BRIDGE B/C

Team Checklist – 2022

Rank: _____
Tier: _____
Final Score: _____

Team Number: _____ School & Team Name: _____

Student Names: _____

CHECK-IN & TESTING (6 MINUTES TO SET UP AND TEST BRIDGE)

1. _____		5.Part I.c.	Team's submitted **Estimated Load Supported** in grams (used as first tiebreaker)
2. T F		7.d.ii.	Design Log is present and completed. (If false, team is placed in Tier 2.)
3. T F		7.d.iii.	Bridge is able to be loaded (e.g. can accommodate and hold Loading Assembly, participants wear eye protection). (If false, team does not test and is placed in Tier 3.)
4. _____		5.Part I.b.	**Mass of Bridge** (in grams to the nearest 0.01 g or best precision available)

Construction & Competition Parameters:

T	F	2.a.	Team enters only one Bridge, built prior to the competition.
T	F	2.c.	Participants do not bring any equipment such as levels or squares.
T	F	3.a.	The Bridge is a single structure with no separate, loose, sliding, or detachable pieces.
T	F	3.a.i-iii.	The Bridge is constructed of wood and bonded by adhesive with no other materials used. Besides ink barcodes or markings from the construction process, the wood is not painted, soaked or coated in glue, color enhanced, or affixed with tape/preprinted/paper labels. Adhesive tapes are not used.
T	F	3.f.	Students are able to answer questions regarding the design, construction, and operation of the device.
T	F	5.Part I.d.	Alterations, substitutions, and repairs are not made to the Bridge after the check-in process is started.
T	F	5.Part II.a.	Once participants enter the event area to compete, they do not leave or receive outside assistance, materials, or communication until they are finished competing.
T	F	5.Part II.c./ 6.d.	Participants place the Structure on the Test Supports within the Bearing Zone of the Test Apparatus and they place the Loading Assembly to load the Structure. The bucket is mounted to allow enough clearance above the floor for the bucket to tilt or the structure to deflect.
T	F	3.b./ 5.Part II.e.i.	The Bridge sits on top of the Test Supports and support the Loading Block of the Loading Assembly at the center of the spanned opening.
T	F	3.c, 3.d/ 5.Part II.e.ii.	The Bridge holds the Loading Block at the Loading Block Height of 10 cm (Div B) or 15 cm (Div C) above the Test Supports. The Pass Thru Block (7cm x 4cm Div B, 12cm x 7cm Div C) is able to pass horizontally through the Bridge, under the Loading Block position, from one end of the Bridge's Test Support point to the adjacent Test Support point.
T	F	3.e./ 5.Part II.e.iii.	Before loading, no portion of the Bridge is below the plane defined by the top of the Test Supports.
T	F	5.Part II.d.	Once loading of sand has begun, the Structure is not further adjusted.
T	F	5.Part II.f.	Participants do not directly contact the bucket and only stabilize the bucket by using the tips of the provided Bucket Stabilizing Sticks.

5. T F		**ALL CONSTRUCTION AND COMPETITION PARAMETERS ABOVE ARE MET (IF FALSE, TIER 2)**
6. _____	5.h.	**Load Supported** (mass of Loading Assembly and sand in bucket, in grams; up to 15,000 g)

7.a. **SCORE = (** _____ **/** _____ **) =** _____
Load Supported (g) + Bonus | Bridge Mass (g)

7.d. Tier 1: holding any load and meeting all construction parameters and competition requirements;
Tier 2: holding any load with any violations of construction parameters and/or competition requirements;
Tier 3: unable to be loaded (e.g. cannot accommodate or hold Loading Assembly, no eye protection worn)

7. T F		General Rule: The team is disqualified. (Notify the team and their coach as soon as possible.)

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