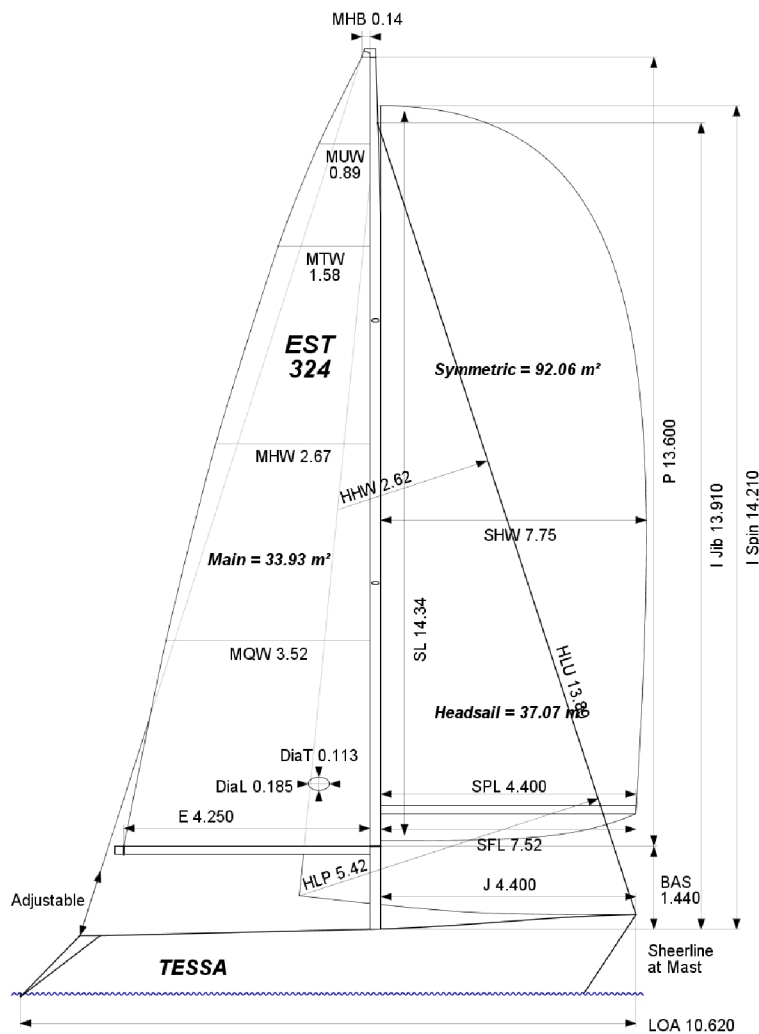




BOAT		GPH	HULL	
Name	TESSA	648.3	Data File	EST324
Sail Nr	EST 324		LOA	10.620m
CLASS			Offset File	EST220.BOF
Class	Ridas 35		Displacement	6,241kg
Designer	Lönngrén/Ridas		MB	3.624m
Builder	Ridas Jaht		Draft	2.035m
Series	06/1997		IMS Division	Cruiser/Racer
Age Date	04/2002		Plan Review	Dynamic All. 0.266%
Age Allowance	0.487%		Fiber Rigging	No
COMMENTS			Crew Arm Ex	Construction Solid
PROPELLER			Light Stanchions	Yes
Installation	Strut	PRD 0.410	IMSL	9.548m
Type	Folding 2 blades	PIPA 0.0007	VCGD	0.000m
CENTERBOARD			Sink	19.90kg/mm
			RL	8.149m
			VCGM	-0.043m
			WS	26.38m²
			LSM0	9.650m
			Displacement/Length ratio	6.9450
			Water Ballast	Trim Tab No
			BLR Index	0.0000
			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	628.8			697.0		
Time on Time	0.9543			0.9684		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	745.6	573.6	510.7	960.6	702.8	603.8
Time on Time	0.9053	1.1768	1.3218	0.7027	0.9604	1.1179

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

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

ESTONIAN
YACHTING
UNION

Certificate
Number 142/20
Issued On 09/08/2020
ORC Ref 0388000006K
VPP Ver. 2020 1.02
Valid until 31/12/2020

Crew Weight
Default 654kg
Maximum 660kg
Minimum* 495kg
*when applied by the NoR and SI
Non Manual Pwr No

Special Scoring
ToD ToT
Non Spin GPH 681.3 0.8807
Non Spin OSN 659.2 0.9102

Sails Limitations
Headsails 5 Spinnakers 4

Spinnaker configuration
Symmetric: Yes 92.06
Asymmetric: No
Flying H/S: No
Spin. Pole: Yes

