

International 2.4mR Class Association, Technical Committee

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


2.4mR TC MEETING 26 March 2025

Present

Peter Russell (AUS)
Bruce Millar (CAN)
Rikard Bjurström (FIN)
Thomas Jatsch (GER)
Jon Bjorkland (NOR)
IM Keith Gordon (GBR)

Apologies

Stellan Berlin (SWE)

General Business

1. John Bjorkland TC role

26.03.2025 Opportunity for Jon to join TC in 2026 noted. Jon detailed Norway measurement program – OM Harald Rølfesnes to retire soon – succession plan required – 15 sailors now accredited as Official Measurers by Norway MNA – 2.4mR measurement training for class measurers from sailing clubs in Ålesund, Gjøvik, Stavanger and Tønsberg by Harald Rølfesnes – OM course provides technical knowledge which assists sailors – 2.4mR measurement training is videoed, Jon to review option of 2.4mR measurement video production.

Current OM numbers noted – AUS = 2, CAN = 3, FIN = 2, GBR = 1, GER = 3.

2. EC/TC coordination

05.03.2025 Bruce Millar advised regarding EC/TC coordination as follows:

The EC moving forward will set aside the first minutes of the EC meeting to have the TC representative report and bring forward any issues. The EC expects at least the first 15min. set aside but longer if fine based on the discussion. Once the TC issues have been discussed then the TC member may leave the meeting. It is recommended that any TC minutes from the previous meeting be sent to the EC before their meeting so that the EC can prepare questions etc. The TC representative can be decided at the TC meetings as needed. Peter R. will not be getting up in the middle of the night so it will be up to other members of the TC to take on the role. EC zoom meetings are normally planned for the First Tuesday of every month. This normally gives 6 days after the TC meeting for questions or notes. John Seepe will forward the Zoom link to Peter Russell and myself.

3. Instruction Videos

26.03.2025 Certification Advice note issued by TC – instructional video to follow. Buoyancy Check instructional video production underway following World Sailing approval of class rule changes – Bruce Millar to forward buoyancy check photos for Peter Russell to prepare Buoyancy Check Advice note.

4. World Sailing Buoyancy Check Weight CRC approval

26.03.2025 World Sailing published updated 2.4mR class rules including buoyancy check weight change with effective date 26 February 2025.

26.03.2025 Buoyancy Certificate updated and published on 2.4mR ICA website.

26.03.2025 Buoyancy Certifiers advised of CRC and issued new Buoyancy Certificate template.

5. World Sailing Mainsail Upper Batten CRC approval

26.03.2025 Draft “the upper batten pocket may extend to the mast” CRC documentation reviewed. CR G.3.2 (b) CONSTRUCTION amended to equal «spaces» not «parts». Amended CRC documents approved for submission to World Sailing. WS acknowledged receipt of CRC on 27 March 2025 noting documents are complete – WS to check if CRC can be included in current cycle.

26.03.2025 CR G.3.4 DIMENSIONS measurement of batten pockets to outside dimension (not inside dimension as for most International Classes) discussed.

6. 2.4 NOD Super 3 Update

26.03.2025 2.4 NOD prototype 2 by Super 3 measurement report issued to EC noted 2.4 NOD boat is substantially consistent with the ICA 2.4 NOD quality objectives. EC has written on 26 March 2025 to Super 3 to advise that Super 3 be permitted to proceed to builder declaration of 2.4 NOD compliance for future boats. The advice notes that Super 3 needs to continue to work on their quality plan to achieve a ballast weight of 181kg + corrector weights.

7. 2.4 NOD Ontario Yachts Update

26.03.2025 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.

26.03.2025 Bruce Millar and John Finch visited Ontario Yachts on 21 March 2025 – OY working on mould rectification and tooling – weight control requirement discussed, 2.4 NOD requires total weight not just minimum weight control – metric hardware discussed, ballast lifter and keel plug fixings to be metric (not imperial) - OY assistance available from OMs Bruce Millar and John Finch and IMs David Foscarini and David Sprague.

Key build issues:

- ❖ station 0 error (3mm) rectification
- ❖ width control
- ❖ weight control
- ❖ hull/keel stiffness control
- ❖ chainplate deflection control
- ❖ lifting eye weight capacity

8. 2.4mR Inclusive World Championship 2025

26.03.2025 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

Heiko Kroger to advise if WC is approved as Inclusive WC by World Sailing and advise any WS NOR requirements.

Consistent championship naming required as follows:

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

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

9. Norway 2.4mR eMeasurement Form

26.03.2026 Rikard Bjurström to advise regarding 2.4mR pdf measurement form corrections.

10. IM Seminar

26.03.2025 Thomas Jatsch to review future World Sailing IM seminar opportunities, funding for travel approved by EC.

11. Safety Advice

26.03.2025 Thomas Jatsch to forward training photos and notes to Peter Russell for future 2.4mR Safety Advice update.

12. 2.4 NOD Class Rules Update

26.02.2025 Draft 2.4 NOD class rules update including the following changes reviewed.

- ❖ 2.4 NOD mainsail top batten
- ❖ 2.4 NOD buoyancy check additional weight
- ❖ 2.4 NOD templates J.2 stern template clearance
- ❖ 2.4 NOD hull datum section D.2.5 (b) sheerline

CR G.3.3 (c) CONSTRUCTION to be amended to equal «spaces» not «parts» as for proposed 2.4mR CRC. TC approved updated 2.4 NOD class rules for website publication with effective date 26 March 2025.

2.4 NOD Templates Advice regarding stern template and rudder profile template issued for website publication.

13. 2.4 NOD Stickers
26.03.2025 Old and new 2.4 NOD sticker stocks to be held in Finland and Canada – Bruce Millar has recieved stickers from Rikard Bjurstrom.
14. Corrector Weight Definition
26.03.2025 Bruce Millar noted issue of corrector weight definition – is fibreglass in keel consistent with the class rules? Bruce Millar to confirm case evidence for TC consideration.
15. World Sailing IHC for Sails
26.03.2025 Keith Gordon noted World Sailing have amended IHC for sails with new stickers required.
16. Water Tank
26.03.2025 2.4mR Water Tank Advice including details of Hasse Malmsten collapsable tank design details approved by TC for website publication.
17. General Business:
26.03.2025 Thomas Jatsch noted 3 charter boats available for 2.4mR WC Italy. Rikard Bjurstrom noted 2 charter boats available for 2.4mR WC Italy. Peter Russell to request EC to advise NCAs.

Next Meeting

Canada	1.00pm Wednesday 7 May 2025
UK	8.00pm Wednesday 7 May 2025
Sweden	9.00pm Wednesday 7 May 2025
Germany	9.00pm Wednesday 7 May 2025
Finland	10.00pm Wednesday 7 May 2025
Australia	6.00am Thursday 8 May 2025

Next meeting to discuss 2.4mR class rules:

- ❖ 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
- ❖ 2.4mR boats to be nearly alike as possible with regard to any matter which may have influence on the basic speed or handling

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) 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