



World Leader in Rating Technology

2017 ORC Club Certificate

Rating Office

EYU
Regati 1
11911, Tallinn
Estonia

Certificate

Number **EST415**
Issued On **12.06.2017**
ORC Ref **EST00001409**
VPP Ver. **2017 1.00**
Valid until **31.12.2017**

Crew Weight

Declared **630kg**
Default* **717kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	642,6	0,9337
Double H.OSN	625,6	0,9591
Non Spin GPH	670,7	0,8946
Non Spin OSN	650,1	0,9230

Sails Limitations

Headsails **5** Spinnakers **3**

Spinnaker configuration

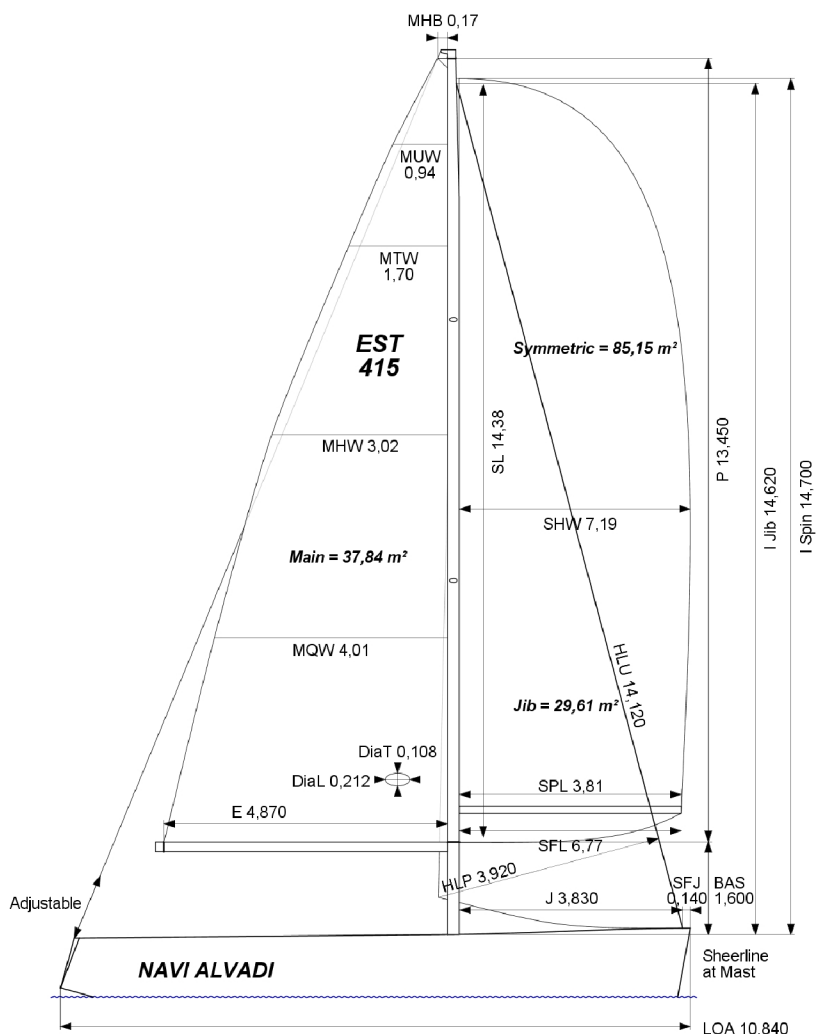
Symmetric: **Yes** 85,15
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9,095**

Stability (Measured)

Limit Positive Stab.: **110,9°**
Stability Index: **116,3**



BOAT	GPH	HULL
Name NaVi Alvadi Sail Nr EST415	639,1	Data File Est0415 LOA 10,840m Offset File ba35mk2d.off MB 3,276m Displacement 6 194kg Draft 2,024m
CLASS Class BAVARIA 35 Match Designer J&J DESIGN Builder BAVARIA YACHTBAU Series 01.2004 Age Date 04.2006 Age Allowance 0,422%		IMS Division Cruiser/Racer Dynamic All. 0,271% Fwd Accom. Yes Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions
COMMENTS		IMSL 10,177m VCGD -0,091m Sink 19,43kg/mm RL 8,011m VCGM 0,104m WS 25,94m² LSM0 10,287m Displacement/Length ratio 5,6899
PROPELLER Installation Strut PRD 0,430 Type Folding 3 blades PBW 0,105 PIPA 0,0038		Water Ballast 0 Trim Tab No
		CENTERBOARD N/A

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	620,6			694,1	
Time On Time	0,9668			0,9725		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	739,0	564,4	500,4	958,1	700,6	599,0
Time on Time	0,9134	1,1960	1,3488	0,7045	0,9634	1,1269



World Leader in Rating Technology

2017

ORC Club Certificate Appendix

BOAT	
Name NaVi Alvadi	Certificate Number EST415
Sail Nr EST415	Issued On 12.06.2017

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1101,8	914,2	809,8	746,0	719,8	707,6	692,2
52°	717,0	603,4	537,1	507,9	497,1	492,1	487,1
60°	674,0	568,8	515,5	492,9	482,0	477,2	474,3
75°	639,4	541,6	500,8	480,8	466,7	456,4	447,9
90°	641,4	541,6	493,7	479,2	463,8	449,0	424,6
110°	651,9	536,8	490,0	466,2	447,9	437,3	418,6
120°	672,4	551,9	496,9	471,5	449,9	427,7	403,2
135°	744,0	605,3	524,0	487,9	466,2	445,3	402,2
150°	877,9	695,1	589,1	521,4	488,5	467,9	428,1
Run VMG	1013,8	802,6	679,5	595,8	538,0	498,9	457,5

Selected Courses							
Windward / Leeward	1057,8	858,4	744,7	670,9	628,9	603,2	574,8
Circular Random	885,3	712,8	619,7	565,5	532,1	510,4	483,4
Ocean for PCS	1085,9	837,1	696,3	609,9	554,0	515,4	462,9
Non Spinnaker	942,9	753,3	649,6	588,1	549,9	524,9	493,8

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	43,4°	41,8°	42,1°	41,4°	40,3°	39,9°	39,2°
Beat VMG	3,27	3,94	4,45	4,83	5,00	5,09	5,20
52°	5,02	5,97	6,70	7,09	7,24	7,32	7,39
60°	5,34	6,33	6,98	7,30	7,47	7,54	7,59
75°	5,63	6,65	7,19	7,49	7,71	7,89	8,04
90°	5,61	6,65	7,29	7,51	7,76	8,02	8,48
110°	5,52	6,71	7,35	7,72	8,04	8,23	8,60
120°	5,35	6,52	7,25	7,64	8,00	8,42	8,93
135°	4,84	5,95	6,87	7,38	7,72	8,08	8,95
150°	4,10	5,18	6,11	6,90	7,37	7,69	8,41
Run VMG	3,55	4,49	5,30	6,04	6,69	7,22	7,87
Gybe Angles	145,2°	150,0°	151,8°	156,0°	173,2°	180,0°	180,0°