

APH ToD: **614.3** CDL: **7.685**

APH ToT: **0.9767** CertNo:

BOAT

Class **FIRST 325**
Designer **J.BERRET**
Builder **BENETEAU**
Age date **04/1986**
Series date **01/1986**
Offset file **E140.OFF**
Data file **NED9124**

HULL

Length Overall **9.906 m**
Maximum Beam **3.376 m**
Draft **1.827 m**
Displacement **4,619 kg**
DLR **9.6585**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.410%**
Age Allowance **0.487%**

PROPELLER

Installation **Shaft exposed**
Type **Feathering 2 blades**
Diameter **0.440m**

CREW

Maximum weight **470 kg** (declared)
Minimum weight **340 kg** *when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	22.81	23.16
Headsail Luffed	30.95	30.95
Headsail Flying		
Symmetric	77.52	77.52
Asymmetric	71.72	71.72

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

STORM SAIL AREAS (m²)

Trysail **6.87**
Storm Jib **7.94**
Heavy Weather Jib **21.44**

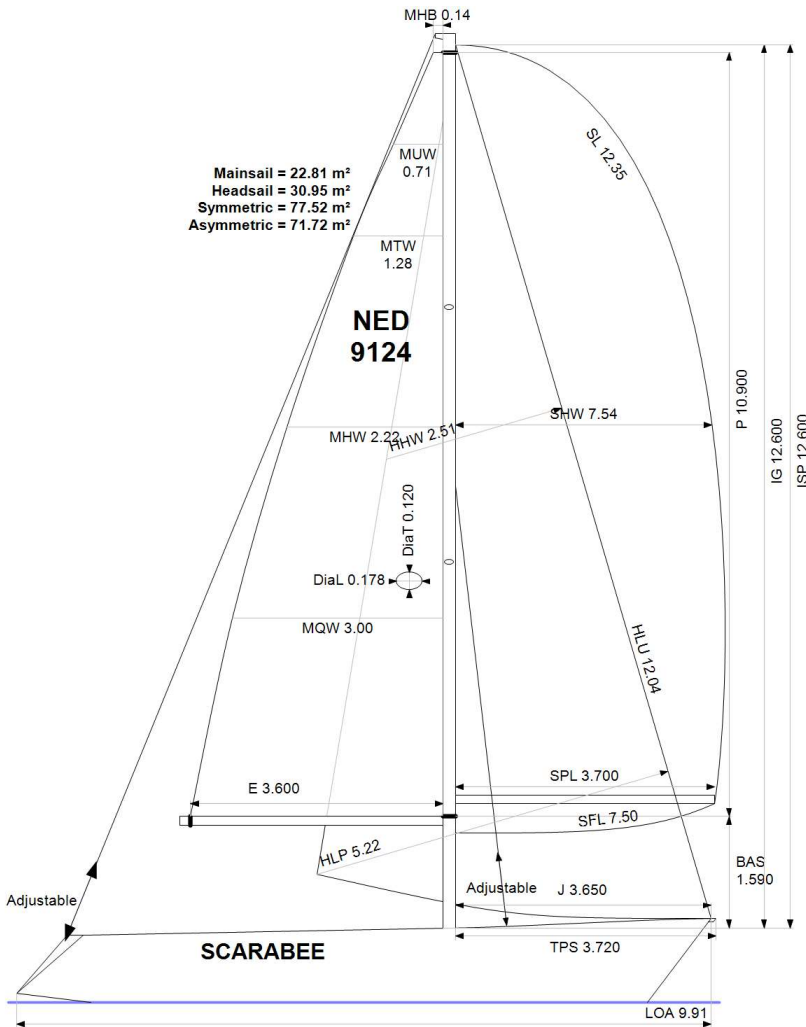
SAIL LIMITS

Headsails **5**
Spinnakers **4** *Asymmetric may 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	43.2°	41.3°	39.7°	38.5°	38.1°	37.7°	38.4°	39.0°
Beat VMG	3.15	3.81	4.27	4.56	4.69	4.75	4.76	4.67
52°	4.79	5.63	6.13	6.40	6.55	6.63	6.67	6.66
60°	5.03	5.84	6.29	6.54	6.70	6.80	6.86	6.87
75°	5.16	5.98	6.41	6.67	6.86	7.00	7.17	7.24
90°	5.10	6.04	6.54	6.81	6.97	7.07	7.37	7.58
110°	5.17	6.16	6.66	6.97	7.23	7.47	7.85	8.13
120°	5.01	6.04	6.60	6.94	7.23	7.53	8.15	8.66
135°	4.54	5.59	6.34	6.75	7.07	7.37	8.08	8.95
150°	3.84	4.87	5.76	6.40	6.77	7.06	7.65	8.43
Run VMG	3.32	4.22	5.00	5.67	6.21	6.61	7.17	7.74
Gybe Angles	144.2°	150.1°	151.9°	159.7°	173.6°	178.1°	178.8°	177.9°

