The Yngling was designed in 1967 by Jan Herman Linge and was adopted as an international class in May 1979.
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Introduction to the International Yngling Class Rules

Hulls and Hull Appendages are built by ISAF licensed builders in accordance with the ISAF International Yngling Construction Manual. Hull and deck moulds emanate from a common master plug controlled by ISAF. Moulds must not be altered in any way by the builder without the written authority of ISAF.

Any alteration of the form or construction of the hull, keel and rudder as supplied by the builder is prohibited unless specifically permitted by these class rules.

Rigs and Sails are controlled by measurement and no restrictions are imposed on the source of manufacture or supply. Variations are permitted within the specifications in Section F and G. Sails shall be certified.

An Yngling shall be equipped in accordance with Section C of these class rules.

The use of exotic materials such as Carbon Fibre and Titanium are prohibited except for use in the tiller and tiller extension, spinnaker pole and proprietary fittings.

This introduction is an integral and binding part of the class rules.
PART I – ADMINISTRATION

Section A – General

A.1 LANGUAGE
A.1.1 The official language of the class is English and in case of dispute over translation the English text shall prevail.
A.1.2 The word “shall” is mandatory and the word “may” is permissive.

A.2 ABBREVIATIONS
A.2.1 ISAF International Sailing Federation
MNA ISAF Member National Authority
IYA International Yngling Association
NYA National Yngling Association
ERS Equipment Rules of Sailing
RRS Racing Rules of Sailing

A.3 AUTHORITIES AND RESPONSIBILITIES
A.3.1 The international authority of the class is the ISAF which shall co-operate with the IYA in all matters concerning these class rules.
A.3.2 Neither the ISAF, the MNA, the IYA, an NYA, the certification authority nor an official measurer is under any legal responsibility in respect of these class rules or accuracy of measurement and no claim arising from them can be entertained.
A.3.3 Notwithstanding anything contained herein, the certification authority has the authority to withdraw a certificate and shall do so on the request of the ISAF.

A.4 ADMINISTRATION OF THE CLASS
A.4.1 In countries where there is no MNA, or the MNA does not wish to administer the class, its functions as stated in these class rules shall be carried out by the IYA which may delegate the administration to an NYA.

A.5 ISAF RULES
A.5.1 These class rules shall be read in conjunction with the ERS.
A.5.2 Except where used in headings, when a term printed in “bold” the definition in the ERS applies and when a term is printed in “italics” the definition in the RRS applies.
A.6 CHAMPIONSHIP RULES
A.6.1 The International Yngling Class Championship Rules shall apply at World and Continental Championships.

A.7 SAILING INSTRUCTIONS
A.7.1 These class rules shall not be varied by sailing instructions except as provided by A.7.2.
A.7.2 At World, Continental or Regional Championships the sailing instructions may vary these class rules with the agreement of the IYA.

A.8 CLASS RULES CHANGES
A.8.1 Amendments to these class rules shall be proposed by the IYA and must be approved by the ISAF in accordance with ISAF Regulation 26.10.

A.9 CLASS RULES INTERPRETATIONS
A.9.1 GENERAL
Interpretations of class rules, except as provided by A.9.2, shall be made in accordance with the ISAF Regulation 26.11.1.
A.9.2 AT AN EVENT
Any interpretation of class rules required at an event may be made by an international jury constituted in accordance with the RRS. Such interpretation shall only be valid during the event and the organising authority shall, as soon as practical after the event, inform the ISAF, the MNA and the IYA.

A.10 INTERNATIONAL CLASS FEE AND ISAF PLAQUE
A.10.1 The licensed builder shall pay the International Class Fee.
A.10.2 ISAF shall, after having received the International Class Fee for the hull, send the ISAF Building Plaque and a measurement form to the licensed hull builder.

A.11 SAIL NUMBERS
A.11.1 The owner shall apply to the MNA, or the NYA when delegated, for a sail number giving the ISAF plaque number and the builder's name.
A.11.2 Numbering shall be national and shall start from “1”. Sail numbers shall be used once only and shall be consecutive.

A.12 CERTIFICATION
A.12.1 For a hull and keel not previously certified, all items required by the measurement form to be measured shall be measured by an official measurer contracted by the builder and the details entered onto the form.
A.12.2 The measurement form, or a certified copy, and any certification fee if required, shall be sent to the certification authority in the country where the hull is to be registered.

A.12.3 Upon receipt of a satisfactorily completed measurement form and certification fee if required, the certification authority shall issue a certificate. The certification authority shall retain the original measurement form. The form shall be transferred to the new certification authority when the hull is exported.

A.13 VALIDITY OF CERTIFICATES

A.13.1 A certificate becomes invalid upon:
(a) change of ownership,
(b) withdrawal by the certification authority,
(c) the issue of another certificate,
(d) any alteration or repair to hull other than permitted routine maintenance,
(e) any alteration to boat corrector weights.

A.14 RE-CERTIFICATION

A.14.1 Upon change of ownership the new owner shall apply to the certification authority in the country where the hull shall be registered for a new certificate. The application shall include the old certificate and any re-certification fee that may be required. In the case of an imported hull the certification authority shall request the measurement form from the previous certification authority. A new certificate shall then be issued to the new owner.

