

BOAT	GPH	HULL
Name RED DRAGON Sail Nr HUN-1721	593.7	Length Overall 8.520m Maximum Beam 2.788m Displacement 1,318kg Draft 1.712m Plan Review IMS Reg. Division Sportboat Dynamic Allowance 0.030% Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL		IMSL 8.420m VCGD -0.093m Sink 11.64kg/mm RL 8.183m 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 0.163% Offset File fareast.OD - 10/01/2020 00:00:00 Measurement by One Design - 29/11/2017		



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2020
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One Design

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



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	577.7			656.0		
Time on Time	1.0386			1.0289		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	673.2	530.3	459.9	866.1	664.5	570.0
Time on Time	1.0027	1.2728	1.4676	0.7794	1.0158	1.1843

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1009.9	820.4	755.9	738.1	732.6	720.7	725.7
52°	656.3	552.9	525.0	515.5	511.0	503.7	496.5
60°	618.0	535.9	505.3	492.1	485.0	477.4	464.6
75°	585.7	523.8	480.8	453.9	441.8	435.2	414.2
90°	591.7	522.1	480.8	435.3	406.5	393.5	380.8
110°	581.0	502.2	453.9	425.0	398.4	376.6	327.1
120°	594.1	509.4	447.9	405.4	379.8	354.9	313.5
135°	667.0	541.5	483.6	425.2	369.3	325.4	276.9
150°	792.0	623.1	536.0	487.1	434.0	382.5	285.1
Run VMG	914.5	719.5	620.2	562.5	501.1	441.7	329.2

Certificate
Number **015/20**
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VPP Ver. **2020 1.00**
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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
Non Spin GPH	645.8	0.9291
Non Spin OSN	626.4	0.9579

Selected Courses							
Windward / Leeward	962.2	770.0	688.1	650.3	616.9	581.2	527.5
Circular Random	813.3	659.4	577.1	527.9	494.9	470.0	431.6
Coastal / Long Distance	957.4	725.5	620.1	557.0	513.0	471.2	404.7
Non Spinnaker	903.3	723.4	626.0	568.2	530.7	504.0	465.4

Sails Limitations

Headsails	5	Spinnakers	4
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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	43.5°	42.0°	39.4°	39.4°	39.4°	39.0°	40.3°
Beat VMG	3.56	4.39	4.76	4.88	4.91	4.99	4.96
52°	5.49	6.51	6.86	6.98	7.04	7.15	7.25
60°	5.83	6.72	7.12	7.32	7.42	7.54	7.75
75°	6.15	6.87	7.49	7.93	8.15	8.27	8.69
90°	6.08	6.90	7.49	8.27	8.86	9.15	9.45
110°	6.20	7.17	7.93	8.47	9.04	9.56	11.01
120°	6.06	7.07	8.04	8.88	9.48	10.14	11.48
135°	5.40	6.65	7.44	8.47	9.75	11.06	13.00
150°	4.55	5.78	6.72	7.39	8.30	9.41	12.63
Run VMG	3.94	5.00	5.80	6.40	7.18	8.15	10.93
Gybe Angles	143.0°	146.0°	151.5°	149.0°	144.8°	145.0°	143.1°

Class Division Length
CDL = **8.289**

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		42.4kg·m	
Limit of positive stability / Stab.Index		110.4° / 103.2	
Freeboard at mast at 3.560		0.899	



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RIG				
Forestay Tension Aft	Runners/Checkstays 0		Spreaders 2	
Inner Stay None Fitted	Main Furler No		Jib Furler No	
Carbon Mast No	Fiber Rigging No		Non-Circular Rigging 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	
FSD 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
	0.30	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	Flying	Meas.Date	Material	Comment
0.10		1.15	1.92	2.74	3.57	10.40	19.64		No		Unknown	

MEASUREMENT INVENTORY				
Measurer Grubisa CRO 7				
Date 24/04/2018				
Comment Izola				
Internal Ballast total = 0.0				
<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

