

International 2.4mR Class Association, Technical Committee

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


2.4mR TC MEETING 3 June 2026

Present

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

Apologies

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.11.1 CERTIFICATE CONTROL - builder declaration
- ❖ 2.4mR A.13.1 (d) CORRECTION PROPOSAL – deletion A.13.1 (d)
- ❖ 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

World Sailing review supported 2.4mR CRC – WS recommended missing CR A.13.1 (d) be added as CR A.13.1 (d) Spare – amended CRC issued at WS on 15.06.2026.

WS advised updated ERS requires **official measurer** to be amended to **certification measurer** – amended CRC issued to WS on 15.06.2026 correcting A.3.2, A.11.1, A.15.2, C.6.1 (b), D.6.1 (c) & G.2.2 (b).

2026.06.04 World Sailing advised CR A.11.1 reference to **certification control form** can be amended to **measurement form** – additional CRC Amendment 11 issued to WS on 15.06.2026. Updated 2.4mR measurement form to be uploaded to WS website at the same time as the CRC.

2026.06.04 World Sailing advised that proposed amendment to buoyancy certificate validity is supported subject to 2.4mR World Council approval. 2.4mR TC to prepare CRC for World Council approval. 2.4mR TC to add buoyancy check to 2.4 NOD Builder Declaration Form. WS proposed wording:

Regarding the change for the BUOYANCY CERTIFICATE, please find below the ERSC proposal on how to achieve what you are describing (The rules will only require that boats older than 5 years shall have an ICA Buoyancy Certificate):

A.15 BUOYANCY CERTIFICATE

A.15.1 The ICA Buoyancy Certificate shall state the WS/WORLD SAILING plaque number, the date of confirmation and the name and signature of the confirming individual.

A.15.2 The buoyancy check shall be carried out and the ICA Buoyancy Certificate completed and signed by an official measurer or a competent individual assigned by the Technical Committee.

A.15.3 The buoyancy check shall be performed following the method given in Rule B.4.

A.15.4 The first ICA Buoyancy Certificate shall be issued not later than 5 years from the initial certification date. An ICA Buoyancy Certificate is valid for a maximum of five (5) years from the date of confirmation and then a new certificate shall be issued.

B.1 CERTIFICATE

B.1.1 The boat shall:

- (a) be in compliance with class rules
- (b) have a valid certificate
- (c) have a valid ICA Buoyancy certificate according to rule A.15.4.

2. 2.4 NOD Certificate Procedures Review

2026.06.03 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 Measurement Manual Update

2026.06.03 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).

4. Vakaros Race Sense Capability

2026.06.03 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 sense «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.

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.*

5. 2.4 NOD Super 3 Update

2026.06.03 EC to followup David Heritage Racing Yachts marketing on website and transfer of 2.4 NOD Accredited Builder Agreement to David Heritage Racing Yachts.

6. 2.4 NOD Ontario Yachts Update

2026.06.03 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 Foscarini – 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 prototype undergoing sea trials.

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.

7. Linked4sailing 2.4mR Builder Accreditation

2026.06.03 No further contact with Linked4sailing.

8. Auxinavy 2.4 NOD Builder Accreditation

2026.03.17 Auxinavy 2.4 NOD Accredited Builder Agreement executed 17 March 2026.

2026.04.24 Auxinavy application to use Corecell™ M Series (M100) by GurSAN core material approved by 2.4mR TC. Laminate design details and weight sample photograph to be submitted to 2.4mR TC for approval.

2026.06.03 TC to review 2.4mR class rule change proposal. TC noted core material density specification not 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.”

9. 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.

2026.06.03 Draft 2.4mR World Championship 2026 SIs received by 2.4mR TC for review – TC report addressing 2.4mR SI questions issued to Organising Authority on 04.06.2026. Amended SIs forwarded to 2.4mR EC for approval on 09.06.2026 with note as follows:

I note that, contrary to my own practice but in accordance with World Sailing guidance, the SIs do not repeat information contained in the NOR – for example (DP) definition, communication transmissions and scoring are not included in the SIs. Competitors will need to have copies of both the NOR and SIs to understand the rules governing the championship.

10. 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 Fusedahl).

- ❖ 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

2026.06.03 Dates for 2.4mR World Championship 2027 confirmed as 26.07.2027 to 01.08.2027. 2.4mR website to be updated with event details.

