

BOAT	GPH	HULL
Name Fareast 28R Sail Nr MNA 1234	595.5	Length Overall 8.520m Maximum Beam 2.788m Displacement 1.318kg Draft 1.712m IMS Reg. Division Sportboat Dynamic Allowance 0.058% Fwd Accommodation No Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL		IMSL 8.424m VCGD -0.093m Sink 11.64kg/mm RL 8.304m VCGM -0.080m WS 14.52m² LSMO 8.311m Displacement/Length ratio 2.2959
Class Fareast 28R Designer Simonis Voogd Builder Fareast Boats Series 02/2015 Age 02/2015 Age Allowance 0.130% Offset File fareast.od - 11/04/2019 22:26:09 Measurement by One Design - 29/11/2017		



2019 (Test)
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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	579.1			656.4		
Time on Time	1.0361			1.0284		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	676.1	531.6	461.0	869.4	664.4	569.6
Time on Time	0.9983	1.2697	1.4642	0.7764	1.0160	1.1850

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1012.4	821.5	752.3	732.8	725.8	713.6	717.3
52°	659.8	554.5	524.9	515.0	510.1	502.9	495.0
60°	622.1	537.8	506.4	492.6	485.1	478.0	464.5
75°	594.9	525.9	484.6	455.8	443.3	436.4	416.5
90°	595.2	522.2	484.6	441.1	409.9	395.9	382.4
110°	583.2	504.3	455.8	428.0	402.2	382.3	331.1
120°	596.7	511.5	451.8	408.1	382.1	361.7	317.5
135°	670.9	543.6	486.9	430.6	374.6	329.8	279.8
150°	796.4	626.8	538.5	490.7	440.0	388.1	291.3
Run VMG	919.6	723.8	622.9	566.6	508.1	448.1	336.4

Selected Courses							
Windward / Leeward	966.0	772.7	687.6	649.7	616.9	580.9	526.8
Circular Random	816.8	661.7	578.8	529.3	496.1	471.0	432.1
Coastal / Long Distance	961.4	728.0	620.6	557.6	514.0	473.1	406.5
Non Spinnaker	899.2	720.2	623.1	565.3	528.0	501.5	463.9

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°	41.8°	39.1°	38.9°	38.7°	38.3°	39.5°
Beat VMG	3.56	4.38	4.79	4.91	4.96	5.04	5.02
52°	5.46	6.49	6.86	6.99	7.06	7.16	7.27
60°	5.79	6.69	7.11	7.31	7.42	7.53	7.75
75°	6.05	6.85	7.43	7.90	8.12	8.25	8.64
90°	6.05	6.89	7.43	8.16	8.78	9.09	9.41
110°	6.17	7.14	7.90	8.41	8.95	9.42	10.87
120°	6.03	7.04	7.97	8.82	9.42	9.95	11.34
135°	5.37	6.62	7.39	8.36	9.61	10.92	12.87
150°	4.52	5.74	6.69	7.34	8.18	9.28	12.36
Run VMG	3.91	4.97	5.78	6.35	7.09	8.03	10.70
Gybe Angles	143.4°	145.9°	151.3°	149.0°	144.9°	145.0°	142.8°

Rating Office

Certificate
Number ORC Ref N/A Issued On 11/04/2019 VPP Ver. 2019 1.01 Invalid for Racing

Crew Weight
Default 529kg Maximum 425kg Minimum* 319kg <i>*when applied by the NoR and SI</i> Non Manual Pwr No

Special Scoring
ToD ToT Double H.GPH 614.8 0.9759 Double H.OSN 602.7 0.9955 Non Spin GPH 642.7 0.9336 Non Spin OSN 624.4 0.9610

Sails Limitations
Headsails 5 Spinnakers 3

Class Division Length
CDL = 8.365

Storm Sails Areas
Heavy Weather Jib 14.80 Storm Jib (JL=6.81) 5.49 Storm Trysail 6.99

