

# MATERIAL REGULATIONS



EDITION 2020

**International Floorball Federation**

**Material Regulations  
and  
Certification Rules for IFF-marking  
of  
Floorball Equipment  
SPCR 011**

**Edition 2020**

**Interpretation of the Material Regulations.**

If the need to interpret Material Regulations between two editions occurs,  
can this be done 2 times / year (in May and December).

Valid from July 1, 2020

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Prepared by  
**RISE Research Institutes of Sweden AB**  
Certification  
SPCR 011



# Preface

## Certification rules for IFF-marking Floorball Equipment

Certification involves confirmation by an independent third party that a product fulfils requirements set out in standards or some other form of specification. Certification by RISE is performed by RISE Certification, a department that is separate from the testing and inspection departments. Certification of products by RISE is performed in accordance with EN ISO/IEC 17065.

RISE, as an appointed certification body by IFF, can certify products for the IFF-mark. This certification means that the product fulfils technical requirements and that there is a continuous surveillance. The certification rules herein specify the conditions for certification, technical requirements for Floorball equipment. The technical requirements are verified by testing in accordance with SP-method 1506. The continuous surveillance consists of testing of samples purchased on the open market or factory samples.

The certification rules are based on applicable standards or specifications but may be subject to review henceforth e.g. for adjustment to European or international standards. A review can also be legitimate if new regulations are introduced or as a result of new information gained from applying certification rules.

The certification rules and reviews of the rules will always be subject to approval of IFF.

This version replaces the previous version dated July 2018.

Borås, May 2020

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# Conditions for Certification of Floorball Equipment

## 0 The certification processes

### 0.1 Scope

The scope of the certification rules presented in this document is solely intended for Floorball equipment used for league play in accordance with IFF's rulebook. It contains technical requirements and procedures for continuous surveillance.

These certification rules comprise the following activities:

1. Evaluation of the products properties.
2. Setting up an agreement to ensure that type tested and approved equipment for floorball are manufactured according to SPCR 011, and that the manufacturer will comply with the latest issue of SPCR 011 in all aspects, and the criteria regarding continuous surveillance.
3. Issuing of a certificate.
4. Continuous surveillance of certified products by testing of samples taken from the manufacturers warehouse or bought from the open market.

A certificate can be issued when steps 1 and 2 are completed.

If products, e.g. facemasks, are covered by other regulations, such as EU Directives / Regulations, this will not be checked through this certification procedure.

### 0.2 Application

The process starts with an application from the manufacturer or supplier.

### 0.3 Review of application

When reviewing the application, RISE review that the application is complete, and that the application can be handled within this rule. The review may mean that RISE cannot accept the assignment, which is then communicated to the applicant with a justification. If the application is adopted, this is communicated to the applicant through an order confirmation.

### 0.4 Sampling and test samples

The manufacturer is responsible for the sampling. Test samples shall be representative of the normal production. If the test samples are prototypes, they shall be representative of the intended future production and shall be selected by the manufacturer. Additional verifying testing can be necessary from production if prototype samples are type-tested. When the certification shall cover a range of sizes, testing of samples in different sizes may be necessary.

### 0.5 Evaluation

During the evaluation process, the product is checked to ensure it has been manufactured in accordance with the technical data, and that it meets the requirements in section 2. The evaluation process includes tests and examinations that are carried out to the extent that the requirements specifies. The evaluation includes a review of labelling and information to the user etc. In cases where the product and/or documentation shows deficiencies, i.e. does not meet the requirements, the evaluation may be cancelled.

The evaluation process also includes a check of the agreement about that the manufacturer will comply with the latest issue of SPCR 011 in all aspects, and the criteria regarding continuous surveillance is set up and signed.

## **0.6 Review and decision**

The result of the evaluation is summarized, and the result is reviewed. If the result of the review is approved, the process proceeds to the decision phase. When a decision on certification has been taken, a certificate is issued to the applicant. The certificate will also be listed on RISE or IFFs website with information about the certified product and the manufacturer. The certificate document will not be published.

## **0.7 Certificate**

The validity of the certificate presumes that no changes are made to the certified product, that the certification rules are not modified and that the requirements for certification are continuously fulfilled. See sections 2-5.

# 1 Requirements, general

All corresponding related to testing and certification shall be done in written English.

## 1.1 Requirements and rules

### 1.1.1 Application

Application for certification is to be made in writing and should be accompanied by:

- **Technical data** including test report, drawings, product description(s), assembly instructions if required etc. These documents are to contain the following information:
  - **Test report.** The test report is to demonstrate that the technical requirements are met in accordance with chapter 2. The report should not be more than two years old on application.
  - **Drawings.** The main drawing with the dimensions specified by SP-method 1506 being the minimum.
  - **Product description.** Description of primary material content unless included in the drawing.
  - **Assembly instructions.** Required for sideboards, goals and facemasks.
  - **Miscellaneous.** Drawings, product descriptions and assembly instructions are to be provided with name or number and with the date as well as latest revision date.
- **Declaration** from the manufacturer that the in-house inspection will ensure that only products meeting the requirements will be placed on the market, bearing the mark.
- **Proposal for marking** according to section 1.2 (see also appendix A4, Application form for certification).

A non-complete application can mean that RISE will reject the application.

### 1.1.2 Supplier's In-House Inspection

The supplier shall have an internal inspection system and shall, on request, provide details of the system. See chapter 3.

### 1.1.3 Agreement

An agreement must be reached between RISE and the supplier. See appendix A7.

### 1.1.4 Period of Validity for Certificate

The period of validity for certificate is five years. The period of validity for family-certificates is two years. The holder of the certificate will be notified three months before the certificate is due to expire and asked which certificates (if any) he wishes to be extended. The period of validity can be extended after application from certificate holder followed by a limited evaluation. Presuming that the products are not modified, the certification rules are not significantly changed, and the surveillance has been performed without remarks, the extension can be done without further testing. If there have been any changes, a new testing can be necessary. The testing will then be limited to the parts that are changed.

### **1.1.5 Modification of Certified Product**

The holder of the certificate shall, before making any alteration to the design or materials, notify RISE in writing of such intended alterations. RISE will decide on the resulting necessary response: examples of such response include renewed testing and modification of the certificate.

A change of product name will result in a need to modify the certificate. Certificates may show several names for the same product. It applies to balls, goals, rinks, facemasks and goggles. For sticks, all modification of brand and model names that are connected to the certificate will be done by revising the database of certified Floorball equipment.

### **1.1.6 Family-certificate**

Family-certificate is a new kind of certificate, especially developed for companies with special requirements. A family-certificate is always based on two or more product certificates. The period of validity for family-certificates is two years.

E.g. family-certificates can be used when same model name is used on sticks with different shaft-constructions.

For more information please, contact RISE (see also appendix A8, page 3).

### **1.1.7 Rules for transfer of a brand/s to other company and responsibility before new certificates can be issued**

The reason for the transfer of brand/s to other companies can be e.g. due to takeovers, license withdrawal, bankruptcy, etc.

In a transfer of a brand/s, in addition to the general rules (see section 5.6), the new company must take responsibility for the brand/s outstanding debt related to the IFF-marking system, before the new certificates can be issued.

### **1.1.8 Rules for current license holders before new certificates can be issued**

Current license holders must take responsibility for outstanding debt related to both testing / certification and the IFF-marking system, before the new or revised certificates can be issued.

### **1.1.9 Rules for current license holders with payment problems and debts to IFF/RISE over 5.000 CHF**

Any license holders, with outstanding debts for more than 5.000 CHF to IFF/RISE will be put on notice and will need to pre-pay the marking costs (see also section 1.3.1) and testing costs.

As a second step IFF will decide a final pay date for all the existing debts. If the debts are not paid by then, IFF will not allow the licence holder to test new products, Test Stop.

The Test Stop can only be lifted by decision of IFF.

### **1.1.10 Rules for exemptions**

The number of exemptions should be kept as low as possible, in order to simplify the situation for the referees.

A large number of exemptions also weaken the system of Certified Floorball Equipment.

But in some cases, dispenser may need to be used, and these cases are listed below:

Apply for an exemption is possible in the following cases:

- If a new requirement is introduced and new ways of working is needed.
- If a new requirement is introduced and engraving is needed,
- If a new requirement is introduced and long lead times are required.
- Minor deviations from the requirements that are deemed to still be safe to play with.

Apply for an exemption is not possible in the following cases:

- Requests to mix shafts and blades between different brands.
- Requests to sell out stocks.

An administrative fee of CHF 300 is to be paid for each exemption.

## 1.2 IFF-Marking, general

Marking is to contain the certification mark as shown below. Stick manufacturers can print the certification mark as a part of the Brand name / Model name sticker / print, see section 1.3.1. The certification mark's type and placement for each product type is to be in line with the following:

Stick	sticker on the shaft of the stick, between the grip binding and shaft / blade attachment point. See section 1.3.
Blade	embossed mark on the blade's surface, see section 1.3.5.
Ball	embossed mark on the ball's surface, see section 1.4.
Goals	sticker around the goal crossbar, see section 1.5.
Rink	sticker on the back of each sideboard section, See section. 1.6.
Facemask	sticker on the inside or outside. (other requisite markings see appendix A9, only valid within the European Union).

Sizes: 37±2 mm x 15±2 mm, for sticks.  
45 x 19 mm, facemasks.  
90 x 38 mm, for goals and rinks.  
(see appendix A5, Order form for certification marks).



Certification marking for Goals, Rinks and Facemasks.



Certification marking for sticks.  
(layout of the self-printed colour version)



Certification marking for sticks.  
(layout of the self-printed black and white version)



Certification marking for sticks.  
(optional layout of the self-printed black and white version)

XXXXXX = The certification- or family certification- number of the stick.

YY = The manufacturing year.

E.g. 105804/06

Products that have been certified and began production of the period October to December are permitted to be labelled with the following year marking.

Technical information:

Size	Colour code		
37±2 mm x 15±2 mm.	Teal	CMYK	81 / 0 / 39 / 0
	Teal	PANTONE	326

### 1.2.1 Non-acceptable brand names / model names

To avoid misunderstandings / incorrect market advantages, etc. of words or expressions that can be, without a specific IFF permission, perceived as the IFF agrees / favours one product before others. A list of non-acceptable words or expressions are listed below.

The listing is not comprehensive, so in case of any doubt contact the IFF for a statement.

#### List of non-acceptable words or expressions

International Floorball, IFF, WFC, World Championship, Euro Championship, Asia Championship, World Floorball, Tournament, Global, Recommended, Game, etc.

### 1.2.2 Accounting reports

Three times a year the manufacturers will have to send in accounting reports of the quantity of sold Floorball sticks and balls with certification marking during the following periods:

- January – April, accounting reports must be sent in at latest May 21<sup>st</sup>.
- May – August, accounting reports must be sent in at latest September 21<sup>st</sup>.
- September – December, accounting reports must be sent in at latest January 21<sup>st</sup> following year.

The accounting report form will be available for downloading from Manufactures Information Web Site. The manufacturer's person authorized to sign for the company as well as the companies Certified public accountant must sign the accounting report. The accounting report must be RISE available within three weeks after each period. See also section 4.6.5 concerning sanctions.

It is very essential that these reports for sticks and balls are correct and sent in time.

### 1.2.3 New IFF logo

The new official IFF certification mark design is now available for download, in various formats, on the Manufactures Information Web Site. For companies who have adopted the new marking system must not later than 1<sup>st</sup> of July 2018 use the new design.

## 1.3 Stick, Shaft and Blade

Marking is to contain the certification mark as shown in point 1.2. Stick manufactures can print the certification mark as a part of the Brand name / Model name sticker / print.

The certification mark placement for each stick, blade and grip are to be in line with the following:

Stick	Sticker on the shaft of the stick, between the grip binding and shaft / blade attachment point.
Blade	Embossed mark on the blade's surface.
Sizes:	37±2 mm x 15±2 mm, for sticks. (see appendix A5, Order form for certification marks).

### **1.3.1 Marking of stick**

For new companies, in the first year after received its first certificate the IFF-mark must be purchased and applied to the shaft.

In the first year, it is appropriate that a marking proposal include the IFF-mark are developed. The proposal must be presented and approved by the certification body (RISE).

If the company would prefer to continue to purchase IFF-mark, it is also an opportunity.

From year two and with an approved marking proposal, it is possible to switch over to self-printing the certification mark as a part of the Brand name / Model name sticker / print.

If companies do not pay for the reported number of sold IFF-marked products in time and have debts exceeding CHF 5,000, the possibility of self-marking will be withdrawn. The company must return to purchase the IFF-mark and advance payment will be used.

The brand name in question shall be included as a prefix- or a suffix in the name of the stick and the blade shall be marked accordingly with the brand name. The sticker / print must be performed in a resistant material, e.g. paper and similar materials are not allowed. The manufacturer is not allowed to change the dimension of the mark more than within below stated sizes, not change the design, colour, grey scale or black and white version of the mark. The background of the mark must not be white or transparent but have a good contrast to the IFF logotype, text and number, either it is performed in colour, grey scale or black and white. The number on the certification mark is to be the same as the stick's certification number or the family-certification number followed by manufacturing year.

### **1.3.2 General Rules for the Floorball Stick**

Any combination of shafts and blades between different brands are not allowed. Further, it is not permitted to sell or use IFF-certified and approved shafts with non-approved or non-IFF-marked blades. Nor is it permitted to sell or use non-approved shafts together with IFF-marked and approved blades or non-approved blades that are still IFF-marked.

All the above combinations are therefore not allowed to be sold on the marked or used in any official matches. It is of utmost importance that these rules are to be followed.

All legal combinations of shafts/blades can be found in the database for certified equipment on IFF's homepage.

If a shaft is to be shorted; the shaft must be shorted from the top of the shaft. It's not legal to shortening the shaft from the bottom (shaft/blade connection point) of the shaft.

### **1.3.3 Name of certificate holder**

Name of certificate holder is to be printed on the sticks. The name can be shown as company name and telephone No. and/or an internet address. The font size must be readable and preferably be placed on the backside of the shaft.

### **1.3.4 Uniformed stick measurement**

The length of the stick must be uniformed. The length to be communicated to the customers is the length of the stick measured as described in appendix A1 section 5.2.4. Stick length can be but don't need to be printed on the shaft; the stick length can be shown on a separate sticker or on the knob. Make sure that all new sticks produced after July 1<sup>st</sup>, 2014 is carrying the new uniformed stick measurement.

### 1.3.5 Embossed mark for blade

The IFF-mark must be shown as an embossed marking on the blade. The font size must be 5 mm. Make sure that all new moulding tools are carrying the IFF-mark.

The brand name of the blade must be shown as an embossed marking on the blade. The font size must be at least 5 mm in height. Make sure that all new moulding tools have the brand name engraved and all blades are carrying the brand name.

Companies can apply for an exemption from the marking for a period of maximum two years.

IFF Embossed Certification mark

The official IFF certification mark design for embossed marking of blade is available for download, on the Manufactures Information Web Site.

The IFF logo consists of the letters 'IFF' in a bold, sans-serif font.

**Embossed Certification  
mark for blade**

### 1.3.6 Shaft certificate

Only the shaft characteristics are specified in the certificate. All brand/model names linked to the certificate are to be found in the database of Certified Floorball Equipment. All brand/model names placed on the market must be registered in the database.

## 1.4 Ball, Marking and Rules

Marking is to contain the certification mark as shown below. The certification mark placement for the ball is to be in line with the following:

Ball      Embossed mark on the ball's surface.

Size:     Readable.

### 1.4.1 Embossed mark for ball

The IFF-mark must be shown as an embossed marking on the ball. The font size must be readable. All new moulding tools for balls must adopt the new marking requirement.

Companies must gradual replace the old embossed IFF logo, the final date was set to June 30<sup>th</sup>, 2016.

IFF Embossed Certification mark

The official IFF certification mark design for embossed marking of blade is available for download, on the Manufactures Information Web Site.

The IFF logo consists of the letters 'IFF' in a bold, sans-serif font.

**Embossed Certification  
mark for ball**

### 1.4.2 Ball colour

IFF reserves the exclusive right to the colour of the official IFF Match ball. If IFF decides to use its exclusive right, it will have to be made for two years at the time and included in the Material Regulations.

## 1.5 Goal, Marking and Rules

Marking is to contain the certification mark as shown below

The certification mark placement for the goal is to be in line with the following:

Goal      Sticker around the goal crossbar.

Size:     90 x 38 mm, for goals and rinks  
(see appendix A5, Order form for certification marks).



### 1.5.1 Name of certificate holder

Name of certificate holder is to be printed on the goals. The name can be shown as company name and telephone No. and/or an internet address. The font size for goals must be readable and preferably be placed on the backside of the goal.

## 1.6 Rinks, Marking and Rules

Marking is to contain the certification mark as shown below

The certification mark placement for the rink is to be in line with the following:

Rink: sticker on the back of each sideboard section.

Size: 90 x 38 mm, for goals and rinks  
(see appendix A5, Order form for certification marks).

### 1.6.1 Name of certificate holder

Name of certificate holder is to be printed on the rinks. The name can be shown as company name and telephone No. and/or an internet address. The font size for rinks must be readable and preferably be placed on the backside of the rink. The rink corner sections need to be marked; all other rink sections are optionally.

## 1.7 Mask, Marking and Rules

Marking is to contain the certification mark as shown below (voluntary requirement).

The certification mark's type and placement for the mask is to be in line with the following:

Facemask: Sticker on the inside or outside.  
(other requisite markings see appendix A9, only valid within the European Union).

Sizes: 45 x 19 mm, facemasks.  
(see appendix A5, Order form for certification marks).

### 1.7.1 Embossed mark for mask

The IFF-mark must be shown as an embossed or broken through marking stamped onto or laser cut-out metal plate and welded or hard-soldered to the net on the left side of the mask. The font size must be readable. Companies must adopt the new marking requirement not later than 1<sup>st</sup> of July 2014, see section 2.5.3.

The IFF logo consists of the letters 'IFF' in a bold, stylized, sans-serif font. The letters are black and have a slightly irregular, blocky appearance.

**Embossed Certification  
mark for mask**

IFF Embossed Certification mark

The official IFF certification mark design for embossed marking of blade is available for download, on the Manufactures Information Web Site.

## 1.8 Floorball Accessories

Floorball accessories can, on voluntary basis, be accepted for sanctioned use together with certified Floorball equipment, under special circumstances. The special circumstances and technical requirement will be published on IFF Floorball Equipment web site in each specific case. The acceptance fulfils IFF's requirements for using IFF's logotype together with following text "Recommended by IFF" on the specified Floorball accessories, package and promotion material. All up-coming and accepted Floorball accessories will be listed on IFF's Floorball Equipment web site. The list will show type of accessories and the limitation of use and/or a recommendation when to use it.

## 2 Technical Requirements - Type Testing and Criteria

Type testing is carried out with reference to certain attributes as follows:  
(see appendix A3, Application form for testing).

### 2.1 Stick incl. the Blade

Sticks (6 items of each type) are tested according to SP-method 1506, point 5.2 (see appendix A1), and are assessed according to the following requirements.

All the tested sticks are to meet the requirements.

#### 2.1.1 Stick Design

In order to avoid injury to other players, the stick is to be designed without rough edges, protruding supports or other sharp parts of the shaft or blade of the stick. The stick is to be designed as one-piece. If the stick is not designed as one-piece, the blade is to have a fixed mounting to the shaft by means of prefabricated hole, using rivet or screw (unfixed, snap lock, etc. are prohibited). For straightness (see appendix B1) - the stick shaft is, when unloaded, to be fitted within two imaginary parallel lines. The distance between the lines is to be 50 mm. The grip line is to be marked for minimum 80 % of the shaft circumference. The grip line is to have a good contrast to the background colour.

The stick is to be carrying the uniformed length measuring system as described in section 1.3.2.6 and appendix A1 section 5.2.4.

The stick blade main construction and outermost surface is to be produced in thermoplastic materials without fillers or reinforcements such as e.g. milled fibres. This is to ensure that the blade does not damage the playing surface. It is permissible to use colour pigments.

Antioxidants, UV-absorbing additives etc. can also be used to prevent polymer degradation.

The blade construction can consist of other plastic materials/laminates than the used thermoplastic materials.

