

CVEN 4545 Design Review

Decks

A separate review is made for each deck D1, D2, D3.

Decks are independent. Design choices in one deck do not affect design choices in other decks. Design errors in one deck do not create design errors in other decks.

Feedback

Feedback, is provided in four parts:

- Admissible / Not Admissible
- OK / NG
- Consistent/ Not Consistent
- Score

Admissible/ Not Admissible

An *Admissible* design meets requirements for strength, and meets limits on deflection, and is reasonably close to least count or least weight, as required.

A *Not Admissible* design fails to meet requirements for strength, or fails to meet limits on deflection, or fails to be reasonably close to least count or least weight.

Feedback

Your designs for D1, D2, and D3 are identified as admissible or not admissible. If a design is not admissible, a reason is reported. This report may not be complete. Other design flaws may exist.

Remedies

If your design is admissible, don't change it. Your further work in the project may reveal other, better designs. But any admissible design is good enough. Keep it.

If your design is not admissible, you must change it. Begin with the flaw noted in feedback, and also make a complete re-check of all items in your design.

OK / NG

For *Admissible* designs, numerical quantities are checked. Values are right or wrong. Precision is checked.

Feedback

Each numerical value is identified as *OK* or *NG*.

Remedies

For any *NG* values, re-do your work. You've got an error. But don't change your design. *NG* is about computation, not about design.

Consistent / Not consistent

For *Not Admissible* designs, numerical quantities are checked. A *Consistent* value means that the computation is right, even though the design is not. A *Not Consistent* value means that the computation is wrong.

Feedback

Each numerical value is identified as *Consistent* or *Not Consistent*.

Remedies

First, revise your design. Then update your *Consistent* values; a new design will have new values. Then fix your work for *Not Consistent* values.

Score

Each deck D1, D2, D3 gets a score. For *Admissible* designs, scores are based on the count of correct numerical values. For *Not Admissible* designs, scores are zero.

The overall score for the submission is the average of the scores for individual decks.