

## Farr 11s

### 11meter Canting Keel Day Racer

**Projected Price: \$225,000**  
**Boat #3 available June 2007**



**Projected IRC Rating**  
**\* TCC: 1.285 \***  
 This is a projected IRC TCC factor;  
 a trial certificate is forth coming.

<b>LOA:</b>	<b>36.68' (11.18 m)</b>
<b>DWL:</b>	<b>32.81' (10.00 m)</b>
<b>Beam:</b>	<b>11.25' (3.281 m)</b>
<b>Draft:</b>	<b>8.86' (2.70 m)</b>
<b>Displacement:</b>	<b>5,300 lbs. (2,400 Kg)</b>
<b>Ballast:</b>	<b>2,400 lbs. (1,090 Kg)</b>
<b>DLR:</b>	<b>68</b>
<b>RM @ 1 Degree</b>	<b>2,500 Kg-m</b>
<b>RM @ 20 Degrees</b>	<b>4,000 Kg-m</b>
<b>Upwind Sail Area/Displ:</b>	<b>44</b>
<b>Downwind Sail Area/Displ:</b>	<b>102</b>
<b>I:</b>	<b>43.15' (13.15 m)</b>
<b>J:</b>	<b>11.65' (3.55 m)</b>
<b>P:</b>	<b>49.94' (15.22 m)</b>
<b>E:</b>	<b>18.73' (5.71 m)</b>
<b>ISP:</b>	<b>54.86' (16.72 m)</b>
<b>TPS:</b>	<b>20.77' (6.33 m)</b>

**FARR YACHT SALES LLC**

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## **Farr 11s** **11meter Canting Keel Day Racer**

### **Designer Comments**

The **Farr 11s**, design #613, represents the culmination of intense discussions with a client, who previously owned a Farr 36 One Design. His carefully prepared brief called for an inshore boat with sufficient freeboard for coastal race capability, legs out hiking and minimal interior. The goal was to produce a very fast keelboat for its size (35 to 38 ft) crewed by no more than 6 or 7 intermediate level sailors. Racing venues included Key West, the Great Lakes and a variety of other regattas.

The challenge was to incorporate as many go fast features as possible while staying within sensible limits of price, ease of operation, and meeting safety standards of category 3 Offshore Special Regulations including stability and fit out requirements. The obvious goals are to provide high stability to carry a powerful sail plan, keep the whole package as light as possible, reduce drag, and produce a boat that will break out into high speeds in a controllable manner. These goals are blended with the desire to be a good all-round buoys racer in a wide range of wind speeds, good in coastal type races where reaching performance and handling are important, and avoid any glaring weaknesses that are seen in some attempts at this concept.

The **Farr 11s** has a 45-degree canting keel with twin asymmetric canards and twin retractable rudders on a hull with high form stability. This combination has been explored in our research work for the Open 60, Volvo 70, Cookson 50 and the 30meter canting-keel Maxi Leopard 3 and this project presented fertile ground to draw from our experience. The hull shape combines the demands for minimizing light air (low speed) drag with high-speed stability and excellent handling qualities. Twin rudders will help control in extreme conditions while the raked bow offers better wave jumping/piercing control.

The rig is developed from a skiff-rig concept with highly swept spreaders and no backstay allowing easy tacking and jibing of the large square-headed mainsail. The concept should provide some automatic depowering, and minimize demands on the crew during maneuvers, leaving hands available for keel/canard manipulation and sail handling. The retractable bowsprit stretches the sail plan to allow ample downwind sail area in the form of asymmetric spinnakers.

Construction calls for carbon fiber skins with honeycomb core sandwich. The keel fin is also carbon fiber with a 1,090 Kg lead bulb with an overall displacement of 2400 Kg. Motoring power comes from an 15 HP outboard that is retractable in a well that opens to the cockpit. Keel canting is activated by an electro-hydraulic pump system requiring 10 - 15 seconds for full keel articulation in tacks and jibes.

