Facility Specification Guide

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

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Facility Specification Guide

FOR MORE INFORMATION CONTACT:

American Amateur Baseball Congress
(507) 327-3220
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

WWW.ATHLETICBUSINESS.COM MARCH 2016 ATHLETIC BUSINESS 227
MEN'S COLLEGE

WOMEN'S COLLEGE

(Diagrams courtesy of the NCAA.)

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
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

PROFESSIONAL

COLLEGE & HIGH SCHOOL

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

National Hockey League
(212) 789-2000
www.nhl.com

(Diagrams courtesy of the NHL.)

(Diagram courtesy of the NCAA.)
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

USA Rugby
(303) 539-0300
www.usarugby.org

WWW.ATHLETICBUSINESS.COM MARCH 2016 ATHLETIC BUSINESS 233
Note: 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.
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)

Dotted line is minimum boundary for spectators, fencing or any objects.

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
INTERNATIONAL SINGLES COURT

INTERNATIONAL DOUBLES COURT

HARDBALL DOUBLES COURT

(Diagrams courtesy of US Squash.)

FOR MORE INFORMATION CONTACT:

US Squash
(212) 268-4090
www.ussquash.com
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: 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—Approximately 50m. When touch panels or electronic timing devices are not used, the pool must be of the same length that ensures the required distance between the panels.
- Width—Approximately 25m preferred.
- Depth—A minimum depth of 1.35 meters, measured for a distance 3’3½” (1m) to 16’5” (5m) from the end wall. Starting requirements and height of starting blocks shall be as follows: Long Course and Short Course meters. Starting platforms shall have the same length as the starting end, the swimmer must start from within the water; (B) In pools with water depth less than 4’ (1.22m) at the starting end, the swimmer must start from within the water.

USA SWIMMING STANDARDS
- Length—Long course, 164’½” (50m); short course, 82’½” (25m) or 25 yds.
- Width—Eight lanes, 8’2½” (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 the course. Minimum water depth for racing starts during competition and practice shall be measured for a distance 3’3½” (1m) to 16’5” (5m) from the end wall. Starting requirements and height of starting blocks shall be as follows: Long Course and Short Course meters. Starting platforms shall have the same length as the starting end, the swimmer must start from within the water; (B) In pools with water depth less than 4’ (1.22m) at the starting end, the swimmer must start from within the water; (C) 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) nor more than 2’5½” (0.75m) above the water surface. Short Course yards: The front edge of the starting platforms shall be no higher than 2’6” (0.762m) above the surface of the water.

Note: Minimum water depth for teaching racing starts in any setting from any height starting blocks or the deck shall be 6’ (1.84m) measured for a distance of 3’3½” (1m) to 16’5” (5m) from the end wall.

FINA AND USA DIVING DIMENSIONS FOR DIVING FACILITIES

<table>
<thead>
<tr>
<th>FINA Dimensions for Diving Facilities</th>
<th>SPRINGBOARD</th>
<th>PLATFORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>As of 15 March 2010 (see FR 5.3.1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 metre</td>
<td>3 metres</td>
</tr>
<tr>
<td></td>
<td>4.80</td>
<td>5.00</td>
</tr>
<tr>
<td>Length</td>
<td>4.80</td>
<td>5.00</td>
</tr>
<tr>
<td>Width</td>
<td>0.60</td>
<td>0.80</td>
</tr>
<tr>
<td>Height</td>
<td>1.00</td>
<td>1.00</td>
</tr>
<tr>
<td>Horiz Line</td>
<td>3.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Vert Line</td>
<td>3.00</td>
<td>5.00</td>
</tr>
<tr>
<td>Height</td>
<td>7.50</td>
<td>7.50</td>
</tr>
<tr>
<td>Vert Line</td>
<td>10.00</td>
<td>10.00</td>
</tr>
<tr>
<td></td>
<td>A-1</td>
<td>A-1</td>
</tr>
<tr>
<td>From plummet to pool wall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For regular metal stand</td>
<td>Minimum</td>
<td>1.50</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>2.24</td>
</tr>
<tr>
<td>From plummet to pool wall at side</td>
<td>Minimum</td>
<td>0.75</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>B-1</td>
<td>B-1</td>
</tr>
<tr>
<td>From plummet to pool wall at side</td>
<td>Minimum</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>2.80</td>
</tr>
<tr>
<td></td>
<td>C-1</td>
<td>C-1</td>
</tr>
<tr>
<td>From plummet to adjacent plummet</td>
<td>Minimum</td>
<td>2.40</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>2.60</td>
</tr>
<tr>
<td></td>
<td>D-1</td>
<td>D-1</td>
</tr>
<tr>
<td>From plummet to pool wall ahead</td>
<td>Minimum</td>
<td>0.90</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>E-1</td>
<td>E-1</td>
</tr>
<tr>
<td>On platform, from board to ceiling</td>
<td>Minimum</td>
<td>0.75</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>F-1</td>
<td>F-1</td>
</tr>
<tr>
<td>Clear Overhead behind and each</td>
<td>Minimum</td>
<td>2.50</td>
</tr>
<tr>
<td>side of plummet</td>
<td>Preferred</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>G-1</td>
<td>G-1</td>
</tr>
<tr>
<td>Clear Overhead ahead of plummet</td>
<td>Minimum</td>
<td>0.90</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>H-1</td>
<td>H-1</td>
</tr>
<tr>
<td>Depth of water at plummet</td>
<td>Minimum</td>
<td>0.90</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>1.25</td>
</tr>
<tr>
<td></td>
<td>J-1</td>
<td>J-1</td>
</tr>
<tr>
<td>Distance and depth</td>
<td>Minimum</td>
<td>2.50</td>
</tr>
<tr>
<td>from back wall</td>
<td>Preferred</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>K-1</td>
<td>K-1</td>
</tr>
<tr>
<td>Distance and depth</td>
<td>Minimum</td>
<td>6.50</td>
</tr>
<tr>
<td>from each side of plummet</td>
<td>Preferred</td>
<td>6.50</td>
</tr>
<tr>
<td></td>
<td>L-1</td>
<td>L-1</td>
</tr>
<tr>
<td>Minimum slope to ceiling</td>
<td>Minimum</td>
<td>1.50</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>1.80</td>
</tr>
<tr>
<td></td>
<td>M-1</td>
<td>M-1</td>
</tr>
<tr>
<td>Maximum slope to ceiling</td>
<td>Minimum</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>3.00</td>
</tr>
<tr>
<td></td>
<td>N-1</td>
<td>N-1</td>
</tr>
<tr>
<td>Maximum slope to ceiling</td>
<td>Minimum</td>
<td>2.50</td>
</tr>
<tr>
<td></td>
<td>Preferred</td>
<td>3.00</td>
</tr>
</tbody>
</table>

