

Developing the Right Sports Hall

Sports Data Sheets Indoor Hockey

Introduction

The following sports data sheets are for use in conjunction with Sport England's 'Developing the Right Sports Hall' (DRSH) main document. They relate to Step 5 'Establishing the Project Brief' and identify the needs of the priority sport and the key secondary sports.

These sheets show the requirements for Indoor Hockey as the 'Priority Sport' at various levels of play and other 'Secondary Sports' that can fit into the same overall space.

New Level of Play Category ¹	Level of Play			
	International	Premier	Club	Community
	This category relates to the lowest level of International play ²	This category relates a Premier / National League Club competing in regional or Inter county competitions	This category relates to a local club competing in District and County League competitions	This category relates to school and community use where there is no formal competitive structure / no specific need for space for officials or spectator accommodation
Indoor Hockey equivalent ³	International competition	England Hockey Premier Division, Division One and Division Two & National Finals	Local club/school competition	School and recreational use

Commentary

The sports data sheets use the NGB's requirements for the field of play. Spectators zones for match play are not included and are assumed to be a site specific requirement. For further details of the requirements for indoor hockey, see the England Hockey (EH) website: www.englishockey.co.uk/. For further details of the requirements for 'secondary sports', see Appendix 8 of the main DRSH document for links to other NGB's web sites.

¹ New level of play categories for each sport as agreed by the NGBs and Sport England and applicable throughout this document.

² For higher levels of international competition, such as major championships, the relevant NGB should be consulted at a very early stage as the requirements vary considerably.

³ For other sports, see Appendix 4 'Level of play categories for each sport' within main document.

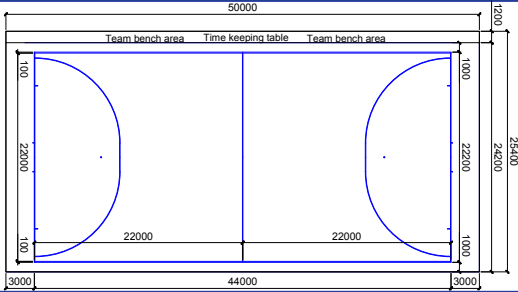


Key Issues

- **Spatial requirements:** Indoor hockey practice can be played on all courts that are 44.0 x 22.0 m and bounded with side-boards on the long sides. A small-size court of 36.0 x 18.0 m may be specified in national or local regulations, however, full-size run offs should be retained. Overall primary playing area dimensions are measured from the inside of the side-boards and the outside of the back-lines. No specific minimum height is given. Height provision is driven by other secondary sports using the space.
- **Court markings:** All markings must be made in a colour which contrasts with the playing surface.
- **Flooring:** See FIH requirements for flooring to dedicated facilities. The strongly preferred option for permanent Indoor Hockey facilities is a sprung floor - see notes on surface options. For lower levels of play, a temporary flooring can be used provided that the flooring underneath is smooth, flat, level and dry. End and side run offs shall have the same surface as the playing area. Floor sockets (for secondary sports) to be flush with the floor surface and subject to risk assessment.
- **Lighting:** Uniformity ratio = E_{min}/E_{ave} . The FIH/EH recommend the following minimum requirements: 500 lux for Community and Club levels, 750 lux for major regional and international matches and 1000 lux for televised matches.
- **Spectator Provision:** There should be early consultation with England Hockey on the spectator requirements for each project as these will vary from club to club and site to site.

Note: For further details, refer to The International Hockey Federation (FIH) publication *Rules of Indoor Hockey* available from the England Hockey web site, and Sport England's design guidance notes *Sports Halls Design and Layouts, Floors for Indoor Sports and Artificial Sports Lighting*.

Primary Sport

Indoor Hockey - Overview		Source of information: http://www.englishockey.co.uk/page.asp?section=1146&sectionTitle=Rules+of+Hockey and http://www.fih.ch/en/home https://www.sportengland.org/facilities-planning/tools-guidance/design-and-cost-guidance/									
International and Premier		Overall space (m) incl. R/O + T/O									
		Principal playing area (m)			Run offs (m)			Additional areas (m)		Specification	
L x W x H	Length *	Width *	Height	Ends	Sides	Between courts / Between courts with a dividing net	T/O	SS	Flooring	Lighting (Table A.1 BS EN 12193:2007)	
Club	International	50.00 25.40 N/A	44.00	22.00	To suit secondary sports	3.00	1.10 (incl. 0.1 m for side-boards)	N/A	1.20	Optional	Sprung floor meeting IFH standards 750 (1000 televised) lux 0.7 Emin/Eave
	Premier	50.00 25.40 N/A	44.00	22.00	To suit secondary sports	3.00	1.10 (incl. 0.1 m for side-boards)	N/A	1.20	Optional	Sprung floor meeting IFH / EH standards 750 (1000 televised) lux 0.7 Emin/Eave
Community	Club	42.00-50.00 23.40-25.40 N/A	36.00 - 44.00	20.00 - 22.00	To suit secondary sports	3.00	1.10 (incl. 0.1 m for side-boards)	N/A	1.20	Optional	Sprung floor meeting IFH / EH standards 500 lux 0.7 Emin/Eave
	Community	42.00-50.00 20.20-24.20 N/A	36.00 - 44.00	18.00 - 22.00	To suit secondary sports	3.00	1.10 (incl. 0.1 m for side-boards)	N/A	Optional	N/A	Sprung or P3 floor meeting EH standards 500 lux 0.7 Emin/Eave

