

BOAT Name FE 28R Enka Sail Nr SLO 1	GPH 595.7	HULL Length Overall 8.520m Maximum Beam 2.788m Displacement 1,318kg Draft 1.712m IMS Reg. Division Sportboat Dynamic Allowance 0.119% 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 fareast28r.off - 11/05/2018 07:40:26 Measurement by One Design - 29/11/2017		IMSL 8.424m VCGD -0.093m Sink 11.64kg/mm RL 8.444m VCGM -0.080m WS 14.52m² LSM0 8.311m Displacement/Length ratio 2.2959



World Leader in Rating Technology

2018
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



World Leader In Rating Technology

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	578.7			656.2		
Time on Time	1.0367			1.0286		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	679.3	531.2	458.6	873.8	663.6	567.5
Time on Time	0.9936	1.2708	1.4718	0.7725	1.0172	1.1895

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1020.1	825.8	748.5	726.7	718.0	706.1	705.8
52°	665.3	557.1	523.8	512.9	507.1	499.9	489.8
60°	627.4	539.9	506.1	490.2	481.7	475.1	459.9
75°	599.8	528.3	486.5	454.1	440.5	432.8	413.5
90°	596.3	520.3	486.5	444.2	409.3	393.5	378.9
110°	586.6	505.3	454.1	425.7	398.8	377.2	330.9
120°	601.5	513.2	453.6	406.4	379.4	356.4	316.7
135°	672.4	545.1	489.4	433.8	377.5	332.2	278.5
150°	799.0	629.5	540.5	494.0	443.6	391.7	296.3
Run VMG	922.5	726.9	625.0	570.5	512.3	452.3	342.1

Certificate

Number **IP03/8**
ORC Ref **SLO00003670**
Issued On **11/05/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default 529kg
Maximum **425kg**
Minimum* **319kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	609.1	0.9850
Double H.OSN	596.0	1.0066
Non Spin GPH	645.4	0.9297
Non Spin OSN	626.1	0.9583

Selected Courses							
Windward / Leeward	971.3	776.3	686.7	648.6	615.2	579.2	523.9
Circular Random	819.7	663.0	578.9	528.4	494.5	468.9	429.6
Coastal / Long Distance	966.5	731.2	620.4	556.6	512.0	470.5	404.3
Non Spinnaker	906.7	724.6	625.4	566.2	527.8	500.4	461.3

Sails Limitations

Headsails	Spinnakers
5	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	43.2°	41.8°	38.8°	38.4°	38.2°	37.8°	38.7°
Beat VMG	3.53	4.36	4.81	4.95	5.01	5.10	5.10
52°	5.41	6.46	6.87	7.02	7.10	7.20	7.35
60°	5.74	6.67	7.11	7.34	7.47	7.58	7.83
75°	6.00	6.81	7.40	7.93	8.17	8.32	8.71
90°	6.04	6.92	7.40	8.11	8.79	9.15	9.50
110°	6.14	7.12	7.93	8.46	9.03	9.54	10.88
120°	5.99	7.02	7.94	8.86	9.49	10.10	11.37
135°	5.35	6.60	7.36	8.30	9.54	10.84	12.93
150°	4.51	5.72	6.66	7.29	8.11	9.19	12.15
Run VMG	3.90	4.95	5.76	6.31	7.03	7.96	10.52
Gybe Angles	143.2°	145.7°	151.0°	149.0°	145.1°	144.9°	141.6°

Class Division Length

CDL = **8.435**

Storm Sails Areas


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

Owner

BOAT	
Name FE 28R Enka	Sail Nr SLO 1
File FE_SLO1	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 8.520	
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		4.777 / 4.999	
Maximum beam station from stem		6.250	
RM Measured		39.9kg·m	
RM Default		42.3kg·m	
Limit of positive stability / Stab.Index		110.0° / 102.8	
Freeboard at mast at 3.560		0.899	

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





World Leader in Rating Technology

2018

IMS Measurement Certificate

Certificate

Number **IP03/8**
 ORC Ref **SLO00003670**
 Issued On **11/05/2018**
 VPP Ver. **2018 1.00**
 Valid until **31/12/2018**

World Leader In Rating Technology

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	
Based on OD with Cleansport Sails	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.540	1.20	1.79	2.63	3.27	26.23	27.05	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	AS · (SFL + 4·SHW) / 6		
	13.96	11.76	12.86	7.04	7.30	76.00			

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	0.58	1.10	1.84	2.61	3.52	10.12	18.51			22/04/2018	Unknow	

