Facility Specification Guide

This section contains facility specification diagrams for many sports. The diagrams also can be viewed online at www.athleticbusiness.com.

BADMINTON 235
BASEBALL 227
BASKETBALL 228
FIELD HOCKEY 234
FOOTBALL 230
ICE HOCKEY 232
LACROSSE 234
PICKLEBALL 235
RACQUETBALL/HANDBALL 236
RUGBY 233
SOCCER 236
SOFTBALL 239
SQUASH 238
SWIMMING & DIVING 241
TEAM HANDBALL 243
TENNIS 245
TRACK & FIELD 246
VOLLEYBALL 244
WATER POLO 240
WRESTLING 249
FOR MORE INFORMATION CONTACT:

American Amateur Baseball Congress  
(507) 327-3120  
www.aabc.us

National Collegiate Athletic Association  
(317) 917-6222  
www.ncaa.org

National Federation of State High School Associations  
(317) 972-6900  
www.nfhs.org

USA Baseball  
(919) 474-8721  
www.usabaseball.com
**BASKETBALL**

**PROFESSIONAL**

- Minimum 110' (Diagram courtesy of the NBA)

**HIGH SCHOOL**

- Optimum length 84 feet inside, 94 feet outside. All lines shall be 2 inches wide. Neutral zones excluded. End lines and sidelines shall be a minimum of 2 inches in width.

- All lines shall be 2 inches wide (neutral zones excluded).

- Length 94 feet (inside)

- Minimum 60'

- Minimum 110'

- Diagram courtesy of the NFHS

---

Left End Shows
Rectangular Backboard
72-Inches Wide

Preferably 10 feet of unobstructed space outside. If impossible to provide 3 feet, a narrow broken 1-inch line should be marked inside the court parallel with and 3 feet inside the boundary.

Right End Shows
Fan Backboard
54-Inches Wide

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228 ATHLETIC BUSINESS MARCH 2016 WWW.ATHLETICBUSINESS.COM
FOR MORE INFORMATION CONTACT:

National Basketball Association
(212) 407-8000
www.nba.com

National Collegiate Athletic Association
(317) 917-6222
www.ncaa.org

National Federation of State High School Associations
(317) 972-6900
www.nfhs.org

(Diagrams courtesy of the NCAA.)

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Note: Game administration may place on the field of play, 4 inches from each sideline, yard-line extensions that should be 24 inches in length and 4 inches in width; and/or, at each yard line, numbers that should be 6 feet in height and 4 feet in width. The tops of the numbers should be 9 yards from the sideline and may include directional arrows next to the yard-line numbers indicating the direction toward the nearest goal line.

Note: Game administration may place on the field of play, at the inbounds lines, yard-line extensions that should be 24 inches in length and 4 inches in width.
ICE HOCKEY

Facility Specification Guide

ADULT AND YOUTH

Note: Posts with flags must exhibit a minimum height of 1.2 meters above ground.

FOR MORE INFORMATION CONTACT:
USA Hockey
(719) 576-8724
www.usahockey.com

FOR MORE INFORMATION CONTACT:
USA Rugby
(303) 539-0300
www.usarugby.org

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Notes: On the NCAA lacrosse field, the special substitution area replaces the table area. The bench and substitution/table areas may be located on either side of the field, provided they remain together.

FOR MORE INFORMATION CONTACT:

National Collegiate Athletic Association
(317) 917-6222
www.ncaa.org

National Federation of State High School Associations
(317) 972-6900
www.nfhs.org

US Lacrosse
(410) 235-6882
www.uslacrosse.org

FIELD HOCKEY

FOR MORE INFORMATION CONTACT:

National Federation of State High School Associations
(317) 972-6900
www.nfhs.org
Note: Court can be used for both singles and doubles play. Dimensions determined by the Badminton World Federation.

FOR MORE INFORMATION CONTACT:
USA Badminton
(719) 866-4808
www.usabadminton.org

FOR MORE INFORMATION CONTACT:
USA Pickleball Association
(602) 989-6357
usapa.org
Note: The length of the touch line must be greater than the length of the goal line. For players under 16 years old, the size of the field of play, as well as the width between the goal posts and the height of the crossbar from the ground, may be modified.
HIGH SCHOOL (OUTDOOR)

Note: All line markings are either 4 or 5 inches wide. Goals are 8 feet high by 14 feet wide by 5 feet deep.