Class Division Length
CDL = 8.844

Stability (Estimated)
Limit Positive Stab.: 115.8°
Stability Index: 118.2

BOAT										INCLINING TEST AND FREEBOARDS									
Name TESSA					Sail Nr EST 324					Inclining Test Enter VCG directly									
File EST324					Data in meters/kilograms					Flotation date 09/08/2020 SG 1.0244									
										VCGDe 0.000									
RIG Forestay Tension Aft Spreaders 2 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										FFM 1.345 FF 1.345 SFFP 0.550 FAM 0.825 FA 0.825 SAFB 9.246 LCF from stem on CL / on sheer 6.166 / 6.433 Maximum beam station from stem 6.694 RM Measured 141.7kg·m RM Default 127.0kg·m Limit of positive stability / Stab.Index 115.8° / 118.2 Freeboard at mast at 4.400 1.105									
P 13.600 E 4.250 MDT1 0.113 MW 0.000 IG 13.910 J 4.400 MDL1 0.185 GO 0.000 ISP 14.210 SFJ 0.000 MDT2 0.000 BD BAS 1.440 SPL 4.400 MDL2 0.000 MWT FSD -3.000 TPS TL -2.000 MCG																			
MIZZEN RIG AND SAILS										PROPELLER									
N/A										Installation Strut PRD 0.410 Type Folding 2 blades PBW Twin Screw No PIPA 0.0007									
										ST1 ST3 ST5 ST2 ST4 EDL									
COMMENTS										MOVABLE BALLAST									
										N/A									
CENTERBOARD										 ESTONIAN YACHTING UNION									
N/A																			
SAILS INVENTORY																			
MAINSAIL (1)																			
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
2	0.14	0.89	1.58	2.67	3.52	33.94				Unknown									
HEADSAILS (3)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
2	0.08	0.69	1.32	2.62	3.97	5.42	13.89	123%	37.07	No					Unknown				
3	0.07	0.84	1.52	2.61	3.48	5.47	13.82	124%	36.13	No					Unknown				
1	0.07	0.64	1.24	2.50	3.95	5.48	13.03	125%	34.23	No					Unknown				
SYMMETRIC SPINNAKERS (3)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
1	14.34	14.34	14.34	7.75	7.52	92.07													
2	13.71	13.71	13.71	7.60	7.24	86.01				Unknown									
3	13.76	13.76	13.76	7.56	7.24	85.96				Unknown									
ASYMMETRIC SPINNAKERS (0)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment							

2020

ORC Club Certificate Appendix

BOAT			
Name	TESSA	Certificate Number	142/20
Sail Nr	EST 324	Issued On	09/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1095.5	911.6	803.9	739.7	712.5	700.4	695.9
52°	717.1	608.2	548.7	522.7	510.7	505.6	502.1
60°	678.8	579.4	532.7	511.5	499.6	493.2	488.5
75°	653.0	559.9	521.3	502.1	488.2	477.3	464.9
90°	661.2	560.6	513.3	493.2	484.1	470.6	446.5
110°	661.9	549.5	505.8	482.5	462.2	445.0	426.9
120°	680.2	561.4	510.8	486.0	464.5	443.2	410.8
135°	747.4	612.6	535.5	501.9	479.8	458.0	416.5
150°	885.0	704.2	597.8	532.8	502.4	481.7	441.1
Run VMG	1022.0	813.1	689.6	606.4	548.8	512.2	470.9
Selected Courses							
Windward / Leeward	1058.7	862.3	746.8	673.1	630.7	606.3	583.4
Circular Random	894.0	721.6	628.9	574.9	541.9	520.7	495.0
Coastal / Long Distance	1055.0	810.2	673.6	591.7	551.3	521.4	474.9
Non Spinnaker	953.6	763.7	660.1	599.0	561.2	536.9	507.8

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	42.8°	40.5°	40.5°	39.2°	38.3°	37.5°	37.5°
Beat VMG	3.29	3.95	4.48	4.87	5.05	5.14	5.17
52°	5.02	5.92	6.56	6.89	7.05	7.12	7.17
60°	5.30	6.21	6.76	7.04	7.21	7.30	7.37
75°	5.51	6.43	6.91	7.17	7.37	7.54	7.74
90°	5.44	6.42	7.01	7.30	7.44	7.65	8.06
110°	5.44	6.55	7.12	7.46	7.79	8.09	8.43
120°	5.29	6.41	7.05	7.41	7.75	8.12	8.76
135°	4.82	5.88	6.72	7.17	7.50	7.86	8.64
150°	4.07	5.11	6.02	6.76	7.17	7.47	8.16
Run VMG	3.52	4.43	5.22	5.94	6.56	7.03	7.65
Gybe Angles	146.0°	150.0°	151.0°	157.0°	180.0°	180.0°	180.0°