



SPECIFICATION SHEET
SAMBO mats manufacturing

Moscow - 2016

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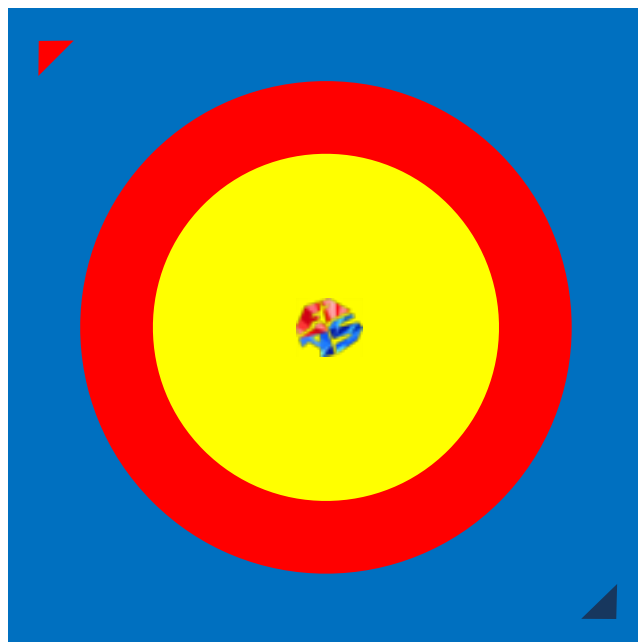
I. GENERAL PROVISIONS

Official documents approved by FIAS Executive Committee (Regulations and SAMBO Rules) contain key terms related to SAMBO mats.

This document defines the requirements for SAMBO mats used in the official FIAS competitions (World Championships (adults, juniors, youths, cadets, students, masters), World Cups, multi-sport events (World University games, European Games etc.).

II. REQUIREMENTS – SAMBO MATS MANUFACTURING

II.1. Appearance



II.2. Size and layout of the mats

- a) SAMBO mat should be the size from 11x11 up to 14x14 meters;
- b) the working area of the mat where the athletes fight is a circle with a diameter of 6 to 9 meters;
- c) the line width of the edge of the mat is 1 meter;
- d) the center of the mat is marked with the logo of FIAS 1 meter in diameter;
- e) two opposite corners of the mat are marked with red and blue triangles.

* Settings mat may be modified in individual cases by decision of the Executive Board for a certain kind of competitions.

Basic dimensions of the SAMBO mat presented in **Annex 1**.

II.3. Structural features

SAMBO mat consists of two parts: the mat and the carpet.

2.3.1 The mat is a elastic base of the SAMBO mat, with the purpose of absorbing the impact force when falling, followed by shape retention of the total surface area of the carpet. The main requirements:

- a) size of the mat is 200 x 100 x 5-6 cm.;
- b) the mats are made of synthetic and polymeric materials (materials selection, technical features of manufacture, the design characteristics is determined by the manufacturer);
- c) in the production process of the mats should be used harmless substances.

2.3.2 The carpet is a synthetic blanket square shape with special markings, which is placed on top of mats for the purpose of coupling between them. The main requirements:

- a) size of the carpet is from 11x11 up to 14x14 meters;
- b) the carpet is made of synthetic and polymeric materials (materials selection, technical features of manufacture, the design characteristics is determined by the manufacturer);
- c) in the production process of the carpet should be used harmless substances;
- d) the surface of the carpet should be smooth (but not slippery) and uniform without any unevenness and solid seams;
- e) any application to the carpet must be resistant to abrasion, and deformation, and does not have to be painted;
- f) the material of the carpet needs to be water-repellent.

2.3.3 Each mat (12x12m) consists of one carpet and mats (72 pieces). Installation of SAMBO mat is performed by mounting the carpet to the mats with the help of hook and loop fasteners (VELCRO). This method is best for ensuring constant tension in the carpet, securely holding the mats in a single array.

Primary method of fastening carpet to the mats is presented in **Appendix 2**.

2.4 Technical characteristics

2.4.1 Mat

- a) material – polyethylene (PPE);
- b) density – 140-160 kg/m³;

- c) impact strength - 160-180 J/m;
- d) geometry – the rectangle of size 200 x 100 cm;
- e) thickness – 5-6 cm.

2.4.2 Carpet

- a) material – polyvinyl chloride (PVC);
- b) density – 650 kg/m³;
- c) specific weight – 700-800 g/m²
- d) strength – 300-370 N;
- e) geometry – the square size from 11x11 up to 14x14 meters;
- f) thickness – 0,53± 0,02 mm;
- g) color permanence – high;
- h) wear resistance – high;
- i) flammability – no more than 1,66 mm/s;
- j) temperature range – -60 to+70° C;
- k) texture of a cloth uniform, smooth, matte.

Primary colors of the marking of carpet is presented in **Annex 3**.

