

International 2.4mR Class Association, Technical Committee

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



2.4mR TC MEETING 3 September 2025

Present

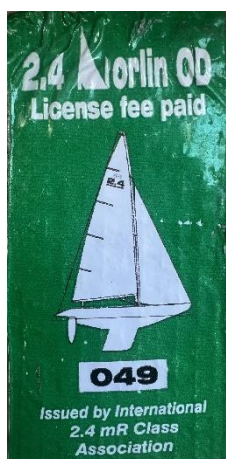
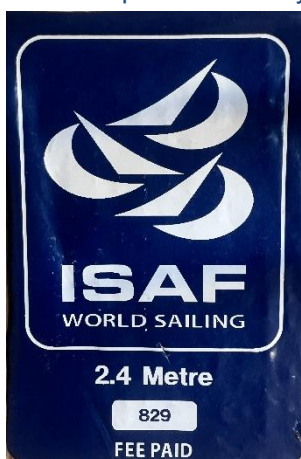
Peter Russell (AUS)
Bruce Millar (CAN)
Rikard Bjurstrom (FIN)
Jon Bjorklund (NOR)
IM Keith Gordon (GBR)

Apologies

Stellan Berlin (SWE)
Thomas Jatsch (GER)

General Business

1. Norway Official Measurer Training Program
2025.09.03 2.4mR Official Measurer training video production ongoing.
2. 2.4 NOD Certificate Procedures Review
2025.09.03. 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.



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
2025.09.03 2.4 NOD boat marketing including pricing preparation ongoing. EC to review 2.4 NOD boat marketing opportunities with Super 3.
4. 2.4 NOD Ontario Yachts Update
2025.09.03 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 mould approval pending prototype 1 boat measurement.
2.4 NOD prototype 1 boat schedule for launch early September with measurement to follow.
TC agreed mould options (subject to purchaser agreement) as follows:
 - ❖ traveller track recess, headsail boom fitting, cockpit headsail sheet mountingsKey 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 fixings to be metric (not imperial).
5. Linked4sailing 2.4mR Builder Accreditation
2025.09.03 Linked4sailing request for builder accreditation ongoing. Linked4sailing noted 30 2.4mR boats built to date supporting sailing programs, 2.4mR measurement required.

6. 2.4mR Inclusive World Championship 2025

2025.09.03 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

No advice from World Sailing regarding 2.4mR Para World Championship 2025 received to date.

2025.09.03 NOR approved by Italian Sailing Federation, NOR published and entries opened by Fraglia Vela Malcesine on 4 June 2025.

2025.09.03 TC noted that draft Sailing Instructions have not been received to date for review – Peter Russell to follow-up with Organising Authority. Keith Gordon/Rijard Bjurström noted that no request for equipment inspection assistance has been received to date - Peter Russell to follow-up with Organising Authority.

2025.09.03 TC noted 60 entries to date from 17 countries and 3 continents – TC noted entries exceed World Sailing International Class participation regulations.

7. 2.4mR Inclusive World Championship 2026

2025.09.03 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 NOR

2025.09.03 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

8. Norway 2.4mR eMeasurement Form Question

2025.09.03 2.4mR pdf measurement form corrections finalised – thanks Bruce Millar & John Finch.

9. Measurer Accreditation

2025.09.03 International Measurer - Thomas Jatsch (GER) advised next World Sailing IM seminar is Denmark late 2025, funding for travel approved by EC.

10. Safety Advice

2025.09.03 Thomas Jatsch safety training advice and photos update ongoing.

11. 2.4 NOD Boat Beam Dimensions Review

2025.09.03 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. Rikard Bjurström suggested tolerances be retained but consider grandfathering of non-compliant boats.

12. Towing Fitting Review

2025.09.03 Current class rule «*A suitable fitting or system in the bow area to enable the boat to be towed.*» Revised draft towing fitting advice reviewed. Wording to be amended to «minimum 12mm internal diameter» deleting reference to towing rope diameter. Standard Charger Norling Mk III bow fitting checked as 12mm outside dimension permitting shackle option. 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.

TC noted forestay fittings to all boats may not be structurally adequate for towing boats which may be swamped and subject to high loads in wave conditions. TC noted that the rule review stems from updating safety ADVICE and needs to consider intent and current practice.

13. Compartment Inspection Opening Review

2025.08.06 Current class rule «*Watertight compartments shall allow for inspection with a hatch opening of minimum 100 mm in diameter.*» Super 3 side compartments measured as limited volume with buoyancy foam infill and drainage holes so damage should not affect boat buoyancy. Wording for ICA World Council submission proposed as follows:

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

TC noted that rule review stems from updating safety ADVICE noting that compartments for buoyancy equipment need to allow for inspection with water in and air out in buoyancy checking.

