



*Ready to compete?*

# CONCRETE CORNHOLE COMPETITION

Regional – There is no advancement to a Society-wide national competition for this competition.

## Overview

Each school will bring a concrete corn hole board to be judged and to be used in a double elimination bracket tournament. Judging will be based on the performance of teams during the tournament, aesthetics, and technical components of the mix and board.

## Eligibility

Each school may have one (1) team with two (2) to four (4) students. Only two (2) members can play at a time. Each team shall have a designated captain.

## Board Dimensions

- The board is to be four (4) feet in length and two (2) feet in width.
- The hole will be six (6) inches in diameter and the center will be located one (1) foot from either side and nine (9) inches from the top edge (refer to Figure 1). All dimensions shall have an allowable tolerance of  $\pm 0.25$  inches.
- There are no minimum or maximum thickness requirements for the board.

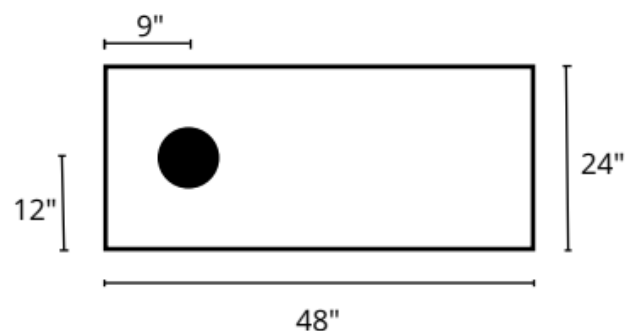


Figure 1. Board Dimensions



## Cornhole Bags and Support Structure

- The cornhole bags and support structure for the tournament will be provided by the host.
- The cornhole bags will be 6 inches by 6 inches and weigh approximately 15 oz.
- The support structure, constructed from 2x4s with a lip at the bottom to support the concrete board.

## Board Aesthetics

- Teams may choose to decorate their board as they choose.
- The name of the team's university must be displayed on the board.
- Stickers/decals are not permitted.

## Mix Design

Failure to adhere to the specified mix criteria will result in a 15 point deduction from the technical sub-total

- Cementous Material: Teams are permitted to use only the following cementitious material as long as they adhere to the ASTM standard for the material:
  - Portland or Hydraulic Cement (ASTM

C150/C595/C1157)

- Fly Ash (ASTM C618)
- Slag Cement (ASTM C989)
- Silica Fume (ASTM C1240)
- The water to cementitious materials ratio (w/cm) must be 0.35 or greater.
- Aggregate: Aggregates must pass a ½ inch (12.7 mm) sieve and be retained on a #200 sieve. The mix must contain at least 30% aggregate by volume.
- Admixtures: Chemical admixtures that meet ASTM C494 and/or ASTM C260 are allowed. No other admixtures will be permitted.
- Reinforcement
  - Teams are allowed to use fiber reinforcement (ASTM C1116) or reinforcement grid.
  - No "bar" type reinforcement is allowed (including but not limited to: aluminum, steel, basalt, etc.)

## Technical Report

Technical reports must be 750 words or less. Technical reports must have a cover page including: name of regional competition "Concrete Cornhole," team member names,



representative university, Technical report must follow the criteria in the Technical Paper rubric.

Teams will complete the provided Mix Design Spreadsheet. The Mix Design Spreadsheet must be submitted with the technical report. The report should be submitted here: <https://forms.gle/fEapW33uyb7qV8nR6>.

[CLICK HERE FOR LINK](https://forms.gle/fEapW33uyb7qV8nR6)

## Tournament Style and Game Play

Teams will be assigned to a double elimination bracket at random.

Each game will be played to twenty-one (21) points; the first team to reach or exceed 21 points will be declared the winner. A round consists of one (1) player from each team throwing all four (4) bags. Each game will consist of as many rounds as it takes for one team to reach at least 21 points with a margin of victory of at least 2 points.