The other plastic materials/laminates are to be centred in the middle of the blade, and may not be placed closer to the blade edge (playing surface) than the thickness of the lower blade frame or a minimum distance of 4 mm. This is to ensure that the playing surface is not damaged when the blade material is worn out. Make sure that the other plastic materials/laminates will be well anchored (moulded) into the surrounding blade structure and that all the edges are protected. The other plastic materials/laminates are limited to 1/3\* of the blades total area\* but shall not cover the entire upper part of the blade horizontally. The ability to twist and hook the blade must be maintained. Otherwise it can be placed where the manufacturer chooses. (see appendix B6).

The largest single open area of the other plastic materials/laminates is limited to 5 cm<sup>2</sup>. The other plastic materials/laminates may have a larger total area but then need to be covered with one or more blade grooves; so, no single open areas are exceeded.

The other plastic materials/laminates should always be protected by a surrounding thermoplastic material and may never be the outermost material, which first meets the ball, another stick, etc. either on the forehand or backhand side.

The limitations will protect the playing surface, secure the blade to be able to twist when stepped upon must allow hooking of the blade.

The blade is to have embossed prints. The marking is to be of such proportions and design that the information is clearly visible and is not removed under play. The print size may not be less than 5 mm in height. The embossed print is to be uncoloured.

\* The manufacturer must provide the test house the blade's total area and the area of other plastic materials/laminates used in the blade. Preferably by a calculation performed via the CAD-program and shown in the drawing.

#### 2.1.2 Stick Weight

The complete stick must not weigh more than 380 g with binding.

### 2.1.3 Stick Dimensions

The stick is to be designed with dimensions according to appendices B1 and B2.

The shaft may be strapped above the grip line, but approval marks or other possible official marks must not be covered. It is permissible to divide the grip binding into two or more parts. The shaft must have a knob closing it. It is permissible to have other shaping (e.g. hexagonal, octahedral) on the upper 50 % of the shaft length. The upper 50 % of the shaft length must be covered by a grip binding if the shaft's curve radius is less than 6 mm.

The dimensions must conform to the standard.

a) stick length	max 1140 mm
b) the shaft's curve radius	min 6 mm
c) the shaft's diameter	max 35 mm
d) length to grip line marking	375 <sup>+20</sup> / <sub>-20</sub> mm
e) width of grip line design	min 2 mm and max 40 mm *
f) blade bottom edge radius	max 270 mm
g) blade edge radius	min 2 mm
h) blade length	max 270 mm
i) blade thickness	min 8 mm
j) blade height	min 72 mm and max 80 mm and passing through blade height measuring device.
k) blade penetration depth	max 20 mm
l) blade concavity depth	max 12 mm
m) shaft straightness	within 50 mm

\* It is still legal to use a 10 mm wide grip line marking.

### 2.1.4 Shaft Rigidity

#### 2.1.4.1 Shaft Rigidity Method A, shafts 850mm to 1040mm (sticks 950mm – 1140mm).

The shaft should deflect by at least 23 mm under a load of 300 N measured as mean value of three deflections in each direction (horizontal and vertical). No individual value may be less than 17 mm for the most rigid direction of the shaft. The shaft should and tolerate a deflection of at least 60 mm in the most flexible direction without cracking or fracturing. The shaft's resulting deformation following deflection should not exceed 6 mm.

#### 2.1.4.2 Shaft Rigidity Method B, shafts 650mm to 849mm (sticks 750mm – 949mm).

The shaft should deflect by at least 10 mm under a load of 300 N measured as mean value of three deflections in each direction (horizontal and vertical). No individual value may be less than 8 mm for the most rigid direction of the shaft. The shaft should and tolerate a deflection of at least 30 mm in the most flexible direction without cracking or fracturing. The shaft's resulting deformation following deflection should not exceed 3,5 mm.

### 2.1.5 Shaft and Blade Impact Strength

Shaft: Visible cracks or fractures should not occur.

Blade: Visible cracks, fractures, loose parts or parts that fall away from the blade should not occur.

### 2.1.6 Blade Radii

The blade's peripheral radius should not be less than 2 mm.

The blade's bottom edge radius should not be greater than 270 mm.

### 2.1.7 Blade Discoloration onto Playing Surface

Discoloration on the playing surface should be no more than 10%. The discoloration shall be easily removed with the help of paper, water and simple cleaning agent. The lacquered surface may have a slightly matt finish.

### **2.1.8 Blade Torsion Strength**

Visible cracks, fractures, loose parts or parts that fall away from the blade should not occur.

## **2.2 Ball**

The balls (10 of each type) are tested according to the SP-method 1506, section 5.3 (see appendix A1), and are assessed according to the following requirements. The ball can have only one colour outside and can have a second colour inside. IFF approves balls for IFF events and have reserves the exclusivity for its official match ball colours. (see paragraph 1.4.2).

National federations can approve other than white, vanilla or red balls for play in national series. All the tested balls are to meet the requirements.

### **2.2.1 Ball Weight**

The ball is to weight  $23 \pm 1$  grams.

### **2.2.2 Ball Dimensions**

The ball is to be designed with dimensions according to appendix B3.

The dimensions must conform to the standard.

- |   |                |
|---|----------------|
| a) ball diameter                            | $72 \pm 1$ mm  |
| b) hole diameter                            | $10 \pm 1$ mm  |
| c) the hole's internal placement at joint   | no requirement |
| d) the hole's internal placement over joint | $c/2 \pm 2$ mm |

### **2.2.3 Ball Surface Fineness**

The ball's surface is to be even, negative embossed pattern up to 0.5 mm are allowed, but the surface and negative embossed pattern fineness is to be between  $Ra\ 1-5\ \mu m$ . Any protruding unevenness over 0.5 mm from the surface of the ball should not be present at the joint.

### **2.2.4 Number of Holes**

The ball is to have 26 holes.

### **2.2.5 Breaking Stress**

The ball's material is to tolerate a breaking stress of  $6.0\ N/mm^2$  as a minimum, and  $1.5\ N/mm^2$  over the joint.

### **2.2.6 Rebound**

The ball's rebound is to be  $790 \pm 50$  mm.

### **2.2.7 Ball Marking**

The ball is to have a negative IFF embossed print (see also point 1.3.2.4). The marking is to be of such proportions and design that the information is clearly visible and is not removed under play. The negative embossed print is to have the same colour as the ball.

The ball can have one print or negative embossed print in direct connection to the joint, showing the manufactures name or the product name. The font size must be maximum 5 mm in height. The print or negative embossed print can have a different colour. The prints should not take up more than 1/10th of the ball's surface.

## **2.3 Goal**

Beside the official match goal (1600 x 1150 mm) three other goal sizes (1200 x 900 mm, 900 x 600 mm and 600 x 450 mm) can be certified. Goals (1 of each type) are tested to SP-method 1506, section 5.4 (see appendix A1), and are assessed according to following requirements.

### 2.3.1 General Design

The goals are to be red and constructed with metal tubing. The goal is to be designed without a metal bar for holding the drop-net. If the goals are not designed as single unit, the metal tubes are to have a fixed mounting to each other by means of prefabricated holes, using self-locking screws or nuts (unfixed are prohibited). The fixed mounting is to have no sharp outstanding points. The drop net is to cover the entire width of the goal, be placed  $200 \pm 25$  mm behind the goal frame bar and permanently fixed at the top. There is no restriction regarding net colours.

### 2.3.2 Goal Dimensions

The goal is to be designed with dimensions according to appendix B4. The radii of the goal, excluding those at the base of the goal, should not be under the diameter of the tubing. All the dimensions must conform to the standard.

	<u>1600 x 1150</u>	<u>1200 x 900</u>	<u>900 x 600</u>	<u>600 x 450</u>
a) goal width	$1600 \pm 2$ mm	$1200 \pm 2$ mm	$900 \pm 2$ mm	$600 \pm 2$ mm
b) goal height	$1150 \pm 2$ mm	$900 \pm 2$ mm	$600 \pm 2$ mm	$450 \pm 2$ mm
c) back bar diameter	$20 \pm 2$ mm	$20 \pm 2$ mm	$20 \pm 2$ mm	$20 \pm 2$ mm
d) goal frame diameter	$32 \pm 1$ mm	$22 \pm 2$ mm	$22 \pm 2$ mm	$22 \pm 2$ mm
e) lower goal depth	$650 \pm 20$ mm	$520 \pm 20$ mm	$480 \pm 20$ mm	$420 \pm 20$ mm
f) goal corner radius	100 $\pm$ 20 mm (radius of central axis)			
g) upper goal depth	$400 \pm 50$ mm	$350 \pm 50$ mm	$300 \pm 50$ mm	$250 \pm 50$ mm

### 2.3.3 Goal Weight

The goal with net is to weigh:	<u>1600 x 1150</u>	<u>1200 x 900</u>	<u>900 x 600</u>	<u>600 x 450</u>
	$12 \pm 1.0$ kg	$6 \pm 1.0$ kg	$3 \pm 0,5$ kg	$3 \pm 0,5$ kg

### 2.3.4 Pad Discoloration onto Playing Surface

The pads should not leave traces of paint on the playing surface, apply to all goal sizes. The pads are to be white.

### 2.3.5 Drop Net Strength

Net and erection device are to be intact, apply to all goal sizes.

### 2.3.6 Net Mesh Size

The mesh should be min 40 x 40 mm and max 50 mm x 50 mm, apply to all goal sizes.

### 2.3.7 Drop Net Length and Mounting / Positioning

The drop net length is to be such that the bottom edge hangs between a min of 0 mm and a max of 50 mm from the playing surface. The drop net shall be placed and fixed  $200 \pm 25$  mm behind the goal frame bar and looking from the front the drop net shall be fixed symmetrical in the middle in the goal and cover the entire width of the goal (see appendix B7), this apply to all goal sizes.

## 2.4 Rink

Rink (2 straight sections of each type) is tested according to SP-method 1506, point 5.5 (see appendix A1), and are assessed according to following requirements. All the tested rink sections are to meet the requirements. There is no restriction regarding rink colours.

### 2.4.1 Rink Dimensions

The rinks are to be designed with dimensions as shown in appendix B5. All the dimensions must conform to the standard.

a) rink height	$500 \pm 10$ mm
b) distance from rink bottom edge to playing surface	max 6 mm (including pads etc.)

### 2.4.2 Rink Radii

The rinks are to be designed with dimensions as shown in appendix B5. All the dimensions must conform to the standard.

c) rink top edge radius	min 17.5 mm, rounded back edge
d) section edge radius	$3 \pm 1$ mm
e) rink corner radius	$2000 \pm 500$ mm

### 2.4.3 Rink Section Fitment

The rinks are to be designed with dimensions according to appendix B5. All the dimensions must conform to the standard.

f) rink width of joint	$2 \pm 2$ mm
g) rink horizontal parallelism	$2 \pm 2$ mm
h) rink vertical parallelism	$2 \pm 2$ mm

### 2.4.4 Rink Surface Fineness

In order to avoid injury to players, the rinks are to be designed so that no rough edges, protruding supports, or other sharp objects are present.

### 2.4.5 Impact Test

Following the carrying out of tests, no rough edges, protruding supports or other sharp objects that could cause injury to players is to be evident.

### 2.4.6 Ball Rebound against Rink

Minimum 75 % rebound factor in accordance with appendix B5, section 2.2.6.

### 2.4.7 Rink weight per running meter

Maximum 5,5 kg

## 2.5 Face Mask

Facemasks (3 of each type) are tested according to SP-method 1506, section 5.6 (see appendix A1), and are assessed according to following requirements. The whole or part of the face guard can be produced of impact resistance, transparent plastic. All the tested face guards are to meet the requirements.

### 2.5.1 Face Mask Size

A measuring gauge, as described in SP-method 1506, section 5.6.2.3 (see appendix A1), should not be able to be inserted in any of the facemask's mesh openings whereby contact with the dummy head occurs. The size of stick blade measuring gauge is 70 x 8 mm.

Guidelines for the measurement of grille openings in the match situation (see appendix A10).

### 2.5.2 Impact Test

The facemask is to resist impact forces, corresponding to a puck with the velocity 10 m/s from three different angles, without deformation to the face guard whereby contact with the dummy head occurs.

### 2.5.3 Face Mask Net Marking

In order to avoid the mask net is changed to a non-approved net, the net is to have a negative IFF embossed marking. The IFF-marking is to be stamped onto a metal plate and welded/ hard-soldered to the net, placed on the left side of the mask. The marking is to be of such proportions and design that the information is clearly visible and is not removed under play.

## **2.5.4 Other Requisite Markings (only valid within the European Union)**

A face mask used in floorball is considered as a Personal Protective Equipment, PPE. By that, it must be CE-marked and fulfil the requirements of Regulation (EU) 2016/425.

There is no harmonised standard for Floorball face masks, so RISE (former SP) has developed an own test method for those products, which makes it possible to issue an EU-type examination certificate.

Proposal for marking of Floorball face masks

Regulation (EU) 2016/425 - PPE specifies requirements relating to the information that the manufacturer must provide with the product. Most harmonised standards have a part which specify what information must be provided and how the product is to be marked. However, as far as Floorball facemasks are concerned, there are no harmonised standards. RISE has interpreted the Regulations requirements and judged what marking must be provided on the product, and which information must be given in the instructions for use. See appendix A10, Chapter 1 and Chapter 2.

### 3 Supplier's In-House Inspection

The supplier is to have an in-house inspection guaranteeing products marked with the certification mark meet the requirements in the certification rules. The certificate holder shall state this in a declaration.

The following testing and inspection procedures are to be included in the in-house inspection.

Product type	Attribute (testing and requirements, see chapter 2)	Min allowed frequency
Stick	design weight dimensions shaft rigidity	1/100 manufactured
Ball	weight dimensions surface fineness	1/1000 manufactured 1/100 manufactured *
Goals	dimensions weight	1/10 manufactured
Rink	dimensions radii fit surface fineness	1/10 manufactured
Face mask	mesh size	1/10 manufactured

\* for small quantities, less than 2500 balls apply 1/100 manufactured.

#### 3.1 In-house journal

The model forms for internal records, as shown in section 3.1.1 - 3.1.5 are based on the minimum requirements in respect of manufacturer's own inspection that are required in accordance with SPCR 011. Manufacturers may naturally supplement these requirements with their own requirements or procedures.

##### 3.1.1 In-house journal - Ball

Date		Weight	Diameter	Hole diameter	Unevenness at joint				Sign

##### 3.1.2 In-house journal - Stick

Date	IFF sticker No.	Design	Weight	Length	Length to grip line	Width of grip line	Shaft curve radius	Rigidity	Sign



### 3.1.3 In-house journal - Goal

Date	IFF sticker No.	Weight	Width	Height					Sign

### 3.1.4 In-house journal - Rink

Date	IFF sticker No.	Height	Surface fineness	Top edge radius	Section edge radius	With at joint			Sign

### 3.1.5 In-house journal - Mask

Date	IFF sticker No.	Mesh size measure 1	Mesh size measure 2	Mesh size measure 3					Sign

## 4 Continuous surveillance

### 4.1 Application

Supervisory inspection is carried out by taking / or testing samples of products at the manufacturer's warehouse or by market surveillance. Checks are also made to all sampled certified products, to see if the brand and/or model is/are noted on certificates, if marking is correctly applied etc. The certificate holder may also report defects found during own inspection (see section 4.6).

Supervisory control means that the sampling and / or testing of the products is carried out at the manufacturer's warehouse for free and in according to a specified sampling / testing plan. The sampling of certified products can also take place by purchase on the open market and can be performed by RISE and / or IFF.

Supervisory inspection includes a requirement for the certificate holder to; on request submit inspection records for inspection.

### 4.2 Testing and Inspection

#### 4.2.1 Sampling

Sampling shall be carried out in such a way as to ensure that all certified products are inspected approximately once in every five years.

##### Sampling volume and frequency plan

Product type	Number shaft certificates	Frequency and Volume	No. of items to sample
Sticks	≥ 10 certificates ≥ 5 < 10 certificates < 5 certificates	1 time / year, 4 models 1 time / 2 years, 3 models 1 time / 3 years, 2 models	3 of each model.
Balls	≥ 1	1 time / 5 years, all models	5 of each model.
Goals	≥ 1	1 time / 5 years, all models	1 of each model.
Rinks	≥ 1	1 time / 5 years, all models	2 straight sections + 1 curve.
Face masks	≥ 1	1 time / 5 years, all models	1 of each model.

#### 4.2.2 Test methods and requirements

Testing in respect of the following characteristics will be carried out in accordance with SP-Method 1506, and the results will be assessed as described in Chapter 2.

Product type	Attribute
Sticks	design dimensions (a-, b-, c-, d-, f- and h- dimensions) shaft rigidity shaft impact strength
Balls	weight dimension (the a- dimension) surface fineness (at the joint) breaking stress rebound

Goals	dimensions drop net length weight
Rinks	dimensions radii section fit
Face masks	impact strength

#### **4.2.3 Inspection of marked equipment**

Supervisory inspection of certified products involves inspection of all marked equipment at the place of sampling or purchased, to determine whether the make and/or type of equipment are recorded on the certificate, if marking is correctly applied etc.

#### **4.2.4 Examination of after request submitted inspection records**

Supervisory inspection includes a requirement for the certificate holder to; after request submit inspection records for inspection.

### **4.3 Responses if products fail testing**

#### **4.3.1 Renewed testing**

If surveillance testing of a certified product gives negative results:

- the product shall be retested within two months.
- samples of products will be taken by market surveillance or directly from the holder of the certificate.
- the holder of the certificate will be asked to state, in writing, the reasons for the negative results, and
- to submit a copy of the company's inspection records for the product concerned.

#### **4.3.2 Results of renewed testing**

##### **4.3.2.1 Positive results of renewed testing**

The holder of the certificate will be notified in writing that no further actions will be taken, except that a lower sanctions fee as described in section 4.6.1 - 4 will be applied.

##### **4.3.2.2 Negative results of renewed testing**

The holder of the certificate will be notified in writing that the IFF Central Board will decide on sanctions in accordance with section 4.6.1 - 4. The severity of the sanctions will be related to the seriousness of the negative results. The higher scale of the sanction fee will be used.

### **4.4 Responses if products fail inspection**

#### **4.4.1 Failed inspection**

If inspection of the product or certified product gives negative results, the holder of the certificate will be asked to state, in writing, the reasons for the negative results.

#### **4.4.2 Results of examination of the written presentation**

##### **4.4.2.1 Positive results of examination of the written presentation**

The holder of the certificate will be notified in writing that no further actions will be taken, except that a lower sanctions fee as described in section 4.6.1 - 4 will be applied.

##### **4.4.2.2 Negative results of examination of the written presentation**

The holder of the certificate will be notified in writing that the IFF Central Board will decide on sanctions in accordance with section 6.4. 1 – 4. Sanctions will be appropriate to the seriousness of the negative results. The higher scale of the sanction fee will be used.

## **4.5 Responses if submitted inspection records are not approved**

The holder of the certificate will be notified in writing of shortcomings found in the inspection records. The holder of the certificate will be asked to submit, in writing, explanations for the shortcomings, with information on corrective measures applied.

### **4.5.1 Assessment of corrective measures applied**

1. The written presentation by the holder of the certificate describing the corrective measures applied is regarded as fulfilling the requirements, and no further steps will be taken.
2. The written presentation by the holder of the certificate describing the corrective measures applied is regarded as fulfilling the requirements, but the measures will be specifically assessed in connection with the next normal surveillance inspection.
3. The written presentation by the holder of the certificate describing the corrective measures applied is not regarded as satisfactory. A further written description is required, and/or an inspection visit.

## **4.6 Sanction System**

The International Floorball Federation IFF has implemented a sanction system to be applied to manufacturers in the event of failure of the surveillance inspection of material, sale of non-compliant marked equipment, not sending in accounting reports in time and not paid the invoices within the stipulated time as follows:

1. Surveillance inspection will be performed in accordance with the present system and regulations (SPCR 011 Material Regulations).
2. The manufacturer will perform in-house inspection and respond in accordance with the requirements of Paragraph 3.  
If surveillance inspection finds failures of materials, the company shall in accordance to the SPCR 011 Material Regulations provide an explanation of why the material has failed and shall provide a copy of its in-house test and inspection records for examination.
3. If the explanation does not provide a clear and suitable answer to the question, the IFF Central Board Material Function will decide upon the sanction to be applied to the company in accordance with the sanction system. The sanction system consists of four different levels (see section 4.6.1 - 4).
4. If an accounting report has not been received within stipulated time, a sanction fee will be applied.  
The sanction system consists of four different levels (see section 4.6.5).
5. If an invoice has not been paid within stipulated time, a sanction fee will be applied.  
The sanction system consists of four different levels (see section 4.6.6).
6. Certificates can with immediate effect temporarily be recalled. Temporarily recalled certificates will be published on IFF's website (see section 4.6.6.4 and section 5.7).
7. Revenue from sanction penalties shall be used to develop Floorball in accordance with IFF Development Board decisions. Sanction penalties must be paid to the IFF account within 30 days of the IFF Central Board decision.

