

BOAT Name SPORTHOTEL Sail Nr GER 6810	GPH 607.1	HULL Length Overall 11.300m Maximum Beam 3.758m Displacement 6,667kg Draft 2.178m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.119% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension IMSL 10.506m VCGD 0.278m Sink 22.34kg/mm RL 8.970m VCGM 0.219m WS 28.86m² LSM0 10.448m Displacement/Length ratio 5.8456
GENERAL Class DEHLER 38 C Designer JUDEL/VROLIJK Builder HANSE YACHTS Series 06/2012, CIN DE-DEH81014B313 Age 06/2012 Age Allowance 0.163% Offset File DEH38-C_DKDR.OFF - 28/05/2013 Measurement by RENKEN/STEINKE/BRO - 14/04/2016		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	590.5			661.3		
Time On Time	1.0160			1.0207		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	700.4	536.7	476.1	910.6	665.7	571.7
Time on Time	0.9637	1.2577	1.4177	0.7413	1.0140	1.1806

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1036.3	860.1	755.8	705.1	683.8	673.6	658.1
52°	673.9	565.7	506.2	484.0	476.3	472.4	465.5
60°	632.7	534.5	488.6	469.7	462.2	458.3	452.5
75°	599.1	512.2	476.8	457.2	443.3	435.8	429.9
90°	600.2	512.0	472.1	456.3	438.9	422.1	402.9
110°	620.6	511.9	469.0	444.0	423.8	412.4	393.9
120°	640.1	525.6	475.7	450.0	426.1	402.5	377.2
135°	710.0	576.9	502.8	468.6	445.7	422.5	377.3
150°	843.8	668.1	564.8	501.1	469.3	447.6	404.9
Run VMG	974.3	771.5	651.6	572.4	517.9	480.0	436.4

Selected Courses							
Windward / Leeward	1005.3	815.8	703.7	638.7	600.9	576.8	547.2
Circular Random	839.4	676.5	588.8	537.8	506.3	485.6	459.0
Ocean for PCS	1031.9	795.5	661.9	580.1	527.0	489.9	438.6
Non Spinnaker	889.7	712.1	615.3	558.2	522.7	499.4	469.9

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.5°	42.2°	42.1°	40.6°	39.5°	39.5°	39.2°
Beat VMG	3.47	4.19	4.76	5.11	5.26	5.34	5.47
52°	5.34	6.36	7.11	7.44	7.56	7.62	7.73
60°	5.69	6.74	7.37	7.66	7.79	7.86	7.96
75°	6.01	7.03	7.55	7.87	8.12	8.26	8.37
90°	6.00	7.03	7.63	7.89	8.20	8.53	8.94
110°	5.80	7.03	7.68	8.11	8.50	8.73	9.14
120°	5.62	6.85	7.57	8.00	8.45	8.94	9.54
135°	5.07	6.24	7.16	7.68	8.08	8.52	9.54
150°	4.27	5.39	6.37	7.18	7.67	8.04	8.89
Run VMG	3.69	4.67	5.53	6.29	6.95	7.50	8.25
Gybe Angles	144.7°	149.4°	151.6°	156.2°	172.4°	180.0°	180.0°



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2017
ORC International
Certificate

Rating Office

Offshore
Racing
Congress

Invalid for
Racing



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Certificate

Number **141804**
ORC Ref **GER30000500**
Issued On **17/07/2017**
VPP Ver. **2017 1.00**
Valid until **01/01/2018**

Crew Weight

Declared **695kg**
Default* **733kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Double H.GPH **610.9 0.9822**
Double H.OSN **595.5 1.0076**
Non Spin GPH **635.2 0.9446**
Non Spin OSN **617.3 0.9720**

Sails Limitations

Headsails **6** Spinnakers **4**

Class Division Length

CDL = **9.739**

Storm Sails Areas

Heavy Weather Jib **32.86**
Storm Jib (JL=10.14) **12.17**
Storm Trysail **14.14**

