



X-35 One Design
Designed in 2005
By X-Yachts A/S

Approved by World Sailing

INDEX

PART I – ADMINISTRATION

SECTION A – GENERAL

A.1	Language	4
A.2	Abbreviations	4
A.3	Authorities	4
A.4	Administration of the Class.....	4
A.5	World Sailing Rules	4
A.6	Class Rules Variations.....	4
A.7	Class Rules Amendments	5
A.8	Class Rules Interpretation	5
A.9	International Class Fee and ISAF/World Sailing Building Plaque	5
A.10	Sail Numbers.....	5
A.11	Hull Certification	5
A.12	Initial Hull Certification	5
A.13	Validity of Certificate	6
A.14	Hull Re-Certification	6
A.15	Retention Of Certification Documentation	6
A.16	Owner's Obligation	6

SECTION B – BOAT ELIGIBILITY

B.1	Class Rules And Certification	7
B.2	Class Association Markings	7

PART II – REQUIREMENTS AND IMITATIONS

SECTION C – CONDITIONS FOR RACING

C.1	Rules	8
C.2	Crew	8
C.3	Personal Equipment.....	9
C.4	Advertising.....	9
C.5	Portable & Optional Equipment	9
C.6	Boat	10
C.7	Hull	11
C.8	Deck	11
C.9	Hull Appendages	11
C.10	Rig	12
C.11	Sails	15

SECTION D – HULL

D.1	Parts	18
D.2	General	18
D.3	Hull, Shell, Deck and Bulkheads	18
D.4	Interior Fit out.....	19
D.5	Mechanical Installation	19
D.6	Electrical System	19
D.7	Assembled Hull & Deck	20

SECTION E – HULL APPENDAGES

E.1	Parts	21
E.2	Not in use	21
E.3	Keel	21
E.4	Rudder Blade, Rudder Stock ...	21
E.5	Wheel Steering System.....	22

SECTION F – RIG

F.1	Parts	23
F.2	General	23
F.3	Mast.....	23
F.4	Boom	24
F.5	Spinnaker Pole.....	24
F.6	Standing Rigging.....	24

SECTION G – SAILS

G.1	Parts	26
G.2	General	26
G.3	Mainsail	26
G.4	Headsails	28
G.5	World sailing OSR Heavy weather jib.....	28
G.6	Spinnakers.....	29
G.7	World Sailing OSR Storm jib ...	30
G.8	World Sailing OSR Trisail.....	30

PART III – APPENDICES

SECTION H	31
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X-35 One Design hulls, hull appendages and rigs are manufacturing controlled and the sails are measurement controlled.

X-35 One Design hulls, hull appendages and rigs shall only be manufactured by X-Yachts A/S or by manufacturers licensed by X-Yachts A/S. Equipment is required to comply with the International X-35 One Design Building Specification.

X-35 One Design hulls, hull appendages, rigs and sails, after having left the manufacturer, shall only be altered to the extent permitted in Section C of the class rules.

Owners and crews should be aware that compliance with rules in Section C is NOT checked as part of the fundamental certification.

Rules regulating the use of equipment during a race are contained in Section C of these class rules, in ERS Part I, World Sailing Offshore Special Regulation and in the Racing Rules of Sailing.

This introduction only provides an informal background and the X-35 One Design Class Rules proper begin on the next page.

The X-35 One Design hull and deck, rig and hull appendages will be in-house certified.

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 (renamed World Sailing)
- MNA World Sailing Member National Authority
- ICA X-35 International Class Association
- RCA Regional Class Association
- ERS Equipment Rules of Sailing
- RRS Racing Rules of Sailing
- OSR World Sailing Offshore Special Regulations

A.3 AUTHORITIES

- A.3.1 The international authority of the class is World Sailing which shall cooperate with ICA in all matters concerning these **class rules**.
- A.3.2 Notwithstanding anything contained herein, the **certification authority** has the authority to withdraw a **certificate** and shall do so on the request of the World Sailing.

A.4 ADMINISTRATION OF THE CLASS

- A.4.1 World Sailing has delegated its administrative functions of the class to MNAs. The MNA may delegate part or all of its functions, as stated in these **class rules**, to an RCA.
- A.4.2 In countries where there is no MNA, or the MNA does not wish to administrate the class, its administrative functions as stated in these **class rules** shall be carried out by the ICA which may delegate the administration to an RCA.

A.5 WORLD SAILING 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 is 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 CLASS RULES VARIATIONS

- A.6.1 At Class Events – see RRS 89.1.e) – World Sailing Regulation 10.5(f) applies. At all other events RRS 87 applies.
- A.6.2 When the X-35 is in a competing under these rules and also competing under a rating system the notice of race may alter the following rules with the permission of the X-35 executive committee:

- 1) **class rules** C.2.1(b) and C.2.2 to comply with the rating systems limitation on **crew** weight and numbers
 - 2) **class rules** C.11.3(c) and (d) to permit sails without sail stickers to be used.
 - 3) **class rule** C.11.3(b) shall not apply
 - 4) **class rule** C.11.3(a) and (b) increase the number of spinnaker allowed to be carried to increase to that of the rating rule
- A.6.3. If A.6.2. is invoked at a world or continental Championships the permission of World Sailing is also required.

A.7 CLASS RULES AMENDMENTS

- A.7.1 Amendments to these **class rules** are subject to the approval of the International X-35 class board in accordance with the World Sailing Regulations.

A.8 CLASS RULES INTERPRETATION

- A.8.1 Interpretation of class rules shall be made in accordance with the World Sailing regulations

A.9 INTERNATIONAL CLASS FEE AND ISAF/WORLD SAILING BUILDING PLAQUE

- A.9.1 The licensed **hull** builder shall pay the International Class Fee.
- A.9.2 World Sailing shall, after having received the International Class Fee for the **hull**, send the World Sailing Building Plaque.
- A.9.3 Section A.9 first came into effect after the class had been recognized by ISAF/World Sailing.

A.10 SAIL NUMBERS

- A.10.1 Sail numbers shall be issued by the MNA.
- A.10.2 National letters and sail numbers shall conform to the current RRS Appendix on "Identification on **Sails**".
- A.10.3 It is preferred to use the build number of the X-35 as sail number preceded by the national letters, e.g. build No 101 from Denmark "DEN 101", except where the MNA has its own sail number system.

A.11 HULL CERTIFICATION

- A.11.1 A **certificate** shall record the following information:

- (a) Class
- (b) X-Yachts A/S
- (c) **Hull** identification
- (d) Builder/Manufacturers details
- (e) Date of issue of **certificate**

A.12 INITIAL HULL CERTIFICATION

- A.12.1 A separate measurement form will be issued to the **hull** and **spars** upon completion and measurement by the builders:
- (a) **Certification control** shall be carried out by the **official measurer** who shall complete the appropriate documentation.

A.13 VALIDITY OF CERTIFICATE

A.13.1 A **hull certificate** becomes invalid upon:

- (a) significant repair or replacement to the **hull, keel, rudder** or **spar** and the change to any items recorded on the **hull certificate** as required under A.11.
- (b) the date of expiry
- (c) withdrawal by the **certification authority**
- (d) the issue of a new **certificate**

A.14 HULL RE-CERTIFICATION

A.14.1 The **certification authority** may issue a **certificate** to a previously certified **hull**:

- (a) when it is invalidated under A.13.1(a), (b) or (e), after receipt of the old **certificate**, and **certification** fee if required
- (b) when it is invalidated under A.13.1 (c), at its discretion
- (c) in other cases, by application of the procedure in A.12.

A.15 RETENTION OF CERTIFICATION DOCUMENTATION

A.15.1 The authority shall:

- (a) retain the original documentation upon which the current **certificate** is based.
- (b) upon request, transfer this documentation to the new **certification authority** if the **hull** is exported.

A.16 OWNER'S OBLIGATION

A.16.1 A copy of the X-35 One Design **Certificate** shall be kept on board the yacht while racing.

Section B – Boat Eligibility

For a **boat** to be eligible for, it shall comply with the rules in this section.

B.1 CLASS RULES AND CERTIFICATION

B.1.1 THE BOAT SHALL:

- (a) be in compliance with the **class rules**.
- (b) have a valid **hull certificate**.
- (c) have valid **certification marks** as required
- (d) have Builders Plaque

B.2 CLASS ASSOCIATION MARKINGS

- (a) A valid Class Association Sticker, if required by the RCA or the ICA, shall be affixed to the **hull certificate**.
- (b) **Sails** other than the storm trysail and storm jib shall carry a Class Association Sail Sticker.

PART II – REQUIREMENTS AND LIMITATIONS

The **crew** and the **boat** shall comply with the rules in Part II when *racing*. In case of conflict Section C shall prevail.

The rules in Part II are **closed class rules**. **Certification control** and **equipment inspection** shall be carried out in accordance with the ERS except where varied in this Part.

Section C – Conditions for Racing

C.1 RULES

- (a) RRS 50.4 shall not apply.
- (b) The **boat** shall be equipped to the minimum standard World Sailing Offshore Special Regulations Category 4, or the category which is specified by race organizers, whichever is greater, shall be carried on the X-35 One Design while racing.
- (c) The ERS Part 1 – Use of equipment shall apply except where deleted or amended as modified by these rules

C.2 CREW

Section C2 shall only apply to official X-35 class events as published by the X-35 class association.

C.2.1 LIMITATIONS

(Note the ERS definition of **crew** includes the helmsman)

- (a) The World Sailing Sailor classification, Reg 22, shall apply. The **crew** shall consist of no more than 2 persons either unclassified or classified Group 3. All other **crew** shall hold a valid Group 1 classification.
Competitors without a current classification, or whose employment circumstances have changed, may apply for a new **certificate** electronically from the World Sailing website www.sailing.org/isafsailor.
- (b) The **crew** shall consist of minimum 5 persons.
- (c) No **crew** member shall be substituted during an event, unless substitution is authorized by the Race Committee.
- (d) The **crew** list may be required by the notice of race for an event. For the World & Continental Championships a copy of the crew list should be sent to the Organising Authority and the ICA not later than two weeks before the start of the event. The crew list form is approved by X35 ICA.

C.2.2 WEIGHTS

In One Design Class events the maximum weight of the **crew** dressed in swimwear shall not exceed 640 kg at weigh-in prior to the start of a regatta.