III. REQUIREMENTS – POSITION OF LOGOS ON SAMBO MATS

The manufacturer must affix the logo of FIAS and custom logo SAMBO mats strictly within the framework of the agreement (contract). The choice of the method of applying the logo and its colours shall be determined by agreement of the parties (manufacturer – FIAS).

3.1 Requirements for placement of FIAS logo

Main requirements for placement of FIAS logo on SAMBO mat are as follows:

- a) logo shall be placed strictly in the center of the working area of the mat;
- b) size of the logo should be 1 metre;
- c) method of applying the logo must meet the requirements:
 - i. security (environmentally friendly, no rough seams, sharp edges);
 - ii. aesthetics (durability, plasticity, the absence of contamination from contact with the dye logo).

The principle of applying the FIAS logo on the SAMBO mat is shown in **Annex 4**.

3.2 Requirements for manufacturer's logos

Main requirements for placement of manufacturer's logo on SAMBO mat are as follows:

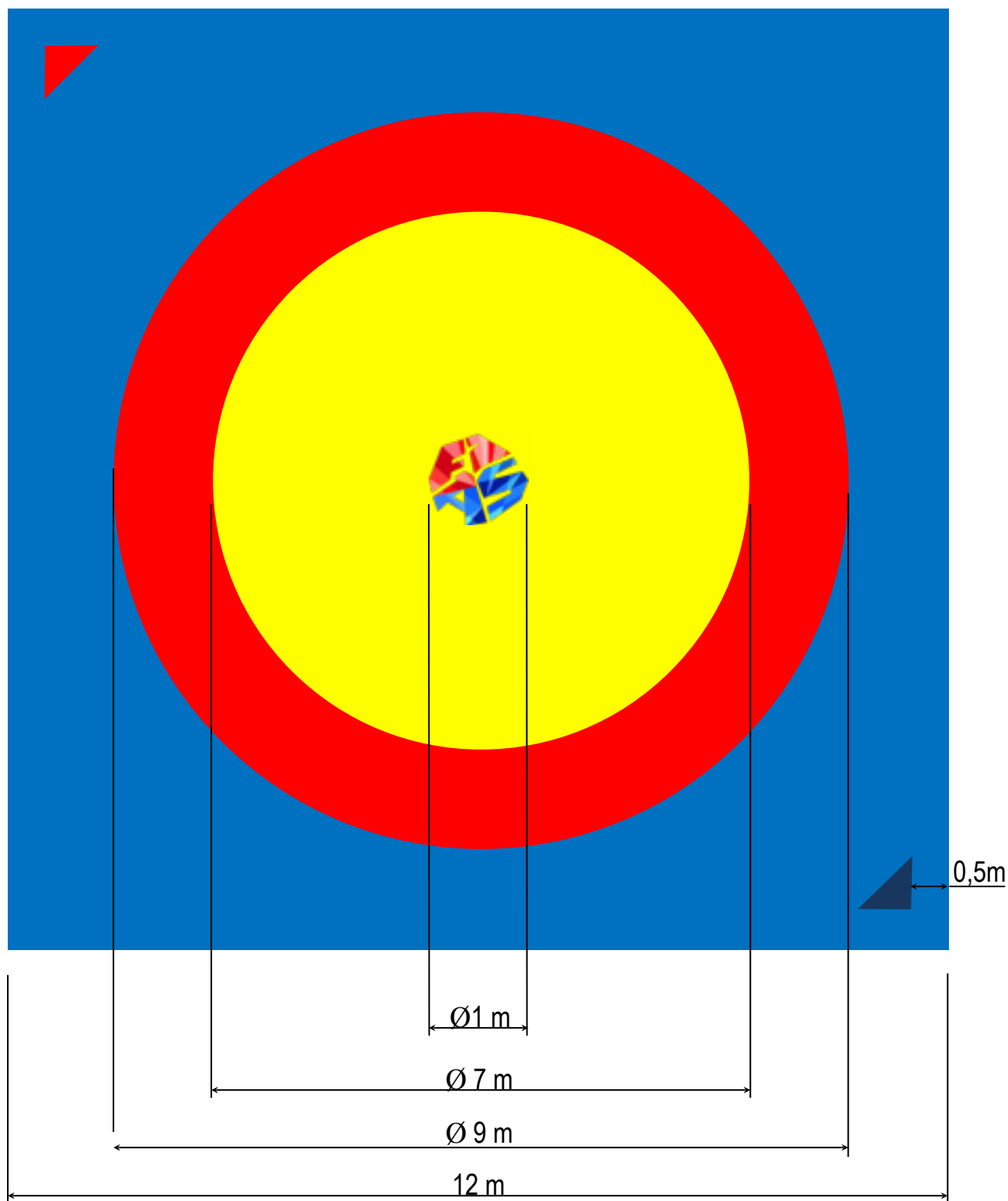
- a) the manufacturer's logo must be located strictly outside the working area of the mat;
- b) place of application and the size of the logo is defined in a separate agreement;
- c) method of applying the logo must meet the requirements:
 - i. security (environmentally friendly, no rough seams, sharp edges);
 - ii. aesthetics (durability, plasticity, the absence of contamination from contact with the dye logo).

