

BOAT Name AURORA Sail Nr GRE-5473	GPH 720.1	HULL Length Overall 7.318m Maximum Beam 2.692m Displacement 1,271kg Draft 1.224m Plan Review IMS Reg. Division Sportboat Dynamic Allowance 0.000% Hull Construction Solid Carbon Rudder No Crew Arm Extension IMSL 6.486m VCGD 0.048m Sink 8.52kg/mm RL 6.363m VCGM 0.075m WS 10.46m² LSM0 6.227m Displacement/Length ratio 5.2639
GENERAL Class J-24 Designer JOHNSTONE Builder J-BOATS Series 01/1977 Age Age Allowance 0.487% Offset File j24.OD - 10/01/2020 00:00:00 Measurement by - 16/04/2015		



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Rating Office
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Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time on Distance	699.5			781.0		
Time on Time	0.8578			0.8643		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	818.8	640.8	568.9	1055.2	783.2	693.8
Time on Time	0.8244	1.0534	1.1865	0.6397	0.8619	0.9729

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1188.5	994.8	890.9	837.1	822.6	820.2	843.0
52°	779.6	664.0	615.7	593.0	583.5	579.7	582.1
60°	733.1	635.4	599.7	577.1	562.3	555.5	553.7
75°	700.7	620.7	586.7	559.2	534.9	519.9	510.1
90°	706.3	620.4	578.2	544.5	525.2	501.3	470.3
110°	726.5	617.5	572.1	531.4	495.5	464.6	421.5
120°	749.2	629.0	580.6	540.7	503.9	466.7	386.6
135°	832.3	684.5	606.1	567.6	530.1	495.6	419.2
150°	984.9	780.4	663.3	600.7	565.5	531.0	466.4
Run VMG	1137.3	900.4	760.3	663.9	608.0	573.5	510.0

Certificate
Number **01280**
ORC Ref **03420000PNM**
Issued On **03/09/2020**
VPP Ver. **2020 1.00**
Valid until **28/02/2021**

Crew Weight
Default 350kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **751.0 0.7989**
Non Spin OSN **725.8 0.8267**

Selected Courses							
Windward / Leeward	1162.9	947.6	825.6	750.5	715.3	696.9	676.5
Circular Random	984.9	799.0	699.4	641.2	604.6	580.2	548.2
Coastal / Long Distance	1160.3	891.4	748.6	662.9	618.7	580.7	511.1
Non Spinnaker	1036.8	836.3	728.5	665.8	627.2	602.2	570.9

Sails Limitations
Headsails **5** Spinnakers **4**

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	43.1°	42.0°	40.9°	39.4°	39.0°	39.0°	40.9°
Beat VMG	3.03	3.62	4.04	4.30	4.38	4.39	4.27
52°	4.62	5.42	5.85	6.07	6.17	6.21	6.18
60°	4.91	5.67	6.00	6.24	6.40	6.48	6.50
75°	5.14	5.80	6.14	6.44	6.73	6.92	7.06
90°	5.10	5.80	6.23	6.61	6.85	7.18	7.66
110°	4.96	5.83	6.29	6.77	7.27	7.75	8.54
120°	4.81	5.72	6.20	6.66	7.14	7.71	9.31
135°	4.33	5.26	5.94	6.34	6.79	7.26	8.59
150°	3.66	4.61	5.43	5.99	6.37	6.78	7.72
Run VMG	3.17	4.00	4.74	5.42	5.92	6.28	7.06
Gybe Angles	148.0°	152.0°	154.0°	173.0°	180.0°	180.0°	180.0°

Class Division Length
CDL = **6.421**

Storm Sails Areas
Heavy Weather Jib **9.08**
Storm Jib (JL=5.33) **3.37**
Storm Trysail **4.44**

Owner

BOAT	
Name AURORA	Sail Nr GRE-5473
File GR5473	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 16/04/2015	SG 1.0250	
FFM 0.808	FF 0.808	SFFP 0.286
FAM 0.699	FA 0.699	SAFP 7.317
W1 20.0	PD1 332.0	WD 5.680
W2 20.0	PD2 330.0	GSA 1.0
W3 20.0	PD3 331.0	RSA 1.0
W4 20.0	PD4 332.0	PLM 9000.0
LCF from stem on CL / on sheer		4.086 / 4.291
Maximum beam station from stem		4.355
RM Measured		27.0kg·m
RM Default		27.5kg·m
Limit of positive stability / Stab.Index		103.3° / 95.3
Freeboard at mast at 2.900		0.736

RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 8.538	E 2.970 MDT1 0.087 MW 0.124
IG 8.125	J 2.900 MDL1 0.124 GO 0.150
ISP 8.210	SFJ MDT2 0.087 BD 0.085
BAS 1.080	SPL 2.895 MDL2 0.124 MWT
FSD	TPS TL 0.000 MCG