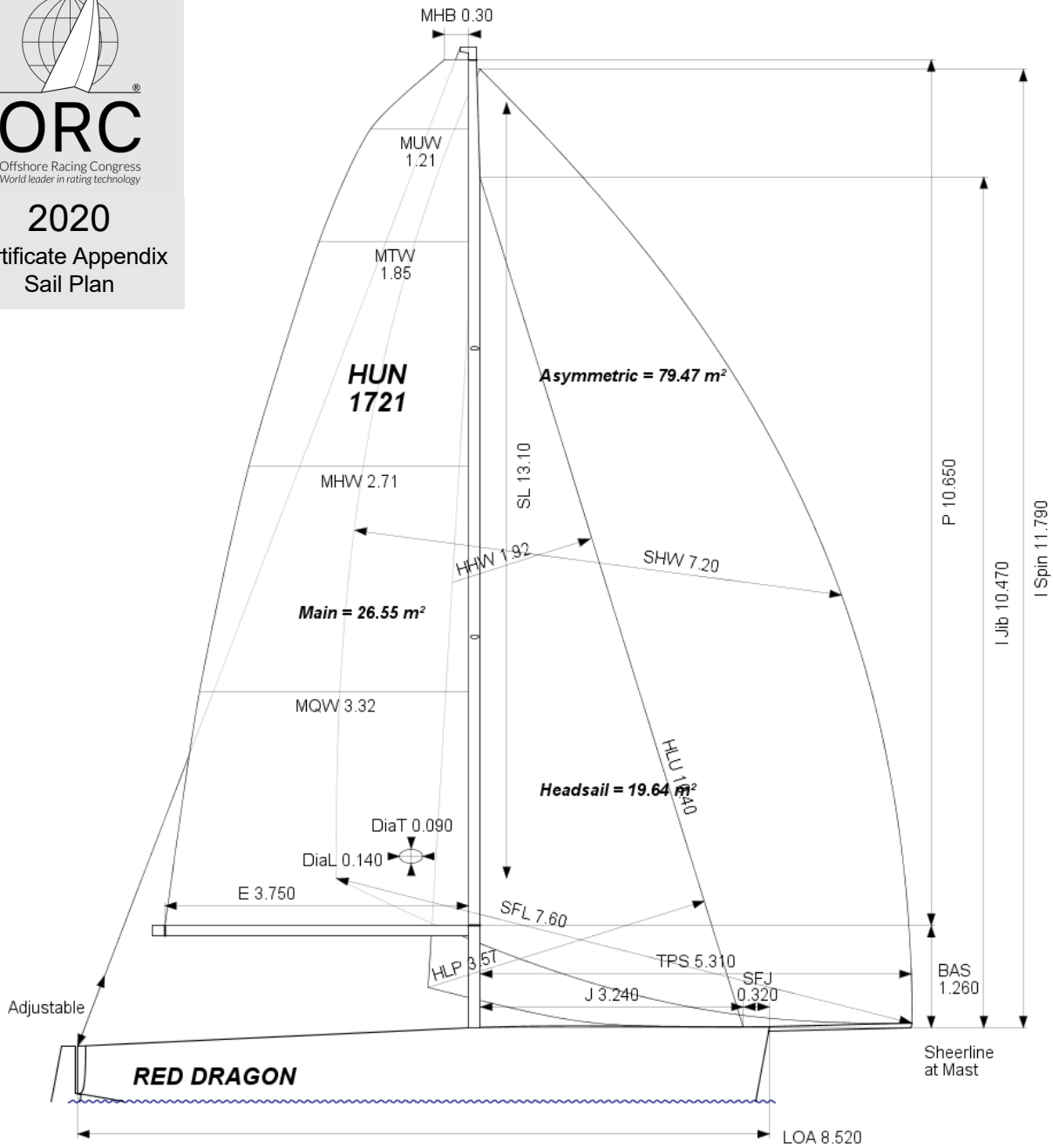


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Certificate Appendix
Sail Plan



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	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10		1.15	1.92	2.74	3.57	10.40	110%	19.64	No		class rule			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	14.20	12.00	13.10	7.20	7.60	79.48	asym	class rule			Nylon					