

International 2.4mR Class Association, Technical Committee

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


2.4mR TC MEETING 22 April 2026

Present

Peter Russell (AUS)
Bruce Millar (CAN)
Rikard Bjurstrom (FIN)
Jon Bjorklund (NOR)

Apologies

Thomas Jatsch (GER)

General Business

1. 2.4mR CRC 2026

2026.04.22 TC 2.4mR CRCs submitted for World Sailing review at ERSC meeting 29 April 2026:

- ❖ 2.4mR A.13.1 (d) CORRECTION PROPOSAL – deletion A.13.1 (d)
- ❖ 2.4mR A.11.1 CERTIFICATE CONTROL - builder declaration
- ❖ 2.4mR D.3.1 (a) MATERIALS – cleatboard material
- ❖ 2.4mR D.6.1 (c) WATERLINE – smooth & still water/measurer declaration
- ❖ 2.4mR D.9.1 (a) (1) TOWING FITTING PROPOSAL – towing fitting
- ❖ 2.4mR E.5.2 (b) BALLAST ADVICE PROPOSAL – 18 pieces
- ❖ 2.4mR G.3.1 (c) MAINSAIL IDENTIFICATION - 230mm height

TC agreed to seek advice from World Sailing on the following questions:

- ❖ A.11.1 refers to the certification control form but we use the term Measurement Form in all other documentation – can this be changed to “Measurement Form”?
- ❖ A.13.1 (d) was deleted in 2018 but A.13.1 (e) and A.13.1 (f) retained their numbers – should they be renumbered so there is no missing A.13.1 (d) number?
- ❖ A.13 BUOYANCY CERTIFICATE validity period is 5 years – can this be changed so that there is no requirement for new boats to be buoyancy checked? The first buoyancy check would be 5 years after the date of boat manufacture and every subsequent 5 years. We have boats being manufactured in cold climates where waters are ice bound during winter, so buoyancy checking is not possible. We also note that new boat buoyancy equipment is in good condition ensuring that boats float in accordance with the class rules.

2. 2.4 NOD Certificate Procedures Review

2026.04.22 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.

Louise Anstey review of 2.4 certificate procedures discussed – Louise noted consistent naming of certificates required. TC to check updated OBTAINING CERTIFICATES draft and prepare updated flow diagram. Note «**certificate**» is the document issued by the certification authority issued upon receipt of a satisfactorily completed Measurement Form.

3. 2.4mR eMeasurement Form

2026.04.22 2.4mR eMeasurement Form update incorporating line numbers and measured data entry indicated in blue issued for website publication. Corrected eMeasurement Form issued to World Sailing for website update.

4. 2.4mR Measurement Manual Update

2026.04.22 Updated 2.4mR Measurement Manual incorporating 2.4mR Measurement Form line number issued for review. Norway sketches to be added – A1 translation has corrupted diagrams – Peter Russell working on corrections. Jon Bjorklund noted Norway TC working on new Measurement Manual for Norway (including English translation).

5. Vakaros Race Sence Capability

2026.04.22 Electronic navigation systems discussed as priority– system used by sailors in several fleets – requiring sailors to buy Vakaros equipment is not supported. TC noted decision making should be by sailor not computer – TC noted that boats should not receive data communication that is not available to all boats (refer SIs) - TC noted that Vakaros does not have a race sence «off switch» - TC noted that OCS function can be used for race management – TC noted race tracking function can be used for post-race sailor presentation.

TC noted timer, compass and start line setting functions OK.

TC agreed electronic navigation equipment class rule required.

TC to check Vakaros “class setting” option parameters.

Bruce Millar noted World Sailing working on Olympics protocols.

Thomas Jatsch to issue updated 5.5metre class electronic navigation rule for consideration.

2.4mR Class Rules

No 2.4mR class rule - use of electronic equipment unlimited.

2.4 NOD Class Rules

C.5 PORTABLE EQUIPMENT

C.5.2 OPTIONAL

- (d) *The use of electronic navigation equipment is permitted. Timing devices are permitted. Handheld communication devices (cell phones, pagers, radios, etc.) are permitted but may be prohibited or restricted in the notice of race or sailing instructions.*

6. 2.4 NOD Super 3 Update

2026.04.22 EC to followup David Heritage Racing Yachts marketing on website. Bruce Millar to check EC transfer of 2.4 NOD Accredited Builder Agreement to David Heritage Racing Yachts.

7. 2.4 NOD Ontario Yachts Update

2026.04.22 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 mold approval subject to prototype boat No. 1 measurement.

Pricing and marketing documentation underway - boats to be batch produced for sale. Boats include machined foam, watercut lead ballast and superspar rig.

Fundamental measurement carried out 15-18 January 2026 with measurement team Bruce Millar, John Finch, IM David Sprague, IM David Foscari – refer Bruce Millar report dated 27 January 2026. 2.4 NOD measurement to be completed – TC to consider recommendation for 2.4 NOD builder certification. 2.4 NOD stickers purchase to be verified.

