



ENGINEERED  
FOR HOCKEY

FIH approved field equipment

# TEAM SHELTERS

Performance & quality requirements

VER. 1.1



INTERNATIONAL HOCKEY FEDERATION  
FÉDÉRATION INTERNATIONALE DE HOCKEY

[fih.ch/qp](http://fih.ch/qp)

## 1 Introduction

As part of the FIH's strategy to develop the game and provide reassurance to those investing in hockey facilities, the FIH Quality Programme has developed this guide that defines the quality requirements for FIH Approved Team Shelters.

This Standard refers to International (ISO) and European (EN) standards. Where equivalent or similar national or regional standards exist, they may also be used to demonstrate compliance with the quality requirements of this Standard.

## 2 Approval process

For a team shelter to be registered as an FIH Approved product the following process needs to be followed:

1. The manufacturer (or supplier) shall become a member of the FIH Quality Programme (see Appendix A and contact [facilities@FIH.ch](mailto:facilities@FIH.ch) for details).
2. The manufacturer should arrange for an example of the team shelter to be inspected by a suitable inspection agency, agreed in advance with the FIH, that is able to undertake the necessary checks to verify compliance with this document. Ideally the inspection agency will operate an ISO accredited quality management programme.

Note: When a manufacturer has a common team shelter design than only differs in seating capacity (e.g. a model or design that can seat 6, 8, 10 or 12 depending on its length), there is no need for each model to be inspected. In such cases providing the smallest and largest models are found to comply with this standard, all other sizes in between can also be certified, providing the manufacturer provides a written declaration that all aspects of the other shelters are identical.

3. The results obtained should be reported in English, and be sent to the FIH, by the inspection agency, for review.
4. If the team shelter is found to meet the quality levels detailed in this guide, it shall be granted the right to be designated an *FIH Approved Team Shelter*
5. A team shelter shall remain approved providing the manufacturer remains a member of the FIH Quality Programme; no examples of the team shelter are found to be non-compliant with this guide; and the specification and construction of the team shelter does not change.

## 3 REQUIREMENTS

### 3.1 A FIH approved team shelter:

- should provide seating for a minimum of six people

Note: The precise number of seats required for a specific hockey event will be specified in the event venue manual or local competition rules. It is important that those purchasing team shelters ensure they will provide the required number of seats for events likely to be hosted at the venue.

- may be designed for permanent installation or be free-standing (mobile)
  - should provide protection from rain, wind, and sun
  - should, when designed to provide protection from irrigation wind drift, prevent water entering the shelter.
- 3.2 Team shelter seats and supporting frames should comply with all relevant safety, strength and durability requirements specified in EN 581-2<sup>1</sup>.
- 3.3 The shape of the seats or benches should allow water to drain.
- 3.4 The shape of the seats should allow easy cleaning.

## 4 Size

The team shelter should measure a minimum of 1900 mm high x 1250 mm deep x 500 mm per person.

## 5 Materials

### 5.1 General

The shelter should be made from materials selected so that the structural integrity of the shelter is not affected during use, transportation (mobile shelters), or by the climatic conditions that can be anticipated for the location the shelter is to be supplied to.

Materials should be non-toxic and comply with all national environmental and toxicology regulations.

When selecting materials, consideration should be given to the eventual disposal of the team shelter, having regard to future recycling where possible, and to any possible environmental impact through disposal.

Powder coating should be undertaken in accordance with EN 12206 or EN 13438 as appropriate.

Galvanized treatments to steel components should be applied in accordance with EN ISO 1461.

### 5.2 Support frame

The shelter's support frame should be made from an impact resistant non-corrosive (aluminum or galvanized steel, etc) metal extrusion, minimum profile 50 mm x 50 mm.

All joints should be welded, or include locking mechanisms (lock nuts, etc) to ensure they do not become loose during use and movement.

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<sup>1</sup> EN 581-2 Outdoor furniture – Seating and tables for camping, domestic and contract use – Part 2: Mechanical safety requirements and test methods for seating

### 5.3 Ground anchoring systems

Ground anchoring systems should be protected against corrosion (e.g. hot galvanized).

### 5.4 Seats

Materials used to construct seats (or benches) should comply with the relevant requirements of EN 13200-4<sup>2</sup>.

### 5.5 Roof and side panels

Translucent roofing and side glazing should be made from impact resistant polycarbonate, polyester (PetG) or other suitable materials. Minimum thickness 3 mm.

