Indoor Sports Court Guidelines

These guidelines cover indoor sports courts which are used for following games:

a. Basketball
b. Volleyball
c. Badminton
d. Tennis
e. Squash
f. Table Tennis

General

i. The court should be well-lit for use during all times and the lighting arrangement should take into account the impact of glare on all sports that are planned to be played on the court. Where lights are expected to be used whenever there is play (i.e. even during day light hours), should consider movement enabled light on/off (with long timer eg. 5 min) so that the lights are not kept on throughout the day.

ii. Court should be air-conditioned, except for Casa projects where natural ventilation can be considered.

iii. Electronic scoreboard to be planned for any sport which has 5 or more players (ideally, it can be such that can be used for multiple-sports). In case of setup which is for 4 or less players, score board is not required, unless the courts are planned to be used frequently for competition.

Basketball, Volleyball, Badminton, Tennis

iv. Height should not be less than 6 mtrs clear (below light / AC fixtures)

v. If possible, natural lighting provision should be made by providing fixed windows above height of 4.5m.

vi. Standard dimensions for various courts:

a. Basketball: 94 feet x 50 feet (half basketball: 47 feet x 50 feet)
b. Volleyball: 18 m (59 feet) x 9 m (29.5 feet)
c. Badminton: 44 feet x 20 feet
d. Tennis: 78 feet x 27 feet (singles) or 36 feet (doubles)

In addition to the above, movement/playing space of min. 2.4 m on the longer dimension of the court (both sides) and 1.2 on the shorter dimension of the court (both sides) should be provided.
All dimensions stated are finished and clear dimensions (excluding structure).Proper care to be taken by the design team while coordinating structure, as for competitive sports/competitions the clear dimensions are verified by appropriate authorities

vii. If a court is to be used for multiple sports, it is essential to ensure that the Courts are fitted on plan to see how it will be possible to use the court for multiple uses (either at same time or otherwise). If full basketball court is not feasible, half basketball court to be explored. Ideally, a multi-purpose court should be sized according to the size of the sport which requires maximum space and atleast two additional courts/sports should be accommodated therein.

viii. The line markings for each sport should be done in different colours. In case of luxury / premium projects, solution for electronically enabled (LED / equivalent) line marking to be considered (example: Chelsea Barracks, London).

ix. The flooring options are as follows:

	Sport Facility	Base	Field material	
1	Basketball Court	Concrete	Opt 1: Vinyl Flooring Opt 2: PU Flooring Opt 3: Wooden flooring	Wooden flooring is recommended for High End/Luxury projects.
2	Volleyball Court	Concrete	Opt 1: Vinyl Flooring Opt 2: PU Flooring Opt 3: Wooden Flooring	Wooden flooring is recommended for High End/Luxury projects.
3	Badminton Court	Concrete	Opt 1: Vinyl Flooring Opt 2: PU Flooring Opt 3: Wooden Flooring	Wooden flooring is recommended for High End/Luxury projects.
4	Multipurpose Court	Concrete	Opt 1: Vinyl Flooring Opt 2: Wooden Flooring	Wooden flooring is recommended for High End/Luxury projects.

Slope of 1:100 or 1:120 is recommended for the base

x. Upto height of 1.8 m (max. 2.1 m) from ground, a foam/equivalent packed wall panelling should be provided so that when the ball/players bits the wall he/she is not injured and the ball doesn't leave a mark on the wall.

xi. Colour of wall and wall panelling should be such that dirt is not easily seen.

Squash

i. Standard Dimensions for Singles Court: 6.4 m (21 feet) x 9.75 m (32 feet) with clear height of 5.64 m (18 feet 6 inches)). The clear height shall be measured to the underside of the lowest obstruction including lights.

ii. Flooring: Maple wood floorboards (WSF certified).
   a. Sub base of IPS, with Anti-termite treatment followed by 6 mm Vapour barrier.
   b. Wooden sleepers with cushion pads below are laid on the surface.
   c. Maple wood floorboards are installed and a sealer coat applied.

iii. Court Markings: All court markings shall be 50 mm wide and contrast in colour to adjoining surfaces, all wall markings shall be the same colour and all floor markings shall be the same colour.

iv. Walls:
   a. The front and 2 side walls shall be in solid blockwork and shall have a Rebound Hard Plaster coating. A 0.48 m high Tin (Sound board) to be installed at the bottom of the front wall. The Tin may have advertising, logos, club or sponsors names.
   b. The 12 mm thick toughened rear Glass Wall to have a glass door in the middle.

v. Windows: There shall be no windows or other areas of glazing over any part of the court. If windows are provided in any walls above or adjoining the court they shall be provided with blinds.

