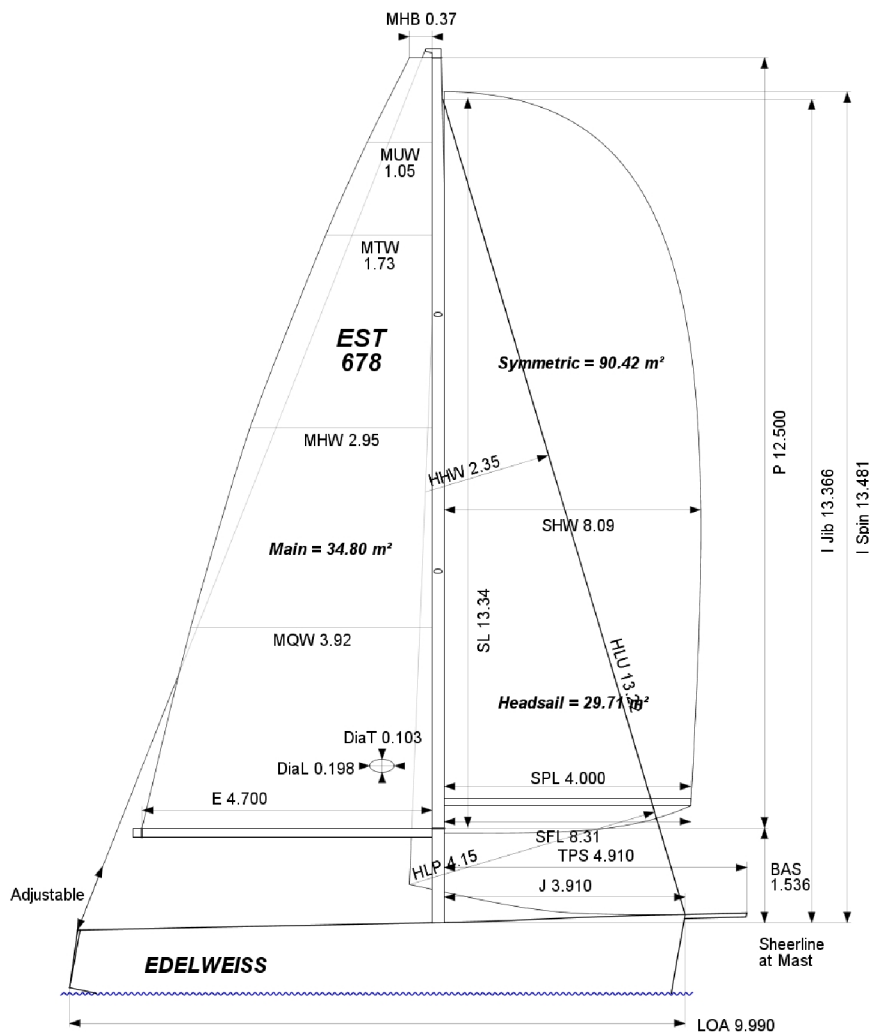




ORC
Offshore Racing Congress
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2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **154/20**
Issued On **09/09/2020**
ORC Ref **03880000Q2Q**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 627kg
Maximum **670kg**
Minimum* 503kg
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **661.8 0.9066**
Non Spin OSN **641.8 0.9348**

Sails Limitations

Headsails **5** Spinnakers **4**

Spinnaker configuration

Symmetric: **Yes 90.42**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 9.004

Stability (Measured)

