

Group #07

Bridge-00

18g, 1700N



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1 Design

1.1 Assumptions

During the design process, the following assumptions have been made (R. C. Hibbeler, p. 264):

1. All loadings are applied at the joint,
2. Weight of the members neglected,
3. Joints are smooth (friction-less) pins,
4. Each member has no more than two joints.

Final bridge design can be seen in Figures 1 and 2.

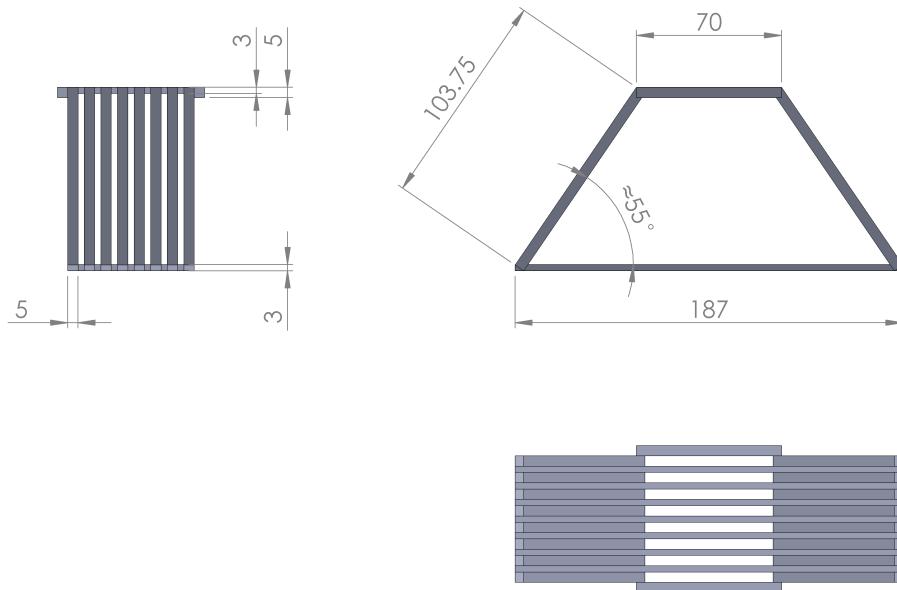


Figure 1: Dimensioned drawing.



Figure 2: 3D-Projection.

2 Analysis

3 Results

References

Kai Benh Yap R. C. Hibbeler. *Mechanics for Engineers: Statics*. Pearson.