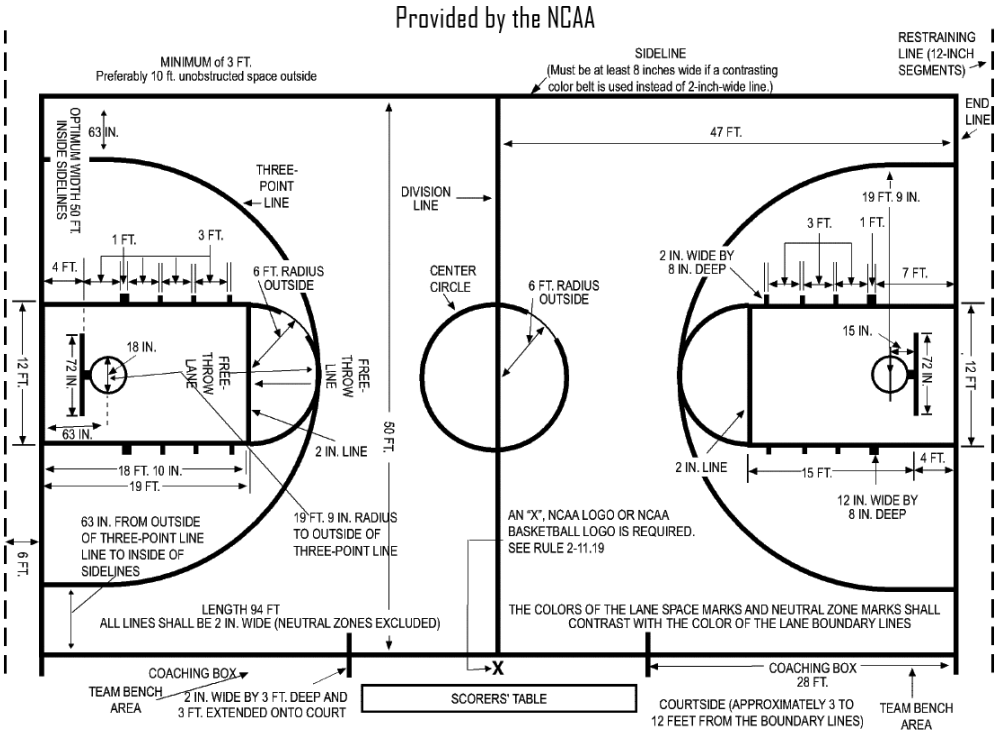
vi. Lighting: The court shall be lit by artificial light. The minimum level of illumination measured 1000 mm above the finished floor shall be 300 lux.

Table Tennis

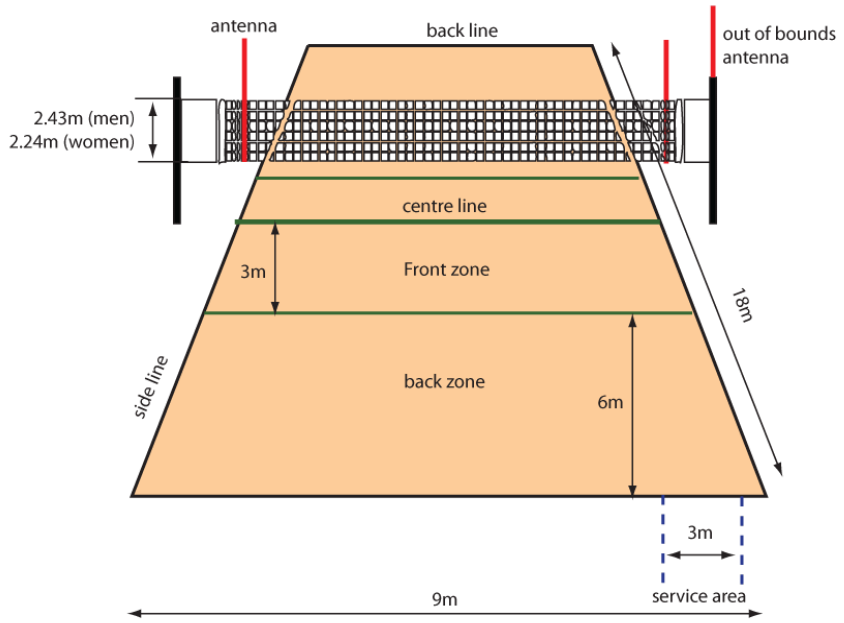
The table is 2.74 m (9.0 ft) long, 1.525 m (5.0 ft) wide, and 76 cm (2.5 ft) high. The table or playing surface is uniformly dark coloured and matte, divided into two halves by a net at 15.25 cm (6.0 in) in height.
The ITTF approves only wooden tables or their derivates.
For a full size **table** that is 9 feet long and 5 feet wide, clear **space** at least 19 feet long and 11 feet wide is required for play without feeling too cramped.

