

Model Bridge Building Contest Specification and Details

A. Problem:

The model will have an overall dimension of 406mm long by 152mm high by 32mm wide. Loading will be accomplished through 5 hydraulic cylinders, one at the center line, 2 spaced 102mm from the center line and 2 spaced an additional 95mm from the center line as show in the sketch at the bottom of the page.

B. Specification:

- i. Materials: Bridges shall be constructed using only the following materials.
 - a. Eleven 914mm pieces (10,054mm) of 2.4mm square balsa wood sticks. The wood may be selected from one or two kits, but the wood must be randomly placed in kits by the teacher or assistant.
 - b. Two pine base-blocks (6 x 19 x 32mm). These blocks may be notched to accept the bridge members if desired, but may be used only for base blocks. They may not be extended.
 - c. One piece of No. 300 medium weight illustration board cut 32 x 406mm. This board may be used only for the deck.
 - d. The contents of one 5/8 oz. tube of TE 3505 Testors glue.
 - e. No bridge may be painted, but excess glue may be smeared on bridge members.

C. Certification: Winner must be willing to certify that they have complied with the above specifications and have used only materials as furnished in the kits by USU.