2.4 NOD Prototype boat No. 1 Fundamental Measurement Data

- ❖ Boat weight 253.6 kg with 181kg ballast and 2kg corrector weight
- ❖ Waterline length tank test pass
- ❖ Buoyancy check pass
- ❖ Hull/keel stiffness pass
- ❖ Chain plate deflection pass
- ❖ Lifting eye load capacity pass

TC agreed 2.4 NOD mold options (subject to purchaser agreement) as follows:

- ❖ traveller track recess
- ❖ headsail boom fitting
- ❖ cockpit headsail sheet mountings

TC 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).
- ❖ Front tank buoyancy improvement – front deck camber increase option to be reviewed to allow increased buoyancy foam – dimensional relationship of **mast datum point** to mast hole surround to be considered – deck appearance to be similar to reference 2.4 NOD boat.

8. Linked4sailing 2.4mR Builder Accreditation

2026.04.22 No further contact with Linked4sailing.

9. Auxinavy 2.4 NOD Builder Accreditation

2026.04.22 Auxinavy 2.4 NOD Accredited Builder Agreement executed 17 March 2026 – EC to execute agreement on behalf of ICA.

Auxinavy application to use Corecell™ M Series (M100) by GurSAN core material reviewed. TC understands that the use of SAN material may not increase the 2.4mR boat construction cost. TC approval of SA core material to be issued to Auxinavy. TC to review 2.4mR class rule change proposal. TC noted core material density specification of required – 60kg/m³ equals light balsa core material density – laminate is controlled by D.3.2 CONSTRUCTION 3.6kg/m² mouldings weight class rule.

“Where sandwich construction is used, the core material shall be balsa wood core material or structural foam core material.”

10. 2.4mR World Championship 2026 Sneek

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

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

2025.12.16 Updated SI template issued to 2.4mR World Championship 2026 Organising Authority.

2026.03.25 Registration opened 1 March 2026, overseas payment options clarified.

2026.04.22 TC to follow up Sailing Instruction status with Organising Authority

11. 2.4mR World Championship 2027 Tonsberg

2026.03.13 Peter Russell issued NOR advice and associated documents to 2.4mR World Championship 2027 Organising Authority, Tønsberg Seilforening, Fjærholmveien 192, Husøysund, 3132, Norway (Erik FUSDahl).

- ❖ 2.4mR WORLD CHAMPIONSHIP 2027 TC NOR ADVICE v. 1
- ❖ 2.4mR World & Continental Championship Management Manual 2026 (v. 13)
- ❖ 2.4mR WORLD CHAMPIONSHIP EVENT FORM
- ❖ 2.4mR WORLD CHAMPIONSHIP INSPECTION PLAN 2024
- ❖ 2.4mR WORLD CHAMPIONSHIP SUBSTITUTION FORM
- ❖ 2.4mR WORLD CHAMPIONSHIP HAUL-OUT FORM
- ❖ 24mRwc2023NoR (1)
- ❖ 2025 2.4mR Worlds_NoR_FVM_6_FINAL
- ❖ NOR-WK-2.4mR-final3

12. Production Boat Buoyancy Certification

2026.04.22 TC agreed buoyancy check for 2.4 NOD production boats not required. TC to review 2.4mR buoyancy check requirements with World Sailing. TC to add buoyancy check to 2.4 NOD Builder Declaration Form.

13. Measurer Accreditation

2026.04.22 International Measurer - Thomas Jatsch providing ongoing assistance for World Sailing events in 2.4mR, Hansa and RS Venture classes – IM exam can be taken within 3 years of IM accreditation – Thomas Jatsch to follow-up accreditation status with World Sailing.

14. Safety Advice

2026.04.22 Thomas Jatsch draft safety training advice issued for review – Thomas to source missing photos and include race support training notes.

15. 2.4 NOD Boat Beam Dimensions Review

2026.04.22 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**.

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

16. 2.4mR Compartment Opening

2026.04.22 2.4mR & 2.4 NOD COMPARTMENT OPENING PROPOSAL eAGM 2026 withheld subject to review of grandfathering option. Deck mounted drain plug could be used by official measurer/buoyancy certifier if buoyancy check questioned. TC to review options for checking compartment buoyancy – verify air outlet - verify foam installation – verify compartment flooring. TC noted class rule applies to «watertight» compartments.

2.4mR Class RULES

D.5 BUOYANCY EQUIPMENT

D.5.1 CONSTRUCTION

- (c) *Watertight compartments shall allow for inspection with a hatch opening of minimum 100 mm in diameter. The highest point of the opening shall be placed no more than 50mm below the underside of the **deck**.*

2.4 NOD Class RULES

D.5 BUOYANCY

D.5.1 CONSTRUCTION

- (b) *Watertight compartments shall be inspectable by an opening of minimum 100 mm in diameter. The highest point of the opening shall be placed no more than 50mm below the underside of the deck.*

17. 2.4mR boat measurement France 2026

2026.04.22 Thomas Jatsch – 2.4mR boat measurement (12 boats) in France delayed to May 2026 – Loic Eonnet to confirm measurement arrangements.