Limit Positive Stab.: **114.0°**
Stability Index: **114.2**

BOAT				GPH		HULL					
Name EdelWeiss Sail Nr EST 678				626.7		Data File EST678		LOA	9.990m		
						Offset File T34-VER.OFF		MB	3.296m		
						Displacement 4,445kg		Draft	2.249m		
CLASS						IMS Division Cruiser/Racer				Dynamic All.	0.164%
						Plan Review				Construction	Cored
						Fiber Rigging No				Aramid Core	No
						Crew Arm Ex				Carbon Rudder	Yes
										Light Stanchions	No
Class T-34						IMSL 9.535m		VCGD	0.166m	Sink	17.87kg/mm
Designer Lostuzzi design						RL 8.484m		VCGM	0.109m	WS	23.10m
Builder T-Yachts						LSMO 9.371m Displacement/Length ratio 5.4015					
Series 04/2009											
Age Date 06/2009											
Age Allowance 0.357%											
COMMENTS						Water Ballast Trim Tab No					
						BLR Index 0.0000					
PROPELLER						CENTERBOARD					
Installation Strut						N/A					
PRD 0.382											
Type Folding 3 blades											
PBW 0.098											
PIPA 0.0036											
SCORING OPTIONS											
		COASTAL / LONG DISTANCE				WINDWARD / LEEWARD					
Time on Distance		609.2				679.3					
Time on Time		0.9849				0.9936					
Triple Number		Low	Medium	High	Low		Medium	High			
Time on Distance		716.6	555.3	497.1	925.5		680.6	595.0			
Time on Time		0.9419	1.2156	1.3580	0.7293		0.9918	1.1344			

BOAT

Name **EdeIWeiss**
File **EST678**

Sail Nr **EST 678**
Data in **meters/kilograms**

RIG

Forestay Tension **Aft**
Inner Stay **None Fitted**
Carbon Mast **No**
Fiber Rigging **No**
Non-Circular Rigging **No**
Articulated Bowsprit **No**

Spreaders **2**
Runners/Checkstays **0**
Jib Furler **No**
Main Furler **No**

P **12.500** E **4.700** MDT1 **0.103** MW **0.185**
IG **13.366** J **3.910** MDL1 **0.198** GO **0.207**
ISP **13.481** SFJ **0.000** MDT2 **0.103** BD **0.150**
BAS **1.536** SPL **4.000** MDL2 **0.155** MWT **132.50**
FSD **0.040** TPS **4.910** TL **2.060** MCG **4.900**

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**
Flotation date **03/07/2015** SG **1.0020**

FFM **1.259** FF **1.267** SFFP **0.550**
FAM **0.960** FA **0.965** SAFP **9.820**

W1 **62.0** PD1 **545.1** WD **11.260**
W2 **62.0** PD2 **544.2** GSA **1.0**
W3 **62.0** PD3 **548.5** RSA **1.0**
W4 **62.0** PD4 **549.4** PLM **9000.0**

LCF from stem on CL / on sheer **5.610 / 5.840**
Maximum beam station from stem **6.400**
RM Measured **100.5kg·m**
RM Default **111.0kg·m**
Limit of positive stability / Stab.Index **114.0° / 114.2**
Freeboard at mast at 3.910 **1.153**

MIZZEN RIG AND SAILS

N/A

PROPELLER

Installation **Strut** PRD **0.382**
Type **Folding 3 blades** PBW **0.098**
Twin Screw **No** PIPA **0.0036**

ST1 **0.065** ST3 **0.180** ST5 **0.224**
ST2 **0.180** ST4 **0.110** EDL **1.580**

COMMENTS

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

Certificate

Number **154/20**
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EJL
ESTONIAN YACHTING UNION

SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.37	1.05	1.73	2.95	3.92	34.80		09/09/2020	One sails	Unknown	P12,5;E4,70

HEADSAILS (7)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
9	0.10	0.71	1.32	2.35	3.27	4.15	13.22	106%	29.71	Y	No		24/05/2018		Unknown	
7	0.11	0.69	1.31	2.36	3.27	4.13	13.20	106%	29.61	Y	No		13/04/2017		Carbon	
4	0.10	0.69	1.28	2.32	3.32	4.25	12.97	109%	29.30	Y	No		18/04/2015		Unknown	
10	0.13	0.71	1.31	2.34	3.32	4.13	12.89	106%	29.04	Y	No	EST7	09/09/2020	OneSails	Unknown	
8	0.10	0.67	1.25	2.28	3.22	4.11	13.16	105%	28.92	Y	No		15/06/2016		Unknown	
5	0.09	0.66	1.25	2.24	3.22	4.20	12.98	107%	28.58	Y	No		18/04/2015		Unknown	

