

BOAT Name J 70 Sail Nr AUT 1315	GPH 674,8	HULL Length Overall 6,910m Maximum Beam 2,254m Displacement 811kg Draft 1,382m IMS Reg. Division Sportboat Dynamic Allowance 0,111% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension 0,50
GENERAL Class J-70 ONE DESIGN Designer JOHNSTONE Builder J BOATS Series 02.2012 Age 12.2017 Age Allowance 0,195% Offset File j70.OD - 19.01.2018 10:42:10 Measurement by - 01.02.2013		IMSL 6,700m VCGD -0,184m Sink 7,58kg/mm RL 7,039m VCGM -0,194m WS 9,18m² LSMO 6,181m Displacement/Length ratio 3,4344



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2018
ORC International
One Design Certificate

Rating Office
Austrian Sailing Federation
Seestraße 17B
7100 Neusiedl am See
Austria



AUSTRIAN SAILING FEDERATION
ORC Rating Office

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	653,9			743,7		
Time on Time	0,9176			0,9077		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	776,5	600,7	510,7	1001,0	749,3	639,0
Time on Time	0,8693	1,1237	1,3216	0,6743	0,9009	1,0563

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1190,8	976,6	859,3	795,9	776,9	774,1	779,6
52°	781,2	650,8	600,3	570,6	552,8	546,7	543,1
60°	738,3	626,5	585,3	551,8	525,7	516,2	512,6
75°	705,4	606,8	570,0	533,3	494,4	469,1	454,5
90°	662,5	578,6	532,6	508,9	484,7	449,6	399,0
110°	652,8	571,3	511,4	460,1	430,4	406,6	359,4
120°	672,6	580,8	523,4	464,3	410,9	377,1	326,0
135°	752,2	615,9	557,7	504,8	450,2	399,8	284,2
150°	886,7	704,1	611,6	565,5	520,6	468,8	341,6
Run VMG	1023,8	813,0	706,2	653,0	601,1	541,4	394,5

Certificate
Number **048/18**
ORC Ref **AUT00002347**
Issued On **17.08.2018**
VPP Ver. **2018 1.00**
Valid until **31.12.2018**

Crew Weight
Default **347kg**
Maximum **340kg**
Minimum* **255kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	688,5	0,8715
Double H.OSN	671,9	0,8930
Non Spin GPH	729,5	0,8225
Non Spin OSN	701,6	0,8551

Selected Courses							
Windward / Leeward	1107,3	894,8	782,8	724,4	689,0	657,7	587,0
Circular Random	933,0	753,7	655,8	595,9	554,7	522,9	471,3
Coastal / Long Distance	1099,0	840,3	707,0	624,8	571,9	525,4	441,0
Non Spinnaker	1027,8	820,6	706,9	638,4	594,0	562,9	519,0

Sails Limitations

Headsails	5	Spinnakers	3
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Dacron Sails

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	42,7°	42,0°	40,1°	37,8°	36,9°	37,1°	38,2°
Beat VMG	3,02	3,69	4,19	4,52	4,63	4,65	4,62
52°	4,61	5,53	6,00	6,31	6,51	6,59	6,63
60°	4,88	5,75	6,15	6,52	6,85	6,97	7,02
75°	5,10	5,93	6,32	6,75	7,28	7,67	7,92
90°	5,43	6,22	6,76	7,07	7,43	8,01	9,02
110°	5,51	6,30	7,04	7,82	8,36	8,85	10,02
120°	5,35	6,20	6,88	7,75	8,76	9,55	11,04
135°	4,79	5,84	6,46	7,13	8,00	9,01	12,67
150°	4,06	5,11	5,89	6,37	6,92	7,68	10,54
Run VMG	3,52	4,43	5,10	5,51	5,99	6,65	9,13
Gybe Angles	144,9°	147,5°	149,8°	148,5°	145,3°	143,5°	137,1°

Class Division Length
CDL = **6,870**

Storm Sails Areas

Heavy Weather Jib	8,79
Storm Jib (JL=5,24)	3,26
Storm Trysail	4,02

Owner
Hofmaninger Julian
Almweg 25
4652 Steinerkirchen an der Traun
Austria

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

Signature

BOAT	
Name J 70	Sail Nr AUT 1315
File Quantum	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Enter RM directly			
Flotation date 01.02.2016		SG 1,0200	
		RMCe 21,6	
FFM 0,790	FF 0,792	SFFP 0,155	
FAM 0,570	FA 0,571	SAFP 6,903	
LCF from stem on CL / on sheer		3,697 / 3,856	
Maximum beam station from stem		4,358	
RM Measured		21,6kg·m	
RM Default		19,9kg·m	
Limit of positive stability / Stab.Index		112,3° / 103,6	
Freeboard at mast at 2,500		0,674	

RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 7,970	E 2,880	MDT1 0,080	MW 0,116
IG 8,000	J 2,340	MDL1 0,116	GO 0,136
ISP 9,290	SFJ 0,160	MDT2 0,070	BD 0,095
BAS 0,992	SPL 0,000	MDL2 0,070	MWT 24,00
FSP 0,060	TPS 3,890	TL 1,000	MCG 3,880


MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	
weight acc to OD class rules incl outboard engine, 4 crew	

MOVABLE BALLAST	
N/A	


CENTERBOARD	
N/A	



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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,364	0,88	1,43	2,13	2,57	15,43	15,99	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	10,80	8,80	9,80	5,56	5,70	45,64	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
0,06		0,65	1,25	1,86	2,45	8,00	10,01	Y				CLASS

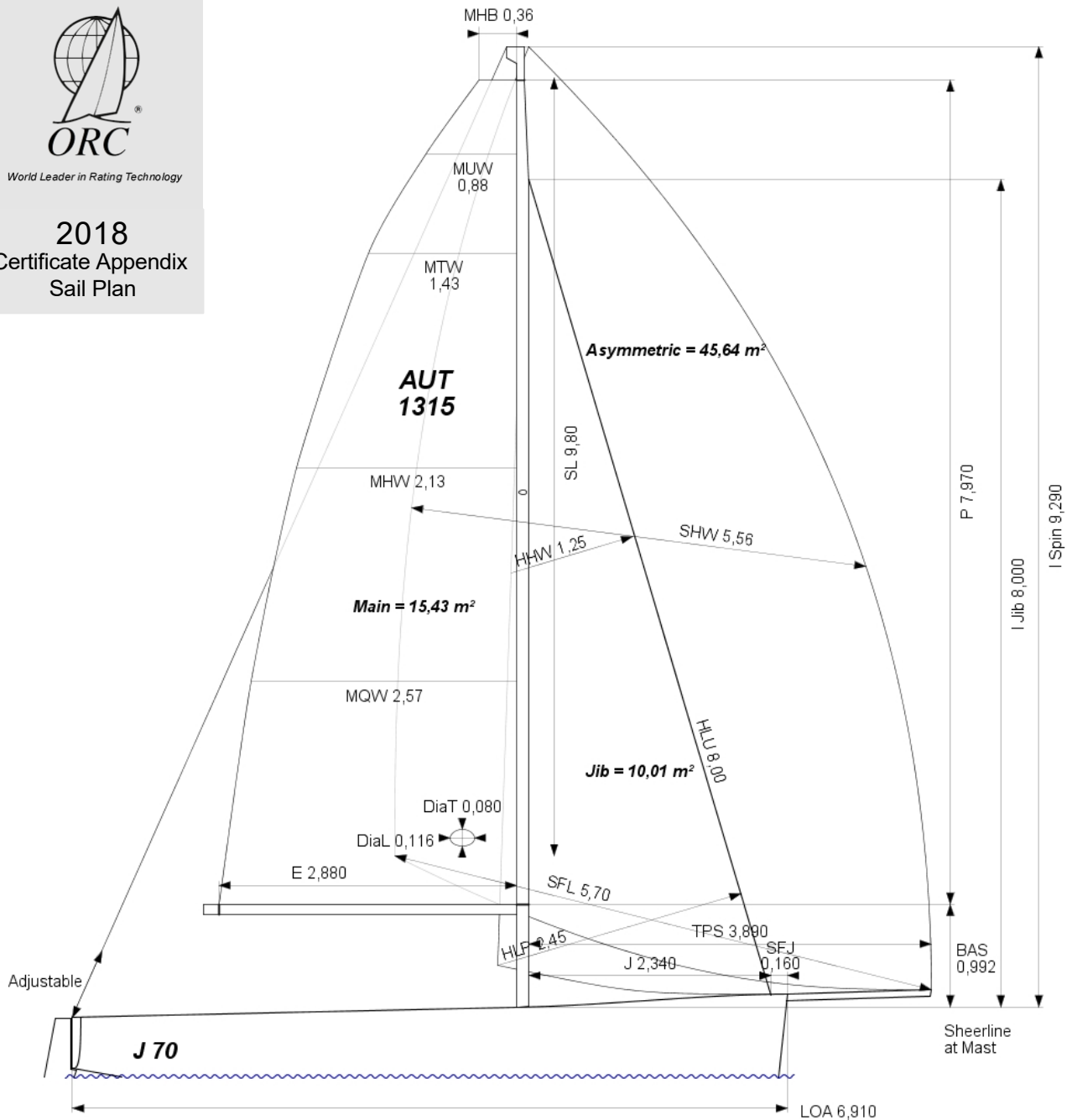
MEASUREMENT INVENTORY				
Measurer Class rules weight				
Date 01.02.2016				
Comment				
Id	Item	Weight	Distance	VCG Description
+	Ancher	7,0	3,40	0,00 Class rule 5kg
	Tools			0,00
Id	Item	Maker	Model	
E	Engine		OUTBOARD	
Id	Item	Weight Description		

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description



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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	0,364	0,88	1,43	2,13	2,57	15,43	CLASS				CLASS					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,06		0,65	1,25	1,86	2,45	8,00	105%	10,01	Y		CLASS				CLASS
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				
ORC	10,80	8,80	9,80	5,56	5,70	45,64	asym	CLASS				CLASS				