



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

EYU
Regati 1
11911, Tallinn
Estonia

Certificate

Number **EST185**
Issued On **6/28/2018**
ORC Ref **EST00000270**
VPP Ver. **2018 1.00**
Valid until **12/31/2018**

Crew Weight

Default 345kg
Maximum **405kg**
Minimum* **304kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	743.6	0.8068
Double H.OSN	724.4	0.8283
Non Spin GPH	764.9	0.7844
Non Spin OSN	738.4	0.8126

Sails Limitations

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

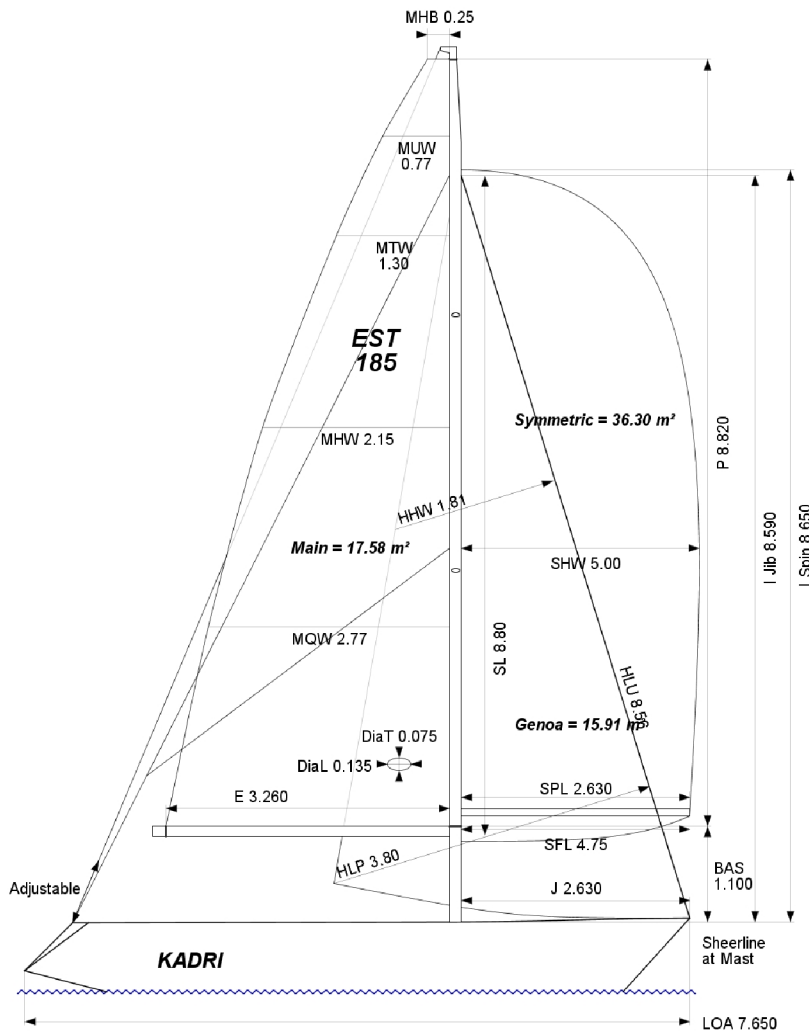
Spinnaker configuration
Symmetric: **Yes** **36.30**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.296

Stability (Estimated)

Limit Positive Stab.: **113.4°**
Stability Index: **105.8**



BOAT	GPH	HULL
Name KADRI Sail Nr EST 185	737.6	Data File Est0185 LOA 7.650m Offset File EST185CL.off MB 2.756m Displacement 1,703kg Draft 1.719m
CLASS Class Conrad 25R Designer Petterson Builder Teliga Series 01/1978 Age Date 01/1982 Age Allowance 0.487%		IMS Division Performance Dynamic All. 0.130% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions
COMMENTS		IMSL 6.233m VCGD 0.018m Sink 8.36g/mm RL 6.357m VCGM -0.001m WS 11.73m² LSM0 6.158m Displacement/Length ratio 7.2928
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	715.0	789.6
Time on Time	0.8392	0.8549
Triple Number	Low Medium High	Low Medium High
Time on Distance	837.3 655.7 589.3	1066.4 791.4 699.2
Time on Time	0.8062 1.0294 1.1454	0.6330 0.8529 0.9654

