FÉDÉRATION INTERNATIONALE DE GYMNASTIQUE

FIG
Apparatus Norms
SPIETH Gymnastics – supplier of the major events 2019:

World Championships AG
Stuttgart, 04.10. - 13.10.2019

World Championships RG
Baku, 16.09. - 22.09.2019

Junior World Championships RG
Moscow, 19.07. - 21.07.2019

World Gymnaestrada
Dornbirn, 07.07. - 13.07.2019

European Games
Minsk, 21.06. - 30.06.2019

European Championships RG
Baku, 31.05. - 02.06.2019

European Championships AER
Baku, 23.05. - 25.05.2019

European Championships AG
Szczecin, 10.04. - 14.04.2019

Special Olympics World Games
Abu Dhabi, 14.03. - 21.03.2019
Apparatus Norms
“I put all my emotions into competing”
Giorgia Villa

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Editorial

In its commitment to serve its partners and performers ever better at the international competition level, the International Federation of Gymnastics (FIG) is exceptionally pleased to introduce the new edition of the *Apparatus Norms* for gymnastics. This publication is based on the revision of the 2018 edition and has been in effect since 01.09.2019.

This document is the result of a team effort led by the members of the FIG Apparatus Commission in close cooperation with the concerned Technical Committees and the Anti-doping/Medical/Scientific Commissions, Mr. Ludwig Schweizer and Mr. Daniel Fesser, Director of the FIG Apparatus Testing Institute in Freiburg – GymLab (Germany) have managed this process.

The contents of this FIG Apparatus Manual offer a didactical approach, which allows the readers to learn about the particular functions of each apparatus and about the intricate process that surrounds certification and approval. This publication also serves as a source of official information for all National Federations and lays the foundation of the collaboration between the FIG and the apparatus manufacturers.

The concept of these regulations' layout makes it possible to update the specific data pertaining to each apparatus used in the various gymnastic disciplines. It allows the technicians, the organizers, and above all the apparatus manufacturers to be kept abreast immediately on the latest developments in this important area. The drafting of these norms has taken into consideration our Technical Regulations, Codes of Points and Media Regulations.

With this publication, the FIG is renewing its commitment to the absolute necessity of providing standards for the apparatus used in official events and to guaranteeing that consistent testing and certification procedures are provided by fully neutral institutes delivering certificates in due form. In this respect, the FIG is pleased to further contribute to the improvement of our gymnasts’ safety and to remain vigilant about fair play in competition.

We wish to thank everyone who has contributed to the publication of this document. The FIG wishes to all of them much success and a prosperous future at the service of the gymnasts and their managers.

With our compliments,

INTERNATIONAL FEDERATION OF GYMNASTICS

Morinari Watanabe  
President

Nicolas Buompane  
Secretary General

Ali Al-Hitmi  
Apparatus Commission President
Bloom with your rhythm.

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Division of chapters

I   General part
II  Apparatus Norms
III Certificates and diplomas
Appendix
Impressum
IV  Testing procedures
Explanations concerning the structure / systematic of the apparatus Norms FIG

Line 1  Number of the chapter
Line 2  Discipline and number of apparatus
Line 3  Date of validity
Line 4  Page number within the chapter
I General Part
Casting

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Artistic & Acrobatic Gymnastics
Trampoline
Tumbling

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CIRQUE DU SOLEIL
1. Introduction / Layout

2. Purpose and Principles

3. Validity of the Apparatus Norms

4. Guarantee for quality
The FIG is proud to present its Official Partners, who not only support the FIG financially and in kind, but understand Gymnastics and the importance of the FIG’s efforts to promote the development of all its disciplines.

Our Official Partners help to make our World Championships and the World Gymnastics a great success and constantly support our member Federations.

We thank them for their dedication and ask the World of Gymnastics to return the favour by supporting the companies that advance the spirit of Gymnastics.

Official Partners of the FIG

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- VTB
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1. Introduction / Layout

The present booklet has four parts.

PART I. is the general part and contains the aim of these Rules, the introduction, the layout and general principles.
Part I is aimed at all users.

PART II. contains the actual Apparatus Norms with drawings, measurements, description of functional properties and testing norms.
Part II is also aimed at all users.

PART III. contains the procedures for how to obtain FIG Certificates and Diplomas.
Part III is mainly oriented to the apparatus manufacturers.

PART IV. contains the detailed description of the testing procedures and is directed to the apparatus manufacturers and the FIG recognised Testing Institutes.

2. Purpose and Principles

- The purpose of these Apparatus Norms is first, to have equivalent apparatus at all competitions. It is essential for the competitors to have the same, optimal conditions for the preparations for competitions and at competitions all over the World. This is necessary for practical reasons, for competition fairness and comparison and for safety.

- All apparatus used at official FIG events; the Olympic Games and the World Games must have a valid FIG Certificate. This Certificate will be issued by the FIG, provided the apparatus has been tested successfully.

- The controlled certification by the FIG and the testing procedures guarantee, that the Apparatus Norms are respected. With the Diplomas issued by the FIG, a partnership between the FIG and the apparatus manufacturers is created.

- The choice of material and construction must be left to the manufacturers, to allow the apparatus to adapt to progress, development and new construction techniques. Therefore, the FIG only prescribes measurements, functional properties, norms for testing and testing procedures.

- The FIG recognises neutral Testing Institutes, which have to follow the testing procedures decided by the FIG to test the functional properties, the norms and measurements of the apparatus.

- The testing procedures must be constantly developed with the purpose to have meaningful testing procedures for all apparatus and further develop existing procedures. It is important to develop testing procedures which guarantee, that the apparatus fulfil the norms also after intensive use.

- To enforce the Apparatus Norms and to guarantee the quality of apparatus after intensive use, the FIG may, before, during or after an event, control the apparatus and make re-tests at the Testing Institute.

- In case of contradictions between the Apparatus Norms and the Code of Points, the Apparatus Norms prevail.
3. Validity of the Apparatus Norms FIG Certificate compulsory for all Apparatus

These Apparatus Norms were decided by the FIG Executive Committee and are valid from 1st September 2019.

They replace all previous editions as well as all previous decisions and publications regarding apparatus norms from the Executive Committee, Technical Committees and the Apparatus Commission of the FIG.

They are compulsory for all FIG events, as well as at the Olympic Games, World Games, Commonwealth Games, Asian Games, Pan-American Games, University Games and other multi-sport Games with International participation. At all those events, no apparatus which does not have a valid FIG Certificate may be used.

The FIG strongly recommends that at all other national and international events, organised independently by its member federations or unions, only apparatus which have a valid FIG Certificate may be used.

At international events, apparatus without a valid FIG Certificate may only be used provided all participating member federations have agreed in writing and bear the full responsibility and liability for the use of such uncertified apparatus. The FIG waives all responsibility in the cases where apparatus without a valid FIG Certificate are used.

4. Guarantee for quality

To guarantee equal quality and fairness for the competitors and to guarantee their safety and health, testing procedures for the quality of apparatus are necessary. Those testing procedures are defined in the Apparatus Norms part II and IV.

These apparatus norms as well as the requested norms and functional properties must not only be fulfilled at the time of the test at the Testing Institute. The apparatus manufacturers must guarantee to produce their apparatus in such a quality that the apparatus also fulfill the requested norms, functional properties and safety aspects after intensive use e.g. after a World Championship.
II Apparatus Norms
1. Overview of the apparatus of the FIG disciplines
   1.1 MAG Men's artistic gymnastics
   1.2 WAG Women's artistic gymnastics
   1.3 RG Rhythmic gymnastics
   1.4 AER Aerobic gymnastics
   1.5 TRA Trampoline gymnastics
   1.6 AERO Acrobatic gymnastics

2. Apparatus for the FIG disciplines, Construction and material description, dimensions
   2.1 MAG Men's artistic gymnastics
       MAG 1 Floor
       MAG 2 Pommel horse
       MAG 3 Rings
       MAG 4 Vaulting table
       MAG 5 Parallel bars
       MAG 6 Horizontal bar
       MAG 11 Landing mat 20 cm
       MAG 12 Landing mat 10 cm (Pommel horse)
       MAG 13 Supplementary mat 10 cm
       MAG 14 Vaulting Board
       MAG 15 Vaulting Board safety collar (Round off vaults)
       MAG 16 Mat for hands (Vault)
       MAG 18 Tension Control Sensor for Rings, High Bars and Uneven Bars – TCS

   2.2 WAG Women's artistic gymnastics
       WAG 1 Vaulting table
       WAG 2 Uneven bars
       WAG 3 Balance beam
       WAG 4 Floor
       WAG 11 Landing mat 20cm
       WAG 13 Supplementary mat 10cm
       WAG 14 Vaulting Board
       WAG 15 Vaulting Board safety collar (Round off vaults)
       WAG 16 Mat for hands (Vault)
       WAG 17 Spotter Mat (Uneven Bars)
       WAG 18 Tension Control Sensor for Rings, High Bars and Uneven Bars – TCS
Content

2.3 RG  Rhythmic gymnastics
   RG 1  Performance Area
   RG 2  Rope
   RG 3  Hoop
   RG 4  Ball
   RG 5  Club
   RG 6  Ribbon
   RG 7  Ribbon cane
   RG 10 Measurement Table

2.4 TRA  Trampoline Gymnastics
   TRA 1  Trampoline
   TRA 2  Double Mini Trampoline
   TRA 3  Tumbling Track
   TRA 11 Landing mat 30cm for DMT, TUM;
         Safety mat 20cm for TRA, DMT
   TRA 12 Spotter mat for TRA, DMT
   TRA 13 Supplementary mat for TUM
   TRA 14 Vaulting board, Tumbling
   TRA 15 Time measurement device for TRA
   TRA 16 Horizontal Displacement measurement
device for TRA

2.5 ACRO Acrobatic Gymnastics
   ACRO 1 Floor
   ACRO 11 Landing mat

2.6 AER  Aerobic Gymnastics
   AER 1 Performance Area
   AER 2 Aerobic Step

3. Surfaces of apparatus, safety zones, total surfaces

4. Competition area

5. Apparatus Control Forms

6. Required Equipment for FIG – Competition MAG/WAG/RG/TRA
1. Overview of the apparatus of the FIG disciplines
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## APPARATUS

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<th>Apparatus</th>
<th>Pictogram</th>
<th>Description Construction Material</th>
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<td>IV MAG2</td>
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<td>MAG4</td>
<td>Vaulting table</td>
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<td>MAG5</td>
<td>Parallel bars</td>
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## SUPPLEMENTARY APPARATUS

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<td>MAG15</td>
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<td>Mat for hands (vault)</td>
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<td>MAG18</td>
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## 1.2. Women's Artistic Gymnastics WAG

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<td>IV WAG14</td>
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<td>Spotter mat (Uneven Bars) for training and warming up</td>
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### 1.3. Rhythmic Gymnastics RG

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#### APPARATUS

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<td>Rope</td>
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<td>RG6</td>
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<td>RG10</td>
<td>Measurement Table with Balance</td>
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* Test with measuring table according to the directives of the competition
### APPARATUS

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<tr>
<td>TRA1</td>
<td>Trampoline</td>
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<td>IV TRA1 yes</td>
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<td>Double Mini-Trampoline</td>
<td>II TRA2</td>
<td>yes yes</td>
</tr>
<tr>
<td>TRA3</td>
<td>Tumbling track</td>
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<td>IV TRA3 yes</td>
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### SUPPLEMENTARY APPARATUS

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<th>Test</th>
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<td>TRA 11</td>
<td>Landing mat 30cm for DMT, TUM; Safety mat for TRA, DMT (20 cm)</td>
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<td>IV TRA11 yes</td>
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<td>Spotter mat Trampoline Gymnastics DMT</td>
<td>II TRA12</td>
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<td>TRA 13</td>
<td>Supplementary mat 10cm for TUM</td>
<td>II TRA13</td>
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<td>TRA 14</td>
<td>Vaulting board Tumbling</td>
<td>II TRA14</td>
<td>IV TRA14 yes</td>
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<td>TRA 15</td>
<td>Time measurement device for Trampoline competitions (TMD)</td>
<td>II TRA15</td>
<td>IV TRA15 yes</td>
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<td>TRA 16</td>
<td>Horizontal Displacement measurement device for Trampoline competitions (HDM)</td>
<td>II TRA16</td>
<td>IV TRA16 yes</td>
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### 1.5. Acrobatic Gymnastics ACRO

#### APPARATUS

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#### SUPPLEMENTARY APPARATUS

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### Apparatus Norms

#### Description

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<th>Description</th>
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<th>Test</th>
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<tr>
<td>AER1</td>
<td>Floor</td>
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<td>II AER1</td>
<td>IV AER1</td>
<td>Yes</td>
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<tr>
<td>AER2</td>
<td>Aerobic Step</td>
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<td>II AER2</td>
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<td>Yes</td>
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2. Apparatus of the FIG disciplines – Construction and material description, dimensions

2.1. MAG Men’s artistic gymnastics
Apparatus Supplier for the 48th FIG Artistic Gymnastics World Championships Doha
Floor

Men's Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The Performance Area shall have a square format. The surface must be horizontal, even and without gaps. All plates of the under construction within the Performance Area shall have the same arrangement of elastic elements.
   1.2. All elements of the floor have to be connected firmly to prevent slipping.
   1.3. Border: Horizontal and even, at the same height as the Performance area
   1.4. Border’s variant: Width 50 cm, horizontal and even, at the same height as the Performance area, additional 50 cm inclination border, slope may not exceed 25 %.
   1.5. Safety zone: The safety zone shall be kept totally free as a surrounding zone around the performance area and the border. It shall be horizontal, even and without gaps.

2. Measurements
   2.1. Performance area  1200 cm x 1200 cm   Tolerance +/- 3 cm
   2.2. Diagonals of the performance area:  1697 cm +/- 5cm
   2.3. Border  100 cm, min.
   2.4. Border as a variant
      2.4.1. Horizontal Area, Width  50 cm, min.
      2.4.2. Slope max. 25 %, Width  50 cm, min.
      2.4.3. Height of outer border at the very end  3,5 cm, max.
   2.5. When there is a delimitation strip between the Performance area and the border:
      2.5.1. Delimitation strip width  5 cm,   Tolerance +/- 0,5 cm
   2.6. The delimitation strip is part of the Performance area.

3. Functional Properties of the performance area and border
   3.1. Equal elasticity on the surface as well as dampening.
   3.2. When in use it should not have any hindering motion energy
   3.3. Elasticity and dampening must be balanced in such a way that they guarantee the gymnast stability and freedom of movement. It must not restrict turns and slide movements.
   3.4. The surface cover of the Performance area must provide a balance between anti-skid and slippage. It must not cause skin burns.
   3.5. The floor must not produce disturbing sound during the execution of an exercise. It must assure a low noise level.

4. Of plain colour which choice is left to the manufacturer’s discretion. Dark colours are not allowed.
   For certain events the FIG may stipulate the colours. The delimitation shall have a clear contrast to the performance area.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Floor

surface de compétition, arena, Wettkampffläche
 cadre, edge, Umrandung
zone de sécurité, safety zone, Sicherheitszone

variantes, profile - variants, Schnitt - Varianten A, B, C

confer le texte / see text / siehe Text
Pommel Horse

Men’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of a prismoid body which is placed horizontally onto a base. On the upper surface of the body, two pommels are attached crossways.
   1.2. The Horse Body:
      1.2.1. Its sides - viewed from the two length and two front sides - slant inward.
      1.2.2. In cross section the upper surface shows an arch, in length section, it is horizontal, and even, and without gaps, except for the points of attachments.
      1.2.3. All corners and edges are rounded.
      1.2.4. The profile of the pommel horse’s body shall lie within a ± 1 cm pipe at the top and a ± 0.5 cm pipe at the side (red lines) around the specifications (in green) in the draw. The profile of the pommel horse’s body shall not include any kinks at the transitions from one radius to another (see draw). The top of the horse’s body shall be curved uniformly convex and shall not be flat.
   1.3. The Pommels:
      1.3.1. They are circular in profile, rise from their bases and then make a slight circular transition to the horizontal.
      1.3.2. The base which serves as a support conforms to arched upper surface of the horse body.
   1.4. The Base:
      1.4.1. Forms and conception do not have any prescriptions. It must assure stability of the body and the horizontal position of its length and cross axis; all technical safety rules must be observed.

2. Measurements
   2.1. Body:
      2.1.1. Length at top 160 cm * 1 cm \(^1\)
      2.1.2. Length at bottom 155 cm * 1 cm \(^2\)
      2.1.3. Width at top 35 cm * 1 cm \(^3\)
      2.1.4. Width at bottom 30 cm * 1 cm \(^2\)
      2.1.5. Height 28 cm * 1 cm
      2.1.6. Height from upper surface to the floor: 115 cm * 1 cm
   2.2. Pommels:
      2.3. Inner vertical diameter \(\geq 7\) cm
      2.4. Width at base 31 cm * 0.5 cm
      2.5. Height 12 cm * 0.5 cm
      2.6. Profile diameter (at the nearly horizontal part) 3.4 cm * 0.1 cm
      2.7. Span of the nearly horizontal part 15 cm * 0.2 cm
   2.9. Distance between Pommels:
      2.9.1. Minimum \(\leq 40\) cm
      2.9.2. Maximum \(\geq 45\) cm

* refers to the tolerance, +/-.
\(^1\) and \(^2\) are measurements linked to each other. In case of variation, they must move in the same direction, e.g. if width at top is 355 mm, the width at the bottom must be 305 ±10 mm.

Adjustments:
Pommels: The distance between the two pommels, inside measurement, must be continuously adjustable from 40 cm to 45 cm
Pommel Horse

3. Functional Properties
   3.1. Body:
      3.1.1. Its support area must be elastic and absorbing.
      3.1.2. The side surfaces, as well as corners and edges must have a dampening effect.
      3.1.3. Indentations caused by support may not hinder turns of the palms.
      3.1.4. The tear proof cover material, which tightly covers the body, may not slip or wrinkle.
      3.1.5. The upper surface must offer the ability to glide, but not be slippery.
      3.1.6. The cover material must be moisture absorbing and not cause skin burns.
      3.1.7. The vertical and cross axis of the horse must be horizontal. During use, the horse must
              remain static.
   3.2. Pommels:
      3.2.1. In principle, they are made of stiff materials.
      3.2.2. A slight flexibility, which must not affect support stability, is provided by the padded
              upper surface of the body.
      3.2.3. The anchoring to the body must assure immobility.
      3.2.4. The upper surface is slip proof, but must allow the palms to turn and slide in support.
      3.2.5. The pommels must be moisture absorbent and neutral to the use of magnesia.
   3.3. Base:
      3.3.1. It must allow exact levelling of the body, and assure its immobility.
      3.3.2. Floor anchoring for stabilization purposes is permitted, as well as anti-skid, dampening
              floor covering.
      3.3.3. With exception of parts on the floor (feet) the base may not protrude from the body of
              the horse. The height of the feet must allow an even, horizontal mat covering.
      3.3.4. No parts of the base may show sharp corners or edges, nor rough surfaces.
      3.3.5. Since the body is attached to the base, the stability of the apparatus depends on it as
              well. This is also one of the most important requirements for safety.

4. Colours
   4.1. Are left to the manufacturers’ discretion. It is strongly recommended that the colour of the
        pommel horse’s surface and the colour of the mats have sufficient contrast.
   4.2. For certain events the FIG may choose the colour.
   4.3. Based on practical tests and considered allowed are:
        4.3.1. For the body: The natural colour of leather, even when synthetic materials are used for
                the revetment
        4.3.2. For the pommel: Natural wood colour, or a light neutral shade, if synthetic materials are
                used
        4.3.3. For the base: Varnished colour

5. Mats
   5.1. The mats used for pommel horse must have a height of 10cm (MAG 11/12)

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please
see chapter IV
Pommel Horse

vue de côté
side view
Ansicht Längseite

vue de face
front view
Ansicht Stirnseite

vue de dessus
top view
Aufsicht

(*) These measures shall be fulfilled
5 cm below and above the Reference Point

<table>
<thead>
<tr>
<th>cotas obligatorias;</th>
<th>dimensionen mandatory;</th>
<th>Maße bindeg;</th>
</tr>
</thead>
<tbody>
<tr>
<td>constructions selon la gris;</td>
<td>dimensionen zur discention;</td>
<td>Konstruktion freigezeigte;</td>
</tr>
<tr>
<td>dessin en exemple</td>
<td>drawing typical example</td>
<td>Zeichnung als Beispiel</td>
</tr>
</tbody>
</table>
Rings

Men’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of two circular rings, attached to cables suspended on a frame.
   1.2. The rings have a uniform, circular profile.
   1.3. The cables have a pivoting mechanism at their suspension point on the frame. In the still position, the cables must hang in the vertical.
   1.4. The frames consist of two supports and a horizontal beam which contains the attachment devices of the cables.
   1.5. The frame is held upright by four tension cables, anchored to the floor. (Max. Ø 1 cm)
   1.6. To distribute the pressure, the supports have widened floor plates.

2. Measurements
   2.1. Rings:
       2.1.1. Inner diameter 18 cm * 0,1 cm
       2.1.2. Diameter of profile 2,8 cm * 0,1 cm
       2.1.3. Pendulum length below suspension device:
       2.1.4. Distance from point of attachment to lower inner side of the rings 300 cm * 1 cm
       2.1.5. Distance of lower inner side of the rings to floor 280 cm * 0,5 cm
   2.2. Straps:
       2.2.1. Length 70 cm * 1 cm
       2.2.2. Width 4 cm * 1 cm
       2.2.3. Distance between the 2 points of attachment on the frame 50 cm * 0,5 cm
   2.3. Frame:
       2.3.1. Height of attachment point at horizontal beam to the floor 580 cm * 1 cm
       2.3.2. Inner Distance of supports on the floor 260 cm min
       2.3.3. At height of 320 cm (point of indentation) 280 cm min
       2.3.4. Length of horizontal beam 120 cm min
       2.3.5. Measured 30cm under the attachment point
   2.4. Distance of tension cables:
       2.4.1. in vertical direction of apparatus 550 cm * 5 cm
       2.4.2. in cross section to apparatus 400 cm * 5 cm
   * Tolerance, +/-

3. Functional Properties
   3.1. The suspension device and the rings must be able to swing out freely in all directions. With the exception, of course, of the cable’s direction.
   3.2. Even submitted to tension, the rings must rotate easily. For this purpose, the pivoting device exists.
   3.3. Under load both rings shall have the same height above the ground.
   3.4. The rings must guarantee a sure grip and therefore must not be slippery.
   3.5. The rings must absorb moisture.
   3.6. The rings as such are made of a stiff material; in effect however, the apparatus must have a certain elasticity, to protect the gymnast’s joints. This is done partly through form and the method by which the frame is held, and can be helped by an elastic dampening device on the suspension cables.
   3.7. This device however may not produce springy or counter swings.
   3.8. Rings are either made of wood or synthetic material.
   3.9. Except for sanding, the rings’ upper surfaces receive no other treatment. The material must remain natural in order to absorb magnesia and moisture so as to assure a sure grip.
   3.10. The pivoting mechanism, the elastic dampening device and the stepless height regulator are connected to the hanging points.
   3.11. The cables are protected by a smooth synthetic cover material
   3.12. The straps, to which the rings are attached, are made of leather or of a sturdy equivalent material.
   3.13. Aside from the required resistance of materials, the stability of the apparatus must be assured.
Rings

3.14. During the exercise, the frame and the suspension device must not move or cause hindering sways or vibrations.
3.15. The required elasticity of the suspension device must not produce springy or counter swings.
3.16. Sharp corners and edges and rough surfaces are to be avoided.
3.17. The ring cables and fixations must be such that no shortening of the ring cables and straps can occur during the exercises of the gymnasts

4. Colour
4.1. The rings retain the natural colour of the material.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Rings

measured at 30 cm under the point of suspension

gemessen bei 30 cm unter Aufhängepunkt

détail
detail
Detail

anneaux + suspension
rings + suspension
Ringe + Aufhängung

diamètre de l'anneau
diameter of ring profile
Profil - Durchmesser des Rings

rücksichtlich,
construction selon le principe,
deuzi en exemple

dimensions: mandatory,
design: at your discretion,
drawing: typical example

Maße bindend,
Konstruktion festgelegt,
Zeichnung als Beispiel
Vaulting table

Men's Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of a slightly inclined table body which is mounted onto a "monostand" bottom frame. The table body consists of a front surface (A) which, seen from the direction of the vault, is inclined to 8° to the vertical and merges into two arched bends (B1 and B2) and then into a linear cover surface (C) which is inclined 3° to the horizontal. The table body is divided into a bounce area (A) and a push away area (B and C) with a clear colour contrast. The different surfaces merge into each other without any gaps in between. The push away area is slightly rounded in transversal direction (D).
   1.2. All corners and edges are rounded. The bottom frame must offer the table body a stable and secure supporting surface and must guarantee the abidance by the technical safety regulations. The bottom frame with cushioning may not present any parts that protrude from under the vaulting table’s body except on the landing side. As a collision protection dangerous metal parts of the support must be cushioned.
   1.3. Recommendation: All levers and locking mechanisms should be incorporated into the under construction.
   1.4. At the landing side the legs of the bottom frame must be cushioned at the same height level as the landing mat (20cm, Tolerance +10cm).
   1.5. The vaulting table including the cushioning of the bottom frame must represent a "monostand" - construction.

2. Measurements
   2.1. Table body:
      2.1.1. length: 120 cm +/- 1 cm
      2.1.2. width: 95 cm +/- 1 cm
   2.2. Height at the given measurement point (see drawing) \(^1\): 135 cm +/- 1 cm
   2.3. Upper height at the bounce area (see drawing) \(^1\): 122 cm +/- 1 cm
   2.4. Maximal orthogonal deviations from the given profile lines in longitudinal and transversal directions: < 1 cm
   2.5. Protrusion of the leg construction below the table body on the landing side (only allowed with appropriate cut-outs in the landing mat): 15 cm maximal
   2.6. Height of the leg frame: 8 cm maximal
   2.7. Circumference of the (cushioned) bottom frame including all levers and fixation devices between the height of 50 cm up to 85 cm: 1828m minimal
   2.8. Distance between the (cushioned) leg construction including all levers and fixation devices and the projection of the table body on all four sides between the height of 50 cm up to 85 cm: 25 cm minimal
   2.9. The adjusted height of the vaulting table must be clearly signed at the side. Additional Measurements see drawing. The profile lines towards A, B1, B2 and D are to be respected as indicated in the drawing. Maximum deviations < 1 cm – measured at a right angle to the profile line.

3. Functional properties
   3.1. The push away area must be shock-absorbing so that shoulders and wrists are protected.
   3.2. The rebound properties must be guaranteed to be as homogeneously as possible for all the possible impact points on the table body.
   3.3. Extended time-shift for rebounding energy at the impact points caused by extreme deflections is not acceptable.
Vaulting table

3.4. The table body must be evenly cushioned over the entire push away area. The cover material must be non-slippery but not rough. It may not cause a burning sensation on sliding.

3.5. The bounce area must be cushioned with a high-quality material in order to provide a good collision protection.

3.6. Recommendation: Any protruding items covered by the cushioning of the stand should be avoided or sufficiently covered to prevent perforation through the cushioning during accidental impact.

3.7. In order to avoid swaying, vibrations and shifting, the apparatus must have a device for fastening it to the floor.

4. Colour

4.1. The colour of the surface material may be chosen according to taste. For certain events the colour may be determined by the FIG

5. Run-up area

5.1. The run-up area is composed of a run-up mat and a rigid board underneath the vaulting board.

5.2. The run-up mat shall be positioned so the carpet threads open in the opposite direction of the gymnast run, offering the greatest friction between the feet and run up mat. The orientation of the run-up mat shall be the same in the training halls, warm-up halls, and competition hall.

