

International 2.4mR Class Association, Technical Committee

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



2.4mR TC MEETING 5 November 2025

Present

Peter Russell (AUS)
Bruce Millar (CAN)
Rikard Bjurstrom (FIN)
Stellan Berlin (SWE)
Thomas Jatsch (GER)
Jon Bjorklund (NOR)
IM Keith Gordon (GBR)

Apologies

Nil

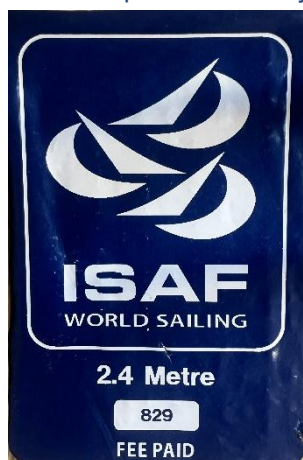
General Business

1. Norway Official Measurer Training Program

2025.11.05 2.4mR Official Measurer training video production in conjunction with training program not possible – separate setup with Official Measurer and videographer required – options to be reviewed – use of 3 laser system for baselines noted.

2. 2.4 NOD Certificate Procedures Review

2025.11.05. 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.



CHARGER COMPOSITES	
Model:	2.4mR Norlin MkIII
Serial number:	CC24NO13015
Color Hull:	RAL 9003
Color waterline:	NO Δ 5015
ISAF plaque:	Nr : 829
One Design Plaque :	Nr : 049

3. 2.4 NOD Super 3 Update

2025.11.05 Super 3 2.4mR & 2.4 NOD boat marketing subject to future announcement.

4. 2.4 NOD Ontario Yachts Update

2025.11.035 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 mould approval pending prototype 1 boat measurement.

2.4 NOD prototype boat No. 1 detailed check completed 13-14 September by Bruce Millar & John Finch. 2.4 NOD prototype boat No. 2 moulded. Measurement programmed for January 2026 with IM David Sprague. 5 Superspar rigs delived, buoyany foam machined to tight tolerance.

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) ,ballast lifter and keel plug fiixngs to be metric (not imperial).

5. **Linked4sailing 2.4mR Builder Accreditation**
2025.11.03 No further contact with Linked4sailing.
6. **Spain 2.4mR Builder Accreditation**
2025.11.03 Rafa advice issued by TC on 9 October 2025 including:
 - ❖ 2.4 NOD Accredited Builder Application Process v. 5
 - ❖ 2.4 NOD Accredited Builder Inspection Checklist v. 6
 - ❖ 2.4 NOD Construction Manual 2023.02
 - ❖ 2.4 NOD Class Rules 2025 v. 2
 - ❖ 2.4 NOD Certificate Advice 2024
7. **2.4mR Inclusive World Championship 2025**
2025.01.01 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 NOR2025.06.04 NOR approved by Italian Sailing Federation, NOR published and entries opened by Fraglia Vela Malcesine on 4 June 2025.
2025.11.05 No advice from World Sailing regarding 2.4mR Inclusive World Championship 2025 received by the 2.4mR TC.
2025.11.05 Thomas Jatsch noted boat paperwork and club facilities good – no measurement issues (note - AUT para sailor not sailing 2.4 NOD boat) – race management good – after race checks OK. RO Adrian Stoggall noted event would have been chaos without Thomas!
2025.11.05 Thomas Jatsch and Rikard Bjurström noted that the full length mainsail batten did not appear to offer any racing advantage and its use is up to individual sailors.
2025.11.05 Peter Russell advised no IM endorsement request for IM Matti Muoniovaara was received from World Sailing. The request for IM endorsement from Matti Muoniovaara advising “you have 9 hours to do it” does not allow time for TC consultation and TC advice to EC regarding endorsement. IM endorsement actioned by EC.
2025.11.05 Rikard Bjurström to follow-up IM Matti Muoniovaara World Championship report.
2025.11.05 2.4mR Inclusive World Championship 2025 Sailing Instructions (SI) prepared by 2.4mR TC following requests to Fraglia Vela Malcesine for draft SIs for review and Fraglia Vela Malcesine advice on 2025.10.09 that they were waiting for a World Sailing SI template to be forwarded by the 2.4mR ICA. No World Sailing SI template, or advice that this was required, was received by the 2.4mR TC. SIs finalised by 2.4mR TC in consultation with RO Adrian Stoggall with minor amendments to final version by World Sailing. SIs timeline report issued to 2.4mR ICA EC – 2.4mR TC notes SIs are required to be posted on the event website at least two months prior to the event.
2025.11.05 OM Thomas Jatsch costs covered by Fraglia Vela Malcesine; IM Matti Muoniovaara costs covered by 2.4mR ICA. IM attendance at event is required for all equipment inspection and racing days – the IM acts as the chairman of the Technical Committee and is responsible for measurement protests.
8. **2.4mR Inclusive World Championship 2026**
2025.07.11 Peter Russell issued NOR advice and associated documents to 2026 World Championship 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 NOR2025.09.03 2.4mR Inclusive World Championship 2026 date has been added to ICA website as follows:
2.4mR INCLUSIVE World Championship 2026 - 07.07.2026 – 12.07.2026 - Koninklijke Watersportvereniging Sneek (KWS), Kolmarslân 1, 8626 GD Offingawier, The Netherlands

