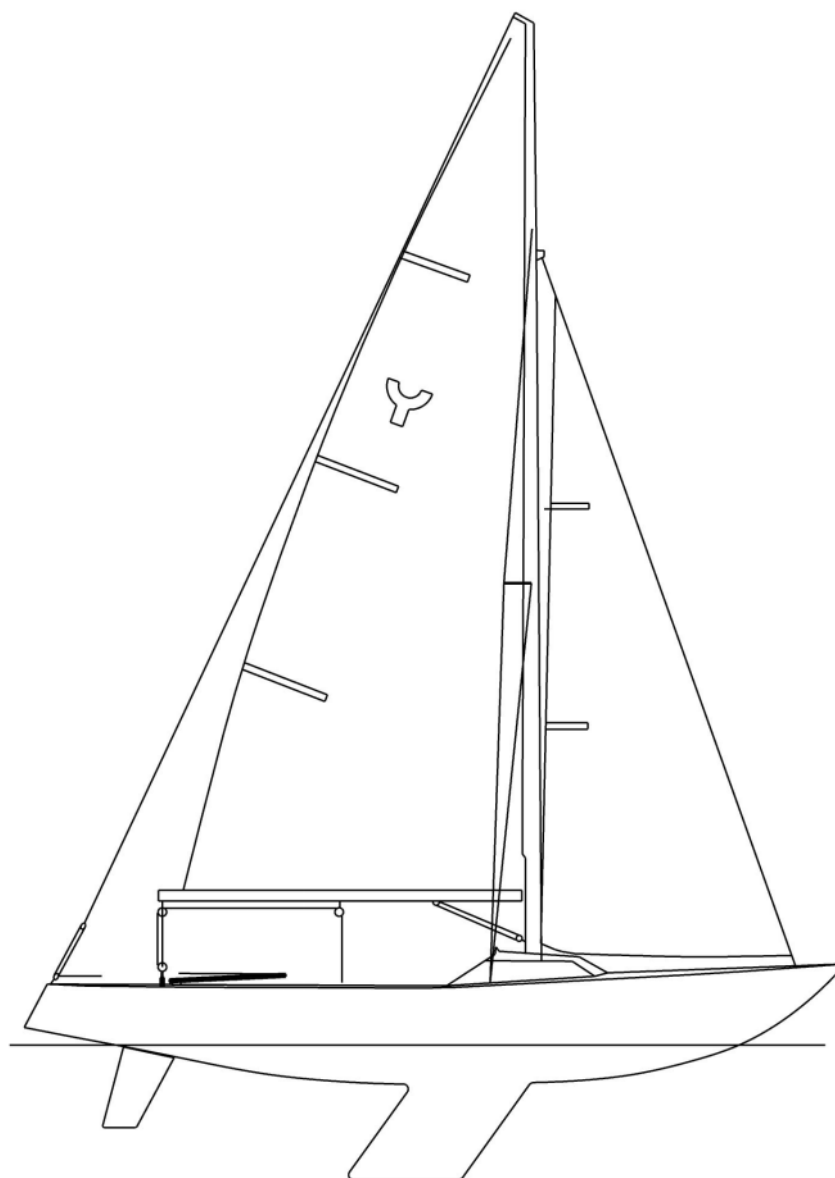


INTERNATIONAL YNGLING CLASS RULES 2006



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

This introduction is an integral and binding part of the 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 is prohibited except for the use of: carbon fibre in the tiller; carbon fibre in the tiller extension, carbon fibre in the spinnaker pole, carbon fibre in blocks; and carbon fibre in cleats.

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** and their interpretation for the purposes of RRS 64.3 (b).
- 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 a NYA.

A.5 ISAF RULES

- A.5.1 These **class rules** shall be read in conjunction with the **RRS and the ERS, except that ERS section H.2.1 shall not apply.**
- A.5.2 Except where used in headings, when a term is printed in “**bold**” the ERS shall apply and when a term is printed in “*italics*” the RRS shall apply.

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 Interpretations of **class rules** shall be made in accordance with ISAF regulation 26.

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 an International Yngling Class **certificate**. The **certification authority** shall retain a certified copy of the original measurement form. The form shall be transferred to the new **certification authority** when the **hull** is exported.
- A.12.4 No yacht shall race unless a current, valid International Yngling Class **certificate** has been issued by the **certification authority**.

- A.12.5 **Fundamental measurement** of Yngling **hulls** shall only be performed by an **official measurer** recognized by the International Yngling Association, who shall send a copy of the hull measurement form to the IYA.

