

International 2.4mR Class Association, Technical Committee

$$R = (L + 2d - F + \sqrt{S}) / 2.37 = 2.4$$


2.4mR TC MEETING 17 December 2025

Present

Peter Russell (AUS)
Bruce Millar (CAN)
Thomas Jatsch (GER)
Jon Bjorklund (NOR)

Apologies

Rikard Bjurstrom (FIN)
Stellan Berlin (SWE)
Jon Bjorklund (NOR)
IM Keith Gordon (GBR)

General Business

1. Norway Official Measurer Training Program
2025.12.17 2.4mR Official Measurer training video production in conjunction with training program not possible, clear vision and explanation of measurement steps not obtainable from video – separate setup with Official Measurer and videographer required, Alesund preferred venue (workshop and tank available) – use of 3 laser system for baselines noted.
2025.12.17 Jon Bjorklund to obtain measurement sketches and forward for Peter Russell to update Measurement Manual.
2. 2.4 NOD Certificate Procedures Review
2025.12.17. 2.4 NOD certificates on ICA website access and certification procedures review ongoing. Information management is key issue – 2.4mR, 2.4 NOD & boat serial number photo record required to identify boats.
3. 2.4 NOD Super 3 Update
2025.12.17 Keith Gordon confirmed Super 3 2.4mR & 2.4 NOD boat construction transferred to David Heritage Racing Yachts due to Brian Harding ongoing health concerns. We note Brian Harding invaluable commitment to the 2.4mR class with new boats keeping fleets alive. EC to transfer 2.4 NOD Accredited Builder Agreement to David Heritage Racing Yachts.
4. 2.4 NOD Ontario Yachts Update
2025.12.17 2.4 NOD Accredited Builder agreement executed by ICA and Ontario Yachts 11 February 2025. Ontario Yachts 2.4 NOD laminate design approved 16 January 2025. Ontario Yachts 2.4 NOD mould approval subject to prototype boat No. 1 measurement scheduled for January 2026. Fundamental measurement team IMs David Sprague, David Foscari & Billy Abbott. Limited mould flanges may require new mould construction at future date. Pricing and marketing documentation underway - boats to be batch produced for sale. 2.4 NOD Prototype boat No. 1 completed and launched for trial sail 18 December 2025. 2.4 NOD prototype boat No. 2 moulded and fitout underway in preparation for sea trials in early 2026.
2.4 NOD Prototype boat No. 1 Preliminary Measurement Data
 - ❖ Boat weight 253.6 kg with 181kg ballast and 2kg corrector weight
 - ❖ Machined foam
 - ❖ Watercut lead ballast
 - ❖ Superspar rig
 - ❖ Buoyancy check passed (deck level significantly above water level)TC agreed 2.4 NOD mould options (subject to purchaser agreement) as follows:
 - ❖ traveller track recess, headsail boom fitting, cockpit headsail sheet mountingsTC key 2.4 NOD boat build issues:
 - ❖ measurement control, weight control, hull/keel stiffness control, chainplate deflection control, lifting eye weight capacity, cockpit mould front straight (not rounded), ballast lifter and keel plug fixings to be metric (not imperial).

5. **Linked4sailing 2.4mR Builder Accreditation**
2025.12.17 No further contact with Linked4sailing.
6. **Spain 2.4mR Builder Accreditation**
2025.12.07 No response to request for accreditation submission received to date.
7. **2.4mR World Championship 2026**
2025.07.11 Peter Russell issued NOR advice and associated documents to 2.4mR World Championship 2026 Organising Authority – The Royal Water Sports Association: Koninklijke Watersport Vereniging Sneek (KWS), Klaas Weissenbach, Frank Havik,
 - ❖ 2.4mR WORLD CHAMPIONSHIP SNEEK 2026 TC NOR ADVICE v. 03
 - ❖ 2.4mR World & Continental Championship Management Manual 2024 (v. 11)
 - ❖ 2.4mR WORLD CHAMPIONSHIP INSPECTION PLAN 2024
 - ❖ 2.4mR WORLD CHAMPIONSHIP NETHERLANDS 2017 NOR
 - ❖ 2.4mR WORLD CHAMPIONSHIP FINLAND 2023 NOR
 - ❖ 2.4mR WORLD CHAMPIONSHIP ITALY 2025 NOR

