

International 2.4mR Class Association, Technical Committee

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


2.4mR TC MEETING 25 June 2025

Present

Peter Russell (AUS)
Bruce Millar (CAN)
Rikard Bjurstrom (FIN)
IM Keith Gordon (GBR)

Apologies

Stellan Berlin (SWE)
Thomas Jatsch (GER)
Jon Bjorklund (NOR)

General Business

1. Norway Official Measurer Training Program
2025.06.25 2.4mR Official Measurer training video production ongoing.
2. Buoyancy Check Advice
2025.06.25 Buoyancy Check advice note issued for website publication. Buoyancy Check instruction video production ongoing.
3. Replacement World Sailing Plaque Advice
2025.06.25 Replacement World Sailing Plaque advice note issued for website publication. Bruce Millar noted ongoing discussions with 2.4 NOD Certification Administrator regarding 2.4 NOD certificates on ICA website access and certification procedures.
4. Corrector Weight Advice
2025.06.25 2.4 NOD Corrector Weight advice note issued for website publication.
5. World Sailing Mainsail Upper Batten CRC approval
2025.06.25 2.4mR Mainsail Upper Batten CRC approved by World Sailing with effective date 22 June 2025. Final approved CRC deleted «*upper batten pocket may extend to the mast*» and included «*Unlimited*» length requirement. Final approved CRC also redefined batten spacing as «*The **sail** shall have not more than 4 **batten pockets** equally spaced along the **leech** with a tolerance of +/- 50mm.*»
2.4 NOD Mainsail Upper Batten CR updated to be consistent with 2.4mR CR.
6. 2.4 NOD Super 3 Update
2025.06.25 2.4 NOD boat marketing including pricing preparation ongoing.
7. 2.4 NOD Ontario Yachts Update
2025.06.25 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. 2.4 NOD ballast lifter and keel plug fixings to be metric (not imperial).
2025.06.25 Bruce Millar advised prototype 1 2.4 NOD boat production underway, hull complete, deck ready (section 0 width to be corrected with spreader bar for prototype deck installation), buoyancy foam CNC cut, ballast cast, Superspar spars rigged, weight control ongoing. Prototype boat 2 hull commenced. Bruce Millar, John Finch & Tony Pocklington inspected production May 12 & May 16. Application for ICA funding for official measurers costs to assist builder supported by TC in line with 2.4mR AGM 2025 approved budget.
TC agreed mould options (subject to purchaser agreement) as follows:
 - ❖ Traveller track recess
 - ❖ Headsail boom fitting
 - ❖ Cockpit headsail sheet mountings

Key build issues:

- ❖ station 0 error (3mm) rectification
- ❖ width control
- ❖ weight control
- ❖ hull/keel stiffness control
- ❖ chainplate deflection control
- ❖ lifting eye weight capacity
- ❖ cockpit mould front straight (not rounded)

8. **2.4mR Inclusive World Championship 2025**

2025.06.25 Peter Russell issued NOR guidance and associated documents to 2025 World Championship Organising Authority - Fraglia Vela Malcesine on 1 January 2025 as follows:

- ❖ 2.4mR WORLD CHAMPIONSHIP ITALY 2025 TC NOR ADVICE v. 02
- ❖ 2.4mR World & Continental Championship Management Manual 2024 (v. 11)
- ❖ 2.4mR WORLD CHAMPIONSHIP INSPECTION PLAN 2024
- ❖ 2.4mR WORLD CHAMPIONSHIP FINLAND 2023 NOR
- ❖ 2.4mR WORLD CHAMPIONSHIP ITALY 2019 NOR

Full name: **2.4mR World Championship and 2.4mR Para World Championship 2025**

Short name: **2.4mR Inclusive World Championship 2025**

No advice from World Sailing regarding 2.4mR Para World Championship 2025 received to date.

2025.06.26 NOR approved by Italian Sailing Federation, NOR published and entries opened by Fraglia Vela Malcesine on 4 June 2025.

9. **2.4mR Inclusive World Championship 2025**

2025.06.25 Draft 2.4mR Inclusive World Championship Sneek 2026 NOR advice approved by TC for issue for Organising Authority.

