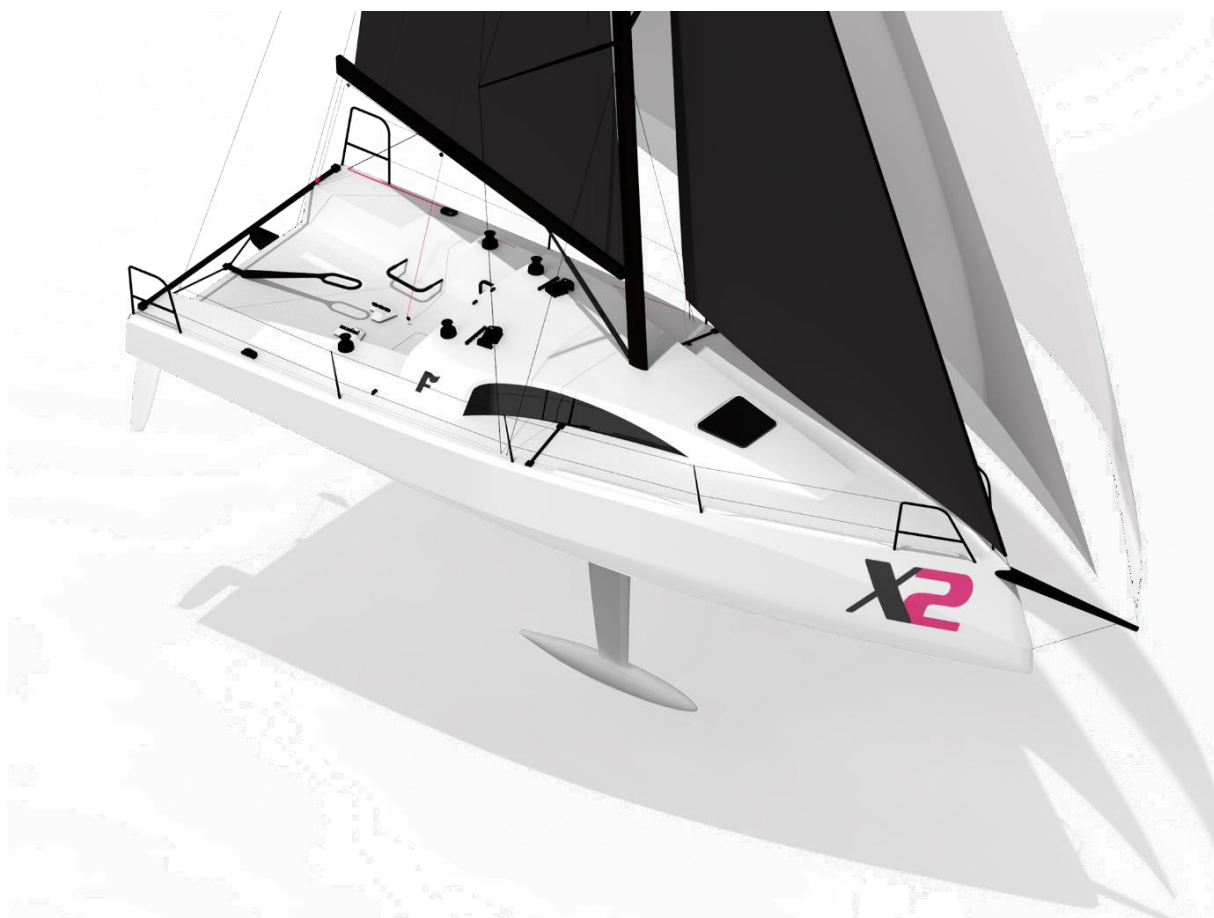


# FARR<sup>®</sup>X2



## Standard Specification

Updated Edition 22/07/21

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## Standard Specification

Length Hull:	9.2m/30'1"
LOA:	10.85m/35'7"
Beam:	3.20m/10'6"
Draft:	2.05m/6'8"
Displacement:	2,450kg/5,402lbs
Ballast:	1000kg/2,205lbs
Water Ballast:	250L
Hull/Deck Construction:	Vinyl ester / PVC Core
ISO Category:	A-4, B-6
Motor:	Volvo Penta D1 - 13

## Rig and Sail Specifications

I:	11.935m
J:	3.880m
P:	12.20m
E:	4.34m
ISP:	13.65m
STL:	5.405m
Headsail Area:	25.0m <sup>2</sup>
Mainsail Area:	34.2m <sup>2</sup>
Asymmetric Spinnaker:	102.0m <sup>2</sup>
Code 0 Area:	57.0m <sup>2</sup>

- Sail area subject to final sail design and rating placement

### Design

Farr Yacht Design, USA.

