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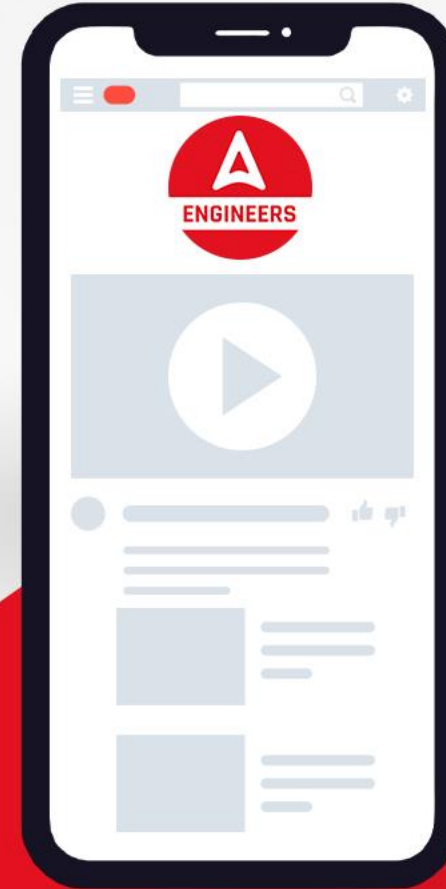


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Give the full form of HSFG.

- (a) High strength Friction Grip Bolt
- (b) High Shear Friction Grip Bolt
- (c) High Shear Friction Grade Bolt
- (d) High Strength Friction Grade Bolt

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The density of steel may be taken as

- (a) 78.5 quintal per cu.m.
- (b) 7.85 quintal per sq.m.
- (c) 78.5 quintal per sq.m.
- (d) 7.85 quintal per cu.m.

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The coefficient of thermal expansion of structural steel is take as $\times 10^{-6}$ per $^{\circ}\text{C}$

- (a) 10
- (b) 25
- (c) 12
- (d) 20

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$$E = 2 \times 10^5 \text{ MPa}$$

$$G = 0.90 \times 10^5 \text{ N/mm}^2$$

In case of structural steel construction, the minimum distance between centre of fasteners shall not be less than m times the nominal diameter of the fastener, where m is:

OR

The distance between centre of fasteners shall not be less than Y times the nominal diameter of the fastener, where Y is:

- (a) 2.0
- (b) 3.0
- (c) 2.5
- (d) 1.5

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Per the IS, what is the minimum number of rivets essential at each end?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

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If, the diameter of rivet is 25 mm or less: diameter of rivet hole will be _____ than the diameter rivet.

- (a) More than 1.5 mm
- (b) Less than 1.5 mm
- (c) More than 2.0 mm
- (d) Equal

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Tensile strength of mild steel is:

- (a) 1400 to 1800 kg/cm²
- (b) 1800 to 2500 kg/cm²
- (c) 4200 to 5400 kg/cm²
- (d) 5500 to 5700 kg/cm²

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Properties of steel can be altered by

- (a) Structural treatment
- (b) Heat treatment
- (c) Both the above
- (d) None of the above

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Pick the wrongly written assumption taken in analysis of riveted joints:

- (a) Friction in plate is negligible.
- (b) Uniform stress distribution in plates is not considered.
- (c) Bending moment is not taken into consideration.
- (d) Total load on the joint is equally shared by all rivets.

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Standard loads are given in.

(a) IS 885

(b) IS 1375

(c) IS 675

(d) IS 875

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1375 - Pencil lead

675 - waste product (stone)

Increase in the percentage of carbon content

- (a) Increases the tensile strength of steel**
- (b) Decreases the tensile strength of steel**
- (c) Increases the ductility of cement**
- (d) Has no effect on the tensile strength of steel**

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Efficiency of a riveted joint, having the minimum pitch as per IS: 800

- (a) 40%
- (b) 50%
- (c) 60%
- (d) 70%

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Which one of the following will be preferred for a column?

- (a) ISLB
- (b) ISMB
- (c) ISWB
- (d) ISHB

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A steel column in a multi-storeyed building carries an axial load of 125 N. It is built up of 2 ISMC-350 channels connected by lacing. The lacing carries a load of

- (a) 125.125 N
- (b) 12.525 N
- (c) 3.126 N
- (d) Zero

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Which of the following is not a compression member?