10. **Norway 2.4mR eMeasurement Form**

2025.06.25 Rikard Bjurström advised 2.4mR pdf measurement form corrections – form proofing ongoing.

11. **Measurer Accreditation**

2025.06.25 International Measurer - Thomas Jatsch (GER) advised next World Sailing IM seminar is Denmark late 2025, funding for travel approved by EC. David Foscarini (CAN) IM accreditation under consideration.

2025.06.25 Official Measurer – Martin Pascoe (GBR) Official Measurer accreditation subject to RYA sail measurement course completion.

12. **Safety Advice**

2025.06.25 Thomas Jatsch to forward training photos and notes to Peter Russell for future 2.4mR Safety Advice update.

13. **Ballast Review**

2025.06.25 Draft ballast advice approved for ICA publication.

The 2.4mR Technical Committee intends to submit the following amendments to the 2.4mR & 2.4 NOD class rules for 2.4mR World Council approval at the next AGM as required under the 2.4mR Constitution.

The proposed amendment changes the maximum number of ballast pieces from 16 to 18 to allow for additional ballast pieces required to correct a 2.4mR ballast weight to comply with a boats certificate or to maximize a 2.4NOD ballast weight to 181kg.

The proposed amendment also clarifies that for 2.4 NOD boats a battery placed below floor level is counted as one piece of ballast.

14. **2.4 NOD Boat Beam Dimensions Review**

2025.06.25 Bruce Millar advised 13 2.4 NOD boats measured April 2025 – beam discrepancies up to 4mm noted but templates comply. Schedule of discrepancies to be prepared to assist with 2.4 NOD section J.1 Dimensions tolerances review. Rikard Bjurström suggested tolerances be retained but consider grandfathering of non-compliant boats.

15. **Towing Fitting Review**

2025.06.25 Towing fittings rule reviewed – fitting required for towing rope pass through (not towing) only. Peter Russell to prepare draft Towing Fitting advice note for review.

16. Compartment Inspection Opening Review
2025.05.07 Compartment opening rule reviewed – bulkhead opening required to ensure no air trapped in compartment during buoyancy check and to check buoyancy equipment integrity. Peter Russell to prepare draft Compartment Opening advice note for review.
17. Linked4sailing 2.4mR Builder Accreditation
2025.06.25 Bruce Millar advised 2.4mR boats built in Argentina prior to the 2016 Paralympics were manufactured under a sub-licence to Gavia Yachts. ICA to respond the Linked4sailing request for builder accreditation.
2.4mR boats are a development class that is measurement controlled by open class rules administered by World Sailing. No accreditation is required for 2.4mR boat builders – compliance with World Sailing regulations is required.
2.4 NOD boats are a restricted class that is builder controlled by closed class rules administered by the 2.4mR International Class Association (ICA). 2.4mR ICA accreditation is required for 2.4 NOD boat builders.
18. 2.4mR Class Rules Review:
2025.06.25 2.4mR class rule review deferred to August 2025 meeting.
❖ 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
❖ 2.4mR boats to be nearly alike as possible with regard to any matter which may have influence on the basic speed or handling
19. General Business:
2025.06.25 Keith Gordon advised GBR boat lifting eye failure due to low angled lifting strop. Safety Warning to be issued for ICA publication:
We have been advised of another incident where a boat's lifting eyes have failed while lifting a 2.4mR boat.
Boat owners are advised that the crane loop of any lifting strop should be above deck level as a minimum so that the lifting load is primarily vertical. If the lifting load is primarily horizontal with the lifting strop crane loop low in the cockpit the lifting eyes can be ripped out of a 2.4mR boat.
We recommend that lifting strops are regularly checked for wear and tear and replaced in accordance with any use by date.
We also recommend that lifting eyes are regularly checked to ensure that there are no defects in the lifting eye or fibreglass mounting.

Next Meeting

Canada	1.00pm Wednesday 6 August 2025
UK	8.00pm Wednesday 6 August 2025
Sweden	9.00pm Wednesday 6 August 2025
Norway	9.00pm Wednesday 6 August 2025
Germany	9.00pm Wednesday 6 August 2025
Finland	10.00pm Wednesday 6 August 2025
Australia	5.00am Thursday 7 August 2023

2.4mR TC WORK PROGRAM 2025

2.4mR Technical Committee

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

ICA 2.4 NOD Certification Administrator

Louise Anstey (CAN)

ICA IM

Keith Gordon (GBR) IM
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