The IFF Central Board will inform its member Associations and the companies about any decision made by the Central Board in material questions. All information regarding these questions is strictly confidential until the decision is made.

IFF reserves the right to adjust and / or update the sanction system on yearly basis.

## 4.6.1 Level 0

### 4.6.1.1 Types of non-compliances (first time discovered)

Typical examples of Level 0 non-compliances:

All items - discovered not to have name of certificate holder printed on the product, valid for stick, goal, rink and mask.
Stick - discovered not to have annual rate on the self-printed sticker.
Stick - discovered not to fulfil IFF-sticker design requirement on the self-printed sticker.
Stick - discovered not to fulfil the information of the new stick measuring system.

### 4.6.1.2 Action/Timetable

- The manufacturer to find the reason for the non-compliance and correct it within four weeks.
- Documentation of corrections to be sent to RISE within the same four weeks.
- IFF to decide.

### 4.6.1.3 Penalty

- If RISE finds the non-compliance during surveillance inspection, the penalty is admonition in written.

## 4.6.2 Level 1

### 4.6.2.1 Types of non-compliances

Typical examples of Level 1 non-compliances:

All items - discovered not to have name of certificate holder printed on the product, valid for stick, goal, rink and mask (repeated violation).
Stick - discovered not to have annual rate on the self-printed sticker (repeated violation).
Stick - discovered not to fulfil IFF-sticker design requirement on the self-printed sticker (repeated violation).
Stick - discovered not to fulfil the information of the new stick measuring system (repeated violation).
Blade - no embossed IFF-marking on the blade (repeated violation).
Blade - no embossed brand-marking on the blade (repeated violation).
Stick - incorrect grip-line placing and/or design.
Stick - protruding screws exceeding + 1,0 mm.
Blade - protruding plastic blip exceeding + 1,0 mm.
Ball - protruding plastic blip exceeding + 0,5 mm.
Goal - protruding metallic blip exceeding +1,0 mm.
Rink - protruding plastic/metallic blip exceeding + 1,0mm.

### 4.6.2.2 Action/Timetable

- The manufacturer to find the reason for the non-compliance and correct it within four weeks.
- Documentation of corrections to be sent to RISE within the same four weeks.
- IFF to decide.

### 4.6.2.3 Penalty

- If RISE finds the non-compliance during surveillance inspection, the penalty is in the range of a minimum of CHF 500 to a maximum of CHF 2,000.

### 4.6.3 Level 2

#### 4.6.3.1 Types of non-compliances

Typical examples of Level 2 non-compliances:

All items - IFF-mark exceeding rules and measurements as set out in SPCR 011.
All items - IFF-mark discovered not to have been registered.
Stick - discovered not to fulfil IFF-sticker design requirement on the self-printed sticker (if found to be intentional).
All items - IFF-mark discovered not fulfilling the requirement for the marking of brand name.
All items - IFF-mark discovered to have incorrect certification number.
Face mask - exceeding the required dimension on maximum two facemask's mesh openings.
Stick - incorrect grip-line placing and/or design. (if found to be intentional and/or a repeated violation).
Stick - protruding screws exceeding + 1,0 mm. (if found to be intentional and/or a repeated violation).
Blade - protruding plastic blip exceeding + 1,0 mm. (if found to be intentional and/or a repeated violation).
Ball - protruding plastic blip exceeding + 0,5 mm. (if found to be intentional and/or a repeated violation).
Goal - protruding metallic blip exceeding +1,0 mm. (if found to be intentional and/or a repeated violation).
Rink - protruding plastic/metallic blip exceeding + 1,0mm. (if found to be intentional and/or a repeated violation).
Stick - exceeding the total weight.
Blade - blade colour discovered not to have been tested.
Stick - exceeding the total length.
Stick - Shaft stiffer than allowed in the rules.
Stick - Breakpoint lower than allowed in the rules.
Blade - exceeding size measurements of the blade by over 1 % due to defective injection moulding.
Blade - R2 external radius, bottom radius R270.
Ball - exceeding/underpass the total weigh.
Ball - exceeding the required dimensions, breaking stress and rebound.
Goal - exceeding the total weight and required dimensions.
Rink - exceeding the required dimensions, radius and section fitment.

#### 4.6.3.2 Action/Timetable

- The manufacturer to find the reason for the non-compliance and correct it within four weeks.
- Documentation of corrections to be sent to RISE within the same four weeks.
- IFF to decide.

#### 4.6.3.3 Penalty

- If RISE finds the non-compliance during surveillance inspection, the penalty is in the range of a minimum of CHF 1.000 to a maximum of CHF 4.000.

#### 4.6.4 Level 3

##### 4.6.4.1 Types of non-compliances

Typical examples of Level 3 non-compliances:

All items - IFF-mark discovered not to have been certified.
All items - IFF-mark discovered not to have been tested.
All items - IFF-mark items that have passed the SPCR 011 rules, and then have afterwards been changed such that they no longer comply with the rules, so that the manufacturer is in clear breach of the SPCR 011 rules.
Face mask - exceeding the required dimension on facemask's mesh openings and impact strength.
Stick - Exceeding the total length (if found to be intentional and/or a repeated violation).
Stick - Shaft stiffer than allowed in the rules (if found to be intentional and/or a repeated violation).
Stick - Breakpoint lower than allowed in the rules (if found to be intentional and/or a repeated violation).

##### 4.6.4.2 Action/Timetable

- The manufacturer to find the reason for the non-compliance and correct it within four weeks.
- Documentation of corrections to be sent to RISE within the same four weeks.
- IFF to decide.

##### 4.6.4.3 Publication

A publication of the incident on IFF's web site

##### 4.6.4.4 Publication/Penalty

- If RISE finds the non-compliance during surveillance inspection, the penalty is in the range of a minimum of CHF 2.500 to a maximum of CHF 10.000.
- The manufacturer's certificate will be withdrawn, after a written resolution from IFF, if the non-compliance has not been corrected and reported back to RISE within eight weeks
- A new certificate can be applied for to RISE or another test institute (see Appendix A2).
- Publication of a notice that the item does not comply with IFF rules and that any player should contact the company directly.
- IFF will send a list of failed items to all IFF member associations.

##### 4.6.4.5 Additional rules

IFF can grant a longer timetable if it is needed in order to provide a fair chance of finding and correcting the non-compliance.

##### 4.6.4.6 Waiver

Some players make their own sticks, swapping shafts and blades.

Some cut the shaft at the bottom to save the grip when adjusting the shaft length. This will have the effect of automatically making the position of the face-offline incorrect.

Manufacturers are responsible only for the original non-used item. If the blade, grip or shaft is modified, the manufacturer accepts no responsibility for the result, and will not be held responsible. No penalty will be levied on the manufacturer, and no details will be published.

#### **4.6.5 Sanctions for not sending accounting reports.**

From 15<sup>th</sup> of March 2004 stick manufactures can print the certification mark directly on the stick. To ensure that the correct fee for the certification mark is calculated, the manufacturer must three times a year send accounting reports to RISE. The report for Jan-Apr must be sent before 21<sup>st</sup> of May, the report for May-Aug before 21<sup>st</sup> of Sep and the report for Sep-Dec before 21<sup>st</sup> of Jan.

Ball manufactures shall have an embossed pattern of the certification mark on the balls surface. To ensure that the correct fee for the certification mark is calculated, the manufacturer must three times a year send accounting reports to RISE. The report for the period Jan – April must be sent before 21<sup>st</sup> of May, for the period May – Aug before 21<sup>st</sup> of Sep and for the period Sep-Dec before 21<sup>st</sup> of Jan.

It is very essential that these reports are correct and sent in time.

If an accounting report has not been received, a reminder will be sent out the first working day after the report date.

Sanction fees for not sending accounting reports in time.

Days counted from the date after last report day for each period.

##### **4.6.5.1 Level 1**

Sanction for being 1-7 days late with the report; CHF 100.

##### **4.6.5.2 Level 2**

Sanction for sending report 8-30 days late; CHF 300.

##### **4.6.5.3 Level 3**

Sanction for sending report 30-60 days late; CHF 500.

##### **4.6.5.4 Level 4**

Sanction for sending report more than 60 days late or sending incorrect report or non-compliance with payment for sanctions in level 1-3.

Sanction actions to be decided by IFF in each case.

#### **4.6.6 Sanctions for not paid the invoices within the stipulated time.**

Payment shall be submitted within 30 days from the date of the invoice unless otherwise specified.

Sanction fees for not paid the invoices within the stipulated time.

Days counted from the date after the invoice due day.

##### **4.6.7 4.6.6.1 Level 1**

Sanction for being 1-30 days late; interest\* on overdue payment + CHF 50\*\*.

##### **4.6.8 4.6.6.2 Level 2**

Sanction for being 31-60 days late; interest\* on overdue payment + CHF 100\*\*.

##### **4.6.9 4.6.6.3 Level 3**

Sanction for being 61-90 days late; interest\* on overdue payment + CHF 150\*\*.



Sanction for not paid the invoices after more than 90 days or non-compliance with payment for sanctions in level 1-3. All certificates will be temporary withdrawn and not be shown in the database of Certified Floorball Equipment. A publication on IFF's website will refer to the fact that the company's all certificates are temporarily withdrawn. The equipment may not be used in any international matches or sanctioned series games and that players are asked to contact the company immediately.

\* Interest = (payment x (reference rate + 8%)) / (360 x days since payment deadline).

\*\* Compensation for recovery costs.

## 4.7 Reporting

### 4.7.1 Supervisory inspection - Testing

- RISE will send a written report to the holder of the certificate on completion of testing.
- If the report is favourable, IFF will not be notified.
- If the report is unfavourable, IFF will be notified in writing, with a copy of the notification being sent to the holder of the certificate.

### 4.7.2 Supervisory inspection - Results of further testing

- RISE will send a written report to the holder of the certificate on completion of testing and will send a copy of the report to IFF.

### 4.7.3 Supervisory inspection - Failure of inspection

- RISE will send a written report to the holder of the certificate on completion of testing.
- IFF will be notified in writing, and a copy of this notification will be sent to the holder of the certificate.

### 4.7.4 Supervisory inspection - Inspection records

- RISE will send a written report to the holder of the certificate on completion of inspection.
- If the report is favourable, IFF will not be notified.
- If the report is unfavourable, IFF will be notified in writing, with a copy of the notification being sent to the holder of the certificate.

## 4.8 Miscellaneous

It's possible for any manufacturer of Floorball material to ask RISE or other test organisation (see appendix A2) to conduct any surveillance test of Floorball material according to SPCR 011 on their own expense.

## **5 Miscellaneous Conditions for Certification**

### **5.1 General**

The conditions in the certification rules herein are based on the principles established in RISE quality manual for certification. Subcontractors for type testing are to be approved by RISE Certification, see appendix A2.

### **5.2 Certificate Holder's Responsibility**

The certificate holder is responsible for making sure the manufactured product covered by the certificate and marked with the certification mark conforms to the certified product according to the certificate in every respect, and that the products are suitable for their purpose and not capable of causing injury or inconvenience. This applies even if the certificate holder is not the supplier of the product.

### **5.3 Certificate Holder's Right to Use IFF's Certification Mark**

The certificate holder has the right to mark the products covered by the certificate with the certification mark and, in addition, has the right to use the mark when advertising or for other promotion of the products. Advertising is not permitted where confusion could arise between marked and unmarked products.

### **5.4 RISE Responsibility**

RISE is responsible for making sure the technical requirements in the certification rules are based on available knowledge and experience, recognised standards or corresponding specifications and those they correspond to the International Floorball Federation's rules.

RISE is responsible for making sure that certified product – in accordance with reported documentation constituting the basis for the certificate – meet the requirements in the certification rules. RISE is not responsible for manufactured products.

### **5.5 Confidentiality**

All information RISE has access to is to be confidential with the following exceptions:

- RISE – or associate partner to RISE – keep registers of applicable certificates. The registers contain information on the certificate holder, certificate number, certified products and period of validity.
- RISE has the right to make public all decisions on recall of certificate and misuse of certificate or marking.
- IFF is to be informed on an on-going basis as to applications and modifications to the certificate.

### **5.6 Certificate**

The certificate is non-transferable. When transferring to another company, a new certificate is to be issued.

The design of the product certificate is outlined in appendix A8.

## 5.7 Recall of Certificate

RISE can, with immediate effect, permanently or temporarily, recall a certificate if:

- a) a written resolution from IFF state that the certificate holder has, in some other way, failed to meet the conditions of the certificate; or
- b) the certificate holder has misused RISE name in connection with products not meeting the necessary requirements; or
- c) the certificate holder has not paid the certification fees within the stipulated time; or
- d) the certificate holder has been declared bankrupt, gone into liquidation or transferred operations; or
- e) inaccuracies in the certificate come to light. However, the certificate holder is to be given reasonable time to readjust to changed circumstances, unless special reasons for another course of action are appropriate; or

IFF can, with immediate effect, by a written resolution, request RISE to, permanently or temporarily, recall a certificate if:

- a) the certificate holder has used the IFF's certification mark in connection with products not meeting the necessary requirements; or
- b) the certificate holder has used the certification mark for products not covered by the certificate; or
- c) the subsequent surveillance resulted in failure; or
- d) the certificate holder has, in some other way, failed to meet the conditions of the certificate; or
- e) the certificate holder has not paid the invoices for the IFF's certification mark.
- f) the certificate holder has not paid the sanction fees within the stipulated time; or
- g) the product proves to be unsuitable for its purpose or can cause injury or inconvenience.

Misuse of the certification mark and/or the certificate can, in addition to the recall of the certificate, lead to legal action.

## 5.8 Certificate Holder's Undertaking on Recall of Certificate

The certificate holder, on notification of recall of his certificate either permanently or temporarily, is to:

- a) immediately cease advertising or other promotional work relating to the certificate for the product in question.
- b) make sure that all marking is removed from products in stock, if required by RISE.
- c) pay all costs associated with replacing substandard products with those that meet the requirements in the current certification rules, if required by RISE.

## 5.9 Return of Certificate

For return of certificate, following temporary recall, the same rules apply as those for when the certificate was initially issued, see section 1.3. A renewed type testing process is not required if less than one year has passed since the certificate was recalled, unless the certification rules or production conditions have altered.

## 5.10 Revised Certification Rules

RISE reserves the right to modify the certification rules. For extension of a certificate submitted in line with previous rules, the certificate holder is required to observe the revised rules. However, the certificate holder is to be given reasonable time to adjust to the revised rules, unless special reasons for another course of action are appropriate.

## **5.11 Fees**

Fees for the initial assessment (certification), extension of period of validity and review of certificate are reported in a special price list and are to be paid by the certificate holder.

Fees for surveillance inspection are as per the rules in the agreement between the supplier and RISE.

Costs for other inspections according to section 5.12 are only charged to the certificate holder if the inspection shows that the requirements in the current certification rules have not been met.

## **5.12 Other Inspection**

RISE has the right to carry out checks to see if products provided with the certification mark meet the requirements of the current certification rules whenever and wherever it deems necessary.

## **5.13 Appeals**

Appeals against decisions made by RISE are to be made in writing to RISE. Consequent corrective measures resulting from any appeal are determined by RISE certification board.

# **SP-M 1506 Methods for Verification of Equipment Criteria for Floorball**

## **Method Description**

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Issued 2019-03-01

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Borås 2019

## **Abstract**

The purpose of this document is to state valid criteria and corresponding testing methods to be used in connection with certification of Floorball equipment, dealing with sticks, balls, goals, rinks and face masks. These rules, as well as methods, has been compiled by the RISE Research Institute of Sweden in collaboration with the Swedish Floorball Federation mainly in consideration of functional and safety requirements. In this version, the original criteria have been adjusted according to the instructions of the International Floorball Federation.

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## **Summary**

The purpose of this document is to state valid criteria and corresponding testing methods to be used in connection with certification of Floorball equipment, dealing with sticks, balls, goals, rinks and face masks. These rules, as well as methods, has been compiled by the RISE Research Institute of Sweden in collaboration with the Swedish Floorball Federation mainly in consideration of functional and safety requirements. In this version, the original criteria have been adjusted according to the instructions of the International Floorball Federation.

## 1 Objective

The objective of this presentation is to describe applicable evaluation methods and requirement criteria for use in connection with certification of Floorball equipment. The methods described relate to sticks, balls, rinks, goals and facemasks. IFF and RISE have developed the methods, with the main emphasis on functional and safety aspects.

## 2 Background

Floorball is a new and growing sport, for which the equipment is characterised by a rapid rate of development and a richness of variety. It was against a similar background that, working in conjunction with RISE, the Swedish Floorball Association developed and introduced an approval scheme for Floorball equipment, the objective of which was to monitor and check the development of equipment. Approval of equipment was introduced in Sweden in 1993 and was progressively modified on basis of experience over the next five years.

This version of the approval scheme for Floorball equipment is based on the IFF's views of the Swedish system and on its decisions relating to the scheme. Equipment to be approved by the IFF Floorball Equipment Approval Scheme must meet the requirements in respect of initial type-testing and of subsequent unannounced inspection of/at the manufacturer's or importer's premises. The underlying methods of evaluation and performance requirement levels are, in all essential respects, the same as in earlier versions.

## 3 Purpose, Area of Use

Test methods and requirement criteria are intended to ensure the quality, characteristics, dimensions and safety aspects of Floorball equipment, and form the basis for certification of Floorball equipment intended to display the IFF approval symbol.

## 4 References

ISO 291-1977 Standard atmospheres for conditioning and testing.

IFF Rules of the Game.

Swedish Ice Hockey Association testing methods.

ASTM D 2444-84 - Standard Test Method for Impact Resistance of Thermoplastic Pipe and Fittings by means of a Tup (Falling Weight)

ASTM D 4476-85 - Flexural Properties of Fibre Reinforce Pultruded Plastic Rods

BS 1892: Part 2: Section 2.11:1989 - Gymnasium equipment, Specification for practice and games netting and supporting trackways

ISO 8295 Plastics - Film and Sheet - Determination of Coefficient of Friction

EN-ISO 10256 section 6.7 Determination of penetration characteristics

EN-ISO 10256 section 6.8 Face protectors - Determination of impact resistance

ISO 3274:1996 - Geometrical Product Specifications (GPS) -- Surface texture: Profile method - Nominal characteristics of contact (stylus) instruments.

ISO 11562:1996 - Geometrical Product Specifications (GPS) -- Surface texture: Profile method -- Metrological characteristics of phase correct filters.

## 5 Testing

### 5.1 In General

If the Floorball equipment cannot be tested within the scope of the valid test method, i.e. due to specific product design, the institute has right to direct the applicant to IFF for a written statement of how the valid test methods and criteria shall be adjusted.  
(see appendix A3, Application form for testing).

#### 5.1.1 Testing Climate

The tests are to be carried out at  $23 \pm 2$  °C and  $50 \pm 5$  % RH unless otherwise stated.

#### 5.1.2 Length Measurement

The following accuracy and rounding off factors are applicable unless otherwise stated:

$\leq 100$ mm	accuracy $\pm 0.1$ mm, rounded off to 0.1 mm
$\leq 1000$ mm	accuracy $\pm 0.5$ mm, rounded off to 1.0 mm
$> 1000$ mm	accuracy $\pm 1.0$ mm, rounded off to 2.0 mm

#### 5.1.3 Weight Measurement

The following accuracy and rounding off factors are applicable unless otherwise stated:

$\leq 100$ g	accuracy $\pm 0.1$ g, rounded off to 0.1 g
$\leq 1000$ g	accuracy $\pm 0.5$ g, rounded off to 1.0 g
$\leq 10000$ g	accuracy $\pm 1.0$ g, rounded off to 2.0 g
$> 10000$ g	accuracy $\pm 10$ g, rounded off to 0.1 kg

## 5.2 Stick

### 5.2.1 Scope and Application

The purpose of the tests detailed below is to guarantee the quality of the stick regarding design, weight, blade discoloration onto the playing surface and dimensions as well as certain mechanical attributes such as rigidity, impact strength and fracture susceptibility (shaft).

