



**Dear Sir / Madame,**

We thank you for your inquiry concerning FIVB homologation.

**We draw your attention to the fact that only ball producers (manufacturers) can submit a request for ball homologation.** We are pleased to enclose our Terms & Conditions for Homologation of ball as well as an Application Form (H1).

If you are interested to submit your product, you have to send us the form H1 duly completed with a letter of recommendation from the National Volleyball Federation of the country, where the ball is produced; if the company and production line are not located in the same country, we need also a recommendation letter from the National Federation. We would also like to point out that the FIVB only homologates a specific brand name and never company's products in general.

As soon as we receive your payment of CHF 4,000. - (test fees) on our account number:

BIC Code (SWIFT Address): UBSWCHZH8OA  
Bank Address:

UBS AG  
Place St-François 16  
Case postale  
CH-1002 Lausanne  
Switzerland

Bank clearing: 0243

ACCOUNT:  
Account CHF: 0243-146146.01K - IBAN: CH710024324314614601K

**Remark: Ball test**

The application form H1 duly completed and the recommendation letters, we will send you the addresses of our testers and laboratories where manufacturer will have to send 34 balls as indicated in the list.

A homologation agreement with your company will be signed by the FIVB, once the final reports of the tests have been received by the Technical department approving the homologation of your ball (about 3 months).

Please do not hesitate to contact us if you have any further queries.

***With best regards,  
Federation Internationale De Volleyball***

***Helgi THORSTEINSSON,  
TECHNICAL DIRECTOR  
[technical@fivb.org](mailto:technical@fivb.org)***

*Encl.: Terms and conditions  
Application form H1  
Standards for volleyballs*

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HOMOLOGATION PROCEDURE  
FOR MANUFACTURERS  
FOR  
VOLLEYBALL BALLS

FIVB WORLD, CONTINENTAL & HIGH LEVEL  
NATIONAL VOLLEYBALL & BEACH VOLLEYBALL  
COMPETITIONS

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# FIVB HOMOLOGATION PROCEDURE VOLLEYBALL BALLS

## SUMMARY

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**TERMS AND CONDITIONS**  
**FOR FIVB HOMOLOGATION (APPROVAL)**  
**BALLS TO BE USED IN OFFICIAL VOLLEYBALL COMPETITIONS**

## TERMS AND CONDITIONS FOR FIVB HOMOLOGATION (APPROVAL) BALLS TO BE USED IN OFFICIAL VOLLEYBALL COMPETITIONS

Any **manufacturer** of Volleyball balls, wishing to obtain a world-wide valid certificate of official homologation for one or more of its products under official FIVB standards and quality controls may proceed as follows:

1. A duly completed application (FIVB form H 1) must be sent to:

Fédération Internationale de Volleyball  
Eduoard-Sandoz 2-4 – 1006 Lausanne SWITZERLAND  
Telephone: +41 (21) 345 35 35 - Fax: +41 (21) 345 35 45  
Attention: Mr. Helgi THORSTEINSSON, Technical Director

2. The following documents must be attached to the application form:

2.1 **For a ball manufacturer**, a letter of recommendation, signed by the National Volleyball Association of its country, stating that the ball proposed has been successfully used in local Volleyball tournaments organized by the Association. **If the production line and the company are not located in the same country, the manufacturer must also provide a letter of recommendation of the National Volleyball Association of the country where the factory is located. Each manufacturer can only produce one specific brand to be homologated by the FIVB.**

2.2 A copy of bank transfer order for the fixed amount for testing and laboratory fees for **each ball type** as follows:

**For balls - CHF. 4,000.- (four thousand Swiss Francs).**

Payments must be made to FIVB account:  
ACCOUNT CHF: 0243-146146.01K - IBAN: CH710024324314614601K  
UBS AG, Place St-François 16  
Case postale, CH-1002 Lausanne  
Switzerland

3. Once the documents and payment have been received in Lausanne, the Technical Department proceeds as follows:

3.1 The **manufacturer** of the balls will be forwarded a list of names and addresses of the persons and laboratories, to which he must submit the balls (max.20) to be tested.

3.2 The manufacturer will be informed that he is obliged to send the **“test balls”** free of charge and duties, (air freight, insurance) stating in all documents **“SAMPLES WITH NO COMMERCIAL VALUE”**.