SYMMETRIC SPINNAKERS (6)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
8	13.34	13.34	13.34	8.09	8.31	90.43				Unknown	
5	13.44	13.44	13.44	7.83	7.20	86.29			North	Unknown	S2 2016
6	13.50	13.50	13.50	7.78	7.22	86.27			North	Unknown	S1,5 2016
7	13.60	13.60	13.60	7.20	7.60	82.51		16/06/2016	North	Unknown	S3 2016

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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MEASUREMENT INVENTORY

Measurer **Veiko Rosme EST2**
Date **03/07/2015**
Comment
Internal Ballast total = 0.0

Id	Item	Weight	Distance	VCG	Description
Id	Item	Maker	Model		
1	Engine	Volvo-Penta	D1-2+		
Id	Item	Weight	Description		

MEASUREMENT INVENTORY

Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Diesel	PVC	61.0	4.90			40.0 Ports.
2	Tank	Water	PVC	61.0	4.30			0.0 stb.

Id	Item	Weight	Distance	VCG	Description
1	Battery		4.85		100 Ah. stb
2	Battery		4.85		100 Ah. stb
1	Misc		9.60		Autopilot Nexus ML40

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ORC Club Certificate Appendix

BOAT			
Name	EdelWeiss	Certificate Number	154/20
Sail Nr	EST 678	Issued On	09/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1054.6	874.3	770.1	724.9	710.8	706.2	695.5
52°	690.6	584.5	531.1	511.0	504.7	502.0	495.9
60°	652.7	558.6	517.1	498.7	491.2	487.7	482.8
75°	625.8	540.4	506.6	487.1	473.0	464.9	459.1
90°	634.2	538.5	500.0	484.6	466.3	448.9	428.2
110°	631.2	528.0	489.5	463.6	444.7	432.4	409.5
120°	648.1	536.8	493.9	465.6	437.5	414.1	387.6
135°	716.1	580.5	514.1	483.3	455.7	427.8	372.2
150°	855.0	680.5	572.3	513.0	484.6	459.2	408.4
Run VMG	987.3	785.8	660.9	581.7	530.3	496.7	447.9
Selected Courses							
Windward / Leeward	1021.0	830.1	715.5	653.3	620.6	601.4	571.7
Circular Random	860.8	695.9	608.1	557.5	526.7	506.3	478.6
Coastal / Long Distance	1017.6	779.8	647.1	574.8	537.5	507.5	458.4
Non Spinnaker	923.5	740.3	641.2	583.4	548.0	525.0	495.3

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	42.8°	41.3°	40.1°	38.6°	38.3°	38.3°	38.3°
Beat VMG	3.41	4.12	4.67	4.97	5.06	5.10	5.18
52°	5.21	6.16	6.78	7.05	7.13	7.17	7.26
60°	5.52	6.44	6.96	7.22	7.33	7.38	7.46
75°	5.75	6.66	7.11	7.39	7.61	7.74	7.84
90°	5.68	6.68	7.20	7.43	7.72	8.02	8.41
110°	5.70	6.82	7.35	7.76	8.10	8.32	8.79
120°	5.56	6.71	7.29	7.73	8.23	8.69	9.29
135°	5.03	6.20	7.00	7.45	7.90	8.41	9.67
150°	4.21	5.29	6.29	7.02	7.43	7.84	8.81
Run VMG	3.65	4.58	5.45	6.19	6.79	7.25	8.04
Gybe Angles	139.5°	149.0°	149.5°	158.0°	180.0°	180.0°	180.0°