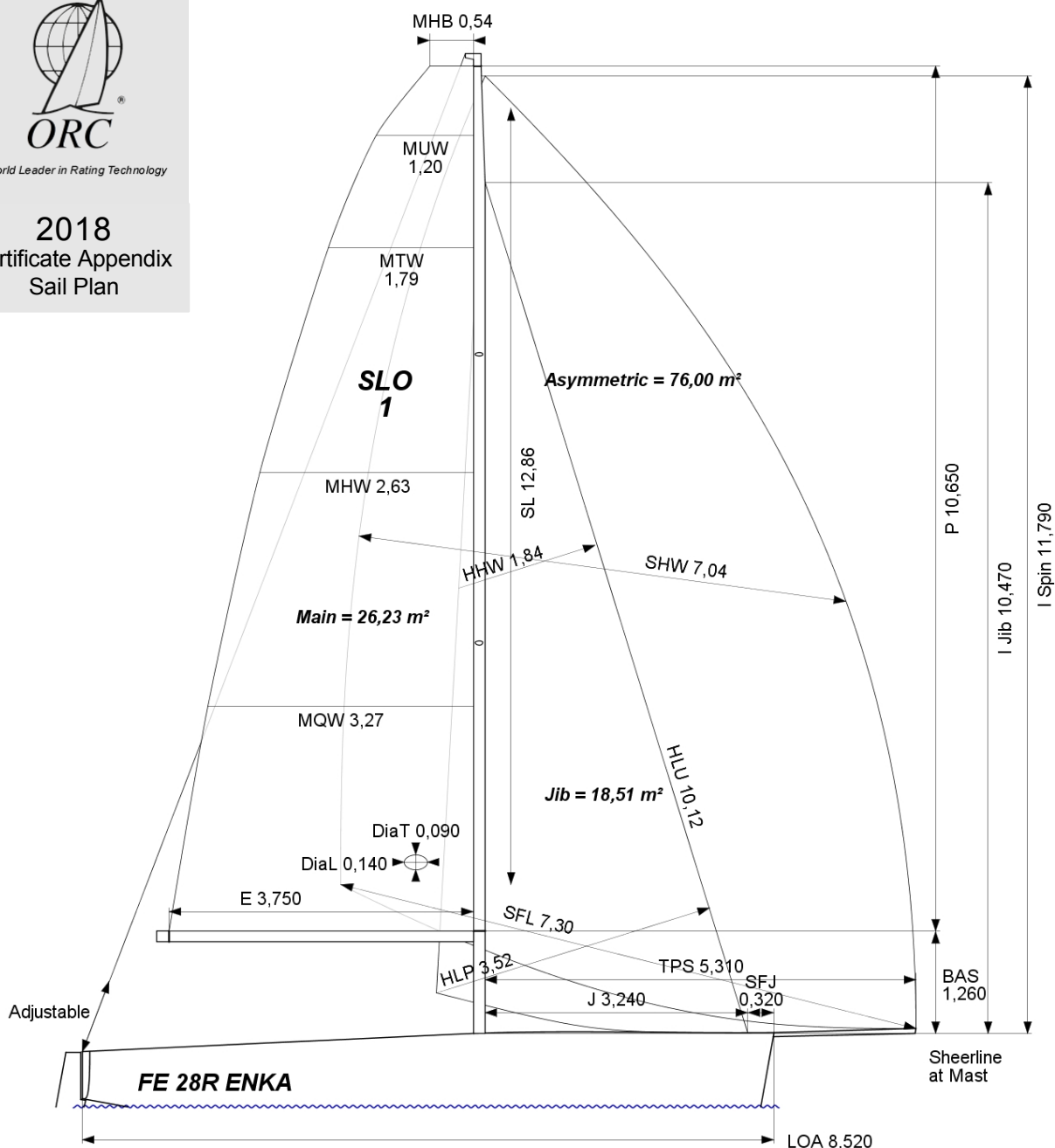
MEASUREMENT INVENTORY				
Measurer Grubisa CRO 7				
Date 24/04/2018				
Comment Izola				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
4	Chain			
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

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
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.540	1.20	1.79	2.63	3.27	26.23	Grubiša	22/04/2018	One Sails	Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.58	1.10	1.84	2.61	3.52	10.12	109%	18.51			Grubiša	22/04/2018	One Sails	Unknow	

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	13.96	11.76	12.86	7.04	7.30	76.00	asym	Grubiša	22/04/2018	One Sails	Nylon	