



ORC

Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

EYU
Purje 8
11911, Tallinn
Estonia

Certificate

Number **Est243**
Issued On **5/14/2020**
ORC Ref **03580000170**
VPP Ver. **2020 1.01**
Valid until **31/12/2020**

Crew Weight

Default	334kg
Maximum	270kg
Minimum*	185kg

*when applied by the NoR and SI

Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	841.6	0.7129
Non Spin OSN	813.7	0.7374

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

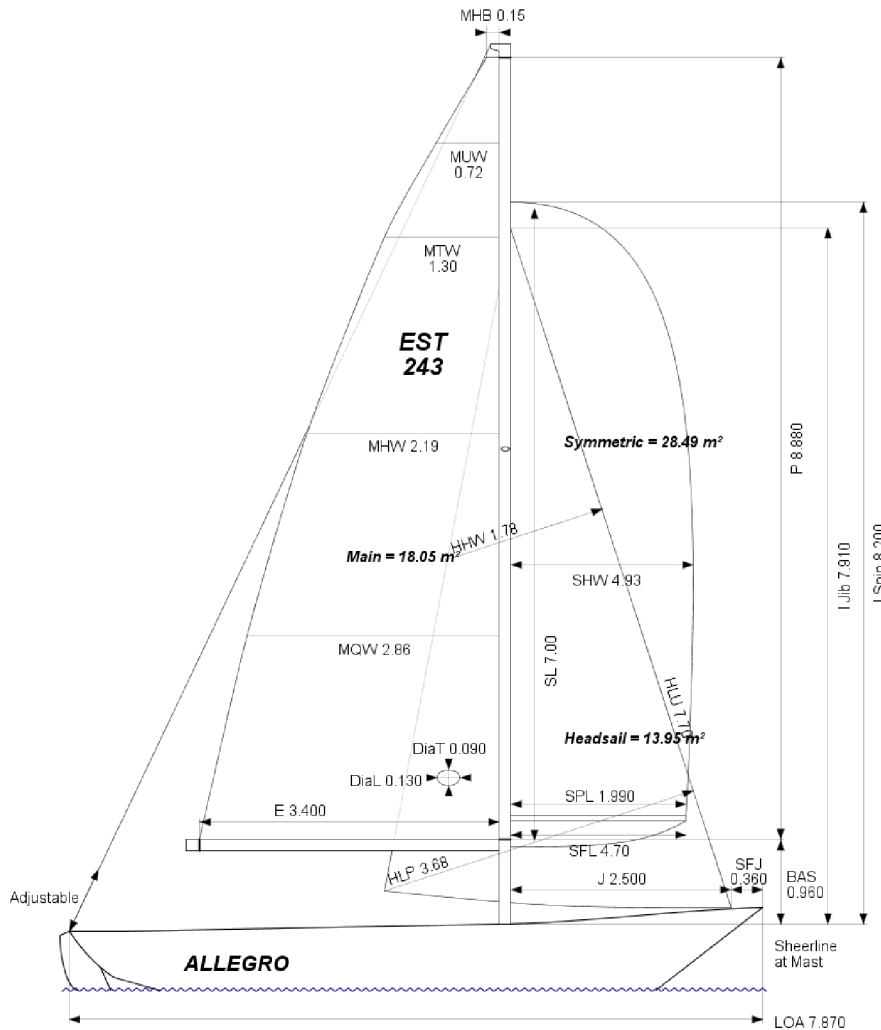
Symmetric: **Yes 28.49**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 5.345

Stability (Estimated)