4. Once the test is completed:

4.1 The Technical department will request to receive the reports from the testers and the results from the laboratories.

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4.2 If the tests prove that the products **do not** meet FIVB standards:

- a) The manufacturer will be informed on the test results.
- b) The Technical Department will inform the manufacturer that a second application is acceptable within the ensuing 12 months, with no test charge. *When the required improvements have been made* the manufacturer must send a new collection to be tested.
- c) After a 12-month delay, a new application is required with new payment for testing and laboratory fees.

4.3 **If the tests prove satisfactory:**

- a) When the product has been approved by the Board of Administration, the manufacturer proceeds to sign a maximum four-year contract with the FIVB for the official approval of its product.
- b) When the contract has been signed and the first yearly fee has been paid, the FIVB will issue a **CERTIFICATE OF OFFICIAL HOMOLOGATION** for each product approved.
- c) Together with the certificate the manufacturer will receive a model of the **Official FIVB Approved seal** with instructions for stamping or printing it on each unit of the approved product.

5. Ball manufacturers are obliged to obtain certificate for each type of ball they intend to market with the FIVB seal for approval. The types of ball subject to approval are :

**FIVB Approved balls:**

Size 5, 8 -18 panels, senior Volleyball (color) synthetic: CHF. 60,000 per year  
Size 5, 10 -18 panels, senior Beach Volleyball (color): CHF. 40,000 per year

**FIVB Inspected balls:**

Size 5, 8 -18 panels, senior Volleyball (color) synthetic: CHF. 12,500 per year

5.1 **FIVB Tested balls:**

Size 5, Volleyball (color) synthetic:  
Balls tested for FIVB standards. No stamps applied but direct cost for the tests applicable.

6. Upon signature of the contract: **The manufacturer** will be authorized to stamp or print its name or logo on each of the approved balls.

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The following dimensions must not be exceeded:

**Balls: height of letters 2.5cm x length of make 12 cm (30 sq. cm)**

7. The FIVB logo may be printed or stamped once on each of the approved products, no less than 3 x 3 cm in size on balls and in proportion to the manufacturer's logo on other products. It should always be placed below and centrally to the manufacturer's name or logo strictly in accordance with the design and measurements provided by the FIVB.
8. Contact details for the FIVB Testing laboratory in Switzerland:

EMPA  
Materials Science & Technology  
Mr. Ivo RECHSTEINER  
Lerchenfeldstrasse 5  
ST. GALLEN 9014  
Switzerland

Tel: + 41 (71) 274 77 79  
Fax: + 41 (71) 274 77 62  
E-mail: [ivo.rechsteiner@empa.ch](mailto:ivo.rechsteiner@empa.ch)  
Website: [www.empa.ch](http://www.empa.ch)

9. FIVB active testers.

Information provided individually after the laboratory tests have been conducted.

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**FEDERATION INTERNATIONALE DE VOLLEYBALL H-1**  
**APPLICATION FORM FOR THE OFFICIAL HOMOLOGATION OF BALLS,**  
**UNIFORMS, SPORTS MATERIAL AND EQUIPMENT**  
 (only for manufacturer)

Manufacturer's name : \_\_\_\_\_

Address : \_\_\_\_\_

Country : \_\_\_\_\_ Tel. : \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail \_\_\_\_\_

**PRODUCT IDENTIFICATION**  
 (to be completed only by the manufacturer)

- |                    |                                       |  |                                      |
|--------------------|---------------------------------------|--|--------------------------------------|
| <b>A. Category</b> | <b>Balls, type of :</b>               | <b>Equipment, type of :</b>                |                                      |
|                    | <input type="checkbox"/> Indoor       | <input type="checkbox"/> Posts + Post Pads | <input type="checkbox"/> Shoes       |
|                    | <input type="checkbox"/> Beach        | <input type="checkbox"/> Net + Antennae    | <input type="checkbox"/> Uniforms    |
|                    | <input type="checkbox"/> School Mini  | <input type="checkbox"/> Referees' Stand   | <input type="checkbox"/> Floor cover |
|                    | <input type="checkbox"/> Club Mini    | <input type="checkbox"/> Scoreboard        |                                      |
|                    | <input type="checkbox"/> Recreational |  |                                      |

