

APH: **608.8**

CDL: **7.817**

GPH: **685.9**

CertNo:

BOAT

Class **HANSE 315**
Designer **JUDEL/VROLIJK**
Builder **HANSE YACHTS**
Age date **04/2006**
Series date **01/2006**
Offset file **HAN315.OFF**
Data file

HULL

Length Overall **9.350 m**
Maximum Beam **3.192 m**
Draft **1.755 m**
Displacement **4,368 kg**
DLR **7.3466**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.330%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 3 blades**
Diameter **0.380m**

CREW

Maximum weight **538 kg**
Minimum weight **403 kg** * when applied
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	25.97	26.20
Headsail Luffed	21.91	21.91
Headsail Flying		
Symmetric	63.39	63.39
Asymmetric	54.59	54.59

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

STORM SAIL AREAS (m²)

Trysail **8.39**
Storm Jib **7.36**
Heavy Weather Jib **19.87**

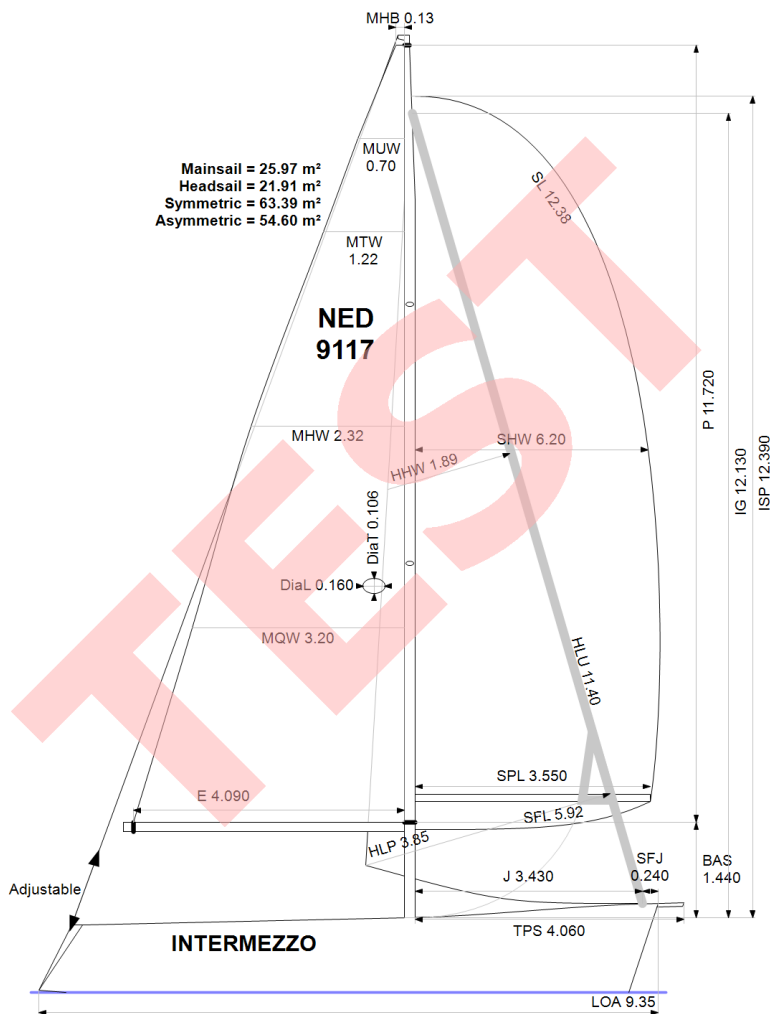
SAIL LIMITS

Headsails **1**
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
Beat Angles	44.4°	42.4°	41.1°	39.9°	38.7°	38.2°	39.0°
Beat VMG	3.01	3.67	4.16	4.53	4.76	4.85	4.88
52°	4.64	5.54	6.13	6.48	6.70	6.82	6.90
60°	4.91	5.81	6.34	6.65	6.86	7.00	7.12
75°	5.09	5.99	6.50	6.80	7.02	7.21	7.48
90°	5.18	6.18	6.73	7.06	7.30	7.46	7.66
110°	5.21	6.25	6.80	7.15	7.48	7.79	8.35
120°	5.05	6.10	6.72	7.09	7.42	7.77	8.48
135°	4.54	5.61	6.39	6.84	7.19	7.52	8.24
150°	3.85	4.91	5.80	6.45	6.86	7.18	7.82
Run VMG	3.33	4.25	5.04	5.71	6.29	6.73	7.34
Gybe Angles	145.7°	150.2°	153.8°	160.0°	173.6°	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	1196.5	979.7	865.4	795.5	757.1	741.7	738.3
52°	776.2	649.7	587.1	555.1	537.4	527.5	521.6
60°	733.3	619.9	567.7	541.3	525.0	514.3	505.5
75°	708.0	601.4	553.9	529.7	513.0	499.4	481.4
90°	695.3	582.4	535.0	510.2	493.2	482.8	470.0
110°	691.1	576.0	529.5	503.2	481.4	461.9	431.2
120°	713.3	589.7	536.0	507.8	485.0	463.6	424.4
135°	792.1	641.9	563.7	526.2	501.0	478.6	436.7
150°	935.5	733.2	621.0	557.8	524.6	501.1	460.1
Run VMG	1080.2	846.5	714.5	630.0	572.3	535.3	490.1
Selected Courses							
Windward / Leeward	1138.4	913.1	789.9	712.8	664.7	638.5	614.2
All purpose	874.0	714.1	633.0	586.1	557.4	539.5	517.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	747.5	0.8026
All purpose	608.8	0.9855

