



# CONCRETE CORNHOLE COMPETITION

## 1. OBJECTIVE

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

## 2. 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.

## 3. DESIGN

### 3.1 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.

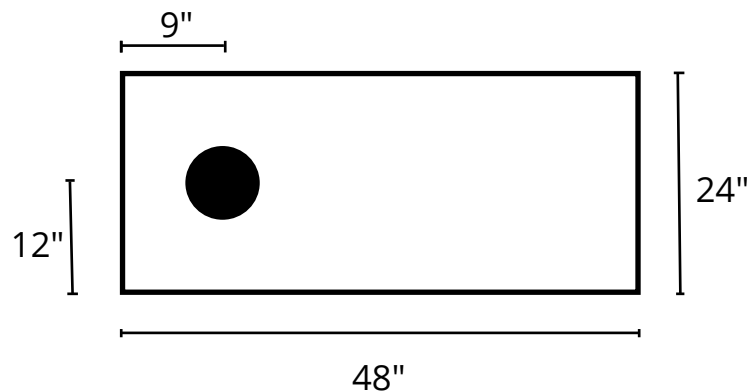


Figure 1. Board Dimensions

### 3.2 CORNHOLE BAGS

- Will be provided by the University of Central Florida.
- They will be 6 inches by 6 inches and weigh  $15 \pm 1$  oz.

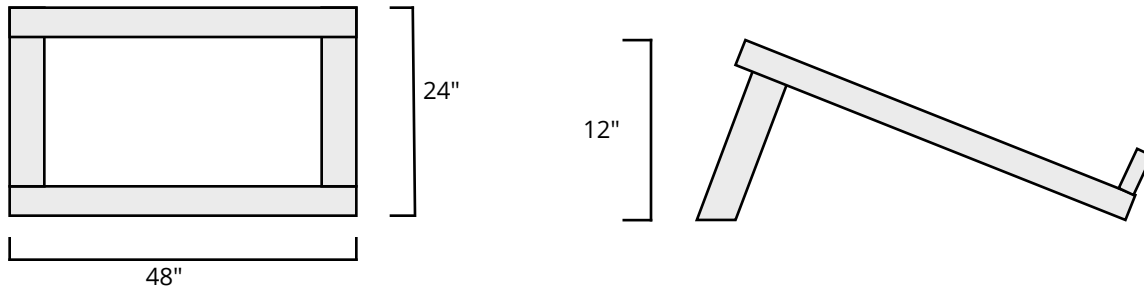




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## 3.3 CORNHOLE BOARD SUPPORT STRUCTURE

- A support structure for the boards will be provided by the University of Central Florida.
- Details for support boards are provided below.



## 3.4 BOARD AESTHETICS

- Teams must choose an olympic event as the theme of their board design.
- The board can be finished with any variety of textures, stains, and sealers.
- The name of the university you represent must be displayed on the board.
- Stickers/decals are not permitted.

## 3.5 MIX DESIGN

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

### 3.5.1 CEMENTITIOUS 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.

### 3.5.2 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.





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## 3.5.3 ADMIXTURES

Chemical admixtures that meet ASTM C494 and/or ASTM C260 are allowed. No other admixtures will be permitted.

## 3.6 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.)

## 4. TECHNICAL PAPER

### 4.1 TECHNICAL REPORT

a. Technical reports must be 750 words or less.

b. Technical reports must have a cover page including: name of regional competition "Concrete Cornhole," team member names, representative university.

c. Technical report must follow the criteria in the technical paper rubric.

### 4.2 MIX TABLE

Teams will complete the given Mix Design Spreadsheet.

Mix Design Spreadsheets must be submitted with the technical report.

## 5. SCORING

**5.1 GAME (30%):** Teams will be ranked on bracket placement with ties being decided by team's overall points won during the tournament.

**5.2 TECHNICAL SUBTOTAL (35%):** 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.

\*Teams will have 5 points deducted from the technical subtotal per failure to meet the specified board dimension. (5 dimensions checked: Length, Width, Hole Diameter, Distance to edge, Distance to top)

**5.3 TECHNICAL PAPER (25%):** Teams will submit a 750 word or less technical paper and a completed mix design form.

**5.4 AESTHETICS (10%):** Teams will be judged on the aesthetics of their cornhole board and must follow the guidelines presented in section 3.4. Aesthetics will be assessed by a panel of judges and points will be awarded through a rating scale of 1-10.

## 6. QUESTIONS

Direct any questions to [conference organizers](#). Answers will be posted on the Q&A page.