The principle of applying the logos of the manufacturer on the SAMBO mat is shown in **Annex 4**.

3.3 General requirements

- a) durability: high;
- b) wear resistance: high;
- c) material: non-toxic, soft, one color;
- d) no sharp, rough elements which might cause any sort of damage.

Basic dimensions of the SAMBO mat



Primary method of fastening carpet to the mats



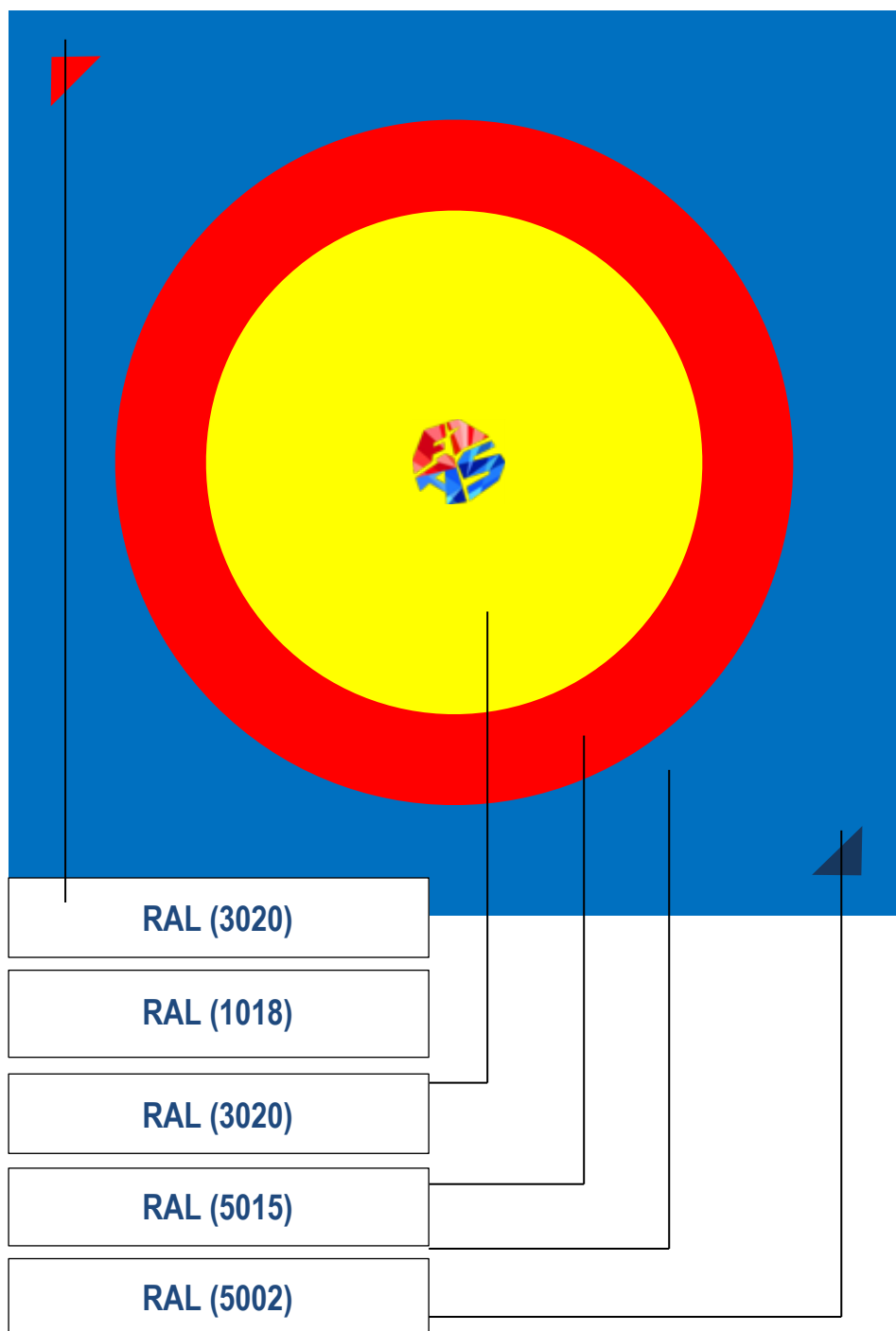
Floor surface

Mat

hook and loop
fasteners
(VELCRO)

Carpet

Primary colors of the marking of carpet



The principle of applying the FIAS logo and manufacturer's logos on the SAMBO mat

