



# CE APPROVED FOR FASTENERS

Products have being spilt into two categories ‘PRE LOAD’ and ‘NON PRELOAD’ –

**PRE LOAD (BS EN 14399)** refers to previous standards BS 4395, DIN 6914 etc these are products which should be **tightened to a specified load**.

The changeover period was until October 2007, products should now be manufactured to the new standard BS EN 14399. If products were made to BS 4395 before October 2007 they can still be sold.

**NON PRE LOAD (BS EN 15048)** refers to standards such as DIN 931, 933, 934, BS EN 4017, 4032 etc. These are products in grades 4.6-10.9 which are **not tightened to specified loads**.

The changeover period is until October 2009, products after this date should be manufactured to the new standard BS EN 15048.

In the UK companies must comply with the Construction Directive 89/106/EEC, the easiest method to do this is to have CE Approved products.

Products supplied by Andrews will come with a label showing the ‘CE’ mark, this is how you can identify that they are CE approved.

## PRE LOAD BS EN 14399 PRODUCTS –

There are currently Eight parts to this standard (soon to be Ten, part nine for Direct Tension Indicators and part ten for Tension Control Bolts will be published 2008/2009) –

|                                   |   |  |   |
|-----------------------------------|---|--|---|
| <b>BS EN 14399<br/>PART ONE</b>   | General Requirements                              | <b>BS EN 14399<br/>PART SIX</b>  | Plain Chamfered Washers                               |
| <b>BS EN 14399<br/>PART TWO</b>   | Suitability test for preloading (assembly test)*  | <b>BS EN 14399<br/>PART SEVEN</b>  | Countersunk Bolts and Nuts Assemblies HR 8.8 and 10.9 |
| <b>BS EN 14399<br/>PART THREE</b> | Hexagon Bolt and Nut Assemblies (HR 8.8 and 10.9) | <b>BS EN 14399<br/>PART EIGHT</b>  | Hexagon Fit Bolts and Nuts HV 10.9                    |
| <b>BS EN 14399<br/>PART FOUR</b>  | Hexagon Bolt and Nut Assemblies (HV 10.9)         | <b>* This standard refers to the products being CE Approved; they must pass this test to be CE Approved.</b> |   |
| <b>BS EN 14399<br/>PART FIVE</b>  | Plain Washers                                     |  |   |

In general previously in the UK products were ordered as ‘BS 4395 Part One or HSF1’ they should now be ordered as ‘PRELOAD HR 8.8/8, PT6 WASHER, PT2’ this description refers to –

- BS EN 14399 PART THREE GRADE HR 8.8 WITH A GRADE 8 NUT AND A PART SIX WASHER CE APPROVED.

On our website at [www.andrewsfasteners/detailpreload.pdf](http://www.andrewsfasteners/detailpreload.pdf) and [www.andrewsfasteners.co.uk/summarypreload.pdf](http://www.andrewsfasteners.co.uk/summarypreload.pdf) you can see a detailed and a summary comparison between BS 4395 and BS EN 14399.

Again it is important that you state ‘PRE LOAD HR 8.8/8, PT6 WASHERS, PT2’ when refereeing to CE approved new product.

## NON PRELOAD BS EN 15048 FASTENERS

There are two parts to this standard –

|                                 |                      |                                 |                  |
|---------------------------------|----------------------|---------------------------------|------------------|
| <b>BS EN 15048<br/>PART ONE</b> | General Requirements | <b>BS EN 15048<br/>PART TWO</b> | Suitability Test |
|---------------------------------|----------------------|---------------------------------|------------------|

This standard is for fasteners which are not required to be tightened to a set torque/load figure.

The standard does not state dimensions only the mechanical proprieties which are required.

In general where previously in the UK ‘DIN 933/BS EN ISO 4017 & DIN 934’ was ordered, in future –

- BS EN 15048 PT2 and then the specification you require for the dimensions should be stated.

In the case of Andrews Fasteners we will be selling –

- Set Screws - BS EN ISO 4017 Grade 8.8
- Fullnuts - BS EN ISO 4032 Grade 8
- Washers - BS EN ISO 7089/7091

These products will be the same as you previously ordered except for the Fullnuts which are now to the ISO standards instead of the DIN standards and M12 and M22 Set Setscrews which are also to the ISO standard. The ISO Fullnuts are stronger with slightly wider across flats and thicker.

### HEAD MARKINGS\*

#### **BS EN 14399 PART THREE HR 8.8**

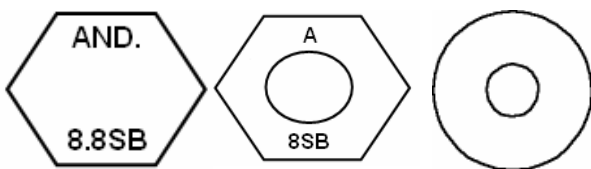


**Note - The ‘8.8 HR and 8HR’ means that the product was manufactured to BS EN 14399-3.**

#### **BS 4395 PART ONE**

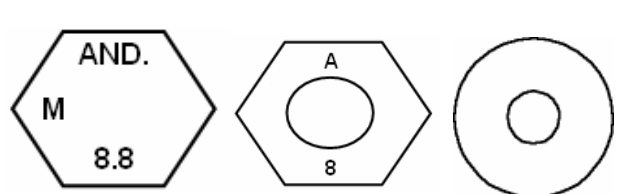


#### **BS EN 15048 GRADE 8.8**



**Note - The ‘SB’ means that the product was manufactured to BS EN 15048.**

#### **DIN 933/BS EN ISO 4017 GRADE 8.8**



**\* The majority of our products will also have the SIZE stamped on the head of the Bolt.**

This is only a summary of the differences you will see, for more information please contact our Quality Department at Andrews Fasteners Ltd –

**Telephone - 0113 246 9992      Email - [quality@andrewsfasteners.co.uk](mailto:quality@andrewsfasteners.co.uk)**