A.14.2 Upon alteration or repair to an item required by the measurement form to be measured the relevant item shall be re-measured by an official measurer and the details entered on a new form. The new form together with the old certificate and any re-certification fee that may be required shall be sent to the certification authority in the country where the hull is registered. A new certificate, showing the dates of initial and new fundamental measurement, may then be issued to the owner.

A.14.3 Upon alteration to boat corrector weights, the boat shall be re-weighed by an official measurer and the details entered on the existing certificate. The certificate and any re-certification fee that may be required shall be sent to the certification authority. A new certificate may then be issued to the owner.
Section B – Boat Eligibility

For a boat to be eligible for racing, the rules in this section shall be complied with.

B.1 CERTIFICATE
B.1.1 The hull shall have a valid certificate including boat corrector position and weight details.

B.2 CERTIFICATION MARKS
B.2.1 Sails shall carry certification marks. See G.1.2.

B.3 FLOTATION CHECKS
B.3.1 A race committee may require that a boat shall pass a flotation test in accordance with Appendix 1.

B.4 CLASS ASSOCIATION STICKER
B.4.1 An IYA class fee sticker for the current year shall be affixed approximately on the centreline of the deck between the rudder stock and the aft edge of the cockpit.
B.4.2 Sails shall carry the IYA Sail Label. See G.1.4.
PART II – REQUIREMENTS AND LIMITATIONS

The rules in Part II are closed class rules. Measurement shall be carried out in accordance with the ERS except where varied in this Part.

The crew and the boat shall comply with the rules in Part II when racing. Measurement to check conformity with rules of Section C is not part of fundamental measurement.

Section C – Conditions for Racing

C.1 GENERAL

C.1.1 RULES

The ERS Part I – Use of Equipment shall apply.

C.2 CREW

C.2.1 LIMITATIONS

The crew shall consist of two or three persons.

C.3 PERSONAL EQUIPMENT

C.3.1 MANDATORY

(a) Personal buoyancy for all crew members.

C.3.2 OPTIONAL

(a) One hiking harness for each crew member. A hiking harness shall not weigh more than 2.5 kg and shall have positive buoyancy in float.

C.4 ADVERTISING

C.4.1 LIMITATIONS

Advertising shall only be displayed in accordance with the RRS Appendix 1 Category C.

C.5 PORTABLE EQUIPMENT

C.5.1 FOR USE

(a) Mandatory

(1) Not less than one hand bailer per crew member and one hand pump. The capacity of each hand bailer shall not be less than 4 litres. The total weight of the hand bailers and the hand pump(s) shall not exceed 4 kg. The hand bailers and the hand pump(s) shall be attached to the boat and stored in the cockpit.
(2) One anchor, or anchor with chain securely attached thereto, and not less than 30 m of rope of not less than 10 mm in diameter securely attached thereto. The total weight of the anchor and chain shall not exceed 8 kg or be less than 6 kg of which the weight of the anchor shall be not less than 4 kg.

(3) The anchor with chain and rope may be stored under the cockpit floor, or under the centre section in hull with double bottom.

(b) Optional

(1) Electronic or mechanical timing devices.

(2) Electronic or magnetic compasses, which may include a timing device and a memory function.

C.5.2 NOT FOR USE

(a) Mandatory

(1) Not less than one paddle minimum 1200 mm long.

C.6 BOAT

C.6.1 WEIGHT

minimum maximum

Weight of boat in dry condition .......................................... 645 kg

The weight shall be taken excluding sails, sheets, portable equipment and personal equipment.

C.6.2 CORRECTOR WEIGHTS

Corrector weights of lead shall be permanently fixed to the lower surface of the deck when the boat weight, as specified in C.6.1, is less than the minimum requirement. The weights shall be placed with approximately two-thirds of the total weight forward and one-third aft of the cockpit. See also rules A.14.3 and B.1.1.

C.7 HULL

C.7.1 MODIFICATIONS AND MAINTENANCE

(a) The hull mouldings shall not be altered in any way except as permitted by these class rules.

(b) The double bottom centre section, or floor boards if hull without double bottom, may be exchanged for other items of similar material, weight and dimensions.

(c) One hole on each side not exceeding 240 mm x 35 mm for two handholds mounted side by side and holes for fittings and other hand holds not exceeding 120 mm in any direction may be made in the deck between the bulkheads.

(d) Holes not bigger than necessary for the installation and passage of body or foot straps and other equipment may be made in the knees and floor boards if any.
(e) Any scribe lines in the external surface of the hull shell at the waterline may be filled.

(f) Hull mouldings may be sanded and painted and/or polished and have scratches repaired providing the shape is not altered.

(g) If any hull moulding is repaired in any other way than described in C.7.1(e), an official measurer shall verify on the certificate that the external shape is the same as before the repair and that no substantial stiffness, or other advantage has been gained as a result of the repair. The official measurer shall also describe the details of the repair on the certificate.

C.7.2 FITTINGS

(a) Mandatory

(1) A mast support under deck, which is not adjustable when racing, not weighing less than 0.8kg.