C.2.3. HELMSMAN CRITERIA

Subject to the below, helmsmen shall be categorised either an OWNER HELMSMAN or HELMSMAN as follows:

OWNER-HELMSMAN

An Owner helmsman shall be a sailor who owns a share of ownership of a **boat** member of X-35 class association and:

- (i) is a Group 1 competitor who owns 100% of a **boat** or who is a partial owner with a minimum 30% ownership of the **boat** and share of its annual operating costs; or
- (ii) is a Group 3 competitor who owns 100% of a **boat** or who is a partial owner with a minimum 50% ownership of the **boat** and share of its annual operating costs

HELMSMAN

A helmsman shall be a competitor who holds a valid Group 1 classification.

ALL HELMSMEN

In addition helmsmen shall not have:

- (i) been employed to helm by an America's Cup team in the Match, Acts or Series in the preceding 5 years; or
- (ii) been employed to be a crew by an America's Cup team in the Match, Acts or Series in the preceding 5 years; or
- (iii) been in the top 20 of the World Match Race Rankings in the preceding 5 years; or
- (iv) competed in an Olympic Competition during the preceding 5 years.

C.2.4 STEERING

The Owner-Helmsman and the Helmsman according with C.2.3 may steer the yacht.

The **boat** may be steered by other members of the crew in the case of an emergency involving the safety of the **boat** or **crew**. Any such incident shall be reported to the protest committee which may penalise the **boat**. The penalty may be less than disqualification.

C.3 PERSONAL EQUIPMENT

C.3.1 MANDATORY

As per the Offshore Special Regulations

C.4 ADVERTISING

C.4.1 LIMITATIONS

Advertising shall only be displayed in accordance with the World Sailing Advertising Code.

C.4.2 In addition to advertising permitted in C 4.1 the Class may request the following:

- (a) The **boat** type to be displayed on each side of the coaming as fitted by the builder
- (b) The builders name and logo to be displayed on each side of the cabin roof as fitted by the builder
- (c) The Class International board may request display of event advertising on the **hull** within the World Sailing Advertising Code.

C.5 PORTABLE & OPTIONAL EQUIPMENT

C.5.1 FOR USE

(a) MANDATORY

- (1) One main anchor of not less than 10 kg in weight positioned according to drawing appendix H9 and one anchor warp of minimum

length 30 m, positioned according to appendix H9. Anchor and warp not to be moved during racing unless for the purpose of anchoring.
Minimum weight of anchor and warp 18,5 kg.

- (2) Towing rope minimum 30 m long of not less than 10 mm in diameter.
- (3) One mechanical compass
- (4) One emergency tiller

(B) OPTIONAL

- (1) Electronic or mechanical timing devices
- (2) Mooring lines
- (3) Electronic navigation devices, charts and other navigational equipment
- (4) There are no restrictions on portable equipment carried except were defined elsewhere within these rules
- (5) Winch handles
- (6) Fixed magnetic compass
- (7) Running rigging in accordance with F7
- (8) Saloon table and loose seat cushions in saloon may be removed while racing.

The optional items, as specified in section C.5.B, or the amount of fuel and water in the tanks shall not be used for re-trimming, ballasting or alternating fore and aft trim of the yacht for the sole purpose of improving the yachts performance for a specific wind range during a series.

C.6 BOAT

C.6.1 WEIGHT

The weight of the boat in dry condition	minimum	maximum
	4490 kg	4590 kg

The weight shall be taken excluding **sails**

The weight shall be taken with equipment checked and listed by measurer during the official weight measuring. Equipment and installation that can be included in class weight is listed in appendix H7.

A measurement **certificate** (Appendix H8) shall be onboard, signed by measurer.

C.6.2 CORRECTOR WEIGHTS

- (a) **Corrector weights** of lead shall permanently fastened when the **boat** weight is less than the minimum requirement.
- (b) The corrector weights shall be distributed with 1/3 of total corrector weight permanently mounted under centre shelf in saloon equally divided between port and starboard and 2/3 of total corrector weight permanently mounted under floorboard just behind main bulkhead. Position defined according to Appendix H6.

Permanently mounted is defined as bolted or glued and installation must be approved by measurer.

C.6.3 MAINTENANCE

The following can be done without re-**certification** or approval of the **certification authority**. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer and/or supplier.

- (a) Routine maintenance is allowed to the interior of the boat.
- (b) Routine maintenance is allowed to the exterior of the boat.
- (c) PVC film may be attached to any part of the **hull** above the waterlines, **sails** or **spars**, provided their fixing gives no performance advantage.

C.7 HULL

- (a) The **hull** shell, deck, bulkheads shall not be altered in any way except as permitted by these **class rules**.
- (b) Holes not bigger than necessary for the installation of fittings and passage of lines may be made in the **hull**, deck and bulkheads. Coring, cutting of holes and removal of material for the purpose of changing the inertia of the yacht is not permitted.
- (c) Routine maintenance such as painting, filling of minor scratches and polishing is permitted without re-measurement and re-**certification**.

C.7.1 FITTINGS

- (a) Hand hole covers and drainage plugs shall be kept in place at all times.
- (b) **Hull** skin fittings shall not be altered in any form or type.

C.7.2 Finishing and polishing

- (a) **Hull** surface may be wet sanded and/or polished. **Hull** lines and curves shall not be altered.
- (b) Primer and antifouling is optional
- (c) Routine maintenance such as painting, polishing and minor repairs is permitted without new **certification control** and **re-certification**.

C.8 DECK

C.8.1 FITTINGS

- (a) Deck fittings as per appendix H1 and H2 shall only be replaced by equipment as specified in appendix H1 and H2 or by equipment that in weight is no lighter than equipment defined in appendix H1 and H2.
- (b) Hiking padding on lower guard rail wire is optional.
- (c) Routine maintenance such as painting, polishing and minor repairs is permitted without new **certification control** and **re-certification**.
- (d) The bathing ladder may be stowed below deck, but shall be on board.
- (e) While racing, the cabin roof portlights must be closed.

C.9 HULL APPENDAGES

C.9.1 MODIFICATION, MAINTENANCE AND REPAIR

- (a) The **keel** and **rudder** shall comply within the maximum templates as defined in the construction manual and with the following tolerances measured perpendicular to keel or rudder surface, respectively.
The permitted distance between the maximum templates and the keel surface is between 0 and 4 mm.

The permitted distance between the maximum templates and the rudder blade surface is between 0 and 4 mm.

The tolerance at the templates applies in general to the entire surface of the hull appendages.

The **keel** shall be in-capsulated in fibre glass and epoxy as supplied by the builder (E.3.5.(c)) this shall not be removed and the **rudder** laminate shall not be altered

Keel and rudder fairing and painting is permitted. The **appendages** shall have low density fairing compounds.

- (b) Transverse width on keel and rudder in the areas from trailing edge to 15 mm forward of trailing edge is free ie. Not limited by distance to maximum templates as described in C.9.1 a).

C.10 RIG

C.10.1 BUILDER:

- All **spars** including spares and replacements shall be supplied by licenced **spar** supplier and shall comply with Construction manual, approved sparmakers construction details and X-35 One design **class rules**.

C.10.2 MODIFICATIONS AND REPAIR

Spars shall not be modified from the approved construction drawings in any way without written approval from the X-35 International Board and X-Yachts A/S.

C.10.3 FITTINGS

All mast fittings and there positioning shall comply with approved construction drawing from supplier and X-Yachts.

C.10.4 LIMITATIONS

- (a) 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.

C.10.5 MAST

(a) DIMENSIONS

- (1) The vertical position of the mast is defined as the distance from the forward bottom edge of the **spar** profile to the mast **lower point** forward edge.

The distance shall be 3069 mm \pm 5 mm.

(b) STEPPING

- (1) The **spar** shall be stepped in the mast step as fitted by the builder and the mast step shall not be adjusted.
- (2) The mast shall not be adjusted during racing.
- (3) The mast foot may only be moved within the standard slots in the mast foot.

C.10.6 BOOM

(a) DIMENSIONS

	minimum	maximum
Limit mark width	20 mm	
Boom outer point distance		4900 mm

(b) POSITIONING

- (1) The intersection of the aft edge of the mast **spar** and the top of the boom **spar**, each extended as necessary, shall not be below the upper edge of the mast **lower limit mark** when the boom **spar** is at 90° to the mast **spar**.

C.10.7 SPINNAKER POLE

- (a) DIMENSIONS minimum maximum
- Spinnaker pole length**..... 4180 mm
- Spinnaker pole cross section** 76 mm
- at half pole length**
- Spinnaker pole weight**..... 4.6 kg

C.10.8 STANDING RIGGING

- (a) DIMENSIONS maximum
-
- (b) ADJUSTMENT
- (1) Rigging links and rigging screws shall not be adjusted while racing.
- (c) BACKSTAY
- (1) Supplier is optional.
- (2) Material shall be HMPE
- (3) Dimension shall be minimum 10 mm in diameter

C.10.9 RUNNING RIGGING

- (a) MANUFACTURER
- (1) Manufacturer is optional.
- (b) Materials
- (2) Materials shall either be polyester or HMPE.
- (c) Construction
- (1) MANDATORY

Description	QTY	Min Ø non-stripped [mm]	Max length of stripped part [m]
Mainsail halyard	1	10	0
Mainsail sheet	1	10	0
Mainsail traveller control line	1	8	0
Reefing 1	1	10	0
Genoa Halyard	1	10	12
Genoa sheets	2	10	0
Genoa in-haulers 1	2	6	0
Genoa in-haulers 2	2	6	2,5
Genoa adjusters	2	6	0
Combi halyard	2	10	15
Spinnaker sheets	2	10	4,9
Spinnaker tweakers	2	6	0
Spinnaker pole downhaul 1	1	6	0
Spinnaker pole downhaul 2	1	6	1

Backstay control line 1	1	8	1,2
Backstay control line 2	1	6	4,5
Backstay control line 3	1	6	0
Vang control lines 1	2	6	0
Cunningham control lines 1	2	6	0
Cunningham control lines 2	2	6	0
Mainsail – outhaul lines	2	6	0

(b) OPTIONAL

- (1) Change or reaching sheet
- (2) Reefing Line 2
- (3) Spinnaker guys
- (4) Headsail Barber haulers capable of modifying the sheeting angle in one direction only of maximum purchase 10:1
- (5) Single line spinnaker Barber haulers capable of modifying the sheeting angle in one direction only of maximum purchase 2:1
- (6) Light air spinnaker sheets
- (7) Shockcord, tape or short ropes may be used to protect blocks, other deck gear and rigging from chafe
- (8) Reeling netting and shockcord for securing **sails** on the foredeck
- (9) A short strop with snapschackle at the forestay and/or a combination of two snapschackles to facilitate sail changing and handling
- (10) Sail prefeeder(s) to facilitate sail handling
- (11) Recommended robe length as per table below:

Description	Min length Total m]
Mainsail halyard	36
Mainsail sheet	38
Mainsail traveller control line	12
Reefing 1	19
Genoa Halyard	34
Genoa sheets	12
Genoa in-haulers 1	7,5
Genoa in-haulers 2	6
Genoa adjusters	14
Combi halyard	39
Spinnaker sheets	23
Spinnaker tweakers	7
Spinnaker pole downhaul 1	23
Spinnaker pole downhaul 2	1
Backstay control line 1	1,2
Backstay control line 2	4,5
Backstay control line 3	20

Vang control lines 1	14
Cunningham control lines 1	9
Cunningham control lines 2	1,5
Mainsail – outhaul lines	9

(d) Fittings

(1) MANDATORY

Headfoil or roller furling track with two headsail grooves

(2) MATERIALS

Headfoil shall either be of plastic or aluminium.