14. 2.4mR Class Rules Review - 2.4mR hull materials D.3.1 (a) reinforcement plates:

2025.09.03 2.4mR and 2.4 NOD class rules on materials discussed – all 2.4 NOD boats are 2.4mRs so materials discrepancy to be resolved. Wording for ICA World Council submission proposed as follows:

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

2.4mR Class Rules

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**.

2.4 NOD Class Rules

D.2.3 MATERIALS

- (a) The hull shell, keel and deck mouldings shall be built from Glass Reinforced Plastic. Aluminium or stainless steel reinforcements are permitted where required for mounting fittings.

15. 2.4mR Class Rules Review - 2.4mR Waterline Declaration D.6.1 (c)

2025.09.03 2.4mR class rule on Waterline Declaration discussed: Background to Waterline Declaration requirement to be investigated. Waterline declaration form not used by all boat builders. TC noted 2.4mR measurement form can be annotated under rule but no declaration space included on measurement form. Requirement for waterline control by placing the boat in a tank questioned – TC to consider «still water» option. Keith Gordon noted waterline dimension critical for establishing boat rating.

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.

2.4
International 2.4mR
Class Association

WATERLINE LENGTH, LWL, DECLARATION
International 2.4mR Class Rules 2013, V2,
Rules D.6.1(a), D.6.1(b), D.6.1(c), H.2, H.3., H.4.

ISAF/WS Plaque number:
Sail number:
Owner:
Design:
Date of LWL check:

The yacht has been checked under the following conditions:

The boat was in racing conditions according to rule C.5.1 and with salt water density 1.025

- An extra 35 kg of lead ballast placed within 100mm from 0.55% from the bow station LWL or
- For a Norlin Mk.III in fresh water, 28kg of lead ballast placed within 125 mm from the 55% x LWL station or
- For other designs in fresh waterkg lead ballast placed within mm from the 55% x LWL station according to rule H.3
- For other designs salt water (density 1.025)kg lead ballast placed within mm from the 55% x LWL station according to rule H.3.

Strike out non applicable

The Yacht floated to its waterline (LWL)

This is certified by, International 2.4mR Official Measurer

Name
signature.....
date.....

16. 2.4mR Class Rules Review - 2.4mR Builder Declaration D.4.2 (e)

2025.09.03 2.4mR class rule on Builder Declaration discussed. Background to Builder Declaration requirement to be investigated. Builder declaration form not used by all boat builders. TC noted official measurer cannot check hull construction compliance with the class rules without core sampling. Keith Gordon noted that the Builder Declaration is a form of guarantee by the boat builder that the 2.4mR boat is built in accordance with the class rules.

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.



The image shows a '2.4mR Builder Declaration Form' with a large 'X' drawn over it. The form is titled '2.4mR Builder Declaration Form' in blue. Below the title, it says 'I hereby certify that 2.4mR Yacht'. There are two lines for 'WS/World Sailing Plaque Number:' and 'Builder Identification:'. Below these, it states 'Is built in accordance with the 2.4mR Class Rules in force, particularly rules: D.3.1 (a), D.3.2 (a) and (b), D.4.1 (a) and D.4.2 (a) and (b)'. At the bottom, there is a section 'This is certified by:' with lines for 'Builder', 'Signature', and 'Date'. At the very bottom, it says 'International 2.4mR Class Association', 'www.inter24metre.org', and 'Ver 2.0'.

17. 2.4mR Class Rules Review:

2025.09.03 2.4mR class rule review deferred to October 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

18. Buoyancy Certifiers

2025.09.03 Thomas Jatsch to confirm email address for following buoyancy certifiers.

- ❖ Michael Jacobs (GER)
- ❖ Martin Koller (GER)
- ❖ Jan Rischard (GER)
- ❖ Christian Bittner (GER)

19. General Business:

2025.09.03 Keith Gordon noted response to World Sailing request for participation information required. TC noted World Sailing ID details not kept by Organising Authorities.

Next Meeting:

Canada	1.00pm Wednesday 1 October 2025
UK	8.00pm Wednesday 1 October 2025
Sweden	9.00pm Wednesday 1 October 2025
Norway	9.00pm Wednesday 1 October 2025
Germany	9.00pm Wednesday 1 October 2025
Finland	10.00pm Wednesday 1 October 2025
Australia	5.00am Thursday 2 October 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