The dimensions of the blade of the stick and the size of the mesh on the facemask are interconnected, for the purpose of preventing the blade from penetrating the facemask.

#### 5.2.2 Stick Design

##### 5.2.2.1 Equipment

Sponge of polyurethane.  
(E.g. car sponge without detergent.)

##### 5.2.2.2 Samples

Three sticks.

### **5.2.2.3 Implementation**

The sticks are examined both visually and with the aid of a sponge. The sponge is applied to the surfaces to detect possible rough edges and sharp objects e.g. protruding supports or an edge radius below 2 mm. Any possible coupling between the shaft and blade is inspected with respect to its design.

### **5.2.2.4 Results**

The occurrence of sharp objects and rough edges is reported.

## **5.2.3 Stick Weight**

### **5.2.3.1 Equipment**

Scales with an accuracy of  $\pm 0.5$  g.

### **5.2.3.2 Samples**

Three sticks.

### **5.2.3.3 Implementation**

The weight of the sticks is determined by means of weighing scales. If the sticks weigh under 380 g including grip binding, the weight can be reported. If the sticks weigh over 380 g including grip binding, the grip must be removed, and the stick is re-weighed.

### **5.2.3.4 Results**

Individual measurement values rounded off to 1 g are reported. If the value reported includes the grip binding this is to be specified in the report.

## **5.2.4 Stick Dimensions**

### **5.2.4.1 Equipment**

Suitable equipment for length measurements, e.g. steel rule, measuring tape, sliding callipers and equipment for measuring the blade's penetration depth as well as the blade's concavity depth and the blade height (appendix C1 and C12) with an accuracy factor specified in section 5.1.2.

### **5.2.4.2 Samples**

Three sticks.

#### 5.2.4.3 Implementation

Stick dimensions are measured according to appendices C2 and C3.

The blade's concavity depth is measured by placing the measuring device perpendicular to the lower edge radius. This is repeated along the entire length of the blade and the largest concave depth is recorded.

- a) stick length
- b) the shaft's curve radius
- c) the shaft's diameter
- d) length of grip line marking
- e) width of grip line design
- f) blade bottom edge radius
- g) blade edge radius
- h) blade length
- i) blade thickness
- j) blade height
- k) blade penetration depth
- l) blade concavity depth
- m) shaft straightness

#### 5.2.4.4 Results

Individual results reported are rounded off as specified in section 5.1.2.

### 5.2.5 Shaft Rigidity

#### 5.2.5.1 Equipment

Universal testing machine with a velocity of 200 mm/min is used during testing.

Printer or similar device to determine the deflection for various load factors is connected.

Cylindrical supports mounted in bearings with  $35 \pm 10$  mm diameter for 3-point deflection test with:

800 mm (method A, shafts 850mm or longer) or

600 mm (method B, shafts 650mm to 849mm)

between the centres of the supports. Cylinder with  $35 \pm 10$  mm diameter is used for applying the force. All the cylindrical supports are to have a lowering mechanism with  $15 \pm 5$  mm radius (appendix C4) where the shaft is located.

#### 5.2.5.2 Samples

Six sticks.

#### 5.2.5.3 Implementation

The stick is placed on the support without being attached. The load is applied by 200 mm/min in the middle of the shaft to a deflection of:

60 mm (method A) or

30 mm (method B)

whilst a force/displacement diagram is taken. The stick is to be loaded in 2 directions, with the point of the blade both vertical and horizontal. The shaft's resulting deformation following deflection is registered, whereby the value is read after 10 seconds. Three sticks are tested in each direction.

#### 5.2.5.4 Results

Mean value of three deflections in each direction (horizontal and vertical) at 300 N rounded off to 5/10 mm. Any occurrence of fracture is to be reported; otherwise the individual value of the force is reported at:

60 mm (method A) or

30 mm (method B) deflection in N.

The individual value of the resulting deformation following deflection is rounded off as specified in section 5.1.2.

### 5.2.6 Impact Strength

#### 5.2.6.1 Equipment

Drop hammer with a weight of  $350 \pm 10$  g. The head is to be of hardened steel and have a shape of a prism with triangular profile and with a longitudinal axis oriented horizontally - perpendicular

to direction of hammer movement. The bottom edge of the prism is to be a shape of semi-circle with a radius of 7 mm. A stand with a drop height of  $1000 \pm 5$  mm, from where the hammer is to be able to fall freely. A mechanism for repeat releasing of the drop hammer. Test holder of aluminium or steel and designed as a V-block with a length of 150 mm and inner  $90^\circ$  angle, with enough depth to enable the shaft to lie in the dip and not on the edges. A flat surface of thick aluminium or steel is to be used for the blade test.

#### 5.2.6.2 Samples

Three shafts and three blades. Those shafts tested as per point 5.2.5, where fracturing or any type of deformation did not occur can, in theory, be used for impact testing.

#### 5.2.6.3 Implementation

The testing is carried out in two places on the shaft, 700 mm from the end of the shaft, and 40 mm from the blade attachment. The shaft is placed in the holder with the point of the stick blade vertical. The drop hammer is released from a height of  $1000 \pm 5$  mm towards a point both 700 mm from the end of the shaft and 40 mm along the shaft taken from the blade attachment. The test is carried out on 3 shafts (appendix C5).

The blade is placed vertical by using support blocks and when placed flat on the surface. The drop hammer is released from a height of  $1000 \pm 5$  mm towards a point in the middle of the blade's top edge and when in the centre of the blade. The test is carried out on 3 blades.

#### 5.2.6.4 Results

The falling hammer could make a little spherically shaped imprint on the tested surface of the shaft and blade. This kind of imprint is permissible, if neither visible cracks nor fractures occur. Any cracks, fractures, loose parts or parts that fall away from the blade are to be reported.

### 5.2.7 Blade Radii

#### 5.2.7.1 Equipment

Measurement devices with a radius of 2 mm and 270 mm.

#### 5.2.7.2 Samples

Three blades.

#### 5.2.7.3 Implementation

Using the 2 mm measuring device, the peripheral radii around the blade are checked.  
Using the 270 mm measuring device, the bottom edge radius of the blade is checked.

#### 5.2.7.4 Results

Occurrences of radii < 2 mm are reported.  
Bottom edge radius > 270 mm is reported.

### 5.2.8 Blade Discoloration onto Playing Surface

#### 5.2.8.1 Equipment

Pendulum apparatus described in appendix C6. The mass of the bar, weight and test bit are to be such that the energy the stopping disc is met with is  $36 \pm 1$  Nm. The spring constant C is  $3.5 \cdot 10^4$  N/m. Lacquered sport parquet and Gerflor Taraflex Sport M Evolution 7,0 mm to be at least as high and at least as wide as the stopping disc. The sport parquet construction: At the bottom 6 mm plywood, intermediate layer 12 mm ribbed pinewood sheeting, wearing course 3.6 mm beech and five layers UV-hardened lacquer, Proteco (E.g. Tarkett Sport). Gerflor Taraflex construction: PVC sheets reinforced with fibreglass grid.

#### 5.2.8.2 Samples

Three stick blades. The end of the blade truncated to length of 100 mm.

#### 5.2.8.3 Implementation

The test bit is permanently mounted on the pendulum so that the end blade, when lowering the pendulum, moves towards the flooring sample 1/3rd from the top edge of the disc. The pendulum is released from an upright position. The flooring sample is inspected regarding discoloration – the European scale for colour coding is used as a colour reference. Three tests on each flooring samples are carried out: replacing the flooring sample or movement in the horizontal axis following each impact. Clean the flooring samples with water, a simple cleaner and paper before examination.

#### 5.2.8.4 Results

Occurrence of discoloration onto the flooring samples are reported.

### 5.2.9 Blade Torsion Test

#### 5.2.9.1 Equipment

An equipment to firmly secure the blade in the vertical position. An adjustable device that can be fitted over and cover the blade nose. A lever arm attached to the device as an aid when blade nose is to be twisted (as a lever, a torque wrench can be used), and a protractor.

#### **5.2.9.2 Samples**

Three stick blades.

#### **5.2.9.3 Implementation**

Mount the blade vertically, as close as possible to the shaft attachment point. Mount the adjustable device over the blade nose and adjust so that there is no clearance. Twist the blade to an angle of 45°, check with the protractor. The test is carried out on 3 blades.

#### **5.2.9.4 Results**

Occurrence of visible cracks, fractures, loose parts or parts that fall away from the blade is reported.

### **5.3 Ball**

#### **5.3.1 Scope and Application**

The purpose of the tests listed below is to guarantee the quality of the ball regarding weight, dimensions, rebound and strength.

All colours and colour combinations may be produced with embossed certification mark. Only white or red balls are allowed for use in league play, for other colours an exemption from IFF / Contest Committee is needed.

#### **5.3.2 Ball Weight**

##### **5.3.2.1 Equipment**

Scales with accuracy  $\pm 0.1$  grams.

##### **5.3.2.2 Samples**

Five balls.

##### **5.3.2.3 Implementation**

A scale is used to determine the weight of balls.

##### **5.3.2.4 Results**

Results are reported as individual measured results, rounded off as specified in section 5.1.3.

#### **5.3.3 Ball Dimensions**

##### **5.3.3.1 Equipment**

Sliding callipers, 71 mm internal cylindrical gauge and a graded measuring device with an accuracy specified in section 5.1.2.



#### **5.3.3.2 Samples**

Five balls.

#### **5.3.3.3 Implementation**

The ball diameter is measured in 5 areas on each ball. The diameters of the holes are checked using the measuring device in 5 randomly selected holes for each ball. The holes' internal placement at the joint is checked using the sliding callipers. Five randomly selected holes for each ball are measured in relation to the distance to nearby holes on the opposite half of the ball (appendix C7).

- a) ball diameter
- b) hole diameter
- c) internal placement of hole at joint
- d) internal placement of hole over joint

#### **5.3.3.4 Results**

The results are reported as individual measurements for each ball rounded off to 0.2 mm.

### **5.3.4 Ball Surface Fineness**

#### **5.3.4.1 Equipment**

Contact (stylus) instrument for measuring surface roughness and waviness (ISO 3274:1996) and sliding calliper.

#### **5.3.4.2 Samples**

Five balls.

#### **5.3.4.3 Implementation**

The surface fineness of the ball is determined by a contact (stylus) instrument. The negative embossed pattern fineness of the balls surface is measured if applicable as well as the depth of the pattern. Ball unevenness at the joint is measured using a sliding calliper.

Following parameters are used on the contact (stylus) instrument:

Measuring length: 6 mm

Form fit: LS-Arc (circular arc whose radius is determine according to the method of least squares)

Filter: Gaussian (ISO 11562:1996), cut-off: 0,25 mm (bandwidth 100:1)

#### **5.3.4.4 Results**

The average value of the surface fineness of the balls, the depth of the negative embossed pattern if applicable and possible unevenness at the joints are reported.

### **5.3.5 Number of Holes**

#### **5.3.5.1 Samples**

Five balls.

#### **5.3.5.2 Implementation**

The number of holes in the ball is checked.

#### **5.3.5.3 Results**

The number of holes in the ball is reported.

### **5.3.6 Breaking Stress of Material and Joint**

#### **5.3.6.1 Equipment**

Universal testing machine, with a speed of 100 mm/min under testing.  
Printer or similar device for registering the force.

#### **5.3.6.2 Samples**

Samples according to ISO 37, type 3, are to be used. Four samples are taken of each of the five balls, two without joint and two with joint.

#### **5.3.6.3 Implementation**

The balls are dissected so that the best possible level surface is achieved for perforation of the samples. Following measurement of the cross section of the sample surfaces, the samples are mounted one by one in the tensile testing machine at a tensile speed of 100 mm/min. The force is registered at point of fracture. The sample tests are run individually for samples with and without joints.

#### **5.3.6.4 Results**

The results from the tests are reported individually as an average value of the breaking stress rounded off to 0.1 N/mm<sup>2</sup>.

### **5.3.7 Rebound**

#### **5.3.7.1 Equipment**

When testing, use a ball release device, which operates smoothly without imparting any spin to the ball and which allows the ball to be dropped vertically from the specified height (appendix C8).

Acoustic recording apparatus, comprising a microphone and timing device, and giving a reading accurate to within 1ms.

The device is to be activated acoustically by the sound from the first bounce of the ball and deactivated by the sound from the second bounce, the time between these events being denoted  $T$ , in seconds.

#### **5.3.7.2 Samples**

Five balls.

### 5.3.7.3 Implementation

Set the ball gate device at the appropriate drop height for the ball,  $2000 \pm 10$  mm.

Ensure that the drop gate has a slight inclination and a hole with  $\varnothing 73 \pm 0,5 / 0$  mm and a length of  $30 \pm 2$  mm where the ball will drop down.

Drop the ball through the ball gate onto a stable metal plate with a smooth surface of minimum size  $500 \times 500$  mm and minimum thickness 10 mm.

The ball drop is to be at random.

If the second bounce is less than 50 mm from the edge of or outside the plate, exclude the drop and perform a new drop.

Record the time, T, between the first and second bounces.

Calculate the height, H, to which the ball rebounds using the following equation:

$$H = 1,23(T - K_1)^2$$

$$1,23 = g(9,82)/8 \quad \left( H = \frac{gt^2}{2} \quad t = \frac{A}{2} \quad H = \frac{g(\frac{A}{2})^2}{2} > \frac{gA^2}{8} > \frac{gA^2}{8} = 1,23A^2 \right)$$

T = time between the first and second bounces.

$K_1$  = correction factor (for measuring the sound when the ball leaves the surface)

Repeat the test 10 times and calculate the mean value of the rebound.

### 5.3.7.4 Results

The results are reported as individual values rounded off to 1 cm.

## 5.3.8 Ball Marking

### 5.3.8.1 Equipment

Sliding callipers with accuracy specified in section 5.1.2.

### 5.3.8.2 Samples

Five balls.

### 5.3.8.3 Implementation

Area calculation of all text, as well as checking the embossed print.

### 5.3.8.4 Results

The results are reported as approved or failed.

## 5.4 Goal

### 5.4.1 Scope and Application

The purpose of the tests listed below is to guarantee the quality of the goal apparatus with respect to dimensions and weight, pad discoloration onto the playing surface, drop net strength and the mesh size of the net.

## **5.4.2 Goal Dimensions**

### **5.4.2.1 Equipment**

Steel rule and radius template with an accuracy as specified in section 5.1.2.

### **5.4.2.2 Sample**

One goal.

### **5.4.2.3 Implementation**

The goal dimensions are measured according to appendix C9. The radii of the goal, which should not meet the playing surface, are checked using the radius template.

- a) goal width
- b) goal height
- c) back bar diameter
- d) goal frame diameter
- e) lower goal depth
- f) goal corner radius (radius of central axis)
- g) upper goal depth

### **5.4.2.4 Results**

Individual results are reported with rounding off as specified in section 5.1.2.

## **5.4.3 Goal weight**

### **5.4.3.1 Equipment**

Scale with accuracy  $\pm 10$  g.

### **5.4.3.2 Samples**

One goal with net.

### **5.4.3.3 Implementation**

The goal is weighed on the scale.

### **5.4.3.4 Results**

Goal weight is reported in kg to one decimal point.

## **5.4.4 Pad Discoloration onto Playing Surface**

### **5.4.4.1 Equipment**

As specified in section 5.2.8.1.

#### **5.4.4.2 Samples**

Three pads.

#### **5.4.4.3 Implementation**

The pads are mounted furthest out on the pendulum with the underside of the pad facing outwards. The tests are implemented thereafter as per section 5.2.8.3.

#### **5.4.4.4 Results**

The occurrence of discoloration on the test plate is reported.

### **5.4.5 Drop Net Strength**

#### **5.4.5.1 Equipment**

Weight with mass  $10 \pm 0.2$  kg. Device for attachment of weight to the net.

#### **5.4.5.2 Samples**

One goal with attachable net.

#### **5.4.5.3 Implementation**

The drop net is attached to the goal according to manufacturer instructions. The instructions are to include a specification for the top edge of the drop net to be fixed to the goal net. The goal is positioned so that the distance from the bottom edge of the goal to the playing surface allows for the weight to hang freely. The net is to be tested once for both outer edges and once in the middle. The weight is attached to two mesh openings next to each other, one mesh opening in from the outer edge and bottom edge of the net. The weight is hoisted up to a height equivalent to 2/3rds of the goal height. The weight is released and allowed to fall freely. Following each fall, the net and attachment device are inspected to see if they are intact. Three tests are carried out, one at each position.

#### **5.4.5.4 Results**

Any damage that has arisen to the net or attachment devices is reported.

### **5.4.6 Net Mesh Size**

#### **5.4.6.1 Equipment**

Steel rule.

#### **5.4.6.2 Samples**

One attachment net for one goal.

#### **5.4.6.3 Implementation**

Measurement of the net is carried out according to BS 1892:Part 2: Section 2.11.

#### **5.4.6.4 Results**

The mesh size is to be reported.

### **5.4.7 Drop Net Length**

#### **5.4.7.1 Equipment**

Steel rule.

#### **5.4.7.2 Samples**

One attachment net for one goal.

#### **5.4.7.3 Implementation**

Measurement of the drop net is carried out.

#### **5.4.7.4 Results**

The distance between the bottom edge of the net and the playing surface is reported.

## **5.5 Rinks**

### **5.5.1 Scope and Application**

The purpose of the tests listed below is to guarantee the quality of rinks about dimensions, ball rebound, weight, strength and durability.

### **5.5.2 Rink Dimensions**

#### **5.5.2.1 Equipment**

Steel rule or metal measuring tape with accuracy as specified in section 5.1.2.

#### **5.5.2.2 Samples**

Two rink sections.

#### **5.5.2.3 Implementation**

Testing takes place using a steel rule with three measuring points for each rink section (appendix C10).

a) rink height. roping needle

b) distance from the playing surface to the bottom edge of the rink (e.g. when using pads etc.).

#### **5.5.2.4 Results**

Individual results are reported with rounding off as specified in section 5.1.2.

### **5.5.3 Rink radii**

#### **5.5.3.1 Equipment**

Steel rule or metal measuring tape and radius template with an accuracy as specified in section 5.1.2.

#### **5.5.3.2 Samples**

Two rink sections.

#### **5.5.3.3 Implementation**

The steel rule or metal measuring tape is used for measuring the corner radius. The measurement is made using an upright corner section (appendix C10). The radius mall is used for measuring the top edge and short end. The radii are checked at three measuring points on each section of the rink.

- c) rink top edge radius
- d) rink edge radius
- e) rink corner radius

#### **5.5.3.4 Results**

Individual results are reported with rounding off as specified in section 5.1.2.

### **5.5.4 Rink Section Fitment**

#### **5.5.4.1 Equipment**

Steel rule with an accuracy as specified in section 5.1.2.

#### **5.5.4.2 Samples**

Two rink sections.

#### **5.5.4.3 Implementation**

The rink sections are mounted as per the manufacturer's instructions. The measurement is carried out with respect to the parallelism of the joint both vertically and horizontally as well as the width of the joint using three measuring points for each joint (appendix C10).

- f) rink joint width
- g) rink horizontal parallelism
- h) rink vertical parallelism

#### **5.5.4.4 Results**

Individual results are reported with respect to greatest level of nonconformity for each dimension f, g and h. Rounding off as specified in section 5.1.2.

### **5.5.5 Rink Surface Fineness**

#### **5.5.5.1 Equipment**

Sponge of polyurethane.  
(E.g. car sponge without detergent.)

#### **5.5.5.2 Samples**

Two rink sections.

#### **5.5.5.3 Implementation**

The rinks are examined both visually and with the aid of the sponge. The sponge is applied over the short sides of the rink, the top side and the surface resting on the playing surface in order to detect possible rough edges and sharp objects e.g. protruding supports.

#### **5.5.5.4 Results**

Type and positioning of any rough edges, sharp objects or other damage is reported.

### **5.5.6 Impact Test**

#### **5.5.6.1 Equipment**

Drop hammer with weight  $1000 \pm 50$  g. The head is to be of hardened steel and have a shape of a cone terminated with spherical top with a radius of 7 mm. Stand, where the drop hammer can fall freely from a drop height of  $400 \pm 5$  mm. Equipment for repeated release of the drop hammer. Test holder with minimum dimensions of 200 x 200 mm and thickness  $20 \pm 1$  mm. Sponge.