A.13 **VALIDITY OF CERTIFICATES**

- A.13.1 A hull **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 the **hull** other than permitted routine maintenance,
 - (e) any alteration to the 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 **certification control**, may then be issued to the owner.
- A.14.3 The **corrector weights** shall only be changed with the permission of an **official measurer** after a re-weighing of the **boat**. The **official measurer** shall enter the details on the existing certificate and notify the **certification authority** (within 2 weeks) of these details. 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 International Yngling Class **Certificate** with the following data; the name and signature of the issuer, the official stamp of the **certification authority**, the **hull** builder's number, as moulded or engraved on the **hull**, the ISAF plaque number, the sail number, the **hull** weight, the **corrector weights** and their positions. The **certification authority** may publish the **certificate**, without signature or stamp, on a secure web site.

B.2 CERTIFICATION MARKS

- B.2.1 **Sails** and **Mast** shall carry **certification marks**. See G.1.2. & F.1.4

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 STICKERS

- 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
- B.4.3 **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.2.2 WOMEN'S CREW WEIGHT

For women's ISAF grade I, II and III events and other Olympic qualification events only, the crew shall consist of three women. The total weight of the mandatory three-woman crew (in at least swimwear, and weighed individually) shall not exceed 205.0 kg prior to racing each day of an event. Crew substitutions for the purpose of complying with the weight limits are not allowed. Crews failing to comply with the weight limit shall not race in any races sailed that day. This rule does not apply to Open or Mixed events, or women's trophies in open events.

C.3 PERSONAL EQUIPMENT

C.3.1 MANDATORY

- (a) Personal buoyancy for all **crew** members. Personal buoyancy shall be defined as a device worn around the upper part of the torso capable of supporting 50 N and meeting European CEN standards, or an equivalent standard.

C.3.2 OPTIONAL

- (a) One hiking harness with a quick release (See Rule C.7.2(c)(4)) for each **crew** member. A hiking harness shall not have a wet weight more than 2.5 kg and shall have positive buoyancy. For weighing the hiking harness includes anklets, body belt and all hiking equipment attached to the competitor. The weight shall be determined according to RRS Appendix H.

C.4 ADVERTISING

C.4.1 LIMITATIONS

Advertising shall only be displayed in accordance with the Category C of ISAF Regulation 20 - Advertising Code.

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**

C6.2 WEIGHT (EXCLUDING RIG)

minimum maximum

Weight of **boat** in dry condition excluding **rig** 620 kg

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

C.6.3 CORRECTOR WEIGHTS

If a **boat** does not comply with C.6.1 it shall be allowed to race if additional **corrector weights** are fitted for that specific event (but if overweight no **corrector weights** shall be removed).

C.6.4 CORRECTOR WEIGHTS POSITIONING

Corrector weights of lead shall be permanently fixed to the lower surface of the deck when the weight of the **boat**, as specified in C.6.1 and C6.2, is less than the minimum requirement. The **corrector 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) The **hull** shell may be sanded and painted and/or polished and have scratches repaired providing the shape is not altered. The template reference marks shall remain visible.
- (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 the cabin top, which is not adjustable when racing.
- (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. Each hand hold may have two drain holes into the cockpit or through the topsides, in which case they shall be of a maximum diameter of 6 mm and within 150 mm of the **sheerline**.
- (5) Foot straps and/or anklets fastened inside the cockpit.
- (6) Body straps fastened inside the cockpit or on deck. A cleat used to attach the body strap to the deck may be recessed in the deck and hull topsides

only so much as is required to prevent the cleat from protruding above the deck surface.

- (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 cabin top or 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 provided that the attachment point of the mainsheet block(s) be not less than 250 mm below the top of the cockpit coaming, measured in the athwartships plane of the attachment point.
 - (15) Mainsail Cunningham blocks, fairleads and cleats.
 - (16) Mainsail reefing fairleads, blocks and cleats.
 - (17) Jib sheet blocks (of which one at each side may be a ratchet block), fairleads and cleats.
 - (18) One jib sheet track on each side with traveller including either stops on the traveller and/or the track, or traveller control line blocks, fairleads and cleats.
 - (19) Jib Cunningham blocks, fairleads and cleats.
 - (20) Jib Barber hauler fairleads, blocks and cleats.
 - (21) Spinnaker boom lift and downhaul blocks, fairleads and cleats.
 - (22) Spinnaker sheet and guy blocks one of which at each side may be a ratchet block, fairleads, hooks and cleats.
 - (23) Spinnaker Barber hauler blocks, fairleads and cleats.
 - (24) A stemhead cover.
 - (25) Tiller lock.
 - (26) Stowage clips for paddle(s), spinnaker pole, sail bags and other equipment.
 - (27) Deck clips for cockpit cover and/or tent
 - (28) Compass mounting
 - (29) Kicking strap fitting on mast step and/or cuddy.
 - (30) A flag pole fitting
 - (31) An outboard motor bracket.
 - (32) Not more than two 30 mm diameter pump discharge pipes through the topsides between the watertight compartments within 200 mm of the **sheerline**.
 - (33) Spinnaker launch bags or spinnaker storage bins
- (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 class rule appendices.
- (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) **Gooseneck**

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 are 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 attachment and blocks,
- (4) Devices, with the exception of winches, to tension and/or hold mainsail and jib halyards,
- (5) one mechanical wind indicator,

- (6) one compass bracket.