(e) OPERATION

- (1) The mainsail sheet shall be led as standard delivered to cockpit aft winches as per deck drawing in Appendix H1. The two ends of the mainsheet may be spliced to form a continuous loop.
- (2) The headsail sheet shall be led to cockpit coaming formost winches. A change or reaching sheet may be let to any winch.
- (3) The spinnaker sheet and guy shall be led to either halyard winches on cabin roof or to cockpit coaming formost winches.
- (4) The spinnaker pole topping lift shall be one of the combi halyards or the genoa halyard and be led to either side of cabin roof to jammer on coach roof as installed per standard and deck drawing in Appendix H1. In addition, cam cleats (Ronstan RF5020 Midi or equivalent) for the combi and genua halyards may be added to the mast below their exits. These cleats are not intended to carry the full working load of these halyards. Max 3 forward looking halyards shall be installed. One of the three halyards may be led through the spare halyard sheave below the standard genua halyard sheave.
- (5) The spinnaker pole downhaul shall be led either to swivels basis both sides on the cabin roof as per deck drawing in Appendix H1.
- (6) The kicking strap shall be led to swivel basis on both side of cabin roof as per deck drawing in Appendix H1 and installed per standard equipment
- (7) The mainsail clew outhaul shall be led to swivel basis on both sides of cabin roof as per deck drawing in Appendix H1 and installed per standard equipment
- (8) The mainsail Cunningham control shall be led swivel basis on both side of cabin roof as per deck drawing in Appendix H1 and installed per standard equipment

C.11 SAILS

C.11.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) **Sails** shall not be altered in any way except as permitted by these **class rules**.
- (b) Routine maintenance such as minor repairs to batten pockets are permitted without re-measurement and re-**certification**.

C.11.2 NOT FOR USE

- (a) Carbon battens are not permitted

C.11.3 LIMITATIONS

- (a) Not more than one mainsail, two Max jibs, one OSR heavy weather jib, two spinnakers and one storm trisail and one storm jib shall be carried aboard.
- (b) Not more than one mainsails, two jibs, one OSR heavy weather jib, two spinnakers and one storm trisail and one storm jib shall be used during an event, except when a **sail** has been lost or damaged beyond repair. In that case a class measurer or race committee shall give his permission to replace damaged **sails**.
- (c) **Sails** used in a class event shall have the class sail sticker attached and signed as per Appendix H5. Only **sails** with registered class sail stickers shall be used.

Storm try sail and storm jib do not require class sail sticker and therefore are not subject to any sail purchase limitation.

- (d) In addition to the base inventory (1 mainsail, 2 headsails (number 1 jib), 2 spinnakers and 1 OSR Heavy weather jib), outlined in paragraph G.1. each yacht is permitted four (4) new class **sails** per calendar year (January 1 to December 31) to be used in that year.

In the first year of racing each yacht is permitted a total of maximum 10 (6+4) **sails** that require sail sticker according to the **class rules**.

Unless otherwise specified in the Sailing Instructions, each yacht shall only use registered **sails** for the duration of the regatta, complying with paragraph C11.3 a & b.

Charterers who do not own an X-35 may purchase an original inventory, plus four sail stickers per year, and transfer **sails** to different chartered boats.

Charterers and X-35 owners who charter are permitted to transfer their own **sails** to a chartered **boat**, or may use **sails** registered to the chartered **boat**, but may not combine inventories. X-35 owners cannot charter a **boat** and purchase a set of charter **sails**. X-35 owners with multiple **boats** cannot transfer **sail** inventories from **boat** to **boat**. Transfer of **boat** ownership to either immediate family members or a non-sailing Owner to increase sail entitlements is not permitted. Swapping of **boat** ownership between X-35 owners to increase **sail** entitlement is not permitted. Should a **sail** be destroyed during a regatta, the owner of the **boat** or a representative from that **boat** may apply to the Race Committee for a replacement **sail** to be registered in place of the destroyed **sail**.

C.11.4 MAINSAIL

(a) IDENTIFICATION

- (1) The national letters and **sail** numbers shall comply with the RRS except where prescribed otherwise in these **class rules**
- (2) National letters and sail numbers are required on the sail (e.g. NED 35, DEN 35 etc.)

(b) USE

- (1) The **sail** shall be hoisted on a halyard. The arrangement shall permit hoisting and lowering of the **sail** at sea.
- (2) The highest visible point of the **sail**, projected at 90° to the mast **spar**, shall not be set above the lower edge of the mast **upper limit mark**. The intersection of the **leech** and the top of the boom **spar**, each extended as necessary, shall not be behind the fore side of the boom **outer limit mark**.

(3) **Luff** ropes or **batten** cars shall be in the **spar** groove.

C.11.5 JIB

(a) USE

(1) The **sail** shall be hoisted on a halyard.

If a furling headstay is in use, the **sail** shall not be furled.

(b) IDENTIFICATION

No identification numbering is required.

C.11.6 SPINNAKER

(a) USE

(1) The **sail** shall be hoisted on a halyard.

(b) IDENTIFICATION

(1) The national letters and **sail** numbers shall comply with the RRS except where prescribed otherwise in these **class rules**

(2) National letters and sail numbers are required on the sail (e.g. NED 35, DEN 35 etc.)

Section D – Hull

D.1 PARTS

- D.1.1 MANDATORY
- (a) **Hull** shell
 - (b) Deck
 - (c) Bulkheads

D.2 GENERAL

D.2.1 RULES

- (a) The **hull** shall comply with the **class rules** in force at the time of initial **certification**.

D.2.2 CERTIFICATION

See Rule A.13.

D.2.3 MODIFICATIONS, MAINTENANCE AND REPAIR

If any **hull** is modified in any other way than described in Section C an official measurer shall verify 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 measurement **certificate Appendix H8**.

D.2.4 DEFINITIONS

- (a) **HULL DATUM POINT**

The **hull datum point** is on centerline at the aft extremity of the **hull** underside.

D.2.5 IDENTIFICATION

- (a) The **hull** shall carry the Builders Plaque permanently placed in the cockpit.

D.2.6 BUILDERS

- (a) The **hull** shall be built by a builder licensed by X-Yachts A/S.
- (b) All moulds shall be approved by X-Yachts A/S.

D.3 HULL, SHELL, DECK AND BULKHEADS

D.3.1 MATERIALS

- (a) As specified in the construction manual.

D.3.2 CONSTRUCTION

- (a) Shall be built in accordance with the construction manual
- (b) No part of the structure shall be altered in any way other than by an approved X-Yachts service agent.
- (c) Any major repair after damage should be done in accordance with the original construction manual by an X-Yachts approved service agent.

D.4 INTERIOR FITOUT

D.4.1 MATERIALS

- (a) As specified in the construction manual.

D.4.2 CONSTRUCTION

- (a) Shall be built in accordance with the construction manual
- (b) No part of the standard interior fit out shall be altered in any way other than by an approved X-Yachts service agent.
- (c) Any major repair after damage should be done in accordance with the original construction manual by an X-Yachts approved service agent.

D.4.3 EQUIPMENT

- (a) All equipment shall be fitted and placed as originally installed by the builder and specified as per construction manual.

D.5 MECHANICAL INSTALLATION

D.5.1 MATERIALS

- (a) As specified in the construction manual.

D.5.2 CONSTRUCTION

- (a) Shall be built in accordance with the construction manual
- (b) No part of the mechanical fit out shall be altered in any way other than by an approved X-Yachts service agent.
- (c) Any major repair after damage should be done in accordance with the original construction manual by an X-Yachts approved service agent.

D.5.3 FOR USE

(a) MANDATORY

- (1) One inboard engine, Yanmar 3 YM20C, 20 HK (14,8 kW) with Yanmar SD20 sail and an X-Yachts A/S approved 2 bladed folding propeller 16"x12.

The engine may be used only to charge batteries.

D.6 ELECTRICAL SYSTEM

D.6.1 MATERIALS

- (a) As specified in the construction manual.

D.6.2 CONSTRUCTION

- (a) Shall be built in accordance with the construction manual
- (b) No part of the electrical system shall be altered in any way other than by an approved X-Yachts service agent.
- (c) Any major repair after damage should be done in accordance with the original construction manual by an X-Yachts approved service agent.

D.7 ASSEMBLED HULL & DECK

D.7.1 FITTINGS

(a) MANDATORY

- (1) Factory fit standard fittings in accordance with the construction manual.

Fittings shall be positioned as delivered from the factory

- (2) Race package equipment shall only contain fittings as per deck drawing and race package equipment list in Appendix H2 and be placed as defined in deck drawing in Appendix H2.
- (3) Equipment differing from the race package per appendix H2 shall not be lighter in weight compared to components from appendix H2 and shall be placed as defined in deck drawing in Appendix H2.

(b) OPTIONAL

Options listed can be part of the Measurement **Certificate**

(see also Section C5. and appendix H7):

- (1) Spray hood deck fittings
- (2) 2 Cabinets in saloon
- (3) Cooling compressor
- (4) Heating system
- (5) Hotwater container
- (6) Holding tank installation
- (7) Radio/CD with loudspeakers
- (8) Cockpit loudspeakers
- (9) Unrestricted Electronic Instruments
- (10) Shower in cockpit
- (11) Other permanently mounted equipment such as lee cloth, saltwater system etc. with authorisation from the technical committee.

