

BOAT
Name FARR 30 ONE-DESIGN
Sail Nr

GPH
581.2

HULL			
Length Overall	9.435m	Maximum Beam	3.038m
Displacement	2,111kg	Draft	2.123m
IMS Reg. Division	Performance	Dynamic Allowance	0.001%
Fwd Accommodation	No	Hull Construction	Cored
Carbon Rudder	Yes	Crew Arm Extension	
IMSL	8.800m	VCGD	-0.414m
RL	9.128m	VCGM	-0.349m
LSM0	8.546m	Displacement/Length ratio	3.3822
		Sink	11.51kg/mm
		WS	15.45m ²



World Leader in Rating Technology

2019 (Test)
ORC International
One Design Certificate

Rating Office

GENERAL
Class FARR 30
Designer FARR
Builder
Series 03/1996
Age 03/1996
Age Allowance 0.487%
Offset File FARR30.OD - 15/01/2019 15:06:24
Measurement by CLASS + MANY - 01/03/1996

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	567.4			634.4		
Time on Time	1.0575			1.0640		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	643.8	524.1	462.6	821.0	640.2	559.1
Time on Time	1.0484	1.2879	1.4591	0.8222	1.0543	1.2072

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	934.8	776.0	718.7	698.9	690.7	677.2	677.1
52°	617.4	538.5	515.7	506.2	501.0	496.0	487.1
60°	585.0	525.2	501.9	489.2	481.5	477.1	463.2
75°	562.8	515.1	485.9	462.5	449.2	441.2	429.2
90°	566.9	514.1	483.1	451.6	426.5	408.8	392.3
110°	558.5	499.5	467.3	445.7	424.1	402.1	354.6
120°	569.9	502.9	459.3	427.1	405.9	383.9	342.6
135°	633.6	527.8	482.9	437.8	393.6	353.0	307.0
150°	753.5	608.8	528.1	484.5	443.2	401.5	316.4
Run VMG	870.0	702.9	606.9	549.5	506.2	464.7	365.3

Certificate
Number FARR30
ORC Ref N/A
Issued On 15/01/2019
VPP Ver. 2019 1.01
Invalid for Racing

Crew Weight
Default 550kg
Maximum 525kg
Minimum* 394kg
<i>*when applied by the NoR and SI</i>
Non Manual Pwr No

Special Scoring	
ToD	ToT
Non Spin GPH 621.2	0.9659
Non Spin OSN 605.6	0.9908

Selected Courses							
Windward / Leeward	902.4	739.5	662.8	624.2	598.4	570.9	521.2
Circular Random	779.8	639.8	566.1	522.7	493.8	471.6	436.2
Coastal / Long Distance	899.2	699.1	603.6	547.4	511.0	475.6	415.8
Non Spinnaker	852.5	690.3	603.4	552.1	519.0	495.4	461.3

Sails Limitations	
Headsails 5	Spinnakers 3

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	41.8°	39.9°	37.3°	36.6°	36.3°	35.6°	36.0°
Beat VMG	3.85	4.64	5.01	5.15	5.21	5.32	5.32
52°	5.83	6.68	6.98	7.11	7.19	7.26	7.39
60°	6.15	6.85	7.17	7.36	7.48	7.55	7.77
75°	6.40	6.99	7.41	7.78	8.01	8.16	8.39
90°	6.35	7.00	7.45	7.97	8.44	8.81	9.18
110°	6.45	7.21	7.70	8.08	8.49	8.95	10.15
120°	6.32	7.16	7.84	8.43	8.87	9.38	10.51
135°	5.68	6.82	7.45	8.22	9.15	10.20	11.72
150°	4.78	5.91	6.82	7.43	8.12	8.97	11.38
Run VMG	4.14	5.12	5.93	6.55	7.11	7.75	9.85
Gybe Angles	143.4°	146.3°	154.2°	161.4°	180.0°	150.2°	145.7°

Class Division Length
CDL = 8.964

Storm Sails Areas	
Heavy Weather Jib	18.30
Storm Jib (JL=7.57)	6.78
Storm Trysail	9.61

Owner
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	Name FARR 30 ONE- File farr30	Sail Nr Data in meters/kilograms
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RIG	Forestay Tension Aft Inner Stay None Fitted Carbon Mast Yes Taper Hollows No Fiber Rigging No Lenticular Rigging No Articulated Bowsprit No	Spreaders 2 Runners 0 Jumper Struts None Jib Furler No Main Furler No Without Backstay No	P 12.360 IG 11.640 ISP 13.620 BAS 1.255 FSP 0.054	E 4.440 J 3.320 SFJ 0.100 SPL 4.140 TPS	MDT1 0.085 MDL1 0.143 MDT2 0.065 MDL2 0.105 TL 2.000	MW 0.143 GO 0.143 BD 0.134 MWT 64.30 MCG 4.755
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MIZZEN RIG AND SAILS	N/A
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COMMENTS	
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INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date 02/04/2016				SG 1.0162	
FFM 1.046	FF 1.048	SFFP 0.222	FAM 0.783	FA 0.784	SAFP 8.685
W1 10.0	PD1 171.3	WD 10.705	W2 20.0	PD2 343.5	GSA 1.0
W3 30.0	PD3 513.8	RSA 1.0	W4 40.0	PD4 689.7	PLM 9000.0
LCF from stem on CL / on sheer				5.250 / 5.440	
Maximum beam station from stem				5.825	
RM Measured				49.2kg-m	
RM Default				51.9kg-m	
Limit of positive stability / Stab.Index				130.9° / 124.6	
Freeboard at mast at 3.420				0.953	