(c) **Dimensions**

Mast datum point shall be the **Lower Point**: see F.2.1.

	minimum	maximum
Distance from the mast datum point to the intersection of the cabin top and the aft face of the spar	495 mm	505 mm
Longitudinal distance from the forward face of the spar at the cabin top to the breakwater measurement point as defined in D.1.3 (2)	240 mm	360 mm

(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 or more 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**

There shall be a **limit mark** at the **outer point**.

	minimum	maximum
Limit mark width	10 mm	
Outer point distance		2600 mm

C.9.4 SPINNAKER BOOM

(a) **Fittings**

Fittings are optional.

C.9.5 STANDING RIGGING

(a) **Fittings**

The following are mandatory:

- (1) Only one rigging screw of maximum adjustment 100 mm for each shroud.

The following are 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 fitting.

(c) **Use**

- (1) Shrouds may only be adjusted by the one rigging screw per shroud, and by no other means.

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
- (14) two spinnaker Barber haulers
- (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 the **crew** 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 and shall not be adjustable.

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 control**.

D.1.2 CERTIFICATION

See A.12.

D.1.3 DEFINITIONS

(1) Hull Datum Point

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

(2) Fwd Breakwater Measurement Point

The point on the **hull** in the 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** in the 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 any stemhead cover.

(5) Aft Deck Datum Points

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) Template Reference Points

On all boats built or re-measured after 1 April 2002, Reference Points for positioning the 4 hull templates shall be marked on the external hull centerline and the deck flange in accordance with the Measurement Diagram Appendix 3A. The points 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. These points 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) a unique builder's code shall be moulded into or permanently engraved on the hull, on the transom, the aft topsides, or the aft bulkhead.
- (e) the sail number of the **boat**. This shall be clearly displayed on the transom in characters of minimum height of 50mm

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 the 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 shall be fitted:

- (a) one bollard (mooring eye) 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,
- (h) one mast step.

D.3.3 DIMENSIONS

	minimum	maximum
Hull length	6340 mm	6370 mm
Radius between outside of transom and outside of hull shell	4 mm	
Thickness of double bottom centre section	14 mm	
Longitudinal distance from the centre of the forestay attachment hole in the forestay fitting to stem datum point	385 mm	395 mm
Longitudinal distance from centre of shroud attachment hole in chain plate fittings in front of aft breakwater datum point	1830 mm	1860 mm
Shortest horizontal distance from the centre of the shroud attachment hole in the chain plates to the outside edge of the deck flange	60 mm	
Height of double bottom above inner surface of the hull above the keel flange	325 mm	375 mm
Rudder stock centreline to hull datum point	1045mm	1075 mm
Total volume of the fore and the aft buoyancy compartment buoyancy blocks	0.56 m ³	

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 **certification control** 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

	minimum	maximum
Radius of leading and trailing edges	2 mm	
Distance from hull datum point to a point on the trailing edge of the keel , 60 mm above the lower edge of the keel as measured along the trailing edge of the keel	2725 mm	2765 mm
Depth of the keel measured at section 2	780 mm	790 mm
The keel shall be checked with templates in accordance with Appendix 4 of the class rules.		

E.2.4 WEIGHTS

	minimum	maximum
The weight of the iron core	305 kg	315 kg

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

	minimum	maximum
Radius of all rudder blade edges	2 mm	
Diameter of rudder stock	22 mm	

The rudder profile is defined by the quadrilateral with the following dimensions;

Trailing edge length	650 mm
Leading edge	635 mm
Top edge.....	400 mm
Bottom edge	250 mm
The bottom-leading edge to top-trailing edge Diagonal	638 mm

The rudder shall be within quadrilaterals with sides parallel to the above and at ± 5 mm from the sides, as shown in Class Rules Appendix 5. The rudder section shall conform to the official ISAF Yngling rudder templates, as shown in Class Rules Appendix 5

E.3.4 WEIGHTS

	minimum	maximum
Weight of rudder blade and stock	6.0 kg	

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

An **official measurer** shall **certify** the mast.

