

2012 Region 5/9 Conference

HS & MS Structural Specifications

2012 Middle School structure: Beam length = 8" (+ or - .250")
Beam width = 1.5" (+ or - .125")
Beam height = 2" (+ or - .125")

Test block is: 3/4" thick X 2-3/4" wide X 4" long with a 1/2" hole drilled at center.

- 2012 structure will be rated on **greatest weight held**.
- Come with your structure in hand and **completed**. No time is given to construct at the regional site.
- No Sketch/drawing is required.
- Be sure to have proper clearance for 1/2" rod through the center of your structure.
- Use no more than **20 ft of 1/8" X 1/8" Balsa Wood!**
- Do not use excessive amounts of glue.

DOWNWARD PULL TEST (BREAKER) BLOCK BEAM ABUTMENT SPAN ABUTMENT TESTING DEVICE

2012 High School structure: Tower height = 10" (+ or - .125")

There is no set tower thickness or width. However, the tower must be **attached** to the 1/4" X 3" X 3" **load plate** at its **bottom**. In addition, a 3/4" X 3-1/2" X 3-1/2" test block will be placed on top of the structure and the structure must fit inside a 10" dia. acrylic cylinder.

- Your structure will be rated on **greatest efficiency** (weight held divided by the weight of structure).
- Come with your structure in hand and **completed**. No time is given to construct at the regional site.
- No Sketch/drawing required.
- Be sure to provide proper clearance for 1/2" testing rod through the center of your structure.
- Use no more than **20 ft of 3/32" X 3/32" Bass Wood!**
- Do not use excessive amounts of glue.
- **Bring 1/4" X 3" X 3" piece of wood/plywood for the load plate with a 1/2" hole drilled at center!!!!**
- **Bring CA glue to attach the structure to the load plate after the structure has been weighed and checked in and approved by the judges.**

DOWNWARD PULL TEST (BREAKER) BLOCK TOWER LOAD PLATE TESTING DEVICE