5.3. The start of the run-up (2500 cm) shall be marked by a block, attached at the start of the vault run-up mat length (measured from the vertical projection of the beginning of the vaulting table, see “reference point” in the drawing, to the inner side of the block):

\[ 2500 + 10 \text{ cm} \]

5.3.1. width (run-up mat) \(100 +/- 1 \text{ cm}\)
5.3.2. width (rigid board underneath) \(100 \text{ cm min}\)
5.3.3. height (same height for run-up mat and board underneath) \(max 2,5 \text{ cm}\)
5.3.4. length of the rigid board underneath the vaulting board \(320 +/- 1 \text{ cm}\)

5.4. The colour of the run-up area must have a clear contrast to the colour of the vaulting board. The whole run up area (run-up mat and the rigid board underneath) shall have the same colour

6. Authorized landing zone

6.1. Marking on the supplementary mat above the landing mat (see drawing).

6.1.1. Width of the landing corridor at the table site: \(95 \text{ cm}\)
6.1.2. Width of the landing corridor (end of 600 cm landing mat): \(150 \text{ cm}\)
6.1.3. When the authorized landing zone is marked out by stripes: marking strip width on the supplementary mat:

\[ 5 \text{ cm } +/-0.5 \text{ cm} \]

The marking strip is part of the authorized landing zone.

6.1.4. Additional marking strip width in the centre of the landing corridor (see drawing):

\[ 5 \text{ cm } +/-0.5 \text{ cm} \]

Remarks concerning the drawings:

- Bottom frame construction schematized.
- All dimensions in cm
- Tolerances for all dimensions: +/- 1cm
- Maximal Orthogonal Deviations from the given profiles in longitudinal and transversal directions: <1 cm
- Dimensions binding; Construction may be different – drawing as example.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Vaulting table

Vue de côté
Side view
Ansicht Längseite

Vue de face
Front view
Ansicht Sturzseite

Vue de dessus
Top view
Aufsicht
Vaulting table

Dimensions mandatory; design: at your discretion; drawing: typical example

cotes obligatoires; construction selon le gré; dessin en exemple

dimensions: mandatory; design: at your discretion; drawing: typical example

Maße bindend; Konstruktion freigestellt; Zeichnung als Beispiel

Min. 250mm

Max. Length of circumference: 1828 mm

Vertical Projection

850 mm
Vaulting table

tapis de réception (MAG11) avec
tapis supplémentaire (MAG13)

landing mat (MAG11) with
supplementary mat (MAG13)

Landematte (MAG11) mit
Zusatzmattennaufhage (MAG13)

- engin
- apparatus
- Gerät
- tapis de réception
- landing mats
- Niedersprungmatten
- tapis supplémentaire
- supplementary mats
- Zusatzmattennaufhage
- piste d'élán
- run-up area
- Anlauffläche
- planche de support
- support board
- Unterlagebrett
- zone de sécurité
- safety zone
- Sicherheitszone
Parallel Bars

Men's Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of two bars of equal dimensions, which run parallel and at the same height.
   1.2. The position of the bars is parallel; pre-stressing is allowed.
   1.3. Each bar is supported by two upright supports, which stand on a stable base frame.
   1.4. The uprights consist of a static and mobile part, that allow the height and width adjustment of the bars.
   1.5. In cross section, bars present a drop like profile, which remains unchanged for their entire length.
   1.6. The profile of the bars shall lie within a ± 0.5 mm pipe around the specifications in the draw. The profile of the bars shall not include any kinks at the transitions from one radius to another (see draw)

2. Measurements
   2.1. Bars:
      2.1.1. Length 350 cm * 1 cm
      2.1.2. Vertical axis of profile 5 cm * 0.1cm
      2.1.3. Horizontal axis of profile 4 cm * 0.1cm
      2.1.4. Height of upper edge measured from the floor near to the supports 200 cm * 1 cm
      2.1.5. Distance between points of attachment 230 cm * 1 cm
      2.1.6. Distance between bars from 42 cm to 52 cm
      2.1.7. Distance between the columns at adjustment levels, min.48 cm
      2.1.8. Heights of mats 20 cm * 1 cm

* Tolerance +/-

Width adjustment: continuous adjustment of the distance between bars from at least 42 cm to 52 cm must be possible

3. Functional properties
   3.1. The bars must have elasticity.
   3.2. To assure the efficiency of this elasticity the fixing points of the bars on the uprights must be articulated.
   3.3. No significant swaying of bars in the longitudinal and transversal sense must occur.
   3.4. The entire apparatus must be stable. Incident vertical and transversal forces must not move the apparatus.
   3.5. The upper surface of the bars must be hygroscopic, and not be slippery.
   3.6. The surface of the bars must be made of wood or of other material with similar behaviour. If it is made of wood, it shall be free of errors (knots, fissure, etc.). Except for sanding, it receives no other treatment.
   3.7. The rails must be secured against breaking through.
   3.8. The apparatus must not have sharp corners of edges or any protruding parts.
   3.9. Rough surfaces are to be avoided.
   3.10. The adjustment screws must not have sharp corners of edges or any protruding parts.
   3.11. The adjustment devices must be double locked to assure that they do not cede during use.
   3.12. The base girders as well as the space between them must be covered by mats. They must be even and without gaps and of the same height as the surrounding mats, forming a uniform surface, from which only the uprights rise.

4. The rails retain the natural wood colour.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Parallel Bars

vue de côté
side view
Ansicht Längsseite

vue de face
front view
Ansicht Stirnseite

cotes obligatoires; construction selon le gré; dessin en exemple
dimension: mandatory; design at your discretion; drawing: typical example
Mal e bindend; Konstruktion freigegeben; Zeichnung als Beispiel

vue de dessus
top view
Aufsicht
détail porte-main
bar detail
Detail Barrenholm

échelle en continu
ininitely variable scale
Skala, stufenlos
Horizontal bar

Men’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The Horizontal bar consists of a round bar with a constant diameter, which is held horizontally by two supports.
   1.2. The supports stand erect on the floor and have additional floor plates for displacing force.
   1.3. They are held upright by tension cables (Ø max. 1 cm), connected to four floor anchors.

2. Measurements
   2.1. Horizontal bar:
      2.1.1. Diameter 2.8 cm * 0.01 cm
      2.1.2. Length between attachment points 240 cm * 1 cm
      2.1.3. Distance between the sockets min 200 cm * 1 cm
      2.1.4. Height of upper edge: measured from floor 280 cm * 1 cm
      2.1.5. The height of the horizontal bar must be adjustable for additional 10 cm to the standard height (280+10 cm * 1 cm).
      2.1.6. Height changes at competitions to 280+10 cm must be possible by devices at the supports above the upper surface of the landing mat (20 cm). Wires and chains shall be long enough to increment the height.
      2.1.7. Height increases of 10 cm shall be allowed in competitions for gymnasts who touch the mat with their feet during the exercise. This must be announced to the organizers at the time of the nominative entry and verified by the President or a member of the Superior Jury during the training.

   Equipment suppliers / Organizers must provide trained staff for a safe, fast and competent height increment if necessary.

   2.2. Distance of floor anchors:
      2.2.1. Lengthwise 550 cm * 5 cm
      2.2.2. Crosswise 400 cm * 5 cm

      * Tolerance +/-

3. Functional properties
   3.1. The horizontal Bar must be elastic, and be secured against breaking through.
   3.2. The elasticity is not just determined by the bar but also by the apparatus, acting as a whole. That is why the placement of the floor anchors, the supports and the tension cables, as well as the degree of tension must be strictly observed to insure uniform elasticity.
   3.3. The bars attachment to the uprights must be articulated, to assure the effectiveness of its elasticity.
   3.4. The bar must allow turn and glide movements without slipping.
   3.5. The apparatus must be stable. The supports must not move or sway during use.
   3.6. Neither the bar nor the tension cables should produce disturbing sounds during use.
   3.7. Preferably such materials should be used which guarantee a slim form and should not block the view

4. Colours
   4.1. The bar retains the colour of natural polished steel.
   4.2. Colours or designs of the remaining parts are left to the discretion of the manufacturer. The FIG may designate the colour for specific events

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Horizontal bar

- **vue de face** (front view)
- **vue de côté** (side view)
- **vue de dessus** (top view)

Dimensions:
- **240**
- **280**
- **300**
- **550**
- **1200**

Surface d'appui 550 x 1200
Floor area for apparatus 550 x 1200
Gerätestellfläche 550 x 1200

Maße bindend; Konstruktion freigestellt; Zeichnung als Beispiel
Dimensions: mandatory; design: at your discretion; drawing: typical example
Landing mats

Men’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. Their upper surface must be horizontal, even and without gaps.
   1.2. Specially designed mats must be used to cover the basis of the apparatus evenly

2. Measurements
   2.1. Height of the landing mats (MAG 3, 4, 5, 6): 20 cm * 1 cm
   2.2. Height of the landing mats pommel horse (MAG 2): 10 cm * 1 cm

   * Tolerance +/-
   lengths and widths see drawing

3. Functional properties
   3.1. Absorbency:
      3.1.1. Mats must absorb motion energy in order to reduce the reaction transmitted to the body
              of the landing gymnast to a tolerable proportion.
      3.1.2. They must respond to increased penetration with an evenly increasing resistance.
   3.2. Stability and Freedom of Movement:
      3.2.1. Absorbency of the mats must be balanced in order to guarantee standing, walking
              stability and freedom of movement.
   3.3. Indentations caused by the incidence of compressive forces must not encase the body parts,
        thereby hindering freedom of movements. They may not be too deep or narrow.
   3.4. If a cover is used, such cover may not plaid and create hindering folds. The mats' upper
        surface material must offer a balance between anti-slip and slippage. It should be neither
        slippery nor possess inhibiting resistance.
   3.5. By no means should mats be dislocated during performances. An anti-skid cover on the
        mats' underside may provide this condition.
   3.6. The border zones of the mats which are pushed together should practically have the same
        functional properties as the remaining surface. Impacts on the border zones should not
        cause different indentations than on the remaining surface. For this purpose, and to bridge
        joints, continuous runners are permitted.

4. Colour
   4.1. Preference should be given to uniform colours.
   4.2. The upper surface must not show optically disturbing patterns or insignia.
   4.3. The FIG may designate the colour for certain events

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please
see chapter IV
Landing mats

cotes minimales en cm, minimum dimensions in cm, minimale Maße in cm

MAG 2
cheval d'arçons
pommel horse
Pauschenpferd

MAG 3
anneaux
rings
Ringe

MAG 4
saut
vault
Sprung

PLUS: MAG 13 (200*200*10)
For: Training and Warming up Hall Podium Training
Warming up in Apparatus Finals on Podium

MAG 5
barres parallèles
parallel bars
Barren

PLUS: MAG 13 (200*200*10)
For: Training and Warming up Hall Podium Training
Warming up in Apparatus Finals on Podium

MAG 6
barre fixe
horizontal bar
Reck

PLUS: MAG 13 (200*200*10)
For: Training and Warming up Hall Podium Training
Warming up in Apparatus Finals on Podium
**Supplementary mats**

**Men's Artistic Gymnastics**

**Construction / Description of material, measurements**

1. **Use**
   1.1. The use of a supplementary mat is compulsory in competition for the athletes on the Vault (600 x 200 cm) and on Horizontal Bar (two, 400 x 200 cm).
   1.2. For training (in the training hall and during podium training) and in the warming up hall (correspondingly during the warming up session on the podium before the Apparatus Finals) an additional supplementary mat (200 x 200 cm) shall be available at the Floor, Rings, Vault and Horizontal Bar.

2. **Form**
   2.1. Their upper surface must be horizontal, even and without gaps.
   2.2. The supplementary mats have to be laid on the landing mats (MAG11). At the vault the supplementary mat (600 x 200 cm) shall be attached (i.e. using Velcro).

3. **Measurements**
   3.1. Height of the supplementary mats: 10 cm * 1 cm
   3.2. Vault (MAG4): 600 x 200 cm * 1 cm
   3.3. For the marking of the landing zone see MAG4.
   3.4. Horizontal bar (MAG6, at both sides): 400 x 200 cm * 1 cm
   3.5. Additional supplementary mat for training and warming up: Floor (MAG1), Rings (MAG3), Vault (MAG4), Horizontal bar (MAG6) 200 x 200 cm * 1 cm

   * Tolerance +/-

4. **Functional properties**
   4.1. The foam of the supplementary mats shall have a density of 25 kg / m³ (+/- 2.5 kg /m³). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 115 kPa, the compression stress value 40% shall be 4.0 (+/- 1.0) kPa (ISO 3386-1 – Amd1: 2010).
   4.2. By no means should mats be dislocated during performances. At the vault the supplementary mat (600 x 200 cm) shall be attached to the landing mat.

5. **Colour**
   5.1. Preference should be given to uniform colours.
   5.2. The upper surface must not show optically disturbing patterns or insignia.
   5.3. The FIG may designate the colour for certain events.
Vaulting board

Men's Artistic Gymnastics

- Vault (MAG4) – "hard" and "soft"
- Parallel bars (MAG5) – "soft"

Construction / Description of material, measurements

1. Form
   1.1. The profile of the vaulting board must adhere exactly to the respective blue print.
   1.2. Its upper surface rises in an arched form, approaching the horizontal between 75 cm and 95 cm, measured from the frontal angle. The height reached at this point, may not be exceeded. After this point, the upper surface may continue horizontally or slope downward.
   1.3. The rise of the arch is 3.5 cm +/- 0.5 cm.
   1.4. For competitions a “soft” and a “hard” vaulting board shall be available. The “hard” board shall be marked with a dot on the surface.

2. Measurements
   2.1. Length 120 cm * 1 cm
   2.2. Width 60 cm * 1 cm
   2.3. Height 20 cm * 1 cm
   2.4. Height (run-up side) max 3 cm
   2.5. Cushion Cover 2 cm * 0.5 cm
   2.6. Total height with cushion cover 22 cm * 1.5 cm
   2.7. Free space between floor and the lower edge of the vaulting board at the run-up side max. 1 cm

*Tolerance +/-

2.8. The stipulated length and height refer to the vertical projection of the upper plate, i.e. the take-off plate.
2.9. The base may be larger, but cannot extend more than 2 cm beyond the projection of the board.
2.10. Labelling of the “hard” vaulting board on the surface by a dot with clear contrast on the longitudinal midline:
   2.10.1. Distance to the side of run up 5 cm
   2.10.2. Diameter 8 cm

3. Functional properties
   3.1. The functional properties of the vaulting board (hardness, damping, elasticity) shall not be adjustable (i.e. springs must be fixed so that they cannot be easily removed by hand).
   3.2. The elasticity of the vaulting board must be most effective in the area between 75 cm and 95 cm, measured horizontally from the frontal angle.
   3.3. The vaulting-board must dampen the counter pressure, i.e. reduce motion energy. Elasticity and absorbency must be evenly distributed, so that the effect of the vaulting board differs only slightly, regardless whether the force of the impact is at the middle axis, or away from it.
   3.4. The upper surface of the vaulting board must offer slip resistance.
   3.5. The vaulting board must not produce disturbing sounds during its use.
   3.6. The board shall not slide at the time of impact of the athlete. This shall be achieved by anti-slip devices at the bottom side of the board or at the board underneath the vaulting board. The slip resistance shall be provided especially when the board bottoms out at the middle part.
   3.7. The vaulting board and its base may not have any sharp corners, edges and no protruding parts. Mainly the upper and under edge of the upper part of the Vaulting board towards the apparatus side (Vaulting Table, Balance Beam of Uneven Bars) shall be cushioned and rounded.
Vaulting board

4. Colour
   4.1. The choice of colour is left to the discretion of the manufacturer.
   4.2. With exception of the dot for “hard” vaulting boards optically disturbing patterns, stripes or insignia on the upper surface are not permitted.
   4.3. The FIG may designate the colour for certain events.

**Norms / Functional properties:** Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Vaulting board

variante d'abaissement
lowering variant
Absenkungsvariante

plan
profile
Schnitt

Marcage pour tremplin dur
mark for the hard board
Markierung für hartes Brett

vue de dessus
top view
Aufsicht

cotes obligatoires
dimensions: mandatory;
Maße bindend;

dessin en exemple
design: at your discretion;
Konstruktion freigestellt;

drawing: typical example
Zeichnung als Beispiel
Vaulting Board safety collar (Round off vaults)

Men's Artistic Gymnastics

Construction / Description of material, measurements

1. Use
  1.1. The usage of the safety collar around the vaulting board is compulsory for round-off entries at the vault. It is not allowed to place the safety collar on the foot of the vaulting table or underneath the vaulting table.

2. Form
  2.1. The safety collar is “u-shaped” and surrounds the vaulting board at the sides and the front toward the vaulting table. At the sides of the vaulting board its upper surface rises in an arched form in the same level as the vaulting board. At the front side of the vaulting board the surface of the safety collar is horizontal and even.
  2.2. The whole surface of the safety collar and the corresponding surface of the vaulting board need to be of the same height level.

3. Measurements
  3.1. Overall length: 120 cm (±20 cm)
  3.2. Minimal width at the side of the vaulting board: 20 cm
  3.3. Length at the front part of the vaulting board: 20 cm (± 0,5 cm)
  3.4. Maximal Difference between the height of the safety collars’ and the boards’ surface (respecting the arched form): ±1 cm
  3.5. Maximal gap between the safety collar and the vaulting board on all three sides: 0,5 cm

4. Functional Properties
  4.1. The safety collar has to provide a safe area around the vaulting board in case of an athlete misses the board for a take-off towards the vaulting table, therefore the safety collar must provide sufficient stability and cushioning at the whole upper surface. The bottom side shall have an “anti-slip” surface (i.e. Velcro) to prevent the safety collar from slipping away.
  4.2. The safety collar shall not hinder the vaulting board in its functional properties neither by restricting the airflow during the compression of the vaulting board nor hindering the movement of the upper parts during foot contact.

5. Colour
  5.1. The upper surface must not show optically disturbing patterns or insignia.
  5.2. The colour must be uniform and in contrast to the vaulting board.
  5.3. The FIG may designate the colour for certain events.
Mat for Hands (Vault)

Men's Artistic Gymnastics

Construction / Description of material, measurements

1. Use
   1.1. A mat for hands can be used by the athletes for round-off entries on the vault

2. Form
   2.1. The upper surface must be horizontal and even. The mat for hands can be laid on the run-up area to cushion the hand contact during round-off entries onto the vaulting board.

3. Measurements
   3.1. Length in direction of the run-up: 120 cm * +10 cm
   3.2. Width: 100 cm * ±1 cm
   3.3. Height of the mat for hands: 3 cm *±0,5 cm

   * Tolerance

4. Functional Properties
   4.1. The cover material must be non-slippery but not rough. It may not cause a burning sensation. If a cover is used, such cover may not be bulged and create hindering folds.
   4.2. The bottom side shall have an “anti-slip” surface (i.e. Velcro) to prevent the mat for hands from slipping away.

5. Colour
   5.1. The upper surface must not show optically disturbing patterns or insignia.
   5.2. The colour must be uniform and in contrast to the run-up area.
   5.3. The FIG may designate the colour for certain events.
Men's Artistic Gymnastics

Construction / Description of material, measurements

1. Use
   1.1. Helping device for the adjustment of an individual tension at the cables of the Rings, the High Bars and the Uneven Bars in MAG / WAG competitions.
   1.2. The use is not mandatory for FIG competitions, but highly recommended to protect the athletes from an unexpected breakdown of the gymnastics equipment due to too low cable tension or by damaging parts of the apparatus especially the ground anchors due to too high cable tension. Furthermore, the use serves the coaches and athletes to set the same individual tension on the cables in the training halls, the warming up hall and the competition hall. For the last aspect, the use of TCS makes sense only if devices are provided at all Rings, High Bars and Uneven Bars in the training halls, the warm-up hall and the field of play for the competition in question.

2. Requirements
   2.1. The device must be able to measure and digitally display the tension at the cables in Newtons with 100 N increments. The TCS should be applicable to the tensioning of all FIG approved Rings, High bars and Uneven Bars and shall be implemented at the chains (or cables). If used, Tension Control Sensors should be installed at all of these apparatuses in the training halls, the warmup hall and the competition site.
   2.2. A visible warning lamp will avoid dangerous cable adjustments by overload or underload in the tension of the equipment.
   2.3. With TCS athletes and coaches should have the possibility to adjust the same individual tension at the cables for the training, warming-up and competition apparatuses.
   2.4. A TCS shall be easy adjustable between chain or wires by shackles at all FIG approved equipment.

3. General Functions
   3.1. The TCS shall contain a clearly legible, digital display showing the tensile force between the attachment points in Newtons at 100 N increments.\(^1\)
       The unit Newton must be indicated by the letter "N".
   3.2. The digital display of the tensioning force and a clear visible warning light (if over- or underload occurs; see 3) shall only appear for a measurement time interval between 10 and 15 seconds after pressing an easily accessible START- button.
   3.3. The warning lamp shall light up during the measurement time interval if there is an over- or underload. This is the case for a tension of x > 5000N and x < 1000N.
   3.4. The mass of a TCS including its shackles shall be lower than 0,9 kg.
   3.5. The effective inner length between the two shackles as attachment between the chains or cables shall not exceed 0.18m.
   3.6. The measurement range shall be 0 – 10000N (displayed until 5000N in steps of 100N).
   3.7. The strength of a TCS including shackles shall be \( x > 15000 \text{ N} \).
   3.8. A TCS shall have no wired power supply. Only batteries or load cells with enough capacity (> 5 * 24h) and with easy charging are allowed.
   3.9. A suitable charger must be included with the TCS. If this is not the case, standard connections (e.g. USB, Micro-USB, USB Type C etc.) shall be used and a clear message shall be sent to the customer when purchasing a TCS that he himself has to take care of the charger, power bank or similar.
   3.10. The TCS shall come with an English written documentation containing a user`s guide and all necessary technical descriptions (including installation procedures). Furthermore, this documentation shall contain the following recommendation for mounting of a TCS:

---

\(^1\) Additional remark:
The one and ten digits, which are always 0 due to the rounding, do not have to be displayed variably but can be fixed on the housing. The combined reading of the variable display and the firmly imprinted digits shall result in Newton values.
4. Recommendations for mounting of TCS
   4.1. In general, only one single TCS on one of the four tension cable sides of the gymnastic apparatus is enough. However, two TCSs are required for special asymmetrical constructions of the Uneven Bars.
   4.2. A TCS should be installed at a cable where the desired tension for the gymnastic apparatus can be adjusted. In addition, the TCS must always be installed towards the head judge of the gymnastic apparatus.
   4.3. When measuring with TCS at the Uneven Bars, it is particularly important that all equipment in the training halls, the warm-up hall and the competition hall is set up with exactly the same distances between the ground anchors and the equipment stands, as otherwise different measured values may occur with the same functional property of the gymnastic equipment.
   4.4. A sufficient battery charge must be ensured for the entire duration of the competitions. In addition to a full charge at the beginning, this must be done during longer competitions by charging with the corresponding chargers during the periods of no use (e.g. overnight. If chargers or Powerbanks are not included in the scope of delivery, the user must ensure that they are available in sufficient numbers.
   4.5. If the use of TCS is planned, it is advisable to contact the manufacturer of the gymnastics equipment in good time in order to ensure that the additional length by the TCS will not cause any problems with the cables and chains. If necessary certain suitable accessories need to be ordered from the supplier(s).
The Best Quality for Your Best Performance

Senoh's Gymnastics Expertise is cultivated from its history since 1948 and we are one of the long standing companies approved by FIG.
2.2. WAG Women's artistic gymnastics
Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of a slightly inclined table body which is mounted onto a "monostand" bottom frame. The table body consists of a front surface (A) which, seen from the direction of the vault, is inclined to 8° to the vertical and merges into two arched bends (B1 and B2) and then into a linear cover surface (C) which is inclined 3° to the horizontal. The table body is divided into a bounce area (A) and a push away area (B and C) with a clear colour contrast. The different surfaces merge into each other without any gaps in between. The push away area is slightly rounded in transversal direction (D).
   1.2. All corners and edges are rounded. The bottom frame must offer the table body a stable and secure supporting surface and must guarantee the abideance by the technical safety regulations. The bottom frame with cushioning may not present any parts that protrude from under the vaulting table's body except on the landing side. As a collision protection dangerous metal parts of the support must be cushioned.
   1.3. Recommendation: All levers and locking mechanisms should be incorporated into the under construction.
   1.4. At the landing side the legs of the bottom frame must be cushioned at the same height level as the landing mat (20cm, Tolerance +10cm).
   1.5. The vaulting table including the cushioning of the bottom frame must represent a "monostand" - construction.

2. Measurements
   2.1. Table body:
      2.1.1. length:        120 cm +/- 1 cm
      2.1.2. width:          95 cm +/- 1 cm
   2.2. Height at the given measurement point (see drawing) ):   135 cm +/- 1 cm
   2.3. Upper height at the bounce area (see drawing) ):   122 cm +/- 1 cm

   Remark: For competitions the vaulting table must be positioned on a rigid board which has the same height as the run-up area (see below)

   )¹: In competitions the apparatus height must correspond to the top level of the run up area.

   2.4. Maximal orthogonal deviations from the given profile lines in longitudinal and transversal directions: < 1 cm

   2.5. Protrusion of the leg construction below the table body on the landing side (only allowed with appropriate cut-outs in the landing mat): 15 cm maximal

   2.6. Height of the leg frame        8 cm maximal

   2.7. Circumference of the (cushioned) bottom frame including all levers and fixation devices between the height of 50 cm up to 85 cm 1828cm minimal

   2.8. Distance between the (cushioned) leg construction including all levers and fixation devices and the projection of the table body on all four sides between the height of 50 cm up to 85 cm 25 cm minimal

   2.9. The adjusted height of the vaulting table must be clearly signed at the side. Additional Measurements see drawing. The profile lines towards A, B1, B2 and D are to be respected as indicated in the drawing. Maximum deviations < 1 cm – measured at a right angle to the profile line.

3. Functional properties
   3.1. The push away area must be shock-absorbing so that shoulders and wrists are protected.
Vaulting Table

3.2. The rebound properties must be guaranteed to be as homogeneously as possible for all the possible impact points on the table body.
3.3. Extended time-shift for rebounding energy at the impact points caused by extreme deflections is not acceptable.
3.4. The table body must be evenly cushioned over the entire push away area. The cover material must be non-slippery but not rough. It may not cause a burning sensation on sliding.
3.5. The bounce area must be cushioned with a high-quality material in order to provide a good collision protection.
3.6. Recommendation: Any protruding items covered by the cushioning of the stand should be avoided or sufficiently covered to prevent perforation through the cushioning during accidental impact.
3.7. In order to avoid swaying, vibrations and shifting, the apparatus must have a device for fastening it to the floor.

4. Colour
4.1. The colour of the surface material may be chosen according to taste. For certain events the colour may be determined by the FIG

5. Run-up area
5.1. The run-up area is composed of a run-up mat and a rigid board underneath the vaulting board.
5.2. The run-up mat shall be positioned so the carpet threads open in the opposite direction of the gymnast run, offering the greatest friction between the feet and run up mat. The orientation of the run-up mat shall be the same in the training halls, warm-up halls, and competition hall.
5.3. The start of the run-up (2500 cm) shall be marked by a block, attached at the start of the vault run-up mat length (measured from the vertical projection of the beginning of the vaulting table, see “reference point” in the drawing, to the inner side of the block):

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (run-up mat)</td>
<td>100 +/- 1 cm</td>
</tr>
<tr>
<td>Width (rigid board underneath)</td>
<td>100 cm min</td>
</tr>
<tr>
<td>Height (same height for run-up mat and board underneath)</td>
<td>max 2,5 cm</td>
</tr>
<tr>
<td>Length of the rigid board underneath the vaulting board</td>
<td>320 +/- 1 cm</td>
</tr>
</tbody>
</table>

5.4. The colour of the run-up area must have a clear contrast to the colour of the vaulting board. The whole run up area (run-up mat and the rigid board underneath) shall have the same colour.