(2) Mainsheet attachment point(s) or track with traveller fitted to the deck aft of the rudder stock.

(b) Optional

(1) One draining hole with a maximum inner diameter of 30 mm in each buoyancy compartment with a plug.

(2) Not more than four self-bailers.

(3) Deck handles that shall not exceed 75 mm in height above deck and, if of rigid material, shall not extend outboard of the hull.

(4) Not more than five hand holds through each side deck which shall be reasonably watertight

(5) Foot straps fastened inside the cockpit.

(6) Body straps fastened inside the cockpit or on deck.

(7) One control panel or dashboard arrangement fitted between the cabin sides, or the side decks provided it is nowhere closer than 180 mm to the hull shell.

(8) Sheet winches without a mechanical advantage.

(9) Devices, with the exception of winches, attached to the top of the deck to tension or hold mainsail and jib halyards.

(10) Halyard cleats.

(11) Backstay attachments, blocks, fairleads and cleats

(12) Mainsheet track traveller control blocks, fairleads and cleats.

(13) Mainsheet blocks at the mainsail attachment point or track traveller and in the cockpit, one of which may be a ratchet block, and cleats.

(14) A bridge, console or other attachment point for a mainsheet block in the cockpit which shall be not less than 250 mm vertically below the top of cockpit coaming closest to the attachment point.

(15) Mainsail Cunningham blocks, fairleads and cleats.

(16) Mainsail reefing fairleads, blocks and cleats.
(17) Jib sheet tracks, blocks of which one at each side may be a ratchet block, fairleads and cleats.
(18) Jib Cunningham blocks, fairleads and cleats.
(19) Jib Barber hauler fairleads, blocks and cleats.
(20) Spinnaker boom lift and downhaul blocks, fairleads and cleats.
(21) Spinnaker sheet and guy blocks one of which at each side may be a ratchet block, fairleads, hooks and cleats.
(22) Spinnaker Barber hauler blocks, fairleads and cleats.
(23) A stemhead cover.
(24) Tiller lock.
(25) Stowage clips for paddle(s), spinnaker pole, sail bags and other equipment.
(26) Deck clips for cockpit cover and/or tent
(27) Compass mounting.
(c) Use
(1) Bulkhead inspection covers shall be securely locked in their positions.
(2) Double bottom centre section if hull with double bottom, or floor boards if hull without double bottom, shall be in place.
(3) Body straps shall only be used at the same time as foot straps and shall not enable a different position to be adopted than would be possible in their absence.
(4) No body straps or foot straps shall prevent its user from instantly releasing himself/herself from the hull.

C.8 HULL APPENDAGES

C.8.1 LIMITATIONS
Only one keel and one rudder shall be used during an event, except when a hull appendage has been lost or damaged beyond repair. Such replacement may be made only with the approval of the race committee. The race committee shall then remove or cross out any event limitation mark attached to the replaced hull appendage.

C.8.2 MODIFICATIONS AND MAINTENANCE
(a) Hull appendages may be filled, sanded, painted and polished provided they comply with Appendix 4 and 5.
(b) A glassed over keel–hull shell joint may be opened up to remove the keel and may be repaired after the keel is refitted.
(c) The type of tiller and tiller extension is optional.
C.9  RIG

C.9.1  LIMITATIONS
Only one set of spars and standing rigging shall be used during an event, except when an item has been lost or damaged beyond repair. Such replacement may be made only with the approval of the race committee. The race committee shall then remove or cross out any event limitation mark attached to a replaced spar.

C.9.2  MAST

(a) Construction
The gooseneck construction shall prevent the boom spar from being set in a position that does not comply with ERS B.7.1

(b) Fittings
The following is optional:
(1) not more than two spinnaker pole fittings, which maybe on a track, provided that the maximum spinnaker pole fitting height can not be exceeded. Any spinnaker pole track may not extend more than 50mm above the maximum spinnaker pole fitting height,
(2) spinnaker pole downhaul block with attachment,
(3) kicking strap blocks,
(5) Devices, with the exception of winches, to tension and/or hold mainsail and jib halyards,
(6) one mechanical wind indicator,
(7) one compass bracket.

(c) Dimensions
Mast datum point: see F.2.1.

<table>
<thead>
<tr>
<th>Distance from the mast datum point to the intersection of the top of the deck and the aft face of the spar</th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>495 mm</td>
<td>505 mm</td>
</tr>
</tbody>
</table>

Longitudinal distance from forward face of spar at deck to breakwater measurement point as defined in D.1.3 (b).

<table>
<thead>
<tr>
<th>Mast spar curvature anywhere between the mast datum and 5300 above the datum</th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>40 mm</td>
</tr>
</tbody>
</table>

(d) Use
(1) The spar shall be stepped on the cabin top.
(2) The mast heel position shall not be adjusted.
(3) Spreader position, length and angle shall not be adjusted.
C.9.3 BOOM

(a) **Fittings**

The following is optional:

1. two mainsheet blocks and not more than two wire strops for mainsheet blocks,
2. kicking strap blocks,
3. mainsail clew outhaul blocks, fairleads and attachments,
4. spinnaker pole stowage fittings,
5. reefing hooks, blocks, fairleads and attachments.