**B. Brand name :** \_\_\_\_\_

**C. Catalogue identification :** \_\_\_\_\_

**D. Other useful information :** \_\_\_\_\_

**Units produced per year :** \_\_\_\_\_ **Price per unit approx. US\$** \_\_\_\_\_

- National     Continental     Worldwide

*We, the undersigned, certify that we are the owners of the brand name of the product and that we intend to execute a max. 4 year contract with the FIVB for our product(s) recognition under FIVB standards.*

Manufacturer : \_\_\_\_\_  
 (signature and stamp)

Date : \_\_\_\_\_  
 (Day - Month - Year)

**Reception dates of : (for FIVB use only)**

Application : \_\_\_\_\_  
 Samples : \_\_\_\_\_  
 Lab payment : \_\_\_\_\_  
 1st lab. result : \_\_\_\_\_  
 2nd lab result : \_\_\_\_\_  
 Board approval : \_\_\_\_\_

**FIVB Signatures of approval**

\_\_\_\_\_  
 Technical Commission President

\_\_\_\_\_  
 FIVB Manager

\_\_\_\_\_  
 FIVB President



## FIVB COMPETITION COLOR VOLLEYBALL (INDOOR)

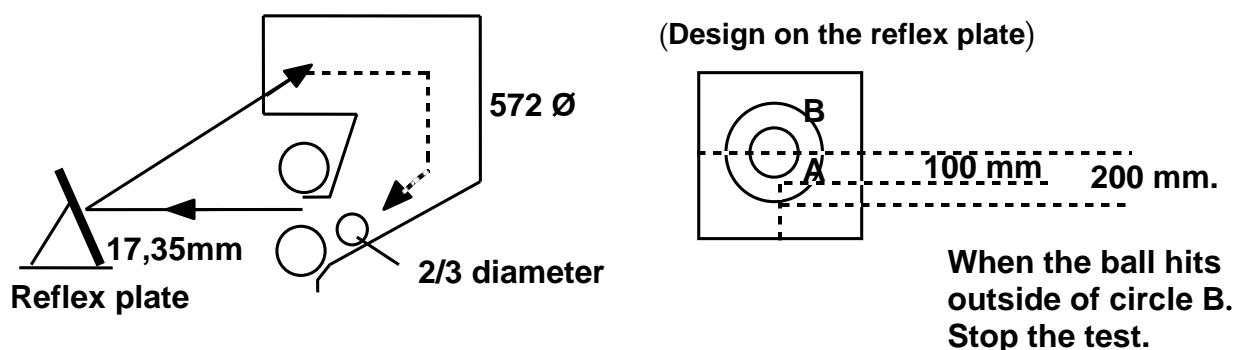
### LABORATORY REQUIREMENTS AND BALL STANDARDS FOR THE APPROVAL OF SYNTHETIC COLOR INDOOR VOLLEYBALL

1. Temperature in the laboratory: 20 – 25 degrees centigrade (20° - 25°C)
2. Minimum standard and range of test results.

#### 2.1 **Ball size 5 for seniors Synthetic color indoor Volleyball:**

- A) Material: Synthetic leather (*Non-woven fabric + PU*).
- B) Number of Panels: Minimum 8 – Maximum 18
- C) Colors: Combination of: Min. 2 – Max. 3 colors\*\*(*Ultra fine fiber structure*).
- D) Weight: 270 g ± 10 g.
- E) Circumference: 66.0 ± 1.0 cm.
- F) Impact power from 1 m height on Kistler Force Plate:  
*Range (387.5 – 402.5 N).*
- G) Height of rebound from 1 m height on Kistler Force Plate:  
*Range (60.0 - 66.0 cm.)*
- H) Endurance test in Endurance Test Machine :  
Minimum number of times: Min. 10,000 repetitions at speed 50 km/h
- I) Pressure in the ball; 0.30 – 0.325 kg/cm<sup>2</sup> or 294.3 – 318.82 m. bar or hPa.
- J) Contact time: 8 +/- 0.5 ms
  
- K) **Detection of use of banned Azo Colorants\*\*:**  
Banned azo colorants are such colorants that may form one of the following amines of class MAK III A1 and MAK III A2 splitting up one or more azo groups.  
Detection limit: 5 ppm.
- L) Test for Pentachlorophenol (PCP) and Tetrachlorophenol (TeCP)  
(Test method according to DIN 53313) – No detection allowed

