



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

EYU
Regati 1
11911
Estonia

Certificate

Number **EST685**
Issued On **16.08.2016**
ORC Ref **EST00001231**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**

Crew Weight

Declared	549kg
Default*	564kg
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Double H.GPH	660,8	0,9080
Double H.OSN	641,5	0,9353
Non Spin GPH	694,9	0,8634
Non Spin OSN	671,5	0,8935
N/S Perf. Line	-2,2	0,548

Sails Limitations

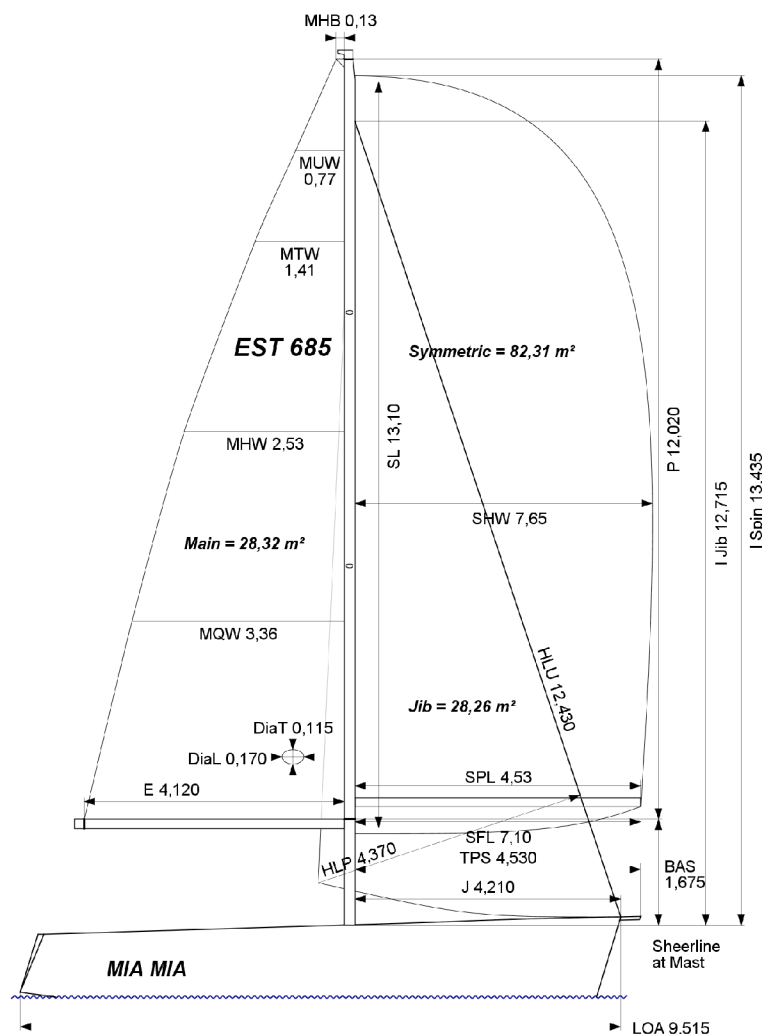
Headsails **6** Spinnakers **3**
Dacron Sails
Spinnaker configuration
Symmetric: **Yes** **82,31**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **8,285**

Stability

LPS (Measured): **118,2°**
Stability Index: **117,5**
OSR Category: **1**



BOAT		GPH	HULL	
Name	MIA MIA	656,1	Data File	Est0685.dxt
Sail Nr	EST 685		LOA	9,515m
CLASS			Offset File	f244.off
Class	First 30		Displacement	4 048kg
Designer	Juan Yacht Design		MB	3,208m
Builder	Beneteau		Draft	1,934m
Series	01.2010		IMS Division	Cruiser/Racer
Age Date	01.2011		Fwd Accom.	Yes
Age Allowance	0,195%		Fiber Rigging	No
COMMENTS			Crew Arm Ex	No
Ex.GER6470			Light Stanchions	
PROPELLER			IMSL	9,056m
Installation	Strut	PRD 0,410	VCGD	0,075m
Type	Feathering 2 blades	PBW 0,125	Sink	16,87kg/mm
		PIPA 0,0033	RL	7,512m
SCORING OPTIONS			VCGM	0,058m
			WS	21,95m²
			LSM0	8,699m
			Displacement/Length ratio	6,1494
			Water Ballast	0
			Trim Tab	No
			CENTERBOARD	
			N/A	

	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	635,5			711,0		
Time On Time	0,9441			0,9494		
Performance Line	0,619	23,5		0,756	170,9	
Triple Number	Low 0,8836	Medium 1,1674	High 1,3309	Low 0,6794	Medium 0,9414	High 1,1044



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ORC Club Certificate Appendix

BOAT

Name **MIA MIA**
Sail Nr **EST 685**

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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1183,6	969,1	850,3	770,4	736,4	722,6	715,4
52°	759,9	631,1	559,9	524,3	509,7	504,5	501,0
60°	708,5	593,0	535,8	509,1	494,4	488,3	484,6
75°	666,5	562,9	519,0	496,6	478,1	463,0	452,1
90°	668,5	555,6	508,5	493,5	477,6	459,5	426,5
110°	660,4	545,3	502,0	473,2	449,9	437,6	414,4
120°	677,6	556,6	507,6	478,9	449,6	421,6	393,1
135°	744,3	603,7	531,0	497,9	471,3	443,5	388,0
150°	880,9	696,6	589,1	527,7	497,8	473,3	422,8
Run VMG	1017,1	804,3	679,3	599,0	543,4	508,3	460,2
Selected Courses							
Windward / Leeward	1100,4	886,7	764,8	684,7	639,9	615,5	587,8
Circular Random	914,9	734,1	636,0	578,1	542,0	518,3	488,0
Ocean for PCS	1121,1	861,5	714,0	623,2	563,8	522,4	465,2
Non Spinnaker	984,4	783,2	672,5	606,5	565,1	538,1	504,6

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	44,6°	43,2°	42,7°	41,6°	40,1°	40,1°	40,2°
Beat VMG	3,04	3,71	4,23	4,67	4,89	4,98	5,03
52°	4,74	5,70	6,43	6,87	7,06	7,14	7,19
60°	5,08	6,07	6,72	7,07	7,28	7,37	7,43
75°	5,40	6,40	6,94	7,25	7,53	7,78	7,96
90°	5,39	6,48	7,08	7,29	7,54	7,83	8,44
110°	5,45	6,60	7,17	7,61	8,00	8,23	8,69
120°	5,31	6,47	7,09	7,52	8,01	8,54	9,16
135°	4,84	5,96	6,78	7,23	7,64	8,12	9,28
150°	4,09	5,17	6,11	6,82	7,23	7,61	8,51
Run VMG	3,54	4,48	5,30	6,01	6,63	7,08	7,82
Gybe Angles	145,8°	149,7°	151,2°	157,9°	180,0°	180,0°	180,0°