The boat is being built by Premier Composite Technologies in Dubai who have received ongoing orders. Hull #1 is due to launch in Dubai in February 2007, boat #2 has also been sold and headed to Switzerland in April/May 2007: boat #3 is available for delivery in approximately June 2007.

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## Farr 11s 11meter Canting Keel Day Racer

**IRC Time-difference table generated for the Farr 11s with a projected TCC rating of 1.285**

Yacht	TCC		48 Hr	36 Hr	24 Hr	12 Hr	6 Hr	3 Hr	2 Hr	1 Hr	30 Min	20 Min	10 Min
Melges 32	1.170	U Owe Them	-15465 sec 04:17:44	-11598 sec 03:13:18	-7732 sec 02:08:52	-3866 sec 01:04:26	-1933 sec 00:32:13	-967 sec 00:16:06	-644 sec 00:10:44	-322 sec 00:05:22	-161 sec 00:02:41	-107 sec 00:01:47	-54 sec 00:00:53
DK 46	1.211	U Owe Them	-9951 sec 02:45:51	-7463 sec 02:04:23	-4976 sec 01:22:55	-2488 sec 00:41:27	-1244 sec 00:20:43	-622 sec 00:10:21	-415 sec 00:06:54	-207 sec 00:03:27	-104 sec 00:01:43	-69 sec 00:01:09	-35 sec 00:00:34
ORC GP42	1.264	U Owe Them	-2824 sec 00:47:03	-2118 sec 00:35:17	-1412 sec 00:23:31	-706 sec 00:11:45	-353 sec 00:05:52	-176 sec 00:02:56	-118 sec 00:01:57	-59 sec 00:00:58	-29 sec 00:00:29	-20 sec 00:00:19	-10 sec 00:00:09
R/P30 Cone	1.271	U Owe Them	-1883 sec 00:31:22	-1412 sec 00:23:31	-941 sec 00:15:41	-471 sec 00:07:50	-235 sec 00:03:55	-118 sec 00:01:57	-78 sec 00:01:18	-39 sec 00:00:39	-20 sec 00:00:19	-13 sec 00:00:13	-7 sec 00:00:06
Ker 50	1.279	U Owe Them	-807 sec 00:13:26	-605 sec 00:10:05	-403 sec 00:06:43	-202 sec 00:03:21	-101 sec 00:01:40	-50 sec 00:00:50	-34 sec 00:00:33	-17 sec 00:00:16	-8 sec 00:00:08	-6 sec 00:00:05	-3 sec 00:00:02
Farr 11s	1.285	You	0	0	0	0	0	0	0	0	0	0	0
R/P45 Sjambok	1.305	They Owe U	2689 sec 00:44:49	2017 sec 00:33:37	1345 sec 00:22:24	672 sec 00:11:12	336 sec 00:05:36	168 sec 00:02:48	112 sec 00:01:52	56 sec 00:00:56	28 sec 00:00:28	19 sec 00:00:18	9 sec 00:00:09
Cookson 50	1.319	They Owe U	4572 sec 01:16:12	3429 sec 00:57:09	2286 sec 00:38:06	1143 sec 00:19:03	572 sec 00:09:31	286 sec 00:04:45	191 sec 00:03:10	95 sec 00:01:35	48 sec 00:00:47	32 sec 00:00:31	16 sec 00:00:15
TP 52	1.352	They Owe U	9010 sec 02:30:09	6757 sec 01:52:37	4505 sec 01:15:04	2252 sec 00:37:32	1126 sec 00:18:46	563 sec 00:09:23	375 sec 00:06:15	188 sec 00:03:07	94 sec 00:01:33	63 sec 00:01:02	31 sec 00:00:31
R/P67 BY	1.413	They Owe U	17213 sec 04:46:52	12910 sec 03:35:09	8606 sec 02:23:26	4303 sec 01:11:43	2152 sec 00:35:51	1076 sec 00:17:55	717 sec 00:11:57	359 sec 00:05:58	179 sec 00:02:59	120 sec 00:01:59	60 sec 00:00:59

Notes: Discrepancies between total secs and hh:mm:ss may be due to rounding during conversion / This table is to be used as reference only.

