

BOAT		GPH	HULL			
Name Fareast 28R Sail Nr MNA 1234		594.5	Length Overall 8.520m Maximum Beam 2.772m Displacement 1,321kg Draft 1.703m IMS Reg. Division Sportboat Dynamic Allowance 0.060% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension			
GENERAL						
Class Fareast 28R Designer Simonis-Voogd Builder Fareast Boats Series 02/2015 Age 02/2015 Age Allowance 0.098% Offset File fareast28ts.off - 02/05/2018 12:53:02 Measurement by ZORAN - 29/11/2017		IMSL 8.431m VCGD -0.095m Sink 11.63kg/mm RL 8.420m VCGM -0.084m WS 14.59m² LSM0 8.338m Displacement/Length ratio 2.2789				



World Leader in Rating Technology

2018 (Test)
ORC International
Certificate

Rating Office

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	577.8			654.4		
Time on Time	1.0385			1.0315		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	676.0	530.6	458.7	869.4	662.9	566.0
Time on Time	0.9985	1.2721	1.4717	0.7764	1.0183	1.1926

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1008.8	817.2	748.4	727.7	719.7	705.6	707.9
52°	657.8	552.9	523.8	513.5	508.1	499.8	491.3
60°	620.4	536.6	505.4	491.4	483.5	475.4	461.5
75°	593.8	525.5	483.5	455.3	442.6	435.5	414.2
90°	595.5	521.9	484.1	440.2	409.6	395.9	382.5
110°	585.0	504.4	455.9	427.0	400.1	378.7	331.1
120°	599.7	511.8	452.0	408.1	381.1	357.9	317.4
135°	672.9	544.1	487.5	431.2	375.2	330.2	280.2
150°	800.0	630.1	541.1	492.0	440.8	389.2	291.5
Run VMG	923.8	727.6	625.3	568.2	509.0	449.4	336.6

Selected Courses							
Windward / Leeward	966.3	772.4	686.8	647.9	614.3	577.5	522.2
Circular Random	816.5	661.1	577.8	527.9	494.3	468.8	429.8
Coastal / Long Distance	962.0	727.9	620.1	556.3	512.2	470.5	404.8
Non Spinnaker	900.2	720.4	622.8	564.6	526.8	499.9	461.6

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	43.8°	41.8°	38.9°	38.6°	38.3°	37.8°	38.8°
Beat VMG	3.57	4.41	4.81	4.95	5.00	5.10	5.09
52°	5.47	6.51	6.87	7.01	7.09	7.20	7.33
60°	5.80	6.71	7.12	7.33	7.45	7.57	7.80
75°	6.06	6.85	7.45	7.91	8.13	8.27	8.69
90°	6.05	6.90	7.44	8.18	8.79	9.09	9.41
110°	6.15	7.14	7.90	8.43	9.00	9.51	10.87
120°	6.00	7.03	7.96	8.82	9.45	10.06	11.34
135°	5.35	6.62	7.39	8.35	9.60	10.90	12.85
150°	4.50	5.71	6.65	7.32	8.17	9.25	12.35
Run VMG	3.90	4.95	5.76	6.34	7.07	8.01	10.70
Gybe Angles	143.1°	145.7°	150.5°	148.9°	145.0°	144.9°	142.6°

Certificate
Number ORC Ref N/A Issued On 02/05/2018 VPP Ver. 2018 1.00 Invalid for Racing

Crew Weight
Default 531kg Maximum 425kg Minimum* 319kg <i>*when applied by the NoR and SI</i> Non Manual Pwr No

Special Scoring
ToD ToT Double H.GPH 608.4 0.9862 Double H.OSN 595.9 1.0069 Non Spin GPH 642.5 0.9339 Non Spin OSN 623.9 0.9617

Sails Limitations
Headsails 5 Spinnakers 3

Class Division Length
CDL = 8.426

Storm Sails Areas
Heavy Weather Jib 14.80 Storm Jib (JL=6.81) 5.48 Storm Trysail 6.99

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

BOAT	
Name Fareast 28R	Sail Nr MNA 1234
File Fareast28R OD	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 24/04/2018		SG 1.0260
FFM 0.904	FF 0.904	SFFP 0.426
FAM 0.677	FA 0.677	SAFP 8.521
W1 36.0	PD1 535.2	WD 7.590
W2 36.0	PD2 539.8	GSA 1.0
W3 36.0	PD3 541.6	RSA 1.0
W4 36.0	PD4 539.8	PLM 9000.0
LCF from stem on CL / on sheer		4.775 / 4.998
Maximum beam station from stem		6.400
RM Measured		39.9kg·m
RM Default		42.7kg·m
Limit of positive stability / Stab.Index		110.2° / 103.0
Freeboard at mast at 3.560		0.897

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast No	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 10.650	E 3.750	MDT1 0.090	MW 0.140	
IG 10.470	J 3.240	MDL1 0.140	GO 0.140	
ISP 11.790	SFJ 0.320	MDT2 0.090	BD	
BAS 1.260	SPL	MDL2 0.090	MWT	
FSP 0.000	TPS 5.310	TL 1.440	MCG	


MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



World Leader in Rating Technology

2018

IMS Measurement Certificate

Certificate
Number
ORC Ref N/A
Issued On 02/05/2018
VPP Ver. 2018 1.00
Invalid for Racing

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.300	1.21	1.85	2.71	3.32	26.55 27.51 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric						
Not Available						
Asymmetric	SLU	SLE	SL	SHW	SFL	Area Formula
	14.20	12.00	13.10	7.20	7.60	79.47 AS · (SFL + 4·SHW) / 6

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
0.10	0.69	1.15	1.92	2.67	3.57	10.40	19.66				Unknow	

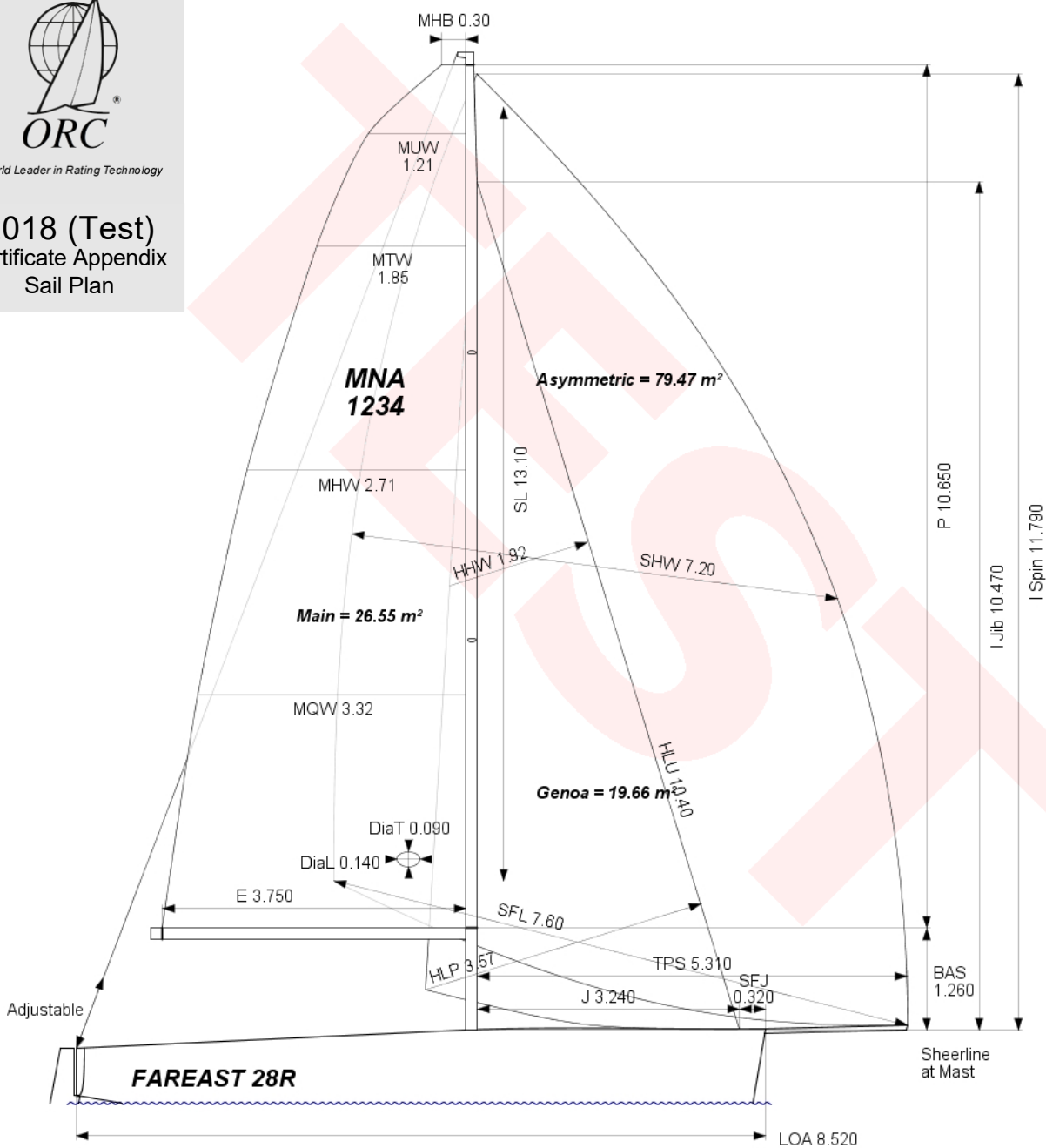
MEASUREMENT INVENTORY				
Measurer Grubisa CRO 7				
Date 24/04/2018				
Comment Izola				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
4	Chain			
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Misc	18.0	4.24	Outboard engine



World Leader in Rating Technology

2018 (Test)
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.300	1.21	1.85	2.71	3.32	26.55	class rule			Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10	0.69	1.15	1.92	2.67	3.57	10.40	110%	19.66			class rule			Unknown	

SYMMETRIC SPINNAKERS (0)

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

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	14.20	12.00	13.10	7.20	7.60	79.47	asym	class rule			Nylon	