

APH ToD: **639.9** CDL: **7.243**

APH ToT: **0.9376** CertNo:

### BOAT

Class **Spirit 32**  
Designer **J de Ridder**  
Builder **van Heygen**  
Age date **01/1983**  
Series date **01/1980**  
Offset file **H037.BOF**  
Data file

### HULL

Length Overall **9.530 m**  
Maximum Beam **3.184 m**  
Draft **1.821 m**  
Displacement **4,752 kg**  
DLR **9.9484**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.620%**  
Age Allowance **0.487%**

### PROPELLER

Installation **Shaft exposed**  
Type **Feathering 2 blades**  
Diameter **0.430m**

### CREW

Maximum weight **484 kg (default)**  
Minimum weight **354 kg \* when applied**  
Non Manual Power **No**  
Crew Arm Extension

### SAIL AREAS (m²)

	Measured	Rated
Mainsail	<b>19.25</b>	<b>19.50</b>
Headsail Luffed	<b>29.38</b>	<b>29.38</b>
Headsail Flying		
Symmetric	<b>56.74</b>	<b>58.18</b>
Asymmetric	<b>57.11</b>	<b>59.53</b>

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

### STORM SAIL AREAS (m²)

Trysail **5.58**  
Storm Jib **7.20**  
Heavy Weather Jib **19.44**

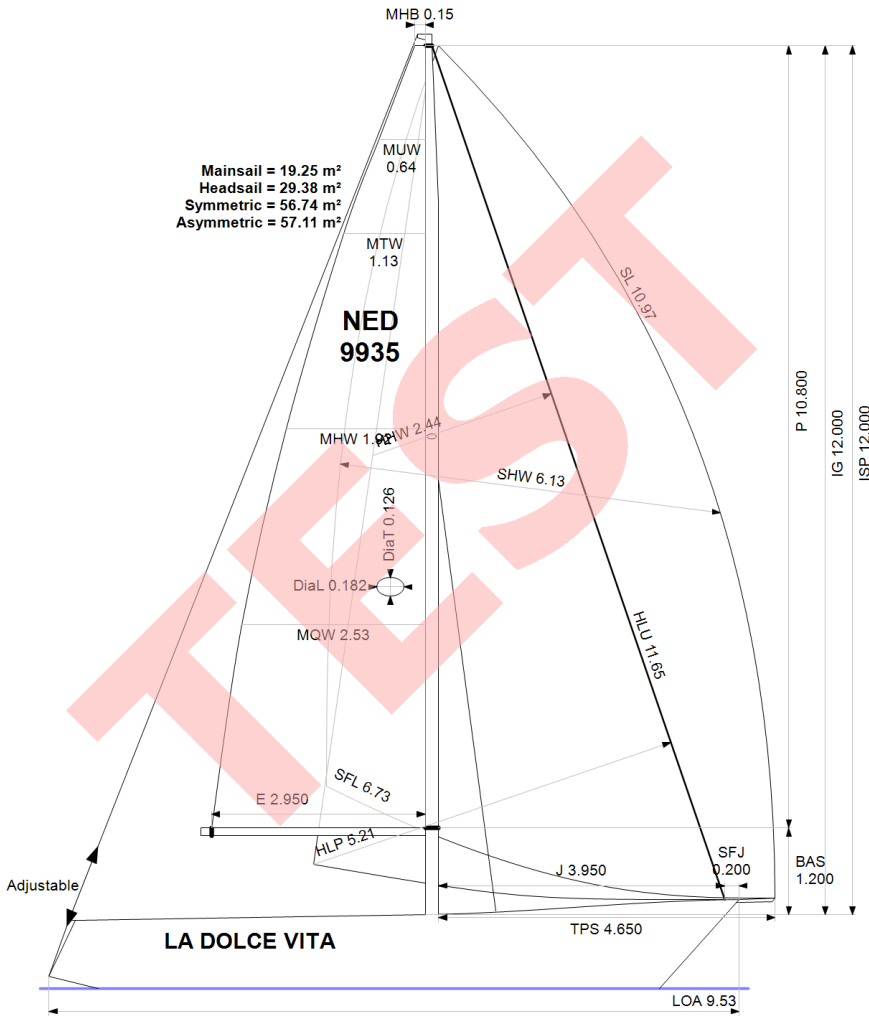
### SAIL LIMITS

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

### STABILITY

Righting Moment **N/A**  
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	24 kt
Beat Angles	43.3°	41.4°	40.0°	39.0°	38.5°	38.1°	38.1°	38.9°
Beat VMG	2.97	3.60	4.05	4.37	4.54	4.63	4.66	4.59
52°	4.51	5.33	5.87	6.19	6.36	6.47	6.53	6.52
60°	4.73	5.55	6.05	6.33	6.51	6.62	6.72	6.73
75°	4.85	5.69	6.19	6.47	6.66	6.81	7.00	7.09
90°	4.78	5.76	6.33	6.64	6.83	6.94	7.16	7.36
110°	4.87	5.87	6.43	6.77	7.04	7.27	7.64	7.86
120°	4.72	5.73	6.36	6.73	7.02	7.29	7.79	8.25
135°	4.29	5.30	6.07	6.52	6.83	7.11	7.64	8.19
150°	3.68	4.65	5.43	6.08	6.49	6.78	7.29	7.81
Run VMG	3.19	4.02	4.72	5.36	5.92	6.35	6.91	7.38
Gybe Angles	145.7°	146.8°	153.7°	158.5°	171.8°	178.1°	179.0°	179.0°

Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1212.2	1001.0	889.1	824.6	792.6	778.4	772.0	783.9