Metallic roof and side panels should be powder coated, non-corrosive (aluminum) or galvanized steel, etc.

Composite fibreglass and polyester resin shelter constructions should be impact resistant and have with a smooth gel coat finish.

## 6 Safety in use

### 6.1 Seats

Seats (or benches) should comply with the following requirements:

- a) they should be designed to not cause injury or damage to the user. In particular:
  - there should be no accessible parts with sharp edges
  - the edges of seats and backrests, which are in contact with the user when sitting, should have minimum radius of 3 mm
  - the ends of all hollow components should be closed or capped

### 6.2 Stability

#### 6.2.1 Permanently fixed shelters

The manufacturer's specified method of fitting should ensure the shelter cannot lift from the ground through the actions of wind or users (including mis-use).

#### 6.2.2 Freestanding shelters

Freestanding shelters should be supplied with a method of anchoring (integrated or separate) that ensures the shelter cannot lift or tilt from the ground through the actions of wind or users (including mis-use).

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<sup>2</sup> EN 13200-4 Spectator facilities – Part 4: Seats – Product Characteristics

### 6.3 Entrapment

Team shelters should be designed and constructed so that during use, and for mobile shelters, during transportation and storage, there is no risk of finger entrapment, crushing or shearing. This should be assessed using the procedures given in EN 913, Annex A.

## 7 Assembly, installation, and maintenance instructions

The manufacturer should provide comprehensive written instructions for assembly, installation (including details of necessary concrete mounting plinths, etc), and for mobile shelters, transportation, and safe storage. They should also provide details of all necessary maintenance to ensure the life expectancy of the shelter is achieved.

## 8 Warranty

The shelter should be supplied with a manufacturer's warranty that provides cover against manufacturing defects and the premature failure of materials. The minimum duration of the warranty should be two years (noting manufacturers may include a disclaimer against premature failure due to abuse, misuse, and lack of maintenance).

## Appendix A – Membership of FIH Quality Programme Manufacturers of Field Equipment

The **FIH Quality Programme** provides consistent and dependable industry standards for a range of equipment and facilities used by the game of hockey.

As a manufacturer of FIH Approved field equipment a company becomes part of an exclusive group that is working in partnership with the FIH to ensure the quality and performance of Hockey equipment.

In addition to demonstrating their commitment to hockey and showcasing industry best practices, they benefit from:



- FIH Certificate of Approval



- The right to use FIH Approved logos on their approved products.



- Input into industry development through attendance at FIH technical meetings and the ability to provide feedback on any changes made to the *FIH Hockey Equipment Standards*.
- Increased worldwide exposure and marketing through recognition by the FIH of their products and their presence on the FIH's website. Information will include company name, website, and a list of FIH Approved equipment they manufacture.

### Membership criteria

Either manufacturers or brand owners<sup>1</sup> of hockey field equipment satisfying the requirements of this Standard may apply to join the FIH Quality Programme, subject to the following conditions:

1. The product is manufactured under a quality management system (ISO 9001 or similar) at the time of application and for the duration of the team shelter's approval.
2. The manufacturing company complies with all national and local employment laws and the *United Nations Convention on the Rights of the Child*.
3. Payment of the appropriate annual licensing fee, as advised by the FIH.

Suppliers of white label products that have previously been shown to comply with this Standard may also apply for FIH Approval of the product under their own name, subject to them entering a separate licensing contract to the manufacturer and payment of the appropriate licensing fee.

### Notes:

1. Brand owners are defined as companies that own the intellectual properties rights to a product but outsource the manufacturing to a third-party company.

## FIH Field Equipment Standards

Whilst every effort has been made to ensure the accuracy of the information contained in this series of publications, any party who makes use of any part of the Standard in the development of a hockey facility shall indemnify the International Hockey Federation (FIH), its servants, consultants or agents against all claims, proceedings, actions, damages, costs, expenses and any other liabilities for loss or damage to any property, or injury or death to any person that may be made against or incurred by the FIH arising out of or in connection with such use.

Compliance with the requirements detailed in the Standard by a User does not of itself confer on that User immunity from their legal obligations.

Compliance with the requirements detailed in the Standards by a User constitute acceptance of the terms of this disclaimer by that User.

FIH reserve the right to amend, update or delete sections of the Standard at any time, as they deem necessary.

Any questions about this document should be addressed to:

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