(b) **Dimensions**

<table>
<thead>
<tr>
<th></th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Limit mark width</strong></td>
<td></td>
<td>10 mm</td>
</tr>
<tr>
<td><strong>Boom point distance</strong></td>
<td></td>
<td>2600 mm</td>
</tr>
<tr>
<td><strong>Boom spar curvature</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>forward of outer limit</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>mark</strong></td>
<td></td>
<td>25 mm</td>
</tr>
</tbody>
</table>

C.9.4 SPINNAKER BOOM

(a) **Fittings**

Fittings are optional.

C.9.5 STANDING RIGGING

(a) **Fittings**

The following is mandatory:

1. one rigging link or screw for each shroud.

The following is optional:

2. one forestay rigging screw,
3. fittings for adjustment of the backstay with the exception of hydraulic systems.

(b) **Construction**

1. The backstay shall be attached to the masthead.

C.9.6 RUNNING RIGGING

(a) **Materials**

Materials are optional.

(b) **Construction**

Mandatory:

1. mainsail halyard,
2. mainsail sheet,
3. kicking strap,
4. jib halyard,
(5) jib sheets,
(6) spinnaker halyard,
(7) spinnaker sheet and guy,
(8) spinnaker pole lift and downhaul.

Optional:
(9) mainsail Cunningham line,
(10) mainsail clew outhaul,
(11) mainsail track control lines,
(12) jib Cunningham line,
(13) two jib Barber haulers consisting of a single line with block or eye to run on the jib sheet and capable of modifying the sheeting angle in one direction only,
(14) two spinnaker Barber haulers of a single line with block or eye to run on the spinnaker sheet or guy and capable of modifying the sheeting angle in one direction only,
(15) reefing lines,
(16) jib furling gear which shall be attached to the forestay fitting.

(c) Use
(1) The jib shall not be furled.
(2) All halyard arrangements shall allow sails to be taken down by crewmembers standing in the cockpit and/or on the deck. Mainsail and jib halyard release points shall be either above deck or aft of the forward breakwater measurement point and above the sheer-line.

C.10 SAILS

C.10.1 LIMITATIONS
(a) Not more than one mainsail, two jibs and one spinnaker shall be carried aboard.
(b) Not more than one mainsail, two jibs and one spinnaker shall be used during an event, except when a sail has been lost or damaged beyond repair. Such replacement may be made only with the approval of the race committee. The race committee shall then remove or cross out any event limitation mark attached to a replaced sail.

C.10.2 MODIFICATION AND MAINTENANCE
Routine maintenance such as repairing minor tears is permitted without re-measurement and re-certification.

C.10.3 MAINSAIL
(a) Identification
The sail numbers shall comply with the RRS.
(b) Use
Luff and foot bolt ropes shall be in the spar sail grooves.
C.10.4 JIB

(a) Use

(1) The sail shall be capable of being removed without disconnecting the forestay.

(2) The tack shall be fixed to the forestay fitting on deck or the jib furling gear by a shackle or similar device and shall not be adjustable up and down.

C.10.5 SPINNAKER

(a) Identification

The sail numbers shall comply with the RRS.

Section D – Hull

D.1 GENERAL

D.1.1 RULES

The hull shall comply with the class rules in force at the time of initial certification.

D.1.2 CERTIFICATION

See A.12.

D.1.3 DEFINITIONS

(1) Hull Datum Point

The intersection on the hull between the underside of the hull shell and the transom extended as necessary.

(2) Fwd Breakwater Measurement Point

The point on the hull centreplane at the forward edge of the breakwater one half of the breakwater height above the cabin top.

(3) Aft Breakwater Measurement Point

The point on the hull centreplane at the aft edge of the cockpit coaming one half of the coaming height above the deck.

(4) Stem Datum Point

The foremost point on the deck, extended to meet an extension of the deck flange, excluding and stemhead cover.

(5) Aft Deck Datum Point

The point on each aft corner of the aft deck at the intersection of the planes extending the deck flange over the topsides and the transom and the upper surface of the deck.

(6) Section Template Reference Points
On all boats built or re-measured after 1 April 2002, Reference Points for positioning the 4 section templates shall be marked on the external hull centerline and the deck flange in accordance with the Measurement Diagram Appendix 3A. The point shall consist of a 2.5mm diameter hole approximately 2mm deep drilled at the center of the measurement mark and filled with a material of contrasting colour. The point may not be removed or obliterated.

D.1.4 IDENTIFICATION
The hull shall carry permanently fixed:
(a) the ISAF Plaque on the forward face of the aft bulkhead,
(b) the Designer's Plaque on the aft end of the cockpit coaming, or on the forward face of the aft bulkhead,
(c) a Builder's Plaque adjacent to the ISAF Plaque. The plaque shall show the builder's name, the ISAF plaque number, the hull shell mould number and the hull serial number and the year built.

D.1.5 BUILDERS
(a) The hull shall be built by a builder licensed by ISAF.
(b) The builder shall use production moulds obtained from official suppliers approved by the ISAF. The builder shall not alter the shape of these moulds unless specifically authorised in writing by ISAF.