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## **Farr 11s** **11meter Canting Keel Day Racer**

### **Premiere Composites** **Preliminary Builder Specifications**

#### **CONSTRUCTION**

Male hull mould & female deck mould  
Carbon Fiber w/ honeycomb core  
Epoxy resin with Carbon pre-preg  
Interior: structural carbon fiber  
Hull & Deck AwlGrip finished

#### **MECHANICAL**

15Hp retractable high thrust 2-stroke Yamaha  
outboard in covered cockpit well with hull closure  
Cockpit mounted engine panel  
Key switch, electric start, tachometer and alarm  
Single lever throttle/shift control  
40-liter fuel tank  
Battery charging and condition meter  
Electric bilge pump

#### **ELECTRICAL**

12 volt distribution/circuit breaker panel  
(2) 12 volt batteries in boxes  
(1) Engine start battery  
Hydraulic electronic controller  
Hydraulic-electrical distribution system  
(1) Bilge pump  
ISAF approved running lights

#### **INTERIOR**

Interior AwlGrip finished in service areas.  
2 gimbale pipe berths.  
Marine Porta-potty  
Bladder water tank  
Hand operated delivery system  
Carbon Fiber galley basin  
Stainless steel gimbale 2-ring camping stove  
Red and white cabin lights

#### **HARDWARE**

Spinnlock organizers & stoppers  
(1) Bow pulpit  
(2) Stern pushpits  
(8) Stanchions  
Stainless steel lifeline wires  
Harken winches  
Harken bocks and sailing hardware  
Harken Athwart ship Jib Tracks

#### **RUDDER/STEERING**

Carbon stock inside foam and carbon blade  
Transom hung carbon rudder cassettes  
Windward blade lifts inside cassette to reduce  
wetted surface  
Under-deck steering linkages  
Carbon fiber tiller

#### **KEEL**

CNC machined carbon/foam keel fin  
Female molded fin blade  
Machined Lead keel bulb  
Keel removable for trailering  
+/-45 degrees of keel cant

#### **CANTING SYSTEM**

45 degree canting angle per side  
10 - 15 second full cant speed  
Single high-strength stainless steel cylinder  
High-strength stainless steel pivot pins  
Brackets mounted to carbon fiber structure  
Electric DC hydraulic power pack  
CNC machined canting components

