

APH: **605.7** CDL: **8.132**

GPH: **683.4** CertNo: **None**

BOAT

Class **Winner 1010 x 1.80**
Designer **v.d.Stadt**
Builder **Winner**
Age date **04/2008**
Series date **04/2005**
Offset file **Win1010SD.off**
Data file

HULL

Length Overall **10.100 m**
Maximum Beam **3.248 m**
Draft **1.870 m**
Displacement **5,784 kg**
DLR **7.3443**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.380%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **614 kg**
Minimum weight **461 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	31.10	31.58
Headsail Luffed	25.35	25.35
Headsail Flying		
Symmetric	70.33	70.33
Asymmetric	60.80	60.80

(All asymmetric spinnakers with SHW/SFL > 85%)

STORM SAIL AREAS (m²)

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

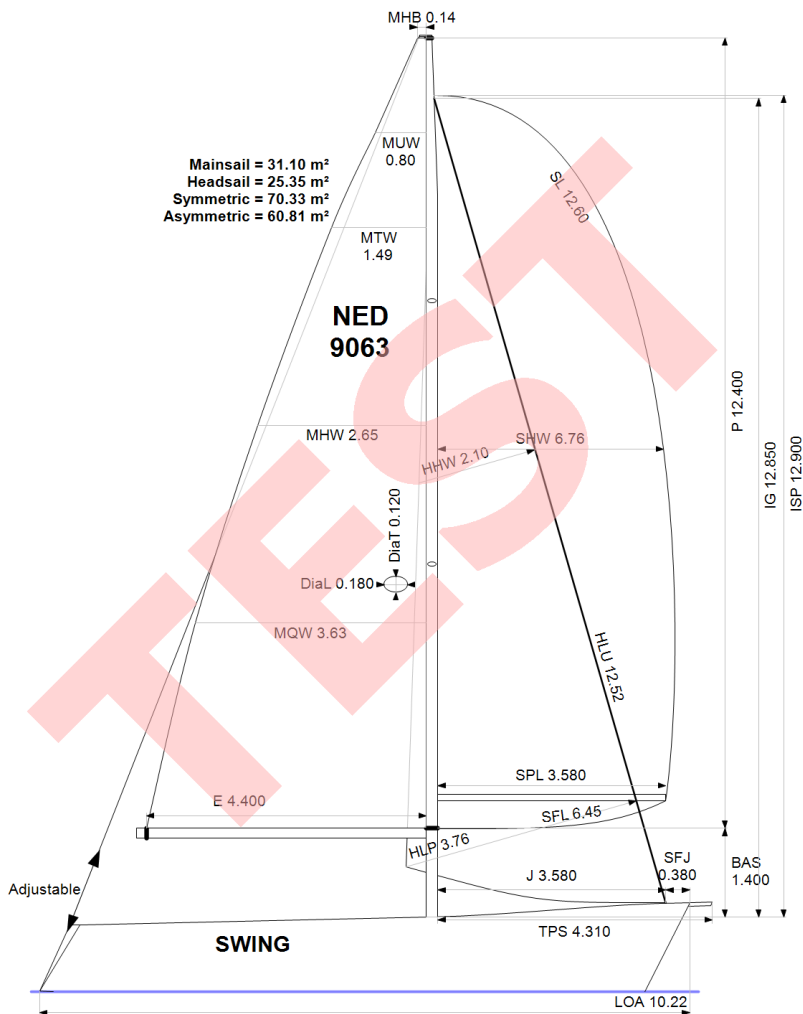
SAIL LIMITS

Headsails **5**
Spinnakers **4** * Asymmetric SHALL NOT be tacked on the pole

STABILITY

Righting Moment **127.0 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.