F.1.4 IYA MAST PLAQUE

On completion of mast **certification control** an official numbered IYA mast plaque shall be permanently attached to the mast spar below the gooseneck by the **official measurer**. The mast plaques shall be obtained from the IYA.

F.2 MAST

F.2.1 DEFINITIONS

Mast Datum Point

The **mast datum point** shall be the **lower 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. However, the wall thickness of the section shall not be tapered along the length of spar.
- (c) The sail groove may be opened up and/or the sides of the sail groove may be cutback providing the fore and aft dimension 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 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) permanently attached heel fitting which may include sheaves for halyards.

F.2.5 DIMENSIONS

	minimum	maximum
Limit mark width	10 mm	
Mast spar cross section of non tapered extrusion:		
fore-and-aft	89 mm	95 mm
transverse	61 mm	67 mm
Mast spar cross section at the upper point :		
fore-and-aft	66 mm	74 mm
transverse	52 mm	58 mm
Mast datum point to beginning of spar		
taper	4500 mm	
Upper point height		6800 mm
Spinnaker hoist height	5240 mm	5360 mm
Forestay height	5200 mm	5300 mm
Upper shroud height	5250 mm	5350 mm
Lower shroud height	2450 mm	2550 mm
Distance from forward face of spinnaker sheave or bearing		
point of the fairlead to the forward face of the mast		60 mm
Spreader :		
length	590 mm	
Spinnaker pole fitting :		
height		1000 mm
projection		45mm
Mast spar deflection when loaded with 20 kg at 3400mm		
from the mast datum point measured at 3400 from datum :		
fore-and-aft	30 mm	40 mm
Mast spar curvature		40 mm
Radius from the Upper Point to the extremity of the masthead fitting		
(Except for the removable wind indicator)		250 mm
There shall be limit marks at the lower point , the upper point		

F.2.6 WEIGHTS

	minimum	maximum
Mast Weight	17.0 kg	

Mast Tip Weight..... 7.50 kg

The weight of each halyard shackle, for the purpose of **Mast Tip Weight**, shall not be more than 70g

Corrector Weights 300 g

For the purpose of Rule F.2.6 (weights) any readily removable fittings such as wind indicators, shall be removed.

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. The boom maybe cut away to any shape beyond the **outer point**.
- (b) The sail groove may be cutaway at each end to permit entry of the mainsail.

F.3.3 FITTINGS

The following shall be fitted:

- (a) two or more 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

	minimum	maximum
Boom spar cross section of the extrusion, forward of the outer point		
vertical	69 mm	75 mm
transverse	51 mm	57 mm
Limit of the sail groove cutaway at each end		200 mm
Boom spar curvature		25 mm

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

	minimum	maximum
Spinnaker pole length		2015 mm

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 RIGGING

The following are 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 control**.

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 **certification control** of the sail.
- (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 in the **tack** in mainsails and jibs and in the **head** in spinnakers 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 Class Rule Appendix 2 and the RRS Appendix G.

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** extending to 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, 2 **chafing patches** at

spreaders, flutter patches, battens, batten pocket reinforcement, **batten pocket** elastic, leech line with cleat, two **windows**, telltales, sail shape indicator stripes.

G.2.3 DIMENSIONS

	minimum	maximum
Leech length		7200 mm
Quarter width		2220 mm
Half width		1660 mm
Three-quarter width		960 mm
Top width		155 mm
Weight of ply of the body of the sail	180 gr/m ²	
Primary reinforcement		355 mm
Secondary reinforcement:		
from sail corner measurement points		1065 mm
for chafing patches		300 mm
at inner ends of batten pockets		300 mm
for flutter patches		120 mm
Total window area		0.3 m ²
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

- The construction shall be: **Soft sail, single ply sail.**
- The **body of the sail** shall consist of the same **woven ply** throughout. The **ply** fibres shall be of polyester.
- There shall be two **batten pockets** in the **leech**.
- The **leech** shall not extend outside a straight line from the **aft head point** to the **clew point**.
- The following are permitted: Stitching, glues, tapes, corner eyes, Cunningham eye or pulley, tabling and or bolt rope, hanks, flutter patches, batten pockets elastic, battens, batten pocket reinforcement, foot and leech lines with optional cleats, two **windows**, telltales, sail shape indicator stripes.

