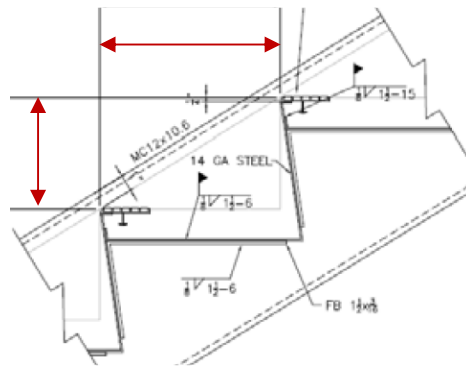


HW7

- 1 What are the two common types of high strength steel bolts?
- 2 Draw a bolt and label the head/grip/washer/nut.
- 3 Why is 0.707 used in the strength calculation of a fillet weld?
- 4 What is the ASD shear capacity of a single 3/4 A325N bolt (bolt shear only)?
- 5 What are the required tread and riser dimensions for the IBC and IRC? Why is it important to have a tread of this dimension – that is, what is the safety issue, going up the stair, down, toe or heel etc?



- 6 What is the minimum width of a landing? What is the vertical clearance to the ceiling from stairs?
- 7 When is a guardrail required? Does the guardrail need to have a continuous member at the top?
- 8 For a guard railing main post that is spaced at 4ft on center, does a 1.25" Square Bar (A36) work in bending for the loading requirements? Assume 42" high similar to bar rail below.