52°	797.8	675.2	612.8	581.9	565.6	556.5	550.9	552.0
60°	761.4	648.7	595.2	568.6	553.3	543.6	535.9	534.7
75°	742.8	632.4	581.9	556.7	540.5	528.8	513.9	508.0
90°	752.9	625.2	568.6	542.4	526.9	518.8	502.6	489.1
110°	739.9	613.5	559.5	531.8	511.6	495.1	471.3	458.2
120°	763.2	628.7	566.0	535.3	513.0	494.0	462.2	436.3
135°	838.5	678.9	593.1	552.1	526.9	506.4	471.3	439.6
150°	978.7	774.8	662.6	591.9	554.6	530.9	493.7	460.8
Run VMG	1130.1	894.7	762.0	671.0	608.1	566.9	521.2	487.6
Selected Courses								
Windward / Leeward	1171.1	947.8	825.6	747.8	700.3	672.6	646.6	635.8
All purpose	910.2	747.3	663.5	615.9	588.0	570.9	550.2	538.7

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	782.5	0.7668
All purpose	639.9	0.9376

### Custom scoring options for Netherlands

Scoring Option	Time On Time
Triple Number Coastal/Long Distance Low	0.7240
Triple Number Coastal/Long Distance Medium	0.9437
Triple Number Coastal/Long Distance High	1.0574
Triple Number Windward/Leeward Low	0.5663
Triple Number Windward/Leeward Medium	0.7707
Triple Number Windward/Leeward High	0.8958
Coastal/Long Distance	0.8625
Predominantly Upwind	0.8668
Predominantly Downwind	0.9246

### For information

General Purpose Handicap (GPH)	719.6
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Data in meters/kilograms (Metric)

**HULL AND APPENDAGES (Lightship Trim)**

Class	<b>Spirit 32</b>	LOA	<b>9.530</b>	VCGD	<b>-0.094</b>
Measurement	<b>31/08/2021</b>	Max. Beam	<b>3.184</b>	VCGM	<b>-0.049</b>
HIN		Draft	<b>1.821</b>	RM Rated (kg·m)	<b>68.4</b>
Plan review		Displacement	<b>4,752</b>	Limit of positive stability(°)	<b>N/A</b>
Hull construction	<b>Solid</b>	Wetted area	<b>19.89</b>	Stability Index	<b>N/A</b>
Carbon Rudder	<b>No</b>	IMS L	<b>7.926</b>	Default crew weight	<b>484</b>
Light stanchions	<b>No</b>	LSM0	<b>7.816</b>	Declared crew weight	<b>N/A</b>
Trim tab	<b>No</b>	Acc. length	<b>9.530</b>		
		Sink (kg/mm)	<b>13.60</b>		