Appendix:

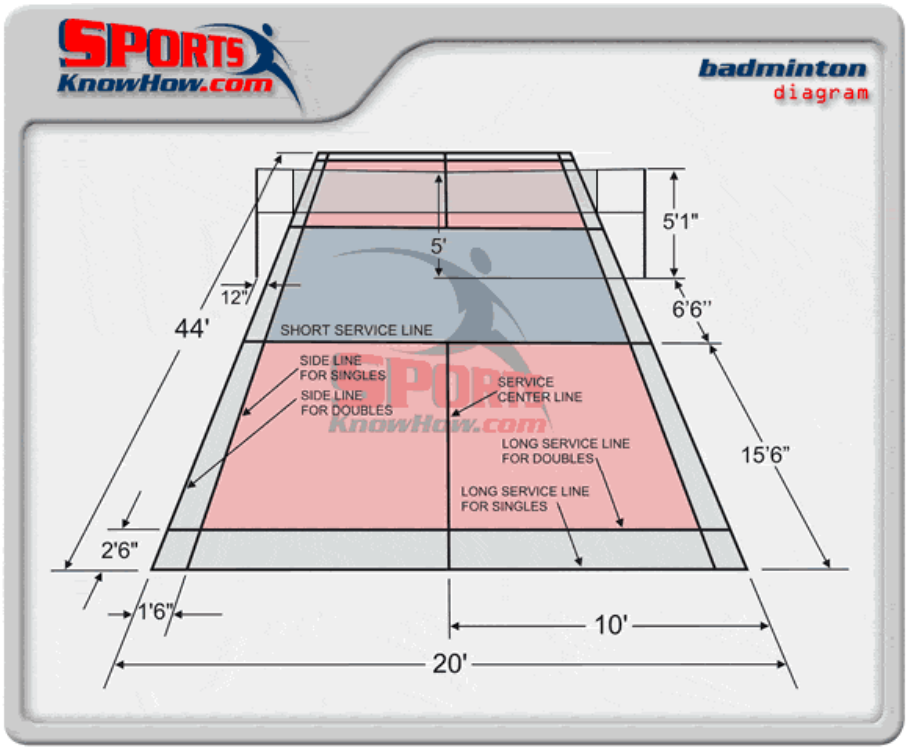
Basketball Court



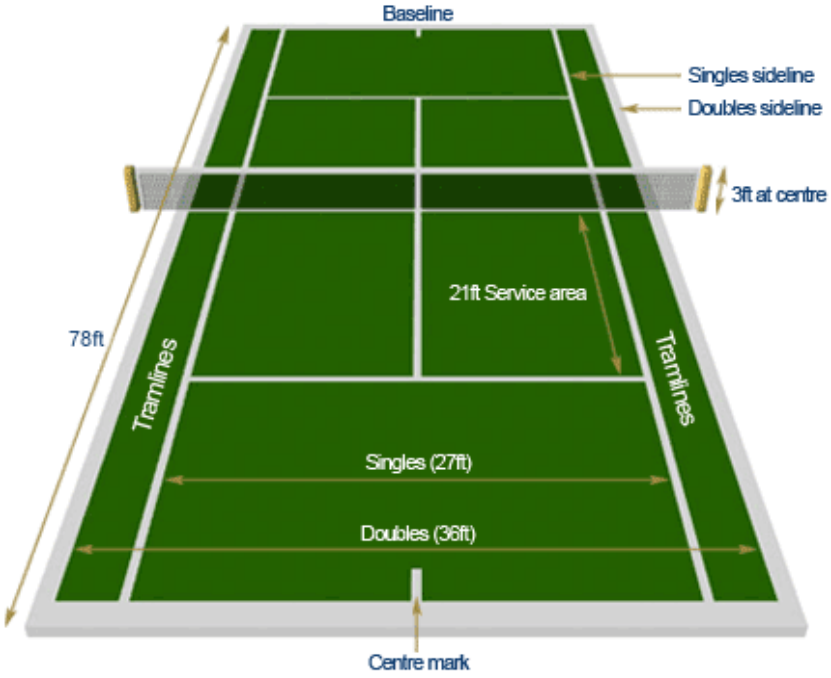
Volleyball Court