Custom scoring options for Netherlands

Scoring Option	Time On Time
Triple Number Coastal/Long Distance Low	0.7556
Triple Number Coastal/Long Distance Medium	0.9914
Triple Number Coastal/Long Distance High	1.1201
Triple Number Windward/Leeward Low	0.5850
Triple Number Windward/Leeward Medium	0.8074
Triple Number Windward/Leeward High	0.9435
Coastal/Long Distance	0.9049
Predominantly Upwind	0.9067
Predominantly Downwind	0.9755

Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)

Class	HANSE 315	LOA	9.350	VCGD	0.002
Measurement	01/01/2022	Max. Beam	3.192	VCGM	-0.009
HIN		Draft	1.755	RM Rated (kg-m)	91.6
Plan review		Displacement	4,368	Limit of positive stability(°)	N/A
Hull construction	Cored	Wetted area	20.45	Stability Index	N/A
Carbon Rudder	No	IMS L	8.587		
Light stanchions	No	LSM0	8.408		
Trim tab	No	Acc. length	9.350		
		Sink (kg/mm)	15.66		

PROPELLER

Propeller Type	Folding 3 blades				
Installation	Strut	PRD	0.380	EDL	ST3
Twin screw	No	PBW		ST1	ST4
Hydro generator	No	PIPA	0.0006	ST2	ST5

RIG

Forestay tension	Aft	P	11.720	E	4.090
Inner stay	None Fitted	IG	12.130	J	3.430
Carbon mast	No	ISP	12.390	BAS	1.440
Headsail furler	Yes	MDT1	0.106	FSD	No Foil
Mainsail furler	No	MDL1	0.160	SFJ	0.240
Articulated bowsprit	No	MDT2		SPL	3.550
Non-circular rigging	No	MDL2		WPL	
Fiber rigging	No	TL	Taper	TPS	4.060
Runners/Checkstays	0	MW		BD	
Spreaders	2	GO		MWT	
Rotating mast	No			MCG	

FLOTATION AND STABILITY

Calculation method	RM estimated	SFFP	0.490	SAFP	8.690
Flotation Date	14/04/2021	FFM	1.316	FAM	0.984
Measurer		FF	1.323	FA	0.993
Comment		LCFcl	5.263	LCFsh	5.498
		SG	1.0000	HBI	1.124

INVENTORY

OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG
	SaS	Deductible	Sailor Services	20	6.25	0.00
			<i>Total deductible</i>	20	6.25	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>Comment</i>
1	0.13	0.70	1.22	2.32	3.20	25.97	18/01/2021	

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>
1	0.08	0.50	0.96	1.89	2.88	3.85	11.40	Yes	No	21.91	18/01/2021	
2	0.05	0.41	0.75	1.46	2.16	2.85	11.30	Yes	No	16.42	18/01/2021	

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>
A3	12.38	12.38	12.38	6.20	5.92	63.39	27/01/2022	

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>
1	11.90	10.80	11.35	5.75	5.86	98%	54.59	18/01/2021	