Section E – Hull Appendages

E.1 PARTS

E.1.1 MANDATORY

- (a) **Keel**
- (b) **Rudder**

E.2 GENERAL

E.2.1 RULES

- (a) The **hull appendages** shall comply with the **class rules** in force at the time of initial **certification**.

E.2.2 CERTIFICATION

See Rule A.13.

E.2.3 MODIFICATIONS, MAINTENANCE AND REPAIR

If any **hull appendages** are modified beyond that permitted in Section C an official measurer shall verify 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 measurement **certificate Appendix H8**.

E.2.6 BUILDERS

- (a) The **hull appendages** shall be built by a builder licensed by X-Yachts A/S.
- (b) All moulds shall be approved by X-Yachts A/S.

E.3 KEEL

E.3.1 RULES

- (a) The **keel** shall comply with the **class rules** in force at the time of the initial **certification** of the **hull**.

E.3.2 CERTIFICATION

- (a) The **certification authority** shall **certify keels**

E.3.4 MANUFACTURERS

- (a) Manufacturers shall be licensed by X-Yachts A/S.

E.3.5 MATERIALS

- (a) The **keel** bulb shall be made of lead.
- (b) The **keel** fin shall be made of cast iron
- (c) The **keel** shall be encapsulated in fibre glass and epoxy.

E.3.7 DIMENSIONS

In accordance with the construction manual.

E.3.8 WEIGHTS

In accordance with the construction manual.

E.4 RUDDER BLADE, RUDDER STOCK

E.4.1 RULES

- (a) The **rudder** blade shall comply with the **class rules** in force at the time of **certification**.
- E.4.2 MANUFACTURERS
 - (a) Manufacturers shall be licensed by the X-Yachts A/S.
- E.4.3 MATERIALS
 - (a) The **rudder** blade and **rudder** stock shall be made as per construction manual.
- E.4.4 CONSTRUCTION
 - (a) The **rudder** blade shall be manufactured in a mould approved by X-Yachts A/S in accordance with the construction manual.
- E.4.5. DIMENSIONS
 - (a) In accordance with the construction manual.
- E.4.6. POSITION
 - (a) In accordance to construction manual.
- E.4.7 FITTINGS
 - (a) OPTIONAL
 - (1) Autopilot

E.5 WHEEL STEERING SYSTEM

- E.5.1 RULES
 - (a) Wheel steering system and steering mechanism including the quadrant shall be supplied by and installed by licensed manufacturer in accordance with the construction manual.
 - (b) Emergency tiller can be mounted on top of **rudder** shaft.

Section F – Rig

F.1 PARTS

F.1.1 MANDATORY

- (a) **Mast**
- (b) **Boom**
- (c) Standing **rigging**
- (d) Running **rigging**

F.1.2 OPTIONAL

- (a) **Spinnaker pole**

F.2 GENERAL

F.2.1 RULES

- (a) The **spars** and their fittings shall comply with the **class rules** in force at the time of **certification** of the **spar**.
- (b) The standing and running **rigging** shall comply with the **class rules**.

F.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) **Spars** shall not be altered in any way except as permitted by these **class rules**.
- (b) Routine maintenance such as cleaning and polishing is permitted without re-measurement and re-**certification**.

F.2.3 CERTIFICATION

- (a) The **official measurer** shall **certify spars** and shall sign and date the **certification mark**.
- (b) No **certification** of standing and running **rigging** is required.

F.2.4 DEFINITIONS

(a) MAST DATUM POINT

As specified in the construction manual and licensed **spar** manufacturer's tolerances.

F.2.5 MANUFACTURER

- (a) Licenced by X-Yachts A/S
- (b) Replacement **spars** shall only be supplied by the builder or the Licensed **Spar** Manufacturer

F.3 MAST

F.3.1 MATERIALS

- (a) The **spar** shall be of anodised aluminium

F.3.2 CONSTRUCTION

- (a) In accordance with the construction manual

- F.3.3 FITTINGS
- (a) MANDATORY
 - (1) In accordance with construction manual
 - (b) OPTIONAL
 - (1) Additional instrumentation, lights, wind indicators may be mounted on the mast

- F.3.4 DIMENSIONS
- (a) In accordance with construction manual.

F.4 BOOM

- F.4.1 MATERIALS
- (a) The **spar** shall be of anodised aluminium.
- F.4.2 CONSTRUCTION
- (a) In accordance with the construction manual
- F.4.3 FITTINGS
- (a) As per construction manual
 - (b) OPTIONAL
 - (1) Second reefing line
- F.4.4 DIMENSIONS
- (a) In accordance with construction manual.

F.5 SPINNAKER POLE

- F.5.1 MANUFACTURER
- (a) Manufacturer is optional.
- F.5.2 MATERIALS
- (a) The **spar** shall be of either aluminium alloy or Carbon (area of aramid reinforcement are permitted).
- F.5.3 CONSTRUCTION
- (a) Construction is optional
- F.5.4 FITTINGS
- (a) Fittings are optional.
- F.5.5 DIMENSIONS
- | | minimum | maximum |
|--|---------|---------|
| Spinnaker pole spar cross section | 76 mm | |
| Spinnaker pole length | | 4180 mm |

F.6 STANDING RIGGING

- F.6.1 MATERIALS
- (a) The standing **rigging** shall be of stainless steel, except of the backstay
- F.6.2 CONSTRUCTION
- (a) In accordance with the construction manual
- F.6.3 FITTINGS
- (a) MANDATORY

- (1) In accordance with construction manual
- (b) OPTIONAL
 - (1) Furling forestay

F.6.4 DIMENSIONS

- (a) In accordance with construction manual.

Section G – Sails

G.1 PARTS

G.1.1 MANDATORY

- (a) Mainsail
- (b) Number 1 Jib
- (c) World Sailing OSR Heavy Weather Jib
- (d) World Sailing OSR Storm Trisail

G.1.2 OPTIONAL

- (a) Additional Number 1 Jib
- (b) Spinnaker 1
- (c) Spinnaker 2
- (d) Storm Jib

G.2 GENERAL

G.2.1 RULES

- (a) **Sails** shall comply with the **class rules** in force at the time of **certification**.

G.2.2 CERTIFICATION

- (a) The **official measurer** shall **certify** mainsails and headsails in the **tack** and spinnakers in the **head** and shall sign and date the **certification mark**.
- (b) An MNA may appoint one or more persons at a sailmaker to measure and **certify sails** produced by that manufacturer in accordance with the World Sailing In-house Certification Guidelines.

G.2.3 DEFINITIONS

- (a) Not in use

G.2.4 SAILMAKER

- (a) No licence is required.

G.3 MAINSAIL

G.3.1 PARTS

- (a) One (1) mainsail is mandatory.

G.3.2 IDENTIFICATION

- (a) The class insignia shall conform with the dimensions and requirements as detailed in the diagram contained in Appendix H3 (sail plan).

G.3.3 MATERIALS

- (a) The **ply** fibres shall be of either Dacron, Polyester, Aramid, Carbon or UHMWPE.

G.3.4 CONSTRUCTION

- (a) The construction shall be: **soft sail, single ply sail**.
- (b) The **body of the sail** shall consist entirely of either **woven ply** or non woven ply.
- (c) The **sail** shall have five batten **pockets** in the **leech**.
- (d) The **sail** shall be constructed with a usable slab reef at one point adjacent to the **luff**, one point adjacent to the **leech**.
- (e) The following are permitted: Stitching, glues, tapes, bolt ropes, corner eyes, headboard with fixings, Cunningham eye or pulley, batten pocket patches, **batten pocket elastic**, batten pocket end caps, mast and boom slides, **leech** line with cleat, **windows**, tell tales, sail shape indicator stripes and items as permitted or prescribed by other applicable rules.
- (f) 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**.
- (g) More than one slap reef is permitted.

G.3.5 DIMENSIONS

	minimum	maximum
Leech length		15070 mm
Mainsail upper point minus Mainsail lower point		14250 mm
Boom outer point distance		4900 mm
Quarter width		4140 mm
Half width		3190 mm
Three-quarter width		1880 mm
Upper width		1080 mm
Top width		210 mm
Window to sail edge		100 mm
Leech Reefing point	1750 mm	2000 mm

Upper Leech Point is the point on the leech equidistant from the **head point** and the **three-quarter leech point**.

G.3.6. BATTEN LENGTH

- (a) The **leech** shall have 5 battens.
 - (b) The top batten may be full batten.
 - (c) The top batten shall be positioned with minimum 1950 mm from **head point** of the mainsail, to the centreline of the **batten pocket**, at **leech**.
- Top **Inside Batten Pocket Length** maximum 1170 mm

Inside Batten Pocket Length # 2 from head maximum 1220 mm
Inside Batten Pocket Length # 3 from head maximum 1520 mm
Inside Batten Pocket Length # 4 from head maximum 1820 mm
Inside Batten Pocket Length # 5 from head maximum 2120 mm

G.4 HEADSAILS

G.4.1 MATERIALS

(a) The **ply** fibres shall consist be of either Polyester, Aramid, Carbon or UHMWPE.

G.4.2 CONSTRUCTION

- (a) The construction shall be: **soft sail, single ply sail.**
- (b) The **body of the sail** shall consist entirely of either **woven or non-woven ply.**
- (c) The headsail shall have 4 **batten pockets** in the **leech.**
- (d) The following are permitted: Stitching, glues, tapes, corner eyes, hanks, batten pocket elastic, **batten pocket patches**, batten pocket end caps, **leech** line with cleat, one **window**, tell tales, sail shape indicator stripes and items as permitted or prescribed by other applicable *rules*.

G.4.3 DIMENSIONS

	minimum	maximum
Luff length		14600 mm
Luff Perpendicular		4400 mm
Three-quarter width		1210 mm
Half width		2290 mm
Quarter width		3340 mm
Top width		100 mm

G.4.4 BATTEN LENGTH

Top Inside Batten Pocket Length	full batten
Inside Batten Pocket Length # 2 maximum	920 mm
Inside Batten Pocket Length # 3 maximum	1220 mm
Inside Batten Pocket Length # 4 maximum	1520 mm

G.5 OSR HEAVY WEATHER JIB

PARTS

(a) One (1) World Sailing OSR Heavy Weather Jib is mandatory.