2025.09.03 2.4mR World Championship 2026 date has been added to ICA website as follows:
2.4mR World Championship 2026 - 07.07.2026 – 12.07.2026 - Koninklijke Watersportvereniging Sneek (KWS), Kolmarslân 1, 8626 GD Offingawier, The Netherlands.

2025.12.10 The 2.4mR TC has worked with the 2.4mR World Championship 2026 Organising Authority to finalise the NOR and recommended the EC to approve *NOR WK 2.4mR final3*.

 - ❖ TC notes that «*NOR 20.2 Keelboats shall not be cleaned below the waterline by any means during the event*» is in accordance with World Sailing guidance - the Organizing Authority will look at implementing a cleaning station if hulls become marked with scum affecting video production messaging.
 - ❖ TC notes that the NOR specifies wire transfer entry payment – the Organising Authority will assist competitors if this is a problem.
 - ❖ TC notes that there is a geographic event limit which may require split fleets – the Organising Authority will liaise with the 2.4mR ICA to confirm the fleet split when entry numbers are confirmed.

2025.12.16 Updated SI template issued to 2.4mR World Championship 2026 Organising Authority.
8. **Measurer Accreditation**
2025.12.17 International Measurer - Thomas Jatsch providing ongoing assistance for World Sailing events in 2.4mR, Hansa and RS Venture classes – IM accreditation subject to ongoing discussion with World Sailing.
9. **Safety Advice**
2025.12.17 Thomas Jatsch draft safety training advice issued for review – Thomas to source missing photos and include race support training notes.
10. **2.4 NOD Boat Beam Dimensions Review**
2025.12.17 Bruce Millar advised 13 2.4 NOD boats measured April 2025 – beam discrepancies of boats manufactured 1999-2007 with 2.4 NOD section J.1 Dimensions tolerances scheduled as follows. Bruce Millar to check discrepancies - TC to consider endorsement as 2.4 NOD boats with discrepancies noted on **certificate**.

Victoria BC / Toronto ON Spring Summer 2025

NOD Boats Measured

Hull Templates put on all boats at Sections, 0, 2, 4 and were within tolerances.

All boats out of Specifications will be rechecked to verify

Boat #	Year	Builder	Section 0	Section 2	Section 4	Notes
266	1999	Metre Boats	OK	+7mm	+14mm	AUS boat, To be rechecked
326	2001	Bjorndahl	-4mm	OK	OK	To be rechecked
329	2001	Bjorndahl	OK	OK	OK	OK
442	2003	Gavia	-2mm	-10mm	OK	To be rechecked
488	2006	Gavia	OK	-4mm	OK	To be rechecked
497	2006	Gavia	-9mm	-4mm	+4mm	To be rechecked
552	2007	Charger C.	-3mm	OK	OK	To be rechecked
554	2007	Charger C.	OK	OK	OK	OK
715	2010	Charger C.	OK	OK	OK	OK
728	2011	Charger T.	OK	OK	OK	OK
765	2011	Charger T.	OK	OK	OK	OK
959	2016	Charger T.	OK	OK	OK	OK
979	2017	Charger T.	OK	OK	OK	OK
1027	2020	Charger T.	OK	OK	OK	OK

11. 2.4mR Waterline Declaration Review

2025.12.17 Updated 2.4mR Waterline Declaration Form approved by TC for website publication.
2.4mR class rule on Waterline Declaration D.6.1 (c) subject to ongoing review.

