

## **Manufacturer Certification System Report**

### **1. Introduction**

- 1.1 The 2025-2028 Olympic Quad started with the launch of the Manufacturer Certification System (MCS), a program which aims to ensure that all Olympic equipment meets World Sailing's quality, traceability, and design standards as these are developed and implemented.
- 1.2 The MCS represents an important step forward for the governance of Olympic equipment, it relies on two main activities:
  - (a) Audits to Manufacturers against the requirements of the MCS (based on the ISO 9001:2015) to check that they consistently produce equipment items that meet the defined quality standards
  - (b) Inspections at Events to assess that equipment used meets the defined building specifications.
- 1.3 Considering the structure of the Olympic Quad, World Sailing's Technical team, who manage the programme, is focusing on auditing Manufacturers during the first two years of the Quad, with the intention to use the second half of the Quad to focus on assessing supplied equipment and performing inspections at events. The current focus is on the following priorities:
  - (a) 2025: Audit manufacturers, documenting their certification process and compiling building specifications. During this year World Sailing has audited all the IKA Formula Kite manufacturers before the deadline to grant the licenses to build Olympic equipment by December 2025.
  - (b) 2026: Auditing manufacturers will still be the main part of the MCS, expanding to cover a wider range of Olympic classes. World Sailing will start focusing on event inspections to test the inspection protocols for equipment produced in collaboration with the audited manufacturers.
  - (c) 2027: The auditing activities will continue but the focus will shift to event inspections at main events such as: WS World Championships (Single and Double handed), LA2028 Test Event and Continental Championships. During this year the selection of manufacturers for LA2028 Supplied Equipment will be managed and the selected manufacturers will be audited.
  - (d) 2028: In preparation for the LA2028 Olympic Games, the focus will be in event inspections (LA2028, Worlds, Continentals and Olympic Qualifiers) and Supplied Equipment auditing.

## 2. Audit Plan (2025-2028)

- 2.1 In this section an overview of the audit plan for the entire Olympic Quad is presented. This list is intended as a guiding reference and may be updated to reflect changes in priorities or to address unique cases.
- 2.2 ILCA Manufacturers that are selected for LA2028 Supplied Equipment will be added to the list once the selection process starts. ILCA Manufacturers are audited annually by the ILCA Technical Team. Their reports are made available to World Sailing's technical team upon request.
- 2.3 Equipment & Manufacturers Baseline:
- (a) Total Manufacturers included under the MCS: 33
  - (b) 9 Manufacturers Audited in 2025 by WS: 9 out of 33 (27%)
  - (c) 8 Manufacturers Audited by WS by end of 2026: 17 out of 33 (52%)
  - (d) Manufacturers Audited by WS by end of 2027: the list will be defined in 2026

| Manufacturer                        | Brand              | Class           | Equipment      | Status           |
|-------------------------------------|--------------------|-----------------|----------------|------------------|
| Aqua Dynamics PVT LTD               | North Kiteboarding | Formula Kite    | Sail           | Audited in 2025  |
| Chubanga Srl                        | Chubanga           | Formula Kite    | Hull Appendage | Audited in 2025  |
| Geislinger GmbH                     | LEVITAZ            | Formula Kite    | Hull Appendage | Audited in 2025  |
| NELO M.A.R. Kayaks, Lda.            | Flying Sardine     | Formula Kite    | Hull Appendage | Audited in 2025  |
| North Manufacturing (PVT) LTD       | North              | ILCA, 49er & FX | Sail           | In Scope in 2025 |
| PARAPEX Co., Ltd                    | Ozone              | Formula Kite    | Sail           | Audited in 2025  |
| Qingdao DingMingJin Gliders Co.,Ltd | Element            | Formula Kite    | Sail           | Audited in 2025  |
| RAM-Skywalk GmbH&CoKG               | Flysurfer          | Formula Kite    | Sail           | Audited in 2025  |
| Weihai Julia Sport Product Co. LTD  | Italica, Patrik    | iQFOiL          | Rig            | Audited in 2025  |
| CST Marine                          | CST Marine         | ILCA, 49er & FX | Rig            | In Scope in 2026 |
| Hyde Sails Cebu Inc.                | Hyde Sails         | ILCA            | Sail           | In Scope in 2026 |
| IK Pacific LTD                      | Severne, Patrik    | iQFOiL          | Sail           | In Scope in 2026 |