Proposed use of World Sailing sail numbers reviewed – existing 2.4mR class rules permit NCA numbers, World Sailing numbers and personal numners. Transition to World Sailing plaque numbers only not practicable – if rule applies to new sails, boats could be at events with multiple sail numbers – if rule applies to each boat, sailors with personal numbers would require new sails for many boats.

18. 2.4mR Measurement Records

2026.04.22 Thomas Jatsch noted he holds measurement records for over 400 boats from 6 countries. Bruce Millar has issued dropbox template for Thomas Jatsch implementation – file name format agreement required – access control required.

19. 2.4mR Certification Review

2026.04.22 2.4mR class rule A11 Certification subject to ongoing discussion.

CR .11 CERTIFICATION requires a measurement form for all 2.4mR boats to obtain a **certificate**. Production 2.4mR boats built from approved molds 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.

TC to review Builder's Declaration form – design information required including weight, sail dimensions, P, E, I & J for equipment inspection.

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.

20. 2.4mR World Championship IMs

2026.04.22 World Sailing regulations for World Championships discussed – requirement for IMs to be reviewed. 2.4mR ICA to seek World Sailing approval for official measurer (with 2.4mR class measurement experience) in lieu of IM for future World Championship technical committees.

World Championships for World Sailing Classes

- 10.4 To maintain the right to hold a World Championship, a class that holds a world championship shall:
- (d) appoint an International Measurer to the technical committee for the world championships unless otherwise agreed with World Sailing;

Next Meeting:

Canada	12.00pm Wednesday 27 May 2026
Norway	9.00pm Wednesday 27 May 2026
Germany	9.00pm Wednesday 27 May 2026
Finland	10.00pm Wednesday 27 May 2026
Australia	5.00am Thursday 28 May 2026

2.4mR TC WORK PROGRAM 2026

2.4mR Technical Committee

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

ICA 2.4 NOD Certification Administrator

Louise Anstey (CAN)

ICA IMs

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 16 June 2025
- ❖ 2.4mR Measurement Manual 2020 (v. 9)
- ❖ 2.4mR eMeasurement Form (line numbers addition & data entry)
- ❖ 2.4mR Buoyancy **certificate** (v. 4)
- ❖ 2.4mR **certificate** template for NCA Certification Authorities

TC to seek World Sailing 2.4mR class rule change approval (refer eAGM 2026):

- ❖ 2.4mR Ballast Proposal
- ❖ 2.4mR Materials Proposal
- ❖ 2.4mR Towing Fitting Proposal
- ❖ 2.4mR A.13.1 (d) Correction Proposal
- ❖ 2.4mR Hull Definition Proposal – Cleat Board (Norway)

TC to review 2.4mR class rule requirements:

- ❖ 2.4mR Compartment Opening Proposal (buoyancy check & grandfathering)
- ❖ 2.4mR Waterline Declaration (consider tank test and still waters for waterline measurement)
- ❖ 2.4mR Buoyancy Check (consider buoyancy builder certification of production boats)
- ❖ 2.4mR Certification (consider measurement and builder certification of production boats)
- ❖ 2.4mR Electronic Equipment (consider use of Vakaros race sense capability)
- ❖ 2.4mR Sail Numbers (consider plaque numbers for new sails & bow numbers for events)

3 2.4 NOD Class

TC to review class documentation:

- ❖ 2.4 NOD Class Rules 2025 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 (refer eAGM 2026):

- ❖ 2.4 NOD Ballast Proposal
- ❖ 2.4 NOD Materials Proposal
- ❖ 2.4 NOD Towing Fitting Proposal

TC to review 2.4 NOD class rule changes:

- ❖ 2.4 NOD Compartment Opening Proposal (buoyancy check & grandfathering)
- ❖ 2.4 NOD Waterline Declaration (consider tank test and still waters for waterline measurement)
- ❖ 2.4 NOD Buoyancy Check (consider buoyancy builder certification of production boats)
- ❖ 2.4 NOD Certification (consider measurement and builder certification of production boats)
- ❖ 2.4 NOD Electronic Equipment (consider use of Vakaros race sense capability)

TC to review 2.4 NOD certification of 2.4mR boats with beam dimension non-compliances

4 Measurement

TC to review 2.4mR and 2.4 NOD measurement manuals – measurement form line number references to be added – Norway TC measurement diagrams to be added.

TC to manage preparation of Measurement Training Video by Norway TC.

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.

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 v. 4.2 (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 advise next steps for 2.4 NOD accredited builder application from Auxinavy (Spain)

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 World Championships

TC to assist 2.4mR World Championship Sneek 2026 Organizing Authority with SI documentation.

TC to assist 2.4mR World Championship Tønsberg 2027 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 2025 v. 12
- ❖ Event Form
- ❖ Inspection Plan
- ❖ Haul-out Form
- ❖ Substitution Form