Badminton Court



Tennis Court



Squash Court

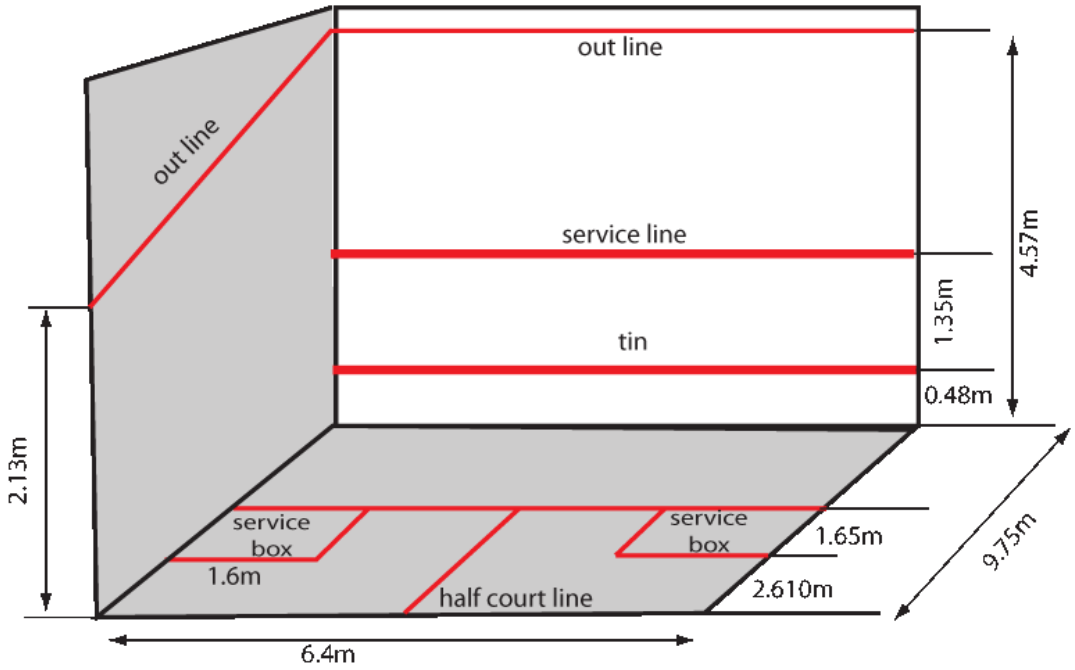
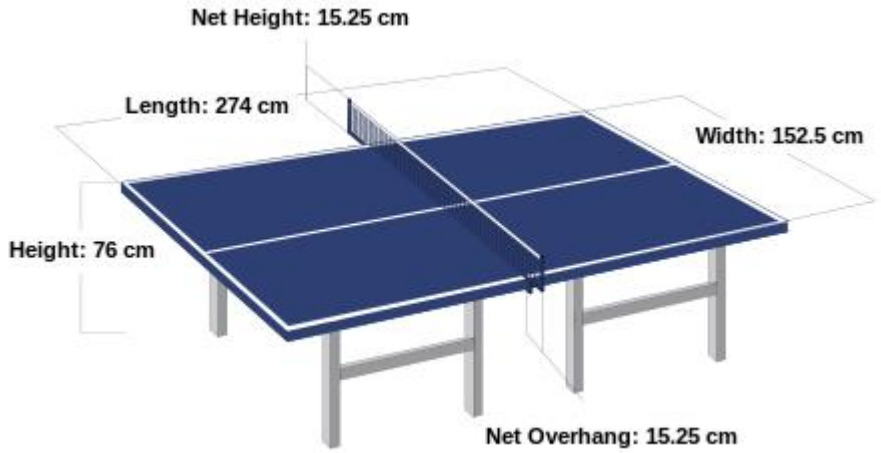


