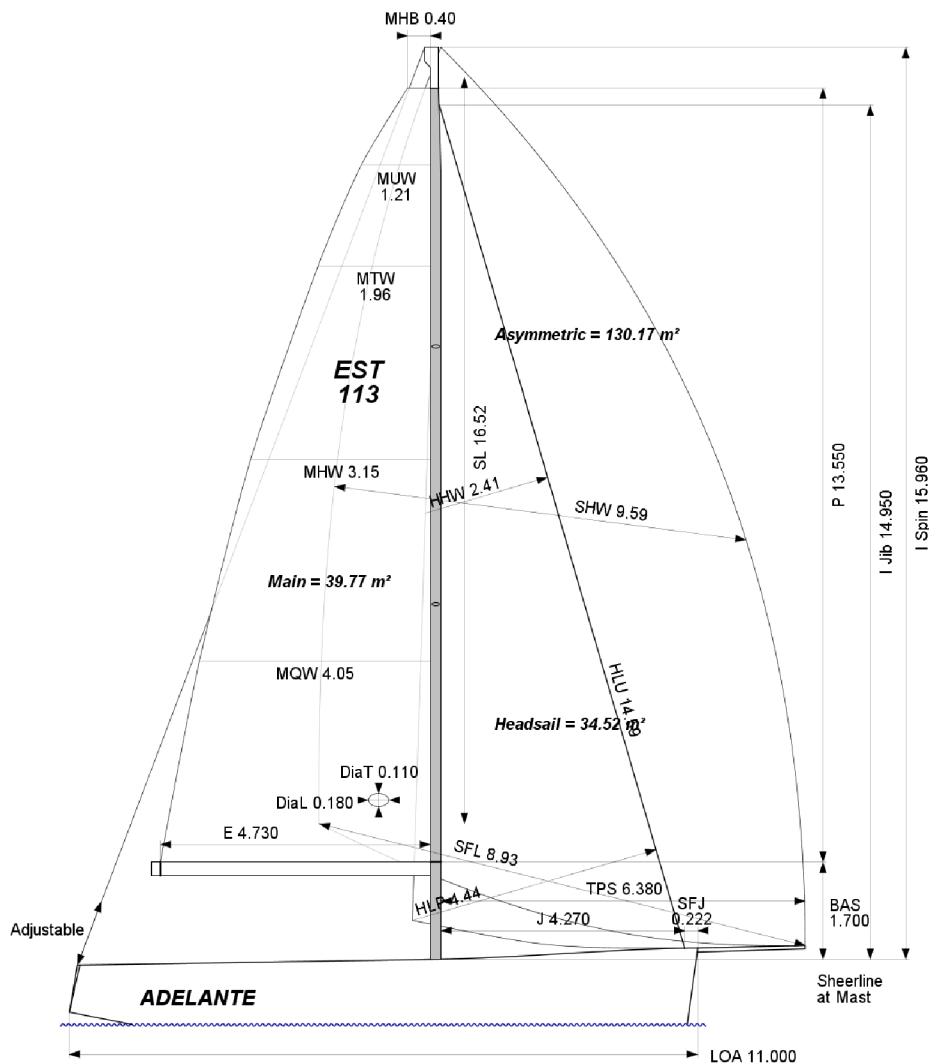




BOAT		GPH	HULL	
Name	Adelante	595.6	Data File	EST113
Sail Nr	EST-113		Offset File	J112E_EST113.o
CLASS			Displacement	5,170kg
Class	J-112E		LOA	11.000m
Designer	JOHNSTONE		MB	3.596m
Builder	J-BOATS		Draft	2.044m
Series	10/2015		IMS Division	Cruiser/Racer
Age Date	05/2020		Plan Review	Dynamic All. 0.128%
Age Allowance	0.163%		Fiber Rigging	No
COMMENTS			Crew Arm Ex	Construction Cored
PROPELLER			Light Stanchions	No
Installation	Strut	PRD 0.425	IMSL	10.034m
Type	Folding 2 blades	PBW 0.100	VCGD	-0.041m
		PIPA 0.0031	Sink	18.71kg/mm
CENTERBOARD			RL	9.235m
			VCGM	-0.079m
			WS	25.66m²
			LSM0	9.896m
			Displacement/Length ratio	5.3347
			Water Ballast	Trim Tab No
			BLR Index	0.0000
			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	579.7			652.4		
Time on Time	1.0351			1.0346		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	678.7	528.2	474.2	879.7	652.7	578.2
Time on Time	0.9946	1.2779	1.4235	0.7673	1.0342	1.1674



