

BOAT
Name FARR 40 ONE DESIGN Sail Nr F40

GPH
530.3

HULL	
Length Overall	12.411m
Maximum Beam	3.956m
Displacement	4.970kg
Draft	2.591m
IMS Reg. Division	Performance
Dynamic Allowance	0.001%
Fwd Accommodation	No
Hull Construction	Cored
Carbon Rudder	Yes
Crew Arm Extension	
IMSL	11.219m VCGD -0.338m Sink 20.97kg/mm
RL	11.032m VCGM -0.336m WS 27.68m²
LSM0	10.889m Displacement/Length ratio 3.8494



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2017 (Test)
ORC International
One Design Certificate

GENERAL
Class FARR 40 OD
Designer FARR
Builder CARROLL
Series 05/1997
Age 05/1998
Age Allowance 0.487%
Offset File FARR40.OD - 25/01/2017 19:30:20
Measurement by WILLIAMS - 01/01/2000

Rating Office

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	517.5			582.2		
Time On Time	1.1595			1.1594		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	596.3	474.6	417.6	771.9	586.8	510.2
Time on Time	1.1320	1.4223	1.6165	0.8745	1.1503	1.3230

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	884.9	726.2	662.6	635.7	618.8	605.3	601.9
52°	574.3	483.7	460.0	449.9	443.7	435.7	427.9
60°	536.4	466.2	445.1	434.0	426.5	419.1	406.4
75°	504.9	452.9	425.9	407.6	397.0	390.3	374.7
90°	503.3	451.2	421.2	392.7	372.9	361.8	350.2
110°	524.3	450.7	422.1	400.1	380.6	360.9	314.9
120°	541.1	456.7	417.5	390.0	370.9	351.7	312.6
135°	599.9	484.9	441.0	404.9	368.7	332.3	291.9
150°	712.3	566.2	485.7	443.4	410.7	377.9	309.5
Run VMG	822.5	653.8	560.7	503.6	465.3	433.7	357.4

Certificate
Number FARR40
ORC Ref N/A
Issued On 17/03/2017
VPP Ver. 2017 1.00
Invalid for Racing

Crew Weight
Declared 760kg
Default* 777kg
Non Manual Pwr No

Special Scoring	
	ToD ToT
Double H.GPH	538.7 1.1138
Double H.OSN	528.6 1.1352
Non Spin GPH	561.4 1.0688
Non Spin OSN	549.4 1.0921

Selected Courses							
Windward / Leeward	853.7	690.0	611.7	569.7	542.0	519.5	479.7
Circular Random	721.6	586.9	515.5	473.7	446.2	425.9	395.5
Ocean for PCS	887.5	689.5	578.8	510.6	464.4	429.7	376.6
Non Spinnaker	776.9	626.3	544.9	496.5	465.2	443.2	412.6

Sails Limitations	
Headsails	Spinnakers
6	4

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	43.3°	42.5°	39.7°	38.6°	37.5°	36.9°	37.2°
Beat VMG	4.07	4.96	5.43	5.66	5.82	5.95	5.98
52°	6.27	7.44	7.83	8.00	8.11	8.26	8.41
60°	6.71	7.72	8.09	8.29	8.44	8.59	8.86
75°	7.13	7.95	8.45	8.83	9.07	9.22	9.61
90°	7.15	7.98	8.55	9.17	9.65	9.95	10.28
110°	6.87	7.99	8.53	9.00	9.46	9.97	11.43
120°	6.65	7.88	8.62	9.23	9.71	10.23	11.52
135°	6.00	7.42	8.16	8.89	9.76	10.83	12.33
150°	5.05	6.36	7.41	8.12	8.76	9.53	11.63
Run VMG	4.38	5.51	6.42	7.15	7.74	8.30	10.07
Gybe Angles	143.2°	142.8°	150.2°	157.3°	172.5°	180.0°	142.5°

Class Division Length
CDL = 11.127

Storm Sails Areas	
Heavy Weather Jib	35.49
Storm Jib (JL=10.54)	13.14
Storm Triesail	17.24

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

BOAT	
Name FARR 40 ONE	Sail Nr F40
File farr40	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Enter RM directly			
Flotation date 25/05/1998		SG 1.0140	
		RMCe 171.6	
FFM 1.336	FF 1.346	SFFP 0.152	
FAM 1.020	FA 1.026	SAFP 11.954	
LCF from stem on CL / on sheer		6.834 / 7.087	
Maximum beam station from stem		8.199	
RM Measured		171.6kg·m	
RM Default		166.0kg·m	
Limit of positive stability / Stab.Index		130.3° / 126.7	
Freeboard at mast at 4.705		1.203	

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast Yes	Jumper Struts None			
Taper Hollows No	Jib Furler No			
Fiber Rigging No	Main Furler No			
Lenticular Rigging No	Without Backstay No			
Articulated Bowsprit No				
P 16.700	E 5.900	MDT1 0.121	MW 0.240	
IG 16.179	J 4.705	MDL1 0.240	GO 0.250	
ISP 18.275	SFJ 0.000	MDT2 0.090	BD 0.225	
BAS 1.745	SPL 5.200	MDL2 0.104	MWT 176.70	
FSP 0.068	TPS	TL 1.993	MCG 5.497	