6. Authorized landing zone
6.1. Marking on the supplementary mat above the landing mat (see drawing).
6.1.1. Width of the landing corridor at the table site: 95 cm
6.1.2. Width of the landing corridor (end of 600 cm landing mat): 150 cm
6.1.3. When the authorized landing zone is marked out by stripes: marking strip width on the supplementary mat: 5 cm +/-0.5 cm
   The marking strip is part of the authorized landing zone.
6.1.4. Additional marking strip width in the centre of the landing corridor (see drawing): 5 cm +/-0.5 cm

Remarks concerning the drawings:
- Bottom frame construction schematized.
- All dimensions in cm
- Tolerances for all dimensions: +/- 1 cm
- Maximal Orthogonal Deviations from the given profiles in longitudinal and transversal directions:<1cm
- Dimensions binding; Construction may be different– drawing as example.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Vaulting Table

A; B1; B2; C; D:
confer le Texte
see text
siehe Text

cotés obligatoires;
dimension: mandatory;
Maße bindend;
construction selon le gré;
dimension au pour discretion;
dimensionierung verbindlich;
dessin en exemple;
drawing: typical example;
dimensionierung verbindlich;
zeichnung als Beispiel
Vaulting Table

Min. 250mm

Max. Length of circumference: 1828 mm

Min. 250mm

Vertical Projection

850 mm

Dimensions: mandatory;
Design: at your discretion;
Drawing: typical example

Maße bindend;
Konstruktion freigestellt;
Zeichnung als Beispiel
Vaulting Table

tapis de réception (WAG11) with tapis supplémentaire (WAG13)

landing mat (WAG11) with supplementary mat (WAG13)

Landematte (WAG11) mit Zusatzmattenußlage (WAG13)

ingénieur
apparat
Gerät
tapis de réception
landing mats
Niedersprungmatten
tapis supplémentaire
supplementary mats
Zusatzmattenußlage
piste d'élans
run-up area
Anlauffläche
plancher de support
support board
Unterlagebrett

zone de sécurité
safety zone
Sicherheitszone
Uneven Bars

Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of two bars with circular profile, running parallel, but at different heights. The bars are carried by a support base.
   1.2. The support base has four uprights, which are held by tension cables(Ø max 1 cm) anchored to the floor.
   1.3. Each bar is carried by 2 supports.
   1.4. One low and one high support are connected to a floor device and a width adjustment device.

2. Measurements
   2.1. Bars:
      2.1.1. Diameter 4,0 cm 3,92 ≤ x ≤ 4,04 cm
      2.1.2. Length 240 cm * 1,0 cm
      2.1.3. Distance between the sockets min 200 cm * 1,0 cm
   2.2. Height of the upper edge of the bars in inner diagonal position 180 cm:
      2.2.1. upper bar (to the floor) 250 cm * 1,0 cm
      2.2.2. lower bar (to the floor) 170 cm * 1,0 cm
      2.2.3. Inner diagonal distance (see drawing) between the 2 bars adjustable from min 130 - 180 cm max * 1,0 cm
      2.2.4. The diagonal distance must be adjustable continuously or with increments of max 2 cm.
      2.2.5. The diagonal distance (expressed in cm) must be shown on a scale at the distance adjustment device.
      2.2.6. The height of the bars must be adjustable for additional 10 cm to the standard height (lower bar: 170+10 cm; upper bar: 250+10 cm *1 cm). At the increased height the inner diagonal distance between the bars shall be not more than 182 max* 1,0 cm
      2.2.7. Height increases of 10 cm shall be allowed in competitions for gymnasts who touch the mat with their feet during the exercise. This must be announced to the organizers at the time of the nominative entry and verified by the President or a member of the Superior Jury during the training.
      2.2.8. Equipment suppliers / Organizers must provide trained staff for a safe, fast and competent height increment if necessary.
      2.2.9. Transition periods for different technical solutions and maximal inner diagonal distances between the bars for 10 cm height increase to the standard height, upon request of taller athletes only:

<table>
<thead>
<tr>
<th>Transition Period</th>
<th>10 cm Height Adaption by</th>
<th>Maximal inner diagonal Distance between Bars (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 2017-01-01 to 2019-12-31</td>
<td>a) 10 cm Blocks underneath the base *)</td>
<td>182 ± 1</td>
</tr>
<tr>
<td></td>
<td>b) 10 cm height increase at the stands *)</td>
<td></td>
</tr>
<tr>
<td>From 2020-01-01</td>
<td>10 cm height increase at the stands *)</td>
<td>182 ± 1</td>
</tr>
</tbody>
</table>
| *) : provided that this technical solution is homologated by passed FIG standardization tests.

2.3. Distance of floor anchors:
   2.3.1.lengthwise 550 cm * 5 cm
   2.3.2.crosswise 400 cm * 5 cm

3. Functional properties
   3.1. Both bars must have the same, uniform elasticity. To assure this, their supports must be articulated.
   3.2. The bar surface must provide a good glide and turn capability but may not be slippery.
   3.3. To ensure grip stability, the bars’ surface must absorb moisture.
Uneven Bars

3.4. The bars must be secured (reinforced) against breaking through.
3.5. A safeguard system must prevent an unintended release of the movable components of the apparatus.
3.6. When the apparatus is used for performances, no hindering sways or vibrations and counter swings should occur.

4. Colour
   4.1. The bars retain the natural colour of wood. They are neither lacquered, nor polished.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Uneven Bars

vue de face
front view
Frontansicht

vue de côté
side view
Seitenansicht

vue de dessus
top view
Aufsicht

porte-main
bar
Barrenholm

point du mesure pour différents systèmes
de fixation de la barre
measurement point with variants of supports
Meßstelle bei Varianten von Holmauflagen

cotes obligatoires;
dimensions: mandatory;
Maße bindend;

construction selon le gré;
design: at your discretion;
Konstruktion freigestellt;
dessin en exemple;
drawing: typical example;
Zeichnung als Beispiel
Balance Beam

Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of a beam, which is held by a base consisting of 2 supports.
   1.2. Lengthwise, the beam shall be straight and its upper surface and axis shall be even and horizontal.
   1.3. Viewed in cross section, the sides of the beam are arched.
   1.4. The base design is not prescribed. However, its legs may not protrude beyond the projection of the beam in its longitudinal direction. The supports of the beam must be cushioned. The cushioned parts shall not protrude the vertical projection of the beam.
   1.5. The front parts of the beam must be cushioned by rounded, damping padding. The padding must reach the top edge of the beam, but the radius of the rounding must begin immediately at the end of the beam to guarantee that the padding does not prolong the total length of the beam (examples see drawing)

2. Measurements
   2.1. Beam:
      2.1.1. Length 500 cm * 1 cm
      2.1.2. Cross section:
         2.1.2.1. Upper surface 10 cm * 0,5 cm
         2.1.2.2. Horizontal axis 13 cm * 0,5 cm
         2.1.2.3. Vertical axis 16 cm * 0,5 cm
         2.1.2.4. Bottom surface 10 cm * 0,5 cm
      2.1.3. Height of upper surface measured from the floor 125 cm * 1 cm
   2.2. Legs of base:
      2.2.1. Distance max. 500 cm
      2.2.2. Width max. 125 cm
   2.3. Cushioning of the supports:
      2.3.1. Thickness min. 15 mm
      2.3.2. Width of the supports incl. cushioning max. 13 cm
   2.4. Cushioning of the front parts of the beam:
      2.4.1. Thickness min. 15 mm up to max. 30 mm
   2.5. The Beam might have a height adjustment. It can be continuous or in 5 cm increments. However, the prescribed height of 125 cm * 1cm shall be observed at competition site.
   2.6. Continuous height adjustment is recommended for levelling purposes.

3. Functional properties
   3.1. The surface must have impact absorbent characteristics to protect the gymnast’s joints and limbs. It should also have elasticity to support the jumps.
   3.2. One of the most important properties of the beam is that it must be step safe. Elasticity must be equally distributed and must not disturb a sure step.
   3.3. The upper surface material of the beam must permit effortless gliding and turning, but not be slippery.
   3.4. The front parts of the beam must be padded.
   3.5. The cover material must not produce skin burns.
   3.6. The upper edge of the padding at the front parts of the beam shall not be harder than the surface of the beam.
   3.7. All protruding parts, especially screws underneath the balance beam shall be cushioned or hidden.
   3.8. During an exercise, the beam may not move, topple or sway

4. Colour
   4.1. The colour of the beam must distinctly differ from the colour of the mats.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Balance Beam

vue de côté
side view
Ansicht Längsseite

coupe longitudinale
beam end, longitudinal
Längsschnitt Balkenkopf

coupe transversale
de la poutre
beam, cross-section
Balken-Querschnitt

dimensions mandatory;
design: at your discretion;
Malte bindend;
Konstruktion: frei gestellt;
Zeichnung als Beispiel

cotes obligatoires
construction selon le gré;
dessin en exemple
Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The Performance Area shall have a square format. The surface must be horizontal, even and without gaps. All plates of the under construction within the Performance Area shall have the same arrangement of elastic elements.
   1.2. All elements of the floor have to be connected firmly to prevent slipping.
   1.3. Border: Horizontal and even, at the same height as the Performance area
   1.4. Border’s variant : Width 50 cm, horizontal and even, at the same height as the Performance area, additional 50 cm inclination border, slope may not exceed 25 %.
   1.5. Safety zone: The safety zone shall be kept totally free as a surrounding zone around the performance area and the border. It shall be horizontal, even and without gaps.

2. Measurements
   2.1. Performance area 1200 cm x 1200 cm  Tolerance +/- 3 cm
   2.2. Diagonals of the performance area: 1697 cm +/- 5cm
   2.3. Border 100 cm, min.
   2.4. Border as a variant
      2.4.1. Horizontal Area, Width 50 cm, min.
      2.4.2. Slope max. 25 %, Width 50 cm, min.
      2.4.3. Height of outer border at the very end 3,5 cm, max.
   2.5. When there is a delimitation strip between the Performance area and the border:
      2.5.1. Delimitation strip width 5 cm, Tolerance +/- 0,5 cm
   2.6. The delimitation strip is part of the Performance area.

3. Functional Properties of the performance area and border
   3.1. Equal elasticity on the surface as well as dampening.
   3.2. When in use it should not have any hindering motion energy
   3.3. Elasticity and dampening must be balanced in such a way that they guarantee the gymnast stability and freedom of movement. It must not restrict turns and slide movements.
   3.4. The surface cover of the Performance area must provide a balance between anti-skid and slippage. It must not cause skin burns.
   3.5. The floor must not produce disturbing sound during the execution of an exercise. It must assure a low noise level.

4. Of plain colour which choice is left to the manufacturer’s discretion. Dark colours are not allowed. For certain events the FIG may stipulate the colours. The delimitation shall have a clear contrast to the performance area.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Floor

200 100 1200 100 200
200 50 1200 50 200
1800

surface de compétition, arena, Wettkampffläche
cadre, edge, Umrandung
zone de sécurité, safety zone, Sicherheitszone

variantes, profile - variants, Schnitt - Varianten A, B, C

confer le texte / see text/ siehe Text

A

B

C

FIG Apparatus Norms Parts I - III
2019
Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. Their upper surface must be horizontal, even and without gaps.
   1.2. Specially designed mats must be used to cover the basis of the apparatus evenly

2. Measurements
   2.1. Height of the landing mats (WAG 1, WAG2 and WAG3): 20 cm * 1 cm

   * Tolerance +/-
   lengths and widths see drawing

3. Functional properties
   3.1. Absorbency:
      3.1.1. Mats must absorb motion energy in order to reduce the reaction transmitted to the body
              of the landing gymnast to a tolerable proportion.
      3.1.2. They must respond to increased penetration with an evenly increasing resistance.
   3.2. Stability and Freedom of Movement:
      3.2.1. Absorbency of the mats must be balanced in order to guarantee standing, walking
              stability and freedom of movement.
   3.3. Indentations caused by the incidence of compressive forces must not encase the body parts,
        thereby hindering freedom of movements. They may not be too deep or narrow.
   3.4. If a cover is used, such cover may not plaid and create hindering folds. The mats' upper
        surface material must offer a balance between anti-slip and slippage. It should be neither
        slippery nor possess inhibiting resistance.
   3.5. By no means should mats be dislocated during performances. An anti-skid cover on the
        mats' underside may provide this condition.
   3.6. The border zones of the mats which are pushed together should practically have the same
        functional properties as the remaining surface. Impacts on the border zones should not
        cause different indentations than on the remaining surface. For this purpose, and to bridge
        joints, continuous runners are permitted.

4. Colour
   4.1. Preference should be given to uniform colours.
   4.2. The upper surface must not show optically disturbing patterns or insignia.
   4.3. The FIG may designate the colour for certain events

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please
see chapter IV
Landing Mats

cotes minimales en cm, minimum dimensions in cm, minimale Maße in cm

WAG 1
saut
vault
Sprung

PLUS: WAG 13 (200*200*10)
For Training and Warming up Hall Podium Training Warming up in Apparatus Finals on Podium

WAG 3
barres asymétriques
uneven bars
Stufenbarren

PLUS: WAG 17
For Training and Warming up Hall Podium Training Warming up in Apparatus Finals on Podium

WAG 2
poutre
beam
Balken

PLUS: MAG 13 (200*200*10)
For Training and Warming up Hall Podium Training Warming up in Apparatus Finals on Podium
Supplementary Mats

Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The usage is compulsory in competition for the athletes at Uneven Bars, Balance Beam (400 x 200 cm) and at the vault (600 x 200 cm).
   1.2. For training (in the training hall and during podium training) and in the warming up hall (correspondingly during the warming up session on the podium before the Apparatus Finals) an additional supplementary mat (200 x 200 cm) shall be available at the Vault, Balance Beam and Floor

2. Form
   2.1. Their upper surface must be horizontal, even and without gaps.
   2.2. The supplementary mats have to be laid on the landing mats (WAG11). At the vault the supplementary mat (600 x 200 cm) shall be attached (i.e. using Velcro)

3. Height of the supplementary mats:
   3.1. Vault (WAG1): 600 x 200 cm * 1 cm
   3.2. For the marking of the landing zone see WAG1.
   3.3. Uneven Bars, Balance Beam (WAG2, WAG 3): 400 x 200 cm * 1 cm
   3.4. Additional supplementary mat for training and warming up:
   3.5. Vault (MAG4), Balance beam (WAG3), Floor (WAG4), 200 x 200 cm * 1 cm

   * Tolerance +/-

4. Functional properties
   4.1. The foam of the supplementary mats shall have a density of 25 kg / m³ (+/- 2.5 kg /m³ ). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 115 kPa, the compression stress value 40% shall be 4,0 (+/- 1,0) kPa (ISO 3386-1 – Amd1: 2010)
   4.2. By no means should mats be dislocated during performances. At the vault the supplementary mat (600 x 200 cm) shall be attached to the landing mat
   4.3. Preference should be given to uniform colours.
   4.4. The upper surface must not show optically disturbing patterns or insignia.

5. Colour
   5.1. The FIG may designate the colour for certain event.
Vaulting Board

Women’s Artistic Gymnastics

- Vault (WAG1) – “hard” and “soft”
- Uneven bars (WAG2) – “soft”
- Balance beam (WAG3) – “soft”

Construction / Description of material, measurements

1. Form
   1.1. The profile of the vaulting board must adhere exactly to the respective blueprint.
   1.2. Its upper surface rises in an arched form, approaching the horizontal between 75 cm and 95 cm, measured from the frontal angle. The height reached at this point, may not be exceeded. After this point, the upper surface may continue horizontally or slope downward.
   1.3. The rise of the arch is 3.5 cm +/- 0.5 cm.
   1.4. For competitions a “soft” and a “hard” vaulting board shall be available. The “hard” board shall be marked with a dot on the surface.

2. Measurements
   2.1. Length       120 cm   * 1 cm
   2.2. Width           60 cm   * 1 cm
   2.3. Height           20 cm   * 1 cm
   2.4. Height (run-up side) max 3 cm
   2.5. Cushion Cover                      2 cm   * 0.5 cm
   2.6. Total height with cushion cover         22 cm   * 1.5 cm
   2.7. Free space between floor and the lower edge of the vaulting board at the run-up side max. 1 cm

   *Tolerance +/-

2.8. The stipulated length and height refer to the vertical projection of the upper plate, i.e. the take-off plate.
2.9. The base may be larger, but cannot extend more than 2 cm beyond the projection of the board.
2.10. Labelling of the “hard” vaulting board on the surface by a dot with clear contrast on the longitudinal midline:
   2.10.1. Distance to the side of run up 5 cm
   2.10.2. Diameter 8 cm

3. Functional properties
   3.1. The functional properties of the vaulting board (hardness, damping, elasticity) shall not be adjustable (i.e. springs must be fixed so that they cannot be easily removed by hand).
   3.2. The elasticity of the vaulting board must be most effective in the area between 75 cm and 95 cm, measured horizontally from the frontal angle.
   3.3. The vaulting-board must dampen the counter pressure, i.e. reduce motion energy. Elasticity and absorbency must be evenly distributed, so that the effect of the vaulting board differs only slightly, regardless whether the force of the impact is at the middle axis, or away from it.
   3.4. The upper surface of the vaulting board must offer slip resistance.
   3.5. The vaulting board must not produce disturbing sounds during its use.
   3.6. The board shall not slide at the time of impact of the athlete. This shall be achieved by anti-slip devices at the bottom side of the board or at the board underneath the vaulting board. The slip resistance shall be provided especially when the board bottoms out at the middle part.
   3.7. The vaulting board and its base may not have any sharp corners, edges and no protruding parts. Mainly the upper and under edge of the upper part of the Vaulting board towards the apparatus side (Vaulting Table, Balance Beam of Uneven Bars) shall be cushioned and rounded.
Vaulting Board

4. Colour
   4.1. The choice of colour is left to the discretion of the manufacturer.
   4.2. With exception of the dot for “hard” vaulting boards optically disturbing patterns, stripes or insignia on the upper surface are not permitted.
   4.3. The FIG may designate the colour for certain events.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Vaulting Board

plan
profile
Schnitt

vue de dessus
top view
Aufsicht

variant d'abaissement
lowering variant
Absenkungsvariante

Marcage pour tremplin dur
mark for the hard board
Markierung für hartes Brett

cotes obligatoires;
dimensions: mandatory;
Maße bindend;

construction selon le gré;
design: at your discretion;
Konstruktion freigestellt;
dessin en exemple;
drawing: typical example;
Zeichnung als Beispiel
Vaulting Board safety collar (Round off vaults)

Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Use
   1.1. The usage of the safety collar around the vaulting board is compulsory for round-off entries at the vault. It is not allowed to place the safety collar on the foot of the vaulting table or underneath the vaulting table.

2. Form
   2.1. The safety collar is “u-shaped” and surrounds the vaulting board at the sides and the front toward the vaulting table. At the sides of the vaulting board its upper surface rises in an arched form in the same level as the vaulting board. At the front side of the vaulting board the surface of the safety collar is horizontal and even.
   2.2. The whole surface of the safety collar and the corresponding surface of the vaulting board need to be of the same height level.

3. Measurements
   3.1. Overall length: 120 cm (±20 cm)
   3.2. Minimal width at the side of the vaulting board: 20 cm
   3.3. Length at the front part of the vaulting board: 20 cm (± 0,5 cm)
   3.4. Maximal Difference between the height of the safety collars’ and the boards’ surface (respecting the arched form): ±1 cm
   3.5. Maximal gap between the safety collar and the vaulting board on all three sides: 0,5 cm

4. Functional Properties
   4.1. The safety collar has to provide a safe area around the vaulting board in case of an athlete misses the board for a take-off towards the vaulting table, therefore the safety collar must provide sufficient stability and cushioning at the whole upper surface. The bottom side shall have an “anti-slip” surface (i.e. Velcro) to prevent the safety collar from slipping away.
   4.2. The safety collar shall not hinder the vaulting board in its functional properties neither by restricting the airflow during the compression of the vaulting board nor hindering the movement of the upper parts during foot contact.

5. Colour
   5.1. The upper surface must not show optically disturbing patterns or insignia.
   5.2. The colour must be uniform and in contrast to the vaulting board.
   5.3. The FIG may designate the colour for certain events.
Mat for Hands (Vault)

Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Use
   1.1. A mat for hands can be used by the athletes for round-off entries on the vault

2. Form
   2.1. The upper surface must be horizontal and even. The mat for hands can be laid on the run-up area to cushion the hand contact during round-off entries onto the vaulting board.

3. Measurements
   3.1. Length in direction of the run-up: 120 cm * +10 cm
   3.2. Width: 100 cm * ±1 cm
   3.3. Height of the mat for hands: 3 cm *±0.5 cm

   * Tolerance

4. Functional Properties
   4.1. The cover material must be non-slippery but not rough. It may not cause a burning sensation. If a cover is used, such cover may not be bulged and create hindering folds.
   4.2. The bottom side shall have an “anti-slip” surface (i.e. Velcro) to prevent the mat for hands from slipping away.

5. Colour
   5.1. The upper surface must not show optically disturbing patterns or insignia.
   5.2. The colour must be uniform and in contrast to the run-up area.
   5.3. The FIG may designate the colour for certain events.
Spotter mat (Uneven Bars)

Women's Artistic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. Spotter mats must be covered with a material which will slide easily.
   1.2. The mats must be provided with at least two handles or one long handle on the two long sides of the mat.

2. Measurements
   2.1. Length       200 cm - 50 cm
   2.2. Width       150 cm - 50 cm
   2.3. Thickness        15 cm - 5 cm

3. Functional properties
   3.1. The foam of the spotter mats shall have a density of 20 kg / m³ (+/- 2 kg /m³). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 90 kPa, the compression stress value 40% shall be 2,5 (+/- 0.5) kPa (ISO 3386-1: 1986 – Amd1: 2010).

4. Colour
   4.1. Preference should be given to uniform colours.
   4.2. The upper surface must not show optically disturbing patterns or insignia.
   4.3. The FIG may designate the colour for certain events.

*Remark:* The specifications for the spotter mat are the same as for the spotter mat in Trampoline Gymnastics (TRA12).
Women’s Artistic Gymnastics

Construction / Description of material, measurements

1. Use
   1.1. Helping device for the adjustment of an individual tension at the cables of the Rings, the
        High Bars and the Uneven Bars in MAG / WAG competitions.
   1.2. The use is not mandatory for FIG competitions, but highly recommended to protect the
        athletes from an unexpected breakdown of the gymnastics equipment due to too low cable
        tension or by damaging parts of the apparatus especially the ground anchors due to too high
        cable tension. Furthermore, the use serves the coaches and athletes to set the same
        individual tension on the cables in the training halls, the warming up hall and the competition
        hall. For the last aspect, the use of TCS makes sense only if devices are provided at all
        Rings, High Bars and Uneven Bars in the training halls, the warm-up hall and the field of play
        for the competition in question.

2. Requirements
   2.1. The device must be able to measure and digitally display the tension at the cables in
        Newtons with 100 N increments. The TCS should be applicable to the tensioning of all FIG
        approved Rings, High bars and Uneven Bars and shall be implemented at the chains (or
        cables). If used, Tension Control Sensors should be installed at all of these apparatuses in
        the training halls, the warmup hall and the competition site.
   2.2. A visible warning lamp will avoid dangerous cable adjustments by overload or underload in
        the tension of the equipment.
   2.3. With TCS athletes and coaches should have the possibility to adjust the same individual
        tension at the cables for the training, warming-up and competition apparatuses.
   2.4. A TCS shall be easy adjustable between chain or wires by shackles at all FIG approved
        equipment.

3. General Functions
   3.1. The TCS shall contain a clearly legible, digital display showing the tensile force between the
        attachment points in Newtons at 100 N increments.¹
        The unit Newton must be indicated by the letter “N”.
   3.2. The digital display of the tensioning force and a clear visible warning light (if over- or
        underload occurs; see 3) shall only appear for a measurement time interval between 10 and
        15 seconds after pressing an easily accessible START- button.
   3.3. The warning lamp shall light up during the measurement time interval if there is an over- or
        underload. This is the case for a tension of x > 5000N and x < 1000N.
   3.4. The mass of a TCS including its shackles shall be lower than 0,9 kg.
   3.5. The effective inner length between the two shackles as attachment between the chains or
        cables shall not exceed 0.18m.
   3.6. The measurement range shall be 0 – 10000N (displayed until 5000N in steps of 100N).
   3.7. The strength of a TCS including shackles shall be
        x > 15000 N.
   3.8. A TCS shall have no wired power supply. Only batteries or load cells with enough capacity (>5 * 24h) and with easy charging are allowed.
   3.9. A suitable charger must be included with the TCS. If this is not the case, standard
        connections (e.g. USB, Micro-USB, USB Type C etc.) shall be used and a clear message
        shall be sent to the customer when purchasing a TCS that he himself has to take care of the
        charger, power bank or similar.

¹ Additional remark:
The one and ten digits, which are always 0 due to the rounding, do not have to be displayed variably but can be
fixed on the housing. The combined reading of the variable display and the firmly imprinted digits shall result in
Newton values.
3.10. The TCS shall come with an English written documentation containing a user’s guide and all necessary technical descriptions (including installation procedures). Furthermore, this documentation shall contain the following recommendation for mounting of a TCS:

4. Recommendations for mounting of TCS

4.1. In general, only one single TCS on one of the four tension cable sides of the gymnastic apparatus is enough. However, two TCSs are required for special asymmetrical constructions of the Uneven Bars.

4.2. A TCS should be installed at a cable where the desired tension for the gymnastic apparatus can be adjusted. In addition, the TCS must always be installed towards the head judge of the gymnastic apparatus.

4.3. When measuring with TCS at the Uneven Bars, it is particularly important that all equipment in the training halls, the warm-up hall and the competition hall is set up with exactly the same distances between the ground anchors and the equipment stands, as otherwise different measured values may occur with the same functional property of the gymnastic equipment.

4.4. A sufficient battery charge must be ensured for the entire duration of the competitions. In addition to a full charge at the beginning, this must be done during longer competitions by charging with the corresponding chargers during the periods of no use (e.g. overnight). If chargers or Powerbanks are not included in the scope of delivery, the user must ensure that they are available in sufficient numbers.

4.5. If the use of TCS is planned, it is advisable to contact the manufacturer of the gymnastics equipment in good time in order to ensure that the additional length by the TCS will not cause any problems with the cables and chains. If necessary certain suitable accessories need to be ordered from the supplier(s).
2.3. RG Rhythmic gymnastics
Performance Area

Rhythmic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The Performance Area shall have a square format. The surface must be horizontal, even and without gaps.
   1.2. Border:
      1.2.1. Horizontal, even, and at the same height as the performance area.
   1.3. Safety zone:
      1.3.1. The safety zone shall be kept totally free as a surrounding zone around the performance area and the border. It shall be horizontal, even and without gaps.
   1.4. Direction of carpet seams:
      1.4.1. If the surface is composed of several parallel carpet rolls, the seams shall be perpendicular to the direction of the judges’ tables.
   1.5. The performance area shall be composed by a damping under – construction and an overlying carpet

2. Measurements
   2.1. Performance area 1300 x1300 cm
      Tolerance +/- 3 cm
   2.2. Diagonals of the performance area: 1838 cm +/- 5 cm
   2.3. Border (25 + 25) 50 cm
   2.4. Safety border 200 cm
   2.5. Border as a variant
      2.5.1. Horizontal Area, Width 25 cm
      2.5.2. Slope max. 20 %, Width 25 cm
   2.6. When there is a delimitation strip between the performance area and the border:
      2.6.1. Width of the delimitation strip 5 cm +/- 0,5 cm
      2.6.2. The delimitation strip is part of the performance area.
   2.7. Performance area and border:
      2.7.1. Equal elasticity on the surface as well as dampening.
      2.7.2. When in use it should not have any motion energy.
      2.7.3. Elasticity and dampening must be balanced in such a way that they guarantee the gymnast stability and freedom of movement. It must not restrict turns and slide movements.
      2.7.4. The surface cover of the performance area must provide a balance between anti-skid and slippage. It must not cause skin burns.
      2.7.5. The performance area must not produce disturbing sound during the execution of an exercise. It must assure a low noise level.

