#### 6. Connections

#### 6.1 Introduction

Connections are used if a change in direction occurs or the length of the member may be inadequate.

Connections are needed to join

- -> members together in trusses and lattice girders.
- -> plates together to form built-up members;
- -> beams to beams, beams, trusses, bracing, etc. to columns in structural frames, and
- -> columns to foundations

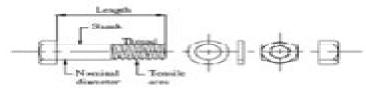
Connections may be made by bolting, welding or hybrid of bolting and welding

#### 6.2 Bolts

#### 6.2.1 Non-preloaded bolts

The ISO metric 'black' hexagon head ordinary non-preloaded bolt shown the following figure with nut and washer is the most commonly used structural fastener in the industry. The bolts and their strength grades are given below.

Strength grade	As(Mpa)	fig(Mpa)
4.6	400	240
8.8	800	640
10.9	1000	900



### 6.2.2 Direct shear joints

Bolts may be arranged to act in single or double shear, as shown in Figure 10.3.

Provisions governing spacing, edge and end distances are set out in chapter 2.

A shear joint can fail in the following four ways:

- i. by shear on the bolt shank,
- ii by bearing on the member or bolt,
- iii by shear at the end of the member, and
- iv. by tension in the member.

These failures modes can be prevented by taking the following measures:

- -> For modes (i) and (ii), provide sufficient bolts of suitable diameter.
- → Provide sufficient end distance for mode (iii).
- → For mode (iv), design tension members for effective area

# **Modern Welding 11th Edition Answers Ch 6**

**Zainul Huda** 

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