Bags that land on the board and stay on the board are worth one (1) point. Bags that go through the hole are worth three (3) points. Bags that bounce onto the board from the ground do not count and must be removed before the next bag is thrown. Bags that were on the board and pushed off by another bag do not count (unless they have been pushed into the hole). At the end of the round, points will be totaled for each team, and the difference of the teams' points will be

awarded to the team that had the highest score.

For the first round, the team with the higher seed number will go second. The team that scored the previous round will start the following round. If no points were scored in a round, the team to score the last points goes first. Team members will be on alternate sides of the pitch and stay in the same lane. Players will alternate throwing bags (one at a time) until each player has thrown all four (4) of his or her bags. Bags must be thrown underhand. If a player crosses outside of the pitcher's box, that bag does not count and cannot be re-thrown.

## Judging

1. Aesthetics (20 points) – Board aesthetics will be judged based on creativity, originality, and overall quality of design. Each team is eligible to receive 20 points based on aesthetics. Use of stickers or decals will result in a deduction of 10 points.
2. Technical Subtotal (20 points) – Teams will be ranked based on board thickness with the thinnest board receiving the entire 20 points. All other points allotted will be linearly determined in descending order. The board must remain in playable condition throughout the tournament. If the board breaks, the full point value awarded for thinness will be revoked.
3. Technical Report (25 points) – Teams will submit a 750 word or less technical report



and a completed Mix Design Spreadsheet. The report will be scored according to the Technical Report rubric.

4. Game Play (20 points) – Teams will be ranked based on the finishing position in the tournament. The first-place team will be awarded 20 points. All other points will be linearly determined in descending order.

In the event of a board failure, the team with an unplayable board will be disqualified. Teams are eligible to receive up to 85 total points.

Final Score = (Aesthetics + Technical Subtotal + Technical Report + Game Play)

## Important Dates

- Release of Student Symposium Competition Rules and Regulations on October 1, 2023.
- Technical Reports Due by 11:59 PM EST February 26, 2024 through this link: <https://forms.gle/fEapW33uyb7qV8nR6>

[CLICK HERE FOR LINK](#)

- 2024 Southeast Student Symposium Regional Competition March 21-23, 2024 in Orlando, FL.
  - Competition time and location will be released closer to event.

## Questions

Requests for information (RFI) must be sent to [24southeastsym@gmail.com](mailto:24southeastsym@gmail.com) with the subject line "Concrete Cornhole RFI".



Judge Name

University Name

## Concrete Cornhole – Technical Report Rubric

|              |  |            |
|--------------|--|------------|
| 1.           | Word count (750 words or less) AND Mix design table was included | /2         |
| 2.           | Paper is logically organized and free of grammatical errors      | /2         |
| 3.           | Description of aesthetic theme/design                            | /3         |
| 4.           | Reasoning for thickness chosen                                   | /3         |
| 5.           | Description of materials used                                    | /3         |
| 6.           | Reasoning for mix design materials used                          | /3         |
| 7.           | Reasoning for mix design proportions                             | /3         |
| 8.           | Description of construction process                              | /3         |
| 9.           | Discussion of innovative design components                       | /3         |
| <b>TOTAL</b> |  | <b>/25</b> |

School Name

Faculty Advisor Name

Team Captain Name

| Component              | Type | Amount Used<br>(lb) | Volume Used<br>(ft <sup>3</sup> ) | Density<br>(lb/ft <sup>3</sup> ) |
|------------------------|------|---------------------|-----------------------------------|----------------------------------|
| Cement                 |      |                     |                                   |                                  |
| Cementitious Materials |      |                     |                                   |                                  |
| Aggregate              |      |                     |                                   |                                  |
| Chemical Admixtures    |      |                     |                                   |                                  |
| Reinforcement          |      |                     |                                   |                                  |
| Water                  |      |                     |                                   |                                  |
| <b>TOTALS</b>          | ---  |                     |                                   |                                  |