FOR MORE INFORMATION CONTACT:
American Youth Soccer Organization
(800) 872-2976
www.ayso.org

U.S. Soccer Federation
(312) 808-1300
www.ussoccer.com

U.S. Youth Soccer
(972) 334-9300
www.usyouthsoccer.org

Facility Specification Guide
WWW.ATHLETICBUSINESS.COM MARCH 2016 ATHLETIC BUSINESS   237

Facility Specification Guide
WWW.ATHLETICBUSINESS.COM MARCH 2016 ATHLETIC BUSINESS   237
If the base distances or the pitching distance is found to be at the wrong dimensions during the course of the game, correct the error, with no penalty, and continue playing the game. Every effort should be made by the umpire to obtain the correct dimensions.

Note: NCAA rules require a pitcher’s lane consisting of 8’ lines drawn from the outer edges of the pitcher’s plate toward the inside edges of the inside front corners of the batter’s boxes. NCAA coaches’ boxes each consist of two lines: one 15’ line parallel to and 8’ from the baseline extended from the back edge of the base toward home plate and one 3’ line perpendicular to the end of the 15’ line that is closest to home plate. NCAA fence minimum distances are 210’ in right and left field and 230’ (and not more than 235’) in center. For all new construction after 2016, it is required that the fence be 6’ or higher and be a minimum of 190’ in left and right fields and 220 in center field. By 2017, an institutional field with a 4’ fence must be a minimum of 210’ in left and right fields and 230’ in center field, and it is highly recommended that a municipal field with a 4’ fence be used by the institution be at those same distances. The only difference between college and high school is the pitching distance. NFHS requires 43’ for female fast pitch, 46’ for male fast pitch and male/female slow pitch, and 50’ when an 11” ball is used in slow pitch.

High School fast pitch male ........................................ 46’
slow pitch male .................................................. 46’
slow pitch female ............................................... 46’
fast pitch female ................................................ 43’
slow pitch when 11” ball is used .............................. 50’

College ................................................................ 43’
Note: Floating-goal pools used in NCAA competition may exhibit a maximum length of 100 feet (30 meters) and a minimum length of 75 feet (22.9 meters) for men, and a maximum length of 82 feet (25 meters) and a minimum length of 75 feet (22.9 meters) for women. The NCAA floating-goal pool also features a ball-release device at the center circle. All future pools built for NCAA water polo should conform to metric dimensions.
FINA STANDARDS
- Length—50m. When touch panels or electronic timing devices are used, the pool must be of such length that ensures the required distance between the panels.
- Width—25m preferred.
- Depth—A minimum depth of 1.35 meters, extending from 1.0 meter to at least 6.0 meters from the end wall is required for pools with 8 lanes. Starting requirements and height of starting blocks shall be as follows: Long Course and Short Course meters: (A) In pools with water depth less than 4’ (1.22m) at the starting end, the swimmer must start from within the water; (B) In pools with water depth less than 4’ (1.22m) or more at the starting end, starting platforms shall be no less than 20” (0.5m) or more than 25” (0.75m) above the water surface. Short Course yards: The front edge of the starting platforms shall be no higher than 26” (0.762m) above the surface of the water.

USA SWIMMING STANDARDS
- Length—Long course, 164’1⁄2” (50m); short course, 82’1⁄4” (25m) or 25 yds.
- Width—Eight lanes, 8’21⁄2” (2.5m) minimum (centerline to centerline), with approximately 1’6” (0.45m) of open water outside first and last lanes.
- Water depth—For national championships and international competition, 6’7” (2m) throughout; international competition, 6’7” (2m) throughout.

FINA AND USA DIVING STANDARDS FOR DIVING FACILITIES

INTERNATIONAL & NATIONAL COMPETITION
There are a number of sanctioning organizations for national and international amateur competition. Included here are the facility standards of FINA (the Federation Internationale de Natation) and two of its U.S. affiliates, USA Swimming and USA Diving, as well as the National Collegiate Athletic Association (NCAA).

