

University of South Alabama Civil Engineering Department

Rules and Regulations For Concrete Ladder Golf



Presented by the Student Chapter of the American Society of Civil Engineers
at the University of South Alabama
for the USA-ASCE High School Competition
Rules Updated September 2022.

Concrete Ladder Golf

Requirements

Each school will provide 6 bolas and a ladder made of schedule 40 PVC. Students will compete in a ladder golf tournament. The matchup will be chosen at random. Judging will be based on concrete mix design and scoring in the tournament.

Players

Each school should provide a minimum of 2 players (one team). A team consists of 2 players, however 4 students may be selected for substitution.

Specifications

- Both connecting spheres on the bolas must conform to a minimum diameter of 1.68 inches and a maximum diameter of 2 inches.
- Each Bola must be symmetrical in dimensions and weight
- The weight of each ball on the bola must weigh a minimum of 45.9 grams and a maximum of 65 grams.
- The connecting string must have a minimum length of 12 inches and a maximum length of 18 inches.
- The string used must not have an elastic nature of stretching 2 or more inches past its original length.
- If the bolas fail to meet these requirements then the team will be disqualified per judges discretion.

Ladder specifications

- Ladder stands shall meet standard size specifications.
- The width will be 22-26 inches
- The height will be 37-41 inches
- Spacing between each scoring rack will be 11-15 inches
- There should be 3 scoring racks

Submittal Dates

- A mix design sheet shall be submitted by February 1, 2023.
- Bolas will be submitted upon arrival

Concrete Mix Specifications

- Fly Ash, cement, fibers, aggregates, admixtures
- Aggregates may include any natural, manufactured, or recycled material.
- Admixtures such as Water-Reducing (Normal, Mid-Range, and High-Range), Set-Controlling Admixtures, Air-Entraining Admixtures, Coloring Admixtures/Agents and Concrete Pigments, and Polymer Modifiers are permitted.
- Specialty Admixtures such as, but not limited to, shrinkage reducers, integral capillary water proofers, and viscosity-modifying admixtures are permitted

Aesthetics

Decorating bolas and ladder stands is not mandated, however it is highly encouraged. Ensure the school name is on the container for the bolas.

- Bolas may be decorated as desired and are not required to be uniform.
- One coat of paint is allowed with one coat of transparent sealer.
- Coatings may not be used to strengthen concrete.
- Adhesives or loose items may not be attached to the bola.

Tournament Rules

Teams will be paired at random on the day of the competition. The matchmaking will work on double elimination once the first matches are played.

- Point system: bottom rung (1 point); middle rung (2 points); top rung (3 points)
- Point counting: a game is won at 21 points, if both teams score the same number of points in a round then no points are scored. (Ex: team one scores 6 points after throwing their 3 bolas, team 2 then scores 6 points with their 3 bolas. The round ends with neither teams scoring)
- If a team's bola manages to knock another bola off of the ladder that fallen bola no longer counts for a score.
- The ladders will be set up 15ft away from the throwing line.

*Safety and sportsmanship: should a team show poor sportsmanship the judge may disqualify that team. Should a team (or a student from a school) throw a bola directed at a person, that team/school will be disqualified and the bolas confiscated until the end of the competition.

Scoring

Category	Requirements	Score
Tournament placement	First place (40), second place (35), third place (30), fourth place (25), etc...	