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IMS Measurement
Certificate

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
	0.15	0.70	1.18	1.98	2.60	15.66 16.03 $P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$
Symmetric	SLU	SLE	SL	SHW	SFL	
	8.13	8.13	8.13	5.22	5.20	35.34 $SL \cdot (SFL + 4 \cdot SHW) / 6$
Asymmetric						
Not Available						

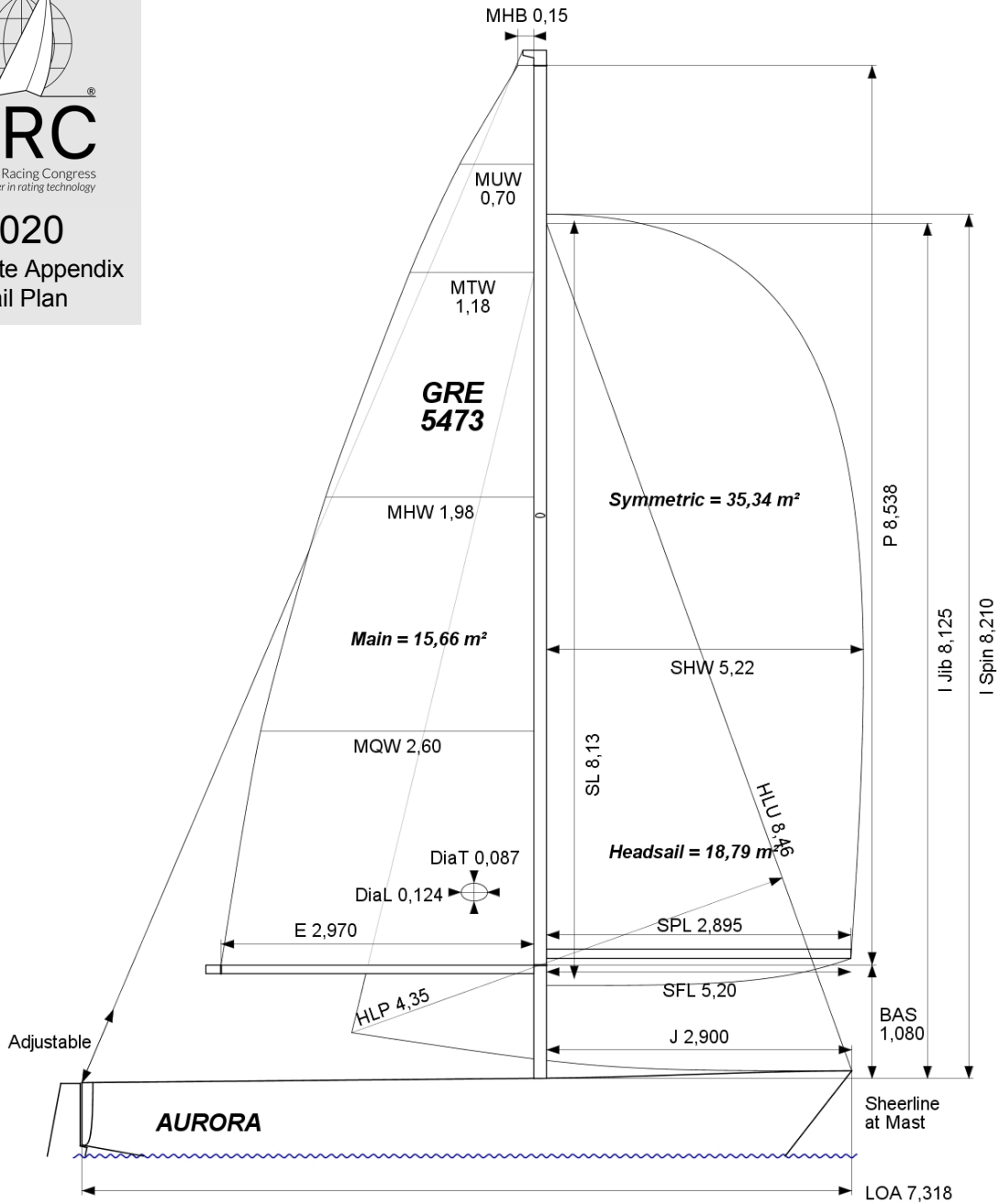
HEADSAILS												
Area = $0.1125 \cdot HLU \cdot (1.445 \cdot HLP + 2 \cdot HQW + 2 \cdot HHW + 1.5 \cdot HTW + HUW + 0.5 \cdot HHB)$												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.10					4.35	8.46	18.79		No			Class rules



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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					
ORC	0.15	0.70	1.18	1.98	2.60	15.67					Class rules					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.10					4.35	8.46	150%	18.79	No						Class rules
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	8.13	8.13	8.13	5.22	5.20	35.34					Class rules					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				