G.5.1 MATERIALS

(a) The **ply** fibres shall consist of either Polyester, Aramid Carbon or UHMWPE.

G.5.2 CONSTRUCTION

- (a) The construction shall be: **soft sail, single ply sail.**
- (b) The **body of the sail** shall consist entirely either of **woven** and/or **non-woven ply.**
- (c) The headsail shall have 4 **batten pockets** in the **leech.**
- (d) The **leech** shall not extend beyond a straight line from the aft **head point** to the **clew point.**
- (e) The following are permitted: Stitching, glues, tapes, corner eyes, hanks, batten pocket elastic, **batten pocket patches**, batten pocket end caps, **leech** line with cleat, one **window**, tell tales, sail shape indicator stripes and items as permitted or prescribed by other applicable *rules*.

G.5.3 DIMENSIONS

	maximum
Luff length	14450mm
Foot length	4480 mm
Luff Perpendicular	3920 mm
Half width	1830 mm
Top width	100 mm

G.5.4 BATTEN LENGTH

Top Inside Batten Pocket Length	full batten
Inside Batten Pocket Length # 2 maximum	770 mm
Inside Batten Pocket Length # 3 maximum	1070 mm
Inside Batten Pocket Length # 4 maximum	1370 mm

(a) Alternative attachment along the luff.

G.6 SPINNAKERS

G.6.1 PARTS

- (a) Two (2) spinnakers are allowed

G.6.2 MATERIALS

- (a) The spinnakers shall be made of commercial available woven nylon

G.6.3 DIMENSIONS

The spinnakers shall be symmetric around the centreline

- (a) Spinnaker 1 with a minimum actual cloth weight of 34 g/m2.

The sailmaker shall mark the weight and make of cloth permanently near the head of the spinnaker

	maximum
Leech length	14360 mm
Luff length	14360 mm
Difference between two luff length	100 mm
Half width maximum	7750 mm
Foot length maximum	7520 mm

- (b) Spinnaker 2 with a minimum actual cloth weight of 38 g/m²
 The sailmaker shall mark the weight and make of cloth permanently near the head of the spinnaker
 Dimensions as per Spinnaker 1

G.7 WORLD SAILING OSR STORM JIB

G.7.1 PARTS

- (a) One (1) World Sailing OSR storm jib is allowed

G.7.2 MATERIALS

- (a) The **ply** fibres shall in accordance with the OSR.

G.7.3 CONSTRUCTION

- (a) The construction shall be in accordance with the OSR.
 (b) The entire body of the sail shall be made from a highly visible colour.

G.7.4 DIMENSIONS

	minimum	maximum
Luff length		8000 mm
Leech length		6250 mm
Foot length		3450 mm
Luff Perpendicular		2560 mm
Weight of ply of the body of the sail	375 g/m ²	

G.8 WORLD SAILING OSR TRISAIL

G.8.1 PARTS, MATERIALS AND CONSTRUCTION

- (a) Shall be in accordance with the OSR. It is suggested that the minimum weight of **ply** used in the **body of the sail** is 375 g/m².
 (b) The entire **body of the sail** shall be made from a highly visible colour.

G.8.2 DIMENSIONS

Shall be in accordance with OSR. The suggested size is as follows:

	maximum
Luff length	7200 mm
Leech length	8020 mm
Foot length	3300 mm

PART III – APPENDICES

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

Section H

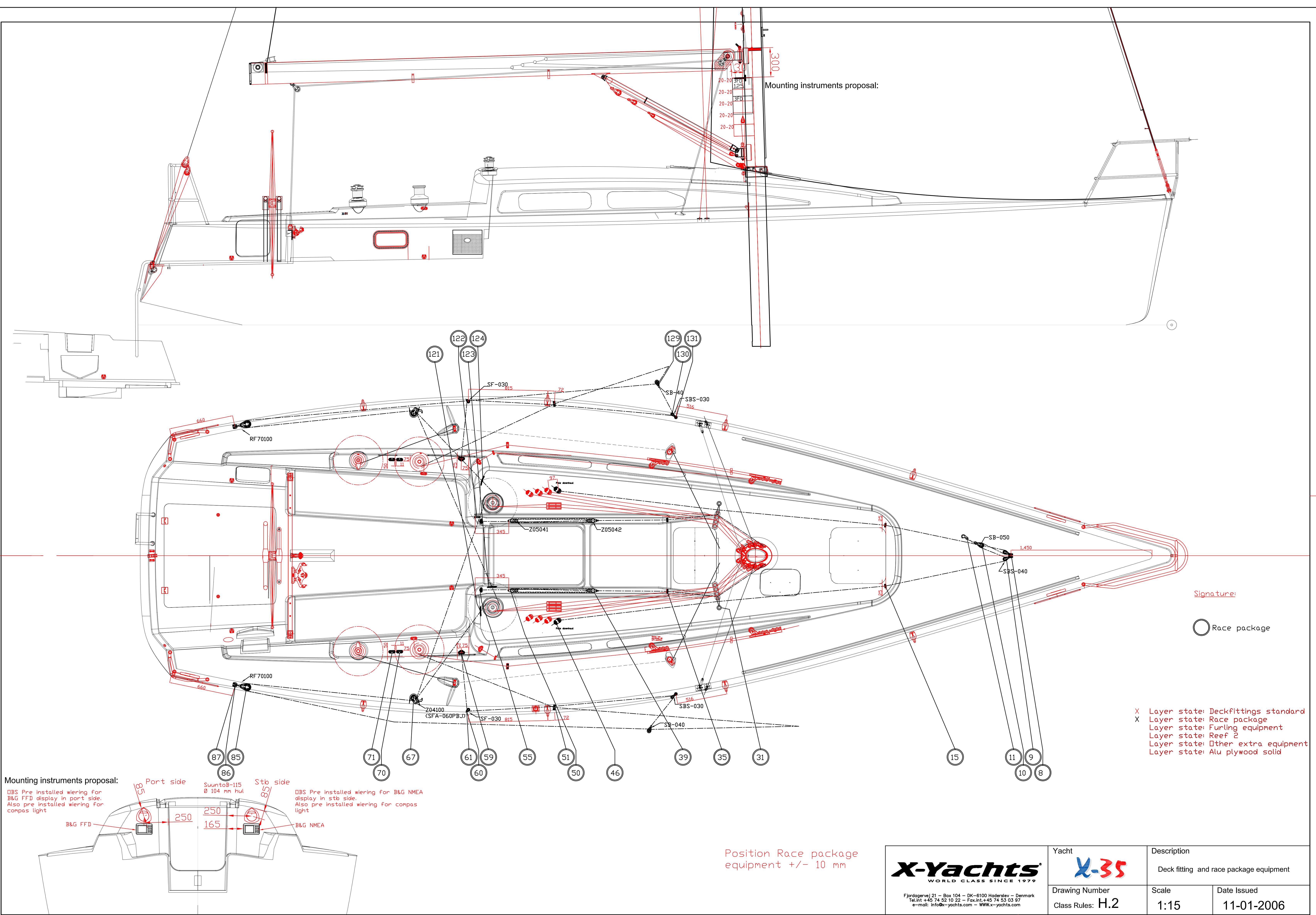
- H1 Deckplan
- H2 Guide to race package equipment list
- H3 Sailplan – only use as guide.
- H4 Keel check measurement drawing
- H5 Instruction for class sail sticker attachment
- H6 Position of corrector weights
- H7 Equipment and installations qualifying for minimum class weight
- H8 Measurement certificate
- H9 Drawing showing position of anchor and anchor warp while racing
- H10 Crew List Form

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Mounting instruments proposal:

Mounting instruments proposal:

DBS Pre installed wiring for B&G FFD display in port side. Also pre installed wiring for compass light

Port side

SuuntoB-115 Ø 104 mm hul

Stb side

DBS Pre installed wiring for B&G NMEA display in stb side. Also pre installed wiring for compass light

Position Race package equipment +/- 10 mm

Signature:

○ Race package

- X Layer state: Deckfittings standard
- X Layer state: Race package
- Layer state: Furling equipment
- Layer state: Reef 2
- Layer state: Other extra equipment
- Layer state: Alu plywood solid

X-Yachts WORLD CLASS SINCE 1979 <small>Fjordagervej 21 - Box 104 - DK-6100 Haderslev - Denmark Tel.int +45 74 52 10 22 - Fax.int +45 74 53 03 97 e-mail: info@x-yachts.com - WWW.x-yachts.com</small>	Yacht X-35		Description Deck fitting and race package equipment	
	Drawing Number Class Rules: H.2		Scale 1:15	Date Issued 11-01-2006

Gooseneck detail
Single line reef detail
Scale 1:2

X-35

Webbing fitted to the sail, with e.g. a Wichard Allen Head Pin Shackle-D 10 mm, or a ring in the lower end. The shackle/ring must be fitted around the reef line, and must hit the padeye when you are tensioning the main sail luff after tensioning of reefline. The reef line tension must not have influence on the luff tension of the mainsail. Bear in mind where you position the cars or sliders, so that they are not pulled out of the luff groove or damaged while tensioning the reef line.

Pad eye on port side of the mast is for reef 2

Pad eye on starboard side of the mast is for reef 1

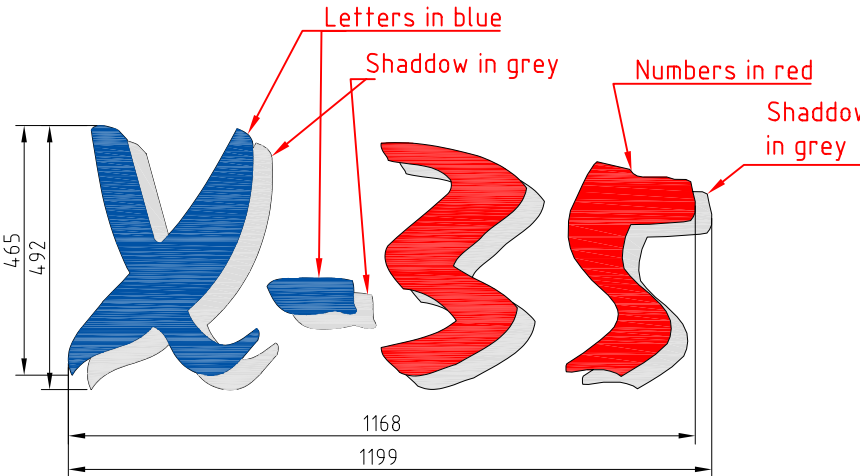
Mainsail cut up - cut back
Scale 1:2
Moveable shackle

Mast Luff groove section
Scale 1:1

Boom section
Perimeter 580 mm

Class mark:

The surrounding black line is only for defining the extension of the colours.