G.3.2 DIMENSIONS

	minimum	maximum
Luff length	5700 mm	
Leech length	5300 mm	
Foot length	1950 mm	
Foot median	5620 mm	
Top width	35 mm	
Foot irregularity	20 mm	
Weight of the ply of the body of the sail	180 gr/m ²	
Primary reinforcement	320 mm	
Secondary reinforcement:		
from sail corner measurement points	960 mm	
for flutter patches	90 mm	
at the inner end of the batten pockets	300 mm	
Total window area	0.3 m ²	
Window to sail edge	150 mm	
Batten pocket length:		
inside	280 mm	
Batten pocket width:		
inside	60 mm	
Head point to intersection of leech and centreline of		
top batten pocket	1730 mm	
Clew point to intersection of leech and centreline of		
lower batten pocket	1730 mm	

G.4 SPINNAKER

G.4.1 CONSTRUCTION

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

G.4.2 DIMENSIONS

	minimum	maximum
Leech lengths	5600 mm	5800 mm
Foot length	4000 mm	
Foot median	6600 mm	
Quarter width	4700 mm	
Half width	4200 mm	
Three-quarter width	2300 mm	
Difference between diagonals	20 mm	
Weight of the ply of the body of the sail	38 gr/m ²	
Primary reinforcement	320 mm	
Secondary reinforcement: from sail corner measurement points	960 mm	

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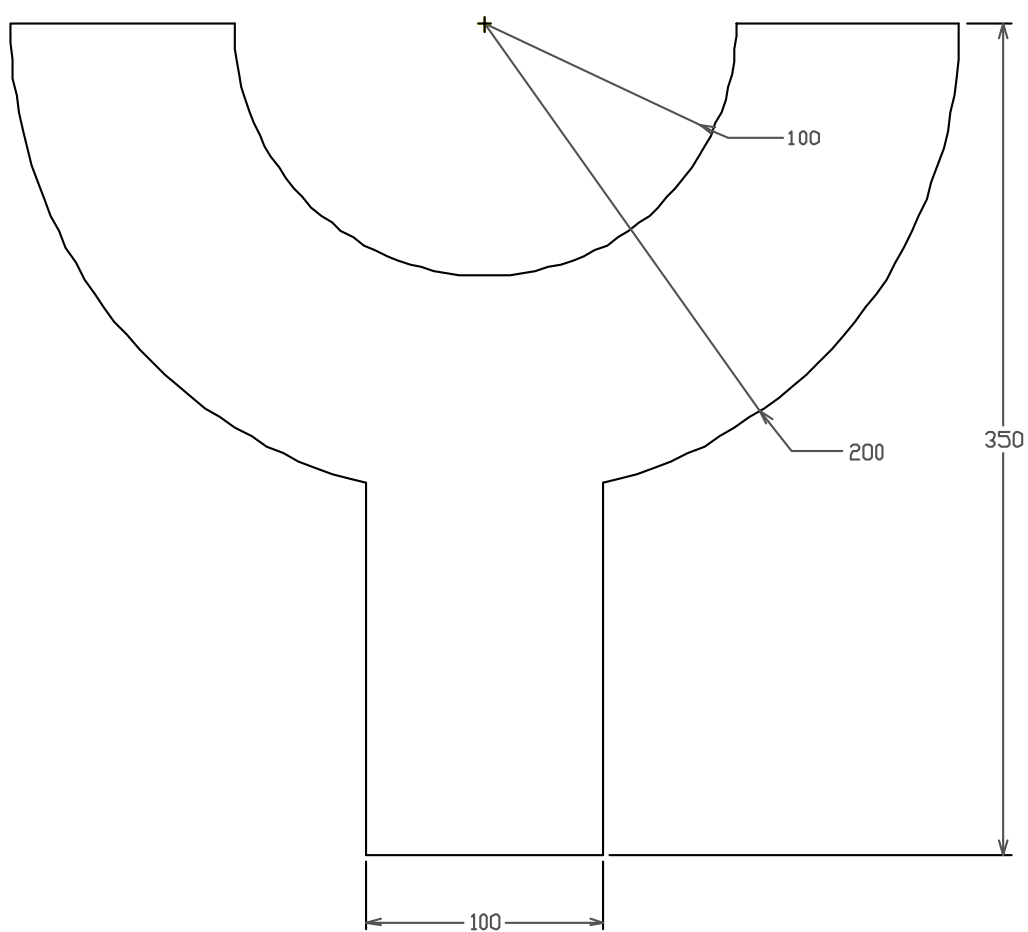
PART III – APPENDICES

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.