- ❖ Consider tank and «still water» for waterline measurement.
- ❖ Consider deletion of waterline measurement form – declaration on measurent form only.
- ❖ Consider no waterline check for production boats following propotype approval should not require waterline verification – modified boats, one-off boats and boats with lost paperwork will require waterline verification.

2.4mR Class Rules

D.6.1 GENERAL

- (c) The waterline shall be controlled by placing the boat in a water tank and loading it according to H.2. The official measurer shall issue a declaration or state on the measurement form that the correct procedure was followed.

12. 2.4mR Builder Declaration Review

2025.12.17 Updated 2.4mR Builder Declaration Form approved by TC for website publication.

2.4mR Class Rules

D.3.2 CONSTRUCTION

- (c) For boats initially certified after the 3rd June 2013, the builder shall issue a manufacturer's declaration certifying the compliance with rules D.3.1 (a) and D.3.2 (a) and (b), using the ICA Builders Declaration Form.

13. Norway Submission

2025.12.17 TC response to Norway Technical Committee (Haavard Haktor Holstad & Harald Rolfness) 2.4mR class rule amendment proposal dated October 2025 follows:

The Norwegian Technical Committee (Haavard Haktor Holstad & Harald Rolfness) have submitted a 2.4mR class rule amendment proposal dated October 2025.

Thwart Materials (thwart names include cleat board, dashboard, control panel, piano)

In principle we understand that the submission proposes a class rule change to exclude the thwart from the ERS **hull** definition so that it can be made of any material.

World Sailing have advised regarding the use of ERS bold text as follows:

It is not always necessary to use bold text; the full sentence must be read to understand the context. Bold should be applied only when the term genuinely refers to something that affects the hull shell, deck, cockpit, transom, associated fittings, or anything else included in the definition of the hull. If the term does not apply to all of these and is used in a more general or casual sense, then bold formatting is not required.

Antonio Saporito, World Sailing, 28.11.2025

The 2.4mR TC notes that CR D.3.1.(a) is the key rule defining hull construction and the ERS **hull** definition is required to apply in this context.

The 2.4mR TC notes that CR D.3.1 (a) excludes fittings, breakwater and corrector weights from **hull** materials control.

The 2.4mR TC notes that the 2.4mR boat internal structure and thwart design varies with different designs and we note that some boats (including Super 3 2.4mRs) do not have a thwart – fittings are fixed to a bracket under the deck.

The 2.4mR TC supports the class rule change in principle and subject to 2.4mR World Council 2026 approval would work with World Sailing to agree wording to exclude the thwart from the ERS **hull** definition under CR D.3.1.(a).

Other Corrections

The Norwegian Technical Committee submission noted that there is a class rule error with respect to CR A.13.1 (d). CR A.13.1 (d) permitted equipment in force at the time of the boat fundamental measurement which proved to be impractical to enforce, and deletion of CR A.13.1 (d) was approved at the 2.4mR ICA AGM 2018. The amended 2.4mR class rules issued by World Sailing with an effective date of 2018-06-01 included the deletion of CR A.13.1 (d).

The 2.4mR TC has prepared a CR D.2.1, E.2.1, E.4.1 and F.2.1 change proposal for 2.4mR World Council review at the 2.4mR ICA AGM 2026.

14. 2.4mR Class Rules Review:

2025.12.17 2.4mR class rule A11 Certification discussed – CR .11 CERTIFICATION requires a measurement form for all 2.4mR boats to obtain a **certificate**. Production 2.4mR boats built from approved moulds have identical measurements so why do we pay for full measurement for all boats? TC to consider options for **certification** of production boats.

- ❖ Full measurement could apply to production boat prototypes only with random checks to future boats.
- ❖ Full measurement needs to apply to all one-off (home-built) boats, modified boats and boats with no records.
- ❖ Full measurement would be required for production boat new prototypes if the approved moulds or laminate design is changed.
- ❖ Full measurement is a time and cost barrier for new 2.4mR boat construction.