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| Mackay Boats LTD                    | Mackay Boats        | 49er & FX       | Hull, Hull Appendage, Rig | In Scope in 2026        |
|-------------------------------------|---------------------|-----------------|---------------------------|-------------------------|
| Ovington Boats LTD                  | Ovington Boats      | ILCA, 49er & FX | Hull, Hull Appendage, Rig | In Scope in 2026        |
| Hall Spars and Rigging              | Hall Spars          | Nacra 17        | Rig                       | In Scope in 2026        |
| Manufacturer                        | Brand               | Class           | Equipment                 | Status                  |
| Nacra Sailing                       | Nacra Sailing       | Nacra 17        | Hull, Hull Appendage, Rig | In Scope in 2026        |
| Performance Sails B.V.              | Performance Sails   | Nacra 17        | Sail                      | In Scope in 2026        |
| Sonic Composite (HuBei) Co. LTD     | Starboard, Patrik   | iQFOiL          | Hull Appendage            | In Scope in 2027        |
| Cobra International Co. LTD         | Starboard, Patrik   | iQFOiL          | Hull                      | In Scope in 2027        |
| Element 6 Evolution Co. LTD         | Element 6 Evolution | ILCA, Nacra 17  | Hull, Hull Appendage, Rig | In Scope in 2027        |
| JIELI Sports Goods                  | JIELI               | ILCA, 49er      | Sail                      | In Scope in 2027        |
| Nautivela Srl                       | Nautivela           | ILCA            | Hull                      | TBD for LA2028 Sup. Eq. |
| Devoti Sailing s.r.o                | Devoti Sailing      | ILCA            | Hull, Hull Appendage      | TBD for LA2028 Sup. Eq. |
| Far East Boats                      | Far East Boats      | ILCA            | Hull                      | TBD for LA2028 Sup. Eq. |
| Performance Sailcraft Australia     | PSA                 | ILCA            | Hull                      | TBD for LA2028 Sup. Eq. |
| Performance Sailcraft Japan         | PSJ                 | ILCA            | Hull                      | TBD for LA2028 Sup. Eq. |
| Qingdao Zou Inter Marine Co. LTD    | Zou Marine          | ILCA            | Hull                      | TBD for LA2028 Sup. Eq. |
| Rio Tecna Srl                       | Rio Tecna           | ILCA            | Hull, Hull Appendage      | TBD for LA2028 Sup. Eq. |
| Selden Masts AB                     | Selden Masts UK     | ILCA            | Rig                       | TBD for LA2028 Sup. Eq. |
| Selden Masts Inc                    | Selden Masts USA    | ILCA            | Rig                       | TBD for LA2028 Sup. Eq. |
| Technocar-MC-2003 Kft               | Technocar           | ILCA            | Rig                       | TBD for LA2028 Sup. Eq. |
| XSP Xtreme Sailing Products Pte LTD | XSP                 | ILCA            | Hull Appendage            | TBD for LA2028 Sup. Eq. |
| ZIM Sailing                         | ZIM                 | ILCA            | Hull                      | TBD for LA2028 Sup. Eq. |

### 3. Feedback from Manufacturers & Lessons Learned during the Auditing Period

3.1 In this section the list of feedback from the Manufacturers and Lessons Learned gathered while running the MCS is listed. IKA Formula Kite was the main focus of the 2025 for the MCS due to the fact that World Sailing will be granting the license to build Olympic equipment to these manufacturers by December 2025. Focus on the 49er, FX, ILCA 6, ILCA 7, iQFOiL and Nacra 17 will be in 2026 and 2027.

#### 3.2 Class: IKA Formula Kite, Equipment Item: Kites

- (a) **Registered Design:** Some manufacturers propose to restrict the materials that can be used in order to reduce the costs of the equipment and increase the lifespan of kites. Some examples could be minimum values for g/cm<sup>2</sup>, minimum diameter for lines.
- (b) **Measurement Conditions:** Some manufacturers claim that defining the conditions for measuring kites would be necessary to guarantee fairness during audits and event inspections. It was stated that temperatures and humidity may cause deviations of measurements since the material used to manufacture the kites is very sensible to these parameters.
- (c) **Certification Process:** World Sailing Technical team proposes to define the same number of measurements for each kite model and that the tools to measure the kites be the same across different manufacturers.

#### 3.3 Class: IKA Formula Kite, Equipment Item: Hydrofoil Systems

- (a) **Registered Design:** Some Manufacturers propose to restrict the material that can be used to manufacture the foils for safety reasons. An example could be not allowing to manufacture wings and masts made of metal which may be heavy and with very sharp trailing edges.
- (b) **Certification Process:** World Sailing Technical team proposes to mandate Torsion and Flexion test of both foil mast and wings as mandatory to certify the equipment items for all manufacturers.

#### 3.4 Class: IKA Formula Kite, General Consideration on the Registration Process

- (a) **Testing Phase:** The registration system currently does not include a time window to allow manufacturers to request changes to the models registered. WS Policy D11 define a process to manage Building Specification Changes within the Olympic Quad if specific conditions are met. The Class registration system should note that the manufacturers may ask for changes following WS Policy D11. This observation is linked to the experience currently under discussion of equipment structural failure during the 1st year of the Olympic Quad. The changes in design of both Kites and Hydrofoil System can generate unpredictable loads on the equipment leading to breakages.

