

2020 ORC Club Certificate

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **EST415**
Issued On **5/23/2020**
ORC Ref **03580000IN2**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 719kg
Maximum **360kg**
Minimum* **270kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **659.1 0.9103**
Non Spin OSN **640.4 0.9370**

Sails Limitations

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

Spinnaker configuration

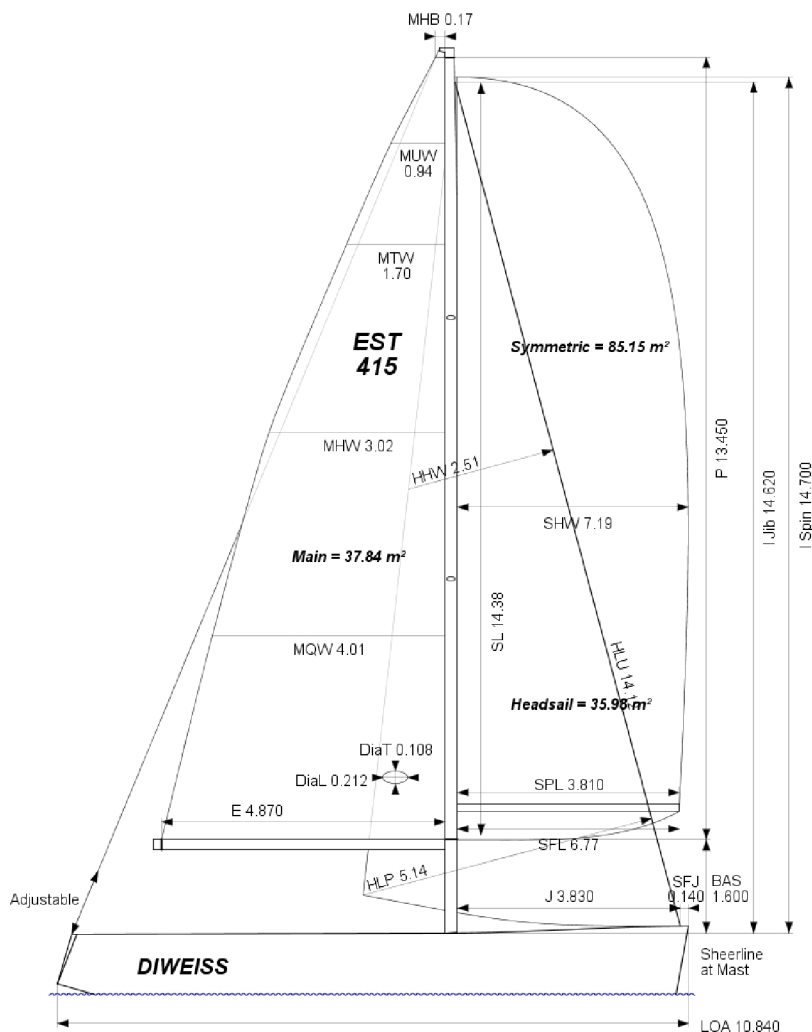
Symmetric: **Yes 85.15**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9.213**

Stability (Estimated)

Limit Positive Stab.: **121.8°**
Stability Index: **127.4**



BOAT			GPH			HULL		
Name DiWeiss			631.0			Data File Est0415 LOA 10.840m		
Sail Nr EST415						Offset File ba35mk2d.off MB 3.276m		
						Displacement 6,323kg Draft 2.032m		
CLASS						IMS Division Cruiser/Racer Dynamic All. 0.235%		
						Plan Review Construction Cored		
Class BAVARIA 35 Match						Fiber Rigging No Aramid Core No		
Designer J&J DESIGN						Crew Arm Ex Carbon Rudder No		
Builder BAVARIA YACHTBAU						Light Stanchions		
Series 01/2004						IMSL 10.171m VCGD -0.259m Sink 19.46kg/mm		
Age Date 04/2006						RL 8.253m VCGM -0.072m WS 26.08m		
Age Allowance 0.487%						LSM0 10.306m Displacement/Length ratio		
COMMENTS						Water Ballast Trim Tab No		
						BLR Index 0.0000		
PROPELLER						CENTERBOARD		
Installation Strut PRD 0.430						N/A		
Type Folding 3 blades PBW 0.105								
PIPA 0.0038								
SCORING OPTIONS								
			COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance			613.6			685.2		
Time on Time			0.9779			0.9851		
Triple Number			Low	Medium	High	Low	Medium	High
Time on Distance			720.5	559.1	503.2	928.6	689.4	601.2
Time on Time			0.9368	1.2073	1.3415	0.7269	0.9791	1.1228