**PROPELLER**

Propeller Type	<b>Feathering 2 blades</b>										
Installation	<b>Shaft exposed</b>	PRD	<b>0.430</b>	PSD	<b>0.000</b>	PSA	<b>0.0°</b>	ST1	<b>0.000</b>	ST4	<b>0.000</b>
Twin screw	<b>No</b>	PBW	<b>0.000</b>	PHD	<b>0.000</b>	ESL	<b>0.000</b>	ST2	<b>0.000</b>	ST5	<b>0.000</b>
Hydro generator	<b>No</b>	PIPA	<b>0.0024</b>	PHL	<b>0.000</b>			ST3	<b>0.000</b>		

**RIG**

Forestay tension	<b>Aft</b>	P	<b>10.800</b>	E	<b>2.950</b>
Inner stay	<b>Fixed</b>	IG	<b>12.000</b>	J	<b>3.950</b>
Mast material	<b>Aluminum</b>	ISP	<b>12.000</b>	BAS	<b>1.200</b>
Single headsail furler	<b>No</b>	MDT1	<b>0.126</b>	FSD	<b>Foil</b>
Mainsail furler	<b>No</b>	MDL1	<b>0.182</b>	SFJ	<b>0.200</b>
Articulated bowsprit	<b>No</b>	MDT2	<b>0.000</b>	SPL	<b>4.040</b>
Non-circular rigging	<b>No</b>	MDL2	<b>0.000</b>	WPL	
Fiber rigging	<b>No</b>	TL	<b>Taper</b>	TPS	<b>4.650</b>
Adjustable mast foot	<b>No</b>	MW	<b>0.000</b>	BD	<b>0.000</b>
Runners/Checkstays	<b>0</b>	GO	<b>0.000</b>	MWT	
Spreaders	<b>1</b>			MCG	
Rotating mast	<b>No</b>				

**FLOTATION AND STABILITY**

Calculation method	<b>RM estimated</b>
Flotation Date	<b>31/08/2021</b>

**INVENTORY**

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	SaS	Deductible	Sailor Services	47	3.32	1.06
	<i>Total deductible</i>			<b>17</b>	<b>3.32</b>	<b>1.06</b>

#### 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>Comment</i>
2023	0.15	0.64	1.13	1.92	2.53	19.25	07/10/2022	

#### 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 FT</i>	<i>Area</i>	<i>Meas.Date</i>	<i>Comment</i>
2023 i	0.04	0.64	1.22	2.44	3.76	5.21	11.65	No	No	29.38		
2023	0.09	0.58	1.09	2.05	3.01	3.91	11.95	Yes	No	24.24	03/10/2022	

#### 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>Comment</i>
2023	10.36	10.36	10.36	6.60	6.46	56.74	15/08/2022	

#### 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>Comment</i>
new	11.94	9.99	10.97	6.13	6.73	91%	57.11		

#### CRUISER/RACER REQUIREMENTS\*

Accommodation length	<b>9.5 m</b>	Table area	<b>0.44 m<sup>2</sup></b>	Headroom	<b>1.67 m</b>
Minimum number of berths	<b>4</b>	Personal gear stowage	<b>0.16 m<sup>3</sup></b>	Fresh water capacity	<b>70 l</b>
Minimum number of seats in cockpit	<b>4</b>	Food stowage	<b>0.24 m<sup>3</sup></b>	Fuel capacity	<b>40 l</b>

\* This list refers to the calculated requirements. See IMS Appendix 1 for the complete list of requirements.