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2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
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UNION

Certificate

Number **135/20**
Issued On **04/08/2020**
ORC Ref **03880000NVW**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 678kg
Maximum **790kg**
Minimum* **593kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **638.0 0.9404**
Non Spin OSN **619.4 0.9687**

Sails Limitations

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

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 130.17**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = 9.629

Stability (Measured)

Limit Positive Stab.: **122.3°**
Stability Index: **121.5**

BOAT

Name **Adelante**
File **EST113**

Sail Nr **EST-113**
Data in **meters/kilograms**

RIG

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

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

P **13.550**
IG **14.950**
ISP **15.960**
BAS **1.700**
FSD **0.038**

E **4.730**
J **4.270**
SFJ **0.222**
SPL **6.380**

MDT1 **0.110**
MDL1 **0.180**
MDT2 **0.102**
MDL2 **0.146**
TL **1.460**

MW **0.173**
GO **0.198**
BD **0.237**
MWT **108.00**
MCG **4.290**

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**

Flotation date **19/07/2020**

SG **1.0000**

FFM **1.321**

FAM **1.033**

FF **1.325**

FA **1.049**

SFFP **0.488**

SAFP **10.805**

W1 **76.0**

W2 **76.0**

W3 **76.0**

W4 **76.0**

PD1 **584.4**

PD2 **584.4**

PD3 **585.2**

PD4 **585.0**

WD **12.560**

GSA **1.0**

RSA **1.0**

PLM **9000.0**

LCF from stem on CL / on sheer **5.871 / 6.108**

Maximum beam station from stem **6.647**

RM Measured **128.6kg·m**

RM Default **125.5kg·m**

Limit of positive stability / Stab.Index **122.3° / 121.5**

Freeboard at mast at 4.492 **1.145**

MIZZEN RIG AND SAILS

N/A

COMMENTS

PROPELLER

Installation **Strut**

Type **Folding 2 blades**

Twin Screw **No**

PRD **0.425**

PBW **0.100**

PIPA **0.0031**

ST1 **0.065**

ST2 **0.180**

ST3 **0.180**

ST4 **0.090**

ST5 **0.300**

EDL **2.140**

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

Certificate

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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

1b

0.40

1.21

1.96

3.15

4.05

39.77

21/07/2020

One sails

Unknown

2019

HEADSAILS (4)

Id

HHB

HUW

HTW

HHW

HQW

HLP

HLU

Ovrlp

Area

Btn

Flying

Measurer

Meas.Date

Manufacture

Material

Comment

1a

0.16

0.79

1.39

2.41

3.42

4.44

14.59

104%

34.52

Y

No

20/07/2019

One sails

Unknown

J1

2a

0.17

0.77

1.37

2.37

3.40

4.44

14.62

104%

34.32

Y

No

20/07/2019

One Sails

Unknown

J2

4

0.05

0.87

1.76

3.30

4.23

4.62

12.00

108%

34.12

N

Inner

02/07/2019

One Sails

Unknown

Staysail

3

0.13

0.51

0.97

1.99

3.13

4.33

13.79

101%

28.74

Y

No

03/05/2019

One sails

Unknown

J3

SYMMETRIC SPINNAKERS (0)

Id

SLU

SLE

SL

SHW

SFL

Area

Measurer

Meas.Date

Manufacture

Material

Comment

ASYMMETRIC SPINNAKERS (4)