3. Colour
   3.1. Of plain colour which choice is left to the manufacturer’s discretion. Dark colours are not allowed. For certain events the FIG may stipulate the colours. The delimitation shall have a clear contrast to the performance area

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Performance Area

confer text/ see text/ siehe Text

- **surface de compétition, arena, Wettkampffläche**
- **cadre, edge, Umrandung**
- **zone de sécurité, safety zone, Sicherheitszone**

- **variantes, profile - variants, Schnitt - Varianten** A, B, C
Rope, Hoop, Ball, Clubs, Ribbon

Rhythmic Gymnastics

All hand apparatuses which are supposed to be used at FIG sanctioned events shall have markings according to FIG rules. The markings shall not be removable. At FIG sanctioned events only FIG approved hand apparatuses shall be used.

Construction / Description of material, measurements

RG 2 – Rope

1. Material: Hemp or similar suitable material
2. Length: Optional for Senior and Junior Gymnasts
3. Thickness: Uniform or reinforced in the centre.
4. Shape: Both rope-ends, with or without knots. Without wooden-handle. May be wrapped with a thin non-slip material in a length corresponding to the width of a hand.
5. Colour: Optional. Bright colour preferred

RG 3 – Hoop

1. Material: Wood or synthetics
2. Weight:
   2.1. 300 g. minimum
   2.2. 260 g. minimum for Juniors
   The weight specification shall be fulfilled unwrapped.
3. Inner diam.:
   3.1. 800 – 900 mm Senior Gymnasts
   3.2. 700 – 900 mm Junior Gymnasts
   Can be wrapped

RG 4 – Ball

1. Material: Rubber or soft plastic, antistatic
2. Weight: 400 g. minimum
3. Diameter: 180 – 200 mm Senior and Junior Gymnasts

RG 5 – Clubs

1. Material: Wood or synthetics
2. Length: 400 – 500 mm Senior and Junior Gymnast
3. Weight: 150 g. min.
   The weight specification shall be fulfilled unwrapped.
4. Shape: Bottle shape
5. Diameter of the head: 30 mm max.
   (The head of the clubs must be fixed firmly to the neck of the apparatus. It shall not rotate)
Rope, Hoop, Ball, Clubs, Ribbon

RG 6 – Ribbon

1. Material: Satin or similar
2. Length: Total length 6 m (min) in one piece (5 m min for Juniors). The part at which the ribbon is attached to the cane is doubled in a length of 1 m ± 0,1 m.
3. Weight: 35 g. minimum, without the cane (30 g. min. for Juniors)
4. Width: 40 – 60 mm

RG 7 – Ribbon cane

1. Cane
   1.1. Material: Wood, bamboo, fibreglass or synthetics
   1.2. Material: Wood, bamboo, fibreglass or synthetics
   1.3. Length: 500 – 600 mm
   1.4. Diameter: maximum 10 mm at the thickest point.
   1.5. Shape: cylindrical or conic. The handle may be wrapped in a thin anti-slip material with a length of 100 mm max.
   1.6. Colour: Optional.
2. Fixture:
   2.1. Material: cord, nylon-thread or similar item, or moveable ring resp. a swivel attached to the cane.
   2.2. Length: 70 mm maximum
Rope, Hoop, Ball

**Rope: Size of Logos**

<table>
<thead>
<tr>
<th>Manufacturer's Logo/Name</th>
<th>Value</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
<tr>
<td>length</td>
<td>32 mm - 24 mm</td>
<td></td>
</tr>
</tbody>
</table>

Position on the right side and on the middle axes at the inner side of the hoop.

**FIG Approved**

<table>
<thead>
<tr>
<th>Manufacturer's Logo/Name</th>
<th>Value</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
<tr>
<td>length</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
</tbody>
</table>

Remark: The FIG Logo can be turned to arrange the same orientation as the Manufacturer's Logo/Name.

**Hoop: Size of Logos**

<table>
<thead>
<tr>
<th>Manufacturer's Logo/Name</th>
<th>Value</th>
<th>Tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
<tr>
<td>length</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
</tbody>
</table>

Position on the left side and on the middle axes at the inner side of the hoop.

**Ball: Size of Logos**

<table>
<thead>
<tr>
<th>Manufacturer's Logo/Name</th>
<th>Value</th>
<th>Tolerance</th>
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<tr>
<td>width</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
<tr>
<td>length</td>
<td>32 mm - 24 mm</td>
<td></td>
</tr>
</tbody>
</table>

Distance from the valve 10 mm ± 5 mm

Remark: The Manufacturer's Logo can be rectangular or curved as indicated in the drawing.

**Remarks**

- For placement and size of the logos see: FIG Advertising Rules / Apparatus chart.
• Official Partner of F.I.G.
• Certified Supplier of Apparel and Apparatus for Japan Gymnastics Association
• Official Supplier for Bulgarian R.G. Federation

SASKAI SPORTS INC. 3-15-3 Ikojiri, Setagaya-ku, Tokyo 154-0001 Japan Tel. 81-3-3410-3391 Fax. 81-3-3410-3488

www.sasaki-sports.co.jp
Clubs, Ribbon

**Ribbon: Size of Logos**

<table>
<thead>
<tr>
<th>Manufacturers Logo/Name</th>
<th>value</th>
<th>Tolerance ±</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
<tr>
<td>length</td>
<td>32 mm</td>
<td>24 mm</td>
</tr>
</tbody>
</table>

**FIG Approved**

<table>
<thead>
<tr>
<th>value</th>
<th>Width ± 2 mm</th>
<th>Length ± 2 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>10 mm</td>
</tr>
<tr>
<td>length</td>
<td>10 mm</td>
<td>10 mm</td>
</tr>
</tbody>
</table>

Position at the beginning of the Ribbon (canes' side) and at the end of the Ribbon

Distance from the end 100 mm ± 20 mm

Distance from the beginning 50 mm ± 10 mm

Remark: The FIG Logo can be turned to arrange the same orientation as the Manufacturers Logo/Name

**Clubs: Size of Logos**

<table>
<thead>
<tr>
<th>Manufacturers Logo/Name</th>
<th>value</th>
<th>Tolerance ±</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
<tr>
<td>length</td>
<td>32 mm</td>
<td>24 mm</td>
</tr>
<tr>
<td>Distance to the body</td>
<td>20 mm</td>
<td>± 15 mm</td>
</tr>
</tbody>
</table>

**FIG Approved**

<table>
<thead>
<tr>
<th>value</th>
<th>Width ± 2 mm</th>
<th>Length ± 2 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>10 mm</td>
</tr>
</tbody>
</table>

Remark: The FIG Logo can be turned to arrange the same orientation as the Manufacturers Logo/Name

**Ribbons Cane: Size of Logos**

<table>
<thead>
<tr>
<th>Manufacturers Logo/Name</th>
<th>value</th>
<th>Tolerance ±</th>
</tr>
</thead>
<tbody>
<tr>
<td>width</td>
<td>10 mm</td>
<td>± 2 mm</td>
</tr>
<tr>
<td>length</td>
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**FIG Approved**

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</thead>
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<td>10 mm</td>
</tr>
<tr>
<td>length</td>
<td>10 mm</td>
<td>10 mm</td>
</tr>
</tbody>
</table>

Distance to the 100 mm reinforcement 10 mm ± 2 mm

Remark: The FIG Logo can be turned to arrange the same orientation as the Manufacturers Logo/Name

For placement and size of the logos see FIG Advertising Rules / Apparatus chart

Figures on transparencies must not exceed 30 cm in diameter.

For placement and size of logos see FIG Advertising Rules / Apparatus chart

Mass sans baton mass without cane

35 g min

(10 g min Juniors)

1000 +/- 100 un mètre double eine meter doubled verdoppelt auf 1 Meter

100 max

100 max

40 - 60
toutes longueurs en mm
all lengths in mm

Alle Längen in mm

Clubs, Ribbon

**Clubs, Ribbon**

- **Ribbon: Size of Logos**
  - Manufacturers Logo/Name
  - FIG Approved
  - Ribbons Cane: Size of Logos

**Clubs: Size of Logos**

- Manufacturers Logo/Name
- FIG Approved

**Ribbons Cane: Size of Logos**

- Manufacturers Logo/Name
- FIG Approved
Measurement Table for RG with Balance

Rhythmic Gymnastics for testing prescriptions of RG 3,4,5,6,7

Construction / Description of material, measurements

1. Form
   1.1. The apparatus consists of a table or a plate which can be placed on a table with special trays and tools for controlling prescribed parameters of RG equipment during the competition. An additional, suitable balance is needed.

2. Measurements:
   2.1. The device should be suitable for measuring:
       2.1.1. interior diameter of hoops (RG3) (Senior): 800 – 900mm
       2.1.2. interior diameter of hoops (RG3) (Junior): 700 – 900mm
       2.1.3. diameter of balls (RG4): 180 – 200mm
       2.1.4. diameter of the end of clubs (RG5): 30mm max.
       2.1.5. diameter of the cane of gymnastic ribbons (RG6): 10mm max
       2.1.6. length of clubs (RG5): 400 - 500mm
       2.1.7. length of ribbons (RG6) (Senior): 6000mm min.
           [can be measured as 6 * 1000mm]
       2.1.8. length of ribbons (RG6) (Junior): 5000mm min.
           [can be measured as 5 * 1000mm]
       2.1.9. length of the doubled part of ribbons (RG6): 1000mm (+/- 100)
       2.1.10. length of the cane of gymnastic ribbons (RG6): 500 - 600mm
       2.1.11. length of the optional handle part of the cane of gymnastic ribbons (RG6): 100mm max.
       2.1.12. length of the fixture of gymnastic ribbons (RG6): 70mm max.
       2.1.13. width of ribbons (RG6): 40 - 60mm

   2.2. The balance should be suitable for measuring the following weights (“masses”) with a precision of +/- 1 g:
       2.2.1. hoops (RG3): 300g min.
       2.2.2. balls (RG4): 400g min.
       2.2.3. clubs (RG5): 150g min.
       2.2.4. gymnastic ribbons without the cane (RG6, Seniors): 35g min.
       2.2.5. gymnastic ribbons without the cane (RG6, Juniors): 30g min.

   2.3. The measurement trays for diameters of Hoops for measuring diameters shall control the whole circles, not only segments of the circles (“hoops shall not be bent during measurements”). Each Tray of 700mm, 800mm & 900 mm, must have a thickness minimum of 15mm.

   2.4. All measures shall be indicated unmistakably on labels.

   2.5. The weight of hoops shall be measured in a hanging position of the hoops.
Example for positioning of trays and tools for controlling the prescribed parameters:
Janssen-Fritsen presents:

Free Exercise Floor Apollo Antwerp
Springboard Kreon Gold
Springboard Iris Silver
The new Pegases

Official partner FIG
www.janssen-fritsen.com
2.4. TRA Trampoline Gymnastics
Trampoline

1. Frame
   1.1. Interior measurements of the frame, with bed under tension, but without frame pads:
   
   1.1.1. Length
   
   505 cm +/- 6 cm

   1.1.2. Width
   
   291 cm +/- 5 cm

   1.2. For safety reasons the profile of the frame must have rounded edges. The radius must be min 15mm. The profile of the frame may also be oval or round, but in these cases, it must be guaranteed, that coaches are able to stand on the frame safely in order to give the necessary support to the athletes. Special attention must be given to the padding of the frame.

2. Trampoline Bed

   2.1. The height of the bed, measured from the floor, shall meet all of the following three specifications:

   2.1.1. At least one of the heights h1; h2; h3 or h4 (see figure) 115.5 cm +/- 0.5 cm

   2.1.2. All heights h1; h2; h3 and h4 (see figure) ≥ 115.0 cm

   2.1.3. The heights h1; h2; h3 and h4 shall be adjusted, so that the bed is horizontal in all longitudinal and transversal directions with all four feet of the trampoline in firm contact to the ground.

   2.2. Dimensions of the bed under tension ready for use, including attachment straps:

   Length (bl1, bl2; bl3; see figure) 428 cm +/- 6 cm

   Width (bw1; bw2; bw3; see figure) 214 cm +/- 5 cm

   2.3. The bed must be constructed from light coloured bands, webs, strings etc., which must be held together in such a way that they are not displaced during use.

   2.3.1. Web Construction:

   2.3.1.1. Width of web under tension 0.55 cm +/- 0.15 cm

   2.3.1.2. Distance between any two webs 1.6 cm (max.)

   2.3.2. String Construction:

   2.3.2.1. Width of strings under tension 0.3 cm +/- 0.1 cm

   2.3.2.2. Distance between any two strings no greater than 1 cm

   2.4. The bed must be strong enough to withstand wear, and not tear when in use.

   2.5. Two rectangular areas must be marked out clearly in red lines. Each area must be symmetrically oriented to the middle of the bed. The width of the delimitation lines must be between 13 and 24 mm. The lines belong to the marked areas:

   2.5.1. Area A (rectangle 215 * 108):

   2.5.1.1. the delimitation lines for area A shall not only define the rectangle area of 215 * 108 cm, but shall also be continued to the end of the bed (see figure).

   2.5.1.2. Length (cl1, cl2, cl3; see figure) 215 +/- 4 cm

   with: max(cl1, cl2, cl3) – min(cl1, cl2, cl3) < 2 cm

   2.5.1.3. Width (dw1, dw2, dw3; see figure) 108 +/- 4 cm

   with: max(dw1, dw2, dw3) – min(dw1, dw2, dw3) < 2 cm

   2.5.2. Area B (quadratic 108 * 108):

   2.5.2.1. Length (el1, el2, el3; see figure) 108 +/- 4 cm

   with: max(el1, el2, el3) – min(el1, el2, el3) < 2 cm

   2.5.2.2. Width (dw1, dw2, dw3; see figure) 108 +/- 4 cm

   with: max(dw1, dw2, dw3) – min(dw1, dw2, dw3) < 2 cm

2.5.3. The center of the bed must be indicated by a red cross.

Trampoline beds are subject to considerable changes in dimensions due to the high tensions. All length specifications shall be fulfilled at the following instant of times:

Competition: At the time of the officially announced apparatus control before the competitions and thereafter.

During other official apparatus controls (i.e. test at a FIG test institute): After a period of 24h with the trampoline unfolded, ready for use and preconditioned with 20° ± 3°C and a humidity of < 60%.
2.5.3.1. Dimensions

3. Suspension
The bed must be suspended with springs in such a way as to present no danger to users. The tension on the bed should be such that the bed stabilises within a second after contact.

4. Area free of obstruction beneath the bed
The trampoline must be constructed so that the competitor will not touch any part of the frame beneath the bed.

5. Safety Padding
5.1. The frame and springs must be entirely covered by a shock absorbing padding, the thickness of which must be between 3,0 cm and 5,0 cm at the edge near the bed. At the edge over the frame the thickness must not be necessarily the same: It can increase up to 10 cm, however the maximum slope between the two edges shall not be higher than 10 degrees from horizontal plane. The padding must not touch any part of the bed. The padding may extend over the bed by up to 6 cm, but the available unobstructed jumping area may not be smaller than the minimum bed size (422 cm x 209 cm).

5.2. The padding should be firmly fixed to the frame without hindering the normal action of the bed and springs. It should not cause noise through flapping.

5.3. The bottom of the padding, at the side of the bed, should not protrude above the level of the bed by more than 6 cm. The padding must be stable enough to allow for a person to stand on it without protruding into the spaces between the springs.

5.4. The foam of the safety padding shall have a density of 30 kg / m³ (+/-3,0 kg /m³). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 260 kPa, the compression stress value 40% shall be 70,0 (+/- 15,0) kPa (ISO 3386-1 – Amd1: 2010).

6. Safety Platform
6.1. Platforms must be placed at both ends of the trampoline. The platform must be made of a framework which is firmly attached to the trampoline. The platforms must be constructed so that it is shock absorbent and the surface must be covered with a shock absorbing mat, firmly fixed to the platforms.

6.1.1. The mats must have the following dimensions:
6.1.1.1. Width: 300 cm +/- 2,5 cm
6.1.1.2. Length (including wedge, 40 cm) 240 cm +/-2,5 cm
6.1.1.3. Thickness at the bedside 7,5 cm +/-0,5 cm
6.1.1.4. Thickness at the end 20 cm +/-2,0 cm

6.1.2. The platforms dimensions must be such, that the mats are sufficiently supported to ensure, that on landing, it supports the weight of the competitor without collapsing or folding.

6.1.3. The foam of the mats shall have a density of 25 kg / m³ (+/-2,5 kg /m³). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 130 kPa, the compression stress value 40% shall be 4,0 (+/- 1,0) kPa (ISO 3386-1 – Amd1: 2010).

6.2. The mat covering the platform shall end between inner and outer edge of the frame pad. The distance to the inner edge of the frame pad shall be 5 to 8 cm. (see figure)

7. Safety mats on the ground: Mats shall rest on the ground around and between the trampolines for safety reasons. All mats shall be of the same height and type. One of the following two types shall be used:

7.1. Mats which satisfy the specifications of MAG11/WAG11/TRA11. (measures: Height: 20 cm, Width: 200 cm, Tolerance: +/- 1 cm).

7.2. Mats with a core which shall have a density of 25 kg / m³ (+/-2,5 kg /m³). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 130 kPa, the compression stress value 40% shall be 4,0 (+/- 1,0) kPa (ISO 3386-1 – Amd1: 2010). Ultimate tensile strength (ISO 1798: 2008) of the cover material shall be 560-600 kPa. (measures: Height: 20 cm min, Width: 200 cm, Tolerance: +/- 1 cm).
Trampoline

vue de côté
side view
Seitenansicht

vue de face
front view
Frontansicht

vue de dessus
top view
Aufansicht

Délimitation de la toile avec des bandes de fixation
boundary for the bed includ. straps
Begrenzung Tuch inklusive Befestigungsbänder

Detail
Tapis sur la plateforme de sécurité
mat covering the platform
Matte auf Sicherheitsplattform

cotes obligatoires;
construction selon le gré;
dessin au sample
dimensions: mandatories;
design: at your discretion;
drawing: typical example
Maße bindend;
Konstruktion festgelegt;
Zeichnung als Beispiel
**Trampoline**

**Specifications:**
Hauteur, longueur et largeur de la toile
height, length and width measurements of the bed
Höhe, Länge- und Breitenmessung

---

zones des mesures de la hauteur
areas for height measurement
Messbereiche für Höhenmessung

---

toile: Mesures de la longueur et de la largeur
bed: Length and width measurements
Tuch: Längen und Breitenmessungen

---

secteur A: Mesures de la longueur et de la largeur
area A: Length and width measurements
Fläche A: Längen und Breitenmessungen

---

secteur B: Mesures de la longueur
area B: Length measurements
Fläche B: Längenmessungen

---

<table>
<thead>
<tr>
<th>cotes obligatoires</th>
<th>dimensions mandatory</th>
<th>Maße bindend</th>
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<td>construction selon le grè</td>
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<td>Konstruktion festgesetzt</td>
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<tr>
<td>dessin en exemple</td>
<td>drawing typical example</td>
<td>Zeichnung als Beispiel</td>
</tr>
</tbody>
</table>
Double Mini - Trampoline

1. Frame
   1.1. For safety reasons no metal bars or other firm fixings are allowed across the ends of the Double Mini-Tramp other than at floor level.
   1.2. For safety reasons the profile of the frame must have rounded edges. The radius must be minimum 15mm.
   1.3. Safety Padding
      1.3.1. The frame and springs shall be entirely covered by shock absorbing padding, the maximum Thickness of which shall be greater or equal 30mm and not be greater than 55mm. The padding must not cover any part of the bed.
      1.3.2. The padding should be firmly fixed to the frame without hindering the normal action of the bed and the springs. Nor should it cause noise through flapping.
      1.3.3. The bottom of the padding at the side of the bed should not protrude above the level of the bed by more than 6 cm.
      1.3.4. The bars beneath the bed must be padded.
      1.3.5. The frame ends on the dismount end must be covered with at least 50mm pads firmly joined together with the other padding.

2. Bed
   2.1. The bed must be constructed from light coloured bands, webs, strings etc., which must be held together in such a way that they are not displaced during use.
   2.2. Dimensions of the bed under tension
      2.2.1. Length bl₁; bl₂; bl₃ (see figure), edge to edge of included end markers 285 cm +/-5 cm
      2.2.2. Width (bw₁; bw₂; bw₃; see figure), including attachment straps: 92 cm +/-4 cm
      2.3. Height of bed, measured from the floor with bed under tension:
         2.3.1. Mounting End 45 cm +/- 1,5 cm
         2.3.2. Dismounting End 70 cm +/- 1,5 cm
   2.4. Width of web under tension: 0,4 cm min. 1,3 cm max.
   2.5. The strands of webbing (or string) must be sewn together, and the distance between any two strands must not be greater than 1, 8 cm (max: 1 cm with string-construction).
   2.6. The bed must be strong enough to withstand wear, and not tear when in use.
   2.7. The Penalty Zones must be marked in red on the bed. The dimensions of these zones are:
      2.7.1. End markers 13 cm +/- 2 cm
      2.7.2. Centre zone 39 cm +/- 1 cm
      2.7.3. Distance of the Centre Zone 90 cm +/- 2 cm
      (Measured from the mounting end)

3. Landing Area
   3.1. The landing area shall be covered with a landing mat (TRA11) which is shock absorbent and which allows a stable landing on the feet. Dimensions of the landing area must be:
      3.1.1. Length (landing mat, TRA11) 600 cm +/- 1 cm
      3.1.2. Width (landing mat, TRA11) 300 cm +/- 1 cm
      3.1.3. Thickness (landing mat, TRA 11) 30 cm +/- 1 cm
   3.2. Additional safety mat behind the landing area
      3.2.1. An additional safety mat with the minimum dimensions of 300 * 200 * 20 cm must be placed directly behind the landing area.

---

Double Mini Trampoline beds are subject to considerable changes in dimensions due to the high tensions. All length specifications shall be fulfilled at the following instant of times:

**Competition:** At the time of the officially announced apparatus control before the competitions and thereafter.

**During other official apparatus controls (i.e. norm-control by TC members):** After a period of 24h with the double mini trampoline unfolded, ready for use and preconditioned with 20° ± 3° C and a humidity of < 60%.
Double Mini - Trampoline

3.3. Landing Zones
3.3.1. Two landing zones must be marked out in the landing area, with either the whole zone in a contrasting colour or, with lines 50mm wide in a contrasting colour. If lines are used, they have to belong to their zones.
3.3.2. Landing Zone C: The size of landing zone C is identical to the size of the Landing Area (see 3.1 above)
3.3.3. Landing Zone B: The outer edge of the landing zone (or lines) marks the boundary of the landing zone, the dimensions of which must be:
   3.3.3.1. Length 400 cm +/- 1 cm
   3.3.3.2. Width 200 cm +/- 1 cm
3.3.4. Landing Zone A: The outer edge of the landing zone (or lines) marks the boundary of the landing zone, the dimensions of which must be:
   3.3.4.1. Length 250 cm +/- 1 cm
   3.3.4.2. Width 100 cm +/- 1 cm
3.3.5. For certain events the FIG may stipulate the colours of the different zones.

4. Run-up
4.1. Floor mats shall be used on the run-up:
   4.1.1. Length 2000 cm+ 250 cm
   4.1.2. Minimum Width 100 cm
   4.1.3. Thickness 2,5 cm+/-0,5 cm

5. Safety mats on the ground: On the two sides of the DMT a mat shall rest on the ground for safety reasons (measures: Height: 20 cm, Width: 200cm, Tolerance: +/- 1 cm). They have to satisfy the specifications of MAG11/WAG11/TRA11.
Double Mini - Trampoline

vue de face
front view
Frontansicht

vue de côté
side view
Seitenansicht

vue de dessus sur les deux surfaces, rectangulaires
top view, perpendicular to both areas
Aufansicht, rechtwinklig zu beiden Flächen

r: min 15mm

Variantes - détail profil du cadre
variants - detail profile of the frame
Varianten - Detail Rahmenprofil

Maße bindend;
construction selon le gré;
dessin en exemple

dimensions: mandatory;
design: at your discretion;
drawing: typical example

Variante - Detail Rahmenprofil

 dimensions: mandatory;
design: at your discretion;
drawing: typical example

Zeichnung als Beispiel
Double Mini - Trampoline

toile: Mesures de la longueur et de la largeur
bed: Lenght and width measurements
Tuch: Längen und Breitenmessungen

délimitation de la toile
largeur: Avec des bandes de fixation
longueur: bordure à bordure des marquages des extrémités

boundary for the bed
width: Includ. straps
length: Edge to edge of the included end markers

Begrenzung Tuch
Breite: Inklusive Befestigungsbänder
Länge: Von Rand zu Rand der zugehörigen Endmarkierungen
Double Mini - Trampoline

tapis supplémentaire de sécurité
additional safety mat
zusätzliche Sicherheitsmatte

engin
apparatus
Gerät

Zone C

Zone B

Zone A

piste d'élan
run-up area
Anlauffläche

zone de sécurité
safety zone
Sicherheitszone

Point de référence
reference point
Referenzpunkt

100 200 300

200 70 250 400 600

2000
Tumbling track

1. Tumbling Track
   1.1. The tumbling track must be constructed with a sprung surface, which must be padded. If constructed of several units these must be firmly fixed together as so not to separate in use and showing no space between them.
   1.2. Dimension:
   1.2.1. Length      2500 cm  + 100 cm
   1.2.2. Height      30 cm max (from 1.1.2012: ± 1 cm)
   1.2.3. Width of construction    200 cm   ± 5 cm
   1.3. Markings
   1.3.1. Two lines, 50mm wide in a contrasting colour must mark the outer edge (boundary) of the track.
   1.3.2. Distance (incl. lines):     150 cm  +/- 1 cm
   1.3.3. A centre line, 5 cm wide, in a contrasting colour, must mark the centre line of the tumbling track.

2. Landing Area
   2.1. The landing area shall be covered with a landing mat (TRA11) which is shock absorbent and which allows a stable landing on the feet. The height of the landing mat shall be equal to the height of the tumbling track.
   2.2. Dimensions of the landing area must be:
   2.2.1. Length (landing mat TRA11)      600 cm+/- 1 cm
   2.2.2. Width (landing mat TRA11)      300 cm+/- 1 cm
   2.2.3. Thickness (landing mat TRA11)       30 cm +/- 1 cm
   2.3. Additional safety mat behind the landing area
   2.3.1. An additional safety mat with the minimum dimensions of 300 * 200 * 20 cm must be placed directly behind the landing area.

2.4. Landing Zone
   2.4.1. A landing Zone must be marked out in the landing area, with either the whole zone in a contrasting colour or, with lines 50mm wide in a contrasting colour. The outer edge of the landing zone (or lines) marks the boundary of the landing zone, the dimensions of which must be:
   2.4.1.1. Length       400 cm +/- 1 cm
   2.4.1.2. Width       200 cm +/- 1 cm
   2.4.1.3. A non-compulsory supplementary mat in the same dimension as the landing zone can be used (TRA13). In this case the supplementary mat must be attachable to the landing mat (i.e. using Velcro). The colour of the supplementary mat must be in contrast to the landing mat and the tumbling track or with lines according to the description above.