FINA AND USA DIVING DIMENSIONS FOR DIVING FACILITIES

<table>
<thead>
<tr>
<th>SPRINGBOARD PLATFORM</th>
<th>FINA Dimensions for Diving Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>As of 15 March 2010 (see FR 5.3.1)</td>
<td></td>
</tr>
<tr>
<td><strong>FINA</strong></td>
<td><strong>SPRINGBOARD</strong></td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
<td>1 metre</td>
</tr>
<tr>
<td><strong>Length</strong></td>
<td>4.80</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>1.50</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>2.25</td>
</tr>
<tr>
<td><strong>Clear Overhead</strong></td>
<td>1.60</td>
</tr>
<tr>
<td><strong>Total Height</strong></td>
<td>7.00</td>
</tr>
</tbody>
</table>

**Note:** Dimensions C (plummet to adjacent plummet) apply to Platforms with widths as detailed.

**FOR MORE INFORMATION CONTACT:**
USA Diving
(317) 237-5252
www.usadiving.org

USA Swimming
(719) 866-4578
www.usaswimming.org

**SWIMMING & DIVING**

**POOL CROSS-SECTION**

**LONGITUDINAL SECTION DIAGRAMMATIC ONLY**

**SECTION DIAGRAMMATIC ONLY**

**FOR MORE INFORMATION CONTACT:**
USA Diving
(317) 237-5252
www.usadiving.org

USA Swimming
(719) 866-4578
www.usaswimming.org

**WWW.ATHLETICBUSINESS.COM MARCH 2016 ATHLETIC BUSINESS 241**
The following are NCAA standard pool dimensions. These are recommended dimensions for collegiate competition only, and specifications are subject to annual review and change.

LONG-COURSE SWIMMING
• Preferred—For facilities dated after Sept. 1, 1996, it is preferred that the racing course be 50m (164' 1/2") in length by 75' (22.86m) in width, providing for eight 9' (2.74m) lanes with additional width outside lanes 1 and 8. A minimum water depth of 7' (2.13m) is desirable for competition. Optional markings: nine 8' (2.44m) lanes or ten 7' (2.13m) lanes.
• Acceptable—For existing facilities, it is acceptable that the racing course be 50m (164' 1/2") in length by 60' (18.29m) in width, providing for eight 7' (2.13m) lanes with additional width outside lanes 1 and 8. The water depth may be no less than 4' (1.22m) at the starting end of the racing course and no less than 3'6" (1.07m) at the opposite end. However, a water depth of no less than 7' (2.13m) is recommended throughout the entire length of the racing course.

SHORT-COURSE SWIMMING
• Preferred yards—The racing course should be 75' (22.86m) in length by at least 60' (18.29m) in width, providing for not less than eight 7' (2.13m) lanes with additional width outside lanes 1 and 8. The water depth may be no less than 4' (1.22m) at the starting end of the racing course and no less than 3'6" (1.07m) at the opposite end. However, a water depth of no less than 4' (1.22m) is recommended throughout the entire length of the racing course.

DIVING POOL
• Preferred—The diving facility should be 60' (18.29m) in length by 75' (22.86m) in width. It should be equipped with two 1-meter and two 3-meter springboards and a diving tower, providing takeoff platforms at 5, 7.5 and 10 meters. Recommended dimensions for diving facilities are specified in the table on the left.
• Acceptable—The diving facility may be separated from or incorporated with the swimming pool. Recommended dimensions for diving facilities are specified in the table on the left.

Note: The above dimensions may be incorporated in “L,” “T,” “Z” and “U” shaped pools.

PLUMMET DEPTH
For all championship and nonchampionship springboard and platform diving competitions, the water depths at the plummet may be no less than the minimum standards as specified in the table on the left.
**FOR MORE INFORMATION CONTACT:**
National Federation of State High School Associations  
(317) 972-6900  
www.nfhs.org

**FOR MORE INFORMATION CONTACT:**
National Collegiate Athletic Association  
(317) 917-6222  
www.ncaa.org

**SWIMMING & DIVING**

**NCAA**

**Number of Lanes**
All championship swimming competitions shall be conducted in racing courses having a minimum of six, 6-foot lanes. It is recommended that the racing course have a minimum of eight, 6-foot lanes.

**Standard Length**
All championship swimming competitions shall be conducted in racing courses of standard length (75 feet 1 inch; 25 meters 2.54 centimeters; or 50 meters 2.54 centimeters).