PROPELLER					
Installation Strut	PRD 0.352				
Type Folding 2 blades	PBW 0.090				
Twin Screw No	PIPA 0.0032				
ST1 0.042	ST3 0.178	ST5 0.248			
ST2 0.178	ST4 0.114	EDL 1.278			

MOVABLE BALLAST	N/A
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CENTERBOARD	N/A
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2019

IMS Measurement Certificate

Certificate

Number **FARR30**
ORC Ref **N/A**
Issued On **15/01/2019**
VPP Ver. **2019 1.01**

Invalid for Racing

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.11	1.96	3.17	3.95	35.26	36.36	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	89.77		SL · (SFL + 4·SHW) / 6	
	14.10	14.10	14.10	7.60	7.80				
Asymmetric	SLU	SLE	SL	SHW	SFL	93.75		AS · (SFL + 4·SHW) / 6	
	14.80	13.90	14.35	7.90	7.60				

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.08	0.49	0.95	1.78	2.62	3.45	11.85	20.99	Y				* Copied from legacy *

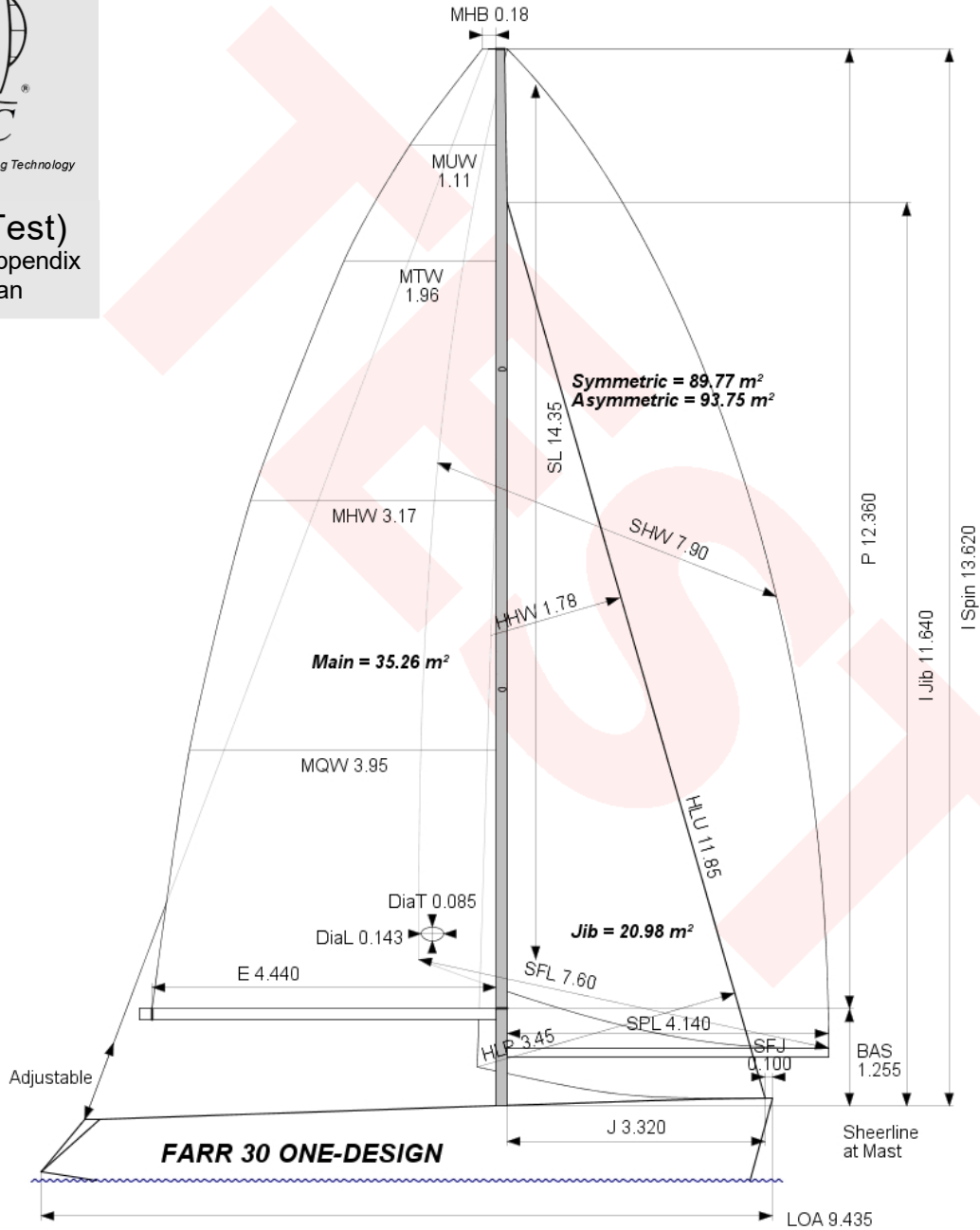
MEASUREMENT INVENTORY				
Measurer	Date	Comment		
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight	Description	

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.18	1.11	1.96	3.17	3.95	35.26					* Copied from legacy					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.08	0.49	0.95	1.78	2.62	3.45	11.85	104%	20.99	Y						* Copied from legacy *
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
F30	14.10	14.10	14.10	7.60	7.80	89.77					CR					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
F30	14.80	13.90	14.35	7.90	7.60	93.76	asym	CR			Unknown	On Sym Pole SPL 4.140				