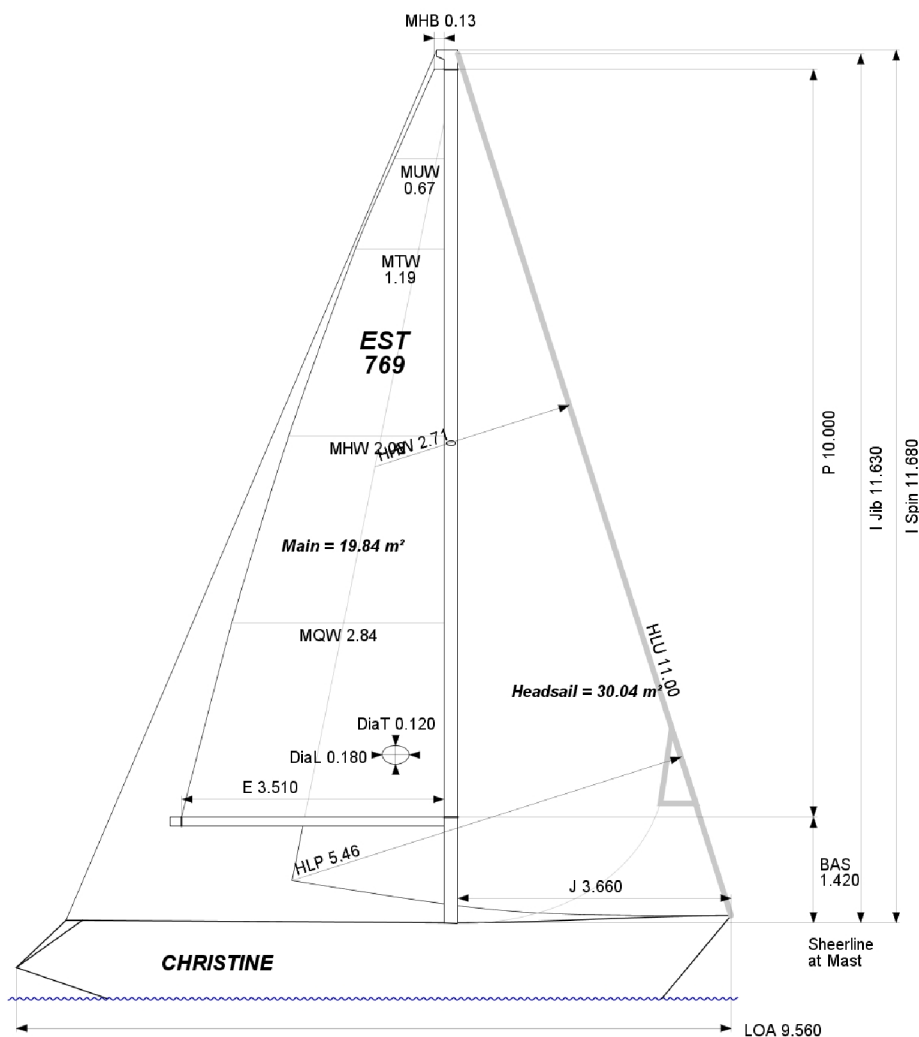




BOAT		GPH	HULL	
Name	Christine	788.1	Data File	EST 769
Sail Nr	EST769		LOA	9.560m
CLASS			Offset File	H&R31CL.OFF
Class	HALLBERG RASSY 31		Displacement	4,196kg
Designer			MB	3.308m
Builder	Hallberg- Rassy		Draft	1.676m
Series	01/1978		IMS Division	Cruiser/Racer
Age Date	01/1978		Dynamic All.	0.639%
Age Allowance	0.487%		Plan Review	Construction Solid
COMMENTS			Fiber Rigging	No
			Crew Arm Ex	Aramid Core No
				Carbon Rudder No
				Light Stanchions No
			IMSL	7.204m
			VCGD	-0.100m
			Sink	12.83kg/mm
			RL	5.371m
			VCGM	0.015m
			WS	17.78m²
			LSM0	7.349m
			Displacement/Length ratio	
			Water Ballast	Trim Tab No
			BLR Index	0.0000
PROPELLER			CENTERBOARD	
Installation	In Aperture	PRD 0.420	N/A	
Type	Solid 3 blades	PBW 0.130		
		PIPA 0.0086		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	761.8			849.0		
Time on Time	0.7876			0.7950		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	925.3	693.4	604.8	1196.6	859.7	723.9
Time on Time	0.7295	0.9735	1.1161	0.5641	0.7852	0.9325