* Use of a full-size pitch is strongly recommended but a smaller size pitch may be specified in national or local regulations. The minimum size of a pitch is 36 metres long and 18 metres wide.

Primary Sport

Indoor Hockey				Source of information: http://www.englishhockey.co.uk/page.asp?section=1146&sectionTitle=Rules+of+Hockey and http://www.fih.ch/en/home https://www.sportengland.org/facilities-planning/tools-guidance/design-and-cost-guidance/																		
International and Premier				Overall space (m) incl. R/O + T/O 50.00 x 25.40 x height (to suit secondary sports)																		
				Principal playing area (m)			Run offs (m)			Additional areas (m)		Specification										
				Length	Width	Height	Ends	Sides	Between courts / Between courts with a dividing net	T/O	SS	Flooring	Lighting									
L x	W x	H																				
50.00	25.40	N/A		44.00	22.00	To suit secondary sports	3.00	1.10 (incl. 0.1 m for side-boards)	N/A	1.20	Optional	Sprung floor meeting IFH / EH standards	750 lux (1000 televised) 0.7 Emin/Eave									
Secondary Sports																						
Sport	Number	Compliance	Level																			
Badminton	6 court format	✓	Club	47.10 17.40 7.50	13.40	6.10	7.50	2.00	1.50	1.50 / 2.60	Optional	Optional	Combined, area or mixed elastics	Lower (500 lux)								
Basketball	1 court format	✓	Premier	32.10 21.10 7.00	28.00	15.00	7.00	2.05	2.05	4.10 / 4.10	1.00	Required	Semi-sprung wooden or synthetic	Lower (500 lux)								
Indoor Cricket	4 lanes	✓	Club / Community	33.62 20.04 7.70	31.62	3.66	7.70	1.00	1.00	3.40 for basket - ball goal	-	-	Mats req/d (to ECB standards)	Same (750 lux)								
Netball	1 court format	✓	Premier	36.60 23.35 7.50	30.50	15.25	7.50	3.05	3.05	4.00 / 6.10	2.00	Optional	Any meeting AENA standards	Same (750 lux)								
Volleyball	1 court format (lengthways)	✓	International (height permitting)	34.00 22.00 12.50	18.00	9.00	12.50	8.00	5.00	10.00 / 10.00	3.00	-	Area elastics	Higher (1000-1500 lux)								
Volleyball Training	3 court format (transverse)	✓	Community size run offs	45.00 24.00 7.50	18.00	9.00	7.50	3.00 (1.00 min)	3.00	6.00 / 6.00	-	-	Area elastic	Lower (500 lux)								
Basketball Training	Rings on side walls	✓	Training	-																		

Primary Sport / Secondary Sport Issues

Indoor Hockey - International/Premier (cont/d)

Notes of key issues for international/premier indoor hockey

- See 'Key Issues' on page 1 cover sheet.
- Hatched areas indicate space which is excess to secondary sport requirements. In some cases, this can provide improved circulation and space for spectators and wheelchair users.
- International levels of play for indoor hockey have been based on the FIH's requirements. No specific minimum height is given. Height provision is driven by other secondary sports using the space.
- See FIH requirements for flooring to dedicated facilities. The strongly preferred option for permanent Indoor Hockey facilities is a sprung floor, for which there are various construction options. Flooring surfaces that are

