

APH: **607.1** CDL: **8.040**

GPH: **685.0** CertNo:

BOAT

Class **Winner 1010 x 1.80**
Designer **v.d.Stadt**
Builder **Winner**
Age date **04/2008**
Series date **04/1999**
Offset file **Win1010SD.off**
Data file

HULL

Length Overall **10.100 m**
Maximum Beam **3.248 m**
Draft **1.871 m**
Displacement **5,815 kg**
DLR **7.3446**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.387%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.382m**

CREW

Maximum weight **616 kg**
Minimum weight **462 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	31.17	31.66
Headsail Luffed	22.81	22.81
Headsail Flying		
Symmetric	70.29	70.29
Asymmetric		

STORM SAIL AREAS (m²)

Trysail **9.55**
Storm Jib **8.26**
Heavy Weather Jib **22.30**

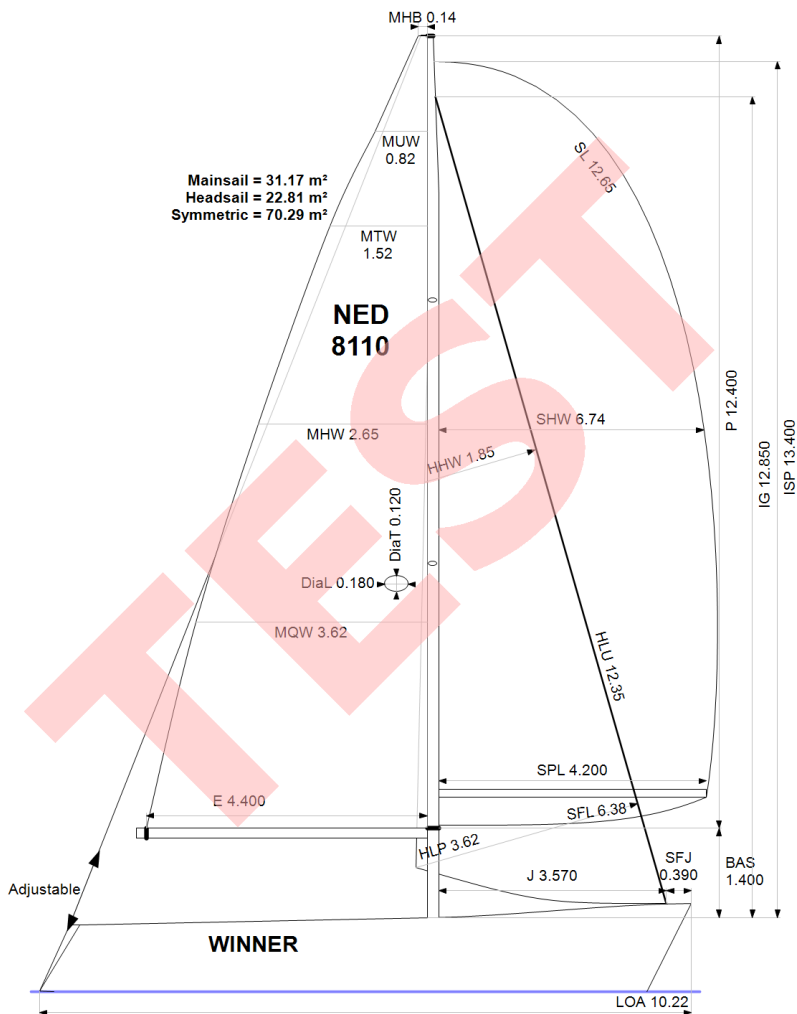
SAIL LIMITS

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

STABILITY

Righting Moment **126.3 kg·m**
Stability Index **N/A**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.



