

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 2024.

## Concrete Ladder Golf

### Requirements

Each school will provide 6 bolas. 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 is consisted of 2 players; however, 4 students may be selected for substitution.

### Bola Specifications

1. Both connecting spheres must be made of concrete and conform to a minimum diameter of 1.68 inches and a maximum diameter of 2 inches.
2. 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.
3. The connecting string must have a minimum length of 12 inches or 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.

### Submittal Dates

Bolas will be submitted upon arrival.

## Concrete Mix Specifications

The concrete mix shall consist of the following materials:

1. Fly Ash, cement, fibers, aggregates, admixtures
2. Aggregates may include any natural, manufactured, or recycled material.
3. 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.
4. Specialty Admixtures, such as but not limited to, shrinkage reducers, integral capillary water proofers, and viscosity-modifying admixtures are permitted.

## Aesthetics

Decorating bolas is not mandated, however it is highly encouraged! Ensure school name is on 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 match making will work on double elimination once the first matches are played.

Point system: bottom rung (1); middle rung (2); top rung (3)

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 team scoring.)

If a team's bola manages to knock another bola off the ladder that fallen bola no longer counts for a score.

The ladders will be set up 15 ft. 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.