#### **5.5.6.2 Samples**

One rink section.

#### **5.5.6.3 Implementation**

The rink is mounted in the test holder so that the surface of the rink, which normally faces the playing area, faces upwards. The drop hammer is released from a height of 400 mm. The test is carried out in five different places on the rink. The appearance of the points of impact, where the drop hammer has hit the rink, is noted. The rink is examined both visually and with the aid of the sponge. The sponge is applied over the points of impact in order to detect possible rough edges and sharp objects e.g. protruding supports.

#### **5.5.6.4 Results**

The appearance of the points of impact, and the occurrence of protruding objects following the test are reported.



### **5.5.7 Ball Rebound from Rinks**

#### **5.5.7.1 Equipment**

Test holder of aluminium or steel with dimensions of 200 x 200 mm and thickness of 10 mm. Sliding callipers and a ball.

#### **5.5.7.2 Samples**

One rink section.

#### **5.5.7.3 Implementation**

To begin with, a series of tests are carried out in line with point 5.3.7.3 to be used as reference values. The rebound test from the rinks is carried out in line with point 5.3.7.3, but with a piece cut out of the rink section and mounted in the test holder acting as a rebound surface. The dimensions of the cut piece are to be the same as the test holder. The test piece is mounted so that the ball rebounds against the side facing the playing area. Five rebound tests are carried out.

#### **5.5.7.4 Results**

The results are reported in relation to the rebound against the steel plate according to point 5.3.7.3 as an average value in per cent rounded off to 1 %.

### **5.5.8 Rink Weight per running meter**

#### **5.5.8.1 Equipment**

Scale with accuracy  $\pm 10$  g.

#### **5.5.8.2 Samples**

Two rink sections.

#### **5.5.8.3 Implementation**

The rink sections are weighed on the scale. The length of each rink section is measured and the weight per running meter is calculated as a mean value of the two rink sections.

#### **5.4.3.4 Results**

Rink weight per running meter is reported in kg to one decimal point.

## **5.6 Face Mask**

### **5.6.1 Scope and Application**

The purpose of the tests listed below is to guarantee the quality of the facemask with respect to strength and protrusion of stick blade.

The mesh size for the face masks and the dimensions of the stick blade are interconnected in order to prevent the blade from penetrating the facemask.

### **5.6.2 Face Mask Net Size**

#### **5.6.2.1 Equipment**

Dummy head with dimensions as specified in EN 967 [EN 960], annex B. Stick blade measuring device.

#### **5.6.2.2 Samples**

One facemask.

#### **5.6.2.3 Implementation**

The tests are carried out according to EN 10256, point 6.7, with disparity for the dimensions (70 x 8 mm) of the measuring device appendix C12. The facemask is to be mounted on the dummy head according to manufacturer recommendations when testing. Attempts are made to contact the dummy head by inserting the measuring device into all the net mesh openings.

#### **5.6.2.4 Results**

A report is made as to whether the dummy head is affected or not. If contact is made, the current net mesh placement is specified.

### **5.6.3 Impact Test**

#### **5.6.3.1 Equipment**

Dummy head with dimensions according to EN 967 [EN 960], annex B (appendix C11). Equipment for impacts, measurement and registration according to EN 10256, point 6.8.

#### **5.6.3.2 Samples**

Three facemasks.

#### **5.6.3.3 Implementation**

The tests are carried out according to EN 10256, point 6.8, section eyes and teeth protection. The face-mask is to be mounted on the dummy head according to manufacturer recommendations when testing. The puck is released with a velocity of 10 m/s (36 km/h). Following each impact, the dummy head is inspected to see if contact has been made from the deformed protective net. The tests are carried out from three different angles, according to

point 6.8 in EN 10256. Any other damage to the face mask, such as cracks, broken attachments and welds etc. are noted.

#### **5.6.3.4 Results**

A report is to be made as to whether the facemask has met the dummy head or not, including any damage to the facemask.

## **6 Report**

Each test report is to include the following information as a minimum requirement.

### **6.1 Name and Address**

Name and address of the testing laboratory and information on testing site, if different to that of the specified address.

### **6.2 Identification**

Unambiguous identification of the test report and of each page as well as information on the total number of pages in the report.

### **6.3 Client**

Client's name and address.

### **6.4 Test Items**

Description and identification of test items.

### **6.5 Date**

The arrival date of the test item and time of test implementation along with the issue date of the report.

### **6.6 Method**

Description and identification of method or routine.

### **6.7 Sampling**

Description of sample procedure in appropriate cases.

### **6.8 Nonconformity, Additions or Exceptions**

Information relating to each instance of nonconformity, addition or exception from the testing method.

## **6.9 Results**

Information on measurement procedures and attained results, in appropriate cases backed up by charts, diagrams, etc. along with information on observed defects.

## **6.10 Signature**

Signature with title, or other equivalent confirmation, of personnel responsible for the tests.

## **6.11 Report**

A statement stating that reproduction of the report can only be made in its entirety, unless otherwise permitted in writing from the testing laboratory.

## **Provisions for acceptance of other testing, certification and inspection bodies.**

The International Floorball Federation - IFF - has stated that, if other test organisations wish to be approved for initial type testing in connection with certification, they shall be inspected and approved by RISE, the Research Institute of Sweden. Such inspection by RISE Certification will be in accordance with EN-ISO/IEC 17025 and by means of comparison testing intended to ensure the consistency of test and inspection results.

If the test organisation is already accredited to EN-ISO/IEC 17025 by an accreditation body that is recognised by the European Accreditation organisation (EA), then only comparison testing intended to investigate consistency of test results will need to be performed.

Application for acceptance shall be forwarded to RISE Certification who will set up a programme for the evaluation. A contract shall be signed by the testing body and RISE Certification.

## Application form for testing

The undersigned hereby order testing of floorball equipment.

Company: \_\_\_\_\_

VAT no.: \_\_\_\_\_

Postal address: \_\_\_\_\_

Visit address: \_\_\_\_\_

Postal no. and town: \_\_\_\_\_

Telephone no.: \_\_\_\_\_ Telefax no.: \_\_\_\_\_

E-mail: \_\_\_\_\_ Homepage: \_\_\_\_\_

Contact person: \_\_\_\_\_

### Product

Stick: numbers of models: \_\_\_\_\_ *Specify model no./name and another info*  
Ball: numbers of models: \_\_\_\_\_ *for the products the other side of this form*  
Goal: numbers of models: \_\_\_\_\_  
Rink: numbers of models: \_\_\_\_\_ Numbers of rink segment \_\_\_\_\_ per rink  
Face mask: numbers of models: \_\_\_\_\_

### Annual production

Sticks: total quantity: \_\_\_\_\_ pcs  
Balls: total quantity: \_\_\_\_\_ pcs  
Goals: total quantity: \_\_\_\_\_ pcs  
Rinks: total quantity: \_\_\_\_\_ pcs  
Masks: total quantity: \_\_\_\_\_ pcs

For testing: \_\_\_\_\_ the \_\_\_\_\_  
*City and date*

\_\_\_\_\_  
*Sign*

\_\_\_\_\_  
*Clarification of signature*

[illegible]

## Application form for certification

The undersigned hereby order certification of Floorball equipment.

Company: \_\_\_\_\_

VAT no.: \_\_\_\_\_

Postal address: \_\_\_\_\_

Visit address: \_\_\_\_\_

Postal no. and town: \_\_\_\_\_

Telephone no.: \_\_\_\_\_ Telefax no.: \_\_\_\_\_

E-mail: \_\_\_\_\_ Homepage: \_\_\_\_\_

Contact person: \_\_\_\_\_

### Product

On the reverse of this form, state the model number/name and other information for the product.

### Test report

We attach test report no: \_\_\_\_\_

Testing is being performed by: \_\_\_\_\_

### Supplier's In-House Inspection

We attach a brief description of our quality system: \_\_\_\_\_

### Marking proposal

We attach a description of how certification labelling is applied: \_\_\_\_\_

### Signature

For certification:

\_\_\_\_\_ the \_\_\_\_\_  
*City and date*

\_\_\_\_\_  
*Sign*



Clarification of signature

Type of equipment (stick, ball etc.)	Model name (e.g. Super Pro)	Drawing number (e.g. SPX-1110)	Remarks (e.g. SPX-1110 and 1120 has the same shaft construction but different blades)

The products will be sold in:

Country	Region	Country	Region

## Order form for certification marks

The undersigned hereby orders certification symbol labels as specified below

Company: \_\_\_\_\_

Contact person: \_\_\_\_\_

### Order of certification marks.

Product	Size	Quantity	Unit price	Total price (exclusive freight costs)
Ball			0:03 CHF	
Stick	45 x 19 mm		0:25 CHF (self-print) 0:38 CHF (buying sticker)	
Goal	90 x 38 mm		5:00 CHF (official match size) 2:50 CHF (smaller sizes)	
Rink	90 x 38 mm		100 CHF	
Mask	45 x 19 mm		0:75 CHF	

Order of certification marks: \_\_\_\_\_ the \_\_\_\_\_  
*City and date*

\_\_\_\_\_  
*Sign*

\_\_\_\_\_  
*Clarification of signature*

## Design of test report

Xxxx AB  
Att. Nnnn Mmm  
Box xxx  
100 00 Xxxxxx

Handläggare, enhet/Handled by, department	Datum/Date	Beteckning/Reference	Sida/Page
Lars-Åke Henriksson, Mat. Technology, låh 20xx-xx-xx		Fxxxxxx	1 (3)
Tel +46 (0) 33 16 53 21			

## 6 Testing of floorball equipment in accordance with SP-METHOD 1506

### Items

1. 10 Floorball balls with the model name: Nnnnnn.
2. 6 Floorball sticks with the model name: Nnnnnn.
3. 1 Floorball goal with the model name: Nnnnnn.
4. 1 Floorball rink with the model name: Nnnnnn.
5. 3 Floorball face masks with the model name: Nnnnnn.

Test items 1 - 5 were made available to the RISE Research Institute of Sweden xx nnnnn 20xx.

### Assignment

Testing of Floorball stick in accordance with SP-METHOD 1506, point 5.2.  
Requirement criteria as per SPCR 011, point 2.1.

Testing of Floorball ball in accordance with SP-METHOD 1506, point 5.3.  
Requirement criteria as per SPCR 011, point 2.2.

Testing of Floorball goal in accordance with SP-METHOD 1506, point 5.4.  
Requirement criteria as per SPCR 011, point 2.3.

Testing of Floorball rink in accordance with SP-METHOD 1506, point 5.5.  
Requirement criteria as per SPCR 011, point 2.4.

Testing of Floorball face mask in accordance with SP-METHOD 1506, point 5.6.  
Requirement criteria as per SPCR 011, point 2.5.

## Testing Equipment

- Scale, Mettler
- Sliding callipers, Mitutoyo
- Steel rule
- Radius template
- Universal testing machine, Instron
- Universal testing machine, Frank
- Rebound testing equipment in accordance with SP-METHOD 1506
- Impact testing equipment in accordance with SP-METHOD 1506
- Friction testing equipment in accordance with SP-METHOD 1506
- Testing equipment for discoloration test in accordance with SP-METHOD 1506
- Stick blade measurement device in accordance with SP-METHOD 1506
- Dummy head in accordance with prEN 967
- Impact testing equipment in accordance with prEN 967
- Contact (stylus) instrument

## Test Implementation

All sticks and samples taken from sticks were stored and tested at  $23 \pm 2$  °C and  $50 \pm 5$  % RH.

The tests were carried out in accordance with SP-METHOD 1506, point 5.2 and assessed in accordance with the requirement criteria in SPCR 011, point 2.1.

All the ball and samples taken from balls were stored and tested at  $23 \pm 2$  °C and  $50 \pm 5$  % RH.

The tests were carried out in accordance with SP-METHOD 1506, point 5.3 and assessed in accordance with the requirement criteria in SPCR 011, point 2.2.

The goal was stored and tested at  $23 \pm 2$  °C and  $50 \pm 5$  % RH.

The tests were carried out in accordance with SP-METHOD 1506, point 5.4 and assessed in accordance with the requirement criteria in SPCR 011, point 2.3.

All rink sections and samples taken from sideboard sections were stored and tested at  $23 \pm 2$  °C and  $50 \pm 5$  % RH.

The tests were carried out in accordance with SP-METHOD 1506, point 5.5 and assessed in accordance with the requirement criteria in SPCR 011, point 2.4.

All face mask was stored and tested at  $23 \pm 2$  °C and  $50 \pm 5$  % RH.

The tests were carried out in accordance with SP-METHOD 1506, point 5.6 and assessed in accordance with the requirement criteria in SPCR 011, point 2.5.

The test was carried out xx - xx nnnnnn 20xx.

## Results

Tested sticks with the model name “Nnnnnn” met the requirements as per SPCR 011. (See appendix 1 for individual measurement results.)

Tested balls with the model name “Nnnnnn” met all requirements except point 3.2.3 "surface fineness", as per SPCR 011 (See appendix 2 for individual measurement results.)

Tested goal with the model name “Nnnnnn” met the requirements, as per SPCR 011. (See appendix 3 for individual measurement results.)

Tested rink sections with the model name “Nnnnnn” met the requirements as per SPCR 011. (See appendix 4 for individual measurement results.)

Tested facemask with the model names “Nnnnnn” met the requirements as per SPCR 011. (See appendix 5 for individual measurement results.)

## X - Institute

Nnnn Mmmm  
Manager

Nnnn Mmmm  
Technical Manager/Officer

## Appendices

Measuring results

Appendix 1 to the report

Nnnnnn		Stick 1	Stick 2	Stick 3
Design		No remark	No remark	No remark
[sharp objects, rough edges]				
Weight		xxx *	xxx *	xxx *
[grams]				
Dimensions	(a) <sup>1</sup>	xxx	xxx	xxx
[mm]	(b) <sup>2</sup>		xxx	xxx xxx
	(c) <sup>3</sup>		xxx	xxx xxx
	(d) <sup>4</sup>		xxx	xxx xxx
	(e) <sup>5</sup>		xxx	xxx xxx
	(h) <sup>6</sup>		xxx	xxx xxx
	(i) <sup>7</sup>		xxx	xxx xxx
	(j) <sup>8</sup>		xxx	xxx xxx
	(k) <sup>9</sup>		xxx	xxx xxx
	(l) <sup>10</sup>		xxx	xxx xxx
	(m) <sup>11</sup>		xxx	xxx xxx
Rigidity**		28,2 (mean value of six deflection three in each direction)		
[mm] <sup>12</sup>		26,5 (lowest individual value)		
[N] <sup>13</sup>		602	584	586
[mm] <sup>14</sup>		1,1	0,6	0,6
[N] <sup>15</sup>		652	645	663
[mm] <sup>16</sup>		0,4	0,7	0,4
Impact strength	700 mm	No remark	No remark	No remark
[cracks]	40 mm	No remark	No remark	No remark
	blade ***	No remark	No remark	No remark
Blade radii	(f) <sup>17</sup>	No remark	No remark	No remark
	(g) <sup>18</sup>	No remark	No remark	No remark
Blade Discoloration		No remark	No remark	No remark
Blade Torsion Strength ***		No remark	No remark	No remark
Stick markings		Fulfil (New length system and contact information)		
Blade markings		Fulfil (Brand and IFF)		

\* Grip included

\*\* Rigidity test performed without taking binding grip off.

\*\*\* Blade without other plastic materials/laminates.

1 Stick length	8 Blade height	15 Force at 60 mm deflection, horizontal direction
2 Shaft's curve radius	9 Blade penetration depth	16 Remaining deformation, horizontal direction
3 Shaft's max diameter	10 Blade concavity depth	17 Blade radius
4 Length to grip line	11 Shaft straightness	18 Blade edge radius
5 Width of grip line	12 Deflection at 300 N	
6 Blade length	13 Force at 60 mm deflection, vertical direction	
7 Blade thickness	14 Remaining deformation, vertical	

## Design of agreement

### Agreement concerning material regulations SPCR 011

The following agreement has this day been reached between Research Institute of Sweden (RISE) and Company X (organisation number xxxxxx xxxx).

#### 1. Purpose

To ensure that type tested and approved equipment for Floorball are manufactured according to SPCR 011, and that the manufacturer will comply with SPCR 011 in all aspects.

#### 2. Extent

RISE will perform market surveillance in accordance with SPCR 011.

RISE will submit a written report on each supervisory inspection that it performs. If results do not comply with the required standards, measures shall be taken by Company X in accordance with SPCR 011. Company X shall keep RISE informed of the countries in which he sells his certified Floorball equipment. Company X shall, when applicable according to SPCR 011 or other information, send accounting reports concerning stick production.

#### 3. Costs and other terms and conditions

The costs of inspection in accordance with this agreement and of associated testing shall be met by IFF and if testing gives a negative result the renewed testing shall be met by Company X. This agreement is subject to the terms and conditions as set out in SPCR 011 and RISE 's General Conditions.

Company X accepts to pay fines according to SPCR 011 section 4.6 if not complying with the rules.

#### 4. Validity of this agreement

This agreement comes into force when it has been signed by both parties. Notice of termination shall be given in writing and may be given by either party. The agreement shall then cease to apply three months after notice of termination. If Company X fails to comply with the terms of this agreement, and if such non-compliance is not negligible, RISE shall be entitled to terminate the agreement with immediate effect.

Two copies of this Agreement have been prepared and signed, with one copy being retained by RISE and one by Company X.

Place and date

Borås, \_\_ \_\_ 2020

**RISE Research Institute of Sweden**  
Chemistry and Materials Technology

Nnnnnnn Nnnnnnnnnnn

Place and date

\_\_\_\_\_, \_\_ \_\_ 2020

**Company X**

Nnnnnnn Nnnnnnnnnnn

## CERTIFICATE

**Holder/Issued to**

Company name:  
Address:  
Postal address:  
Country:  
Telephone:  
Mobile:  
E-mail:

**Company**  
Street  
SE-123 45 City  
Sweden  
+46-00-000 00 00  
+46-000-000 000  
nnnnn.nnnnnn@xxxxxxx.com

**Product name**

For actual brand and model names see the website Certified Floorball Equipment Database.

**Product description**

Floorball stick shaft is made of carbon fibre and with a round shape. The stick length is between 950 – 1140 mm, the shaft's flex is XX mm and has a diameter of XX mm according to drawing No. XXXXXXXX, dated: yyyy-mm-dd. Approved blades according to table in certificate No. XX XX XX.

**Attribute**

Complies with the regulations of International Floorball Federation (IFF) for league play

**Performance requirements**

RISE's Certification Rules for Floorball Equipment, SPCR 011 edition 2016.

**Marking**

Every product covered by this certificate may show the symbol of IFF (reproduced at the bottom right) and the text "SPCR 011". The marking shall also include the name of the manufacturer or his logotype or the product name. The marking shall be placed as specified in SPCR 011.

**Validity**

This certificate is valid until not later than yyyy-mm-dd.

**Miscellaneous**

The certificate was originally issued on yyyy-mm-dd.  
RISE internal no. xxxxxxxx.

NN

NN

Certificate No. XX XX XX | issue 1 | YYYY-MM-DD

**RISE Research Institutes of Sweden AB | Certification**

Box 857, SE-501 15 Borås, Sweden

Phone: +46 10 -516 50 00

certifiering@ri.se www.ri.se





# 1. The requirements of the Regulation

(valid only within the European Union)

The text below is an extract of annex II, part 1.4 of the Regulation (EU) 2016/425, and specifies the requirements on information supplied.

Note that there shall also be a postal address, either on the equipment itself or in the applied information. At this postal address it shall be possible to reach the manufacturer or his representative.

## Manufacturer's instructions and information

In addition to the name and address of the manufacturer, the instructions that must be supplied with the PPE must contain all relevant information on:

- (a) instructions for storage, use, cleaning, maintenance, servicing and disinfection. Cleaning, maintenance or disinfectant products recommended by manufacturers must have no adverse effect on the PPE or the user when applied in accordance with the relevant instructions.
- (b) performance as recorded during relevant technical tests to check the levels or classes of protection provided by the PPE.
- (c) where applicable, accessories that may be used with the PPE and the characteristics of appropriate spare parts.
- (d) where applicable, the classes of protection appropriate to different levels of risk and the corresponding limits of use.
- (e) where applicable, the month and year or period of obsolescence of the PPE or of certain of its components.
- (f) where applicable, the type of packaging suitable for transport.
- (g) the significance of any markings (see point 2.12).
- (h) the risk against which the PPE is designed to protect.
- (i) the reference to this Regulation and, where applicable, the references to another Union harmonisation legislation.
- (j) the name, address and identification number of the notified body or bodies involved in the conformity assessment of the PPE.
- (k) references to the relevant harmonised standard(s) used, including the date of the standard(s), or references to the other technical specifications used.
- (l) the internet address where the EU declaration of conformity can be accessed.

