

Gill Athletics, Inc.

742115 – NCAA HAMMER AND DISCUS CAGE, DOUBLE CAGE

SECTION 11 68 33.43

NCAA HAMMER AND DISCUS CAGE

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. NCAA Hammer and Discus Cage

1.02 RELATED SECTIONS

- A. Section 31 23 00 Excavation and Fill.
- B. Section 03 30 00 Cast-in-Place Concrete.
- C. Section 32 18 23 Athletic Surfacing.
- D. Section 32 12 16 Asphalt Paving.

1.03 REFERENCES

- A. NFHS – National Federation of State High School Associations (NFHS)
- B. NCAA – National Collegiate Athletic Association (NCAA)
- C. IAAF – International Association of Athletics Federations (IAAF)
- D. FIFA – International Federation of Association Football
- E. FIBA – International Basketball Federation

1.04 DESIGN REQUIREMENTS

- A. NCAA Hammer and Discus Cage: Locate positions of NCAA Hammer and Discus Cage on the site plan.
- B. Verify that site conditions are adequate to support loads imposed by NCAA Hammer and Discus Cage.

1.05 SUBMITTALS

- A. Comply with Section 01 33 00 – Submittal Procedures.
- B. Product Data: Submit manufacturer's product data, including materials, components, fabrication, finish, and installation instructions.
- C. Operation and Maintenance Manual: Submit manufacturer's operation and maintenance manual; including operation, maintenance, adjustment, and cleaning instructions; trouble shooting guide; parts list.

1.06 QUALITY ASSURANCE

- A. Single Source Responsibility: Provide NCAA Hammer and Discus Cage from single manufacturer.
- B. Manufacturer's Qualifications: Minimum of 5 consecutive years of experience manufacturing Cage similar to that specified.
- C. Installer's Qualifications: Contractor experienced with track & field installation, concrete work, asphalt paving, and track surfacing.
- D. Regulatory Requirements: NCAA Hammer and Discus Cage shall conform to latest rules and regulations.
 - 1. National Federation of State High School Associations (NFHS).
 - 2. National Collegiate Athletic Association (NCAA)
 - 3. International Association of Athletics Federations (IAAF)
 - 4. International Federation of Association Football (FIFA)
 - 5. International Basketball Federation (FIBA)

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Storage: Store materials in clean, dry area indoors in accordance with manufacturer's instructions. Keep temporary protective coverings in place.
- C. Handling: Protect materials and finish from damage during handling and installation.

1.08 WARRANTY

- A. Provide 5-year warranty against defects in materials and workmanship, unless otherwise specified.

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Manufactured and Supplied by:

Gill Athletics, Inc.
601 Mercury Drive
Champaign, Illinois 61822
Toll Free (800) 637-3090
Phone (217) 367-8438
Fax (217) 367-8440
Web Site www.gillathletics.com
E-Mail sales@gillathletics.com

2.02 742115 – NCAA HAMMER AND DISCUS CAGE, DOUBLE CAGE

A. COMPONENTS:

1. Net Poles

- a. Consists of eight (8) net poles
- b. Constructed of 3 1/2" Schedule 40 (4" OD) aluminum pipe
- c. Net poles will be off-set and stand at least 21'-6" tall when installed in the ground sleeves
- d. Net poles will have rope tie-off cleats
- e. The top of the net poles will be capped
- f. Net poles will have holes for installing hardware to hang the net from

2. Door Poles

- a. Consists of two (2) 4" OD x 8ga galvanized steel poles
- b. Stand at least 21' tall when installed in the ground sleeves
- c. Door poles will have steel door hinges with stainless steel hinge pins and bronze thrust bearings, and rope tie-off cleats
- d. The top of the door poles will be capped

3. Cage Doors

- a. Constructed of 3 1/2" Schedule 40 (4" OD) aluminum pipe
- b. Stand 23' tall by 14'-3 1/4" wide when installed

4. Door Pole Braces

- a. Each door pole will be supported by two (2) door pole braces
- b. Constructed of 3 1/2" Schedule 40 (4" OD) alum pipe

5. Hoisting Rope

- a. Rope used to hang the net from the net poles will be 5/16" braided polyester

6. Net

- a. Constructed of 100% Polyamide (Nylon) type 6.0 yarn solution dyed black
- b. 2"sq mesh (4" stretch mesh)
- c. twisted knotted netting
- d. UV stabilized and bonded
- e. 340.7kg (749.5lb) break strength
- f. Rope bound
- g. The main net has an opening and additional net extension sewn into it to allow for entry into the throwing area from the back of the cage without impeding safety

7. Net Support Tubes

- a. Five (5) net support tubes
- b. Constructed of 1 5/16" OD 14ga galvanized steel tubing

8. Flip Arms
 - a. Consists of eight (8) flip arms
 - b. Constructed of 3/8" x 2" steel
 - c. 36" long
 - d. Flip arms will be attached to all net poles at ground level and to the bottom of the net to keep the net secured
9. Powder Coat Options
 - a. light blue, royal blue, red, white, orange, yellow, silver, gold, gray, marron, purple, black, navy blue, Kelly green and dark green
10. Hardware
 - a. All hardware is to be zinc plated
11. Warning Signs
 - a. Consists of three (3) warning signs constructed of polyethylene board 10" x 14"
 - b. The warning signs will be fastened to the outside of the net, at eye level, facing outward, at the front sides of the discus cage and at the rear of the discus cage

2.03 732108 - BARRIER NET FOR NCAA HAMMER AND DISCUS CAGE

1. Net
 - a. Constructed of 100% white nylon 6 yarn solution dyed black
 - b. 1 7/8"sq mesh (3 3/4" stretch mesh), raschel knotless netting
 - c. UV stabilized and heat-set
 - d. 340lb break strength
 - e. rope bound

2.04 74211501 – GROUND SLEEVE KIT

1. Ground Sleeves
 - a. Consists of ten (10) 40" and two (2) 48" deep ground sleeves
 - b. Constructed of 4.5" OD by 7 gauge, galvanized steel tube

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine areas to receive Hammer and Discus Cage. Notify Architect in writing of conditions that would adversely affect installation or subsequent use. Do not proceed with installation until unsatisfactory conditions are corrected.

3.02 INSTALLATION

- A. Install Hammer and Discus Cage in accordance with manufacturer's instructions at locations indicated on the Drawings.
- B. Install equipment plumb, level, straight, square, accurately aligned, correctly located, to proper elevation, and secure.
- C. Install equipment using manufacturer's supplied hardware and fasteners.

- D. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- D. Remove and replace damaged components that cannot be successfully repaired, as determined by Architect.

3.03 ADJUSTING

- A. Adjust Cage to plumb and level as appropriate.

END OF SECTION