3. There must be a run up area (same level as tumbling track) prior to the tumbling track.
   3.1. Dimensions:
   3.1.1. Length         1000 cm+100 cm
   3.1.2. Minimal width     100 cm

4. There must be a hard and a soft Vaulting Board available which meets the specifications of TRA 14.
Double Mini-Trampoline; Tumbling; Trampoline

Construction/Description of material, measurements

1. Form
   1.1. The surface must be horizontal, even and without gaps. To arrange the whole area several mats can be composed.

2. Measurements
   2.1. Height safety mat Trampoline; DMT (TRA1, TRA2): 20 cm +/- 1 cm
   2.2. Height landing mat DMT; Tumbling (TRA2, TRA3): 30 cm +/- 1 cm

3. Functional properties
   3.1. Absorbency:
      3.1.1. The mats must absorb motion energy, in order to reduce the reaction transmitted to the body of the landing gymnast, to a tolerable proportion.
      3.1.2. They must respond to increased penetration with an evenly increasing resistance.
   3.2. Stability and Freedom of Movement:
      3.2.1. Absorbency of the mats must be balanced in order to guarantee standing, walking stability and freedom of movement; there must be an equal balance between elasticity and absorbency properties.
   3.3. Indentations caused by the incidence of compressive forces must not encase the body parts, thereby hindering freedom of movements mainly of rolling a part of the body.
   3.4. If a cover is used, such cover may not cause any hindering folds. The mats’ upper surface material must offer a balance between anti-slip and slippage. It must be neither slippery nor possess inhibitory resistance.
   3.5. By no means should mats be dislocated during performances. An anti-ski cover on the mats’ underside may provide this condition.
   3.6. The border zones of the mats which are pushed together should practically have the same functional properties as the remaining surface. Impacts on the border zones should not cause different indentations than on the remaining surface. For this purpose, and to bridge joints, continuous runners are permitted.

4. Colour
   4.1. Preference should be given to uniform colours.
   4.2. The upper surface must not show optically disturbing patterns or insignia.
   4.3. The FIG may designate the colour for certain events.
Trampoline; Double Mini-Trampoline

Construction / Description of material, measurements

1. Form
   1.1. Spotter mats must be covered with a material which will slide easily.
   1.2. The mats must be provided with at least two handles or one long handle on the two long sides of the mat.

2. Measurements
   2.1. Length  200 cm - 50 cm
   2.2. Width    150 cm - 50 cm
   2.3. Thickness 15 cm - 5 cm

3. Functional properties
   3.1. The foam of the spotter mats shall have a density of 20 kg / m³ (+/-2 kg /m³). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 90 kPa, the compression stress value 40% shall be 2,5 (+/- 0.5) kPa (ISO 3386-1: 1986 – Amd1: 2010).

4. Colour
   4.1. Preference should be given to uniform colours.
   4.2. The upper surface must not show optically disturbing patterns or insignia.
   4.3. The FIG may designate the colour for certain events
Supplementary mat
Tumbling

Construction / Description of material, measurements

1. Use
   1.1. A supplementary mat must be available for the landing area in Tumbling. The usage is not compulsory.

2. Form
   2.1. Their upper surface must be horizontal, even and without gaps. It shall have the size of the landing zone. The supplementary mat can be laid on the landing mats (TRA11), if used it must be attachable to the landing mat (i.e. using Velcro).

3. Measurements
   3.1. Height of the supplementary mat: 10 cm * 1 cm
   3.2. Surface: 400 x 200 cm * 1 cm

4. Functional properties
   4.1. The foam of the supplementary mats shall have a density of 25 kg / m³ (+/- 2.5 kg / m³). The ultimate tensile strength of the foam (ISO 1798: 2008) shall be ≥ 115 kPa, the compression stress value 40% shall be 4.0 (+/- 1.0) kPa (ISO 3386-1: 1986 – Amd1: 2010).
   4.2. Their upper surface must be horizontal, even and without gaps.
   4.3. The supplementary mats have to be laid on the landing mats. The supplementary mat shall be attachable (i.e. using Velcro).

5. Colour
   5.1. The colour of the supplementary mat must be in contrast to the landing mat and the tumbling track or with lines according to the description of the landing zone (see TRA3).
   5.2. The upper surface must not show optically disturbing patterns or insignia.
   5.3. The FIG may designate the colour for certain events
Vaulting Board

Tumbling
- “Hard” and “Soft”

Construction / Description of material, measurements

1. Form
1.1. The profile of the vaulting board must adhere exactly to the respective blue print.
1.2. Its upper surface rises in an arched form, approaching the horizontal between 75 cm and 95 cm, measured from the frontal angle. The height reached at this point, may not be exceeded. After this point, the upper surface may continue horizontally or slope downward.
1.3. The rise of the arch is 3.5 cm +/- 0.5 cm.
1.4. For competitions a “soft” and a “hard” vaulting board shall be available. The “hard” board shall be marked with a dot on the surface.

2. Measurements
2.1. Length 120 cm * 1 cm
2.2. Width 60 cm * 1 cm
2.3. Height 20 cm * 1 cm
2.4. Height (run-up side) max 3 cm
2.5. Cushion Cover 2 cm * 0.5 cm
2.6. Total height with cushion cover 22 cm * 1.5 cm
2.7. Free space between floor and the lower edge of the vaulting board at the run-up side max. 1 cm *Tolerance +/-

2.8. The stipulated length and height refer to the vertical projection of the upper plate, i.e. the take-off plate.
2.9. The base may be larger, but cannot extend more than 2 cm beyond the projection of the board.
2.10. Labelling of the “hard” vaulting board on the surface by a dot with clear contrast on the longitudinal midline:
2.10.1. Distance to the side of run up 5 cm
2.10.2. Diameter 8 cm

3. Functional properties
3.1. The functional properties of the vaulting board (hardness, damping, elasticity) shall not be adjustable (i.e. springs must be fixed so that they cannot be easily removed by hand).
3.2. The elasticity of the vaulting board must be most effective in the area between 75 cm and 95 cm, measured horizontally from the frontal angle.
3.3. The vaulting-board must dampen the counter pressure, i.e. reduce motion energy. Elasticity and absorbency must be evenly distributed, so that the effect of the vaulting board differs only slightly, regardless whether the force of the impact is at the middle axis, or away from it.
3.4. The upper surface of the vaulting board must offer slip resistance.
3.5. The vaulting board must not produce disturbing sounds during its use.
3.6. The board shall not slide at the time of impact of the athlete. This shall be achieved by anti-slip devices at the bottom side of the board or at the board underneath the vaulting board. The slip resistance shall be provided especially when the board bottoms out at the middle part.
3.7. The vaulting board and its base may not have any sharp corners, edges and no protruding parts. Mainly the upper and under edge of the upper part of the Vaulting board towards the apparatus side (Vaulting Table, Balance Beam of Uneven Bars) shall be cushioned and rounded.

4. Colour
4.1. The choice of colour is left to the discretion of the manufacturer.
4.2. With exception of the dot for “hard” vaulting boards optically disturbing patterns, stripes or insignia on the upper surface are not permitted.
4.3. The FIG may designate the colour for certain events.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Vaulting Board

Plan
profile
Schnitt

Marcage pour tremplin dur
mark for the hard board
Markierung für hartes Brett

vue de dessus
top view
Aufsicht

variants d'abaissement
lowering variant
Absenkungsvariante

cotes obligatoires;
dimensions: mandatory;
Maße bindend;

construction selon le gré;
design: at your discretion;
Konstruktion freigestellt;

dessin en exemple
drawing: typical example;
Zeichnung als Beispiel
Trampoline – Device for judging individual and synchronized competitions

Construction / Description of material, measurements

1. General requirements
   1.1. The device must be able to measure a sum of the flight times for the skills in individual competitions as well as deductions due to asynchronous landing in synchronized competitions.

2. Variants: Different measuring methods result in two variants of the TMD:
   2.1. **Variant A**: Measurements up to 10 cm below the unloaded trampoline bed (e.g. through photoelectric barriers along defined measurement lines).
   2.2. **Variant B**: Measurements relative to the unloaded surface of the trampoline bed. This variant can be used, for example, in combination with other measuring devices (HDMD - TRA 16).

3. General functions
   3.1. Mode for individual competitions: The device is installed at the trampoline which is used for the competition. It has to be administrated by a specialized judge. After a "Start" during the flight phase of the first element the device shall register all time intervals between take-offs and the landings of the gymnast (flight times) including the flight time of the first element. At the end of the routine the device has to calculate, to indicate and to memorize the flight times of the elements as well as their sum (up to 10 skills).
   3.2. Mode for synchronized competitions: The device is installed at the two trampolines which are used for the competition. It has to be administrated by a specialized judge who is responsible for the evaluation of the score of synchronization (S). After a "Start" during the flight phase of the first element the device shall register all time intervals between the landings of the gymnasts. After the end of the routine the device has to calculate, to indicate and to memorize the deductions for each skill and the total score for synchronization according to a conversion ratio between time intervals and deductions (TRA Code of Points).

4. Definitions
   4.1. **Valid for TMD Variant A**
      4.1.1. **Measurement Lines for Time of Flight and Synchronization Evaluation**: At least three parallel lines along the longitudinal side of the trampoline’s bed. The lines are arranged ≤ 100 mm below the underside of the unloaded bed installed at a trampoline which is ready for use. One line (center line) shall be exactly below the longitudinal middle axis of the jumping zone and at least two others are running in a distance of 540 (±5) mm to the center of the bed directly below the lateral boundaries of the jumping zone (see drawing).
      4.1.2. **Starting point of the flight phase**: The point in time of the release of the gymnast from all Measurement Lines by taking off from the trampoline’s bed. At that time a measurable signal for the TMD shall be provoked.
      4.1.3. **Ending point of the flight phase**: The point in time of the first contact of the gymnast with at least one of the Measurement Lines by impacting the trampoline’s bed. At that time a measurable signal for the TMD shall be provoked.
      4.1.4. **Time Difference in Landing**: Time interval at the landing after the same synchronous jump between the **Ending point of the flight phase** of the first athlete and the **Ending point of the flight phase** of the second athlete, expressed in seconds rounded down to the next lower multiple of 0.005 s (e.g.: All values less than 0.005 s are rounded to 0.000 s, all values equal or higher than 0.005 s and less than 0.01 s are rounded to 0.005 s).

   4.2. **Valid for TMD Variant B**
      4.2.1. **Measurement Plane for Time of Flight and Synchronization Evaluation**: The surface of the unloaded trampoline’s bed.
      4.2.2. **Starting point of the flight phase**: The point in time of the release of the gymnast from Measurement Plane by taking off to a flight phase.
4.2.3. **Ending point of the flight phase:** The point in time of the first contact of the gymnast with the Measurement Plane after a flight phase.

4.2.4. **Time Difference in Landing:** Time interval at the landing after the same synchronous jump between the **Ending point of the flight phase** of the first athlete and the **Ending point of the flight phase** of the second athlete, expressed in seconds rounded down to the next lower multiple of 0.005 s (e.g.: All values less than 0.005 s are rounded to 0.000 s, all values equal or higher than 0.005 s and less than 0.01 s are rounded to 0.005 s).

4.2.5. **Time of Flight:** Time interval during the flight phase of a jump between a **Starting point of the flight phase** and a succeeding **Ending point of the flight phase**, expressed in seconds rounded down to the next lower multiple of 0.005 s. (e.g.: All values less than 0.005 s are rounded to 0.000 s, all values equal or higher than 0.005 s and less than 0.01 s are rounded to 0.005 s).

4.3. **Valid for TMD variants A and B**

4.3.1. **Time of Flight:** Time interval during the flight phase of a jump between a **Starting point of the flight phase** and a succeeding **Ending point of the flight phase**, expressed in seconds rounded down to the next lower multiple of 0.005 s. (e.g.: All values less than 0.005 s are rounded to 0.000 s, all values equal or higher than 0.005 s and less than 0.01 s are rounded to 0.005 s).

4.3.2. **Total Time of Flight:** Sum of all measured Time of Flights during an exercise of an individual competition beginning with the first skill, expressed in seconds. This value in seconds is equivalent to the score for the total time of flight in points.

4.3.3. **Start:** The point in time fixed by a switch-key to be pressed by a specialized judge during the flight phase of the first element; from this time on the TMD records signals at landings of the athlete on the trampoline’s bed. For individual competitions the device has to remember the preceding **Starting point of the flight phase** to register the **Time of Flight** of the first element.

4.3.4. **Stop:** The point in time fixed by a switch-key to be pressed by a specialized judge, from this time on the TMD no longer takes any further measurements into account for determining the deductions.

4.3.5. **Deduction for unsynchronized Landing:** Deduction in points for the synchronization of each element according to a conversion from the Time Difference in Landing according to the TRA Code of Points.

Example 1: Table with examples to determine the Deduction for an unsynchronized Landing with a factor of 2.5, rounded down to 1/100 and a special treatment (*) (**) for more than 0.4 s (TRA Code if points 2017):

<table>
<thead>
<tr>
<th>Time difference in landing (s) – rounded down to next 5/1000s</th>
<th>Deduction (pts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0,010</td>
<td>0,02 pts</td>
</tr>
<tr>
<td>0,025</td>
<td>0,06 pts</td>
</tr>
<tr>
<td>0,075</td>
<td>0,18 pts</td>
</tr>
<tr>
<td>0,125</td>
<td>0,31 pts</td>
</tr>
<tr>
<td>0,175</td>
<td>0,43 pts</td>
</tr>
<tr>
<td>0,215</td>
<td>0,53 pts</td>
</tr>
<tr>
<td>0,355</td>
<td>0,88 pts</td>
</tr>
</tbody>
</table>

(*) if 0.4 <= x < 0.5 then x := 0.4 s and deduction := 1.00 pts

(**) if x >= 0.5 routine should be stopped

4.3.6. **Sum of Deduction for synchronized competitions:** The time differences in landing (rounded down to next 5/1000s) should be accumulated after each landing, multiplied by 2.5 and then rounded down to the next 1/100 pts to give a Sum of Deduction for all previous skills.

4.3.7. **Total Synchronization Score:** The Total Synchronization Score should be shown as maximum 10,0 pts minus the Sum of deductions in case of 10 skills (see example 2). Otherwise the maximum score equals the number of the counted skills (for example 5,0 pts for 5 skills). The device shall automatically detect how many skills were performed.
synchronously and stop judging if the time difference in landing is equal or exceeds 0.5 seconds.

Example 2: Calculation for the Sum of deduction and the Total Synchronization Score for a full exercise with 10 skills.

<table>
<thead>
<tr>
<th>Time differences in landing (s)</th>
<th>Accumulated time difference (s)</th>
<th>Calculated Sum of Deduction (pts)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(rounded down to next 5/1000 s)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st skill x:= 0.015</td>
<td>0.015</td>
<td>0.0375 → 0.03 pts</td>
</tr>
<tr>
<td>2nd skill x:= 0.035</td>
<td>0.050</td>
<td>0.1250 → 0.12 pts</td>
</tr>
<tr>
<td>3rd skill x:= 0.120</td>
<td>0.170</td>
<td>0.4250 → 0.42 pts</td>
</tr>
<tr>
<td>4th skill x:= 0.295</td>
<td>0.465</td>
<td>1.1625 → 1.16 pts</td>
</tr>
<tr>
<td>5th skill x:= 0.430</td>
<td>0.865</td>
<td>2.1625 → 2.16 pts</td>
</tr>
<tr>
<td>6th skill x:= 0.030</td>
<td>0.895</td>
<td>2.2375 → 2.23 pts</td>
</tr>
<tr>
<td>7th skill x:= 0.005</td>
<td>0.900</td>
<td>2.2500 → 2.25 pts</td>
</tr>
<tr>
<td>8th skill x:= 0.115</td>
<td>1.015</td>
<td>2.5375 → 2.53 pts</td>
</tr>
<tr>
<td>9th skill x:= 0.005</td>
<td>1.020</td>
<td>2.5500 → 2.55 pts</td>
</tr>
<tr>
<td>10th skill x:= 0.010</td>
<td>1.030</td>
<td>2.5750 → 2.57 pts</td>
</tr>
<tr>
<td>Total Synchronization Score :=</td>
<td></td>
<td>7.43 pts</td>
</tr>
</tbody>
</table>

5. Specific requirements
5.1. The device shall not interfere with the performance of the athletes nor shall it provoke any restriction of the functional properties of the trampoline.
5.2. The detectors for the Starting and Ending Points of the flight phases shall be installable at any standardized trampoline. The fixation shall be below the apparatus (trampoline with padding and safety platform) with no protruding parts. If there are cable connections, they must be long enough to reach the displacement specifications given for the “Arena for Trampoline Competitions” (see: Part II 4. Competition area; TRA). All other components of the device shall be out of the area of the safety mats on the ground.
5.3. If emitters of sound, light or radio waves are used, they shall not harm participants, judges, spectators or other staff.
5.4. If the device needs external power, it must be provided with backup power, providing a battery life for at least 5 minutes after disconnecting the external power source.
5.5. The system must provide time measurements with an error lower than ± 0.005 s.
5.6. The TMD shall come with an English written documentation containing a user’s guide and all necessary technical descriptions.

6. Technical features
6.1. The control device or the control of the computer-program shall contain a set of switches, indicators and components with the following features:
   6.1.1.SELECT MODE – individual or synchronized competition
   6.1.2.RESET – Preparation for a new measurement
   6.1.3.START– start the measurement of an exercise, indicated by a sound
   6.1.4.STOP – stop the measurement of an exercise
   6.1.5.VIEW – MODE – with the following possibilities:
      6.1.5.1. Synchronized competition mode: Selection for each skill (from 1 to 10) with the calculated deductions for unsynchronized landing as well as the Total Synchronization Score for the whole exercise.
      6.1.5.2. Individual competition mode: Selection for each skill (from 1 to 10) with the registered Times of Flight as well as the Total Time of Flight for the whole exercise.
   6.1.6.Possibilities for a manual change of the Preliminary Synchronization Score with an increment of 0.2 points.
   6.1.7.Components to ensure proper function of the sensors.
   6.1.8.Components to indicate proper function of the power supply.
   6.1.9.All data collected by the device shall be transferable to a personal computer using a standard method of data transmission (USB, Firewire etc.).
   6.1.10. Software to memorize and print all data on a personal computer with the following details:
6.1.10.1. Time Differences in Landing and corresponding Deductions for unsynchronized Landing for all skills (from 1 to 10) as well as the Total Synchronization Score for the whole exercise for synchronized competitions.

6.1.10.2. Times of Flight for all skills (from 1 to 10) as well as the Total Time of Flight for the whole exercise for individual competitions.

7. Procedures for approval

7.1. The approval of a TMD shall include the following steps:

7.1.1. Confirmation by a member federation of the FIG (according to FIG Apparatus Norms Part III, clause 4).

7.1.2. Valid for TMD Variant A

7.1.2.1. Presentation at a testing institute (forwarding a full technical documentation written in English and the complete equipment, if necessary, with a special adapter according to: FIG Apparatus Norms Part IV TRA15 - TMD)

7.1.3. Valid for TMD Variant B

7.1.3.1. Documented report by a TC member ordered by the FIG-TC-TRA-President about the functional status during a FIG competition. The testing procedure should consist of a video recording of at least 10 routines each of an individual and a synchronized FIG sanctioned Trampoline competition (selected by the FIG Secretary General). The video recording to evaluate Time of Flight and Synchro Deductions should be done with at least 400 fps and resolution at least 720p. This confirmation must include in particular the check of all calculation steps required by the TRA Code of Points. The maximum deviation of the results of the device and the video analysis may not exceed 0.2 points per exercise.

7.2. With successful fulfillment of all procedures the certification shall be given by the General Secretary.
Trampoline – Device for judging individual and synchronized competitions

Construction / Description of material

1. General requirements
   1.1. The device must be able to determine the place of landing of the gymnast(s) to the trampoline’s bed. The device has to evaluate the place of landing in individual and synchronized competitions in scores depending on the zone of landing at the trampoline’s bed according to the TRA Code of Points. The proper functioning of the device must be ensured for all certified trampolines at the time of the test of the device (especially in the case of constructional differences, e.g. in the base frames).

2. General functions
   2.1. Mode for individual competitions:
      2.1.1. The device has to be administrated by a specialized judge.
      2.1.2. After a “Start” during the flight phase of the first element the device shall register all horizontal displacements of the landings at bed contact for every skill and the complete routine (from 1st to 10th skill).
      2.1.3. Subsequently the device has to determine deductions according to the TRA Code of Points for each skill and for the complete routine.
   2.2. Mode for synchronized competitions:
      2.2.1. The device has to be administrated by a specialized judge who is responsible for the evaluation of the score of synchronization (S).
      2.2.2. After a “Start” during the flight phase of the first element, the device shall register each trampoline equivalent to the recording during an individual competition.
      2.2.3. After the end of the routine, the device has to calculate, to indicate and to memorize the deductions for each skill and the total score separately for each trampoline and the synchronized routine according to the specifications of the TRA Code of Points.

3. Definitions
   3.1. Horizontal Displacement at bed contact: Depending on the measurement technology used there are two variants:
      3.1.1. Area measurement: Set of all contact points between athlete’s body and the trampoline’s bed determined 20 ms after first contact. The contact points must be given in a resolution of 1 cm and represented in coordinates.
      3.1.2. Point measurement: Horizontal coordinates of the Center of Pressure at the bed contact during landing after a skill. The center of pressure is defined as intersection of a vector representing the direction of the movement of the athlete’s center of mass and the bed of the trampoline. The values shall be expressed as xy – coordinates in cm for a horizontal Cartesian coordinate system with the center of the bed as origin.
   3.2. Start: The point in time fixed by a switch-key (Judge) which has to be pressed during the flight phase of the first element; from this point in time forward the HDMD records signals at landings of the athlete on the trampoline’s bed.
   3.3. Stop: The point in time fixed by a switch-key (Judge), from this point in time forward the HDMD records no more signals at landings of the athlete on the trampoline’s bed.
   3.4. Horizontal Displacement Score: A value determined according to the TRA Code of Points.

4. Specific Requirements
   4.1. The device shall not interfere with the performance of the athletes nor shall it provoke any restriction of the functional properties of the trampoline.
   4.2. The detectors for measurements shall be installable at any certified trampolines at the time of the test of the device. If necessary, for competitions, appropriate adapters (or other technical solutions) must be available. The construction of the device shall not interfere with the specifications for trampolines in Part 2 (i.e. mats, padding, safety platforms etc.). If the height of the trampoline changes due to the use of the device, a tolerance of +4cm applies. If there are cable connections, they must be long enough to reach the distance specifications given for the “Arena for Trampoline Competitions” (see Part II; TRA; P 115). All other components of the device shall be out of the area of the safety mats on the ground.
4.3. The functionality of the device has to be ensured at any time of the competition. Especially vibrations or sliding of the trampoline’s feet shall not lead to dysfunctions.

4.4. If emitters of radio waves are used, they shall not have a capacity of more than 0,01 watts in a frequency range of 27 megahertz and above.

4.5. If the device needs external power, it must be provided with backup power, providing a battery life for at least 5 minutes after disconnecting the external power source.

4.6. When tested according to PART 4 TRA16 the system must provide horizontal displacement measurements with an error lower than ± 10 cm.

4.7. The HDMD shall come with an English written documentation containing a user’s guide and all necessary technical descriptions (including detailed calibration and installation procedures).

4.8. The device shall be delivered with a dedicated procedure to ensure the proper functionality after installation and calibration of the system. This procedure has to be done and documented by a nominated FIG representative (specialized judge, TRA TC member, FIG Apparatus Commissioner etc.) prior to the competition.

4.9. The supplier of a device is free to choose the method of the measurement of the trampoline competitions parameters as long as all specifications are fulfilled.

5. Technical features

5.1. The control device shall contain a set of buttons, indicators and components with the following features:

5.1.1. SELECT MODE – individual or synchronized competition / selection of trampoline (if there is no automatic detection available)

5.1.2. START– start the measurement of an exercise, indicated by a sound

5.1.3. STOP – stop the measurement of an exercise

5.1.4. VIEW – MODE – with the following possibilities:

5.1.4.1. Individual competition mode: Selection for each skill (from 1 to 10) with the registered horizontal displacements, deductions and the total score for the whole exercise.

5.1.4.2. Synchronized competition mode: Selection for each skill (from 1 to 10) with the registered horizontal displacements, deductions for both trampolines and the total score for both exercises (according to the TRA Code of Points)

5.2. Possibility to adjust the size of the zones to the real dimensions (measured on site every day before the competition).

5.3. A graphical presentation of the trampoline bed(s) and the Horizontal Displacement at the bed contacts of landing for each skill.

5.4. Components to ensure proper function of the sensors.

5.5. Components to indicate proper function of the power supply.

5.6. Connection devices and software to transfer all data to a personal computer. The data shall be available in a standard data format (i.e. csv, pdf, etc.).

5.7. Software to memorize and print all data on a personal computer for each skill and the complete exercises.

5.8. If specific reference points or lines at the sensors are essential for the calibration process, they shall be indicated unmistakably at the devices.

6. Procedures for approval

6.1. The approval of a HDMD shall meet the following requirements:

6.2. Confirmation by a member federation of the FIG (according to FIG Apparatus Norms Part III, clause 4).

6.3. Presentation at a testing institute (forwarding a full technical documentation written in English and the complete equipment, if necessary, with a special adapter according to: FIG Apparatus Part IV, TRA16 - HDMD

6.4. Confirmation by a TC member ordered by FIG-TC-TRA-President about the functional status during a FIG competition. This confirmation must include in particular the check of all calculation steps required by the TRA Code of Points.

6.5. With successful fulfilment of all procedures the certification shall be given by the General Secretary.
VTB — OFFICIAL FIG PARTNER
2.5 ACRO Acrobatic Gymnastics
Floor

Acrobatic Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The Performance Area shall have a square format. The surface must be horizontal, even and without gaps. All plates of the under construction within the Performance Area shall have the same arrangement of elastic elements.
   1.2. All elements of the floor have to be connected firmly to prevent slipping.
   1.3. Border: Horizontal and even, at the same height as the Performance area
   1.4. Border’s variant: Width 50 cm, horizontal and even, at the same height as the Performance area, additional 50 cm inclination border, slope may not exceed 25 %.
   1.5. Safety zone: The safety zone shall be kept totally free as a surrounding zone around the performance area and the border. It shall be horizontal, even and without gaps.

2. Measurements
   2.1. Performance area 1200 cm x 1200 cm Tolerance +/- 3 cm
   2.2. Diagonals of the performance area: 1697 cm +/- 5cm
   2.3. Border 100 cm, min.
   2.4. Border as a variant
      2.4.1. Horizontal Area, Width 50 cm, min.
      2.4.2. Slope max. 25 %, Width 50 cm, min.
      2.4.3. Height of outer border at the very end 3.5 cm, max.
   2.5. When there is a delimitation strip between the Performance area and the border:
      2.5.1. Delimitation strip width 5 cm, Tolerance +/- 0.5 cm
   2.6. The delimitation strip is part of the Performance area.

3. Functional Properties of the performance area and border
   3.1. Equal elasticity on the surface as well as dampening.
   3.2. When in use it should not have any hindering motion energy
   3.3. Elasticity and dampening must be balanced in such a way that they guarantee the gymnast stability and freedom of movement. It must not restrict turns and slide movements.
   3.4. The surface cover of the Performance area must provide a balance between anti-skid and slippage. It must not cause skin burns.
   3.5. The floor must not produce disturbing sound during the execution of an exercise. It must assure a low noise level.

4. Of plain colour which choice is left to the manufacturer’s discretion. Dark colours are not allowed. For certain events the FIG may stipulate the colours. The delimitation shall have a clear contrast to the performance area.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Landing Mat

Acrobatic Gymnastics

Construction / Description of material, measurements

1. Use
   1.1. For landing a mat shall be available. The use is not compulsory.

2. Form and functional properties
   2.1. The functional properties of the landing mat must be identical to those of the landing mats MAG 11 and WAG 11.

