

GROUP 500 TECHNICAL RULES

AT ANY POINT OF DISCUSSION, THE UIM RULEBOOK 2020 IS APPLABLE

500.01 - CLASSIFICATION OF PLEASURE CRAFT

The competitions are open only to pleasure craft, boats and vessels, as defined by internationally recognised standards for Recreational craft.

500.02

Only the craft whose technical characteristics are registered by and defined as a Recreational Craft by one of the following International Certification Bodies and registered by one of the following Technical Institutions should be considered pleasure craft:

- Europe –CE/ISO Standards (Recreational Craft Directive)
- USA – USCG or State Certified
- Australia/New Zealand – Australia transport Council/Maritime New Zealand
- Japan – Japan Craft Inspection Organisations

Technical Institutions:

- RINA (Italy)
- C.N.S.N.P. (France)
- AMERICAN BUREAU OF SHIPPING (USA)
- DET NORSKE VERITAS (Norway)
- LLOYD'S REGISTER OF SHIPPING (United Kingdom)
- NIPPON KYOKAI JAPAN (Japan)
- GERMANISCHER LLOYD (Germany)

Other recognised similar bodies and institutes can be included to this list as required.

500.03 – CRAFT HOMOLOGATION

All pleasure craft shall bear a certificate issued by official recognised Bodies (see 500.02) which meet relevant laws concerning pleasure navigation in their area of operation.

A Builders plaque attached to the hull is required containing the information as defined by the certification Body and the builders serial number relevant to the boat.

In competitions taking place at sea over six miles from the shore only pleasure boats registered and certified for this type of navigation are permitted.

500.04 – CRAFT DIMENSIONS

The dimensions of the hull – length, beam and weight- will be verified by the technical officers before each race.

Only solid fixed ballast is permitted. The use of water ballast is strictly prohibited. Failure to comply with this rule will result in disqualification.

If boats have devices for loading or unloading water ballast, these devices have to be out of function, closed and sealed for the races. The technical official must check this before and immediately after each race.

500.05 - ENGINES

All engines installed on pleasure craft must be homologated and specified in the craft certificate issued by a certified Technical Body.

An inspection of the engines can be made after the competition is finished; if the engines are not in accordance with those stated in the official documentation the competitor will be disqualified.

500.06 – RACE NUMBERS

The competition number may be painted or fixed as follows :

On a surface corresponding to the following measures and characteristics:

- the surface measures 25 x 40 cm
- the numbers must be painted in black on a white surface on both sites of the hull in digits of 24 x 4 cm the space between the rectangular with the digits must be 8 cm
- the white surface must surround the digits with 4 cm
- in case of a 3 digits number, the length of the surface must be modified consequently

The competition numbers may also be painted or glued to the slightly curved surfaces and on one vertical surfaces provided that the whole number is within 30° from the vertical position.

It is advisable to use two digits only, whenever possible.

For outboards competition, it is recommended that the number be painted twice on the foredeck.

This general rule may change according to what is specified in category / class rules.

Exceptions must be approved by the UIM and mentioned in the advance-programme; the Officer Of the Day may accept exceptions, his final decision being based on effectiveness and readability of the number.

502 – ENDURANCE COMPETITIONS

502.03 - GROUPE 'B'

All recreational boats built in any EC countries, entering the above mentioned Championship must conform to ISOCE regulations (Recreational Craft Directive) currently in force.

All Boats must carry a Builders CE Plate and HIN Code Visible on stern of the Boat.

All open boats must have their bow painted fluorescent Yellow at least 0.5m. The number of riding crew members must be written in black in at least 0.25 m high in the Yellow area.

All closed cockpit boats must have their bow painted fluorescent Orange at least 0.5m. The number of riding crew members must be written in black in at least 0.25 m high in the Orange area.

Minimum number of crew is 2.

The number of crew members must be the same in all heats. The driver must be the same in all heats.

Other crew members can change during the event, but only those who are registered. A maximum of 3 crew members can be registered.

The throttle command has to automatically return to the neutral position when no pressure is exerted on it. The driver cannot accelerate with his hand. The driver can only accelerate with his foot. The co-driver can accelerate with his hand (throttle man).

The deck and engine compartment hatches of the craft must be able to support at any point the weight of a person as per CE certification.

Class Endurance Sport 450 (S) in open boats the water deflector (s) is mandatory.

In ***Class Endurance Sport 450 (S)*** the throttle man is recommended.

In addition, please refer to 502.03.05 - Categories and classes.

