

Design Problem Number: \_\_\_\_\_

**CLARKSON UNIVERSITY**  
**ES220 Statics**  
**Peer Review Design Problem Rubric**

Instructions:

The goal of the peer review process is to determine if:

- A) Sufficient information was provided to build and analyze the proposed design(s)
- B) The analyses were correctly performed
- C) The analyses confirm that the design satisfies the design constraints or requirements

Therefore, your review will focus only on items 2, 3, 4 and 6 from the full Design Rubric. The instructor and graders will evaluate the other items listed in the Design Rubric.

Staple the completed form to the front of the design document.

Complete the checklist on the page two of this form.

\*\*\*\*\*

**Check one box:**

- (I) We found no errors or omissions in the design document**
- (II) We did find errors and/or omissions in the design document  
(see instructions below)**

\*\*\*\*\*

**If you checked box (II):**

- **Mark-up the design document using red pen.**
- **For each error or omission:**
  - **Circle the error or omission**
  - **Clearly write a comment regarding what is erroneous or incorrect**

\*\*\*\*\*

Review Team Number \_\_\_\_\_

Names (print):

Lead External Reviewer \_\_\_\_\_

Team Member \_\_\_\_\_

Team Member \_\_\_\_\_

Team Member \_\_\_\_\_

*I reviewed the document, I agree with the review comments and I can explain them.*

Signatures:

Lead External Reviewer \_\_\_\_\_

Team Member \_\_\_\_\_

Team Member \_\_\_\_\_

Team Member \_\_\_\_\_

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Below are the items you should look for in your review. If the item is satisfied, then check the box. If not, then write a *brief* comment below the item regarding what is erroneous or missing. If the item is not needed, write N/A (not applicable).

**2. Design Specifications**

- Includes specifications from assignment handout
- Provides additional specifications determined by the team for the selected design
- Explains/justifies any assumptions

**3. Design Drawings**

- Provides drawings for all design elements; properly labeled, titled, and dimensioned
- Neatly drawn with a straight edge (including dimension lines)
- Large enough to be easily read (approximately ½ page each for primary drawings)
- Drawn to scale; provide scale
- No missing or erroneous dimensions, angles or units

**4. Calculations and Analyses**

- Formulae are appropriate for the required analyses
- Provides symbolic equation, then substitutes numerical values
- Uses proper units; conversion factors included if needed
- Provides additional sketches (e.g., FBD's) needed to perform analyses (must be drawn with a straight edge)
- No substitution or calculation errors
- Uses final design parameters in calculations to determine actual values
- Explains/justifies any assumptions