3. Measurements
   3.1. The minimum size of the landing mat is 200 cm x 150 cm x 20 cm
2.6 AER Aerobic Gymnastics
Performance area

Aerobics Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The Performance Area shall have a square format. The surface must be horizontal, even and without gaps. Under load there shall not occur steps at the border of the plates.
   1.2. Border:
   1.3. Horizontal and even, at the same height as the performance area
   1.4. Safety zone:
       1.4.1. The safety zone shall be kept totally free as a surrounding zone around the performance area and the border. It shall be horizontal, even and without gaps.
   1.5. Delimitation strip:
       1.5.1. The competition area shall be surrounded by a black delimitation strip.
       1.5.2. The delimitation strip is part of the performance area.

2. Measurements
   2.1. Performance area: 1000 cm x 1000 cm
   2.2. Diagonals of the performance area: 1414 cm, Tolerance +/- 5 cm
   2.3. Width of the black delimitation strip 5 cm, Tolerance +/- 0.5 cm
   2.4. Border 100 cm
   2.5. Safety border 100 cm

3. Material
   3.1. Parquet flooring – laminate or synthetics

4. Functional properties
   4.1. Performance area and border:
       4.1.1. Equal elasticity and dampening.
       4.1.2. When in use no unrequested counter movements shall occur.
       4.1.3. Elasticity and dampening must be balanced in such a way that they guarantee the gymnast stability and freedom of movement. It must not restrict turns and slide movements.
       4.1.4. The surface cover of the Performance area must provide a balance between anti-skid and slippage. It must not cause skin burns.
       4.1.5. The floor must not produce disturbing sound during the execution of an exercise. It must assure a low noise level.

5. Colour and gloss
   5.1. Of plain colour, not shiny. The choice is left to the manufacturer’s discretion. Dark colours are not allowed.
   5.2. Gloss – measurements according to International Standards (ISO 2813; ASTM D 523; DIN 67530) with a standardized reflectometer at an angle of illumination of 85° shall show gloss values of R’85 ≤ 30 GU and may also not be shiny under competition conditions. (For detailed description of the reflectometer procedure see: Part IV AER1)
   5.3. The competition area shall be surrounded by a black delimitation strip.

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
performance area

confer le texte / see text / siehe Text:

marquage, line, Markierung
surface de compétition, arena, Wettkampfsoche
cadre, edge, Umrundung
zone de sécurité, safety zone, Sicherheitszone

variantes, profile - variants, Schnitt - Varianten A, B, C

FIG Apparatus Norms Parts I - III

2019
Aerobic Step

Aerobics Gymnastics

Construction / Description of material, measurements

1. Form
   1.1. The surface of the Step must be horizontal and not slippery. It can be covered by an anti-slip layer. To avoid injuries the Step shall not exhibit any sharp corners or edges that could be reached during regular use in a competition.

2. Measurements
   2.1. Height of the Step: 150 mm +/- 10 mm
   2.2. Length of the horizontal upper part of the surface: 885 mm +/- 15 mm
   2.3. Width of the horizontal upper part of the surface: 275 mm +/- 10 mm
   2.4. Length of the Step at the base: 970 mm +/- 10 mm
   2.5. Width of the Step at the base: 370 mm +/- 10 mm
   2.6. Mass of the Step: \( \geq 5.0 \text{ kg} \)

3. Material
   3.1. Body of the Step: Plastics or other synthetic material
   3.2. Anti-slip covering: Plastics or other synthetic material
   3.3. The body and the anti-slip covering do not have to be of the same material.

4. Functional properties
   4.1. The surface of the Step must provide a sufficient slip resistance when it is used under competition conditions (with sneakers).
   4.2. The contact area between Step and floor must provide a sufficient slip resistance.
   4.3. The Step must not produce disturbing sound during the execution of an exercise. It must assure a low noise level.
   4.4. The support must not be separable from the body of step.
   4.5. The contact area between the Step and the floor must be such, that the Aerobic Floor is not damaged with scratches

Norms / Functional properties: Regarding tests carried out by FIG Tests Institutes – please see chapter IV
Aerobic Step

Dimensions:
- Width: 885 ± 10 mm
- Length: 970 ± 10 mm
- Height: 154 ± 2 mm
- Depth: 273 ± 10 mm
- 370 ± 10 mm
3. Surfaces of apparatus, safety zones, total surfaces
<table>
<thead>
<tr>
<th>Discipline</th>
<th>Apparatus</th>
<th>Area (meters)</th>
<th>Height of hall (prescription) if so, from Podium (min. meters)</th>
<th>Height of hall International Arena (recommended) if so from Podium (min. Meters)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAG</td>
<td>MAG 1 Floor</td>
<td>18.00 x 18.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Men's Artistic Gymnastics</td>
<td></td>
<td></td>
<td>7.00</td>
<td>8.00 – 10.00</td>
</tr>
<tr>
<td></td>
<td>MAG 2 Pommel Horse</td>
<td>4.00 x 4.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAG 3 Rings</td>
<td>6.00 x 6.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAG 4 Vaulting Table</td>
<td>5.00 x 35.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAG 5 Parallel Bars</td>
<td>6.00 x 12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAG 6 Horizontal bar</td>
<td>6.00 x 12.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WAG</td>
<td>WAG 1 Vaulting Table</td>
<td>5.00 x 35.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Women's Artistic Gymnastics</td>
<td></td>
<td></td>
<td>6.00</td>
<td>8.00 – 10.00</td>
</tr>
<tr>
<td></td>
<td>WAG 2 Uneven Bars</td>
<td>6.00 x 14.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WAG 3 Balance Beam</td>
<td>6.00 x 18.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>WAG 4 Floor</td>
<td>18.00 x 18.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RG</td>
<td>RG 1 Performance area</td>
<td>18.00 x 18.00</td>
<td>8.00</td>
<td>10.00 – 12.00</td>
</tr>
<tr>
<td>Rhythmic Gymnastics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRA</td>
<td>TRA 1 Trampoline (synch.)</td>
<td>15.00 x 15.00</td>
<td>8.00</td>
<td>10.00 – 12.00</td>
</tr>
<tr>
<td>Trampoline Gymnastics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TRA 2 Double Mini Trampoline</td>
<td>5.00 x 35.00</td>
<td>6.00</td>
<td>8.00 – 10.00</td>
</tr>
<tr>
<td></td>
<td>TRA 3 Tumbling Track</td>
<td>5.00 x 45.00</td>
<td>5.00</td>
<td></td>
</tr>
<tr>
<td>ACRO</td>
<td>ACRO 1 Performance area</td>
<td>18.00 x 18.00</td>
<td>7.00</td>
<td>8.00 – 10.00</td>
</tr>
<tr>
<td>Acrobatic Gymnastics</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AER</td>
<td>AER 1 Performance area</td>
<td>18.00 x 18.00</td>
<td>6.00</td>
<td>8.00 – 10.00</td>
</tr>
</tbody>
</table>
4. Competition area

Recommended Standards. For FIG Events the Placement of the Apparatuses and Podiums has to be approved by the FIG.
Requirements for Podiums and Anchors at MAG and WAG Competitions

Construction / Description of material, measurements

1. Measurements
   1.1. Size of the podiums: See recommended standards on the proceeding pages.
   1.2. Height: 80 to 100 cm

2. Requirements
   2.1. The podiums must be stable enough to withstand the forces which are transmitted by the installed equipment during use.
   2.2. During competition, no disturbing vibrations and movements shall occur in the podium.
   2.3. Special devices (i.e. additional, heavy supporting plates with sufficient area) should be used if the ground below the podiums is not hard enough.
   2.4. Additional columns shall be placed directly below the podium zones with high loads (i.e. below all contact parts the stands of the gymnastics apparatuses at least according to the table below).

<table>
<thead>
<tr>
<th></th>
<th>MAG</th>
<th>WAG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td>-</td>
<td>Floor</td>
</tr>
<tr>
<td>Pommel Horse</td>
<td>4</td>
<td>Balance Beam</td>
</tr>
<tr>
<td>Rings</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Vault</td>
<td>6 - 8</td>
<td>Vault</td>
</tr>
<tr>
<td>Parallel Bars</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>High Bar</td>
<td>2</td>
<td>Uneven Bars</td>
</tr>
<tr>
<td>TRA</td>
<td></td>
<td>4 (per Trampoline)</td>
</tr>
</tbody>
</table>

2.5. Floor anchors and equipment attachments\(^1\) on the ground shall be controlled by the local organizer of the competition before establishing the gymnastic equipment and podium. All attachments shall withstand a static force of 8000 N (+20N) in the pulling direction\(^2\). This requirement must be fulfilled for both competition site and training sites.

2.6. The stairs to the podium shall not have rails. This regulation can be overruled by the FIG if necessary, for example if the railing of the stairs is part of the course at Parkour.

---

\(^1\)Equipment attachments are all devices which do not belong to the homologated standard parts of the apparatus (i.e. Horizontal bar, ring frame etc.)

\(^2\)“pulling direction” means: The direction of the cable at a correctly mounted equipment. After the application of a static force as described for 1 min (+10s) in pulling direction, no permanent deformation shall be observed at the anchors and/or the equipment attachments
Arena – Trampoline, Double Minitrampoline, Tumbling

A trampoline
trampoline
Trampolin

B tumbling
tumbling
Tumbling

C double mini-trampoline
mini-double trampoline
Doppelminitramp
TRAMPOLINE DIVERSITY. SINCE 1960.

✓ Competition & Show
✓ Trampoline Arenas
✓ School
✓ Playground
✓ Leisure
✓ Freestyle
✓ Therapy
... & many more!

UPCOMING EVENTS:

2019
2019 FIG TRAMPOLINE WORLD CUP
Khobarovsk, Russia
2019 FIG TRAMPOLINE WORLD CHAMPIONSHIPS
Tokyo, Japan
2020 FIG TRAMPOLINE WORLD CUP
Baku, Azerbaijan
2020 OLYMPIC GAMES
Tokyo, Japan

News!

2019 Highlight:

EUROTRAMP-PROJECTS
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www.eurotramp-projects.com

SCAN THE QR CODE AND SIGN IN FOR THE EUROTRAMP NEWSLETTER!

www.eurotramp.com
5. Apparatus Control Forms
Prior to every FIG Event in MAG, WAG, TRA and RG an apparatus control shall be scheduled before the first contact of athletes with the equipment. The completed forms have to be reported to the TC President or if he is not at the competitions site to the FIG Event Delegate and to the President of the FIG Apparatus Commission. According to the FIG event, different forms shall be used:

**Form A: (FIG TC Delegate)**
Competitions: World Cups, Continental Games (without FIG Apparatus Manager)

Main aspects for the apparatus control with form A:

- To be performed 1-2 h prior to the first contact of the athletes with the equipment.
- To be done for training hall (every set), warming up hall and competition hall.
- Control of specifications of the FIG Apparatus Manual.
- Judgment of non-described safety relevant aspects.
- Control of all adjustable heights, lengths etc. at the apparatuses.
- Control of all security relevant parts (fixings, stability and mats displacement).
- If necessary, monitoring of apparatus relevant ad hoc decisions of the TP / TC or other FIG Authorities.

**Form(s) B: (FIG Apparatus Manager)**
Competitions: World Championships and Olympic Games (with FIG Apparatus Manager)

Main aspects for the apparatus control with forms B:

**(IC) Intensive Control (FIG Apparatus manager):**
- To be done for training hall (every set), warming up hall and competition hall
- To be performed 1-2 h prior to the first contact of the athletes with the equipment
- Control of accordance of equipment with the tested Specimen
- Control of all specifications of the FIG Apparatus Manual
- Judgment of non-described safety relevant aspects
- Report of the results to the Technical President
- If necessary, monitoring of apparatus relevant ad hoc decisions of the TP / TC or other FIG Authorities

**(FC) Final Control (Technical Committee Member(s), FIG Apparatus Manager and President of the FIG Apparatus Commission):**
- To be performed 1/2h prior to the competition or the podium training.
- Control of all adjustable heights, lengths etc. at the apparatuses.
- Control of all security relevant parts (fixings, stability and mats displacement).

**(LC) Daily Light Control (FIG Apparatus Manager):**
- To be performed every day in all training and warming up halls.
- Control of accordance of the equipment with the time of the extensive control.
- Control of all adjustable heights, lengths etc. at the apparatuses.
- Control of all security relevant parts (fixings, stability and mats displacement).

*Remark: Forms B are published in FIG Apparatus Norms Part IV.*
# MAG - Apparatus Control Form A

*Forms B: see FIG Apparatus Norms Part IV*

## APPARATUS CONTROL A - MAG GYMNASTICS

<table>
<thead>
<tr>
<th>Apparatus</th>
<th>Competition:</th>
<th>Name of the Competition</th>
<th>Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface area</td>
<td>12x12m including delimitation line</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elasticity of floor</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chalk box for feet</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pommel Horse</td>
<td>Stipulation</td>
<td>Result - Action</td>
<td></td>
</tr>
<tr>
<td>Height of horse</td>
<td>115 cm +/- 1 cm, measured from floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levers and knob covered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of landing mats</td>
<td>10 cm +/- 1 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension of mat surface</td>
<td>min. 400 cm x 400 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Still Rings</td>
<td>Stipulation</td>
<td>Result - Action</td>
<td></td>
</tr>
<tr>
<td>Height of rings</td>
<td>280 cm +/- 1 cm, measured from floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension of mat surface</td>
<td>min. 200 cm x 500 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Core and surface of mat</td>
<td>visual and tactile control of the landing area under the rings. Damages?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vaulting Table</td>
<td>Stipulation</td>
<td>Result - Action</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>135 cm +/- 1 cm measured 68cm from landing end</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levers and knob covered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection of anchor and floor support</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection for space between landing mat and vaulting table</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety collar: different color from carpet of spring board</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enhanced color of round-off hand placement mat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parallel Bars</td>
<td>Stipulation</td>
<td>Result - Action</td>
<td></td>
</tr>
<tr>
<td>Height of bars</td>
<td>200 cm +/- 1 cm from floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance between bars</td>
<td>62 cm to 52 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mat between bases</td>
<td>Total mat surface horizontal, even, without gaps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension of mat surface</td>
<td>min. 450 cm x 1100 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horizontal Bar</td>
<td>Stipulation</td>
<td>Result - Action</td>
<td></td>
</tr>
<tr>
<td>Height of bars</td>
<td>280 cm +/- 1 cm, measured from floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimension of mat surface</td>
<td>min. 300 cm x 1200 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Springboards</td>
<td>Stipulation</td>
<td>Result - Action</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>20 cm +/- 1 cm, Cushion cover 2 cm +/- 0.05 = Total 22 cm +/- 1.5 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 hard and 1 soft board at the vault</td>
<td>springs fixed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 soft board at the parallel bars</td>
<td>springs fixed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mats</td>
<td>Stipulation</td>
<td>Result - Action</td>
<td></td>
</tr>
<tr>
<td>Height of all landing mats</td>
<td>20 cm +/- 1 cm (except pommel horse -10 cm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of all extra soft landing mats</td>
<td>10 cm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mats surface</td>
<td>horizontal, even, without gaps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extra soft landing mat at the vault</td>
<td>600 cm * 200 cm ; with lines</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 extra soft landing mats at high bar</td>
<td>400 cm * 200 cm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

☐ Podium training  ☐ Qualification round  ☐ Final  ☐ Team Final

Signature

Time & date

FIG Apparatus Norms Parts I - III

2019
WAG - Apparatus Control Form A

(Forms B: see FIG Apparatus Norms Part IV)

**APPARATUS CONTROL A - WAG GYMNASTICS**

Apparatus: WAG  
Competition: Name of the Competition  
Date: 01.01.2014

Note: Measurements taken from the floor to the top of the apparatus

<table>
<thead>
<tr>
<th>Apparatus</th>
<th>Stipulation</th>
<th>Result - Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vaulting Table</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>125 cm +/- 1 cm measured 68cm from landing end</td>
<td></td>
</tr>
<tr>
<td>Levers and knob covered</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection of anchor and floor supports under apparatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection for space between landing mat and vaulting table</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety collar: different color from carpet of spring board</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enhanced color of round-off hand placement mat</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Uneven Parallel Bars</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of low bar</td>
<td>166 cm +/- 1 cm from under rail</td>
<td></td>
</tr>
<tr>
<td>Height of high bar</td>
<td>246 cm +/- 1 cm from under rail</td>
<td></td>
</tr>
<tr>
<td>Distance between bars</td>
<td>180 cm diagonal (maximum)</td>
<td></td>
</tr>
<tr>
<td>Protection between bases and 2 m matting under UB</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Balance Beam</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of beam</td>
<td>125 cm +/- 1 cm</td>
<td></td>
</tr>
<tr>
<td>Length of beam</td>
<td>500 cm</td>
<td></td>
</tr>
<tr>
<td>Width of beam</td>
<td>10 cm</td>
<td></td>
</tr>
<tr>
<td>Permanent coverings on ends</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cushioning of the stands</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Floor</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface area</td>
<td>12x12m including delimitation line</td>
<td></td>
</tr>
<tr>
<td>Elasticity of floor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chalk box for feet</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Springboards</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>20 cm +/- 1 cm, Cushion cover 2 cm +/- 0,05 (= Total 22 cm +/- 1,5 cm)</td>
<td></td>
</tr>
<tr>
<td>1 hard and 1 soft board at the vault</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 soft board at the uneven parallel bars</td>
<td>springs fixed</td>
<td></td>
</tr>
<tr>
<td>1 soft board at the beam</td>
<td>springs fixed</td>
<td></td>
</tr>
<tr>
<td><strong>Mats</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Height of all landing mats</td>
<td>20 cm +/- 1 cm</td>
<td></td>
</tr>
<tr>
<td>Height of all extra soft landing mats</td>
<td>10 cm</td>
<td></td>
</tr>
<tr>
<td>Mats surface</td>
<td>horizontal, even, without gaps</td>
<td></td>
</tr>
<tr>
<td>Extra soft landing mat at the vault</td>
<td>600 cm * 200 cm; with lines</td>
<td></td>
</tr>
<tr>
<td>Extra soft landing mat at the uneven parallel bars</td>
<td>400 cm * 200 cm</td>
<td></td>
</tr>
<tr>
<td>Extra soft landing mat at the beam</td>
<td>400 cm * 200 cm</td>
<td></td>
</tr>
</tbody>
</table>

Podium training ☐  Qualification round ☐  Final ☐  Team Final ☐

Signature: __________________________  Time & date: __________________________

FIG Apparatus Norms Parts I - III  2019
### APPARATUS CONTROL A - TRA GYMNASTICS

**Competition:**

**Name of the Competition**

- **Apparatus:** Trampoline

#### Trampoline

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Stipulation</th>
<th>Result - Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height of the bed</td>
<td>115,5 cm +/- 0,5 cm (from the floor)</td>
<td></td>
</tr>
<tr>
<td>Length of the bed</td>
<td>428 cm +/- 6 cm (under tension)</td>
<td></td>
</tr>
<tr>
<td>Width of the bed</td>
<td>214 cm +/- 5 cm (under tension)</td>
<td></td>
</tr>
<tr>
<td>Jumping zone</td>
<td>215 ( +/- 4) x 108 ( +/-4) cm; cross: 70 ( +/- 3) cm</td>
<td></td>
</tr>
<tr>
<td>Bed construction</td>
<td>Web: 0,55 cm +/- 0,15 cm; max distance 1,6 cm Strings: 0,3 cm +/- 0,1 cm; max distance 1 cm</td>
<td></td>
</tr>
<tr>
<td>Safety padding</td>
<td>Shock absorbing padding; thickness: 3,0-5,0 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The padding may not touch any part of the bed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The padding may extend over the bed by up to 3 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The bottom of the padding not to protrude above the level of the bed by more than 6 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Padding firmly fixed to the frame without hindering the normal action of the bed and springs</td>
<td></td>
</tr>
<tr>
<td>Level</td>
<td>The frame and bed must be level</td>
<td></td>
</tr>
<tr>
<td>Springs</td>
<td>Safely attached</td>
<td></td>
</tr>
<tr>
<td>Area beneath</td>
<td>Construction: the competitor will not touch any part of the frame beneath the bed</td>
<td></td>
</tr>
</tbody>
</table>

#### Safety platform mats

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Stipulation</th>
<th>Result - Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>300 cm +/- 2,5 cm</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>240 cm +/- 2,5 cm (including wedge, 40 cm)</td>
<td></td>
</tr>
<tr>
<td>Thickness at bedside</td>
<td>7,5 cm +/- 0,5 cm</td>
<td></td>
</tr>
<tr>
<td>Thickness at the end</td>
<td>20 cm +/- 2,0 cm</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Safety mats (on the floor)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Stipulation</th>
<th>Result - Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>200 cm +/- 1 cm</td>
<td></td>
</tr>
<tr>
<td>Height</td>
<td>Type a): 20 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Type b): min. 20 cm</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>All mats must be of the same height and type</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Spotter mats

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Stipulation</th>
<th>Result - Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Must be covered with a material which will slide easily</td>
<td></td>
</tr>
<tr>
<td>Handles</td>
<td>Must be provided with at least 2 handles or one long handle on the two long sides of the mat</td>
<td></td>
</tr>
<tr>
<td>Length</td>
<td>200 cm - 50 cm</td>
<td></td>
</tr>
<tr>
<td>Width</td>
<td>150 cm - 50 cm</td>
<td></td>
</tr>
<tr>
<td>Thickness</td>
<td>15 cm - 5 cm</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Podium training**
- **Qualification round**
- **Team Final**

**Signature**

**Time & date**

---

FIG Apparatus Norms Parts I - III

2019
## APPARATUS CONTROL A - RG GYMNASTICS

**Competition:** Name of the Competition  
**Date:**

<table>
<thead>
<tr>
<th>RG1 Floor</th>
<th>Stipulation</th>
<th>Result - Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface area</td>
<td>width A (1300 ± 3 cm)</td>
<td></td>
</tr>
<tr>
<td>(delimiter lines belong to the competition area)</td>
<td>width B (1300 ± 3 cm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>diagonal A (1838 ± 5 cm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>diagonal B (1838 ± 5 cm)</td>
<td></td>
</tr>
<tr>
<td>horizontal, even, without gaps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seams’ direction</td>
<td>Towards Judges (Training: Towards Coaches)</td>
<td></td>
</tr>
<tr>
<td>Border</td>
<td>horizontal (50cm); with slope (25-25cm)</td>
<td></td>
</tr>
<tr>
<td>Safety zone</td>
<td>(200 cm)</td>
<td></td>
</tr>
<tr>
<td>Delimitation strip</td>
<td>contrast, width (5 ± 0.5 cm)</td>
<td></td>
</tr>
<tr>
<td>Minimum height of the hall</td>
<td>1000 - 1200 cm min</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RG10 Measurement Table</th>
<th>Stipulation</th>
<th>Result - Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>suitable for measurement of diameter</td>
<td>800 - 900 mm</td>
<td></td>
</tr>
<tr>
<td>hoops</td>
<td>measurement of whole circle?</td>
<td></td>
</tr>
<tr>
<td>balls</td>
<td>180 - 200 mm</td>
<td></td>
</tr>
<tr>
<td>end of clubs</td>
<td>max. 30mm</td>
<td></td>
</tr>
<tr>
<td>cane of ribbons</td>
<td>max. 10mm</td>
<td></td>
</tr>
<tr>
<td>suitable for measurement of lengths:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>clubs</td>
<td>400 - 500 mm</td>
<td></td>
</tr>
<tr>
<td>ribbons</td>
<td>5000mm Juniors (6000mm min. Seniors)</td>
<td></td>
</tr>
<tr>
<td>doubled part of the ribbon</td>
<td>1000mm +/- 5 mm</td>
<td></td>
</tr>
<tr>
<td>cane of ribbons</td>
<td>500 - 600 mm</td>
<td></td>
</tr>
<tr>
<td>optional handle part of cane of ribbons</td>
<td>max. 100mm</td>
<td></td>
</tr>
<tr>
<td>fixture of ribbons</td>
<td>70mm max.</td>
<td></td>
</tr>
<tr>
<td>width of ribbons</td>
<td>40 - 60 mm</td>
<td></td>
</tr>
<tr>
<td>suitable balance:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>precision</td>
<td>+/- 1g</td>
<td></td>
</tr>
<tr>
<td>Hoops measurement</td>
<td>hanging position</td>
<td></td>
</tr>
<tr>
<td>hoop / balls / clubs / ribbons without indication</td>
<td>min. 300 / 400 / 150 / 35 g (30g Juniors)</td>
<td></td>
</tr>
<tr>
<td>Indication</td>
<td>all measures indicated unmistakably</td>
<td></td>
</tr>
</tbody>
</table>

---

**Signature**  
**Time & date**
6. Required Equipment for FIG – Competitions MAG / WAG / RG / TRA
Competition Equipment for Men's Artistic Gymnastics
(including training and warm-up hall)

Please note that for all FIG sanctioned events the apparatuses shall have a valid FIG-certificate and the FIG must be informed in due time of the official apparatus manufacturer and the exact product. It is allowed to have more than one apparatus manufacturer but it must be guaranteed that the same product is used in the training- warm-up- and competition hall.

Deviations in the colors of the equipment due to event-oriented specifications, advertising stickers or for the delimiting lines on the competition surfaces to improve contrast are permitted for the FoP after consultation with the FIG.

### Table: Competition Equipment for Men's Artistic Gymnastics

<table>
<thead>
<tr>
<th>Apparatus</th>
<th>Quantity Arena</th>
<th>Quantity warm-up hall</th>
<th>Quantity for each training hall</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Floor Exercise</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Free exercise floor</td>
<td>MNG 1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Magnesia stand for feet (filled with magnesia)</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesia)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Supplementary mat 200x200x10 cm</td>
<td>MNG 13</td>
<td>1 *)</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Pommel Horse</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pommel horse (including anchoring system to the floor)</td>
<td>MNG 2</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Set of landing mats 10 cm, surface according to Apparatus Norms</td>
<td>MNG 12</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesia)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td><strong>Rings</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ring frame</td>
<td>MNG 3</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Set of landing mats 20 cm, surface according to Apparatus Norms</td>
<td>MNG 11</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Ring hook</td>
<td>MNG 4</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesia)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Hard foam block approx. 90 x 50 x 70 cm for preparation of the rings</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Supplementary mat 200x200x10 cm</td>
<td>MNG 13</td>
<td>1 *)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Vault</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vaulting table (including anchoring system to the floor and 20 cm high padding of the feet)</td>
<td>MNG 4</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Runway with clear marking block at 25 meters</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Set of landing mats 20 cm, surface according to Apparatus Norms</td>
<td>MNG 12</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Supplemetary mat 600x200x10 cm with marked landing area (two diverging lines and one central line)</td>
<td>MNG 13</td>
<td>1 1 1 1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
<td></td>
</tr>
<tr>
<td>Soft crash mat 300x200x30 cm</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Additional supplementary mat 200x200x10 cm</td>
<td>MNG 13</td>
<td>1 *)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Vaulting bar ‘hard’ (with fixed springs)</td>
<td>MNG 14</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Vaulting bar ‘soft’ (with fixed springs)</td>
<td>MNG 14</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Vaulting bar Safety Collar</td>
<td>MNG 15</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mat for hands 120x100x3 cm</td>
<td>MNG 10</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Tape measure 25 meters</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Magnesia stand for feet (filled with magnesia)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesia)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td><strong>Parallel Bars</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parallel bars (if necessary with anchoring system to the floor / podium)</td>
<td>MNG 5</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Set of landing mats 20 cm, surface according to Apparatus Norms</td>
<td>MNG 11</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Vaulting bar ‘soft’ (with fixed springs)</td>
<td>MNG 14</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesia)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Supplementary mat 200x200x10 cm</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td><strong>Horizontal Bar</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horizontal bar (including anchoring system to the floor)</td>
<td>MNG 6</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Set of landing mats 20 cm, surface according to Apparatus Norms</td>
<td>MNG 13</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Supplementary mat 400x200x10 cm</td>
<td>MNG 13</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Additional supplementary mat 200x200x10 cm</td>
<td>MNG 13</td>
<td>1 *)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesia)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Hard foam block approx. 50x50x50 cm for preparation of rails</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
<tr>
<td>Dedicated pad for the preparation of the bar</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>Only for Podium Training, Warming up session of the Apparatus Finals</td>
</tr>
</tbody>
</table>

Spare parts such as rails, vaulting boards, pommels etc. at the discretion of the Organiser

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FIG Apparatus Norms Parts I - III
# Competition Equipment for Women's Artistic Gymnastics

(包括训练和热身大厅)

## FIG Apparatus Norms Parts I - III   2019

### WAG

**01.06.2018**

**122**

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Deviations in the colors of the equipment due to event-oriented specifications, advertising stickers or for the delimiting lines on the competition surfaces to improve contrast are permitted for the FoP after consultation with the FIG.