International YNGLING Class
Measurement Diagram
- Appendix 2

CLASS INSIGNIA



Designer: Jan H. Linge

NOMINAL DIMENSIONS - NOT TO SCALE

Appendix 3A 2006



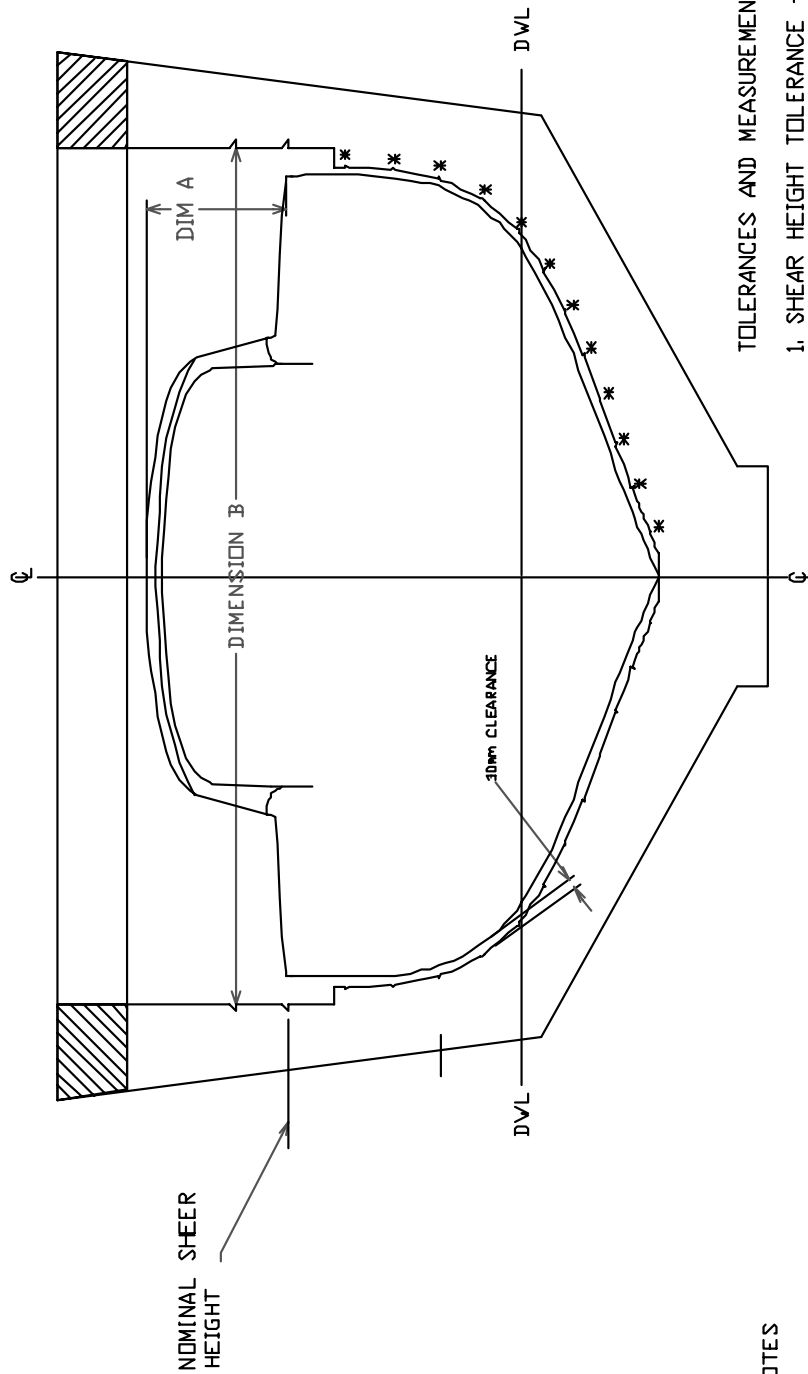
THE TEMPLATE REFERENCE MARKS SHALL CONSIST OF A 2.5 mm DIAMETER HOLE APPROXIMATELY 2 mm DEEP AND FILLED WITH A MATERIAL OF CONTRASTING COLOUR AND SHALL REMAIN VISIBLE.