D.2 HULL COMPONENTS
D.2.1 The hull components are: the hull shell, the bulkheads, the deck, the knees, the floor and deck beams and the double bottom, or the side tanks with floor boards and the mast support.

D.2.2 MATERIALS
Shall comply with the Yngling Construction Manual issued by ISAF.

D.2.3 CONSTRUCTION
Shall comply with the Yngling Construction Manual issued by ISAF.

D.3 ASSEMBLED HULL
D.3.1 BUOYANCY
(a) Blocks of buoyant rigid foam or expanded polystyrene shall be placed in the forward and aft buoyancy compartments.
(b) Buoyancy materials shall not be structurally fixed to hull or deck
(c) Sufficient buoyancy material shall be distributed such that the boat passes the Buoyancy test (Appendix 1).

D.3.2 FITTINGS
The following fittings shall be fitted:
(a) one bollard on the deck in front of the forestay attachment point and one bollard on the deck aft of the rudder stock. The bollards shall be made of
solid stainless steel minimum 9.3 mm diameter and each bollard shall be attached with not less than two threaded nuts of minimum M10 or 3/8”.

The following fittings shall be fitted in accordance with the Construction Manual:

(b) One side deck stanchion each side between the deck and the double bottom.

(c) one watertight cover in each bulkhead,

(d) one watertight sealed centre section hatch that provides access to the keel bolts if the hull is fitted with a double bottom,

(e) one lifting eye strap weighing not more than 2 kg attached to the keel bolts,

(f) two chain plates on each side,

(g) one forestay attachment which shall be of stainless steel.

D.3.3 DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hull length</td>
<td>6340 mm</td>
<td>6370 mm</td>
</tr>
<tr>
<td>Radius between outside of transom and outside of hull shell</td>
<td>4 mm</td>
<td></td>
</tr>
<tr>
<td>Thickness of a plywood double bottom centre section</td>
<td>14 mm</td>
<td></td>
</tr>
<tr>
<td>Longitudinal distance from centre of forestay attachment hole in forestay fitting to stem datum point</td>
<td>385 mm</td>
<td>395 mm</td>
</tr>
<tr>
<td>Longitudinal distance from centre of shroud attachment hole in chain plate fittings in front of aft breakwater datum point</td>
<td>1830 mm</td>
<td>1860 mm</td>
</tr>
<tr>
<td>Shortest horizontal distance from centre of shroud attachment hole in chain plate fittings to outside edge of deck</td>
<td>60 mm</td>
<td></td>
</tr>
<tr>
<td>Height of double bottom above inner surface of the hull above the keel flange</td>
<td>325 mm</td>
<td>375 mm</td>
</tr>
<tr>
<td>Rudder stock centreline to hull datum point</td>
<td>1045 mm</td>
<td>1075 mm</td>
</tr>
<tr>
<td>Total volume of fore and aft buoyancy compartment buoyancy blocks</td>
<td>0.56 m³</td>
<td></td>
</tr>
</tbody>
</table>

Section E – Hull Appendages

E.1 GENERAL

E.1.1 RULES

Hull appendages shall comply with the class rules in force at the time of initial fundamental measurement of the hull.

E.1.2 BUILDERS

(a) The hull appendages shall be built by builders licensed by ISAF.
(b) The builder shall use the casting pattern for the **keel** core obtained from an official supplier approved by ISAF. The builder shall not alter the shape of the casting pattern unless specifically authorised in writing by ISAF.

### E.2 KEEL

#### E.2.1 CERTIFICATION

See A.12.

#### E.2.2 MATERIALS

(a) Shall comply with the Yngling Construction Manual issued by ISAF.

#### E.2.3 DIMENSIONS

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radius of leading and trailing edges</td>
<td>2 mm</td>
</tr>
<tr>
<td>Distance on hull centreplane from hull datum point to a point on aft edge of keel 50 mm above lower edge of the keel</td>
<td>2725 mm .. 2765 mm</td>
</tr>
<tr>
<td>Depth of the keel measured at section 2</td>
<td>800 mm</td>
</tr>
</tbody>
</table>

The keel shall be checked with templates in accordance with Appendix 4.

#### E.2.4 WEIGHTS

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of the iron core</td>
<td>305 kg .. 315 kg</td>
</tr>
</tbody>
</table>

### E.3 RUDDER

#### E.3.1 MATERIALS

Shall comply with the Yngling Construction Manual issued by ISAF.

#### E.3.2 CONSTRUCTION

Shall comply with the Yngling Construction Manual issued by ISAF.

#### E.3.3 DIMENSIONS

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sectional radius of rudder blade edges</td>
<td>2 mm</td>
</tr>
<tr>
<td>Diameter of rudder stock</td>
<td>22 mm</td>
</tr>
</tbody>
</table>

The rudder shall comply with Appendix 5.

#### E.3.4 WEIGHTS

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight of rudder blade and stock</td>
<td>6 kg</td>
</tr>
</tbody>
</table>
Section F – Rig

F.1 GENERAL

F.1.1 RULES
Rig components shall comply with these class rules.