Mainsail = 31.10 m²
Headsail = 25.35 m²
Symmetric = 70.33 m²
Asymmetric = 60.81 m²

**NED
9063**

SWING

Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.2°	42.0°	41.8°	41.4°	39.9°	39.0°	39.0°
Beat VMG	2.99	3.61	4.08	4.50	4.80	4.91	4.94
52°	4.63	5.47	6.14	6.59	6.83	6.95	7.01
60°	4.91	5.77	6.41	6.77	6.99	7.13	7.22
75°	5.12	6.01	6.61	6.92	7.14	7.32	7.58
90°	5.18	6.21	6.85	7.19	7.43	7.59	7.83
110°	5.19	6.28	6.90	7.25	7.56	7.91	8.50
120°	5.04	6.10	6.81	7.18	7.49	7.85	8.57
135°	4.56	5.57	6.44	6.94	7.26	7.58	8.31
150°	3.88	4.90	5.77	6.52	6.96	7.26	7.89
Run VMG	3.36	4.25	5.01	5.72	6.34	6.82	7.41
Gybe Angles	146.0°	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	1204.2	995.9	881.7	799.6	750.3	732.8	728.2
52°	777.5	657.9	586.2	546.4	527.1	518.0	513.9
60°	732.7	623.6	561.3	531.5	515.0	505.2	498.8
75°	703.5	598.6	544.5	519.9	504.3	491.8	475.1
90°	695.6	579.6	525.4	501.0	484.4	474.5	459.7
110°	693.1	573.7	521.6	496.8	476.0	455.3	423.7
120°	714.9	590.3	528.6	501.6	480.5	458.7	420.0
135°	789.7	646.0	558.7	518.5	495.5	474.6	433.3
150°	928.1	734.3	624.1	552.5	517.3	495.7	456.1
Run VMG	1071.7	847.1	718.4	628.9	568.1	528.2	485.8
Selected Courses							
Windward / Leeward	1138.0	921.5	800.0	714.2	659.2	630.5	607.0
All purpose	873.8	718.4	633.6	581.9	550.4	532.2	510.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	748.6	0.8015
All purpose	605.7	0.9907

Custom scoring options for Netherlands

Single Number	Time On Time
Triple Number Coastal/Long Distance Low	0.7536
Triple Number Coastal/Long Distance Medium	0.9956
Triple Number Coastal/Long Distance High	1.1350
Triple Number Windward/Leeward Low	0.5827
Triple Number Windward/Leeward Medium	0.8039
Triple Number Windward/Leeward High	0.9541
Coastal/Long Distance	0.9072
Predominantly Upwind	0.9083
Predominantly Downwind	0.9795

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	Winner 1010 x 1.80	LOA	10.100	VCGD	0.087
Measurement	10/07/2019	Max. Beam	3.248	VCGM	0.063
HIN		Draft	1.870	RM Measured (kg·m)	127.0
Plan review		Displacement	5,784	RM Default (kg·m)	127.0
Hull construction	Solid	Wetted area	24.48	Limit of positive stability(°)	N/A
Aramid Hull Core	No	IMS L	9.289	Stability Index	N/A
Carbon Rudder	No	LSM0	9.234		
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	3.580
Carbon mast	No	ISP	12.900	BAS	1.400
Headsail furler	No	MDT1	0.120	FSD	Foil
Mainsail furler	No	MDL1	0.180	SFJ	0.380
Articulated bowsprit	No	MDT2		SPL	3.580
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	Taper	TPS	4.310
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	14/10/2021	FFM	1.368	FAM	1.001
Measurer		FF	1.381	FA	1.008
Comment		LCFcl	5.968	LCFsh	6.187
		SG	1.0000	HBI	1.165

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	22	5.10	0.00
			<i>Total deductible</i>	22	5.10	0.00

MAINSAIL

<i>Id</i>	<i>MHB</i>	<i>MUW</i>	<i>MTW</i>	<i>MHW</i>	<i>MQW</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
01	0.14	0.80	1.49	2.65	3.63	31.10	10/07/2019	Hagoort	Dacron	

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</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
0	0.12	0.63	1.16	2.10	2.97	3.76	12.52	Yes	No		25.35		Hagoort	Unknown	
01	0.11	0.53	0.98	1.90	2.82	3.72	12.52	Yes	No		23.76	10/07/2019	Hagoort	Dacron	

SYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
2022	12.60	12.60	12.60	6.76	6.45	70.33				

ASYMMETRIC SPINNAKER

<i>Id</i>	<i>SLU</i>	<i>SLE</i>	<i>SL</i>	<i>SHW</i>	<i>SFL</i>	<i>Ratio</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Maker</i>	<i>Material</i>	<i>Comment</i>
01	13.15	11.82	12.49	5.75	6.22	92%	60.80	10/07/2019	Hagoort	Unknown	