## For World Championships and Olympic Games

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Quantity Arena</th>
<th>Quantity warm-up hall</th>
<th>Quantity for each training hall</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vault</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vaulting table (including anchoring system to the floor and 20 cm high protection of the feet)</td>
<td>WAG 1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Set of landing mats 20 cm, surface according to Apparatus Norms</td>
<td>WAG 11</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Runway with clear markage at 25 meters</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Supplementary mat 600x200x10 cm with marked landing area (two diverging lines and one central line)</td>
<td>WAG 13</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Soft crash mat 300x200x30 cm</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Additional supplementary mat 200x200x10 cm</td>
<td>WAG13</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Vaulting board &quot;hard&quot; (with fixed springs)</td>
<td>WAG 14</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Vaulting board &quot;soft&quot; (with fixed springs)</td>
<td>WAG 14</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Vaulting board Safety Collar</td>
<td>WAG 15</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mat for hands 120x100x3 cm</td>
<td>WAG 16</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Tape measure 25 meters</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Magnesia stand for feet (filled with magnesium)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesium)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Uneven Bars</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Uneven bars</td>
<td>WAG 2</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>10 cm support plates</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Set of landing mats 20 cm, surface according to Apparatus Norms</td>
<td>WAG 11</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Supplementary mat, 400x200x12 cm</td>
<td>WAG 13</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Additional spotter mat</td>
<td>WAG17</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Vaulting board &quot;soft&quot; (with fixed springs)</td>
<td>WAG 14</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Magnesia stand for feet (filled with magnesium)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesium)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Hard foam block, approx. 50x50x50 cm for preparation of rails</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Balance Beam</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balance beam with padded legs</td>
<td>WAG 3</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Supplementary mat, 400x200x10 cm</td>
<td>WAG 13</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Additional safety mat 200x200x10 cm</td>
<td>WAG13</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Vaulting board &quot;soft&quot; (with fixed springs)</td>
<td>WAG 14</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Magnesia stand for feet (filled with magnesium)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesium)</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Floor Exercise</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Free exercise floor</td>
<td>WAG 4</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Magnesia stand for feet (filled with magnesium)</td>
<td>4</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Magnesia stand for hands (filled with magnesium)</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Supplementary mat 200x200x10 cm</td>
<td>WAG13</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

Spare parts such as rails, vaulting board etc. at the discretion of the Organiser
Please note that for all FIG sanctioned events the apparatuses shall have a valid FIG-certificate and the FIG must be informed in due time of the official apparatus manufacturer and the exact product. It must be guaranteed that the same floor from one manufacturer (same reference) is used in the training- warming-up- and competition hall. Deviations due to advertising stickers or for the color of the delimiting lines on the competition floor (FoP) to improve contrast are permitted after consultation with the FIG.
Please note that for all FIG sanctioned events the apparatuses shall have a valid FIG-certificate and the FIG must be informed in due time of the official apparatus manufacturer and the exact product. It is allowed to have more than one apparatus manufacturer but it must be guaranteed that the same product is used in the training- warm-up- and competition hall. The only exceptions to this rule are the safety mats around the trampoline. The mats can be different in the venues (training, warm up and competition hall) as long as they meet the requirements in TRA 1; 7.a) or b). Within one venue, differences between the safety mats are not allowed.

Deviations in the colors of the equipment due to event-oriented specifications, advertising stickers or for the delimiting lines on the competition surfaces to improve contrast are permitted for the FoP after consultation with the FIG.

Spare parts at the discretion of the Organiser

Please note that for all FIG sanctioned events the apparatuses shall have a valid FIG-certificate and the FIG must be informed in due time of the official apparatus manufacturer and the exact product. It is allowed to have more than one apparatus manufacturer but it must be guaranteed that the same product is used in the training- warm-up- and competition hall. The only exceptions to this rule are the safety mats around the trampoline. The mats can be different in the venues (training, warm up and competition hall) as long as they meet the requirements in TRA 1; 7.a) or b). Within one venue, differences between the safety mats are not allowed.

Deviations in the colors of the equipment due to event-oriented specifications, advertising stickers or for the delimiting lines on the competition surfaces to improve contrast are permitted for the FoP after consultation with the FIG.

Spare parts at the discretion of the Organiser
YOUR PROJECTS
OUR KNOW HOW
YOUR PARTNER IN YOUR PROJECT BUSINESS
III  Certificates and diplomas
3D Sensing Technology

The technology keeps challenging, to capture the fast and complex movements.

More advanced, more accurate and in real-time. Fujitsu’s 3D sensing technology accurately analyzes and digitalizes the technique of world class gymnasts, which is very hard for the human eye to follow.

Fujitsu’s 3D laser sensor irradiates 2 million lasers per second, and generates 3D data on gymnast’s performances in real time, then AI recognizes their joint positions and analyzes the movements. Digitalization of human movement will enable us to create a new future for sports; for athletes, spectators/audience and judges. Fujitsu will continue to evolve the gymnastics world with its cutting edge technologies.

shaping tomorrow with you
Content

1. Each apparatus must have a valid FIG Certificate III/3
2. Validity of the Certificate III/3
3. Rights of the Apparatus Manufacturer with a valid FIG Certificate III/3
4. Procedure to obtain a Certificate III/3
   4.1 Recognition of the FIG Statutes, Rules and Regulations, Applicable law and arbitration, Code of Auto discipline
   4.2 Declaration concerning harmful substances
   4.3 Testing by a FIG recognised Testing Institute
   4.4 Practical Test
   4.5 Issuing of FIG Certificate
5. Testing Fees of the FIG recognised Testing Institutes III/5
6. Fee for the Certificates III/5
7. Obtaining a certificate without testing for apparatus produced by another manufacturer III/5
8. FIG Diploma III/6
9. Reward for the suppliers of World Championships and World Cup Finals III/6
10. Renewal of Certificates III/6
11. New Apparatus, Modified Apparatus, New Developments III/7
12. Publication of the FIG Certificates and Diplomas III/7
13. FIG Sticker - FIG APPROVED III/7
14. Control of apparatus at the competitions
    Re-testing of apparatus by the FIG at the Testing Institute III/8
15. FIG recognised Testing Institutes III/8
16. Publicity and manufacturer’s logo on apparatus III/9
17. Waiver of Liability III/9
18. Current Fees for FIG-Certificates III/9
# Content

<table>
<thead>
<tr>
<th>Appendix 1</th>
<th>Directives for the Use of Official FIG Designations and Logos</th>
<th>III/10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appendix 2</td>
<td>FIG Recognised Testing Institutes Addresses and Contact Persons</td>
<td>III/14</td>
</tr>
<tr>
<td>Appendix 3</td>
<td>FIG Recognised Testing Institutes What can be tested where?</td>
<td>III/15</td>
</tr>
<tr>
<td>Appendix 4</td>
<td>Testing Fees of the FIG Recognised Testing Institutes</td>
<td>III/16</td>
</tr>
<tr>
<td>Appendix 5</td>
<td>Code of Auto discipline</td>
<td>III/18</td>
</tr>
<tr>
<td>Appendix 6</td>
<td>Intermediate Rules</td>
<td>III/26</td>
</tr>
</tbody>
</table>
1. Each apparatus must have a valid FIG Certificate

The definition of «Apparatus» for these Apparatus Norms is: All apparatus used at FIG competitions and listed in these Apparatus Norms. Each apparatus, including all hand apparatus used in Rhythmic Gymnastics, must have its own, valid Certificate, to be used at FIG events, Olympic Games, World Games and international events.

For Olympic Games, World Championships, World Games and other multi-sports games (e.g. Commonwealth Games, Asian Games, Panam Games, University Games), the apparatus must have a valid certificate at least 1 year prior to the competitions. For all other competitions, the certificates must be valid at the latest at the moment of the invitation. Example: World Cup / World Challenge Cup: 3 months prior to the competitions.

2. Validity of the Certificate

The Certificates have a validity of two years. The expiry date is indicated on the certificate.
The FIG may, at any time, prolong or shorten the validity of issued Certificates or withdraw a Certificate.

3. Rights of the Apparatus Manufacturer with a valid FIG Certificate

When receiving a FIG Certificate, the apparatus manufacturer obtains the following rights:

- The right that the respective apparatus may be used at all official events of the FIG, its Continental Unions and member federations, as well as at the Olympic Games and World Games.
- The right to use the designation and the logo «FIG Approved» together in the catalogue and other publicity material, as prescribed in the respective directives of the FIG. (see Appendix 1)
- The use of the sticker «FIG Approved» on the respective apparatus.
- The regular publication in the list of certified apparatus in the FIG Bulletin and on FIG’s website.
- One free advertisement (1 x ½ page, black and white) in the FIG Bulletin during the period of validity of each Certificate.

4. Procedure to obtain a FIG Certificate

The procedure consists of five steps:

- Declaration to be bound by the FIG’s Statutes, Rules and Regulations as well as the provisions concerning governing law and arbitration
- Declaration of safety regarding chemical additives and any other harmful material or substances
- Testing at one of the FIG recognised Testing Institutes
- Practical test
- Issuing of the Certificate by the FIG

4.1. Recognition of the FIG Statutes, Rules and Regulations

Apparatus manufacturers who wish an FIG Certificate have to confirm in writing, that they recognise and strictly follow the FIG Statutes, Rules and Regulations.
For their relationship with the FIG, the Testing Institutes, FIG’s member federations, the Continental Unions and the organising committees, the apparatus manufacturer must accept to be governed by Swiss law and in case of disputes, to resolve such disputes to the exclusion of the ordinary courts by arbitration.
The following declaration must be made and signed:

“We herewith confirm unequivocally to respect and strictly follow the FIG Statutes, Technical Regulations, Code of Points, Apparatus Norms including the Code of Auto discipline, the Rules for Advertising and Publicity the Accreditation Rules, the Directives and Work plans of the competitions and all other Rules and Regulations published on FIG’s website. This commitment is valid as long as we have a valid Certificate.

All disputes arising out of or in connection with the Apparatus Norms, the testing and/or certification of our apparatus and in the relationship with the FIG, or one of their recognised Testing Institutes, Member Federations or Organising Committees shall be resolved, to the exclusion of the ordinary courts by an Arbitration Tribunal constituted in accordance with the Statutes and Regulations of the Court of Arbitration of Sport in Lausanne, Switzerland. We hereby undertake to comply with the said Statutes and Regulation, and to enforce in good faith the award to be rendered. The decision of the Arbitration Tribunal shall be final and binding on the parties.”

4.2. Declaration of safety regarding chemical additives and any other harmful material or substances

Apparatus manufacturers who wish to obtain a certificate, must confirm the following in a written declaration:

“We herewith confirm that all our products do not contain any known hazardous or harmful substances, material, and chemical additives, including phthalates in a concentration exceeding the maximum concentrations admitted by the Swiss and EU legislation for products manufactured in Switzerland or within the European Economic Area and that they are of no health risk whatsoever for the intended use.

We hereby agree to defend, indemnify and hold harmless the FIG, its representatives, employees, consultants and members from and against all claims, demands, losses, costs including judicial and extrajudicial costs arising from any legal action, damages, actions, suits or proceedings and by whomever made, bought, or prosecuted and in any manner based upon resulting from any misrepresentation or breach of this declaration by us, our representatives, employees, agents, suppliers or sub-contractors”.

4.3. Testing by a FIG recognised Testing Institute

Together with the submission of the confirmations described under 4.1 and 4.2, the test of the equipment concerned may be applied for at a test institute recognised by the FIG. A previous contact with the FIG Headquarters in Lausanne is needed for this purpose. All costs in connection with the testing (transport and testing fee) are the responsibility of the apparatus manufacturer and have to be paid prior to the tests. (Testing fees see Appendix 4). Only after the FIG Headquarters has confirmed the completeness of the documentation and the payments is the applicant and the Test Institute granted permission to initiate all further preparations for the laboratory test (for contact details to the Test Institutes see Appendix 2). The Testing Institute tests the apparatus following the norms and testing procedures and prepares and submits a test report on behalf of the FIG and the apparatus manufacturer. Manufacturers can raise an objection against descriptions and dimensions of their equipment in the test report within a period of 2 weeks after receiving the report. For equipment with no existing test procedures the testing is done by the responsible Technical Committee after presentation of the confirmation according to 4.3. All costs are the responsibility of the apparatus manufacturer. The testing shall be announced to the FIG Secretary General.
4.4. Practical Test

After a successful laboratory test, the apparatus needs to be tested practically by gymnasts and coaches in order to get a FIG certificate. For this purpose, the FIG headquarters assigns one or several FIG’s member federations, which will test the apparatus in a training centre by elite gymnasts. The apparatus must be tested under competition conditions. The manufacturer must provide a confirmation signed by the President or Secretary General of the respective member federation(s) containing the following:

“We confirm to have tested apparatus X under competition conditions at our training centre and/or at competitions. The apparatus is of the best quality, safe and suitable to be used at international competitions. We recommend that the FIG initiates the necessary procedures that this apparatus may be used at future international events.”

4.5. Issuing of FIG Certificates

The FIG Certificate will be issued by the Secretary General, provided the following conditions are met:

- Confirmation / declaration from the manufacturer to recognise the FIG Statutes, Rules and Regulations and confirmation concerning applicable law and arbitration (see 4.1)
- Declaration of safety regarding chemical additives and any other harmful material or substances (see 4.2)
- The confirmation/recommendation from a member federation concerning the practical test. (see 4.3).
- A positive test report from one of the FIG recognised Testing Institutes.
- Payment of the test fee and the Certificate fee.

5. Testing fees of the FIG recognised Testing Institutes

The testing fees must be approved by the FIG and must be identical at all FIG recognised Testing Institutes. The testing fees valid at this time are published in Appendix 4. The Testing Institutes invoice the Apparatus Manufacturer directly with the testing fees and taxes and must be prepaid.

6. Fee for the Certificate

The fee to be paid to the FIG to obtain a Certificate and the attached rights are listed in Part III, § 18 and § 3. This fee is decided by the Executive Committee and may be adjusted every two years if necessary. This fee must be paid by the Apparatus Manufacturers in advance to the FIG.

7. Obtaining a certificate without testing for apparatus produced by another manufacturer

Apparatus manufacturers and retailers may obtain an FIG certificate in their name to sell apparatus produced by another manufacturer according to the following conditions:

- Written approval from the apparatus manufacturer who has produced and tested his apparatus and has a valid certificate.
- Payment of the fee to the FIG for the requested certificate as per Art. 18 of Part III of the FIG Apparatus Norms
- The validity of the certificate cannot exceed the expiry of the original certificate of the manufacturer who has tested the apparatus
- The manufacturer who produces the apparatus may withdraw his approval at any time with written notification to FIG
• The certificate cannot be extended without approval from the manufacturer who produces the apparatus.

The description of the apparatus on the certificate must contain the name of the apparatus and an article number which is identical to the one listed in the catalogue. It must also bear the name of the manufacturer as well as the article number and name of the respective apparatus.

8. FIG Diploma

Manufacturers, who are in possession of 12 or more valid Certificates, receive a FIG Diploma free of charge. The Diploma is valid as long as the manufacturer has 12 or more valid Certificates.

The FIG Diploma gives the apparatus manufacturer the following additional rights:

• The right to have two VIP accreditations to the official FIG Competitions
• The right to attend the FIG Congress, Council, Gala and Symposium
• The right to be represented directly or indirectly to Apparatus Commission at the discretion of the FIG President (see art. 15.2 and 23 of FIG Statutes)
• The right to bear the designation «Official FIG Partner» and to use this on his letter head and promotional material.
• The right, to use the FIG Logo on his letter head and catalogue. The directives (Appendix 1) must be followed.
• A free advertisement (1 x 1/1 page, in colour) in World of Gymnastics every second year.
• A free advertisement in the FIG Bulletin (1 x 1/1 page, black and white) every second year.
• To be mentioned in the list of the Official FIG Partners and official Sponsors, this is published in every Bulletin, in the Directory and on the FIG website.
• The publication of the manufacturer’s logo in a composite page together with the official FIG sponsors in every issue of World of Gymnastics.
• A free advertisement (1/1 page, black and white) in the respective Code of Points.

9. Reward for the suppliers of World Championships and World Cup Finals

Apparatus manufacturers who have supplied the apparatus for the World Championships alone or with a maximum of one other manufacturer may request a confirmation from the FIG as «Official Supplier of the «World Championships XXX»). This confirmation may be used for publicity purposes, following the respective Directives of the FIG, (see Appendix .1)

10. Renewal of Certificates

After the first period of validity (2 years) a Certificate may be prolonged maximum twice for another period of two years by paying the fee without testing, provided the norms and/or testing procedures for the respective apparatus have not changed in the meantime and that the apparatus has not lead to any complaints during the validity of the Certificate.

If the construction of the apparatus or the functional properties have changed, the apparatus has to undergo a practical test (see 4.1) as well as by a Testing Institute (see 4.2). In case of small modifications which do not affect the functional properties or would not lead to a different test results, the FIG may dispense the apparatus manufacturer from testing. In cases of doubt, the Secretary General takes a final decision in consultation with the FIG Test Institute and the President of the Apparatus Commission.

To renew a certificate the apparatus manufacturer must send a request to the FIG – secretariat. This request must include the following three statements:

“We confirm that the construction of the apparatus and the functional properties have not changed since the last successful test!”
“We confirm that the materials used are the same and have the same functional properties as those used for the last successful test!”
“We confirm that our apparatus has been adapted to the apparatus norms valid today!”
The FIG may require a re-test or refuse the prolongation.

11. New Apparatus, Modified Apparatus, New Developments

Those are defined as follows:
- New apparatus which are not included in the Apparatus Norms
- Apparatus which are listed in the Apparatus Norms, but which have been significantly modified in their form, functional properties or development

Before the manufacturer constructs a prototype, the FIG recommends that the President of the Apparatus Commission and/or the respective TC President be contacted to find out if such a new apparatus is desired. If this is confirmed, a prototype can be constructed and presented to the FIG.

Upon recommendation of the respective TC and the Apparatus Commission, the Executive Committee may decide on a general practical test. For such a test, the EC invites manufacturers to produce prototypes and to have those tested at the same time in 4-5 training centres chosen by the FIG. The costs are the responsibility of the apparatus manufacturers interested in the project. After analyses of the test results the Apparatus Commission - in cooperation with the respective TC and the other FIG Commissions - makes the necessary proposals to the EC for the further procedure regarding the possible introduction of the new apparatus.

12. Publication of the FIG Certificates and Diplomas

The FIG regularly publishes a list of the valid Certificates and Diplomas including the period of validity.

13. FIG Sticker «FIG APPROVED»

Apparatus manufacturers who are in possession of a valid FIG Certificate have the right to stick or print the «FIG Approved» sticker on the respective apparatus. The sticker can be received from the FIG free of charge. «FIG Approved» is also available by electronic support. For colours and size see Appendix 1.

Upon written approval by the FIG Secretary General, the Sticker “FIG-Approved” can also be used for apparatuses which have no certificate and where no test is required i.e. supplementary mats, spotter mats, measuring table for RG-Apparatus etc. The written approval of the Secretary General also allows the manufacturer to use the term “FIG-Approved” for the publicity and offers of the above-mentioned kind of apparatuses.

Each written approval issued by the Secretary General is valid for two years and costs 25% of the current fees for FIG Certificates as per point III, p. 18 of these regulations per apparatus.

These written approvals cannot be considered as a “certificate” in the spirit of these rules. It is not possible to issue such an approval for manufacturers who have no valid certificate.

14. Control of Apparatus at the competitions

Re-testing of apparatus by the FIG at the Testing Institute

At the official events of the FIG, as well as at the Olympic Games and World Games, the apparatus are officially controlled on site. This control mainly consists of checking the measurements, making sure that the apparatus used at the competition is identical to the tested one, as well as a control of the layout, safety zones and matting. The apparatus manufacturer is responsible that those delivered apparatus are 100% identical to the one tested in respect of the material used as well as the construction. The apparatus manufacturers are fully responsible that the norms are strictly respected; the correct setting up of the apparatus is the responsibility of the organising committee.

The FIG has and reserves the right to re-test apparatus before, during and after an event at the nearest recognised Testing Institute. In case the testing report is positive, all costs are at the charge of the FIG. In case the report is negative, the costs are at the charge of the apparatus manufacturer. Furthermore, the validity of the Certificate is immediately withdrawn. The
Disciplinary Commission decides about the duration of a ban against the respective manufacturer. Afterwards, the manufacturer may apply Certificate to be issued by the FIG (following 4.4).

15. FIG recognised Testing Institutes

The following Testing Institutes are recognised by the FIG at this time:
- GymLab (GER)
- Tokyo Institute of Technology (JPN)

For addresses, contact person, delivery addresses etc. see Appendix 1
All Testing Institutes charge the same testing fee. (See Appendix 4)
The testing fees must be approved by the FIG.
The Testing Institutes are absolutely neutral and must strictly follow the FIG testing procedures.
Testing equipment and conditions must be equal at all Testing Institutes.
It is the goal that all Testing Institutes are able to test all apparatus.
Appendix 3 lists which institute can test which apparatus.
Part IV of the Apparatus Norms also gives the necessary information about how many apparatus, m^2 or m of the respective apparatus must be supplied for testing purposes.

16. Publicity and apparatus manufacturer’s logo on the apparatus

See FIG Rules for Advertising and Publicity.

17. Waiver of Liability

With these Apparatus Norms, the FIG and its member federations, as well as the Testing Institutes are in no way responsible for the apparatus. The FIG, its member federations and the Testing Institutes waive all liability in connection with the use of apparatus described in these Apparatus Norms.

18. Current Fees for FIG Certificates

The following fees for Certificates are applied:
The fee to be paid to issue a Certificate for the first time or to renew a Certificate depends on the number of valid Certificates a manufacturer already has

<table>
<thead>
<tr>
<th>Number of Certificates held</th>
<th>Fee in EURO per Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6'500</td>
</tr>
<tr>
<td>2 - 3</td>
<td>5'200</td>
</tr>
<tr>
<td>4 - 5</td>
<td>3'900</td>
</tr>
<tr>
<td>6 - 7</td>
<td>2'600</td>
</tr>
<tr>
<td>8 - 9</td>
<td>1'300</td>
</tr>
<tr>
<td>10 - 11</td>
<td>1'040</td>
</tr>
<tr>
<td>12 and more</td>
<td>780</td>
</tr>
</tbody>
</table>

19. Code of Auto discipline

A “Code of Auto discipline” has been elaborated by the Apparatus Commission and approved by the FIG Executive Committee in order to determine the rules, concerning the manufactures relations with the FIG and between themselves.

The rules envisaged in the Auto discipline Code are applied automatically to each infraction of the Apparatus Norms in force.

See Appendix 5
1. General Principles

1.1. The designations and logotypes/logos which are presented in this document are property of the Fédération Internationale de Gymnastique (FIG). Their use requires the FIG's authorization. Any illegal use or non-conformity with these directives will be prosecuted and results in the withdrawal of the certificate or diploma.

1.2. The acquisition conditions for these designations which are reserved for the FIG partners are included in the brochure "Apparatus Norms" published by the FIG.

1.3. The use of these designations and logotypes/logos which are reserved for the FIG partners is prescribed in this appendix.

1.4. The general graphic prescriptions are defined in the FIG Graphics Chart.

1.5. The graphic prescriptions reserved for the use of the FIG apparatus manufacturers are included in this appendix.

1.6. The use of any designation or logotype/logos other than those mentioned in this appendix is strictly prohibited.

1.7. Any other reference to “FIG”, use of the abbreviation “FIG” (or “Fédération Internationale de Gymnastique” in any language) as well as wordings such as “following FIG Norms”, “in the process to be tested” etc. are strictly prohibited.

2. Definitions

These directives regulate the different rights of the three apparatus manufacturer categories as follows:

2.1. Holder of the "FIG-Certificate"

2.2. Holder of the "FIG-Diploma"

2.3. Holder of an FIG confirmation as "Official Supplier of the World Championships"
VTB — OFFICIAL FIG PARTNER
3. **Holder of the FIG-Certificate**

The holder of the "FIG Certificate" may use the logotype "**FIG Approved**" respecting the following conditions:

3.1. The logotype may only and exclusively be associated with only one element respectively one single article, apparatus or accessory duly certified by the FIG.

3.2. It may be used on an article respectively an apparatus or an accessory itself or it may be integrated in any type of advertising or publicity but only in **direct connection or relation** with the respective certified apparatus. The logotype may also appear in a description of the certified apparatus (advertisement, publicity leaflet etc.)

3.3. **It may not be used as an isolated element, separate from the apparatus.**

3.4. Consequently, it may not appear on letter heads, cover pages of catalogues, or in editorial articles with advertising purposes, nor in any other institutional documents containing general information.

3.5. **Graphics**

3.5.1. **Logotype FIG Approved**: (respect the size as per 3.6.1)

![FIG Approved Logotype](image)

3.5.2. **Colours**

According to the range defined by the FIG Graphics Chart.

- **Black**
- **Blue Pantone 3005 U**
- **Red Warm red CV**

3.6. **Use and size / Maximum dimensions**

3.6.1. **On printed matters**

<table>
<thead>
<tr>
<th>Formats</th>
<th>14.8 x 21.0 cm</th>
<th>ø 08 mm max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5</td>
<td>21.0 x 29.7 cm</td>
<td>ø 12 mm max.</td>
</tr>
<tr>
<td>A4</td>
<td>29.7 x 42.0 cm</td>
<td>ø 18 mm max.</td>
</tr>
<tr>
<td>A3</td>
<td>42.0 x 59.4 cm</td>
<td>ø 35 mm max.</td>
</tr>
<tr>
<td>A2</td>
<td>59.4 x 84.1 cm</td>
<td>ø 60 mm max.</td>
</tr>
</tbody>
</table>
3.6.2. **On the apparatus**

The logotype "FIG Approved" may only be applied to the support surfaces (supports, legs of apparatus) of the apparatus. Maximum diameter is 35 mm.

On the floor and on the mats the logotype may appear in one of the four corners with a maximum distance of 5 cm to the corner or on the side of the floor/mat with the exception of the surfaces which are reserved for advertising purposes as defined in the "FIG Rules for Advertising and Publicity". Maximum diameter is 35 mm.

On the apparatus for rhythmic gymnastics the logotype/sticker "FIG Approved" is described in RG, 2, 3, 4, 5, 6 and 7 pages 70/71 in chapter II of the FIG Apparatus Norms.

4. **Holder of the FIG Diploma**

4.1. The right to use the designation "Official FIG Partner" subject to article 1.5 of the "FIG Rules for Advertising and Publicity".