X-35 OD Sailplan:
All measurements in mm.
Measurements in accordance with ISAF Equipment Rules of Sailing.

In the case of any discrepancy between the text/measurement in the X-35 OD Class Rules and the X-35 OD Sailplan the X-35 OD Class Rules shall apply.

The X-35 OD Sailplan shows only some of the measurements written in the X-35 OD Class Rules.

Mainsail upper point minus Mainsail lower point = maximum 14250
Boom outer point distance = Maximum 4900
Mainsail leech reef point minimum 1750 maximum 2000 from mainsail clew point
Fortriangle base = maximum 4185

Spinnakers

Symmetric around the centerline
Luff length same length as leech
length maximum 14360
Half width maximum 7750
Foot length maximum 7520

Spinnaker pole length maximum 4180

For Information only:
IMS terms maximum measurements
P=14,250
E=4,900
IG=14,500
J=4,185
SPL=4,180
ISP=14,530

Head Stay #15 - ø7,5 mm
Harken 7001 Carbo Racing Foil Profile
Luff extrusion incl fittings 13884 mm
Use luff tape diameter 5,3 mm



Number 1 Jib

Luff length maximum 14600
minimum 14400
Foot length maximum 4750
Luff perpendicular maximum 4450
Top width maximum 100
Three-quarter width maximum 1210
Half width maximum 2290
Quarter width 3340
Jib Inside Batten Pocket Length:
Top Inside Batten Pocket Length are full batten
Inside Batten Pocket Length #2 from head maximum 920
Inside Batten Pocket Length #3 from head maximum 1220
Inside Batten Pocket Length #4 from head maximum 1520

ISAF ORS Heavy weather jib

Luff length maximum 14450
minimum 14250
Foot length maximum 4480
Luff perpendicular maximum 3920
Half width maximum 1830
Top width maximum 100
Heavy weather Jib Inside Batten Pocket Length:
Top Inside Batten Pocket Length full batten
Inside Batten Pocket Length #2 from head maximum 770
Inside Batten Pocket Length #3 from head maximum 1070
Inside Batten Pocket Length #4 from head maximum 1370
Alternative attachment along the luff

A start help for designing the
Number 1 Jib:
Measure 1630 mm from the Genoa
loop to a line perpendicular to the
jib luff. With a jib luff perpendicular
length at 4450 mm the clew height
is in right height to fit the Jib
inhaul system.

Mainsail

Leech length maximum 15070
Quarter width maximum 4140
Half width maximum 3190
Three quarter width maximum 1880
Upper width maximum 1080
Top width maximum 210
Leech reefing point minimum 1750 maximum 2000

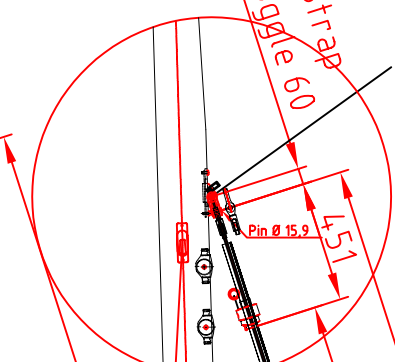
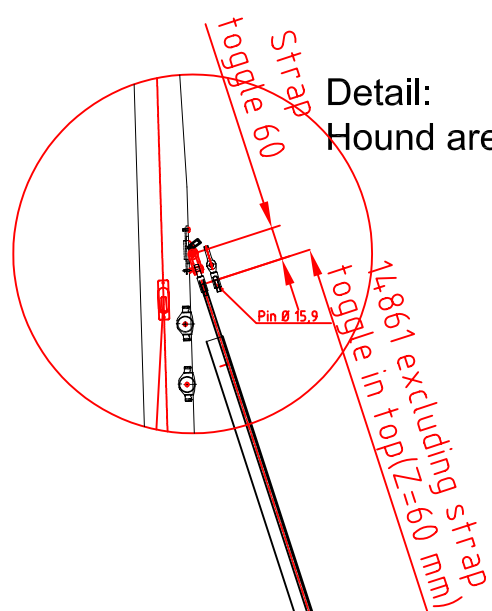
Mainsail inside batten pocket length:

Top Inside Batten Pocket Length maximum 1170
Inside Batten Pocket Length # 2 from head maximum 1220
Inside Batten Pocket Length # 3 from head maximum 1520
Inside Batten Pocket Length # 4 from head maximum 1820
Inside Batten Pocket Length # 5 from head maximum 2120
The topbatten shall be positioned with minimum 1950 from
headpoint of the mainsail, to the centerline of the
battenpocket, at leech

Single line Reef line(s),
to be fixed around the
boom with a bow line hitch.

Reef minimum 1750

Detail:
Hound area

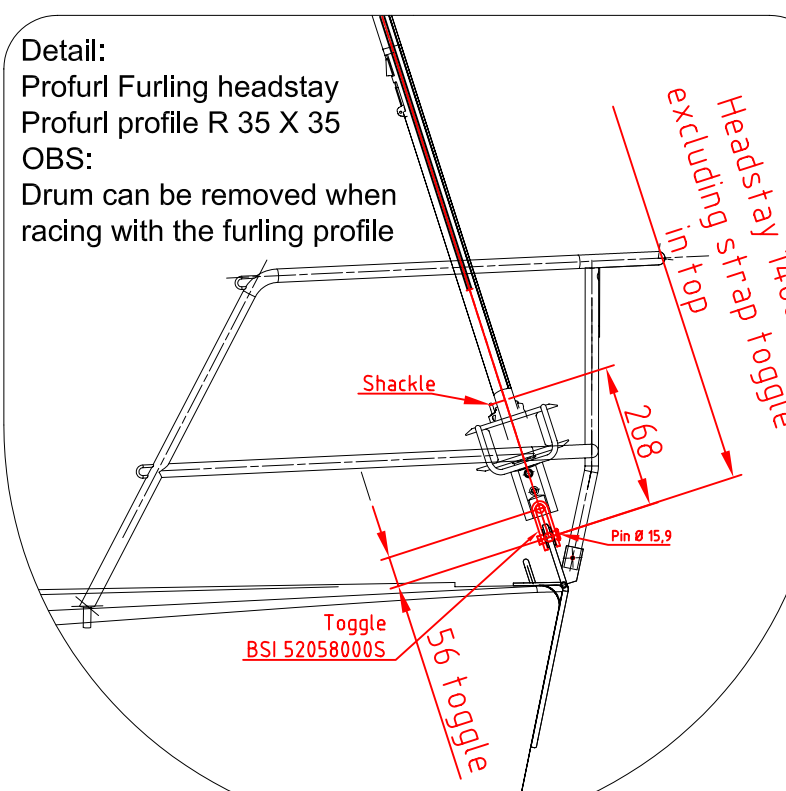
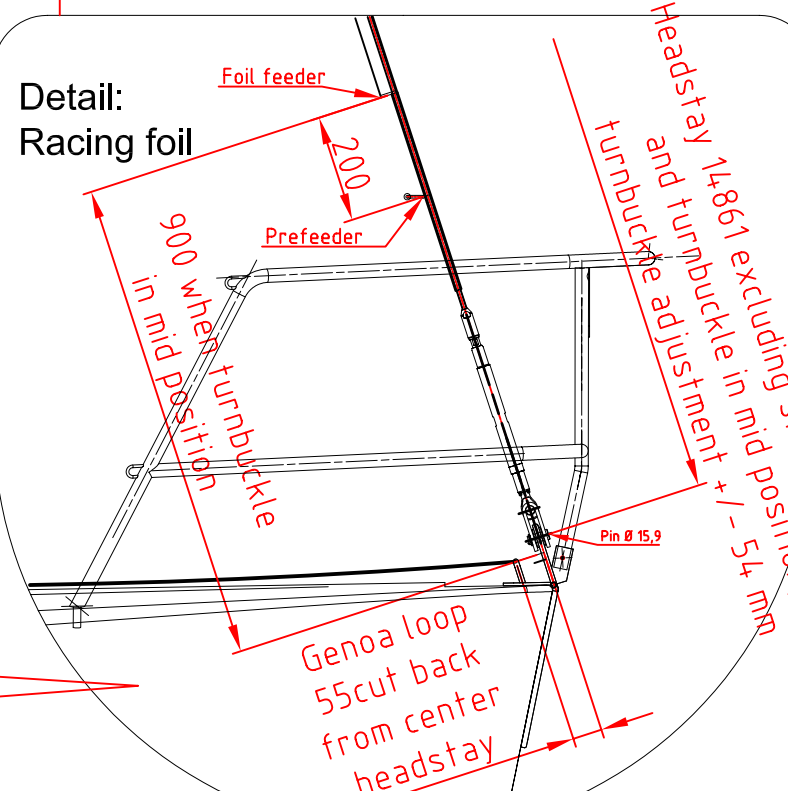


Headsail 14861 excluding strap toggle in top, and turnbuckle in mid position
Jib luff 13888 mm
Jib luff 14900 mm maximum luff length
Headsail 14861 excluding strap toggle in top, and turnbuckle in mid position
Jib luff 13888 mm
Jib luff 14900 mm maximum luff length

From loop to foil profile
900 when turnbuckle
in mid position

Genoa loop
55cut back
from center
headstay

Shackle
BSI 520580005
56



Note:
Genoa furling system
Starboard side of genoa are outside
when furled

X-35 OD Data:
Hull length=10,600
Bmax=3,280
Draft standard=2,150

This X-35 deck has been equipped with following extra equipment:
Race package, REEF 2