Designer: Jan H. Linge

NOT TO SCALE

International Yngling Class Measurement Diagram - Appendix 3B

TYPICAL HULL TEMPLATE ARRANGEMENT



NOTES

1. MEASUREMENTS TO BE TAKEN AT EVERY MEASUREMENT MARK (MARK *)

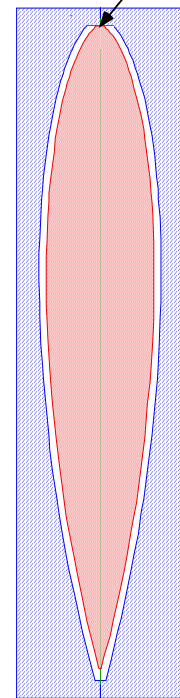
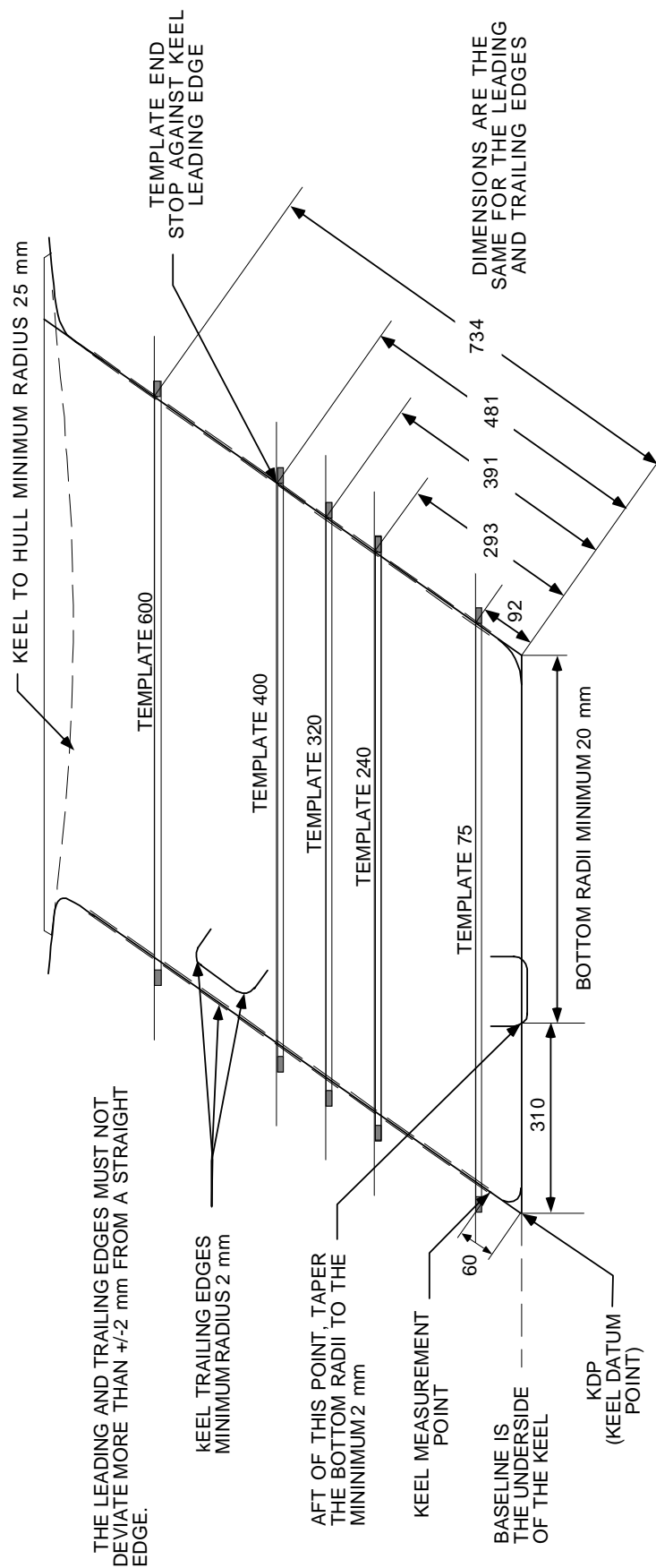
TOLERANCES AND MEASUREMENTS

1. SHEAR HEIGHT TOLERANCE $\pm 10\text{mm}$
2. DIMENSION A - MAX 210 AND MIN 190, TEMPLATE 1 - 142
3. DIMENSION B - TEMPLATE 2 - 1753, TEMPLATE 3 - 1528, TEMPLATE 4 - 793

Designer: Jan H. Linge

NOT TO SCALE

KEEL TEMPLATE ARRANGEMENT



SECTION SHAPE TO HAVE A TOLERANCE OF ± 2 mm FROM TEMPLATE SHAPE (8 - 12 mm CLEARANCE FROM THE TEMPLATE EDGE).