Note: Dimensions I (plummet to adjacent plummet) apply to Platforms with widths as detailed. Platform widths are increased if C is to be increased by half the additional width(s).

The last row in dimensions A and JK are to be used when FINA approved short futurbox boxes are installed on concrete platforms.

POOL CROSS-SECTION

LONGITUDINAL SECTION: DIAGRAMMATIC ONLY

CROSS SECTION: DIAGRAMMATIC ONLY

FOR MORE INFORMATION CONTACT:

USA Diving
(317) 237-5252
www.usadiving.org

USA Swimming
(719) 866-4578
www.usaswimming.org
The following are NCAA standard pool dimensions. These are recommended dimensions for collegiate competition only, and specifications are subject to annual review and change.

### Pool Cross-Section

#### 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. A minimum water depth of 7' (2.13m) is desirable for optimal competition conditions.

#### 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. A minimum water depth of 7' (2.13m) is desirable for optimal competition conditions.
- **Preferred meters**—The racing course should be 25m, (82' 1/4") in length by at least 60' (18.29m) in width, providing for eight 7' (2.13m) lanes with additional width outside lanes 1 and 8. A minimum water depth of 7' (2.13m) is desirable for optimal competition conditions.
- **Acceptable yards**—The racing course may be 75' (22.86m) in length by 30' (9.15m) in width, providing for at least five 6' (1.83m) lanes. 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.
- **Acceptable meters**—The racing course may be 25m, (82' 1/4") in length by at least 30' (9.15m) in width, providing for at least five 6' (1.83m) lanes. The water depth may be no less than 4' (1.22m) at the starting end of the racing course and no less than 3'5" (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.

### Diving Chart

<table>
<thead>
<tr>
<th>NCAA Recommended Dimensions for Diving Facilities</th>
<th>Dimensions as in Feet</th>
<th>SPRINGBOARD</th>
<th>PLATFORM</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 meter</td>
<td>3 meters</td>
<td>5 meters</td>
<td>7.5 meters</td>
</tr>
<tr>
<td>LENGTH/A 1'</td>
<td>15'</td>
<td>15'</td>
<td>15'</td>
</tr>
<tr>
<td>WIDTH/A 1'</td>
<td>7'</td>
<td>7'</td>
<td>7'</td>
</tr>
</tbody>
</table>

### 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.

### Plunge Depth
For all championship and nonchampionship springboard and platform diving competitions, the water depths at the plunge may be no less than the minimum standards as specified in the table on the left.

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

NFHS

FOR MORE INFORMATION CONTACT:
National Federation of State High School Associations
(317) 972-6900
www.nfhs.org

USA Team Handball
(719) 866-2203
www.usateamhandball.org

FOR MORE INFORMATION CONTACT:
USA Team Handball
(719) 866-2203
www.usateamhandball.org
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 (7'4(\frac{1}{8})')</td>
<td>2.43m (7'11(\frac{5}{8})')</td>
</tr>
<tr>
<td>14 and 13 years</td>
<td>2.24m (7'4(\frac{1}{8})')</td>
<td>2.24m (7'4(\frac{1}{8})')</td>
</tr>
<tr>
<td>12 and 11 years</td>
<td>2.13m (7'0&quot;)</td>
<td>2.13m (7'0&quot;)</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.
Facility Specification Guide

FOR MORE INFORMATION CONTACT:

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

U.S. Tennis Association
(914) 696-7000
www.usta.com

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**

![Diagram of IAAF Standard 400 Meter Track]

**400 METER EVENTS**

![Diagram of 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.
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.)