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Structural Fasteners' Details Design of Steel Structures









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Gross sectional area of a joint is

- a. Area of threaded portion of bolt
- b. Area of unthreaded portion of bolt
- c. Area of roots of threads
- d. None of the above

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Regarding 'net effective c/s area', select the correct statement/s

- It is denoted by A_n
 It is the c/s area at the root of threads
- 3. It is the c/s area at the root of threads
- 4. It is taken as $0.78* A_g$
- a. 1 & 3 b. 1,3 & 4 c. 1,2 & 4 d. 2,3 & 4

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The distance between centres of any 2 adjacent holes in the direction of stress is called as

- a. Lap b. Span
- c. Pitch
- d. Any of the above

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In case of tension members, pitch should not exceed

- a. 16*thickness of thinner plateb. 200 mm
- c. Larger of a. and b.
- d. Smaller of a. and b.

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In case of compression members, pitch should not exceed

- a. 12-thickness of thinner plate
- b. 200 mm c. Greater of a. and b.
- d. Smaller of a. and b.

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Minimum pitch that should be provided is

- a. 3.5d
- b. 2.5t
- c. 2.5d
- d. 4.5d



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nominal diameter of structural fasteners

- 1. For rivets, nominal diameter is diameter after riveting
- For rivets, nominal diameter is diameter before riveting
- 3. For bolts, nominal diameter is diameter unthreaded portion of shank
- a. 1 & 3, b. 1 & 2, c. 2 & 3, d. 1,2 & 3

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Regarding gross diameter of structural fasteners, which one of the following statement is right?

- a. For bolts, nominal and gross diameter are same
- b. For rivets it's diameter after rivetingc. Both a. and b.
- d. None of the above

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