



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **051/20**
Issued On **05/08/2020**
ORC Ref **03850000007**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 348kg
Maximum **348kg**
Minimum* **261kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **766.7 0.7826**
Non Spin OSN **743.2 0.8073**

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes 40.18**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

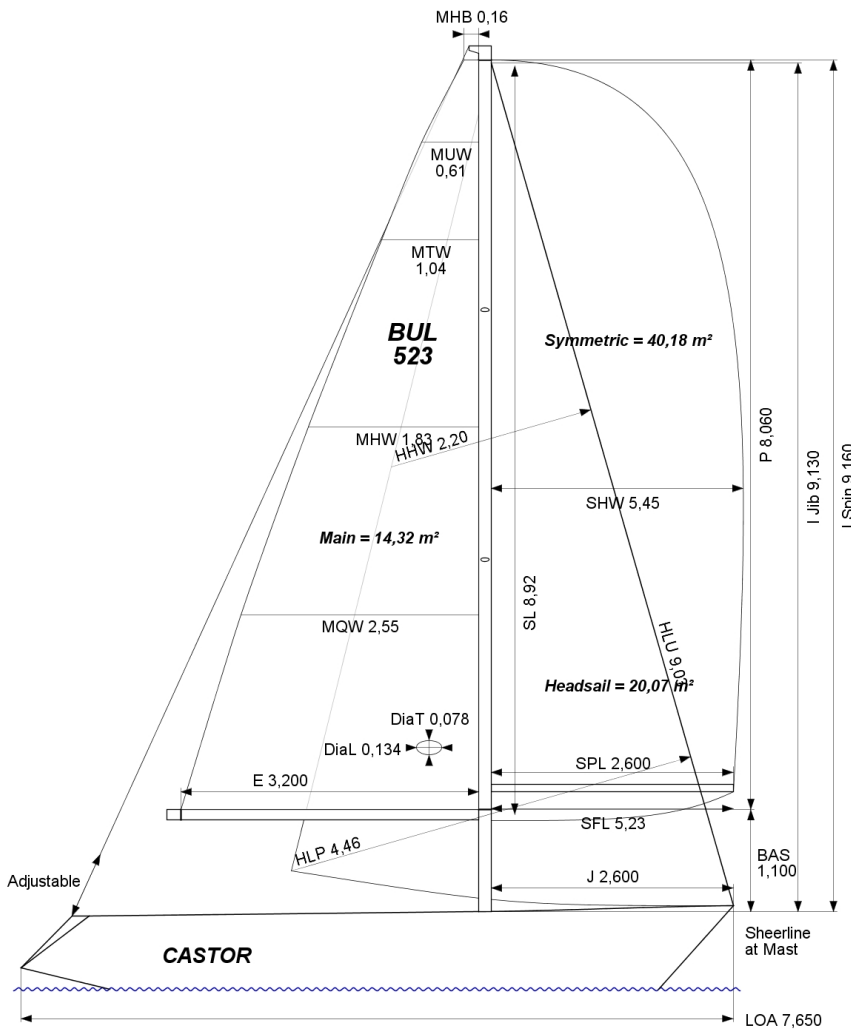
Class Division Length

CDL = 6.180

Stability (Estimated)

Limit Positive Stab.: **113.2°**
Stability Index: **105.5**

Owner



BOAT Name Castor Sail Nr BUL-523		GPH 739.3	HULL Data File BUL523 LOA 7.650m Offset File C760.off MB 2.756m Displacement 1,608kg Draft 1.527m			
CLASS Class Conrad 25R Designer Doug Peterson Builder Gdansk /PL/ Series 01/1976 Age Date 01/1986 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.054% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 6.218m VCGD 0.009m Sink 8.26kg/mm RL 6.141m VCGM 0.002m WS 11.31m² LSM0 6.196m Displacement/Length ratio 6.7601		
COMMENTS		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Type No Propeller		CENTERBOARD NA				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	718.6			796.0		
Time on Time	0.8350			0.8479		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	835.2	658.3	594.8	1067.2	796.7	708.9
Time on Time	0.8082	1.0253	1.1348	0.6325	0.8472	0.9522

2020

ORC Club Certificate Appendix

BOAT	
Name	Castor
Sail Nr	BUL-523
Certificate Number	051/20
Issued On	05/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1202.9	1015.8	902.4	852.1	837.4	833.8	851.2
52°	798.0	679.4	632.8	611.4	601.7	597.6	598.6
60°	758.6	655.5	618.7	598.0	584.6	578.4	576.3
75°	731.1	640.8	607.2	584.3	564.9	550.6	539.5
90°	739.7	641.9	598.8	572.4	556.9	537.1	510.5
110°	749.6	633.9	590.0	556.9	528.7	507.7	486.4
120°	772.4	644.7	596.5	561.9	530.7	503.8	464.5
135°	846.5	694.2	618.6	582.8	550.9	521.4	468.7
150°	985.8	790.0	672.6	613.3	581.1	551.7	499.4
Run VMG	1138.3	911.9	771.3	678.4	621.9	588.9	534.0
Selected Courses							
Windward / Leeward	1170.6	963.8	836.8	765.3	729.7	711.3	692.6
Circular Random	1005.2	817.5	718.0	661.1	626.9	605.2	579.7
Coastal / Long Distance	1167.4	907.7	761.6	680.6	639.0	605.4	550.8
Non Spinnaker	1053.3	851.7	743.9	681.8	644.2	620.4	593.2

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	41.6°	41.3°	39.8°	38.3°	37.9°	37.9°	39.4°
Beat VMG	2.99	3.54	3.99	4.22	4.30	4.32	4.23
52°	4.51	5.30	5.69	5.89	5.98	6.02	6.01
60°	4.75	5.49	5.82	6.02	6.16	6.22	6.25
75°	4.92	5.62	5.93	6.16	6.37	6.54	6.67
90°	4.87	5.61	6.01	6.29	6.46	6.70	7.05
110°	4.80	5.68	6.10	6.46	6.81	7.09	7.40
120°	4.66	5.58	6.04	6.41	6.78	7.15	7.75
135°	4.25	5.19	5.82	6.18	6.54	6.90	7.68
150°	3.65	4.56	5.35	5.87	6.20	6.53	7.21
Run VMG	3.16	3.95	4.67	5.31	5.79	6.11	6.74
Gybe Angles	148.5°	152.0°	153.5°	170.0°	180.0°	180.0°	180.0°