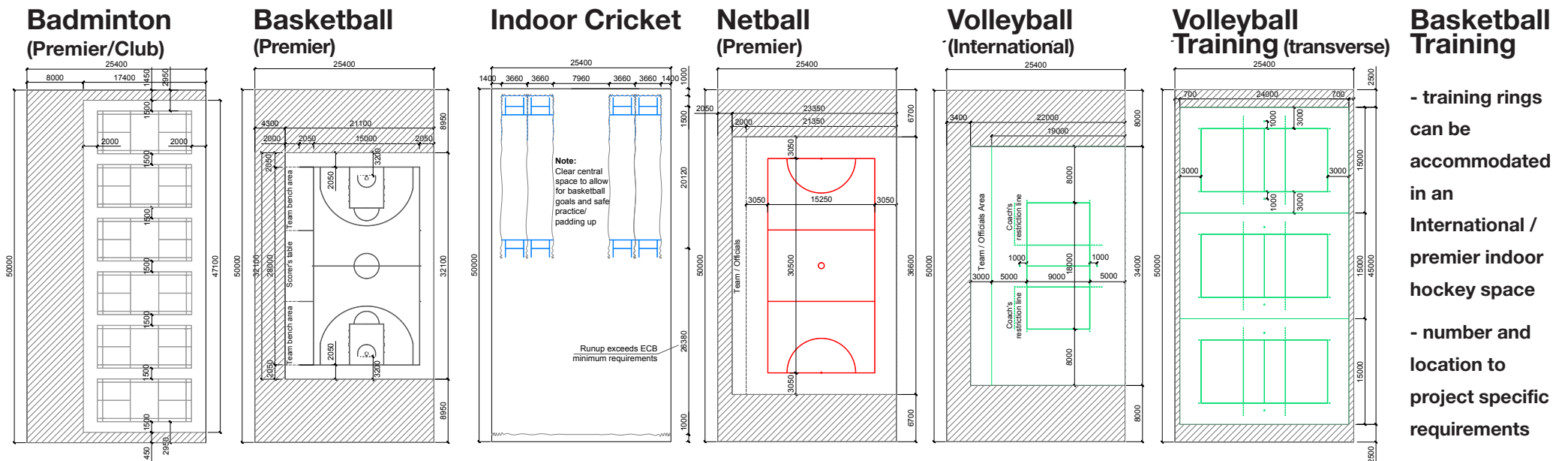
suitable for Indoor Hockey include: timber, vinyl, linoleum, rubber and composites, in either sheet or tile form.

- All markings must be made in a colour which contrasts with the playing surface.
- Side-boards are based on a square 100 mm cross-section. The upright surface facing the pitch is inclined by 10 mm towards the pitch. They must be made of wood or materials with similar physical properties. They must not have fittings or supports which are dangerous to players or umpires.
- The FIH/EH recommend lighting levels of 750 lux for major regional and international matches and 1000 lux for televised matches.

- FIH have further requirements for International events - visit their web site at <http://www.fih.ch/en/home> and <http://www.fih.ch/hockey-basics/rules/>

Secondary Sports

Layouts for other sports within a dedicated international/premier indoor hockey space of 50.00 x 25.40 x height to suit secondary sports



Primary Sport

Indoor Hockey				Source of information: http://www.englishhockey.co.uk/page.asp?section=1146&sectionTitle=Rules+of+Hockey and http://www.fih.ch/en/home https://www.sportengland.org/facilities-planning/tools-guidance/design-and-cost-guidance/										
Club				Overall space (m) incl. R/O + T/O 42.00-50.00 x 23.40-25.40 x height (to suit secondary sports)										
<p>The diagram shows a rectangular rink layout. The overall dimensions are 42000-50000 in length and 23400-25400 in width. The principal playing area is 36000-44000 in length and 20000-22000 in width. Run offs are 3000 on the ends and 18000-22000 on the sides. Additional areas include team bench areas, time keeping tables, and space for teams and match officials.</p>				Principal playing area (m)			Run offs (m)			Additional areas (m)		Specification		
				L x W x H	Length	Width	Height	Ends	Sides	Between courts / Between courts with a dividing net	T/O	SS	Flooring	Lighting
				42.00 - 50.00	36.00 - 44.00	20.00 - 22.00	To suit secondary sports	3.00	1.10 (incl. 0.1 m for side-boards)	N/A	1.20	Optional	Sprung floor meeting IFH / EH standards	500 lux 0.7 Emin/Eave
Secondary Sports (based on full-size court)														
Sport	Number	Compliance	Level											
Badminton	6 court format	✓	Club	47.10 17.40 7.50	13.40	6.10	7.50	2.00	1.50	1.50 / 2.60	Optional	Optional	Combined, area or mixed elastics	Same (500 lux)
Basketball	1 court format	✓	Premier	32.10 21.10 7.00	28.00	15.00	7.00	2.05	2.05	4.10 / 4.10	1.00	Required	Semi-sprung wooden or synthetic	Same (500 lux)
Indoor Cricket	4 lanes	✓	Club / Community	33.62 20.04 7.70	31.62	3.66	7.70	1.00	1.00	3.40 for basket - ball goal	-	-	Mats req/d (to ECB standards)	Higher (750 lux)
Netball	1 court format	✓	Premier	36.60 23.35 7.50	30.50	15.25	7.50	3.05	3.05	4.00 / 6.10	2.00	Optional	Any meeting AENA standards	Higher (750 lux)
Volleyball	1 court format (lengthways)	✓	International (height permitting)	34.00 22.00 12.50	18.00	9.00	12.50	8.00	5.00	10.00 / 10.00	3.00	-	Area elastics	Higher (1000-1500 lux)
Volleyball Training	3 court format (transverse)	✓	Community size run offs	45.00 24.00 7.50	18.00	9.00	7.50	3.00 (1.00 min)	3.00	6.00 / 6.00	-	-	Area elastic	Same (500 lux)
Basketball Training	Rings on side walls	✓	Training	-										