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

BOAT		Sail Nr		MNA 1234		Inclining Test AND FREEBOARDS													
Name Fareast 28R		Data in		meters/kilograms		Inclining Test Club Estimated VCG													
File Fareast						Flotation date 24/04/2018 SG 1.0260													
RIG						FFM 0.904 FF 0.904 SFFP 0.426 FAM 0.677 FA 0.677 SAFF 8.520													
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						LCF from stem on CL / on sheer 4.777 / 4.999 Maximum beam station from stem 6.250 RM Measured 39.9kg·m RM Default 42.6kg·m Limit of positive stability / Stab.Index 110.0° / 102.8 Freeboard at mast at 3.560 0.899													
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 0.090 MDL2 0.090 MWT FSP 0.000 TPS 5.310 TL 1.440 MCG																			
MIZZEN RIG AND SAILS				PROPELLER															
N/A				Type No Propeller															
COMMENTS				MOVABLE BALLAST															
				N/A															
				CENTERBOARD															
				N/A															
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 on centerline	SLU	SLE	SL	SHW	SFL														
	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		1.15	1.92	2.67	3.57	10.40	19.48 Unknown												
MEASUREMENT INVENTORY				MEASUREMENT INVENTORY															
Measurer Grubisa CRO 7 Date 24/04/2018 Comment Izola				<table border="1"> <thead> <tr> <th>Id</th> <th>Item</th> <th>Weight</th> <th>Distance</th> <th>VCG</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Misc</td> <td>18.0</td> <td>4.24</td> <td></td> <td>Outboard engine</td> </tr> </tbody> </table>				Id	Item	Weight	Distance	VCG	Description	1	Misc	18.0	4.24		Outboard engine
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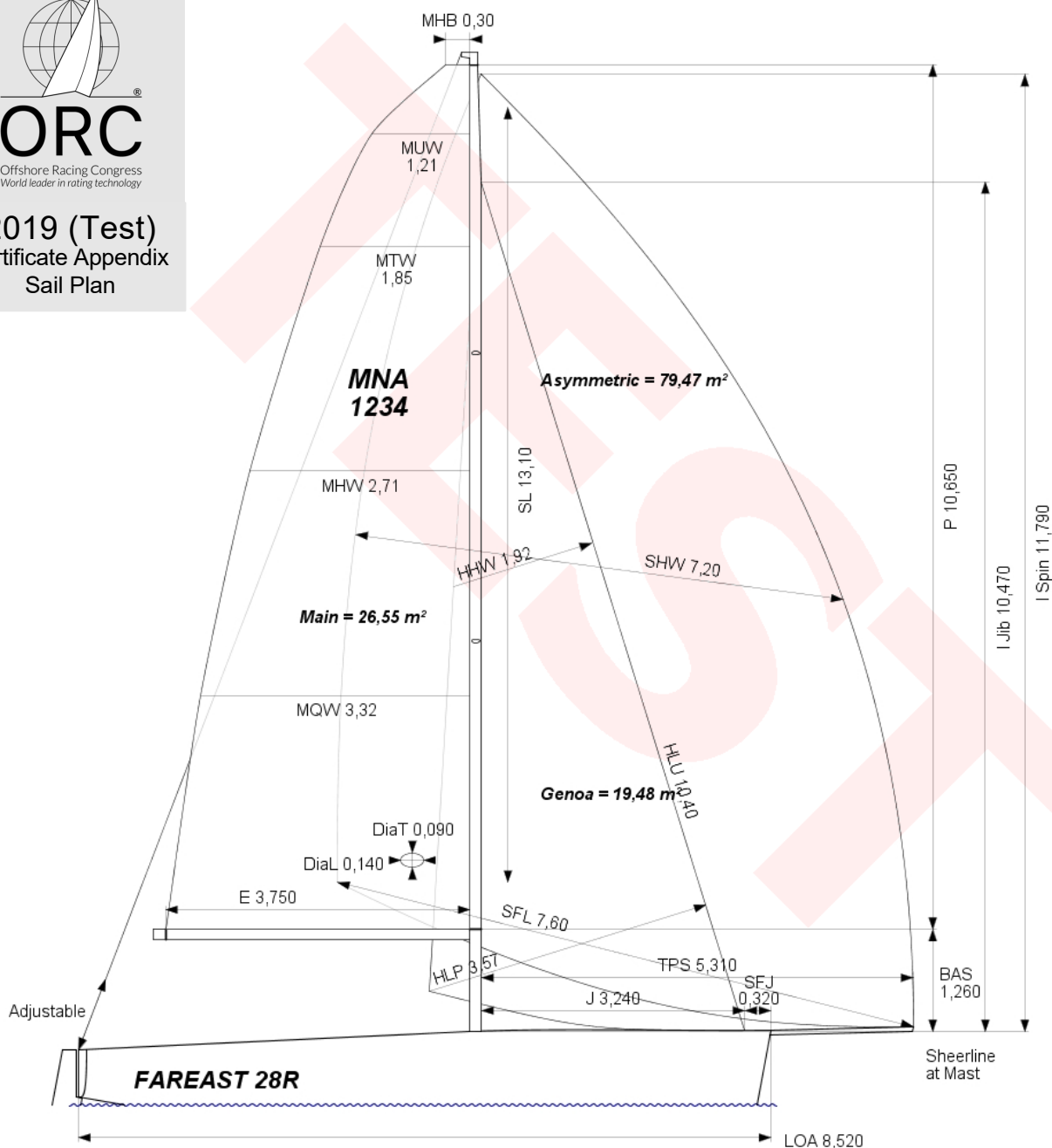
Number
ORC Ref **N/A**
Issued On **11/04/2019**
VPP Ver. **2019 1.01**
Invalid for Racing



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**2019 (Test)
Certificate Appendix
Sail Plan**



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.30	1.21	1.85	2.71	3.32	26.56	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		1.15	1.92	2.67	3.57	10.40	110%	19.48			class rule			Unknown	

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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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	79.48	asym	class rule			Nylon	