

International 2.4mR Class Association, Technical Committee

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


2.4mR TC MEETING 07 May 2025

Present

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

Apologies

Stellan Berlin (SWE)
IM Keith Gordon (GBR)

General Business

1. Norway Official Measurer Training Program

2025.05.08 John Bjorklund report on Norway Official Measurer training program:

The reason for establishing this measurer program is that Harald Rolfsnes is wishing to step down as leader the national TC. He has been the only class measurer in Norway for years.

The measurer education is a twostep process in Norway. All the measurers have to do the official measuring education from the Norwegian sailing federation. This is again divided into two parts: sail measurer and boat measurer. Some of the participants in our class measurer program already have experience with working as boat measurers

In addition to this Harald has organized weekend courses on measuring of the 2.4mR. He did one course in Tønsberg in March with 4 participants, and another one in Stavanger in April also with 4 participants (PR - including new Malmsten 2.4mR boat). There will be a third weekend in Ålesund in September. 8 sailors including myself are planning to take part in Ålesund.

The course is loosely based on the official measuring guide, and the 2.4mR course part takes about 7-8 hours including tank testing.

I have talked to Trond Sverre Førde today. He filmed a bit in Tønsberg. He was planning to edit this to make an instruction video for use in Norway, but he is more than willing to share this with the ICA when he is finished with it.

2025.05.07 Thomas Jatsch recommended that 2.4 NOD measurement be deferred in Official Measurer training for a year after 2.4mR program. Thomas Jatsch noted that Super 3 boat requires setup to establish a level waterline whereas the Norlin Mk 3 just requires a 10mm spacer on the aft cockpit edge to establish a level waterline.

2. Buoyancy Check Advice

2025.05.07 Buoyancy Check advice note approved by TC for website publication. TC notes that mylar sails with headsail sheets weight approximately 2.5kg. Buoyancy Check instructional video production underway.

3. Replacement World Sailing Plaque Advice

2025.05.07 Replacement World Sailing Plaque advice note approved by TC for website publication. TC recommends that the **certificate** includes both new and old plaque numbers to assist boat tracability.

2025.05.07 Bruce Millar noted ongoing discussions with 2.4 NOD Certification Administrator regarding 2.4 NOD certificates on ICA website access and certification procedures.

4. World Sailing Mainsail Upper Batten CRC approval

2025.05.07 Upper batten pocket extension to mast CRC reviewed by World Sailing ERSC with questions answered as follows:

QUESTION 1 With 4 batten pockets the spacing is checked relative to the quarter, half and three-quarter leech points. A mainsail may have less than 4 battens requiring the official measurer to set batten spacing measurement points for checking. The tolerance specification allows for sail manufacture variations.

QUESTION 2 It is preferred to be specific to specify that the upper batten may extend to the mast as in other international classes to avoid any misunderstandings.

QUESTION 3 One line for lowermost and intermediate batten pocket length rule agreed.

TC supports 50mm tolerance rule on bequale batten spacing. Rikard Bjurström noted that battens are required for preventing fluttering not roach support.

5. 2.4 NOD Super 3 Update

2025.05.07 2.4 NOD boat marketing including pricing preparation ongoing.

6. 2.4 NOD Ontario Yachts Update

2025.05.07 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).

2025.05.07 Bruce Millar advised prototype 2.4 NOD boat production underway, buoyancy foam CNC controlled, Superspar mast & boom ordered. TC agreed that front of cockpit mould can be straight to facilitate fitting installation as per Construction Manual (not rounded as per Charger mould).

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

7. 2.4mR Inclusive World Championship 2025

2025.05.07 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**

2025.05.07 NOR delayed pending World Sailing 2.4mR Para World Championship advice – no written confirmation of World Sailing approval received to date. Fraglia Vela Malcesine issued the draft NOR on 5 April 2025 for ICA review. TC advised the EC on 14 April 2025 that the 2025 2.4mR Worlds NOR FVM v. 3 has addressed the 2.4mR TC comments and recommended ICA approval of the NOR. 2.4mR Inclusive World Championship 2025 NOR with Italian Sailing Federation for approval.

8. Norway 2.4mR eMeasurement Form

2025.05.07 Rikard Bjurström advised 2.4mR pdf measurement form corrections – form proofing required.

9. IM Seminar

2025.05.07 Thomas Jatsch advised next World Sailing IM seminar is Denmark 2025, funding for travel approved by EC.

10. Safety Advice

2025.05.07 Thomas Jatsch to forward training photos and notes to Peter Russell for future 2.4mR Safety Advice update.

11. Corrector Weight Definition
2025.05.07 Peter Russell to prepare 2.4 NOD Corrector Weight advice note for TC review.
12. Sail Material
2025.05.07 Dario Motta website question regarding sail materials discussed. TC advise as follows:
We have reviewed your question regarding sail construction and confirm John's advice that the 2.4mR class rules specify that sails shall be "single-ply sail". The sail material is not specified but typically is polyester, mylar or dyneema.
13. 2.4mR Class Rules Review:
2025.07.05 2.4mR class rule review deferred to June 2025 meeting.
- ❖ 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
14. General Business:
2025.05.07 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.
2025.05.07 Bruce Millar raised question of watertight compartment inspection opening 2.4mR class rule D.5.1 (b) requirements. TC agreed that buoyancy compartments require inspection openings – TC to consider class rule change to delete «watertight» requirement.
2025.05.07 Bruce Millar raised question of headsail clew boards. Headsail clew boards are not permitted under 2.4mR class rule G.4.2 (c). TC agreed no headsail clew board provision justified.
2025.05.07 Thomas Jatsch noted that towing rope is specified in C.4.2(a) (1) but requirement to be available for easy deployment in emergency not stated.

Next Meeting

Canada	1.00pm Wednesday 25 June 2025
UK	8.00pm Wednesday 25 June 2025
Sweden	9.00pm Wednesday 25 June 2025
Germany	9.00pm Wednesday 25 June 2025
Finland	10.00pm Wednesday 25 June 2025
Australia	5.00am Thursday 26 June 2025

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