Primary Sport

Indoor Hockey				Source of information: http://www.englishhockey.co.uk/page.asp?section=1146&sectionTitle=Rules+of+Hockey and http://www.fih.ch/en/home https://www.sportengland.org/facilities-planning/tools-guidance/design-and-cost-guidance/										
Community				Overall space (m) incl. R/O + T/O 42.00-50.00 x 20.20-24.20 x height (to suit secondary sports)										
				Principal playing area (m)			Run offs (m)			Additional areas (m)		Specification		
				R/O			T/O		SS					
				Length	Width	Height	Ends	Sides	Between courts / Between courts with a dividing net	Space for teams (T) and match officials (O)	Spectator seating	Flooring	Lighting	
L x	W x	H												
42.00 - 50.00	20.20 - 24.20	N/A	36.00 - 44.00	18.00 - 22.00	To suit secondary sports	3.00	1.10 (incl. 0.1 m for side-boards)	N/A	N/A	N/A	Sprung floor meeting EH standards	500 lux 0.7 Emin/Eave		
Secondary Sports (based on full-size court)														
Sport	Number	Compliance	Level											
Badminton	6 court format	✓	Club	47.10 17.40 7.50	13.40	6.10	7.50	2.00	1.50	1.50 / 2.60	Optional	Optional	Combined, area or mixed elastics Same (500 lux)	
Basketball	1 court format	✓	Premier	32.10 21.10 7.00	28.00	15.00	7.00	2.05	2.05	4.10 / 4.10	1.00	Required	Semi-sprung wooden or synthetic Same (500 lux)	
Indoor Cricket	4 lanes	✓	Club / Community	33.62 20.04 7.70	31.62	3.66	7.70	1.00	1.00	3.40 for basket - ball goal	-	-	Mats req/d (to ECB standards) Higher (750 lux)	
Netball	1 court format	✓	Premier	36.60 23.35 7.50	30.50	15.25	7.50	3.05	3.05	4.00 / 6.10	2.00	Optional	Any meeting AENA standards Higher (750 lux)	
Volleyball	1 court format (lengthways)	✓	International (height permitting)	34.00 22.00 12.50	18.00	9.00	12.50	8.00	5.00	10.00 / 10.00	3.00	-	Area elastics Higher (1000-1500 lux)	
Volleyball Training	3 court format (transverse)	✓	Community size run offs	45.00 24.00 7.50	18.00	9.00	7.50	3.00 (1.00 min)	3.00	6.00 / 6.00	-	-	Area elastic Same (500 lux)	
Basketball Training	Rings on side walls	✓	Training	-										

Primary Sport / Secondary Sport Issues

Indoor Hockey - Community (cont/d)

Notes of key issues for community level indoor hockey

- See 'Key Issues' on page 1 cover sheet.
- Hatched areas indicate space which is excess to secondary sport requirements. In some cases, this can provide improved circulation and space for spectators and wheelchair users.
- Community level of play for indoor hockey has been based on the EH's requirements. No specific minimum height is given. Height provision is driven by other secondary sports using the space.
- The strongly preferred option for permanent Indoor Hockey facilities is a sprung floor, for which there are various construction options. Flooring surfaces that are suitable for Indoor Hockey include: timber, vinyl,

linoleum, rubber and composites, in either sheet or tile form. Indoor hockey can be played on temporary flooring (e.g. P3 category: $\geq 45\%$ shock absorption with vertical deformation ≤ 3.5 mm) provided that the flooring underneath is smooth, flat, level and dry.

- All markings must be made in a colour which contrasts with the playing surface.
- Side-boards are based on a square 100 mm cross-section. The upright surface facing the pitch is inclined by 10 mm towards the pitch. They must be made of wood or materials with similar physical properties. They must not have fittings or supports which are dangerous to players or umpires.

- The FIH/EH recommend a lighting level of 500 lux for Community level.

Secondary Sports (based on full-size court)

Layouts for other sports within a community level indoor hockey space of 50.00 x 24.20 x height to suit secondary sports