#### **SPARS**

##### **Formula Composite Spars**

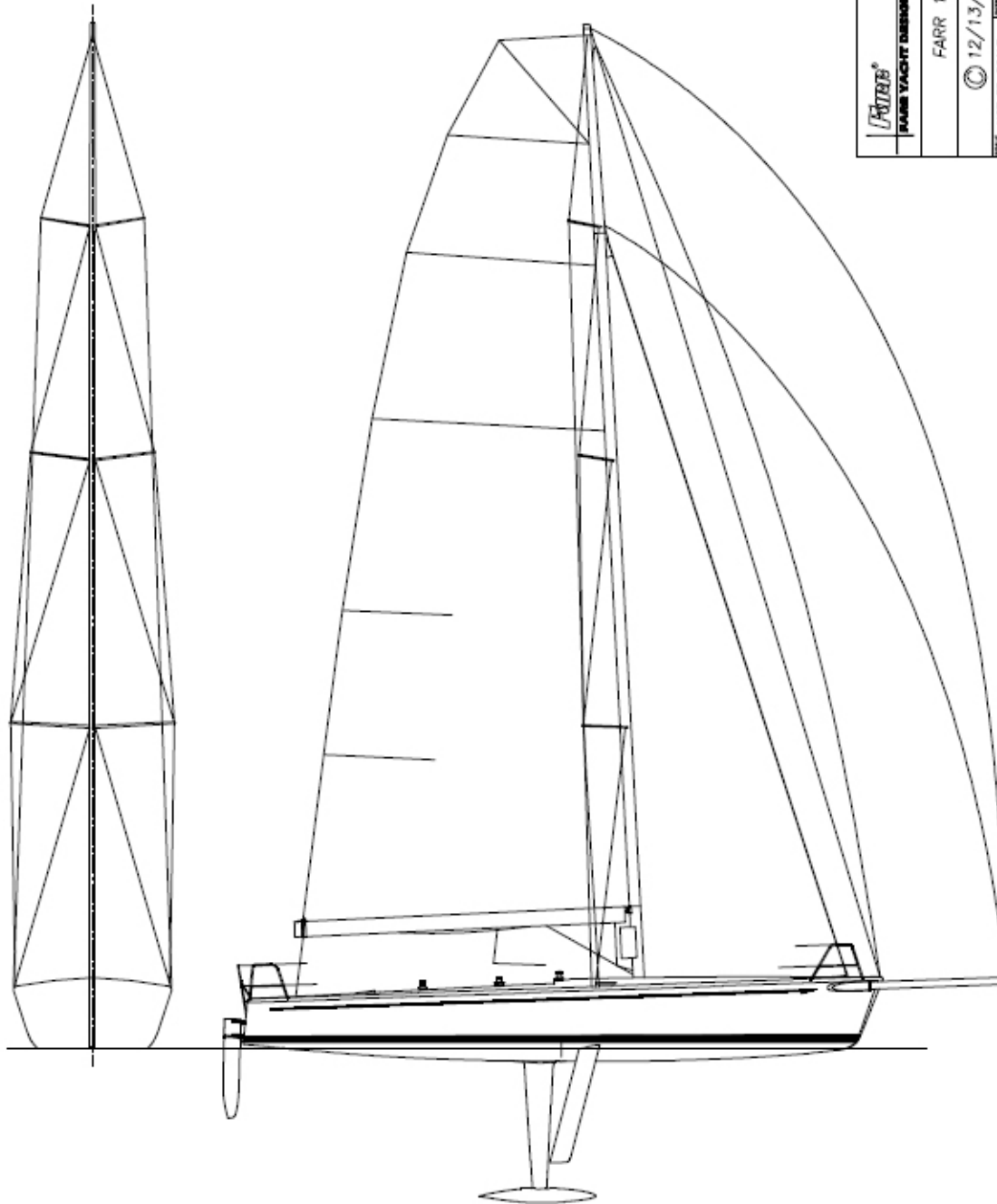
High Modulus Carbon Fiber Mast  
Carbon Fiber Boom  
(3) sets Carbon Fiber Spreaders  
Carbon retractable sprit  
Nitronic rod standing rigging (PBO optional)  
Complete running rigging  
Instrument Bracket