2.4mR Class Rules

A.11 CERTIFICATION

- A.11.1 For a **boat** not previously **certified**, all items required by the **certification control** form to be measured shall be measured by an **official measurer** and the details entered onto the form. The declarations on the form shall be signed by the builder and the **official measurer**.
- A.11.2 The **certification control** form and **certification** fee if required, shall be sent to the **certification authority** in the country where the **boat** is to be registered after completion of measurement.
- A.11.3 Upon receipt of a satisfactorily completed measurement form and **certification** fee if required within the time limit, the **certification authority** shall issue a **certificate**.
- A.11.4 The **certification authority** shall retain the original measurement form, which shall be transferred to the new **certification authority** upon request if the **boat** is exported.

15. 2.4mR AGM 2026

2025.12.17 NCA nominations for 2.4mR TC 2026-2027 as follows:

- ❖ Peter Russell AUS
- ❖ Rikard Bjurstrom FIN
- ❖ Bruce Millar CAN
- ❖ Jon Bjorklund NOR
- ❖ Thomas Jatsch GER (appointed for 2025-2026)

The 2.4mR TC thanked Stellan Berlin for his extraordinary contribution to the 2.4mR class over many years – his years of service have informed his invaluable advice to the 2.4mR TC regarding the background to the class rules.

16. General Business:

2025.12.17 Thomas Jatsch – 4 days of 2.4mR boat measurement (10-11 boats) in France programmed for March 2026. Thomas noted he holds measurement records for over 400 boats from 6 countries – Bruce Millar to advise regarding dropbox system for records management.

Next Meeting:

Canada	1.00pm Wednesday 21 January 2026
UK	8.00pm Wednesday 21 January 2026
Sweden	9.00pm Wednesday 21 January 2026
Norway	9.00pm Wednesday 21 January 2026
Germany	9.00pm Wednesday 21 January 2026
Finland	10.00pm Wednesday 21 January 2026
Australia	7.00am Thursday 22 January 2026

2.4mR TC WORK PROGRAM 2025

2.4mR Technical Committee

Peter Russell (AUS) Chairman
Bruce Millar (CAN)
Stellan Berlin (SWE)
Rikard Bjurstrom (FIN)
Thomas Jatsch (GER)

ICA 2.4 NOD Certification Administrator

Louise Anstey (CAN)

ICA IM

Keith Gordon (GBR)
Matti Muoniovaara (FIN)

1 World Sailing

TC to review World Sailing RRS and ERS for class rule compliance.

2 2.4mR Class

TC to review class documentation:

- ❖ Updated 2.4mR class rules issued by World Sailing 2 December 2024
- ❖ 2.4mR Measurement Manual 2020 (v. 9)
- ❖ 2.4mR eMeasurement Form
- ❖ 2.4mR Buoyancy **certificate** (v. 3)
- ❖ 2.4mR **certificate** template for NCA Certification Authorities

TC to seek World Sailing 2.4mR class rule change approval:

- ❖ 2.4mR buoyancy check additional weight
- ❖ 2.4mR mainsail top batten (refer 2025 eAGM)

TC to review 2.4mR class rule requirements:

- ❖ 2.4mR fittings D.9.1 (a) (1) towing fitting
- ❖ 2.4mR hull materials D.3.2 (a) reinforcement plates
- ❖ 2.4mR Waterline Declaration
- ❖ 2.4mR Builder Declaration
- ❖ 2.4mR Production Boat Measurement and Certification

3 2.4 NOD Class

TC to review class documentation:

- ❖ 2.4 NOD Class Rules 2024 v.2
- ❖ 2.4 NOD Construction Manual 2023 v.2
- ❖ 2.4 NOD Drawings J1 – Measurement Section, J2 – Templates, J3 – Deck layout, J4 - Section
- ❖ 2.4 NOD Measurement Manual 2020 (v. 9)
- ❖ 2.4 NOD Measurement Report New Boats (v.5), Measurement Report – Old Boats (v. 4), Optional Measurement Report Mast & Boom (v. 5)
- ❖ 2.4 NOD **certificate** template (v. 5)
- ❖ 2.4 NOD Accredited Builder stickers starting at number 1000