**FOR MORE INFORMATION CONTACT:**
USA Team Handball  
(719) 866-2203  
www.usateamhandball.org

**TEAM HANDBALL**

**(Measurements in centimeters)**

**Note:** A 3-meter segment centered within and as part of the center line may be of a contrasting color to the rest of the line.
The following net heights are currently in practice for the below indicated age groups and scholastic levels of competition:

<table>
<thead>
<tr>
<th>AGE GROUPS</th>
<th>GIRLS</th>
<th>BOYS/COED</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 to 15 years</td>
<td>2.24m</td>
<td>2.43m</td>
</tr>
<tr>
<td>14 and 13 years</td>
<td>2.24m</td>
<td>2.24m</td>
</tr>
<tr>
<td>12 and 11 years</td>
<td>2.13m</td>
<td>2.13m</td>
</tr>
<tr>
<td>10 years and under</td>
<td>1.98m (6'6&quot;)</td>
<td>2.13m (7'0&quot;)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SCHOLASTIC LEVELS</th>
<th>GIRLS</th>
<th>BOYS/COED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grades 1 through 6 (Elementary School):</td>
<td>1.85m (6'1&quot;)</td>
<td>1.85m (6'1&quot;)</td>
</tr>
<tr>
<td>Grades 7 and 8 (Middle School):</td>
<td>2.24m (7'4(\frac{1}{8}))</td>
<td>2.24m (7'4(\frac{1}{8}))</td>
</tr>
<tr>
<td>Grades 9 through 12 (High School):</td>
<td>2.24m (7'4(\frac{1}{8}))</td>
<td>2.43m (7'11(\frac{5}{8}))</td>
</tr>
</tbody>
</table>

Note: Dimensions of the standard doubles court shall be 8 by 16 meters. A 9-by-18-meter court shall be used for four-and six-person play.

Note: USA Volleyball and NFHS rules require standards to be 3 feet (1 meter) outside the court. In the interest of safety for age-group and scholastic competition, the height of the net shall be that specified for male competition. This height requirement shall not be modified; USA Volleyball recommends the free-zone distance between side-by-side courts be a minimum of 13 feet (4 meters). Dash marks extending the 3-meter line to off the court are recommended for collegiate level play and above. NCAA rules require a minimum ceiling height of 25 feet for all newly constructed facilities. NFHS rules allow court dimensions to measure 30 feet by 60 feet.
Note: All dimensions are to the outside edge of the lines. All playing lines are 2” in width, except the base line which may be between 2” and 4” in width.

(Diagrams courtesy of the ASBA.)
Dimensions for track and field events appearing in the following diagrams are based on requirements set forth by the various governing bodies. There are variations included in the following diagrams that are requirements and recommendations for facilities governed by the National Federation of State High School Associations (NFHS), the National Collegiate Athletic Association (NCAA), USA Track & Field (USATF) or the International Amateur Athletic Federation (IAAF). Please consult the appropriate governing body or the American Sports Builders Association for specific information. Rules allow variation in geometry and layout. The diagrams appearing in this section merely serve as examples.

**IAAF STANDARD 400 METER TRACK**

**400 METER EVENTS**

*Note:* This diagram indicates just one example of a 400 meter event layout. This specific example includes a measure line distance that is not recommended for tracks surrounding soccer, field hockey or lacrosse fields.
SHOT PUT PAD

1/4" STONE CHIPS
1/2 DEPTH
1'x1' BOARD

2" WIDE PAINTED STRIPE/DOT
ON A 3/4" RECESSED CIRCLE

1/4" CAMOUNTS FOR DRAINAGE
OF RECESSED CIRCLE ONLY

6" REINFORCED CONCRETE
SLAB WITH LIGHT
BROWN FINISH

SUGGESTED DISCUS/
HAMMER CAGE

JAVELIN RUNWAY

33.5M - 36.5M

8.0M

1.0M SURFACE EXTENSION
BEYOND STOP BOARD

STOP BOARD
POLE VAULT LANDING AREA

LONG JUMP/TRIPLE JUMP PIT PLAN

HIGH JUMP DETAIL

FOR MORE INFORMATION CONTACT:

American Sports Builders Association
(410) 730-9595
www.sportsbuilders.org

National Federation of State High School Associations
(317) 972-6900
www.nfhs.org

USA Track & Field
(317) 261-0500
www.usatf.org

(Pole vault landing area diagrams courtesy of the NFHS; all other diagrams courtesy of the ASBA.)
WRESTLING

Facility Specification Guide

FOR MORE INFORMATION CONTACT:

National Collegiate Athletic Association
(317) 917-6222
www.ncaa.org

National Federation of State High School Associations
(317) 972-6900
www.nfhs.org

USA Wrestling
(719) 598-8181
www.themat.com

(NCAA diagram.)

HIGH SCHOOL

Green

Red

Ten Foot Circle With Starting Lines

Starting Lines

Side of Scorer's Table

INTERNATIONAL

(Diagrams courtesy of USA Wrestling.)