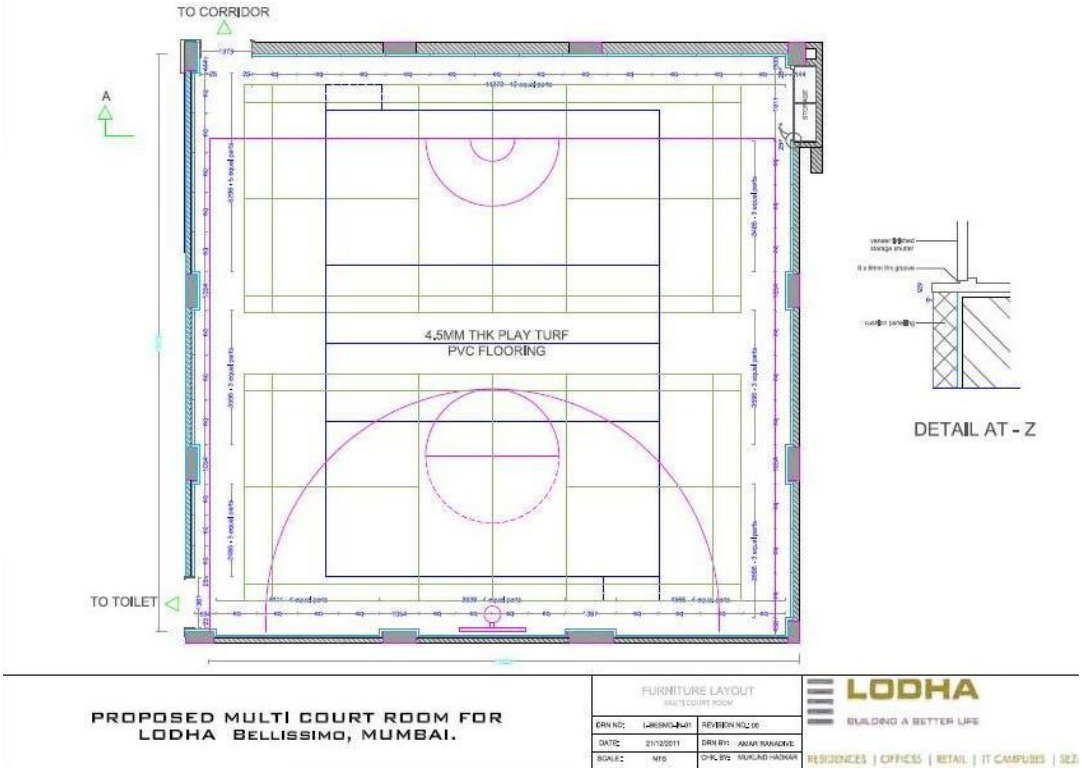
Table Tennis



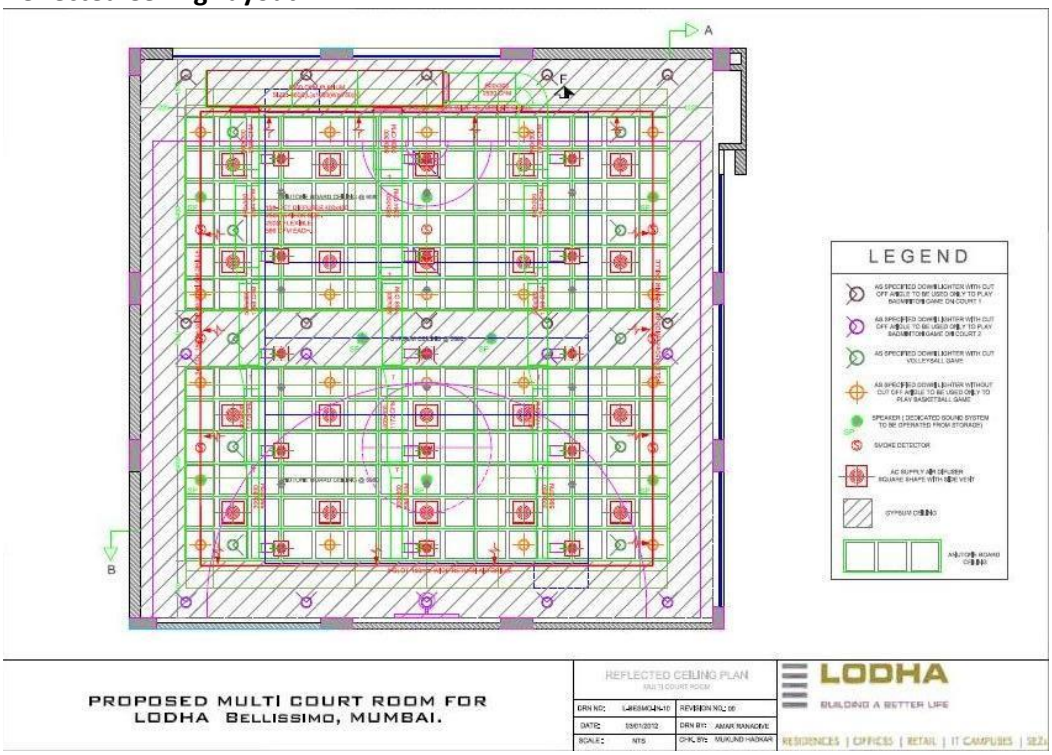
Multipurpose Hall at Lodha Bellissimo, Mahalaxmi – some details

Note: this hall was not ideally planned and has several areas of improvement in the plan. The finishing and other details are quite good. It currently accommodates a half basketball court, a volleyball court and