Layer: Stale Seijman

X-Yachts
WORLD CLASS SINCE 1977

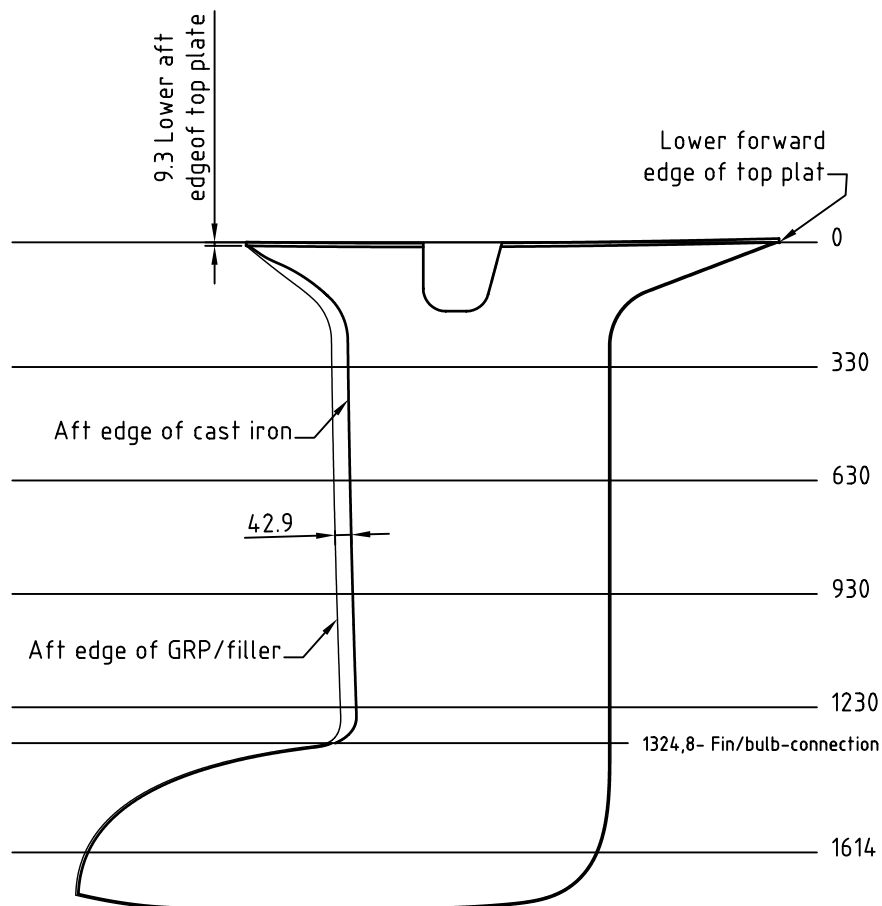
Yacht
X-35

Description
Sail Plan

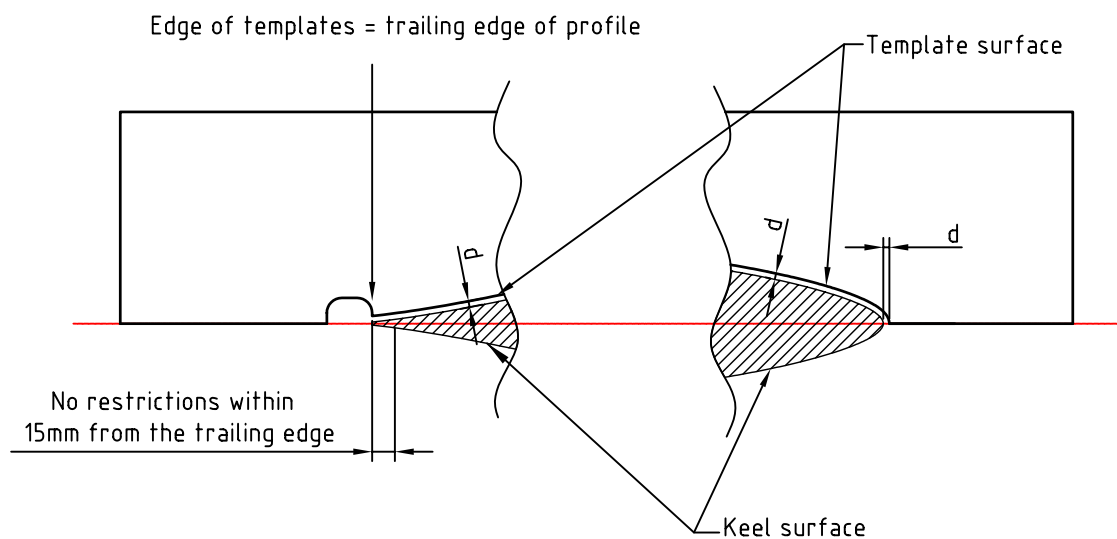
Drawing Number
H3 Rev. B

Scale
1:25

Date Issued
06-03-2006



Principle of maximum templates for the X-35 Scale 1:5



Distance d : $0\text{mm} \leq d \leq 4\text{mm}$

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Yacht

X-35

Description

Position of max templates

Drawing Number

H4 - 1/2

Scale

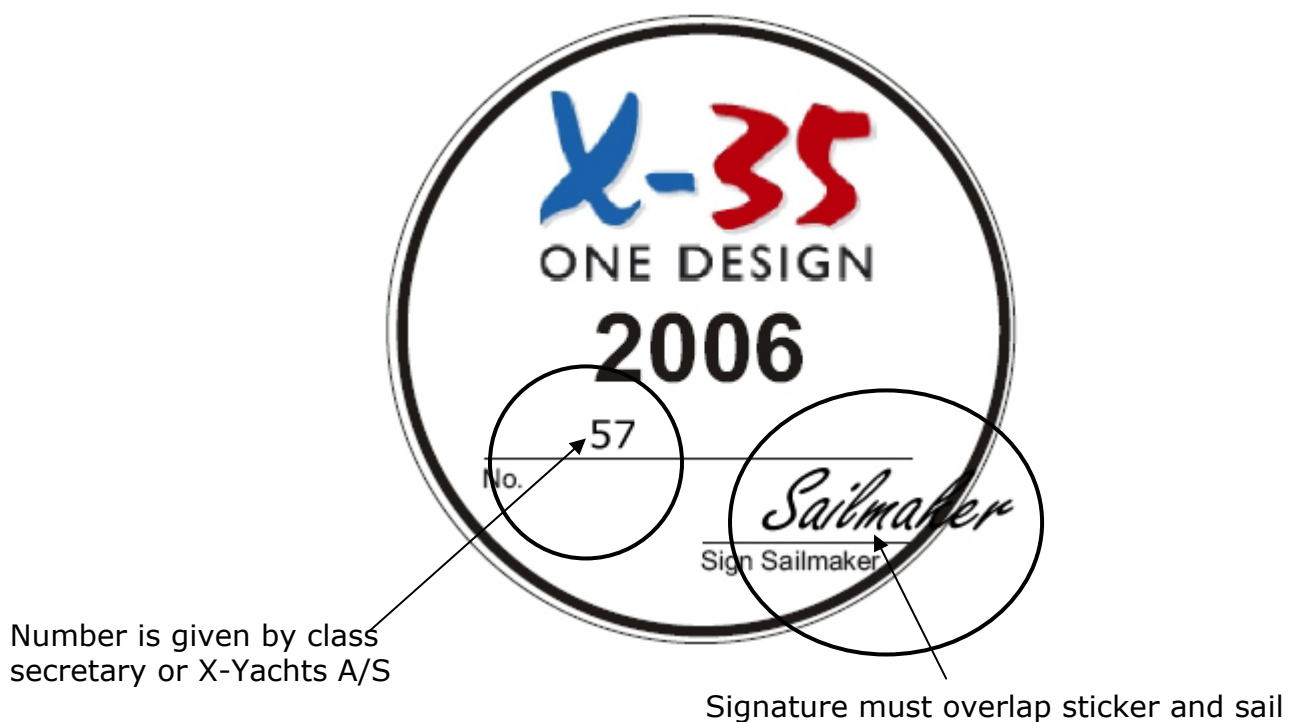
1:20

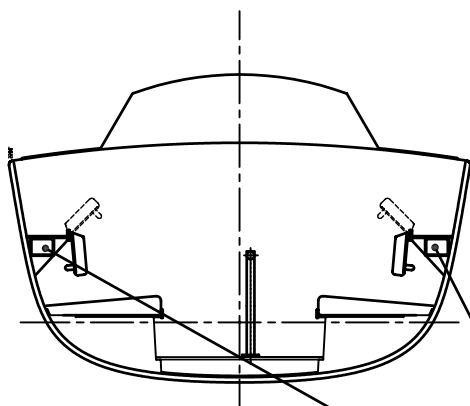
Date Issued

2006.01.06

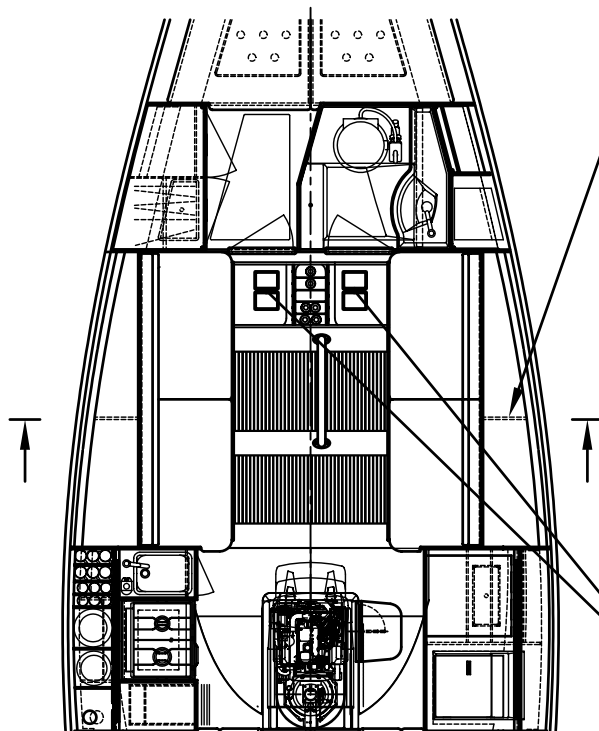
Handling and registration of sail sticker:

1. The international class secretary registers the class sail stickers.
2. The owner contacts the class secretary (or X-Yachts A/S until the international class association has been established) to obtain sail sticker(s) and his number(s). The sail sticker(s) are sent directly to the sailmaker.
3. Sailmakers are responsible for mounting the sail sticker in the sail and signing off. (See enclosed drawing). It is important that the sailmaker stamps and signs across the sticker and sail. The signature pen must use non-removable ink. The class sail sticker numbering system is on a rolling number basis.
4. The owners pay an administration fee of € 5 ex VAT per sticker to the international class association. The class secretary will invoice the sailmaker, and it is the responsibility of the sailmaker to invoice the owner accordingly. Until the international association has been founded, payment is due to X-Yachts A/S.
5. From the 1.1.2007 sail stickers shall be stitched to new sails.