### Engineering

Ellis Engineered, AUS.

### Builders

XSP, Singapore.

### Project Management

Hyperform Yachting, AUS

### Sales and Marketing

Vicsail, AUS

## 1. General

This specification as dated is deemed to be the latest version and succeeds all previous versions. This specification is to be read in conjunction with the sail plan, deck drawings and interior layout provided by Farr Yacht Design and Ellis Engineered.

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Main dimensions, displacement and ballast refer to a standard yacht. Which is built to the designed specification for such standard yacht – Farr X2.

Optional equipment and customization can affect these values and relative performance of the yacht and can reduce, or limit designed performance criteria, the Farr X2 One Design class conformity and any or all warranty claims.

### 1.1 Documentation

#### Builder's Certificate

A Builder's Certificate is to be supplied with final payment according to the signed sale contract that has been received by the customer. The build certificate ensures all parties are aware that the specific hull number related to that specific certificate is built to the requirements of the designer and engineer.

#### Bill of Sale

A Bill of Sale is supplied when full payment, according to sale contract, has been received. The Bill of Sale verifies that there are no liens on the yacht.

#### Certificate of Delivery

A Certificate of Delivery is to be signed by both parties at the time of the acceptance.

The Certificate of Delivery signifies the formal transfer of ownership and simultaneously commences the warranty period at the given date.

## Warranty

The warranty period for the yacht is 1 year from the date of delivery.

The builder will supply all necessary warranty information in relation to the boat.

FYA will supply manufacturer documentation and/or manuals.

Warranty may be voided if the yacht is used outside of the User Manual and instructions.

All parts installed on the yacht that are provided by external suppliers are subject to the warranty specifications of the supplier.

### 1.2 Tests and Trials

Sea trials for research, development, and final OD sail design to be carried out and signed off by FYA on Hull #1 only. Any changes or upgrades that are related directly to the fit out will be discussed, approved, and administered in a timely and efficient manner.

### 1.3 Construction Approval

ISO Standard Cat A - 4 /Cat B – 6 certification.

CE Certificate of Compliance.

Builders Certificate.

Certificate of origin.

Certificate of Delivery.

Stability index document.

### 1.4 Hull identification

The model and hull number will be shown on the Builder's Plaque and the CIN code on the hull.

### 1.5 Commissioning pack

A complete 'how to' DIY commissioning pack will be supplied.

An easy-to-follow guide to get boat in the water and sailing.

In the case of international purchases local Farr X2 ambassadors can be utilized if required.

Online assistance can be implemented on request.

### 1.6 After sales service

FYA and selected global Farr X2 ambassadors should it need be and where practical will provide unique online and/or in person technical support. A worldwide spare parts service via the Farr X2 dedicated website is also made available to Farr X2 owners.

### 1.7 One Design Class Association

It is the intention to implement the formation of an owner run Global Farr X2 Class Association to put in place various parameters to control one design philosophy. This will ensure class rules are designed around and adhered to from Hull #1 and potentially enable global One Design events.

## 2. Hull

### 2.1 General

The hull design, engineering, and workmanship throughout are consistent with the construction of a light hull, without compromising strength or stiffness as per the ISO Standard requirements.

## 2.2 Laminate

### 2.2.1 General

Hull/deck joint is bonded with structural adhesive.

Critical load areas reinforced with unidirectional reinforcement are used in structural components such as the keel grid and some specific bulkheads.

### 2.2.2 Lay up

Glass-foam sandwich Vinyl Ester laminate vacuum bagged.

Sandwich construction with PVC foam core.

## 2.3 Structure

### 2.3.1 General

The construction of the hull structure components, including the keel box, is of Glass Reinforced Vinyl ester, with specifically designed unidirectional reinforcements.

These components are manufactured separately within specific tooling, then introduced and bonded to the hull with adhesives and laminate taping, under vacuum pressure.