4.2. The right to use the FIG Logo for advertising purposes only, strictly respecting the FIG Graphics Chart.

In addition to the rights listed in chapter 3, the holder of a FIG Diploma obtains:

**FIG Logo:**

![FIG Logo]

4.3. The title "Official FIG Partner" and the FIG logotype may by no means be used directly attached to or with a product but only with the company name or identity of the holder of the FIG Diploma. (e.g.: letter heads, envelopes, cover pages of catalogues, various kinds of printed material, newsletters, "give aways" etc.)
5. Holder of an FIG confirmation as "Official Supplier for the World Championships"

5.1. The apparatus manufacturer who has been duly confirmed by the FIG may use the designation

"Official Supplier of the World Championships X"

5.2. The use of the above-mentioned designation (for advertising purposes only) can only be associated with the supplied apparatus and also with the company name of the manufacturer. (e.g.: letter heads, envelopes, cover pages of catalogues, various kinds of printed material, newsletters, "give aways" etc.)

5.3. The above-mentioned designation may be used together with the FIG logotype according to the regulations of the FIG Graphics Chart and within the following dimensions:

5.4. Formats:

<table>
<thead>
<tr>
<th>Format</th>
<th>Width (cm)</th>
<th>Height (cm)</th>
<th>Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5</td>
<td>14.8</td>
<td>21.0</td>
<td>8</td>
</tr>
<tr>
<td>A4</td>
<td>21.0</td>
<td>29.7</td>
<td>12</td>
</tr>
<tr>
<td>A3</td>
<td>29.7</td>
<td>42.0</td>
<td>18</td>
</tr>
<tr>
<td>A2</td>
<td>42.0</td>
<td>59.4</td>
<td>35</td>
</tr>
<tr>
<td>A1</td>
<td>59.4</td>
<td>84.1</td>
<td>60</td>
</tr>
</tbody>
</table>

**Recommendation**

We strongly recommend that the holder of a certificate or a diploma should send his drafts of all printed matters to the FIG to be proof-read prior to printing.
Fig Recognised Testing Institutes

Addresses and Contact Persons

GymLab GmbH
Schwarzwaldstraße 175
D-79117 Freiburg i. Br.
Germany

Phone +49 761 203 4554
e-mail daniel.fesser@gymlab.com

Contact Person Daniel Fesser

Tokyo Institute of Technology
Faculty of Engineering
Department of Architecture and Building Engineering
FIG Norm Testing Laboratory (Ono Lab.)
2-12-1 O-okayama
Meguro-ku
Tokyo 152-8552
Japan

Fax +81 3 5734 3164
Phone +81 3 5734 3164
E-mail mikami@mei.titech.ac.jp

Contact Person Takamasa Mikami
### FIG RECOGNISED TESTING INSTITUTES

- What can be tested where? -

#### APPARATUS

<table>
<thead>
<tr>
<th>MAG Apparatus</th>
<th>Code</th>
<th>Test Procedure</th>
<th>GymLab</th>
<th>Tokyo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td>MAG1</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Pommel Horse</td>
<td>MAG2</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>MAG2-1</td>
<td>Shock Absorption</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG2-2</td>
<td>Top Friction of Horse Body</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG2-3</td>
<td>Pos. Stability of Pommels</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG2-4</td>
<td>Friction of Pommels</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Rings</td>
<td>MAG3</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Vaulting Table</td>
<td>MAG4</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Parallel Bars</td>
<td>MAG5</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>MAG5-1</td>
<td>Static traction stress</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG5-2</td>
<td>Stress by pendulum swing</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG5-3</td>
<td>Oscillation damping</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG5-4</td>
<td>Lateral stability</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Horizontal Bar</td>
<td>MAG6</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>MAG6-1</td>
<td>Static traction stress</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG6-2</td>
<td>Stress by pendulum swing</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>MAG6-3</td>
<td>Oscillation damping</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>MAG11</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Landing Mat 10cm</td>
<td>MAG12</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Vaulting Board</td>
<td>MAG14</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Tension Control Sensor</td>
<td>MAG18</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
</tbody>
</table>

#### WAG Apparatus

<table>
<thead>
<tr>
<th>WAG Apparatus</th>
<th>Code</th>
<th>Test Procedure</th>
<th>GymLab</th>
<th>Tokyo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaulting Table</td>
<td>WAG1</td>
<td>Complete Test (see MAG4)</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Uneven Bars</td>
<td>WAG2</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>WAG2-1</td>
<td>Static traction stress</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>WAG2-2</td>
<td>Stress by pendulum swing</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>WAG2-3</td>
<td>Oscillation damping</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Balance Beam</td>
<td>WAG3</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>WAG3-1</td>
<td>Shock Absorption</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>WAG3-2</td>
<td>Top Friction</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Floor</td>
<td>WAG4</td>
<td>Complete Test (see MAG1)</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>WAG11</td>
<td>Complete Test (see MAG11)</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Vaulting Board</td>
<td>WAG14</td>
<td>Complete Test (see MAG14)</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Tension Control Sensor</td>
<td>WAG18</td>
<td>Complete Test (see MAG18)</td>
<td>¥</td>
<td>¥</td>
</tr>
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#### RG Apparatus

<table>
<thead>
<tr>
<th>RG Apparatus</th>
<th>Code</th>
<th>Test Procedure</th>
<th>GymLab</th>
<th>Tokyo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td>RG1</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>RG1-1</td>
<td>Shock Absorption</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>RG1-2</td>
<td>Static stiffness</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>RG1-3</td>
<td>Top Friction</td>
<td>¥</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Hand Apparatus</td>
<td>RG2,3,4,5,6,7</td>
<td>Complete Test (each app)</td>
<td>¥</td>
<td></td>
</tr>
</tbody>
</table>

#### TRA Apparatus

<table>
<thead>
<tr>
<th>TRA Apparatus</th>
<th>Code</th>
<th>Test Procedure</th>
<th>GymLab</th>
<th>Tokyo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trampoline</td>
<td>TRA1</td>
<td>Complete Test</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Double mini-trampoline</td>
<td>TRA2</td>
<td>Complete Test</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Tumbling Track</td>
<td>TRA3</td>
<td>Complete Test</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>TRA3-1</td>
<td>Shock Absorption</td>
<td>¥</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TRA3-2</td>
<td>Top Friction</td>
<td>¥</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>TRA11</td>
<td>Complete Test (see MAG14)</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>Vaulting Board</td>
<td>TRA14</td>
<td>Complete Test (see MAG14)</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>TMD</td>
<td>TRA15</td>
<td>Complete Test</td>
<td>¥</td>
<td></td>
</tr>
<tr>
<td>HMD</td>
<td>TRA16</td>
<td>Complete Test</td>
<td>¥</td>
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#### ACRO Apparatus

<table>
<thead>
<tr>
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<th>Test Procedure</th>
<th>GymLab</th>
<th>Tokyo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td>ACRO1</td>
<td>Complete Test (see MAG1)</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>ACRO11</td>
<td>Complete Test (see MAG11)</td>
<td>¥</td>
<td>¥</td>
</tr>
</tbody>
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#### AER Apparatus

<table>
<thead>
<tr>
<th>AER Apparatus</th>
<th>Code</th>
<th>Test Procedure</th>
<th>GymLab</th>
<th>Tokyo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td>AER1</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
<tr>
<td>Aerobic Step</td>
<td>AER2</td>
<td>Complete Test</td>
<td>¥</td>
<td>¥</td>
</tr>
</tbody>
</table>
# Appendix 4

## TESTING FEES OF THE FIG

### RECOGNISED TESTING INSTITUTES

<table>
<thead>
<tr>
<th>Apparatus</th>
<th>Code</th>
<th>Test Procedure</th>
<th>Charge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor</td>
<td>MAG1</td>
<td>Complete Test</td>
<td>€ 5200.</td>
</tr>
<tr>
<td>Pommel Horse</td>
<td>MAG2</td>
<td>Complete Test</td>
<td>€ 4860.</td>
</tr>
<tr>
<td>MAG2-1</td>
<td></td>
<td>Shock Absorption</td>
<td>€ 2600.</td>
</tr>
<tr>
<td>MAG2-2</td>
<td></td>
<td>Top Friction of Horse Body</td>
<td>€ 780.</td>
</tr>
<tr>
<td>MAG2-3</td>
<td></td>
<td>Pos. Stability of Pommels</td>
<td>€ 520.</td>
</tr>
<tr>
<td>MAG2-4</td>
<td></td>
<td>Friction of Pommels</td>
<td>€ 780.</td>
</tr>
<tr>
<td>Rings</td>
<td>MAG3</td>
<td></td>
<td>€ 2600.</td>
</tr>
<tr>
<td>Vaulting Table</td>
<td>MAG4</td>
<td>Complete Test</td>
<td>€ 4860.</td>
</tr>
<tr>
<td>Parallel Bars</td>
<td>MAG5</td>
<td>Complete Test</td>
<td>€ 6760.</td>
</tr>
<tr>
<td>MAG5-1</td>
<td></td>
<td>Static traction stress</td>
<td>€ 780.</td>
</tr>
<tr>
<td>MAG5-2</td>
<td></td>
<td>Stress by pendulum swing</td>
<td>€ 2600.</td>
</tr>
<tr>
<td>MAG5-3</td>
<td></td>
<td>Oscillation damping</td>
<td>€ 2600.</td>
</tr>
<tr>
<td>MAG5-4</td>
<td></td>
<td>Lateral stability</td>
<td>€ 780.</td>
</tr>
<tr>
<td>Horizontal Bar</td>
<td>MAG6</td>
<td>Complete Test</td>
<td>€ 7410.</td>
</tr>
<tr>
<td>MAG6-1</td>
<td></td>
<td>Static traction stress</td>
<td>€ 780.</td>
</tr>
<tr>
<td>MAG6-2</td>
<td></td>
<td>Stress by pendulum swing</td>
<td>€ 4420.</td>
</tr>
<tr>
<td>MAG6-3</td>
<td></td>
<td>Oscillation damping</td>
<td>€ 2210.</td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>MAG11</td>
<td></td>
<td>€ 2600.</td>
</tr>
<tr>
<td>Landing Mat 10cm</td>
<td>MAG12</td>
<td></td>
<td>€ 2600.</td>
</tr>
<tr>
<td>Vaulting Board</td>
<td>MAG14</td>
<td></td>
<td>€ 3900.</td>
</tr>
<tr>
<td>Tension Control Sensor</td>
<td>MAG18</td>
<td></td>
<td>€ 1750.</td>
</tr>
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<td>WAG Apparatus</td>
<td>Code</td>
<td>Test Procedure</td>
<td>Charge</td>
</tr>
<tr>
<td>Vaulting Table</td>
<td>WAG1</td>
<td>Complete Test</td>
<td>€ 8840.</td>
</tr>
<tr>
<td>Uneven Bars</td>
<td>WAG2</td>
<td>Complete Test</td>
<td>€ 1040.</td>
</tr>
<tr>
<td>WAG2-1</td>
<td></td>
<td>Static traction stress</td>
<td>€ 2600.</td>
</tr>
<tr>
<td>WAG2-2</td>
<td></td>
<td>Stress by pendulum swing</td>
<td>€ 2600.</td>
</tr>
<tr>
<td>WAG2-3</td>
<td></td>
<td>Oscillation damping</td>
<td>€ 2210.</td>
</tr>
<tr>
<td>Balance Beam</td>
<td>WAG3</td>
<td>Complete Test</td>
<td>€ 3380.</td>
</tr>
<tr>
<td>WAG3-1</td>
<td></td>
<td>Shock Absorption</td>
<td>€ 2600.</td>
</tr>
<tr>
<td>WAG3-2</td>
<td></td>
<td>Top Friction</td>
<td>€ 780.</td>
</tr>
<tr>
<td>Floor</td>
<td>WAG4</td>
<td></td>
<td>See MAG1</td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>WAG11</td>
<td></td>
<td>See MAG11</td>
</tr>
<tr>
<td>Vaulting Board</td>
<td>WAG14</td>
<td></td>
<td>See MAG14</td>
</tr>
<tr>
<td>Tension Control Sensor</td>
<td>WAG18</td>
<td></td>
<td>See MAG18</td>
</tr>
<tr>
<td>RG Apparatus</td>
<td>Code</td>
<td>Test Procedure</td>
<td>Charge</td>
</tr>
<tr>
<td>Floor</td>
<td>RG1</td>
<td>Complete Test</td>
<td>€ 5200.</td>
</tr>
<tr>
<td>RG1-1</td>
<td></td>
<td>Shock Absorption</td>
<td>€ 2600.</td>
</tr>
<tr>
<td>RG1-2</td>
<td></td>
<td>Static stiffness</td>
<td>€ 520.</td>
</tr>
<tr>
<td>RG1-3</td>
<td></td>
<td>Top Friction</td>
<td>€ 2080.</td>
</tr>
<tr>
<td>Hand Apparatus</td>
<td>RG2,3,4,5,6,7</td>
<td>Complete Test (each apparatus)</td>
<td>€ 650.</td>
</tr>
<tr>
<td>TRA Apparatus</td>
<td>Code</td>
<td>Test Procedure</td>
<td>Charge</td>
</tr>
<tr>
<td>Trampoline</td>
<td>TRA1</td>
<td></td>
<td>€ 5200.</td>
</tr>
<tr>
<td>Double mini-trampoline</td>
<td>TRA2</td>
<td>Complete Test</td>
<td>€ 325.</td>
</tr>
<tr>
<td>Tumbling Track</td>
<td>TRA3</td>
<td>Complete Test</td>
<td>€ 2000.</td>
</tr>
<tr>
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<td>Shock Absorption</td>
<td>€ 3120.</td>
</tr>
<tr>
<td>TRA3-2</td>
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<td>Top Friction</td>
<td>€ 1300.</td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>TRA11</td>
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<td>See MAG11</td>
</tr>
<tr>
<td>Vaulting Board</td>
<td>TRA14</td>
<td>Complete Test (see MAG14)</td>
<td>See MAG14</td>
</tr>
<tr>
<td>TMD</td>
<td>TRA15</td>
<td>Complete Test</td>
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</tr>
<tr>
<td>HDMD</td>
<td>TRA16</td>
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<td>€ 4000.</td>
</tr>
<tr>
<td>ACRO Apparatus</td>
<td>Code</td>
<td>Test Procedure</td>
<td>Charge</td>
</tr>
<tr>
<td>Floor</td>
<td>ACRO1</td>
<td></td>
<td>See MAG1</td>
</tr>
<tr>
<td>Landing Mat 20cm</td>
<td>ACRO11</td>
<td></td>
<td>See MAG11</td>
</tr>
<tr>
<td>AER Apparatus</td>
<td>Code</td>
<td>Test Procedure</td>
<td>Charge</td>
</tr>
<tr>
<td>Floor</td>
<td>AER1</td>
<td></td>
<td>€ 2600.</td>
</tr>
<tr>
<td>Aerobic Step</td>
<td>AER2</td>
<td></td>
<td>€ 650.</td>
</tr>
</tbody>
</table>

Prices indicated net of Value Added Tax (VAT). Invoicing is made according to the applicable VAT regulation.
Firms can obtain a discount on the testing fees provided that they own 4 or more certificates from the FIG. The percentage of discount depends on the number of certificates:

<table>
<thead>
<tr>
<th>Number of Certificates</th>
<th>Discount</th>
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<tbody>
<tr>
<td>4 - 5</td>
<td>10%</td>
</tr>
<tr>
<td>6 - 7</td>
<td>20%</td>
</tr>
<tr>
<td>8 - 9</td>
<td>30%</td>
</tr>
<tr>
<td>10 - 11</td>
<td>40%</td>
</tr>
<tr>
<td>12+</td>
<td>50%</td>
</tr>
</tbody>
</table>
Appendix 5

Code of Auto discipline

I. General

• The present code has been elaborated by the Apparatus Commission and approved by the FIG Executive Committee in order to determine the rules, concerning the manufactures relations with the FIG and between themselves. The following should also be taken into account: The Technical Regulations, the manual «FIG Apparatus Norm, Part I-IV», the Code of Ethics and the Advertising and Publicity Rules.

• The rules envisaged in the Auto discipline Code are applied automatically to each infraction of the rules in force. Modifications to the present code may only be made by the FIG Executive Committee, upon request of the TCs, the Apparatus Commission or the FIG Partners.

II. Rules and Criteria for Partners

• Partners must have 12 different FIG Certificates.
• Supplied at least one official FIG World or Continental Championships.
• Elaborate a research program for the development and security of apparatus
• Contribute to the development of gymnastics in the world
• Ensure the financial health of company.

III. The Rights of the FIG Partners

• The right to have two VIP accreditations to the official FIG Competitions.
• The right to assist at the FIG Congress, Council, Gala and Symposium
• The right to be represented directly or indirectly to Apparatus Commission at the discretion of the FIG President
• The right to bear the designation «Official FIG Partner» and to use this on his letter head and promotional material.
• The right, to use the FIG Logo on his letter head and catalogue. The directives (Appendix 1) must be followed.
• A free advertisement (1 x 1/1 page, in colour) in World of Gymnastics every second year.
• A free advertisement in the FIG Bulletin (1 x 1/1 page, black and white) every second year.
• To be mentioned in the list of the Official FIG Partners and official Sponsors, this is published in every Bulletin, in the Directory and on the FIG website.
• The publication of the manufacturer’s logo in a composite page together with the official FIG sponsors in every issue of World of Gymnastics.
• A free advertisement (1/1 page, black and white) in the respective Code of Points

IV. List of possible infractions against the FIG Apparatus Norms and other FIG Rules and Regulations and Sanctions applied by the FIG

General Infractions:

• Selling and/or offering certified apparatus without a valid certificate (certificate expired) (1st offence)
  Written warning +
  Rectify the offer (notification of the customer(s) by the manufacturer with copy to the FIG +
  Fine of Euro 2,000.-

• Same as above but 2nd offence.
  Rectify the offer (notification of the customer by FIG) +
  Fine of Euro 5,000.-
Appendix 5

Code of Auto discipline

- Selling and/or offering certified apparatus without a valid certificate (certificate not yet or never issued)
  
  Written warning +
  Rectify his offer (notification of the customer(s) with copy to FIG)+
  FIG may inform client(s) +
  Fine of Euro 2,000. - +
  Publication of the sanction

- Same as above, but 2nd offence.
  Written warning +
  Rectify his offer (notification of the customer(s)+
  FIG informs client(s) +
  Fine of Euro 5,000. - +
  Publication of the sanction +
  If FIG Partner, loss of status for 1 year

- Testing an apparatus and selling and/or deliberately offering a different apparatus or construction or modified apparatus than the tested prototype.
  Withdrawal of the respective certificate for 1 year +
  New test required +
  Fine of Euro 5'000.- +
  Publication of the sanction.

- Same as above, but 2nd offence.
  Withdrawal of certificates for 2 years +
  New tests required +
  Fine of Euro 10,000.- +
  Publication of the sanction.

- Wrong statements to FIG concerning “unchanged” equipment
  Withdrawal of the respective certificate for one year +
  New test required +
  Fine of Euro 5,000.- +
  Publication of the sanction.

- Same as above, but 2nd offence.
  Withdrawal of certificates for 3 years +
  New tests required +
  Fine of Euro 10,000.- +
  Publication of the sanction.

Infractions committed at FIG events

- Selling, renting, sponsoring, offering, delivering, installing etc, not certified apparatus (not certified at all, expired certificate or different apparatus from the tested one) for use at an FIG event and events where FIG Certified equipment is requested.
  Immediate rectification whenever possible +
  Withdrawal of the respective certificate for one year +
  New test required +
  Fine of Euro 3,000.- +
  Publication of the sanction.
Appendix 5

Code of Auto discipline

- Same as above but 2nd offence.
  - Immediate rectification whenever possible +
  - Withdrawal of certificates for 2 years +
  - New tests required +
  - Fine of Euro 6,000.- +
  - Publication of the sanction.

- Lack of quality of apparatus used at FIG events
  - FIG may take the apparatus and send it for testing

- Lack of quality of apparatus used at FIG events (Apparatus does not pass the test after an event)
  - Withdrawal of the respective certificate for one year +
  - New test required +
  - Fine of Euro 2,000.- +
  - Publication of the sanction.

- Same as above but 2nd offence
  - Immediate rectification for 2 years +
  - New test required +
  - Fine of Euro 5,000.- +
  - Publication of the sanction.

- Infraction against size of Manufacturers Logo and/or Advertising on apparatus
  - Immediate rectification +
  - Written warning

- Same as above but 2nd offence
  - Immediate rectification +
  - Written warning +
  - Fine of Euro 500.-

- Infraction against placement of Manufacturers Logo on apparatus
  - Immediate rectification +
  - Written warning

- Same as above but 2nd offence
  - Immediate rectification +
  - Written warning +
  - Fine of Euro 500.-

- Repeated infractions against size and / or placement of Manufacturers Logo
  - (3rd and more cases)
  - Immediate rectification +
  - Fine of Euro 5,000.-

- Placement of Manufacturers Logo or anything else in the Advertising Area.
  - Immediate rectification +
  - Written warning

- Same as above but 2nd offence
  - Immediate rectification +
  - Written warning +
  - Fine of Euro 1,000.-
Appendix 5

Code of Auto discipline

- Distribution of presents, PR, or other advertising and publicity items to competitors and or officials (FIG or Member Federations) without written approval of FIG at FIG events.
  Immediate stop of action +
  Written warning

- Same as above but 2nd offence
  Immediate stop of action +
  Written warning +
  Fine of Euro 2,000.-

- Placing of advertising and publicity in the competition hall other than the standard advertising boards as foreseen in the Rules for Advertising and Publicity without the written approval of FIG
  Immediate stop of action and rectification +
  Written warning

- Same as above but 2nd offence
  Immediate stop of action and rectification +
  Written warning +
  Fine of Euro 1,000.-

- Other infractions against the Rules for Advertising and Publicity
  Similar sanctions as mentioned above, depending on the severity of the infraction.

Catalogues / Publicity / Flyers / Printed Matters / Advertising etc.

- Using the abbreviation FIG in any way for not FIG certified apparatus, suggesting or giving the wrong impression of a relationship with FIG.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  FIG may notify customer(s) +
  Written warning

- Same as above, but 2nd offence.
  Immediate stop of action, rectification and notification of the customers
  With copy to the FIG +
  Written warning +
  FIG to notify customers +
  Fine of Euro 5,000.-

- Using the FIG logo without being an FIG partner
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning

- Same as above, but 2nd offence.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning +
  Fine of Euro 5,000.-

- Using the logo “FIG Approved” for not certified apparatus.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning

- Same as above, but 2nd offence.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning +
  Fine of Euro 5,000.-
Appendix 5

Code of Autodiscipline

- Not respecting the size of the FIG logo or FIG Approved logo.
  Immediate stop of action and rectification +
  Written warning

- Same as above, but 2nd offence.
  Immediate stop of action and rectification +
  Written warning +
  Fine of Euro 500.-

- Repeated offence as mentioned above.
  (3 and more cases)
  Immediate stop of action and rectification +
  Written warning +
  Fine of Euro 2,000.--

- Not using the FIG Approved logo directly attached to the respective product, thus giving the impression that other not certified products could also be FIG Approved.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning

- Same as above, but 2nd offence.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning +
  Fine of Euro 5,000.-

- Infractions of clients (retailers) of an FIG Manufacturer or FIG Partner misusing the word FIG, the FIG Logo or the logo FIG Approved
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning +
  FIG informs the FIG Manufacturer

- Same as above, but 2nd offence or not following FIG’s requests at the time of the 1st Offence,
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning +
  Fine of Euro 1,000.- +
  FIG requests FIG Manufacturer to no longer sell their products to the respective client.
  Manufacturer’s Certificate will be withdrawn by FIG if the problem remains.

- Giving the impression of FIG approval or certification by using misleading wording such as e.g.
  “meets FIG specs”, or “following FIG rules” or similar.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning

- Same as above, but 2nd offence.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning +
  Fine of Euro 1,000.-

- Reference to “old” and/or no longer valid certificates or former Diplomas
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning

- Same as above, but 2nd offence.
  Immediate stop of action, rectification and notification of the customers with copy to the FIG +
  Written warning +
  Fine of Euro 5’000.- +
  Possible withdrawal of other certificates
Appendix 5

Code of Autodiscipline

Using falsified certificates
*Immediate stop of action, rectification and notification of the customers with copy to the FIG + FIG may inform customer(s)*
*Fine of Euro 10,000.-*
*Publication of the sanction*

Same as above, but 2\textsuperscript{nd} offence.
*Immediate stop of action, rectification and notification of the customers + Fine of Euro 20,000.- + Withdrawal of all Certificates for a time to be defined by FIG.*
*Publication of the sanction*

• NOT FOLLOWING OR RESPECTING SANCTIONS
*Action and further sanctions to be taken at the discretion of FIG.*

• Infractions not listed above
*The FIG will take action and sanctions as deemed necessary at its discretion, following in principle similar cases listed above*

In addition to all the fines and sanctions listed above, the FIG reserves the right to take additional action as deemed necessary.

V. Procedure in case of Infractions and Sanctions

Infractions may be observed by all concerned (Apparatus Manufacturers, FIG Officials and third parties). Such observations must be given in writing to the FIG Secretary General.

The Secretary General will then take the necessary actions.

Written warnings are treated and decided by the Secretary General.

Immediate actions and decisions for infractions committed during FIG events are taken by the Secretary General and in his absence by his representative or the President of the Superior Jury. If he deems necessary, he will then forward the case to the FIG Disciplinary Commission for further action.

The Secretary General will report all warnings to the Apparatus Commission.

Offences with fines are treated by the FIG Disciplinary Commission.

The FIG Secretary General will keep a list of all offences warnings and sanctions. This list will include the date of the offence.

The 1\textsuperscript{st} offences will be considered as deleted after the following time period:
• Written warnings and offences with up to and including Euro 1,000.-
• after 1 Olympic Cycle.
• Offences with fines up to and including Euro 5,000.- after 2 Olympic cycles
• Offences with fines over Euro 5,000.- after 3 Olympic cycles

All fines will be credited to the FIG Development Fund.
VI. Appeal against Sanctions

- Warnings decided by the FIG Secretary General:

  The Apparatus Manufacturers may make an appeal against decisions of the Secretary General to the FIG Disciplinary Commission.

  No further appeal is possible. The decision of the FIG Disciplinary Commission is final.

- Decisions taken by the FIG Secretary General for concerning infractions during an FIG event:

  The Apparatus Manufacturers may make an appeal against decisions and actions taken by of the Secretary General to the Jury of Appeal of the respective competition.

  No further appeal is possible. The decision of the Jury of Appeal is final.

- Sanctions decided by the FIG Disciplinary Commission

  The Apparatus Manufacturers may make an appeal against the decision taken by the FIG Disciplinary Commission as follows:

    instance of appeal: FIG Appeal Tribunal

  Appeals must be made in writing within 21 days and sent to the President of the instance concerned with a copy to the FIG Secretary General.

  Depending on the outcome of the appeal, the Disciplinary Commission and the Appeal Tribunal will decide who has to bear the costs.

  The procedures and costs for appeals to the Disciplinary Commission and the FIG Appeal Tribunal are ruled in the FIG Code of Discipline.

VII. Rules for the distribution of the Letter of Recognition

- FIG Letter of Recognition to be given to the official manufactures for the excellence of their work.

- A special FIG diploma will be given to the official supplier of 3 World Championships in 2 Olympic cycles.

- A special recognition FIG plate is to be attributed for service rendered to the development of gymnastics in the capacity of FIG partner and for the good relations with the other manufactures.
## Appendix 6
### Intermediate Rules

| Intermediate Rules re. | 01.01.2014 | 24 |
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