TC to amend 2.4 NOD class rules:

- ❖ 2.4 NOD mainsail top batten (refer 2025 eAGM)

TC to review 2.4 NOD class rule changes:

- ❖ 2.4 NOD buoyancy check additional weight
- ❖ 2.4 NOD templates J.2 stern template clearance
- ❖ 2.4 NOD fittings D.7.1 (a) (1) towing fitting
- ❖ 2.4 NOD hull datum section D.2.5 (b) sheerline

4 Measurement

TC to review 2.4mR and 2.4 NOD measurement manuals – IKEA principles (refer 2025 eAGM).

TC to provide advice on water tank design – Hasse Malmsten to issue collapsable tank design details (refer 2025 eAGM).

TC to review 2.4mR Official Measurer Requirements & Equipment 2023 advice.

TC to review 2.4 NOD template use and prepare 2.4 NOD template register.

5 Safety

TC to review safety advice – Thomas Jatsch to issue safety training notes and photos.

6 Buoyancy Checks

TC to review ICA Buoyancy Certifier assignments:

- ❖ Buoyancy Certifier applications need to demonstrate competency either by current or past measurement qualifications or endorsement by an Official Measurer.
- ❖ ICA Buoyancy Certifier is a Measurer role appointed by the ICA (not MNA) where the person needs to have knowledge of the Class Rules and the ERS, respect competitors and officials and be aware of conflicts of interest.

TC to maintain 2.4mR Buoyancy Certifier database.

TC to prepare ICA Buoyancy Certifier instruction video.

7 2.4 NOD Accredited Builders

TC to review 2.4 NOD Accredited Builder class rule compliance:

- ❖ 2.4 NOD Accredited Builder Application Process (v. 5)
- ❖ 2.4 NOD Accredited Builder Agreement (EC)
- ❖ 2.4 NOD Accredited Builder Boat Inspection Plan (v. 6)
- ❖ 2.4 NOD Accredited Builder Declaration Form (v. 3)
- ❖ 2.4 NOD scan prepared by *VmaxYachting* in high definition for 2.4 NOD Accredited Builders and low definition for general distribution (EC)
- ❖ 2.4 NOD scan data file agreement (EC)

The EC has executed 2.4 NOD Accredited Builder Agreements as follows:

- ❖ *SUPER 3 (United Kingdom) Brian Harding*
- ❖ *ONTARIO YACHTS (Canada) Andrew Macrae*

TC to manage 2.4 NOD prototype inspections and approvals

8 Official Measurer Training

TC to support 2.4mR Official Measurer training program.

- ❖ NCA obtains expression of interest in obtaining Official Measurer accreditation from interested persons and advises ICA of persons names and background.
- ❖ Interested persons attend National, Continental or World Championship events as Equipment Inspector for measurement introduction.
- ❖ Interested persons attend ICA 2.4mR measurement training program to enable interested persons to undertake 2.4mR measurement for external examiner review. 2.4mR training could be conducted on a four-year cycle subject to commitment from interested people.
- ❖ Interested persons obtain NCA support and attend MNA Official Measurer program to obtain Official Measurer accreditation.
- ❖ NCAs obtains required measurement equipment, templates etc for Official Measurer use.

TC to maintain 2.4mR Official Measurer database. All NCAs to advise Official Measurer details.

TC to support Thomas Jatsch IM accreditation application.

9 2.4mR Italy World Championship 2025

TC to assist 2.4mR Italy World Championship 2025 Organizing Authority with race documentation.

10 2.4mR World and Continental Championship Management

TC to review 2.4mR World and Continental Championship Management documentation.

- ❖ 2.4mR World and Continental Championship Management Manual 2024 v. 11
- ❖ Event Form
- ❖ Inspection Plan
- ❖ Haul-out Form
- ❖ Substitution Form