F.1.2 MANUFACTURERS
Manufacturers are optional.

F.1.3 CERTIFICATION
No certification is required.

F.2 MAST

F.2.1 DEFINITIONS
Mast Datum Point
The mast datum point shall be the lower mast point.

F.2.2 MATERIALS
The spar shall be of aluminum alloy to the International 6000 Series Specifications. The spar maybe be anodized, painted or powder coated.

F.2.3 Construction
(a) The spar extrusion shall include an integral sail groove.
(b) The spar extrusion shall be one single length and of constant section with the exception that the upper part of the spar shall be uniformly tapered.
(c) The sail groove may be opened up and/or the sides of the sail groove may be cutback providing the fore and aft dimensions is reduced by not more than 15mm below a point 350 mm above the mast datum point.
(d) The spreaders shall be attached above the lower shroud rigging point.

F.2.4 FITTINGS
The following fittings shall be fitted:
(a) one pair of spreaders with fittings which maybe adjusted at the spreader,
(b) one mast head fitting which may include the mainsail halyard sheave,
(c) shroud fittings,
(d) forestay fitting,
(e) mainsail halyard sheave box,
(f) jib halyard sheave box,
(g) spinnaker halyard block with attachment or sheave box with optional tripod fairlead,
(h) spinnaker pole fittings which may include a track,
(i) spinnaker pole lift sheave box or block with attachment,
(j) gooseneck,
(k) kicking strap attachment,
(l) heel fitting which may include sheaves for halyards.

F.2.5 DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limit mark width</td>
<td>........</td>
<td>10 mm</td>
</tr>
<tr>
<td>Mast spar cross section of non tapered extrusion:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fore-and-aft</td>
<td>89 mm</td>
<td>95 mm</td>
</tr>
<tr>
<td>transverse</td>
<td>61 mm</td>
<td>67 mm</td>
</tr>
<tr>
<td>Mast spar cross section at the upper point:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fore-and-aft</td>
<td>66 mm</td>
<td>74 mm</td>
</tr>
<tr>
<td>transverse</td>
<td>52 mm</td>
<td>58 mm</td>
</tr>
<tr>
<td>Mast datum point to beginning of spar taper</td>
<td>4500 mm</td>
<td></td>
</tr>
<tr>
<td>Upper point height</td>
<td>..........</td>
<td>6800 mm</td>
</tr>
<tr>
<td>Spinnaker hoist height</td>
<td>5240 mm</td>
<td>5360 mm</td>
</tr>
<tr>
<td>Forestay height</td>
<td>5200 mm</td>
<td>5300 mm</td>
</tr>
<tr>
<td>Upper shroud height</td>
<td>5250 mm</td>
<td>5350 mm</td>
</tr>
<tr>
<td>Lower shroud height</td>
<td>2450 mm</td>
<td>2550 mm</td>
</tr>
<tr>
<td>Distance from fwd face of spinnaker sheave to fwd face of mast</td>
<td></td>
<td>60 mm</td>
</tr>
<tr>
<td>Spreader;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>length</td>
<td>..........</td>
<td>590 mm</td>
</tr>
<tr>
<td>Spinnaker pole fitting:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>height</td>
<td>..........</td>
<td>1000 mm</td>
</tr>
<tr>
<td>projection</td>
<td>..........</td>
<td>45 mm</td>
</tr>
<tr>
<td>Mast spar deflection when loaded with 50 kg at 2650mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>from the mast datum point measured at 2650 from datum (supported between the datum and 5300 above the datum):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>fore-and-aft</td>
<td>35 mm</td>
<td>45 mm</td>
</tr>
<tr>
<td>Distance from mast datum point to the centre of Gravity of the mast</td>
<td>3045 mm</td>
<td></td>
</tr>
<tr>
<td>NOTE: Highlighted mast spar values are still under investigation so values are provisional</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

F.2.6 WEIGHTS

<table>
<thead>
<tr>
<th></th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>..........</td>
<td>17 kg</td>
</tr>
</tbody>
</table>

F.3 BOOM

F.3.1 MATERIALS

The spar shall be of aluminum alloy to the International 6000 Series Specifications. The spar maybe be anodized, painted or powder coated.
F.3.2 Construction
(a) The spar extrusion shall be of constant section and shall include an integral sail groove.
(b) The sail groove may be cutaway at each end to permit entry of the mainsail.

F.3.3 FITTINGS
The following fittings shall be fitted:
(a) two mainsheet block attachments one being at the aft end of the spar,
(b) a clew attachment arrangement,
(c) a kicking strap fitting,
(d) a gooseneck attachment.

F.3.4 DIMENSIONS

<table>
<thead>
<tr>
<th>Boom spar cross section of extrusion</th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>vertical</td>
<td>69 mm</td>
<td>75 mm</td>
</tr>
<tr>
<td>transverse</td>
<td>51 mm</td>
<td>57 mm</td>
</tr>
<tr>
<td>Limit of sail groove cutaway</td>
<td></td>
<td>200 mm</td>
</tr>
</tbody>
</table>

F.4 SPINNAKER POLE

F.4.1 MATERIALS
Spar material is optional.

F.4.2 CONSTRUCTION
Construction is optional.