two badminton courts. At any given time, one can play two games of badminton OR one game of volleyball or one game of basketball.

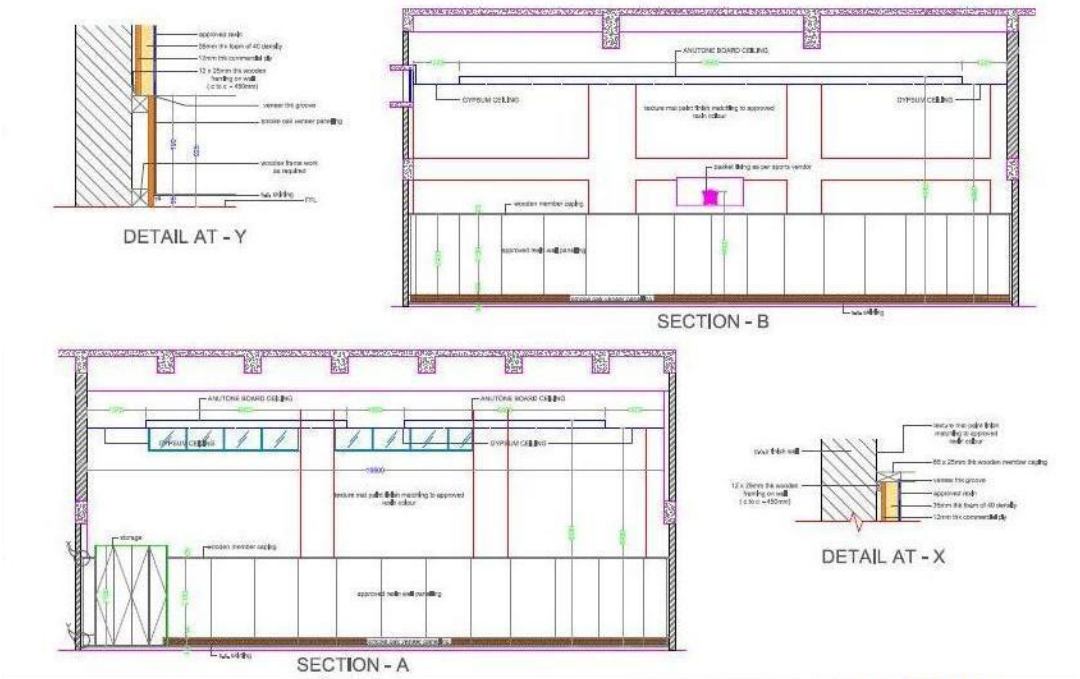
Plan



Reflected Ceiling Layout



Section



Finished Photo



Please also refer Annexures A-D for Indoor Sports Courts flooring specifications:
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