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2017

IMS Measurement Certificate

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.407		
Type Folding 2 blades	PBW		
Twin Screw No	PIPA 0.0035		
ST1 0.041	ST3	ST5 0.268	
ST2	ST4 0.111	EDL 0.702	

Certificate
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ORC Ref N/A
Issued On 17/03/2017
VPP Ver. 2017 1.00
Invalid for Racing

COMMENTS	
MASTHEAD SPINNAKER VALID ONLY IN CONJUNCTION WITH FARR 40 CLASS CERTIFICATE	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

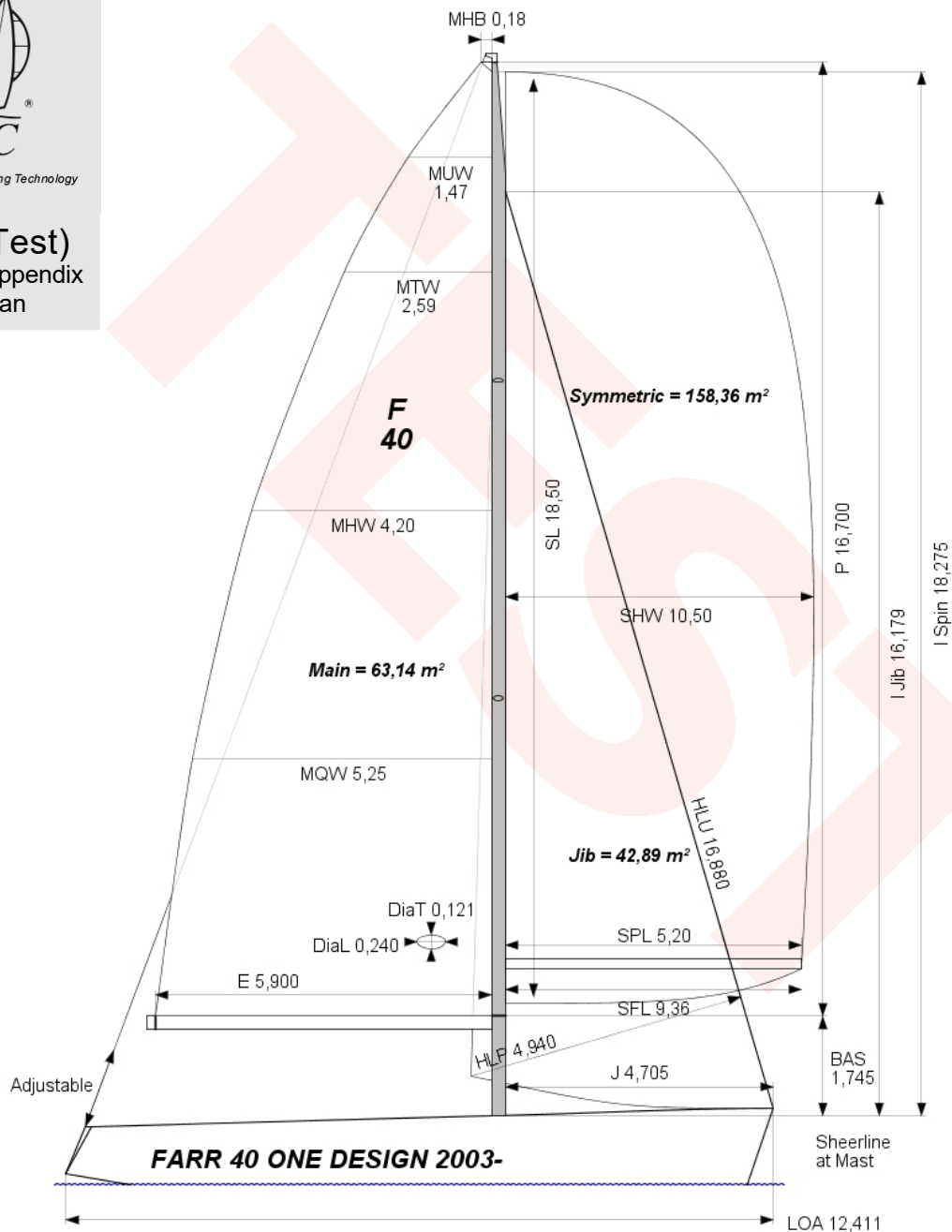
SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.180	1.47	2.59	4.20	5.25	63.14	65.04	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	18.50	18.50	18.50	10.50	9.36	158.36	SL · (SFL + 4·SHW) / 6		
Asymmetric	Not Available								

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
0.15	0.68	1.34	2.58	3.76	4.94	42.89					Unknown	One Design Rules



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2017 (Test)
Certificate Appendix
Sail Plan



SAILS INVENTORY

MANSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.180	1.47	2.59	4.20	5.25	63.14					* Copied from legacy

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.15	0.68	1.34	2.58	3.76	4.94		105%	42.89							Unknown One Design Rules

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	18.50	18.50	18.50	10.50	0.00	158.36					* Copied from legacy *

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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