F.4.3 FITTINGS
Fittings are optional.

F.4.4 DIMENSIONS

<table>
<thead>
<tr>
<th>Spinnaker pole length</th>
<th>minimum</th>
<th>maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2015 mm</td>
</tr>
</tbody>
</table>

F.5 STANDING RIGGING

F.5.1 MATERIALS
The standing rigging shall be of 1 x 19 strand stainless steel wire minimum 3 mm in diameter.

F.5.2 CONSTRUCTION
The following is mandatory:
(a) one forestay,
(b) one pair of upper shrouds,
(c) one pair of lower shrouds,
(d) one backstay.
Section G – Sails

G.1 GENERAL

G.1.1 RULES

Sails shall comply with the class rules in force at the time of certification.

G.1.2 CERTIFICATION

(a) The official measurer shall certify mainsails and jibs in the tack and spinnakers in the head and date the certification mark with the date of fundamental measurement.

(b) An MNA may appoint one or more persons at a sailmaker to measure and certify sails produced by that manufacturer. A special license shall be awarded for that purpose.

(c) The weight in g/m² of the body of the sail shall be indelibly marked near the head point by the sailmaker together with the date and his signature or stamp.

G.1.3 SAILMAKERS

Sailmaker is optional.

G.1.4 IYA SAIL LABEL

The official IYA sail label shall be permanently attached in the tack in mainsails and jibs and in the head in spinnakers. Sail labels shall be obtained from the NYA, or in the case of difficulty from the IYA.

G.2 MAINSAIL

G.2.1 IDENTIFICATION

The class insignia shall comply with Appendix 2 and the RRS.

G.2.2 CONSTRUCTION

(a) The construction shall be: Soft sail, single ply sail.

(b) Except within 250mm of the foot, the body of the sail, shall consist of the same woven ply throughout. The ply fibres shall be of polyester.

(c) There shall be three batten pockets in the leech.

(d) The leech shall not extend aft of straight lines between:

1. the aft head point and the intersection of the leech and the upper edge of the nearest batten pocket,

2. the intersection of the leech and the lower edge of a batten pocket and the intersection of the leech and the upper edge of an adjacent batten pocket below,

3. the clew point and the intersection of the leech and the lower edge of the nearest batten pocket.

(e) The following are permitted: Stitching, glues, tapes, bolt ropes, corner eyes, headboard with fixings, Cunningham eye or pulley, reefing eyes,
batten pocket elastic, leech line with cleat, two **windows**, telltales, sail shape indicator stripes.

G.2.3 DIMENSIONS

<table>
<thead>
<tr>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leech length</td>
<td>7200 mm</td>
</tr>
<tr>
<td>Quarter width</td>
<td>2220 mm</td>
</tr>
<tr>
<td>Half width</td>
<td>1660 mm</td>
</tr>
<tr>
<td>Three-quarter width</td>
<td>960 mm</td>
</tr>
<tr>
<td>Top width</td>
<td>155 mm</td>
</tr>
<tr>
<td>Weight of ply of the <strong>body of the sail</strong></td>
<td>180 gr/m²</td>
</tr>
<tr>
<td><strong>Primary reinforcement</strong></td>
<td>355 mm</td>
</tr>
</tbody>
</table>

**Secondary reinforcement:**

- from **sail corner measurement points** | 1065 mm |
- for **chafing patches** | 1065 mm |
- at a reefing point adjacent to **luff or leech** | 1065 mm |
- for **flutter patches** | 120 mm |
| Total window area | 0.3 m² |
| **Window to sail edge** | 150 mm |

**Extension of headboard from head point** | 145 mm |

**Batten pocket length:**

- top pocket:
  - **inside** | 530 mm |
- other pockets:
  - **inside** | 730 mm |

**Batten pocket width:**

- **inside** | 60 mm |

**Head point** to intersection of leech and centreline

- of uppermost **batten pocket** | 1780 mm |

**Clew point** to intersection of leech and centreline

- of lowermost **batten pocket** | 1780 mm |

G.3 JIB

G.3.1 CONSTRUCTION

(a) The construction shall be: **Soft sail, single ply sail.**

(b) The **body of the sail** shall consist of the same **woven ply** throughout. The ply fibres shall be of polyester.

(c) There shall be two **batten pockets** in the leech.

(d) The **leech** shall not extend outside a straight line from the aft **head point** to the **clew point**.

