

BOAT Name JÄÄLIND Sail Nr EST990 File EST990 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 02/07/2020 SG 1.0240 VCGDe -0.150		 ORC Offshore Racing Congress World leader in rating technology 2020 Measurements Datasheet
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners/Checkstays 1 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No		FFM 0.928 FF 0.928 SFFP 0.303 FAM 0.835 FA 0.835 SAFB 9.175 LCF from stem on CL / on sheer 5.306 / 5.474 Maximum beam station from stem 6.027 RM Measured 66.1kg·m RM Default 63.5kg·m Limit of positive stability / Stab.Index 119.6° / 118.0 Freeboard at mast at 3.435 0.913		
P 12.500 E 4.500 MDT1 0.090 MW 0.136 IG 11.325 J 3.435 MDL1 0.136 GO 0.136 ISP 11.325 SFJ 0.000 MDT2 0.060 BD 0.140 BAS 1.660 SPL 3.450 MDL2 0.080 MWT 77.60 FSD 0.000 TPS 3.960 TL 2.100 MCG 3.950				
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.356 Type Folding 2 blades PBW 0.090 Twin Screw No PIPA 0.0035 ST1 0.065 ST3 0.180 ST5 0.256 ST2 0.180 ST4 0.110 EDL 1.075		
COMMENTS Boat weight owner declaration		MOVABLE BALLAST N/A		Certificate Number 092/20 ORC Ref 03880000LS1 Issued On 02/07/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020  ESTONIAN YACHTING UNION
		CENTERBOARD N/A		

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.14	0.89	1.63	2.78	3.72	32.67				Unknown	OD					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.41	0.76	1.48	2.32	3.23	11.14	94%	17.36		No				Unknown	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.04	11.04	11.04	8.29	6.29	72.59				Unknown						
2	11.20	11.20	11.20	6.60	6.15	60.76				Unknown						
3	11.07	11.07	11.07	5.58	6.07	52.38				Unknown						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	11.50	9.92	10.71	5.72	5.72	51.06	asym				Unknown					

MEASUREMENT INVENTORY					MEASUREMENT INVENTORY								
Measurer Date Comment Internal Ballast total = 0.0					Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description
Id	Item	Weight	Distance	VCG Description	1	Tank	Water	PVC	200.0				
Id	Item	Maker	Model		2	Tank	Fuel	Stainless steel	20.0				
1	Engine		BUKH DV		3	Tank	Septic	Stainless steel	20.0				
Id	Item	Weight	Distance	VCG Description	Id	Item	Weight	Distance	VCG Description				
					1	Battery	90.0		3x30kg				
					1	Misc	6.6		Automatic Cable Reel				

2020

ORC Club Certificate Appendix

BOAT			
Name	JÄÄLIND	Certificate Number	092/20
Sail Nr	EST990	Issued On	02/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1076.6	887.5	783.8	742.5	728.7	723.7	711.8
52°	705.1	594.2	543.9	525.2	518.1	514.6	507.3
60°	666.7	569.5	530.0	511.9	502.4	497.7	491.6
75°	640.0	552.7	519.3	498.1	481.4	469.6	460.6
90°	629.8	537.4	504.2	482.7	470.3	453.9	428.0
110°	624.7	531.4	494.9	465.3	442.8	420.7	394.9
120°	646.4	540.4	500.5	467.9	437.1	411.9	368.5
135°	725.2	586.4	522.5	490.0	458.2	427.6	362.5
150°	879.7	696.0	581.5	522.1	491.8	462.2	405.7
Run VMG	1015.8	803.7	671.5	589.3	536.6	503.8	448.7
Selected Courses							
Windward / Leeward	1046.2	845.6	727.6	665.9	632.6	613.7	580.2
Circular Random	875.2	707.3	617.7	565.9	533.6	511.6	479.9
Coastal / Long Distance	1043.1	793.6	658.0	584.7	546.2	514.5	457.3
Non Spinnaker	943.8	755.1	653.1	593.7	557.0	532.7	500.4

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	42.4°	41.3°	39.8°	38.6°	38.3°	38.3°	38.3°
Beat VMG	3.34	4.06	4.59	4.85	4.94	4.97	5.06
52°	5.11	6.06	6.62	6.85	6.95	7.00	7.10
60°	5.40	6.32	6.79	7.03	7.17	7.23	7.32
75°	5.62	6.51	6.93	7.23	7.48	7.67	7.82
90°	5.72	6.70	7.14	7.46	7.65	7.93	8.41
110°	5.76	6.77	7.27	7.74	8.13	8.56	9.12
120°	5.57	6.66	7.19	7.69	8.24	8.74	9.77
135°	4.96	6.14	6.89	7.35	7.86	8.42	9.93
150°	4.09	5.17	6.19	6.89	7.32	7.79	8.87
Run VMG	3.54	4.48	5.36	6.11	6.71	7.15	8.02
Gybe Angles	144.5°	149.0°	149.5°	158.5°	180.0°	180.0°	180.0°