3. Diagram on design of the reflex plate and how endurance test is completed:



## FIVB Official Colored Synthetic Volleyball ball Indoor

### MIKASA MVA200

**Panel and color construction:**

Pantone colors: Blue 072C

Yellow: Yellow 012C

### OFFICIAL FIVB GAME BALL INDOOR

**Front side**



**Back side**



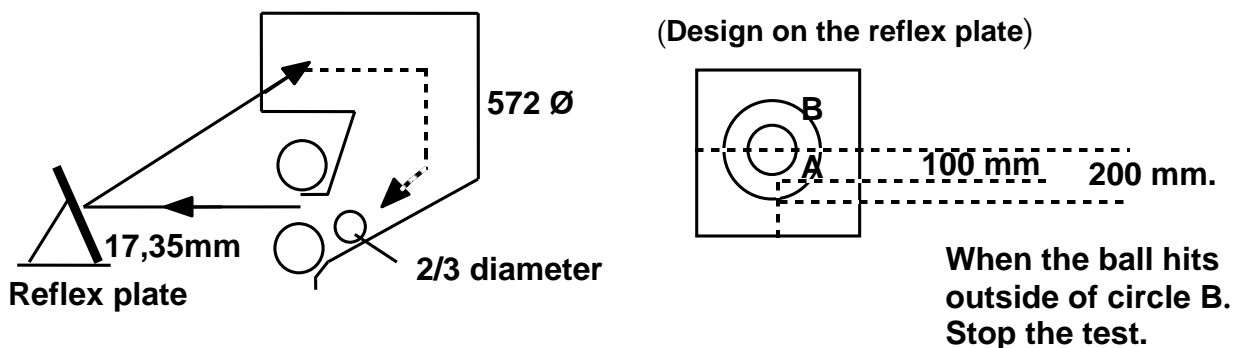
The patterns are registered by Mikasa Corporation and cannot be used.

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## FIVB COMPETITION COLOR VOLLEYBALL (BEACH)

### LABORATORY REQUIREMENTS AND BALL STANDARDS FOR THE APPROVAL OF BEACH VOLLEYBALL BALLS

1. Temperature in the laboratory: 20 – 25 degrees centigrade (20° -25° C)
2. Minimum standard and range of test results.
- 2.1 **Balls size 5, BEACH Volleyball, flexible material\* (leather or similar), 10 to 18 panels:**
  - A) Material: Man-made leather (*Non-woven fabric + PU*).
  - B) Colors: **3 colors\*\***.
  - C) Weight: 270 g ± 10 g.
  - D) Circumference: 67.0 ± 1.0 cm
  - E) Impact power from 1 m height on Kistler Force Plate:  
*Range (290 – 360 N).*
  - F) Height of rebound from 1 m height on Kistler Force Plate:  
*Range (53.0 - 61.0 cm.)*  
Endurance test in Endurance Test Machine:  
Minimum number of times: Min. 5,000 repetitions at speed 50 km/h.  
Pressure in the ball; 0.225 kg/cm<sup>2</sup> or 221 M. bar or hPa.  
Loss of pressure ≤10% and sphericity required ≤ 1.5%
  - I) **Detection of use of Banned Azo Colorants\*:**  
Banned azo colorants are such colorants that may form one of the following:  
Amines of class MAK III A1 and MAK III A2 splitting up one or more azo groups.  
Detection limit: 5 ppm.
  - J) *Test for Pentachlorophenol (PCP) and Tetrachlorphenol (TeCP)*  
*Test method according to DIN 53313) - No Detection allowed*
3. Diagram on design of the reflex plate and how endurance test is completed:



## FIVB Official Colored Synthetic Beach Volleyball

### Mikasa VLS 300

Colors FIVB Official Volleyball ball:

Pantone colors: Blue 072C, Yellow 012C and White

### FIVB GAME BALL BEACH VOLLEYBALL PATTERN

Front side



Back side



Panel color combination **and panel construction are shown** on the picture above.

**The patterns are registered by Mikasa Corporation and cannot be used.**

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## FIVB REGISTERED TRADEMARK AND OFFICIAL COLORS

The FIVB™, Federation Internationale de Volleyball (Switzerland non-profit organization) and its corporate logo are registered trademarks. The use of the FIVB logo and the below approval stamps is strictly prohibited unless by the authorization of the FIVB.



 33% Pantone 2995 CVU

### FIVB OFFICIAL APPROVED STAMP



### FIVB INSPECTED STAMP