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	1142.7	945.4	843.2	789.7	767.4	757.4	756.6	770.5
52°	751.2	639.5	587.0	562.3	549.2	543.1	539.6	540.8
60°	716.0	616.1	572.3	550.3	537.4	529.8	524.8	523.8
75°	698.1	602.1	561.2	539.6	525.1	514.6	502.1	497.4
90°	706.2	595.8	550.6	528.5	516.5	508.9	488.3	474.7
110°	695.8	584.7	540.9	516.6	498.0	481.7	458.7	442.7
120°	718.3	596.2	545.4	518.7	497.8	478.4	441.8	415.7
135°	792.7	644.4	568.1	533.1	509.5	488.7	445.5	402.4
150°	938.0	739.5	624.5	562.9	532.0	510.2	470.8	427.2
Run VMG	1083.2	853.9	720.0	634.6	579.9	544.6	502.1	465.2
Selected Courses								
Windward / Leeward	1112.9	899.6	781.6	712.2	673.6	651.0	629.3	617.8
All purpose	860.7	709.7	633.5	592.1	569.2	554.3	534.1	520.3

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	746.9	0.8034
All purpose	614.3	0.9767

Custom scoring options for Netherlands

Scoring Option	Time On Time
Triple Number Coastal/Long Distance Low	0.7641
Triple Number Coastal/Long Distance Medium	0.9837
Triple Number Coastal/Long Distance High	1.0901
Triple Number Windward/Leeward Low	0.5963
Triple Number Windward/Leeward Medium	0.8094
Triple Number Windward/Leeward High	0.9252
Coastal/Long Distance	0.8999
Predominantly Upwind	0.9038
Predominantly Downwind	0.9658

For information

General Purpose Handicap (GPH)	688.5
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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	FIRST 325	LOA	9.906	VCGD	-0.057
Measurement	16/06/2021	Max. Beam	3.376	VCGM	0.015
HIN		Draft	1.827	RM Rated (kg·m)	83.8
Plan review		Displacement	4,619	Limit of positive stability(°)	N/A
Hull construction	Solid	Wetted area	20.42	Stability Index	N/A
Carbon Rudder	No	IMS L	8.219	Default crew weight	485
Light stanchions	No	LSM0	7.819	Declared crew weight	470
Trim tab	No	Acc. length	9.906		
		Sink (kg/mm)	14.68		

PROPELLER

Propeller Type	Feathering 2 blades					
Installation	Shaft exposed	PRD	0.440	PSD	PSA	ST1 ST4
Twin screw	No	PBW		PHD	ESL	ST2 ST5
Hydro generator	No	PIPA	0.0025	PHL		ST3

RIG

Forestay tension	Aft	P	10.900	E	3.600
Inner stay	Adjustable	IG	12.600	J	3.650
Mast material	Aluminum	ISP	12.600	BAS	1.590
Single headsail furler	No	MDT1	0.120	FSD	
Mainsail furler	No	MDL1	0.178	SFJ	0.000
Articulated bowsprit	No	MDT2		SPL	3.700
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	No Taper	TPS	3.720
Adjustable mast foot	No	MW		BD	
Runners/Checkstays	0	GO		MWT	
Spreaders	2			MCG	
Rotating mast	No				

FLOTATION AND STABILITY

Calculation method	RM estimated	SFFP	0.653	SAFP	8.957
Flotation Date	16/06/2021	FFM	1.177	FAM	0.928
Measurer	65	FF	1.179	FA	0.946
		LCFcl	5.309	LCFsh	5.570
		SG	1.0000	HBI	1.062

INVENTORY

TANKS	Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG
	FW1	Water		120	0	4.52	
	FW2	Water		120	0	4.52	
	DT	Diesel	0.9000	50	45	7.90	
				<i>Total deductible</i>	41	7.90	
OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG	
	1	Engine	Betamarine BD 722 20pk				
				<i>Total deductible</i>			

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>
01	0.14	0.71	1.28	2.22	3.00	22.81	07/12/2020	

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>
Jib 1	0.09	0.65	1.25	2.51	3.86	5.22	12.04	No	No	30.95	07/12/2020	
Jib 2	0.08	0.51	0.96	1.86	2.74	3.59	12.04	Yes	No	22.18	07/12/2020	

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>
Spi 1	12.35	12.35	12.35	7.54	7.50	77.52	01/03/2020	
Spi 2	12.30	12.30	12.30	5.98	6.14	61.62	16/06/2021	

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>
14491	12.70	10.75	11.73	7.15	8.10	88%	71.72	16/06/2021	

CRUISER/RACER REQUIREMENTS*

Accommodation length	9.9 m	Table area	0.44 m²	Headroom	1.70 m
Minimum number of berths	4	Personal gear stowage	0.16 m³	Fresh water capacity	78 l
Minimum number of seats in cockpit	4	Food stowage	0.24 m³	Fuel capacity	48 l

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