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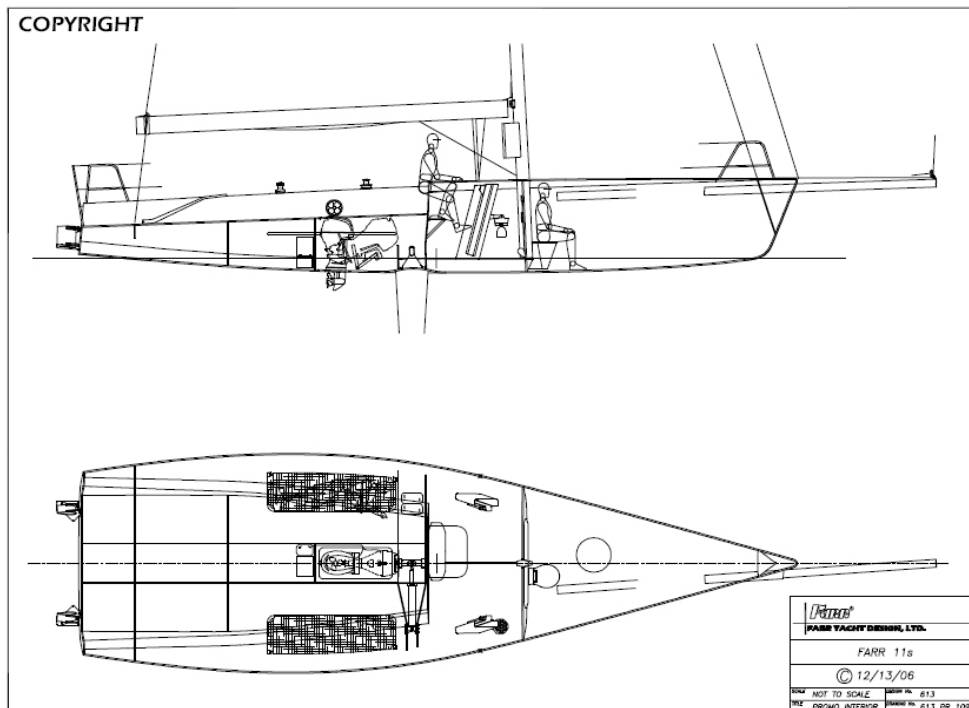
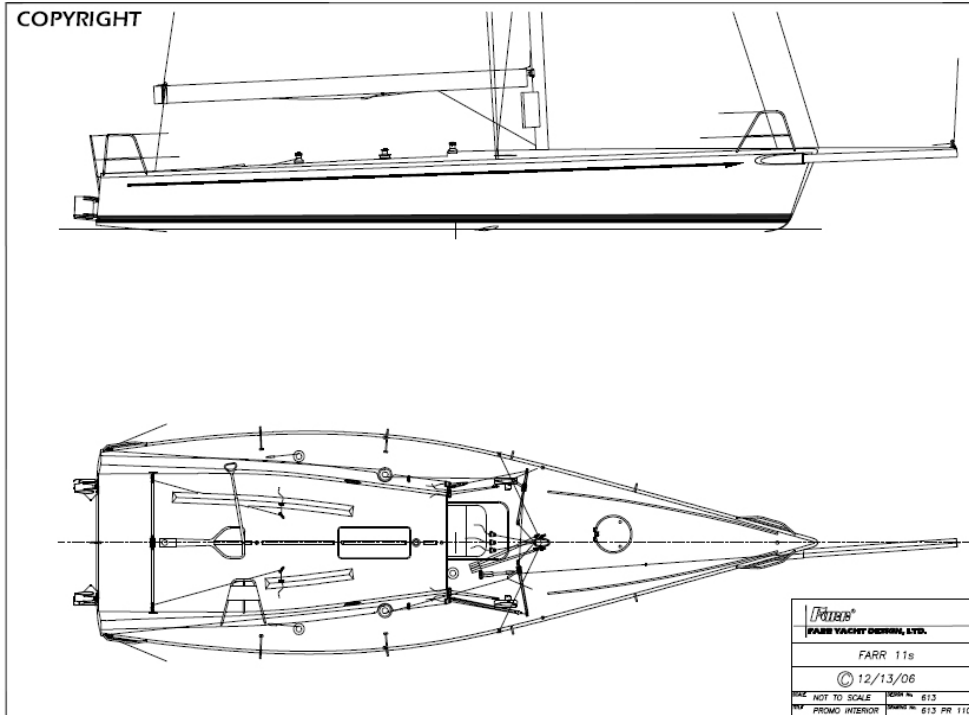
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SCALE	NOT TO SCALE
NO.	PROMO SAULPLAN
DESIGN NO.	613
ISSUE NO.	613 PR 111



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