Limit Positive Stab.: **131.9°**
Stability Index: **134.8**



BOAT		GPH		HULL						
Name ALLEGRO		816.8		Data File Est0243		LOA 7.870m				
Sail Nr EST 243				Offset File CBIFBat.off		Displacement 2,230kg		MB 2.200m		Draft 1.207m
CLASS				IMS Division Cruiser/Racer		Dynamic All. 0.581%				
Class INTERNATIONAL FOLK		Plan Review		Construction Solid		Fiber Rigging No		Aramid Core No		
Designer		Fiber Rigging No		Carbon Rudder No		Crew Arm Ex		Light Stanchions No		
Builder Marienhalm Bruk		IMSL 6.069m		VCGD 0.995m		Sink 7.79kg/mm		RL 4.621m		
Series 01/1967		RL 4.621m		VCGM -0.202m		WS 14.66m²		LSM0 6.017m		
Age Date 01/1971		LSM0 6.017m		Displacement/Length ratio						
Age Allowance 0.487%		Water Ballast		Trim Tab No						
COMMENTS				BLR Index 0.0000		CENTERBOARD				
Type No Propeller				N/A						
SCORING OPTIONS										
	COASTAL / LONG DISTANCE					WINDWARD / LEEWARD				
Time on Distance	793.5					888.0				
Time on Time	0.7561					0.7601				
Triple Number	Low	Medium	High	Low	Medium	High	Low	Medium	High	
Time on Distance	936.8	721.8	653.2	1206.4	890.5	786.2				
Time on Time	0.7205	0.9352	1.0333	0.5595	0.7580	0.8586				

BOAT	
Name ALLEGRO	Sail Nr EST 243
File Est0243	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 21/10/2019		SG	
FFM	FF	0.908	SFFP 0.750
FAM	FA	0.663	SAFP 7.250
LCF from stem on CL / on sheer		4.310 / 4.452	
Maximum beam station from stem		4.250	
RM Measured		22.4kg·m	
RM Default		21.7kg·m	
Limit of positive stability / Stab.Index		131.9° / 134.8	
Freeboard at mast at 2.860		0.744	



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Measurements
Datasheet

RIG			
Forestay Tension	Aft	Spreaders	1
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		
P	8.880	E	3.400
IG	7.910	J	2.500
ISP	8.200	SFJ	0.360
BAS	0.960	SPL	1.990
FSD		TPS	
MDT1	0.090	MW	
MDL1	0.130	GO	
MDT2		BD	
MDL2		MWT	
TL		MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

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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					
1	0.15	0.72	1.30	2.19	2.86	18.04										
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.43	0.87	1.78	2.73	3.68	7.70	147%	13.95		No					
2	0.06	0.35	0.65	1.23	1.80	2.45	7.45	98%	9.19		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	7.00	7.00	7.00	4.93	4.70	28.49										
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			
Name	ALLEGRO	Certificate Number	Est243
Sail Nr	EST 243	Issued On	5/14/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1405.6	1172.9	1043.1	982.3	962.5	956.9	968.7
52°	913.1	775.4	692.5	658.7	646.9	642.1	645.0
60°	861.4	733.1	664.9	637.3	624.4	619.3	618.8
75°	827.9	701.7	646.3	620.3	604.4	593.0	585.1
90°	821.4	683.6	627.6	603.8	594.1	578.9	554.3
110°	821.8	680.4	625.2	595.4	570.0	549.2	530.7
120°	851.2	700.3	634.3	603.2	576.7	550.7	512.6
135°	944.2	770.3	666.3	621.8	594.4	568.4	520.2
150°	1087.0	863.8	732.5	653.6	617.1	591.7	543.2
Run VMG	1255.1	992.3	837.3	725.6	655.0	619.0	570.2
Selected Courses							
Windward / Leeward	1330.4	1082.6	940.2	854.0	808.7	787.9	769.5
Circular Random	1123.9	907.3	791.9	726.3	687.7	664.5	639.2
Coastal / Long Distance	1322.8	1015.2	845.6	748.1	699.5	662.9	601.9
Non Spinnaker	1168.9	939.2	815.4	744.1	701.7	675.9	648.8

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	44.3°	41.6°	42.0°	42.8°	42.8°	42.8°	43.5°
Beat VMG	2.56	3.07	3.45	3.66	3.74	3.76	3.72
52°	3.94	4.64	5.20	5.47	5.57	5.61	5.58
60°	4.18	4.91	5.41	5.65	5.77	5.81	5.82
75°	4.35	5.13	5.57	5.80	5.96	6.07	6.15
90°	4.38	5.27	5.74	5.96	6.06	6.22	6.49
110°	4.38	5.29	5.76	6.05	6.32	6.55	6.78
120°	4.23	5.14	5.68	5.97	6.24	6.54	7.02
135°	3.81	4.67	5.40	5.79	6.06	6.33	6.92
150°	3.31	4.17	4.92	5.51	5.83	6.08	6.63
Run VMG	2.87	3.63	4.30	4.96	5.50	5.82	6.31
Gybe Angles	150.0°	156.0°	170.0°	174.0°	180.0°	180.0°	180.0°