### 2.3.2 Structural bulkheads

Structural bulkheads in composite glass vinyl ester sandwich with some reinforced unidirectional fibres and then bonded to the hull with structural vinyl ester adhesive and/or selected bonding paste (plexus or spa-bond).

### 2.3.3 Chain plates

Side stays chain plates system as per the design are fabricated composite structures.

Forestay chain plate is an externally attached custom stainless-steel fitting rebated into the stem.

## 2.4 Hull finish

### 2.4.1 General

Standard white gelcoat finish

## 3. DECK

### 3.1 Laminate

Vinyl ester female moulded laminate; vacuum bagged.

Sandwich construction with a high-performance PVC foam core.

Structural bulkheads are bonded to the deck with structural adhesive and finish taping.

### 3.2 Deck finish

Weather resistant gel coat with pre applied non-skid (in mould).

### 3.3 Cockpit and Cabin top

Extended cabin top hatch over-hang for green water protection.

Green water diverting cabin top with windows for viewing trim from below.

Green water diverting specific helm position to maximise comfort over long distances.

Viewing window in cabin top centre for easy viewing.

Sunken self-draining life raft locker in the centre of cockpit for easy access and optimal weight distribution.

Specific pre located auto pilot positioning.

### 3.4 Deck Gear

Harken high performance racing package specified by Harken Australia.

2 x Performa 46.2 STP Self Tailing primary winches.

2 x Performa 46.2 STP Self Tailing cabin top winches

Transom mounted traveller track with course and fine tune end boom sheeting control.

Winch-less course topmast runner control with 16:1 fine tune.

Athwartships jib tracks and car for full inboard and full out board set up.

Cross sheet and multi sheet control to primary and cabin top winches.

Spinlock jammers.

Custom carbon bow sprit

1:1 M/Head tack line with Spinlock Jammer

2:1 Tack line Spinlock Jammer

### 3.5 Stanchions and Lifelines.

OSR Cat 1 and ISO/CE Category A offshore stainless-steel stanchions and 5mm1 x 19mm stainless wire lifelines.

Stainless-steel Push and Pull-pit.

Centre aft stanchion for required electronic devices.

### 3.5 Deck Hatches

1 x 63890 Lewmar trapezoid forward hatch

2 x 171020 Lewmar cockpit hatches – Port and Starboard

1 x Lockable main cockpit hatch system

## 4. Interior

Insulated self-draining cool box.

Dedicated tack-able navigation station with galley and gimbaling Jet-boil.

Domestic Sani Potty 960 Series Chemical toilet moulded into structure for safe and secure location – includes privacy section.

Mid ships adjustable lightweight alloy and canvas pipe cots x 2 (port and starboard).

Aft adjustable lightweight alloy and canvas pipe cots x 2 (port and starboard)

Storage under mid ships pipe cots.

Port and Starboard light weight PVC fabric storage lockers.

### 4.1 Interior finish

Stipple finish white gel coat.

Simplistic but practical racing design.



## 5. Keel and Bulb

### 5.1 General

Male/Female cassette style keel connection.

Cast iron fin with moulded composite fairings.

Cast Lead bulb with composite fairings.

Designed and built above current ISO Standard requirements as stated in section 1.3.

## 6. Steering system

### 6.1 General

Twin transom mounted impact-protect kick up system.

Fabricated aluminium open backed rudder cassettes with impact fuse.

Single GRP composite tiller and Spinlock tiller extension.

### 6.2 Rudders

Female moulded removable GRP rudder blades with gelcoat finish.

### 6.3 Emergency steering

Single alloy emergency tiller with easy connect fittings on the top of both cassettes.

## 7. Engine and Propulsion

Volvo Penta D1-13 12.2 Hp

S-drive 130S-D LH ratio 2.19:1

Blade kit, 2-blade, 14x9, LH folding propeller.

Spinlock control face and gear selector.

Fuel shut off valves at tank.

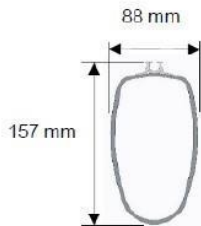
## 8. Rig and Rigging

### 8.1 Rig

Selden T800 Intermediate Modulus carbon fibre.