BOAT										INCLINING TEST AND FREEBOARDS									
Name DiWeiss					Sail Nr EST415					Inclining Test Club Estimated VCG									
File Est0415					Data in meters/kilograms					Flotation date 23/05/2020 SG									
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 FF 1.169 SFFP 0.120 FAM FA 1.026 SAFF 10.517					LCF from stem on CL / on sheer 5.979 / 6.173 Maximum beam station from stem 6.670 RM Measured 129.3kg·m RM Default 125.5kg·m Limit of positive stability / Stab.Index 121.8° / 127.4 Freeboard at mast at 3.970 1.051									
P 13.450 E 4.870 MDT1 0.108 MW 0.180 IG 14.620 J 3.830 MDL1 0.212 GO 0.195 ISP 14.700 SFJ 0.140 MDT2 0.108 BD BAS 1.600 SPL 3.810 MDL2 0.150 MWT 155.00 FSD 0.033 TPS TL 2.400 MCG 5.430										PROPELLER Installation Strut PRD 0.430 Type Folding 3 blades PBW 0.105 Twin Screw No PIPA 0.0038 ST1 0.065 ST3 ST5 0.315 ST2 ST4 0.102 EDL 2.175									
MIZZEN RIG AND SAILS N/A										MOVABLE BALLAST N/A									
COMMENTS 										CENTERBOARD N/A									
Certificate Number EST415 ORC Ref 03580000IN2 Issued On 5/23/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020																			
2020 Measurements Datasheet																			
SAILS INVENTORY																			
MAINSAIL (2)																			
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
5	0.17	0.94	1.70	3.02	4.01	37.84	SLO 03	06/02/2017	OneSails	Twaron	P13,45;E4,87								
4	0.15	0.88	1.65	2.95	4.02	37.40	EST 1	14/04/2016	Neil	Kevlar									
HEADSAILS (3)																			
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment			
10	0.08	0.65	1.25	2.51	3.82	5.14	14.12	134%	35.98	No	No	SLO 02	06/02/2017	OneSails	Unknow				
9	0.11	0.65	1.20	2.16	3.05	4.00	14.03	104%	29.52	No	No	EST 1	14/04/2016	WB	Kevlar				
8	0.08	0.50	0.90	1.81	2.77	3.77	14.00	98%	25.99	No	No	EST 1	14/04/2016	WB	Kevlar				
SYMMETRIC SPINNAKERS (2)																			
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment								
7	14.38	14.38	14.38	7.19	6.77	85.16	SLO 03	06/02/2017	OneSails	Unknown									
6	13.95	13.95	13.95	7.05	6.00	79.52	EST 1	14/04/2016	WB	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 **DiWeiss**
Sail Nr **EST415**

Certificate Number **EST415**
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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1047.0	872.3	779.2	735.0	717.5	710.7	706.6
52°	688.5	583.1	528.3	506.7	499.0	495.5	494.4
60°	652.8	555.9	511.5	493.2	484.9	481.2	479.2
75°	625.2	536.6	499.6	481.9	470.2	462.3	455.9
90°	630.5	538.3	498.6	479.2	464.8	452.1	432.2
110°	647.2	535.6	490.2	467.9	450.9	440.5	422.6
120°	665.0	548.0	495.5	470.8	450.0	429.7	405.7
135°	734.2	597.9	520.1	485.8	464.3	443.1	401.0
150°	866.4	688.4	583.7	518.3	486.7	466.2	425.9
Run VMG	1000.4	794.9	673.6	592.0	535.9	497.5	456.1
Selected Courses							
Windward / Leeward	1023.7	833.6	726.4	663.5	626.7	604.1	581.3
Circular Random	865.8	700.2	612.1	561.7	531.4	512.1	489.0
Coastal / Long Distance	1021.3	783.4	654.4	579.6	541.1	511.8	466.5
Non Spinnaker	917.5	736.5	638.7	581.7	547.1	524.9	498.0

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°	40.9°	41.1°	40.5°	39.8°	39.6°	39.6°
Beat VMG	3.44	4.13	4.62	4.90	5.02	5.07	5.10
52°	5.23	6.17	6.81	7.10	7.21	7.27	7.28
60°	5.51	6.48	7.04	7.30	7.42	7.48	7.51
75°	5.76	6.71	7.21	7.47	7.66	7.79	7.90
90°	5.71	6.69	7.22	7.51	7.75	7.96	8.33
110°	5.56	6.72	7.34	7.69	7.98	8.17	8.52
120°	5.41	6.57	7.26	7.65	8.00	8.38	8.87
135°	4.90	6.02	6.92	7.41	7.75	8.12	8.98
150°	4.16	5.23	6.17	6.95	7.40	7.72	8.45
Run VMG	3.60	4.53	5.34	6.08	6.72	7.24	7.89
Gybe Angles	145.0°	150.0°	151.0°	156.0°	174.0°	180.0°	180.0°