

Spaghetti Bridge Conditions

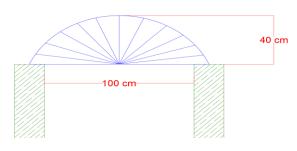
Members: Maximum 4 members

Material

- Pasta: commercially available or homemade pasta, made solely of flour. The pasta may be shaped, molded or boiled in water, but no additives are allowed.
- Commercial glue or epoxy shall be the only joining material and may not be used as a structural member.
- It is intended that glue be used for joints only; continuous strands of glue running along the length of any member are not allowed

Loading Platform

- An 100mm x 50mm x 10 mm plate with a centrally drilled 9 mm bore.
- The loading platform is to be positioned under the pathway, in the middle of the bridge.
- The maximum vertical depth of the bridge from the highest point to the lowest point shall not exceed 400 mm.
- The bridge must span a distance greater than 1.00 m (the end supports are 1.00 m apart and on the same level so a bridge 1.00 m in length would fall through between the supports).



• The maximum allowable mass of the bridge, including the heavyweight loading platform and U-bolt, will be 1500 grams.

Road Deck

- To provide a suitable road surface, the bridge must have a solid, continuous pasta road deck that is at least 50 mm wide and covers the full length of the bridge.
- Gaps in the bridge deck are not to exceed 2 mm.
- The deck of the bridge must be uniform in width

Bridge Loading and Support

- The support for the bridge shall be from the top of the level surfaces of the end supports only.
- The vertical edge of the supports shall not be used as a support in any way

JUDGING

- Bridges will be inspected and weighed by the judges prior to testing to ensure all bridges comply with the rules. Bridges failing inspection will be disqualified.
- The load will be applied to the U-bolt of the heavyweight loading platform that is located at mid-span of each bridge. The load will be progressively increased until failure occurs.
- Bridges may not be touched while under load.
- In the event that two bridges fail at the same load, the lighter bridge will be ranked higher than the heavier one.

ON ALL MATTERS, THE JUDGES' DECISION SHALL BE FINAL. The judges have the right to disqualify any bridge that in their opinion is in violation of the intent or letter of the rules. The judges have the right to accept any bridge that in their opinion is consistent with the rules.