BOAT	
Name KADRI	Sail Nr EST 185
File Est0185	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 07/07/2015		SG 1.0055	
FFM 0.846	FF 0.851	SFFP 0.556	
FAM 0.793	FA 0.796	SAFP 6.920	
LCF from stem on CL / on sheer		4.085 / 4.293	
Maximum beam station from stem		4.510	
RM Measured		28.6kg·m	
RM Default		27.8kg·m	
Limit of positive stability / Stab.Index		113.4° / 105.8	
Freeboard at mast at 2.630		0.807	



2018
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 2		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 8.820	E 3.260	MDT1 0.075	MW 0.135
IG 8.590	J 2.630	MDL1 0.135	GO 0.155
ISP 8.650	SFJ	MDT2 0.063	BD
BAS 1.100	SPL 2.630	MDL2 0.076	MWT 44.00
FSP 0.052	TPS	TL 0.955	MCG 3.210

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
4	0.255	0.77	1.30	2.15	2.77	17.58		27/04/2018	NS	Unknown						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
6	0.07	0.47	0.90	1.81	2.78	3.80	8.56	144%	15.91				27/04/2018	NS	Unknow	G1 Medium
4	0.06	0.38	0.73	1.50	2.32	3.18	8.50	121%	13.14			EST 5	20/06/2013	HT	Dacron	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	8.80	8.80	8.80	5.00	4.75	36.30	D206	28/05/2014	NS	Unknown						
3	8.50	8.50	8.50	4.60	4.60	32.58	EST 1	12/08/2009	WB	Unknown						
1	8.20	8.20	8.20	4.60	4.60	31.43	EST 1	04/05/2000	WB							
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



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ORC Club Certificate Appendix

BOAT	
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1191.5	1006.2	893.9	837.5	820.9	815.7	828.7
52°	804.1	683.1	632.3	608.6	596.3	591.2	590.1
60°	769.4	660.9	619.4	595.7	580.4	572.1	567.8
75°	744.2	646.6	609.6	584.3	562.4	546.7	532.7
90°	751.7	636.3	592.5	564.3	546.4	535.6	506.9
110°	748.0	634.0	590.8	557.1	526.9	504.1	478.7
120°	773.7	646.8	598.6	565.1	533.8	506.2	463.6
135°	855.2	701.4	622.0	586.1	554.9	525.9	475.8
150°	995.1	796.8	677.7	615.6	583.3	554.2	502.8
Run VMG	1149.0	918.7	775.9	678.3	621.5	588.8	534.3

Selected Courses							
Windward / Leeward	1170.2	962.4	834.9	757.9	721.2	702.3	681.5
Circular Random	1006.9	817.2	716.2	658.0	622.6	600.1	572.7
Coastal / Long Distance	1168.1	907.0	760.3	675.9	633.7	601.1	545.8
Non Spinnaker	1054.3	851.1	742.0	678.7	639.9	615.2	586.1

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	40.6°	40.3°	39.3°	37.3°	36.9°	36.9°	38.4°
Beat VMG	3.02	3.58	4.03	4.30	4.39	4.41	4.34
52°	4.48	5.27	5.69	5.92	6.04	6.09	6.10
60°	4.68	5.45	5.81	6.04	6.20	6.29	6.34
75°	4.84	5.57	5.91	6.16	6.40	6.58	6.76
90°	4.79	5.66	6.08	6.38	6.59	6.72	7.10
110°	4.81	5.68	6.09	6.46	6.83	7.14	7.52
120°	4.65	5.57	6.01	6.37	6.74	7.11	7.76
135°	4.21	5.13	5.79	6.14	6.49	6.85	7.57
150°	3.62	4.52	5.31	5.85	6.17	6.50	7.16
Run VMG	3.13	3.92	4.64	5.31	5.79	6.11	6.74
Gybe Angles	149.1°	153.1°	154.4°	172.8°	180.0°	180.0°	180.0°