Rated boat velocities in knots							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.4°	42.4°	41.8°	41.7°	40.0°	39.3°	39.0°
Beat VMG	2.94	3.56	4.03	4.44	4.76	4.91	4.94
52°	4.56	5.40	6.07	6.54	6.80	6.94	7.01
60°	4.84	5.70	6.35	6.73	6.96	7.11	7.22
75°	5.04	5.93	6.56	6.89	7.11	7.29	7.57
90°	5.18	6.21	6.85	7.17	7.35	7.46	7.80
110°	5.24	6.33	6.94	7.28	7.60	7.92	8.31
120°	5.09	6.17	6.85	7.22	7.53	7.88	8.55
135°	4.63	5.63	6.49	6.97	7.30	7.63	8.36
150°	3.93	4.96	5.83	6.56	6.99	7.30	7.94
Run VMG	3.41	4.30	5.07	5.77	6.38	6.85	7.44
Gybe Angles	146.6°	151.4°	153.8°	157.4°	170.0°	178.1°	179.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1223.9	1010.3	894.2	810.8	755.8	733.6	728.0
52°	789.5	666.6	593.6	550.8	529.2	518.6	513.5
60°	743.9	631.7	566.7	534.7	517.0	506.3	498.5
75°	714.3	606.7	548.7	522.4	506.4	493.6	475.4
90°	695.6	579.8	525.4	502.0	490.0	482.7	461.7
110°	687.6	569.1	519.1	494.6	473.7	454.5	433.2
120°	707.5	583.9	525.3	498.7	478.0	457.1	420.8
135°	777.7	639.3	554.9	516.2	493.4	472.1	430.6
150°	915.5	725.4	617.6	548.5	514.8	493.5	453.2
Run VMG	1057.1	836.9	710.7	623.7	564.6	525.8	483.7
Selected Courses							
Windward / Leeward	1140.5	923.6	802.4	717.2	660.2	629.7	605.9
All purpose	875.8	720.1	635.3	583.7	551.5	532.6	510.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	750.3	0.7996
All purpose	607.1	0.9884

Custom scoring options for Netherlands

Single Number	Time On Time
Triple Number Coastal/Long Distance Low	0.7519
Triple Number Coastal/Long Distance Medium	0.9930
Triple Number Coastal/Long Distance High	1.1339
Triple Number Windward/Leeward Low	0.5814
Triple Number Windward/Leeward Medium	0.8015
Triple Number Windward/Leeward High	0.9548
Coastal/Long Distance	0.9050
Predominantly Upwind	0.9027
Predominantly Downwind	0.9817



Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Winner 1010 x 1.80	LOA	10.100	VCGD	0.099
Measurement	09/05/2022	Max. Beam	3.248	VCGM	0.073
HIN		Draft	1.871	RM Measured (kg·m)	126.3
Plan review		Displacement	5,815	RM Default (kg·m)	126.3
Hull construction	Solid	Wetted area	24.52	Limit of positive stability(°)	N/A
Aramid Hull Core	No	IMS L	9.296	Stability Index	N/A
Carbon Rudder	No	LSM0	9.250		
Light stanchions	No	Acc. length	10.216		
Trim tab	No	Sink (kg/mm)	18.90		

PROPELLER

Propeller Type	Folding 2 blades			
Installation	Strut	PRD	0.382	EDL ST3
Twin screw	No	PBW		ST1 ST4
Hydro generator	No	PIPA	0.0006	ST2 ST5

RIG

Forestay tension	Aft	P	12.400	E	4.400
Inner stay	None Fitted	IG	12.850	J	3.570
Carbon mast	No	ISP	13.400	BAS	1.400
Headsail furler	No	MDT1	0.120	FSD	Foil
Mainsail furler	No	MDL1	0.180	SFJ	0.390
Articulated bowsprit	No	MDT2		SPL	4.200
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	Taper	TPS	
Runners/Checkstays	0	MW		BD	
Spreaders	2	GO		MWT	
				MCG	

FLOTATION AND STABILITY

Calculation method	VCG estimated	SFFP	0.400	SAFP	9.581
Flotation Date	09/05/2022	FFM	1.363	FAM	1.000
Measurer	65	FF	1.372	FA	1.010
Comment		LCFcl	5.958	LCFsh	6.178
		SG	1.0000	HBI	1.161

INVENTORY

OTHER ITEMS	<i>Id</i>	<i>Kind</i>	<i>Description</i>	<i>Weight</i>	<i>LCG</i>	<i>VCG</i>
	SaS	Deductible	Sailor Services	38	7.34	0.00
			<i>Total deductible</i>	38	7.34	0.00

MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
2021	0.14	0.82	1.52	2.65	3.62	31.17			
01	0.14	0.77	1.43	2.60	3.59	30.64		Unknown	

HEADSAIL

<i>Id</i>	<i>HHB</i>	<i>HUW</i>	<i>HTW</i>	<i>HHW</i>	<i>HQW</i>	<i>HLP</i>	<i>HLU</i>	<i>Btn</i>	<i>Flying</i>	<i>FT</i>	<i>Area Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
2021	0.10	0.52	0.96	1.85	2.74	3.62	12.35	No	No		22.81			

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
0	12.65	12.65	12.65	6.74	6.38	70.29 15/04/2022	Hagoort	Unknown	
01	12.68	12.68	12.68	6.51	6.44	68.64		Unknown	