1/3 of the total corrector weight is to be permanently attached to the knees in the main cabin.



2/3 of the total corrector weight is to be permanently attached to the bottom between 1st and 2nd steel frame

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Yacht

X-35

Description

Position of correction weights

Drawing Number

H6 Rev. A

Scale

1:50

Date Issued

2006.01.06

EQUIPMENT X-35 ONE DESIGN	
Standard equipment included in class weight	
Anchor and anchor warp	
Mast	
Rig	
Boom	
Vang incl strop	
Cunningham incl 3 blocks	
Mainsheet	
3 blocks for mainsheet	
Sheet for "main traveller"	
Reef 1 rope	
Backstay incl blocks	
Haul for genoa cars	
Cunningham	
Mainsail halyard	
Combi halyard STB + Port	
Genoa halyard	
Emergency tiller	
8 blocks at mast collar	

Permanently mounted optional equipment can be included in the class weight	Items below shall be logged in weight certificate if they are part of yachts' class weight requirement
Hot water installation	
Chart plotter	
Cooling compressor	
Heating system	
Holding tank with fittings	
Radio/CD with speakers	
2 cockpit loudspeakers	
Electronic instrumentation	
Magnetic compass	
Primer	
Antifouling	
Sprayhood fittings permanently mounted	
Autopilot drive	
Shower in cockpit	
Race package excl pole and sheets	

Standard equipment that may be removed while racing and is NOT part of class weight
Saloon table
Loose seat cushions in saloon

Equipment that is NOT part of class weight
Spinnaker pole
Spinnaker sheets
Spinnaker guy sheets
Winch handles
Additional cupboards in saloon (port and starboard)
Mooring ropes
Fender
Genoa sheets
Shore power cable
Barberhaul ropes
Downhaul ropes
Hoist strop
Boom cover
Spare sheets

MEASUREMENT CERTIFICATE X-35 ONE DESIGN		
BUILDER'S DECLARATION This X-35 did comply with the edition of the X-35 International Class Rules which were valid at the time the yacht was built in respect to the construction manual.		
Date:	Builder's representative:	
X-35 Hull No:	Year of construction:	
OWNER'S DECLARATION I undertake to race this X-35 only as long as I maintain it strictly in accordance with the valid class rules.		
Date:	Owner's signature:	
YACHT'S NAME:	YACHT CLUB:	
YACHT'S FIRST SAIL NO:	YACHT'S CURRENT SAIL NO:	
OWNER'S NAME: ADDRESS Street: Postal code: Town: Country:		
AUTHORITY'S CONFIRMATION OF VALIDITY OF THIS CERTIFICATE <input type="checkbox"/> By a representative of the REGIONAL/NATIONAL X-35 CLASS ASSOCIATION if the yacht has already been measured by an official measurer and got a valid measurement certificate issued by a national authority OR <input type="checkbox"/> By a MEASURER APPOINTED BY THE NATIONAL AUTHORITY if the yacht has not yet been measured. I have checked or measured according to the following documents: A) X-35 Measurement form for yacht's weight (page 3-5) B) ERS and X-35 International Class Rules PART II		
Date:	Signature:	
Authority:		Stamp:
Name of the undersigned: Position: ADDRESS Street: Postal code: Town: Country:		

CHANGE OF OWNERSHIP

X-35 ONE DESIGN

NEW OWNER'S NAME:

ADDRESS

Street:

Postal code:

Town:

Country:

NEW OWNER'S DECLARATION

I undertake to race this X-35 only as long as I maintain it strictly in accordance with the valid X-35 Class Rules.

Date:

Owner's signature

NEW OWNER'S NAME:

ADDRESS

Street:

Postal code:

Town:

Country:

NEW OWNER'S DECLARATION

I undertake to race this X-35 only as long as I maintain it strictly in accordance with the valid X-35 Class Rules.

Date:

Owner's signature

NEW OWNER'S NAME:

ADDRESS

Street:

Postal code:

Town:

Country:

NEW OWNER'S DECLARATION

I undertake to race this X-35 only as long as I maintain it strictly in accordance with the valid X-35 Class Rules.

Date:

Owner's signature

MEASUREMENT FORM FOR WEIGHT
X-35 ONE DESIGN

A qualified measurer from the National Sailing Association shall on the X-35 owner's account have the yacht's weight recorded together with the permanently installed equipment.

This measurement form shall be sent to:

Your regional/national X-35 Class Association or the International X-35 Class Association (until your National X-35 Class Association has been set up).

A copy is to be carried on board of your yacht at all times.

OWNER'S NAME:

ADDRESS

Street:

Postal code:

Town:

Country:

Phone:

Mobile phone:

Email:

Signed by

Measurer

Owner

The datum weight of the yacht shall be a minimum of 4490 kg with the standard equipment and the optional equipment acc. to appendix H7 of the international class rule (outlined on page 4/5 of this MEASUREMENT FORM).

Measurer and owner declare that the recorded items on page 4/5 of this MEASUREMENT FORM have been onboard during measurement

Water tank shall be empty

Diesel tank shall be full during weight measurement. **42 kg** shall be deducted from actual weight of yacht

Position of anchor and anchor warp according to class rules appendix H.9

Weight of anchor and anchor warp in kg, if not the standard anchor and anchor warp is used:

kg

Actual weight of yacht in conditions as described above in kg excl. corrector weights:

kg

Total weight of corrector weights in kg:
Weights positioned according to Appendix H6 of class rules

kg

Actual weight of yacht in conditions as described above including above corrector weight in kg:

kg

MEASURER'S NAME:

ADDRESS

Street:

Postal code:

Town:

Country:

Phone:

Mobile phone:

Email:

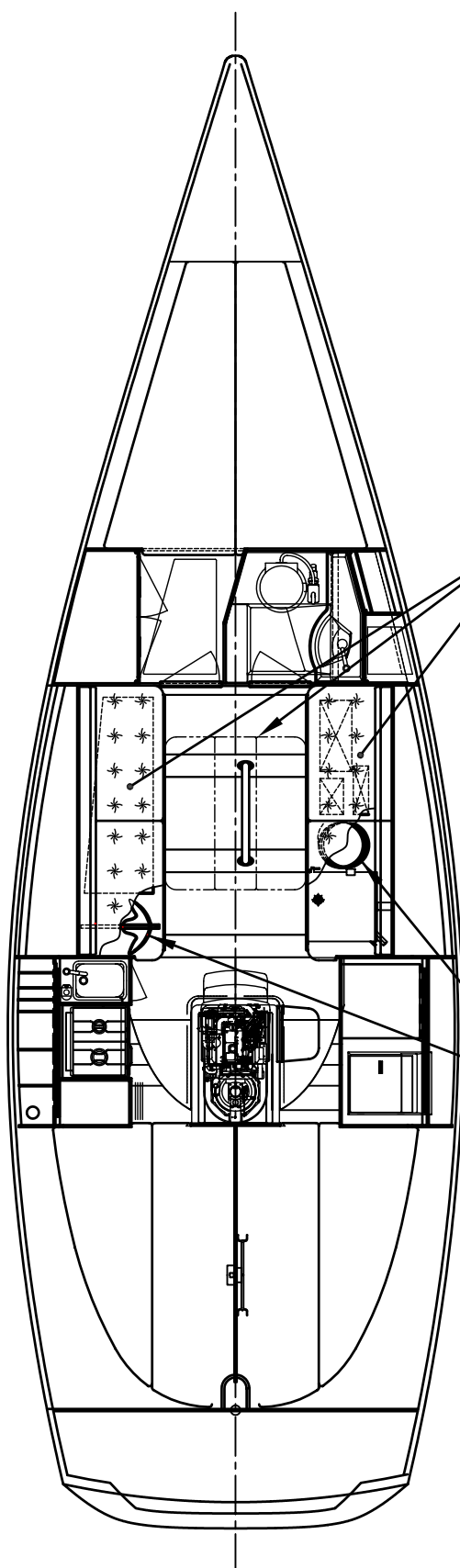
Date:

Signature:

MEASUREMENT FORM FOR WEIGHT X-35 ONE DESIGN		
Standard equipment included in class weight	Each item listed below must be signed by measurer & owner	
	Measurer	Owner
Anchor and anchor warp		
Mast		
Rig		
Boom		
Vang incl strop		
Cunningham incl 3 blocks		
Mainsheet		
3 blocks for mainsheet		
Sheet for "main traveller"		
Reef 1 rope		
Backstay incl blocks		
Haul for genoa cars		
Cunningham		
Mainsail halyard		
Combi halyard STB + Port		
Genoa halyard		
Emergency tiller		
8 blocks at mast collar		
Permanently mounted optional equipment can be included in the class weight	Each item listed below must be signed by measurer & owner if they are part of yachts' class weight requirement	
	Measurer	Owner
Hot water installation		
Chart plotter		
Cooling compressor		
Heating system		
Holding tank with fittings		
Radio/CD with speakers		
2 cockpit loudspeakers		
Electronic instrumentation		
Magnetic compass		
Primer		

APPENDIX H8

Antifouling		
Sprayhood fittings permanently mounted		
Autopilot drive		
Shower in cockpit		
Race package excl pole and sheets		
Standard equipment NOT part of class weight	Each item listed below must be signed by measurer and owner	
	Measurer	Owner
Saloon table		
Loose seat cushions in saloon		
Equipment that is NOT part of class weight	Each item listed below must be signed by measurer & owner	
	Measurer	Owner
Spinnaker pole		
Spinnaker sheets		
Spinnaker guy sheets		
Winch handles		
Mooring ropes		
Fenders		
Genoa sheets		
Shore power cable		
Barberhaul ropes		
Downhaul ropes		
Hoiest strop		
Boom cover		
Two cabinet sections in saloon – demountable		
Spare sheets		



It is allowed to remove the berths madras's and the salon table excluding legs.

The anchor and anchor warp as specified by the class rules is to be stowed in the saloon area. Positions shown are optional.

X-Yachts
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Yacht

X-35

Description

Position of anchor and
anchor warp

Drawing Number

H9 Rev. C

Scale

1:50

Date Issued

2006.01.06