### 4. Compliance with MCS Requirements

4.1 The below tables summarise the level of compliance with the MCS requirements both at the time of the audit and after the audit. It is important to note that since it is the first time the Manufacturers are audited against the World Sailing MCS many gaps are founded during the audits. To date the collaboration with the Manufacturers during the audits and the follow ups communications allowed us to fill in most of the gaps, some Manufacturers are still compiling the required information to fully comply with the system.

## February 2025

| RAM (Flysurfer)   |                    |                      |
|-------------------|--------------------|----------------------|
| Area              | Compliance (Audit) | Compliance (To Date) |
| Organization      | 100%               | 100%                 |
| Registered Design | 50%                | 85%                  |
| Traceability      | 100%               | 100%                 |
| Process & Tooling | 50%                | 75%                  |
| Non-Conformities  | 33%                | 66%                  |

| PARAPEX (Ozone)   |                    |                      |
|-------------------|--------------------|----------------------|
| Area              | Compliance (Audit) | Compliance (To Date) |
| Organization      | 100%               | 100%                 |
| Registered Design | 50%                | 100%                 |
| Traceability      | 100%               | 100%                 |
| Process & Tooling | 50%                | 100%                 |
| Non-Conformities  | 66%                | 100%                 |

## May 2025

| Chubanga (Chubanga) |                    |                      |
|---------------------|--------------------|----------------------|
| Area                | Compliance (Audit) | Compliance (To Date) |
| Organization        | 50%                | 100%                 |
| Registered Design   | 33%                | 100%                 |
| Traceability        | 50%                | 100%                 |
| Process & Tooling   | 80%                | 100%                 |
| Non-Conformities    | 33%                | 100%                 |

## July 2025

| Aqua Dynamics (North Kiteboarding) |                    |                      |
|------------------------------------|--------------------|----------------------|
| Area                               | Compliance (Audit) | Compliance (To Date) |
| Organization                       | 100%               | 100%                 |
| Registered Design                  | 67%                | 100%                 |
| Traceability                       | 100%               | 100%                 |
| Process & Tooling                  | 100%               | 100%                 |
| Non-Conformities                   | 100%               | 100%                 |

## August 2025

| Qingdao DingMingJin Gliders (Element) |                    |                      |
|---------------------------------------|--------------------|----------------------|
| Area                                  | Compliance (Audit) | Compliance (To Date) |
| Organization                          | 100%               | 100%                 |
| Registered Design                     | 60%                | 100%                 |
| Traceability                          | 100%               | 100%                 |
| Process & Tooling                     | 60%                | 100%                 |
| Non-Conformities                      | 100%               | 100%                 |

| Weihai Julia Sport Product (Severne & Patrik) |                    |                      |
|-----------------------------------------------|--------------------|----------------------|
| Area                                          | Compliance (Audit) | Compliance (To Date) |
| Organization                                  | 100%               | 100%                 |
| Registered Design                             | 40%                | 80%                  |
| Traceability                                  | 100%               | 100%                 |
| Process & Tooling                             | 40%                | 90%                  |
| Non-Conformities                              | 40%                | 50%                  |

## September 2025

| Geislinger (Levitaz) |                    |                      |
|----------------------|--------------------|----------------------|
| Area                 | Compliance (Audit) | Compliance (To Date) |
| Organization         | 100%               | 100%                 |
| Registered Design    | 50%                | 100%                 |
| Traceability         | 100%               | 100%                 |

|                   |      |      |
|-------------------|------|------|
| Process & Tooling | 83%  | 83%  |
| Non-Conformities  | 100% | 100% |

## October 2025

| NELO (Flying Sardine) |                    |                      |
|-----------------------|--------------------|----------------------|
| Area                  | Compliance (Audit) | Compliance (To Date) |
| Organization          | 100%               | 100%                 |
| Registered Design     | 40%                | 40%                  |
| Traceability          | 75%                | 75%                  |
| Process & Tooling     | 60%                | 60%                  |
| Non-Conformities      | 100%               | 100%                 |

## 5. Recommendations

- 5.1 To note the 2026 audit plan the for the Olympic manufacturers listed in 2.3.
- 5.2 To discuss the IKA Formula Kite Registration Process regarding a testing phase and building specifications changes (WS Policy D11).
- 5.3 To note that for the Olympic Quad 2029-2032 different Kite models shall have the same number of measurements and that the tools to measure the Kites shall be the same, or as similar as possible, across different manufacturers.
- 5.4 To note that Torsion and Flexion test of both Foil Masts and Wings will be introduced as requirement to certify the equipment items for all Hydrofoil manufacturers.