **High strength structural bolting for preloading**

High-strength structural bolting assemblies for preloading. The design rules in BS EN 1993-1-8 for preloaded bolted connections relate to the use of bolts in accordance with BS EN 14399. That standard has 10 separate parts; of particular note are: Part 3: System HR – Hexagon bolt and nut assemblies

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high-strength structural bolting assemblies for preloading - part 7: system hr - countersunk head bolt and nut assemblies: pren 14399-9 : draft 2015 : high-strength structural bolting assemblies for preloading - part 9: system hr or hv - direct tension indicators for bolt and nut assemblies: din en 1090-2 e : 2011

## **EN 14399-2 : 2015 | HIGH-STRENGTH STRUCTURAL BOLTING ...**

high strength structural bolt assembly, is actually far from trivial and usually involves an understanding of the manufacturing regime and reliance on various documents from the manufacturer.

## **HIGH STRENGTH STRUCTURAL BOLT ASSEMBLIES TO AS/NZS 1252:2016**

High Strength Bolts These have been used in both the Medupi Power Station and Kusile Power Station. These solutions utilize different systems (HR and HV) of bolt/nut/washer assemblies. Both systems are well proved and it is up to the experts responsible for structural bolting whether they use the one or the other system.

## **High Strength Bolts | Structural Bolting | Hammon Fasteners**

Structural bolts are specifically designed for use with heavy hex nuts in the connection of structural members (as opposed to tapped holes). The nuts for structural connections shall conform to ASTM A563 or ASTM A194. The following chart will assist in proper structural nut selection.

## **Structural Bolts | Fastenal**

In the manufacture of automobiles, metallic bolts are used in large volumes ranging in application from high strength required for structural assembly to securing lightweight parts to the vehicle. Whatever the application they are used for, testing is critical to determine if they will be suitable for the application and/or to ensure they are ...

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## **Instron Metal Bolt Testing - Instron**

DSA IR 17-9. HIGH-STRENGTH STRUCTURAL BOLTING INSPECTION: 201 9 CBC. This IR is intended for use by the DSA staff and by design professionals to promote statewide consistency for review and approval of plans and specifications as well as construction oversight of projects within the jurisdiction of DSA, which.

## **HIGH-STRENGTH STRUCTURAL BOLTING INSPECTION: 2019 CBC**

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## **High Strength Structural Steel Bolt - High Strength ...**

High strength bolted connections are a fundamental element in the construction of modern steel structures, systems, and assemblies.

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