Designer: Jan H. Linge

NOT TO SCALE

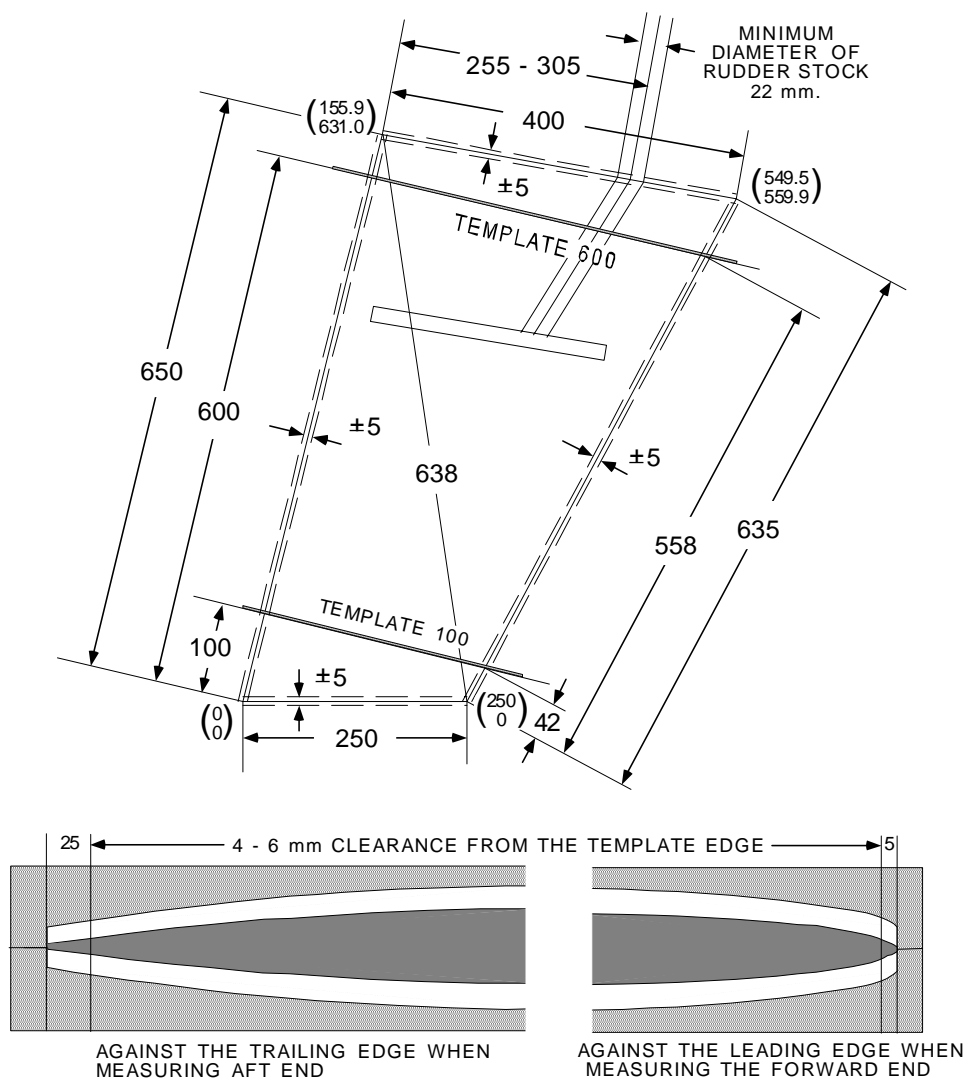
International YNGLING Class

Rudder Measurement Diagram Appendix 5 2006

TOLERANCES:

1. RUDDER PROFILE SHALL NOT DEVIATE MORE THAN ± 5 mm FROM THE OUTLINE SHOWN.
2. SECTION SHAPE TO HAVE A TOLLERNCE OF ± 1 mm FROM TEMPLATE SHAPE (4 - 6 mm CLEARANCE FROM THE TEMPLATE EDGE).
3. MINIMUM RADIUS OF ALL RUDDER BLADE EDGES SHALL BE 2 mm.

RUDDER TEMPLATE ARRANGEMENT



NOTES

1. BLADE TO HAVE A STRAIGHT TAPER, SEE RULE E.3.3

THE TEMPLATES SHALL BE POSITIONED:

- AGAINST THE LEADING EDGE WHEN MEASURING THE FORWARD END BACK TO THE THICKEST SECTION,
- AGAINST THE TRAILING EDGE WHEN MEASURING AFT OF THE THICKEST SECTION.

THE TEMPLATES CONTROL THE SECTION BETWEEN POINTS 5 mm AFT OF THE LEADING EDGE AND 25 mm FORWARD OF THE TRAILING EDGE. OUTSIDE THESE POINTS THE SHAPE IS NOT CONTROLLED, EXCEPT THAT IT MUST BE A CONTINUOUS FAIR EXTENSION OF THE RUDDER SECTION WITH NO CONCAVITY. THE MINIMUM THICKNESS OF THE TRAILING EDGE SHALL BE 4 mm, MEASURED 2 mm FORWARD OF THE TRAILING EDGE.

Designer: Jan H. Linge

NOT TO SCALE