The information referred to in points (i), (j), (k) and (l) need not be contained in the instructions supplied by the manufacturer if the EU declaration of conformity accompanies the PPE.

## 2. RISE's proposal for marking and information, Floorball face masks.

### Manufacturer's instructions and information

This information must be written in the language of the country of sale, and must contain the following information:

- The name and postal address of the manufacturer and/or of his representative in the EU.
- Instructions for cleaning, storage and care.
- A warning against the use of unsuitable cleaning substances.
- Instructions for appropriate handling for transport.
- If applicable:  
Information concerning decorations etc. on the face mask, with the manufacturer either prohibiting all painting, the application of decals etc., or describing which methods, paints, decals etc. that may be used, bearing in mind the materials of which the mask is made. The manufacturer may also refer to companies, persons etc. authorised by him for the application etc. of such decorations etc.
- Instructions on how to put on and remove the face mask, and how to adjust it for the correct fit.
- A warning that it is important that the mask is a good fit and that it is securely fastened in position.
- Information on the limitations of the mask, i.e. that it is intended solely to protect the face when playing Floorball with a light, soft ball. It is not intended or approved to provide protection against falls etc.
- A statement that the mask fulfils the requirements of SP-Method 1506.
- A reference to the Regulation (EU) 2016/425
- Notes on which spare parts and any accessories that are approved.
- Advice to check the mask before use, looking for indication of damage, and to dispose of the mask if it shows signs of damage that could reduce its protection or even cause injury to the user or to others (e.g. broken welds in the grille).
- If the manufacturer is of the opinion that the life of the mask is limited, a date by which the mask must be disposed of must be stated.
- An explanation of the marking on the mask.
- The name and address of the Notified Body that has performed the EU-type examination  
For RISE:

EU-type examination performed by:

RISE Research Institute of Sweden  
Box 857  
SE-501 15 BORÅS  
Sweden  
Notified Body no. 0402

## 7      2.1      Marking on the product

The marking shall be made in such a way that the information is easily legible by the user and is likely to remain legible during the expected life span of the product.

The marking shall at least contain:

- The name or designation of the product.
- The manufacturers or the distributors name or trademark.
- The postal address (can be in the instructions for use, see )
- The text (in the language of the country of sale)  
    **"Face protector for Floorball/Ansiktsskydd för innebandy.**  
    **Warning/Varning!**  
    **Do not use when playing with hard heavy ball or puck! / Får ej användas vid spel med**  
    **hård tung boll eller puck!"**
- Size (if relevant).
- Year and quarter of manufacture (or month, week).
- A request to read the applied instructions/information sheet (can be made in form of a symbol).
- The CE-mark (Note that the product is considered as a PPE and shall within the European Union bear the CE-mark. To be able to use the CE-mark, the product must be EU-type Examined by a Notified Body!).
- The IFF-mark, see 1.3.2.4 (This marking is not required by the regulation, but it is recommended to show compliance with the IFF-rules)

(The marking can be made as a sticker, engraving etc. It can be divided in several stickers. For the IFF-marking see 1.3.2.4)

## Guidelines for the measurement of grille openings in a match situation.

- An IFF-marked grille (embossed IFF-marking on a metal plate on the left side of the grille) should be considered as an approved grille and need not necessarily be measured; unless there are indications that the grille has been changed/mended in some way.
- An unmarked grille must always be measured to prove that the grille openings are within the set requirements.
- During the certification approval test a measuring gauge with a dimension of 70 x 8mm is used. The measuring gauge should not be able to be inserted in any of the facemask's grille openings so...

Measurement of grille openings in a match situation, by means of e.g. measuring tape, should be viewed as a rough method to measure the openings in the grille.

- The grille openings must in most cases never be measured to more than 70mm in any direction. In some grilles all grille openings are not rectangular, but have other shapes (e.g., sharply tapered or curved forms).

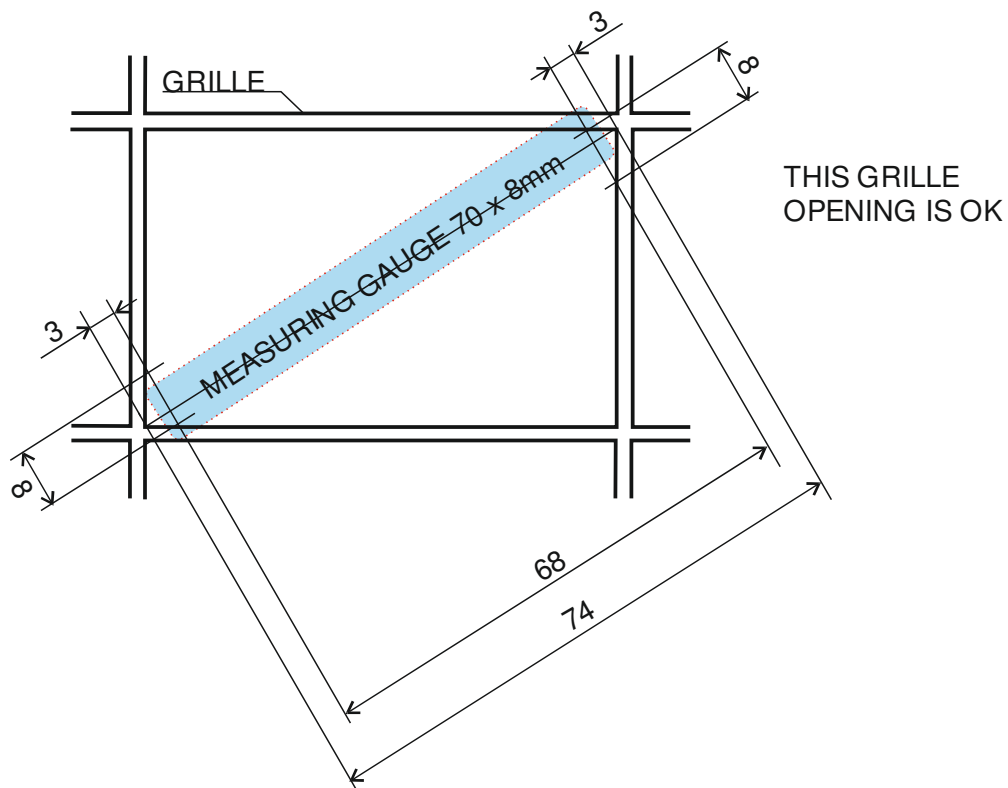
If you measure these types of grille openings to a value exceeding 70mm; then it is also important to measure the opening perpendicular (the height) to the other direction.

- If the height is measured to a value below 8 mm e.g. due to nearby parallel grille threads, the length of the part that has a height less than 8mm is to be measured.

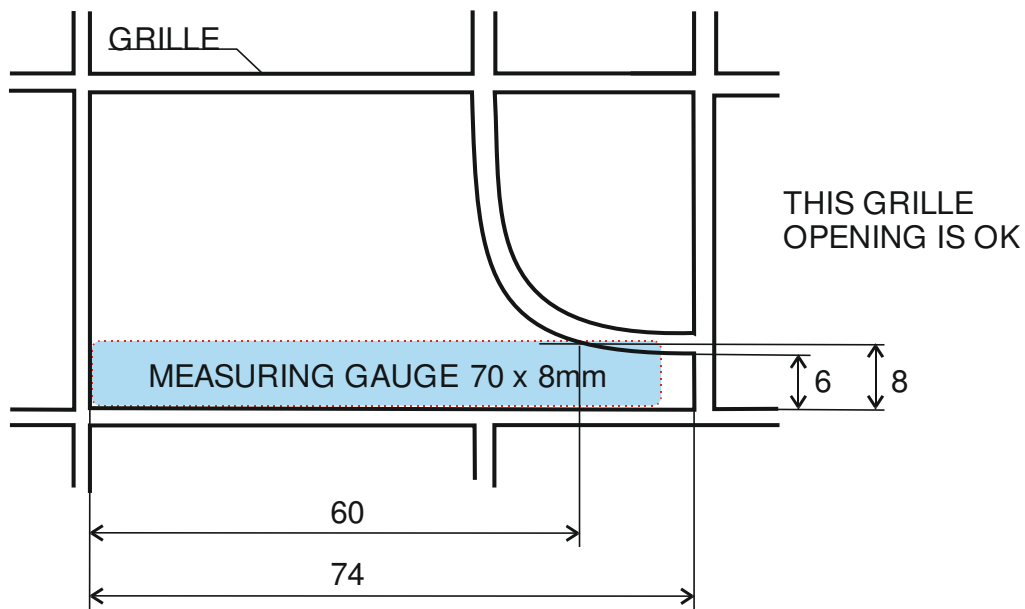
The newly measured part length shall be deducted from the previously measured grille opening value that was exceeding 70mm.

- If the result value still is found to exceed 70mm; the grille is not fulfilling the requirement. Otherwise if the result value is below 70mm: the grille is fulfilling the requirement.

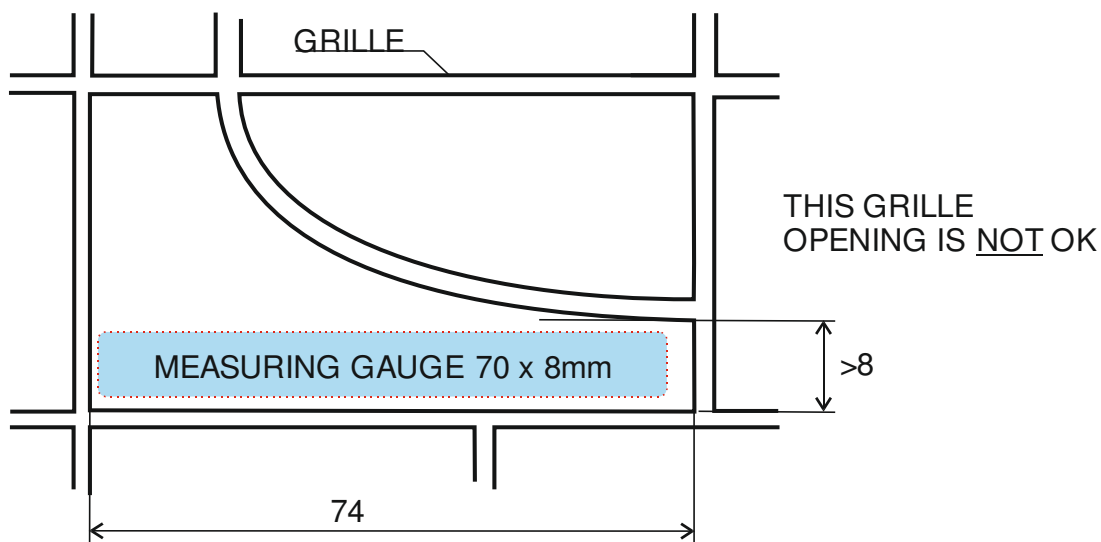
See examples below.



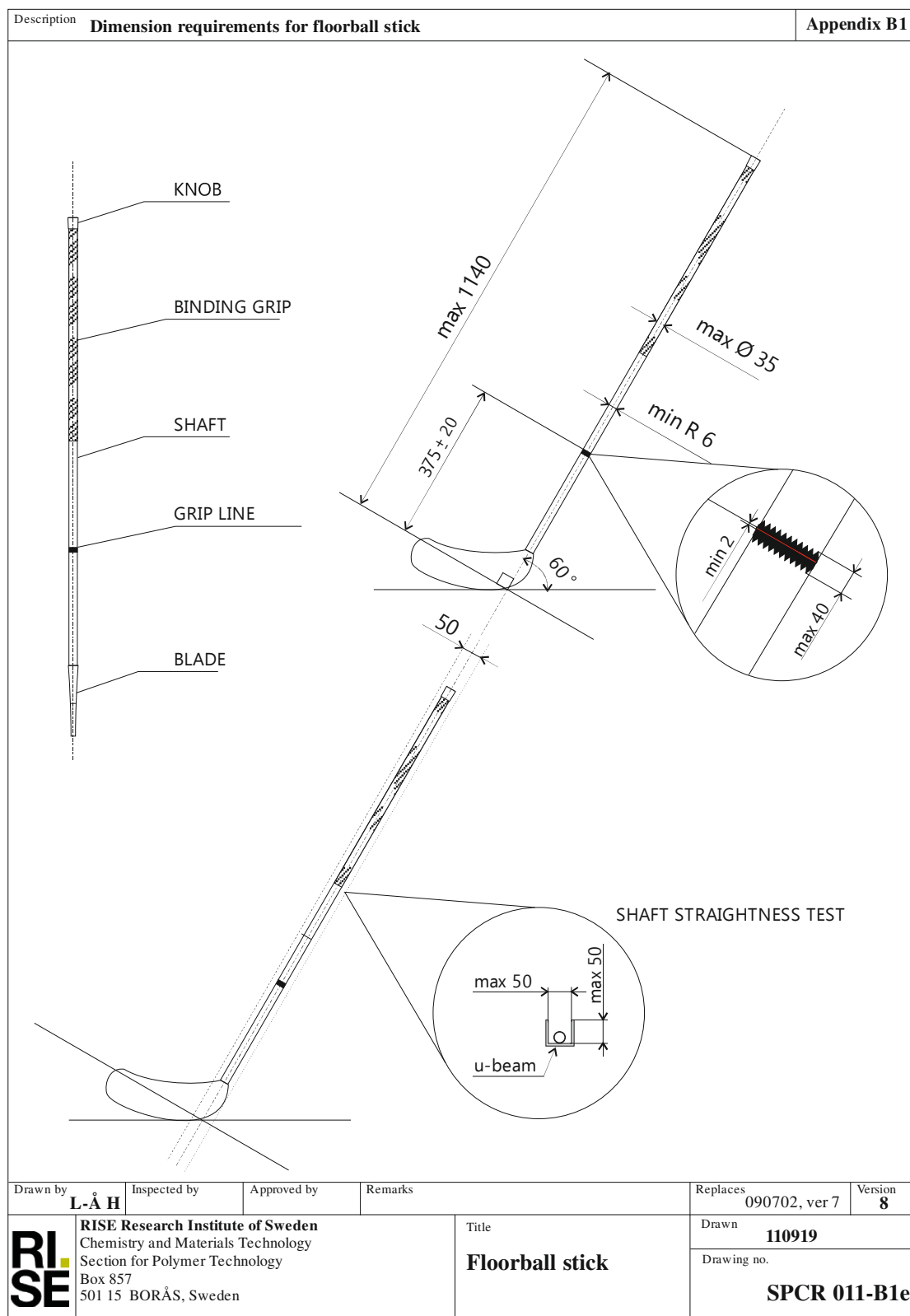
IN THIS EXAMPLE ONE OF THE GRILLE OPENINGS IS MEASURED TO 74mm (DIAGONAL).  
BUT THE PERPENDICULAR VALUE (THE HEIGHT) IS LESS THAN 8mm FOR 2 x 3mm OF THE DISTANCE.  
A MEASURING GAUGE WITH A DIMENSION OF 70 X 8mm CAN NOT BE INSERTED.

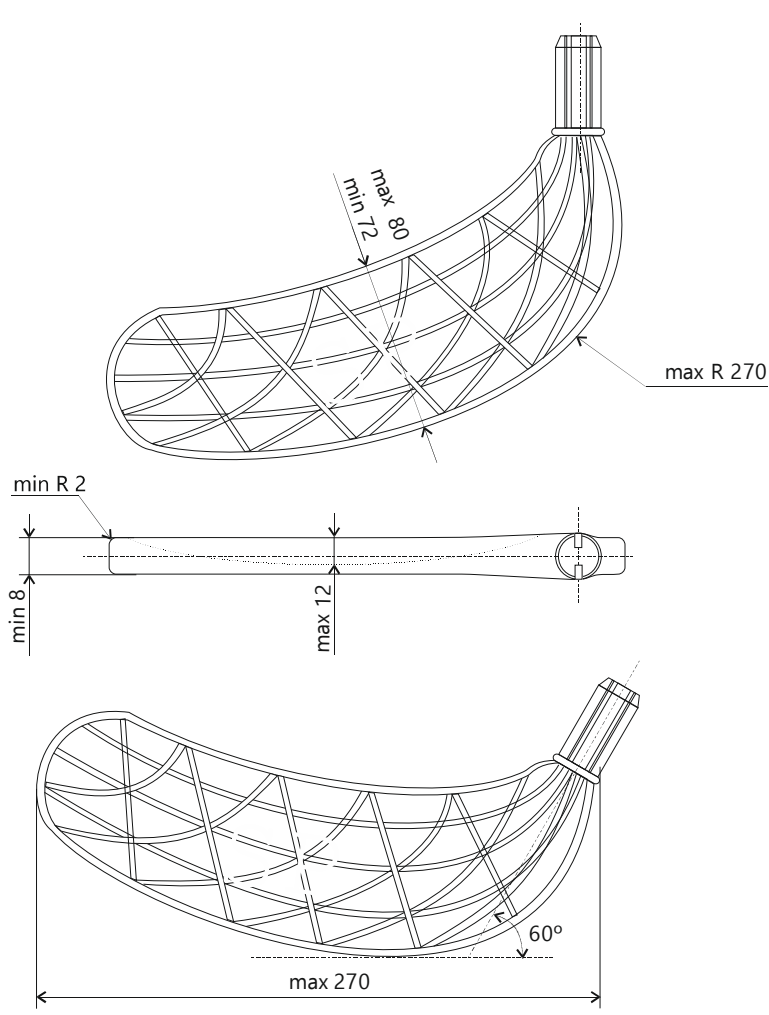
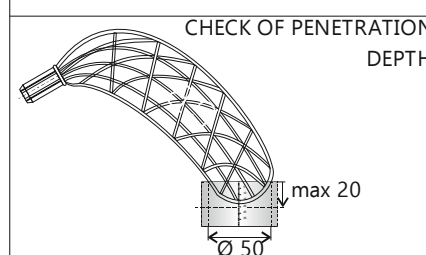
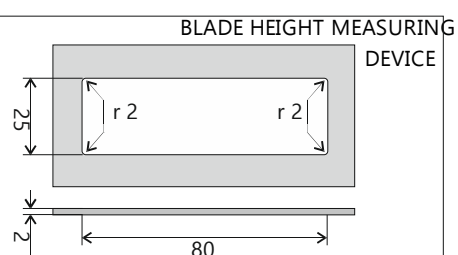



IN THIS EXAMPLE ONE OF THE GRILLE OPENINGS IS MEASURED TO 74mm.  
BUT THE PERPENDICULAR VALUE (THE HEIGHT) IS LESS THAN 8mm FOR 14mm OF THE DISTANCE.  
A MEASURING GAUGE WITH A DIMENSION OF 70 X 8mm CAN NOT BE INSERTED.