Id

SLU

SLE

SL

SHW

SFL

Area

Kind

Measurer

Meas.Date

Manufacture

Material

Comment

2a

17.87

15.16

16.52

9.59

8.93

130.17

asym

Unknown

A-2

1a

17.57

15.01

16.29

8.95

8.93

121.45

asym

Unknown

A-1

4

17.50

14.60

16.05

7.39

7.70

99.68

asym

Unknown

A-3

3

16.18

14.89

15.54

5.38

6.32

72.09

asym

Unknown

A-0

MEASUREMENT INVENTORY

Measurer **EST7**

Date **19/07/2020**

Comment **Pirita**

Internal Ballast total = **377.0**

Id

Item

Weight

Distance

VCG

Description

Id

Item

Maker

Model

1

Engine

Volvo Penta

D1-30

Id

Item

Weight

Description

MEASUREMENT INVENTORY

Id

Item

Tank Use

Tank Type

Capcty

Dist.

VCG

Condn

Description

1

Tank

Water

Neopren bag

100.0

2.00

0-0 At the bow

2

Tank

Fuel

Plastic

80.0

8.27

60-0 Starport aft cabin

Id

Item

Weight

Distance

VCG

Description

1

Ballast

85.0

4.07

Centerline, front of mast

2

Ballast

110.0

5.17

Centerline

3

Ballast

55.0

5.67

Centerline

4

Ballast

27.0

3.44

Centerline

5

Ballast

73.0

3.84

Centerline

6

Ballast

27.0

4.69

Centerline

1

Battery

4.73

2x165ah starport side

2

Misc

8.27

Air heater, port aft cabin

1

Misc

10.00

autopilot

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2020

ORC Club Certificate Appendix

BOAT			
Name	Adelante	Certificate Number	135/20
Sail Nr	EST-113	Issued On	04/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1025.8	841.6	737.2	694.8	678.8	672.3	658.3
52°	665.6	557.5	506.5	487.4	480.5	477.2	471.1
60°	625.3	531.9	492.9	475.3	466.8	462.4	457.4
75°	597.2	514.6	482.7	463.4	448.4	438.2	430.1
90°	596.2	503.0	475.5	460.8	442.1	424.5	400.8
110°	583.2	493.6	459.6	434.7	419.2	406.6	382.0
120°	597.2	500.0	463.3	433.5	406.5	387.7	359.9
135°	672.1	538.5	482.2	452.4	423.1	395.0	335.0
150°	795.6	634.6	535.7	486.8	465.4	443.4	392.2
Run VMG	918.7	732.8	618.6	561.5	535.1	495.5	448.3
Selected Courses							
Windward / Leeward	972.2	787.2	677.9	628.2	606.9	583.9	553.3
Circular Random	816.6	660.5	577.9	530.8	502.0	482.5	454.3
Coastal / Long Distance	966.9	738.2	613.0	548.1	514.5	484.2	434.4
Non Spinnaker	895.5	715.7	617.9	560.4	524.6	500.8	469.2

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	43.1°	42.0°	40.5°	39.0°	39.0°	38.6°	38.3°
Beat VMG	3.51	4.28	4.88	5.18	5.30	5.35	5.47
52°	5.41	6.46	7.11	7.39	7.49	7.54	7.64
60°	5.76	6.77	7.30	7.57	7.71	7.79	7.87
75°	6.03	7.00	7.46	7.77	8.03	8.22	8.37
90°	6.04	7.16	7.57	7.81	8.14	8.48	8.98
110°	6.17	7.29	7.83	8.28	8.59	8.85	9.42
120°	6.03	7.20	7.77	8.30	8.86	9.29	10.00
135°	5.36	6.69	7.47	7.96	8.51	9.11	10.75
150°	4.52	5.67	6.72	7.40	7.74	8.12	9.18
Run VMG	3.92	4.91	5.82	6.41	6.73	7.26	8.03
Gybe Angles	144.0°	147.0°	148.5°	151.0°	152.0°	176.0°	177.0°