502.03.01 – ENGINE CAPACITY

Maximum capacity to be installed

Following on from CE/ISO (Recreational Craft Directive) and similar such regulation. Maximum engine capacity/HP is as specified in the CE certification document of the craft and as declared by the Hull manufacturer. This information may also be included on the Builders Plate

"In addition, please refer to 502.03.05 - Categories and classes.

502.03.02 – RACE NUMBER

The race number shall be displayed on the topsides (port and starboard) of the hull within a dedicated area:

- The numbers on the topsides (port and starboard) shall be displayed on the forward half of the boat
- Numbers and letter must be highlighted in black on a white background
- The letter and number which identify the class shall be put in front of the race number
- The race number and its dedicated area shall have minimum dimensions as indicated below
- Numbers and letter must have a thickness of no less than 50mm

502.03.03 - GENERAL

Pleasure craft with engine capacities not less than 1000 cc. may participate in competitions of Endurance Group B.

If reported in the craft's CE certification or similar, the powering can be made of two identical and independent engines.

During race and practice each person aboard a boat must wear a life jacket which satisfies the "UIM Life Jacket Basic Manufacturing Specifications" dated January 1, 2017 located on the UIM website.

All boats must carry sufficient buoyancy in order to float the hull in the correct way and assist rescue crews in the event of a capsize. Checking the effectiveness of the flotation is the exclusive responsibility of the crew members.

The participation of boats certified/homologated as a unique specimen is not allowed at Class Promotion and Class

Boat Production. The boat manufacturer must build a minimum of 5 similar units of the same model.

Minimum number of crew is 2 persons.

All crew members in cockpit boats must be restrained using a six-point harness and are also subject to a mandatory annual immersion test. A separate air supply for each crew member is also mandatory in cockpit boats and occupied seats must have head restraints.

502.03.04 - MOTORIZATION

For all engines, all drivers must have the "workshop manual" of the owner of the engine.

Motorization provided with any kind of supercharging (excluded direct injection) is not allowed in Super Boat Sport category. Motorization outboard stock provided with supercharging is allowed in Class boat production and class promotion.

The stock steering means (steerage) can be substituted with other more suitable with the sporting pace. In any case all the components must be suitable to the characteristics of the craft and built by specialized firms.

The documentation (original certification of the boat builder and/or original catalogues of the boat builder of the components) proving the suitability of all the parts composing the steering mean, must be shown at the racefield on request of the Technical Commissioner.

The participation of boats certified/homologated as a unique specimen is not allowed at Class Promotion and Class Boat Production. The boat manufacturer must build a minimum of 5 similar units of the same model.

It is not allowed the application to the boats of fixed additional structures; movable awnings are allowed.

The boats not fitted with exhaust gas gathered within the propeller diameter should have the level of sound emission according to the Law 2003/44/CE of the European parliament of 16/06/03.

Older engines can only be updated with current parts if these do not produce increased power or displacement.

All crew members must be attached via lanyard to a kill switch which stops engines if any crew member is being ejected from their normal race position.

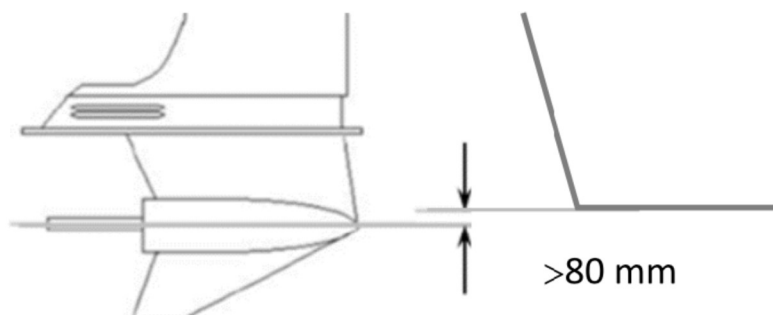
All pleasure boats with LOA from 5.00 m. to 8.99 m. fully conforming to the Boat Certification issued by an appropriate Technical Body, stating the dimensions of the craft and the installed engine capacities, may belong to this category according to the following:

A. CLASS ENDURANCE PROMOTION 150 (P)

Class **Endurance** Promotion **150** includes exclusively boats with Outboard motorization, strictly of stock current production with the following further characteristics specified:

- Mono-engine boat directly on the marketplace with motorization outboard strictly aftermarket as from catalogue of the manufacturer and available on the marketplace
- the only boats allowed are those certified by their respective countries. Boats built in any EC countries, entering the above mentioned championship, must conform to ISO-CE regulations currently in force. The boat builder must be identified through the international code reported on the plate fixed to the boat; as a consequence each boat must have proper plates fixed to it, mentioning:
 - international code of the boat builder
 - identification of the boat: kind of boat - registration number - further data
- any increase of power, coming from the test trial, foreseen by the CE regulations (or regulations of non-EC countries) must be mentioned on the plate of the boat identification
- on board of any boat, as from CE regulations, there must be the “workshop manual” of the owner for the boat and for the engine provided by the boat builder
- each boat must be homologated for transportation of a minimum number of people, not less than 5 (five)
- boats built in only one sample and/or homologated as a only one sample are not allowed
- Inside fittings are free
- **Weight with crew**
- Max power : 150 hp
- The number of cylinders is free
- Minimum number of crew is 2
- **Engine Jack plate are allowed but must be disabled during competition. Maximum Engine height is as per diagram**
- **The power-to-weight ratio is 6.5 kg/hp**
Eg. 150 Hp = 975 kg

Maximum engine height



B. CLASS **ENDURANCE** BOAT PRODUCTION 300 (B)

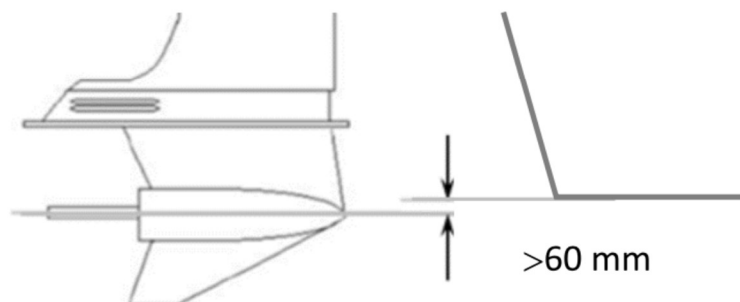
- Production pleasure craft, including fittings, produced in series and in compliance with the specifications of the boat builders, belong to this category
- Fittings are free
- Craft may be fitted with two engines if approval certificate
- Boat equipped with double motorization outboard, when the homologation allows it, anyway always respecting the specific limitations foreseen by art. 502.01 of the safety rules and relevant paragraphs, it is possible to apply powers up to the maximum limit allowed for the Inboard - In-outboard, immediately taking up the minimum weight allowed
- All engine models coming from the standard engine which have been modified in order to increase the performances for sporting activity, even though included in the boat builders catalogue, are not permitted
- The gears-box must allow the following manoeuvres: forward, reverse, and idle with the engine running
- The participation of a boat certified/homologated as unique example is not allowed
- Minimum number of crew is 2
- Maximum allowed HP is 300HP
- **The power-to-weight ratio for this class = 4.9 kg/hp**

Minimum weight as per Power to Weight Ratio Table: for example

| Engine Power | Min. Weight included Crew |
|---------------------|----------------------------------|
| 200 HP | 980 Kg |
| 250 HP | 1225 Kg |
| 300 Hp | 1470 Kg |

- Engine Jack plate are allowed but must be disabled **by a locking bolt** during competition
- Maximum **height of the engine** is **no less than 60 mm in respect of the lowest line of the hull (see diagram)**

Maximum engine height



Technical attachment to the endurance competition rules.

Group B – Class **Endurance** Boat Production **300**

All stock engines are allowed. Only mentioned modifications are allowed:

- Only spare parts provided by the original engine manufacturer are permitted, so as provided by the catalogue and
- the engine exposure.
- Cylinders can be bored up to the increase provided by the engine manufacturer for that model of engine. The increased piston must be original spare parts as provided by point .
- Substitution with non-original parts is allowed only in the following particulars: spark plug, cables, pipes of spark plug, electric wires, nuts and bolts, water pipes, clips, anodes, oil filters, and propellers.
- Any increase of power, coming from engine modification must not exceed the CE regulations (or regulations of non-EC countries) and the Kw/HP as mentioned on the plate of the boat identification;
- Stiffener and the anchorage between the legging and the steering bar in outboard engines are allowed.
- In inboard and out/inboard engines, the use of direct exhaust pipes are allowed. The exhaust pipes must go through the stern mirror. Modification of the exhaust pipes is allowed only after the manifolds and the mixing kind exhaust gas refrigerating water system that must remain original.
- Transmission like racing (for example: Crescent Leading Edge, or lower gear case with nose cone) and surface drive are not allowed.
- The use of multi ratio speed change gear is not allowed.