Rating Office
Estonian Yachting Union
 Purje 8, maja 3
 11911 Tallinn
 Estonia



Certificate
 Number 058/20
 Issued On 11/06/2020
 ORC Ref 03880000KHR
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 444kg
 Maximum 444kg
 Minimum* 333kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 788.1 0.7613
 Non Spin OSN 761.8 0.7876

Sails Limitations
 Headsails 1 Spinnakers 0
 Woven Polyester

Spinnaker configuration
 Symmetric: No
 Asymmetric: No
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 6.286

Stability (Estimated)
 Limit Positive Stab.: 118.5°
 Stability Index: 117.0

BOAT			
Name	Christine	Sail Nr	EST769
File	EST 769	Data in	meters/kilograms

RIG							
Forestay Tension	Fixed				Spreaders	1	
Inner Stay	None Fitted			Runners/Checkstays	0		
Carbon Mast	No			Jib Furler	Yes		
Fiber Rigging	No			Main Furler	No		
Non-Circular Rigging	No						
Articulated Bowsprit	No						
P	10.000	E	3.510	MDT1	0.120	MW	1.200
IG	11.630	J	3.660	MDL1	0.180	GO	
ISP	11.680	SFJ		MDT2		BD	
BAS	1.420	SPL	4.520	MDL2		MWT	
FSD		TPS		TL	-3.000	MCG	

INCLINING TEST AND FREEBOARDS				
Inclining Test Enter VCG directly				
Flotation date	11/06/2020		SG	1.0225
VCGDe		-0.100		
FFM	1.103	FF	1.104	SFFP 0.532
FAM	1.049	FA	1.050	SAFP 8.677
LCF from stem on CL / on sheer				4.818 / 5.048
Maximum beam station from stem				5.295
RM Measured				70.0kg·m
RM Default				67.5kg·m
Limit of positive stability / Stab.Index				118.5° / 117.0
Freeboard at mast at 3.660				1.010

MIZZEN RIG AND SAILS	
	N/A

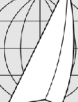
PROPELLER			
Installation	In Aperture	PRD	0.420
Type	Solid 3 blades	PBW	0.130
Twin Screw		PIPA	0.0086
APH	APT	APB	

COMMENTS	

MOVABLE BALLAST	
	N/A

CENTERBOARD

N/A



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2020
Measurements
Datasheet

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EJL
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YACHTING
UNION

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.67	1.19	2.08	2.84	19.84										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.73	1.40	2.71	4.05	5.46	11.00	149%	30.04		No					
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT			
Name	Christine	Certificate Number	058/20
Sail Nr	EST769	Issued On	11/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1339.3	1122.2	999.4	911.2	862.6	845.6	852.4
52°	864.8	734.5	653.1	609.8	589.0	579.7	577.8
60°	813.7	690.9	621.7	589.9	572.5	562.3	557.0
75°	778.1	658.2	600.7	574.5	557.4	543.9	526.2
90°	785.3	663.7	598.8	567.0	544.8	525.9	500.5
110°	827.6	688.9	607.6	571.9	549.4	529.5	494.5
120°	877.7	729.3	631.4	583.3	557.7	537.0	499.4
135°	991.4	801.1	688.1	613.2	576.2	553.2	514.1
150°	1142.5	892.2	758.0	663.5	603.2	571.5	530.6
Run VMG	1313.9	1011.0	842.5	734.7	653.5	601.2	550.7
Selected Courses							
Windward / Leeward	1326.6	1066.6	921.0	823.0	758.0	723.4	701.6
Circular Random	1103.7	884.4	763.9	691.9	647.2	618.8	587.3
Coastal / Long Distance	1325.3	1002.1	827.5	715.8	653.7	613.7	557.6
Non Spinnaker	1103.7	884.4	763.9	691.9	647.2	618.8	587.3

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	44.3°	42.4°	43.1°	42.8°	41.6°	41.6°	42.4°
Beat VMG	2.69	3.21	3.60	3.95	4.17	4.26	4.22
52°	4.16	4.90	5.51	5.90	6.11	6.21	6.23
60°	4.42	5.21	5.79	6.10	6.29	6.40	6.46
75°	4.63	5.47	5.99	6.27	6.46	6.62	6.84
90°	4.58	5.42	6.01	6.35	6.61	6.85	7.19
110°	4.35	5.23	5.92	6.30	6.55	6.80	7.28
120°	4.10	4.94	5.70	6.17	6.46	6.70	7.21
135°	3.63	4.49	5.23	5.87	6.25	6.51	7.00
150°	3.15	4.03	4.75	5.43	5.97	6.30	6.78
Run VMG	2.74	3.56	4.27	4.90	5.51	5.99	6.54
Gybe Angles	157.0°	166.0°	172.0°	173.0°	174.0°	178.0°	179.0°