CnC Pre Preg wound, load orientated filaments to minimise weight and maximise stiffness.

*Section dimension CC154:*



Deck stepped two-piece tube for ease of transport and storage.

T700 Pre Preg mast head with sheave access and mast head instrument mounts.

Twin aerofoil spreaders with 23' aft rake

Machined alloy spreader bars and tangs.

Machined twin top mast backstay tangs and SK 99 cables with Technora cover.

Selden Carbon Rod vang system

M/Head LED tri-light.

1 x Mast Head Halyard sheave exit.

1 x 2:1 15/16 Code Zero halyard sheave and exit.

1 x 2:1 Main halyard sheave and exit.

1 x External jib halyard hanger, lock, sheave, and

exit. 1 x 2:1 GS/SS/J5 sheave and exit.

Lazy jack allocated take offs

Dye-form standing rigging.

2 reef carbon boom with 2 spinlock reef jammers.

Boom lazy jack attachments.

Aluminium mast base with halyard organisers.

### 8.2 Running Rigging **REMOVE ALL COLOURS**

1 x 2:1 Main Halyard - SK99 8mm Performance Technora

1 x 1:1 Mast Head Halyard – SK78 8mm Performance inTechnora.

1 x 1:1 Jib Halyard – SK99 8mm Performance Technora.

1 x 1:1 Mast Head Tack Line – 78 8mm Performance in Technora.

Jib sheeting control system – Port and Starboard. SK78 6mm

Course tune main sheet – SK78 8mm Performance Technora.

Fine tune main sheet – SK78 8mm Performance Technora.

\*Top mast backstay control lines with fine tune – SK78 6/8mm Performance.

2 x Jib Sheets – SK78 8mm Performance Technora.

- 2 x Spin Sheets – SK78 8mm Performance Technora.
- \*2 x reefing control systems – SK78 8mm Performance.
- \*1 x Main traveller system – SK78 6mm Performance.
- \*1 x Vang control – SK78 6mm Performance.

\* Colours to be confirmed

### 8.3 Bow Sprit

1.6m Carbon Bow Sprit

1 x 1:1 M/Head tack line exit

1 x 15/16 2:1 Code Zero exit

Quick connect removable sprit for travel and smaller marina berth requirements.

SK99 Bobstay

## 9. Electrics

### 9.1 House Electrics

2 x Way switchboard

3 x Battery switches (on, off and parallel)

VSR -charging relay

3 x interior Hella LED lights

Magnetic compass with power/light circuit

VDO Fuel gauge and sender

Ener-drive Battery Monitor

1 x 50 ah sealed gel engine battery – Optima Blue Top

1 x 120 ah sealed house battery – Dekka AGM

1 x dc outlet

1 x Hella 2LT 980 650-001 M/Head Tri Light.

Removable shore battery charger.

Purpose designed and pre-made house electrics loom with full schematic plan for easy maintenance.

## 10. Sails

### 10.1 Base Sail Inventory

#### 1 x 2 Reef Offshore Main

- 1<sup>st</sup> reef positioned as a 1.5 reef
- 2<sup>nd</sup> reef positioned as a 3<sup>rd</sup> reef to meet OSR storm sailing regulations
- Mainsail must be able to be reefed to 50% negating a need for a trysail.

1 x All Purpose 1 reef jib.

1 x All Purpose Mast Head Spinnaker.

1 x Generic Farr X2 boom cover.

## 11. Equipment

### 11.1 Manuals

A detailed owners-manual is provided by FYA which outlines instructions for use, maintenance, schematic drawings, design drawings, diagrams of systems, supplied equipment manuals and separate supplier warranties.

## 12. Plumbing

### 12.1 Water Ballast System

1 x Custom water ballast in/out valve operational from cockpit.

2 x 250L water ballast tanks in built.

Transfer plumbing system operational from cockpit.

### 12.2 Galley

1 x galley through hull with seacock.

1 x Foot pump for fresh-water system.

1 x 40L fresh-water tank soft pack.

### 12.3 Bilge Pumps

1 x Cockpit manual bilge pump Cat 1 compliant

1 x Interior manual bilge pump Cat 1 compliant with full boat roving capabilities.

## 13. Shipping Cradle

Full support splashes for Upright and 90' position suitable for transport