(e) The following are permitted: Stitching, glues, tapes, corner eyes, Cunningham eye or pulley, hanks, batten pocket elastic, leech line with cleat, two **windows**, telltales, sail shape indicator stripes.
G.3.2 DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luff length</td>
<td>5700 mm</td>
<td></td>
</tr>
<tr>
<td>Leech length</td>
<td>5300 mm</td>
<td></td>
</tr>
<tr>
<td>Foot length</td>
<td>1950 mm</td>
<td></td>
</tr>
<tr>
<td>Foot median</td>
<td>5620 mm</td>
<td></td>
</tr>
<tr>
<td>Top width</td>
<td>35 mm</td>
<td></td>
</tr>
<tr>
<td>Foot irregularity</td>
<td>20 mm</td>
<td></td>
</tr>
<tr>
<td>Weight of the ply of the body of the sail</td>
<td>180 gr/m²</td>
<td></td>
</tr>
<tr>
<td>Primary reinforcement</td>
<td></td>
<td>320 mm</td>
</tr>
<tr>
<td>Secondary reinforcement:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>from sail corner measurement points</td>
<td>960 mm</td>
<td></td>
</tr>
<tr>
<td>for chafing patches</td>
<td>960 mm</td>
<td></td>
</tr>
<tr>
<td>for flutter patches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total window area</td>
<td>0.3 m²</td>
<td></td>
</tr>
<tr>
<td>Window to sail edge</td>
<td>150 mm</td>
<td></td>
</tr>
<tr>
<td>Batten pocket length:</td>
<td></td>
<td>280 mm</td>
</tr>
<tr>
<td>inside</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batten pocket width:</td>
<td></td>
<td>60 mm</td>
</tr>
<tr>
<td>inside</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Head point to intersection of leech and centreline of top batten pocket</td>
<td>1730 mm</td>
<td></td>
</tr>
<tr>
<td>Clew point to intersection of leech and centreline of lower batten pocket</td>
<td>1730 mm</td>
<td></td>
</tr>
</tbody>
</table>

G.4 SPINNAKER

G.4.1 CONSTRUCTION

(a) The construction shall be: Soft sail, single ply sail.
(b) The body of the sail shall consist of the same woven ply throughout. The ply fibres shall be of polyester or polyamide.
(c) The following are permitted: Stitching, glues, tapes, corner eyes, telltales.

G.4.2 DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leech lengths</td>
<td>5600 mm</td>
<td>5800 mm</td>
</tr>
<tr>
<td>Foot length</td>
<td></td>
<td>4000 mm</td>
</tr>
<tr>
<td>Foot median</td>
<td></td>
<td>6600 mm</td>
</tr>
<tr>
<td>Quarter width</td>
<td></td>
<td>4700 mm</td>
</tr>
<tr>
<td>Half width</td>
<td></td>
<td>4200 mm</td>
</tr>
<tr>
<td>Three-quarter width</td>
<td></td>
<td>2300 mm</td>
</tr>
<tr>
<td>Difference between diagonals</td>
<td></td>
<td>20 mm</td>
</tr>
<tr>
<td>Weight of the ply of the body of the sail</td>
<td>38 gr/m²</td>
<td></td>
</tr>
<tr>
<td>Primary reinforcement</td>
<td></td>
<td>320 mm</td>
</tr>
<tr>
<td>Secondary reinforcement:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
from *sail corner measurement points* ......................... ..... 960 mm
PART III – APPENDICES

Appendix 1 – Flotation Check

All hatches and draining plugs shall be open and the **hull** shall be totally filled with water. To ensure this, the **boat** shall, when filled with water, be tipped 30° to each side where after the **crew** shall go first to the stern then to the stem. The **boat** shall then float level with the **crew** in the cockpit area.

Effective: 7th April 2003

Previous issues: 2001, 2002 and 1st March 2003
International YNGLING Class
Measurement Diagram - Appendix 4

KEEL TEMPLATE ARRANGEMENT

KEEL TO HULL = MIN. 25mm RADIUS

TEMPLATES END
STOP AGAINST
LEADING EDGE

AFT OF THIS POINT TAPER
BOTTOM RADIUS TO MIN. 2mm

BASELINE =
UNDERSIDE OF KEEL

BOTTOM RADIUS MIN. 20mm

90%

10%

92 +/- 12

489 +/- 2

391 +/- 2

293 +/- 2

733 +/- 12

NOTE:
DIMS SAME FOR LEADING
AND TRAILING EDGES

IN CASE THE UNDERSIDE IS NOT STRAIGHT -
USE STUDS OR SPACERS AT APPROX. 10% AND 90%

TOLERANCES:
1. LEADING AND TRAILING EDGE MUST
NOT DEVIATE MORE THAN 2mm FROM
A STRAIGHT EDGE PLACED ALONG
ITS LENGTH (EXCLUDING THE FIRST
AND LAST 75mm).
2. SECTION SHAPE TO HAVE A TOLERANCE
OF +/- 2mm FROM DESIGN SHAPE (8-12mm
CLEARANCE FROM TEMPL. EDGE).

Designer: Jan H. Linge

NOT TO SCALE
TOLERANCES:

1. RUDDER PROFILE SHOULD NOT DEVIATE MORE THAN +/- 5mm FROM DIMENSIONS SHOWN.
2. SECTION SHAPE TO HAVE A TOLERANCE OF +/- 1mm FROM TEMPLATE SHAPE (4-6mm CLEARANCE FROM TEMPL. EDGE).

RUDDER TEMPLATE ARRANGEMENT

NOTES:

1. BLADE TO HAVE A STRAIGHT TAPER.

THE TEMPLATES SHALL BE POSITIONED:
- AGAINST THE LEADING EDGE WHEN MEASURING THE FORWARD END BACK TO THE THICKEST SECTION.

Designer: Jan H. Linge

NOT TO SCALE