2025.11.05 Draft 2.4mR inclusive World Championship 2026 documents programmed for issue to 2.4mR ICA by end November 2025. 3D scan issued to Organising Authority for trophy construction. Promotional video funding approved by 2.4mR EC.

9. Measurer Accreditation

2025.11.05 International Measurer - Thomas Jatsch (GER) advised next World Sailing IM seminar is Denmark late 2025, funding for travel approved by EC. Thomas Jatsch providing ongoing assistance for World Sailing events. Comprehensive knowledge of ERS is required for examination.

10. Safety Advice

2025.11.05 Thomas Jatsch draft safety training advice issued for review – Thomas to source missing photos and include race support training notes.

11. 2.4 NOD Boat Beam Dimensions Review

2025.11.05 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. TC to consider endorsement as 2.4 NOD boats with discrepancies noted on **certificate**.

Victoria BC / Toronto ON Spring Summer 2025

NOD Boats Measured

Hull Templates put on all boats at Sections, 0, 2, 4 and were within tolerances.

All boats out of Specifications will be rechecked to verify

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

12. Towing Fitting Review

2025.11.05 2.4mR towing fitting advice D.9.1 (a) issued for website publication. Wording for ICA World Council submission proposed as follows:

A suitable fitting (or system) in the bow area of minimum 12mm internal diameter to enable a towing rope to be passed through the fitting for securing at the mast or equivalent to guide the boat when under tow. The fitting shall be easy to access from a rescue craft.

13. Compartment Inspection Opening Review

2025.011.05 2.4mR compartment inspection D.5.1 (b) advice issued for website publication. Wording for ICA World Council submission proposed as follows:

The fore and aft buoyancy equipment compartment bulkheads shall include an inspection or bulkhead opening of minimum 100 mm in diameter with the highest point of the opening no more than 50mm below the underside of the **deck**.

14. Hull Materials Review

2025.11.05 2.4mR hull materials D.3.2 (a) issued for website publication. Wording for ICA World Council submission proposed as follows:

Aluminium or stainless steel reinforcement plates are permitted where required for mounting fittings.

15. Waterline Declaration Review

2025.11.05 2.4mR class rule on Waterline Declaration D.6.1 (c) discussed. Tank for waterline declaration questioned – tank not available for all official measurers. TC noted production boats following prototype approval should not require waterline verification – modified boats, one-off boats and boats with lost paperwork will require waterline verification. Tank or «still water» option subject to further investigation with World Sailing. Waterline declaration form to be updated to current 2.4mR class rules.

2.4mR Class Rules

D.6.1 GENERAL

- (c) The waterline shall be controlled by placing the boat in a water tank and loading it according to H.2. The official measurer shall issue a declaration or state on the measurement form that the correct procedure was followed.

16. 2.4mR Builder Declaration Review

2025.11.05 2.4mR class rule on Builder Declaration D.4.2 (e) discussed. Builder Declaration agreed as a form of builder guarantee by the boat builder that the 2.4mR boat is built in accordance with the class rules. Updated 2.4mR Builder Declaration form approved by 2.4mR TC.

2.4mR Class Rules

D.3.2 CONSTRUCTION

- (c) For boats initially certified after the 3rd June 2013, the builder shall issue a manufacturer's declaration certifying the compliance with rules D.3.1 (a) and D.3.2 (a) and (b), using the ICA Builders Declaration Form.

17. Norway Submission

2025.11.05 Norway Technical Committee (Haavard Haktor Holstad & Harald Rolfness) submitted a 2.4mR class rule amendment proposal dated October 2025. The 2.4mR TC noted its appreciation of the detailed submission and discussed the application of 2.4mR class rules to the proposal.