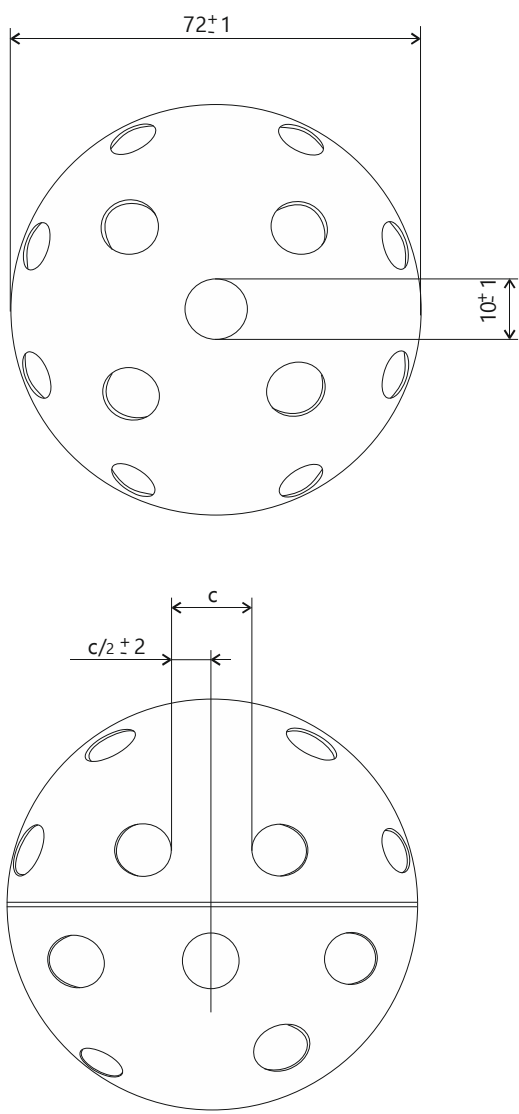



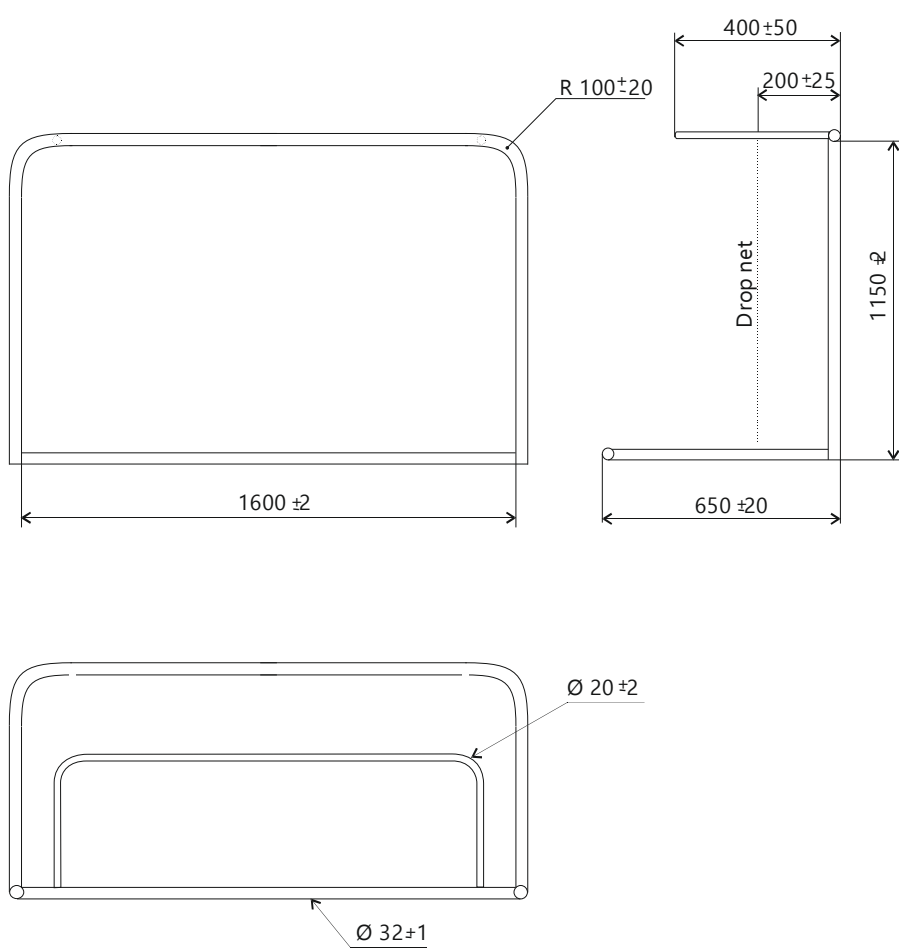
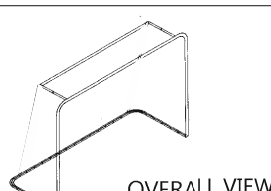
IN THIS EXAMPLE ONE OF THE GRILLE OPENINGS IS MEASURED TO 74mm.  
THE PERPENDICULAR VALUE (THE HEIGHT) IS MEASURED TO A VALUE EXCEEDING 8mm.  
A MEASURING GAUGE WITH A DIMENSION OF 70 X 8mm CAN EASILY BE INSERTED.

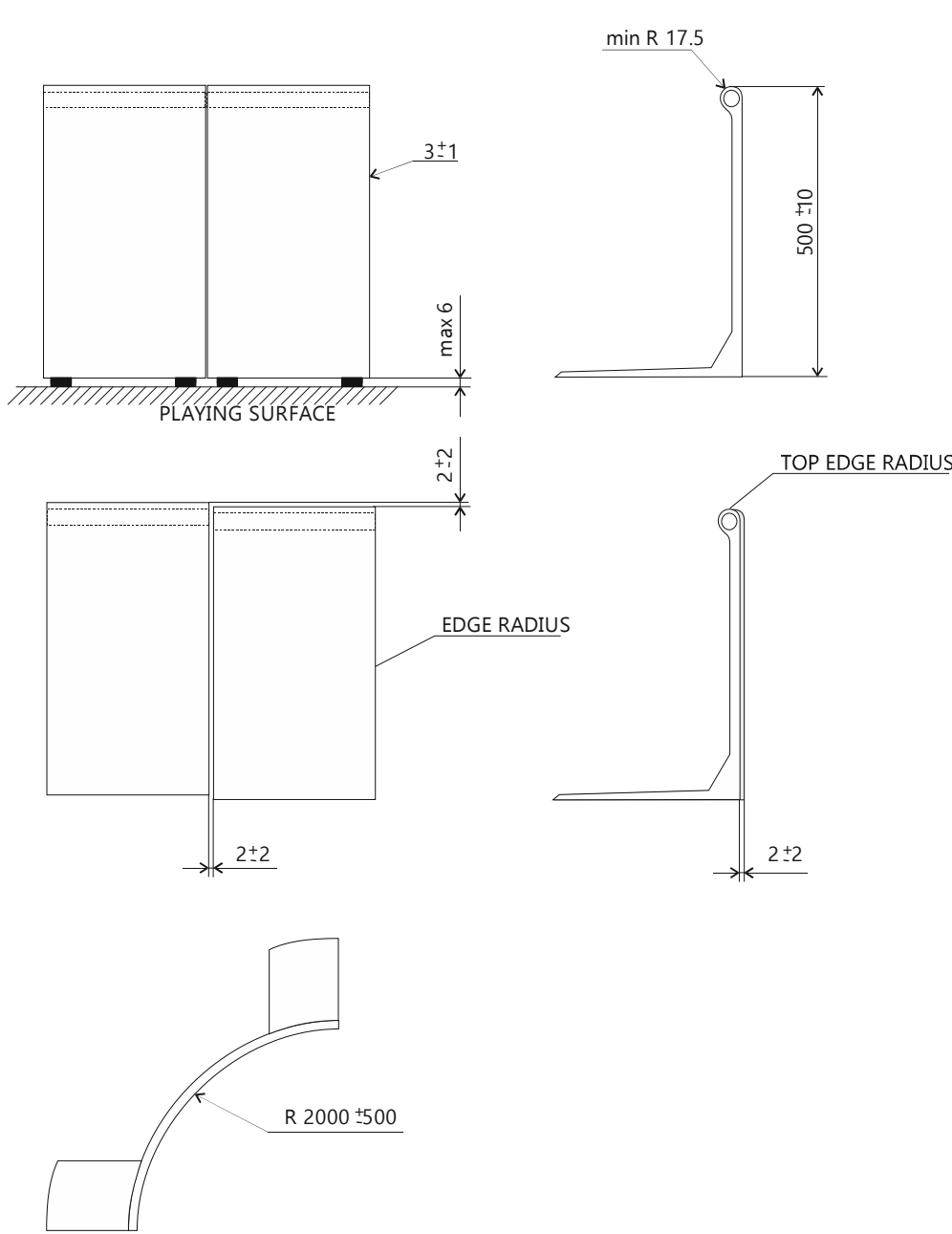



Description		Dimension requirements for floorball stick blade		Appendix B2	
<div></div>					
<div></div>		<div></div>			
Drawn by L-Å H		Inspected by	Approved by	Remarks	Replaces 050103, ver 5
 <b>RISE</b> Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden		Title <b>Stick blade</b>			Version <b>6</b>
					Drawn <b>090903</b>
					Drawing no. <b>SPCR 011-B2e</b>

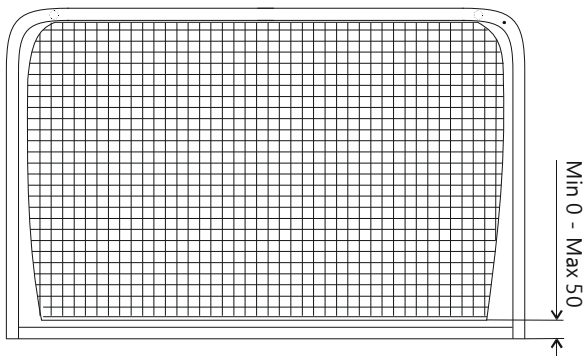
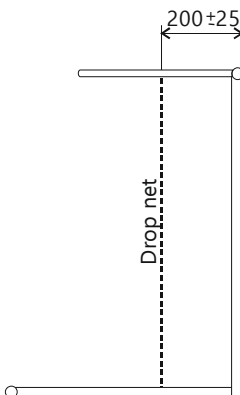
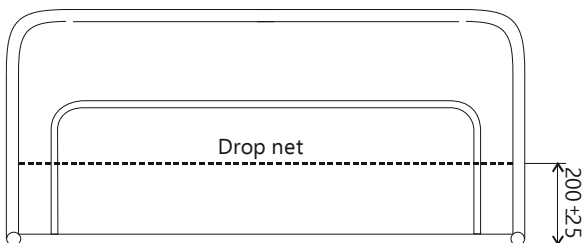
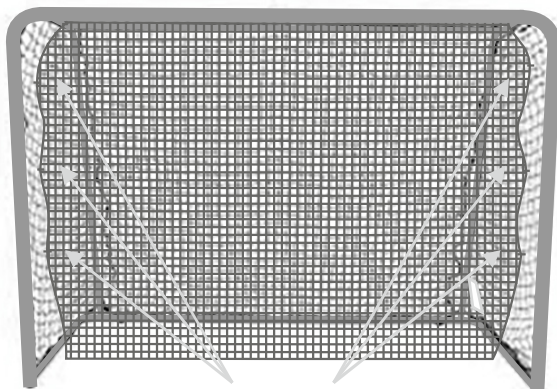



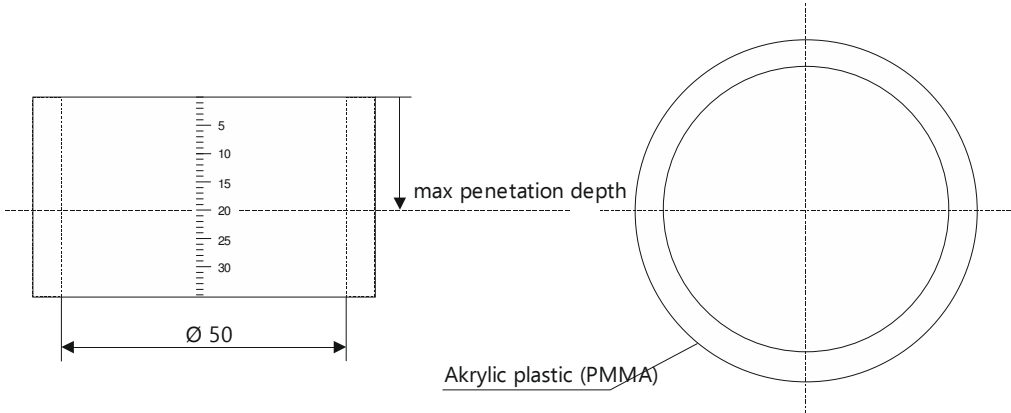
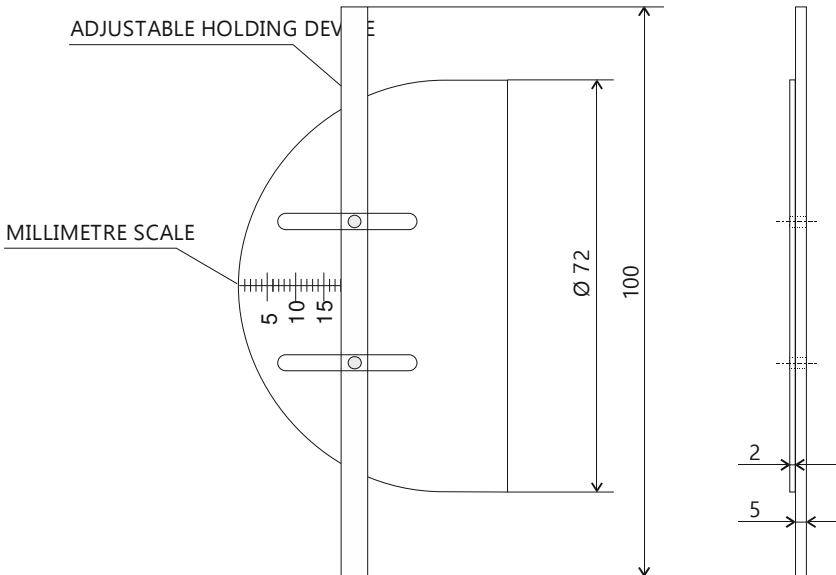
Description			Dimension requirements for floorball ball			Appendix B3			
<div></div>									
Drawn by		Inspected by		Approved by		Remarks		Replaces	Version
L-Å H								930924, ver 2	3
<div> <b>RISE</b> Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden</div>				Title <b>Floorball ball</b>		Drawn <b>951115</b>			
						Drawing no.			
						<b>SPCR 011-B3e</b>			

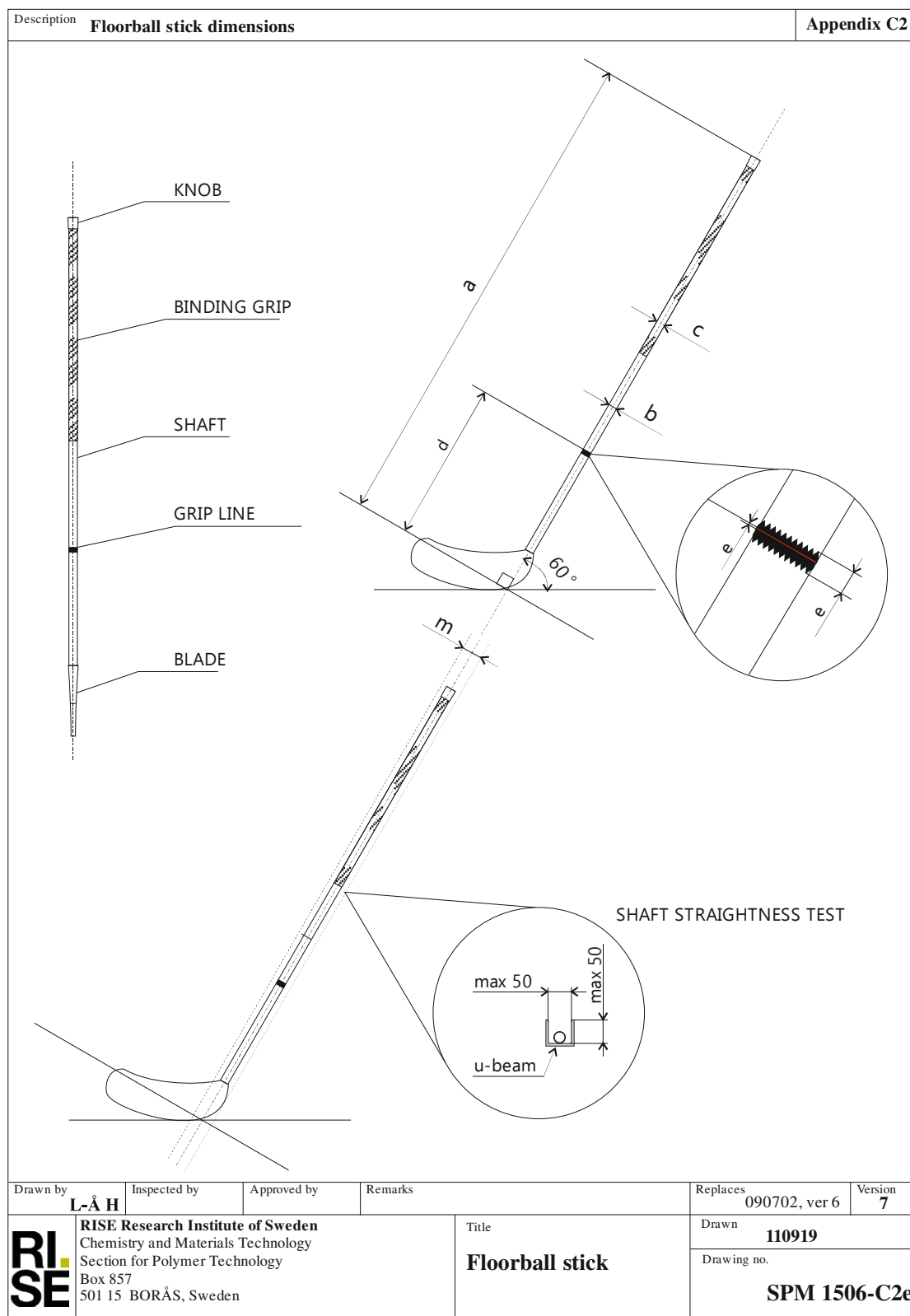
Description		Dimension requirements for floorball goal		Appendix B4	
<div></div>					
<div></div>					
Drawn by L-Å H		Inspected by		Approved by	
Remarks		Replaces 060315, ver 6		Version 7	
RISE Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden		Title Floorball goal		Drawing no. SPCR 011-B4e	

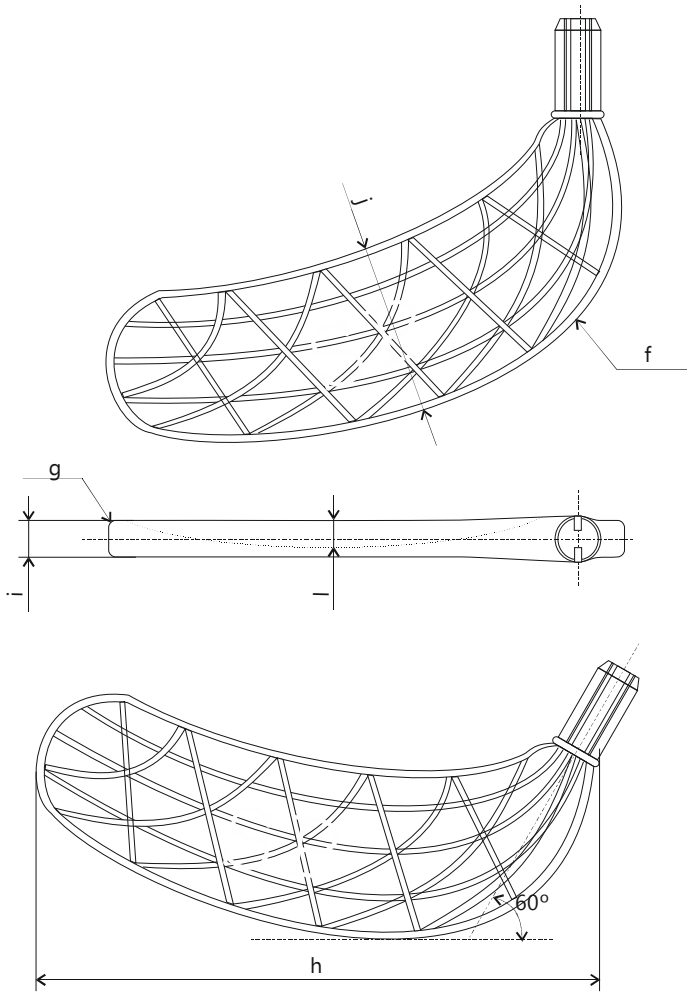
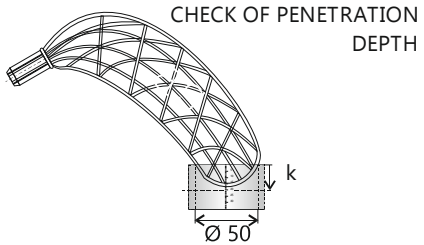