11. Measurer Accreditation

2026.06.03 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.

12. Buoyancy Certifier

2026.06.03 Application for accreditation of Brian Carroll (AUS) as buoyancy certifier approved by 2.4mR TC.

13. 2.4 NOD Boat Beam Dimensions Review

2026.06.03 Bruce Millar advised verified beam variance of boats manufactured 1999-2007 with 2.4 NOD section J.1 Dimensions tolerances as follows. All boats complied with 2.4 NOD hull template checks. 2.4mR TC approved endorsement as 2.4 NOD boats with beam variance noted on **2.4 NOD certificates**.

May 25, 2026 – Verified by Bruce Millar, Louise Anstey – Victoria BC Canada

NOD OLD BOAT (Built before 2011-03-01)

Measurement of Beam (Variance outside of specification on Measurement Form)

Boat #	Stn "0"	Stn "2"	Stn "4"
	Measurement/ Variance	Measurement/ Variance	Measurement/Variance
WS 266 (Meter Boats AUS)			
	538mm / OK	811mm / +3mm over	323mm / +14mm over
WS 442 (Gavia Yachts USA)	Boat not available for verification as it is Toronto		
Original findings not updated			
	534mm / -2mm under	790mm / -10mm under	OK
WS 488 (Gavia Yachts USA)			
	536mm / OK	796mm / -4mm under	309mm / OK
WS 497 (Gavia Yachts USA)			
	529mm / -7mm under	796mm / -4mm under	313mm +4mm over
WS 552 (Bjorandah/Charger Finland)			
	533mm / -3mm under	801mm/OK	303mm / OK

Observation: The NOD templates were placed on the boats, and all tolerances were within specifications.

Recommendation: Measurers to allow for beam variation on OLD boats up to a maximum of

+ or - ??? mm provided that the templates show within allowed tolerances. This would be called a "Variance"

Variance to be noted on measurement form.

ICA NOD Administrator to issue NOD certificate with the following note:

"Beam variance as approved by ICA"

Certificate would not show specification as this would be on file with measurement paperwork as received by ICA.

14. 2.4mR Compartment Opening

2026.06.03 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 flooding. 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.*

15. 2.4mR boat measurement France 2026

2026.06.03 Thomas Jatsch – 2.4mR boat measurement (12 boats) in France delayed – Loic Ennet to confirm measurement arrangements.

16. 2.4mR Measurement Records

2026.06.03 Thomas Jatsch noted he holds measurement records for over 400 boats from 6 countries – Thomas Jatsch to implement dropbox system to allow for data sharing management.

17. 2.4mR World Championship IMs

2026.06.03 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;*

18. 2.4mR SV Number

2026.06.03 2.4mR TC confirmed 2.4mR boats have no SV number.

19. 2.4mR World Championship Trophies

2026.06.03 2.4mR TC to review World Championship trophies:

- ❖ Is World Champion excluded from winning other trophies (2.4 NOD, Master, Grand Master, Woman, Para etc)
- ❖ Inclusion Team trophy not awarded since introduction in 2019
- ❖ Silver Fleet (where applicable) 1, 2 & 3 to be added to trophy schedule

20. 2.4mR Carbon Construction

2026.06.03 Bruce Millar noted Heiko Kroger question regarding carbon construction - refer EC minutes as follows:

2.4mR EC Minutes 2 June 2026

Carbon fibre components: Heiko raised experiences with small carbon parts (e.g. profiles, levers) and their practical advantages over alternatives such as stainless steel or GRP. The committee acknowledged ongoing discussions, including World Sailing approvals for certain carbon elements (e.g. cleat boards). Emphasis was placed on clear rule descriptions, size limitations, and non-structural applications. Members are encouraged to submit photos and details of encountered items to the TC for review.

21. 2.4mR Official Measurer Database

2026.06.03 Jon Bjorklund to submit list of Norway Official Measurers for 2.4mR OM database.

20. 2.4mR Certification Review

2026.06.03 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.*

Next Meeting (informal meeting Sneek 2026):

Canada	12.00pm Wednesday 19 August 2026
Norway	9.00pm Wednesday 19 August 2026
Germany	9.00pm Wednesday 19 August 2026
Finland	10.00pm Wednesday 19 August 2026
Australia	5.00am Thursday 20 August 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