Hull or Fitting

The Norwegian Technical Committee submission discussed the laws and rules regarding **hull** and fittings and noted an apparent contradiction between definitions of the hull and fittings in the ERS and the Class Rules.

The 2.4mR TC notes the following class rules:

*A.5.2 Except where used in headings, when a term is printed in “**bold**” the definition in the ERS applies and when a term is printed in “*italics*” the definition in the RRS applies.*

*D.3.1 MATERIALS (a) The **hull**, excluding fittings, breakwater and corrector weights, shall be built from wood and/or Glass Reinforced Plastic. Aluminium alloy reinforcement plates are permitted where it is needed for mounting fittings. Tube housing for rudderstock and post for attaching the bilge pump may be of any material. However, lead is only permitted for **ballast** and **corrector weights**.*

The 2.4mR TC understands that CR A.5.2 cannot be altered by the class rules.

The 2.4mR TC notes that the 2.4mR thwart is fastened to the hull and may strengthen the hull in particular the chain plate rigidity. The 2.4mR class rules and ERS consider the 2.4mR thwart to be part of the boat internal structure and therefore hull and compliance with CR D.3.1 (a) is required.

The 2.4mR TC notes that CR D.3.1 (a) excludes fittings, breakwater and corrector weights from materials control. The 2.4mR class rule exclusion of fittings from the hull definition is approved by World Sailing.

The 2.4mR notes that the 2.4mR internal structure and thwart design varies with different boat designs. The 2.4mR thwart's primary function is as a platform for fixing rigging fittings.

The 2.4mR TC notes that a possible approach to addressing this apparent contradiction is to add an exclusion for «one thwart for fixing rigging fittings» to CR D.3.1 (a).

The 2.4mR TC agreed to seek advice from World Sailing regarding the «hull» definition.

Other Corrections

The Norwegian Technical Committee submission noted that there is a class rule error with respect to CR A.13.1 (d).

Amended 2.4mR class rules issued by World Sailing with an effective date of 2018-06-01 included the deletion of CR A.13.1 (d). CR A.13.1 (d) permitted equipment in force at the time of the boat fundamental measurement which proved to be impractical to enforce and deletion was approved at the AGM 2018. The Norwegian Technical Committee noted that reference to A.13.1 (d) is included in CR D.2.1, E.2.1, E.4.1 and F.2.1. Peter Russell to prepare CR D.2.1, E.2.1, E.4.1 and F.2.1 change proposal for ICA World Council 2026 approval.

18. 2.4mR AGM 2026

2025.11.05 2.4mR TC confirmed submissions to 2.4mR AGM due 9 December 2025 as follows:

- ❖ 2.4mR & 2.4 NOD compartment opening
- ❖ 2.4mR & 2.4 NOD materials
- ❖ 2.4mR & 2.4 NOD towing fittings
- ❖ 2.4mR & 2.4 NOD ballast
- ❖ 2.4mR A13.1 (d) correction

2025.11.05 2.4mR TC confirmed nominations for 2.4mR TC 2026-2027 as follows:

- ❖ Peter Russell AUS
- ❖ Rikard Bjurstrom FIN
- ❖ Bruce Millar CAN
- ❖ Jon Bjorklund NOR
- ❖ Thomas Jatsch GER (appointed for 2025-2026)

The 2.4mR TC thanked Stellan Berlin for his extraordinary contribution to the 2.4mR class over many years – his years of service have informed his invaluable advice to the 2.4mR TC regarding the background to the class rules.

19. Buoyancy Certifiers

2025.11.05 Thomas Jatsch confirmed certificates forwarded to buoyancy certifiers - Michael Jacobs (GER), Martin Koller (GER), Jan Rischard (GER), Christian Bittner (GER).

20. 2.4mR Measurement Manual Update

2025.11.05 2.4mR Measurement Manual update subject to resolution of 2.4mR measurement training video option.

21. 2.4mR Class Rules Review:

2025.09.03 2.4mR class rule review deferred to December 2025 meeting.

- ❖ 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

22. General Business:

Nil

Next Meeting:

Canada	1.00pm Wednesday 17 December 2025
UK	8.00pm Wednesday 17 December 2025
Sweden	9.00pm Wednesday 17 December 2025
Norway	9.00pm Wednesday 17 December 2025
Germany	9.00pm Wednesday 17 December 2025
Finland	10.00pm Wednesday 17 December 2025
Australia	7.00am Thursday 18 December 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)
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