

BOAT Name RED DRAGON Sail Nr HUN-1721	GPH 595.5	HULL 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 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		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



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Rating Office
Hungarian Yachting Association
Istvanmezei ut 1-3
H-1146 Budapest
HUNGARY



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

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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	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

Selected Courses							
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
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

Sails Limitations

Headsails	5	Spinnakers	3
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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°

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
Szántó Mihály
HUNGARY

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

Signature

BOAT	
Name RED DRAGON	Sail Nr HUN-1721
File HUN1721	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
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	
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	



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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	

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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	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		1.15	1.92	2.67	3.57	10.40	19.48				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>		

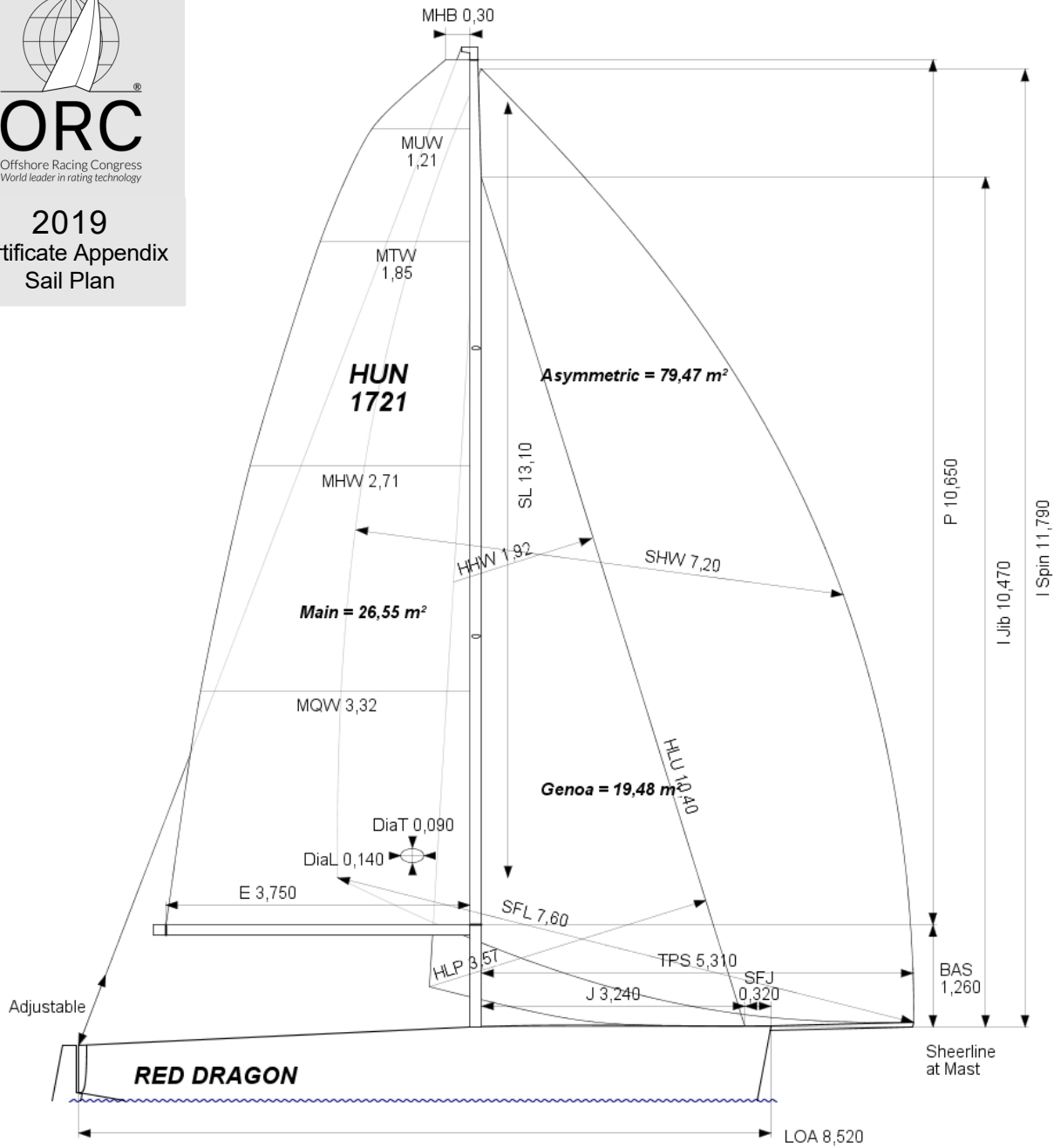
MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Misc	18.0	4.24	Outboard engine



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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	