- (a) Strut
- (b) Tie
- (c) Rafter
- (d) Boom

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Minimum number of battens required in a battened column is

- (a) 2
- (b) 3
- (c) 4
- (d) 6

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In compression member pitch of tacking rivets at a line should not be more than:

- (a) 1000 mm
- (b) 600 mm
- (c) 650 mm
- (d) 700 mm

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In columns lap length is kept as:

- (a) Equal to development length
- (b) Greater than development length
- (c) Less than development length
- (d) None of the above

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The unit mass (kg/cum) of structural steel as prescribed by IS 800 is:

OR

As per IS 800: 2007, unit mass of structural steel (in kg/m³) for use in design, irrespective of its grade may be taken as:

- (a) 7850**
- (b) 7650**
- (c) 7750**
- (d) 7950**

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What is the recommended value of effective length for a column held in position and restrained against rotation at one end, and at the other end restrained against rotation but not held in position?

- (a) 1.20 L
- (b) 0.80 L
- (c) 1.50 L
- (d) 0.65 L

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The best arrangement to provide unified behaviour in built up steel column is by

- (a) Lacing
- (b) Battening
- (c) Tie plate
- (d) Perforated cover plate

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As per IS 456-2000, what is the recommended length of column fixed at one end and hinged at other end?

- (a) 0.70
- (b) 0.80
- (c) 0.65
- (d) 0.50

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An angle of inclination of the lacing bar with the longitudinal axis of the column should preferably be between

- (a) $10^\circ - 30^\circ$
- (b) $30^\circ - 80^\circ$
- (c) $40^\circ - 70^\circ$
- (d) $20^\circ - 70^\circ$

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According to IS: 456-2000 side-face reinforcement should be provided when depth of web of a beam exceeds.

- (a) 650 mm**
- (b) 700 mm**
- (c) 725 mm**
- (d) 750 mm**

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The clear distance between the lateral restraints for a simply supported or continuous beam to ensure lateral stability should not exceed:

- (a) $60 b^2$ or $250 b^2 / d$
- (b) $60 b$ or $250 d^2 / b$
- (c) $60 b$ or $250 b^2 / d$
- (d) $60 b$ or $250 b^2 / d$

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As per IS 456, the effective length of cantilever shall be taken as

- (a) Clear span
- (b) Clear span + effective depth/2
- (c) Clear span + effective depth
- (d) Clear span + effective width

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In a doubly reinforced rectangular concrete beam, the distance between the centroids of compression and tension reinforcement is generally known as:

- (a) Lever Arm
- (b) Neutral axis depth
- (c) Neutral Arm
- (d) Critical axis depth

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A doubly reinforced beam is considered less economical than a singly reinforced beam because:

- (a) Shera reinforcement is more
- (b) Compressive steel is under stressed
- (c) Tensile steel required is more than that for balanced section
- (d) Concrete is not stressed to its full value

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Which of the following is the type of roof which slopes in two directions with a break in the slope on each side?

- (a) Gable roof
- (b) Gambrel roof.
- (c) Hip roof
- (d) Mansard roof

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Which of the following is the type of roof which slopes in two directions with a break in the slope on each side?

- (a) Gable roof
- (b) Gambrel roof
- (c) Hip roof
- (d) Mansard roof

Types of roofs



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Mangalore Tiles belong to the category of

- (a) Concrete tiles
- (b) Slate tiles
- (c) Burnt clay tiles
- (d) Mosaic tiles

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According to the Indian Standard Institution (ISI), what is the size of a A3 sheet in mm?

- (a) 189×841
- (b) 297×210
- (c) 841×594
- (d) 420×297

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According to the Indian Standard Institution (ISI), what is the size of a A3 sheet in mm?

(a) 189×841

(b) 297×210

(c) 841×594

(d) 420×297

$$A_0 = 1189 \times 841 \text{ mm}$$

$$A_1 = 841 \times 594$$

$$A_2 = 594 \times 420$$

$$A_3 = 420 \times 297$$

$$A_4 = 297 \times 210$$

$$A_5 = 210 \times 149$$

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In roofing sheet terminology, CGI means

- (a) Corrugated Grating Iron
- (b) Coated Grating Iron
- (c) Corrugated Galvanized Iron
- (d) Coated Galvanized Iron

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