Description		Dimension requirements for floorball rink		Appendix B5					
<div><p>min R 17.5</p><p>3±1</p><p>max 6</p><p>PLAYING SURFACE</p><p>500 ±10</p><p>2±2</p><p>EDGE RADIUS</p><p>TOP EDGE RADIUS</p><p>2±2</p><p>R 2000 ±500</p></div>									
Drawn by		Inspected by		Approved by					
L-Å H				Remarks					
<div><b>RISE</b> RISE Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden</div>				Title		Replaces		Version	
				Floorball rink		951115, ver 3		4	
						Drawn		040524	
				Drawing no.		SPCR 011-B5e			



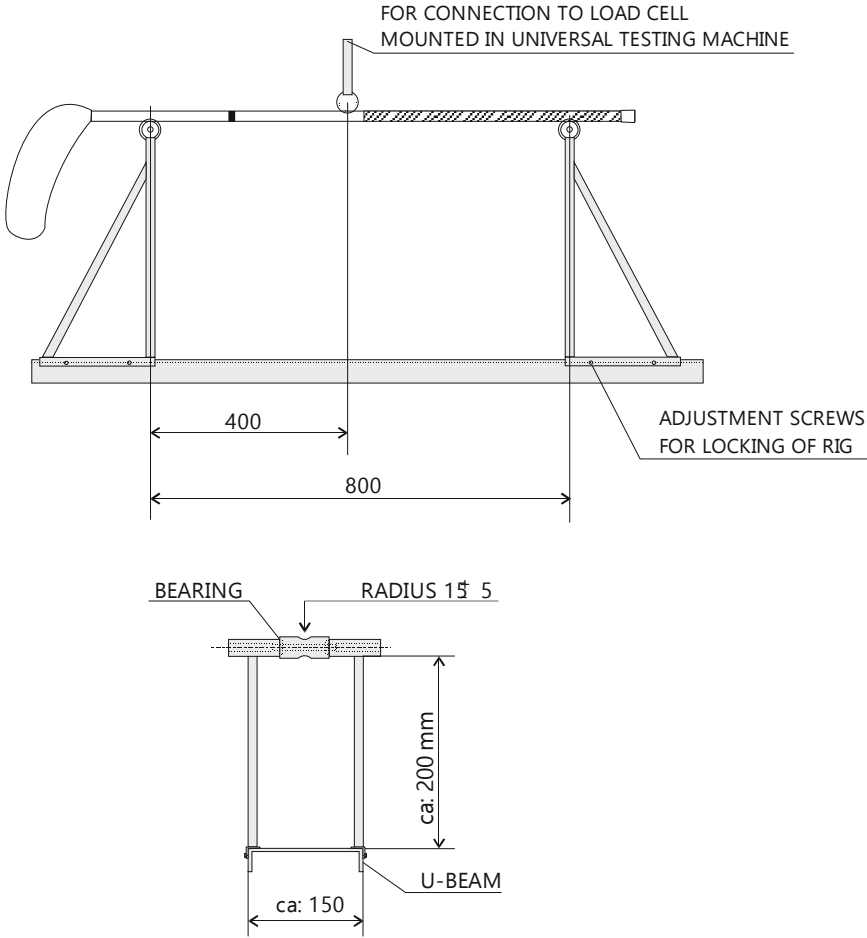
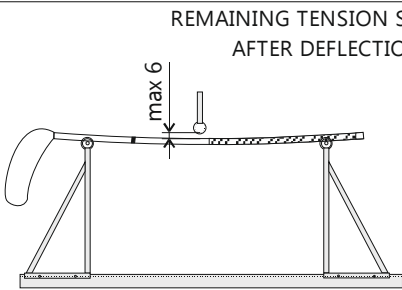

Description	Drop net length and mounting / positioning requirements for floorball goal				Appendix B7
<div></div> <div></div> <div></div> <div><p>ATTACHEMENT POINTS ON THE OUTER NET BY USE OF e.g. CABLE TIES</p></div>					
Drawn by <b>L-Å H</b>	Inspected by	Approved by	Remarks	Replaces	Version <b>1</b>
 <b>RISE</b> Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden	<b>Title</b>  <b>Floorball goal - Drop net</b>			Drawn <b>190521</b>	Drawing no.  <b>SPCR 011-B7e</b>

Description	Equipment for measuring blade penetration depth and concavity depth			Appendix C1
<div>MEASURING DEVICE FOR BLADE PENETRATION DEPTH</div> <div></div>				
<div>MEASURING DEVICE FOR BLADE CONCAVITY DEPTH</div> <div></div>				
Drawn by L-Å H	Inspected by	Approved by	Remarks	Replaces 930924, ver 2 Version 3
RISE	RISE Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden		Title  Equip. for penetration and concavity depth	Drawn 951115
	Drawing no. SPM 1506-C1e			

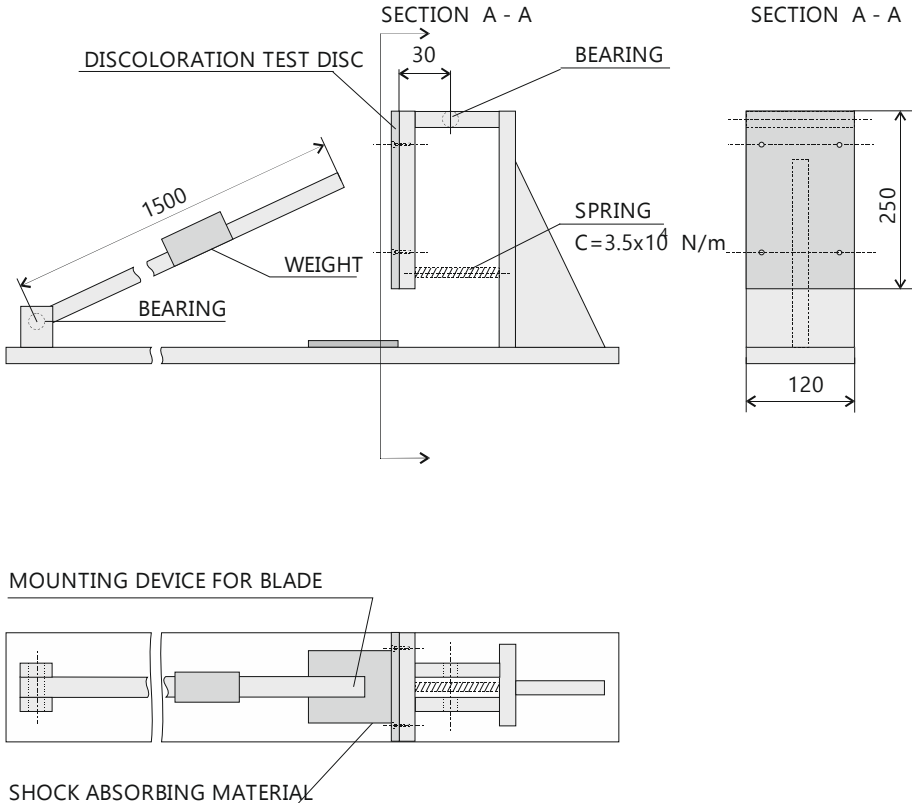



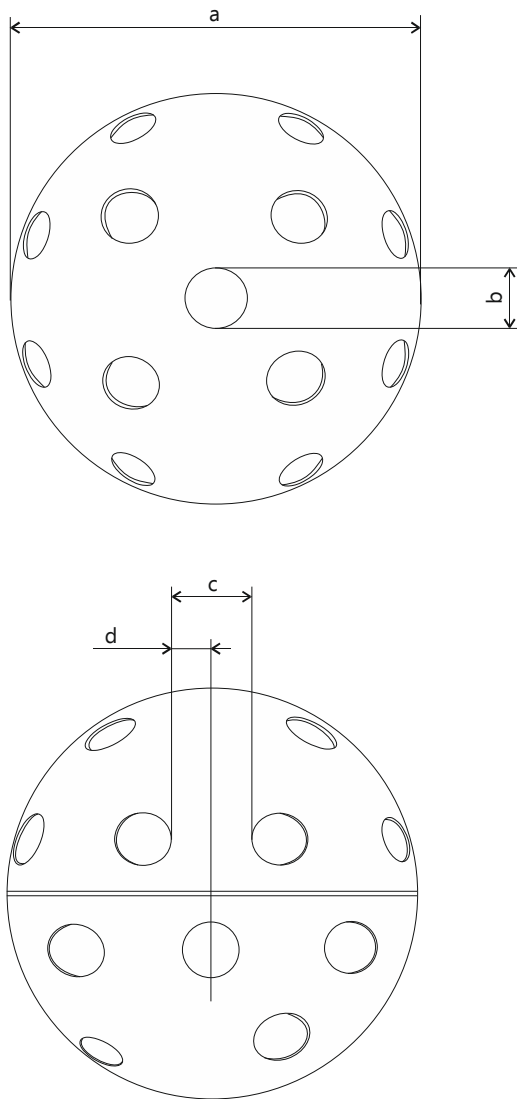

Description	Floorball stick blade dimensions			Appendix C3	
<div></div>					
<div></div>					
Drawn by <b>L-Å H</b>	Inspected by	Approved by	Remarks	Replaces 050103, ver 4	Version <b>5</b>
 <b>RISE</b> RISE Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden			Title <b>Floorball stick blade</b>		Drawn <b>090702</b>
					Drawing no. <b>SPM 1506-C3e</b>



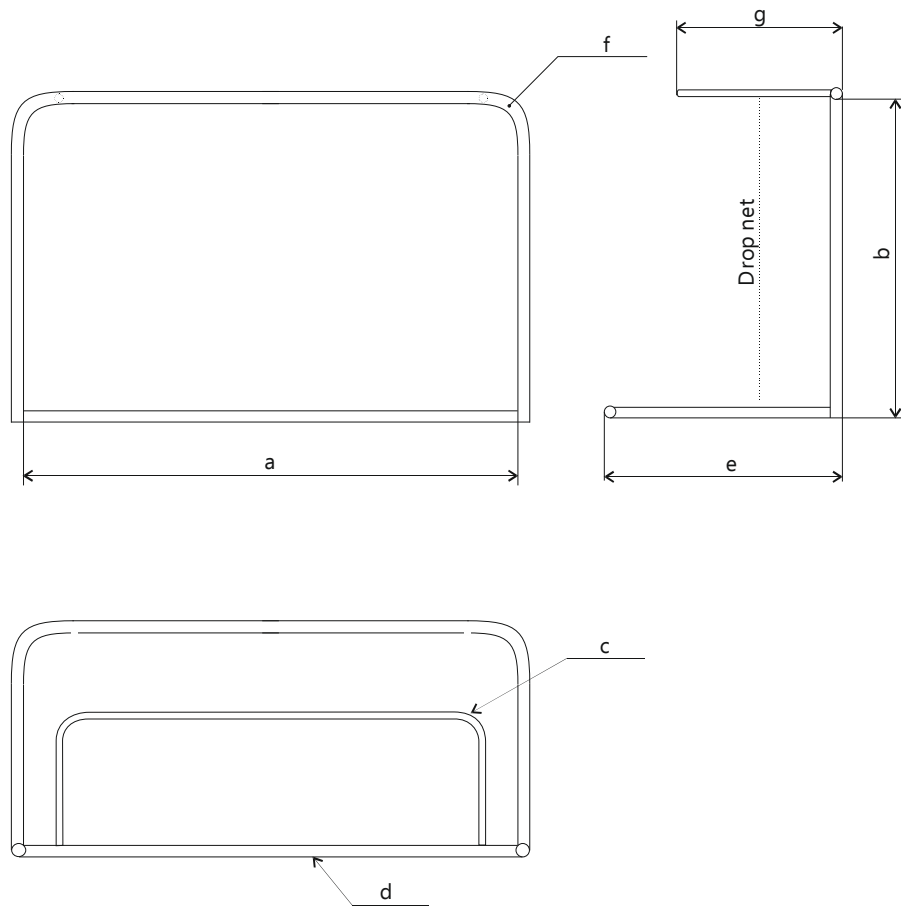
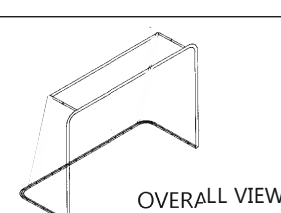

Description	<b>Equipment for deflection test</b>	<b>Appendix C4</b>
		
		
Drawn by <b>L-Å H</b>	Inspected by	Approved by
<div> <div>  <div> <b>RISE Research Institute of Sweden</b>  Chemistry and Materials Technology  Section for Polymer Technology  Box 857  501 15 BORÅS, Sweden </div> </div> <div> <div>Title</div> <div><b>Deflection</b></div> </div> </div>		
Remarks		Replaces 930924, ver 2 Version <b>3</b>
		<div> <div>Drawn <b>951115</b></div> <div> Drawing no.  <b>SPM 1506-C4e</b> </div> </div>

Description			Equipment for impact test		Appendix C5						
<div><div><p>PLEXIGLASS</p><p>WEIGHT 350± 10 g</p><p>R 7</p><p>STICK SHAFT</p><p>150</p><p>1000±5</p></div></div>											
Drawn by L-Å H		Inspected by		Approved by		Remarks		Replaces 930924, ver 2		Version 3	
<div><div></div><div><p>RISE Research Institute of Sweden</p><p>Chemistry and Materials Technology</p><p>Section for Polymer Technology</p><p>Box 857</p><p>501 15 BORÅS, Sweden</p></div></div>				Title Impact test				Drawn 951115			
								Drawing no. SPM 1506-C5e			

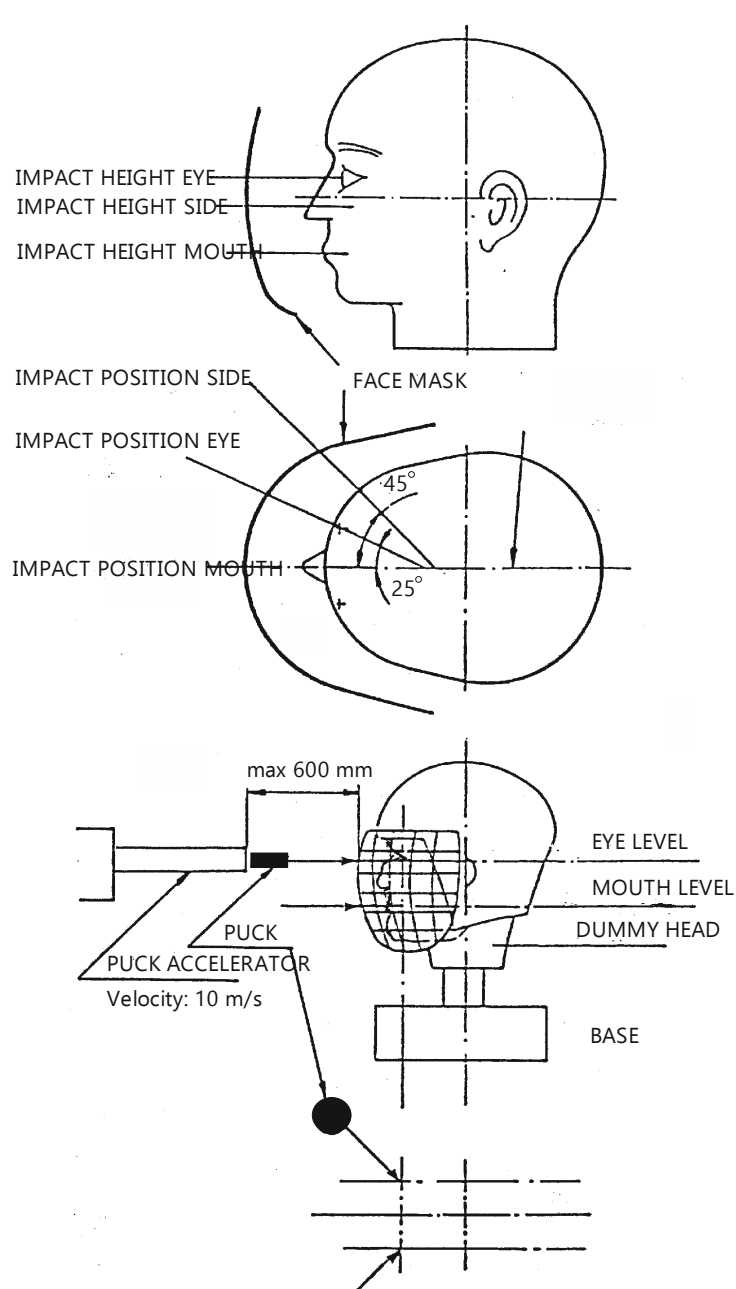
Description		Equipment for discoloration test			Appendix C6		
<div></div>							
Drawn by		Inspected by		Approved by		Remarks	
L-Å H							
<div> <b>RISE Research Institute of Sweden</b> Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden</div>				Title		Replaces	
				<b>Discoloration</b>		930924, ver 2	
						Version	
				3			
				Drawn			
				951115			
				Drawing no.			
				SPM 1506-C6e			

Description			Floorball ball dimensions		Appendix C7						
<div></div>											
Drawn by		Inspected by		Approved by		Remarks		Replaces		Version	
L-Å H								930924, ver 2		3	
<div> <b>RISE</b> RISE Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden</div>				Title				Drawn			
								951115			
				Floorball ball				Drawing no.			
								SPM 1506-C7e			

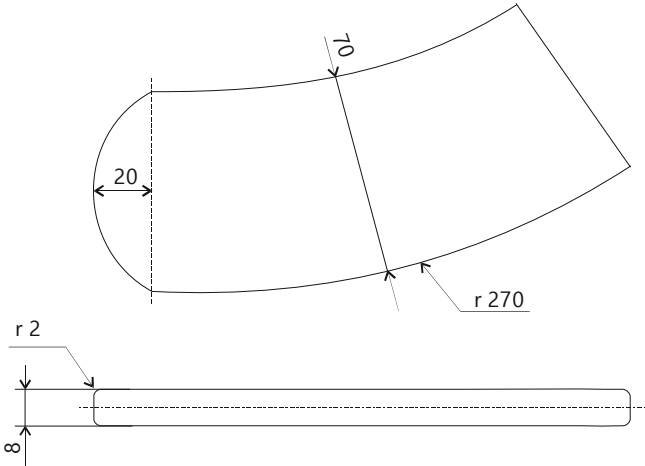


Description		Floorball goal dimensions		Appendix C9	
<div></div>					
<div><p>OVERALL VIEW</p></div>					
Drawn by <b>L-Å H</b>		Inspected by		Approved by	
Remarks		Replaces 040623, ver 5		Version <b>6</b>	
<div><b>RISE</b> RISE Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden</div>		Title <b>Floorball goal</b>		Drawn <b>060315</b>	
				Drawing no. <b>SPM 1506-C9e</b>	

Description	Floorball rink dimensions			Appendix C10	
<div><p>The drawing illustrates the dimensions of a floorball rink. The top view shows a rectangular rink with width <i>d</i>, height <i>b</i>, and thickness <i>f</i>. It is positioned on a "PLAYING SURFACE". The side view shows the rink's profile with height <i>a</i>, top edge radius <i>c</i>, and base width <i>g</i>. A detail view shows the "EDGE RADIUS" and "TOP EDGE RADIUS" with dimension <i>e</i>.</p></div>					
Drawn by	L-Å H	Inspected by	Approved by	Remarks	Replaces
					951115, ver 3
					Version
					4
<div><p><b>RISE</b> Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden</p></div>				Title	Drawn
					040524
					Drawing no.
					SPM 1506-C10e

Description	Equipment for impact test on face mask	Appendix C11
		
Drawn by	L-Å H	Inspected by
		Approved by
		Remarks
<b>RISE</b> RISE Research Institute of Sweden Chemistry and Materials Technology Section for Polymer Technology Box 857 501 15 BORÅS, Sweden		Replaces 930924, ver 2    Version <b>3</b> Drawn <b>951115</b> Drawing no. <b>SPM 1506-C11e</b>
Title <b>Face mask</b>		



Description			Equipment for net size test on face mask		Appendix C12	
<div></div>						
Drawn by		Inspected by		Approved by		Remarks
L-Å H						
<div><div><div>RISE</div><div>RISE Research Institute of Sweden</div><div>Chemistry and Materials Technology</div><div>Section for Polymer Technology</div><div>Box 857</div><div>501 15 BORÅS, Sweden</div></div></div>				Title		Replaces
				Stick Blade Measuring Device		080512
				Version		4
				Drawing no.		090702
				SPM 1506-C12e		