Owner

BOAT							
Name		SPORTHOTEL		Sail Nr	GER 6810		
File		GER6810		Data in	meters/kilograms		
RIG							
Forestay Tension		Aft		Spreaders		2	
Inner Stay		None Fitted		Runners		0	
Carbon Mast		Yes		Jumper Struts		None	
Taper Hollows		No		Jib Furler		No	
Fiber Riggig		No		Main Furler		No	
Lenticular Riggig		No		Without Backstay		No	
Articulated Bowsprit		No					
P	15.250	E	5.300	MDT1	0.112	MW	0.214
IG	15.530	J	4.370	MDL1	0.214	GO	0.234
ISP	15.800	SFJ	0.000	MDT2	0.070	BD	0.218
BAS	1.690	SPL	4.470	MDL2	0.162	MWT	127.50
FSP	0.060	TPS		TL	1.400	MCG	5.380

MIZZEN RIG AND SAILS	
	N/A

COMMENTS	
Mast & Boom manufacturer: Pauger	
WITHOUT COCKPIT TABLE	

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date		14/04/2016		SG	1.0010
FFM	1.412	FF	1.419	SFFP	0.455
FAM	1.137	FA	1.145	SAFP	11.081
W1	80.0	PD1	462.7	WD	11.610
W2	80.0	PD2	467.3	GSA	1.0
W3	80.0	PD3	469.2	RSA	1.0
W4	80.0	PD4	457.8	PLM	9000.0
LCF from stem on CL / on sheer				6.081 / 6.337	
Maximum beam station from stem				7.681	
RM Measured				157.6kg·m	
RM Default				178.5kg·m	
Limit of positive stability / Stab.Index				112.3° / 114.1	
Freeboard at mast at 4.370				1.335	

PROPELLER					
Installation	Strut		PRD		0.415
Type	Folding 2 blades		PBW		0.123
Twin Screw	No		PIPA		0.0039
ST1	0.065	ST3	0.180	ST5	0.315
ST2	0.178	ST4	0.112	EDL	1.780

MOVEABLE BALLAST
N/A

CENTERBOARD	
	N/A

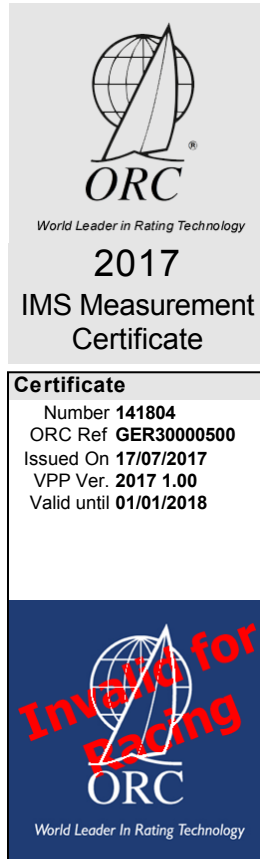
SAILS (Maximum Areas)							
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)
	0.240	1.09	1.89	3.29	4.35	46.94	47.74
Symmetric	SLU	SLE	SL	SHW	SFL	Formula	
	15.90	15.90	15.90	7.45	7.32	$P/8 \cdot (E + 2 \cdot MQW + 2 \cdot MHW + 1.5 \cdot MTW + MUW + 0.5 \cdot MHB)$	
Asymmetric							
Not Available							

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.11	0.78	1.37	2.42	3.46	4.57	15.64	37.40	Y		16/07/2014	Carbon	C2.1
0.18	0.75	1.32	2.35	3.44	4.56	15.60	36.84	Y		17/05/2016	Carbon	C1 JIB
0.11	0.69	1.25	2.28	3.40	4.56	15.67	36.26	Y		17/05/2013	Carbon	C2 JIB
0.08	0.62	1.17	2.15	3.21	4.31	15.52	33.81	Y		15/05/2013	Carbon	C3
0.10	0.60	1.13	2.09	3.15	4.27	13.95	29.81	Y		24/04/2014	Carbon	C3.5

MEASUREMENT INVENTORY				
Measurer STEINKE				
Date 14/04/2016				
Comment GREIFSWALD				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>		<i>Model</i>
1	Engine	Volv o		D1-30
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	

<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn</i>	<i>Description</i>
2	Tank	Water	Plastic	280.0	2.20	0.70	0-0	
1	Tank	Diesel	Plastic	160.0	9.02	-0.10	7-9	7 LITER

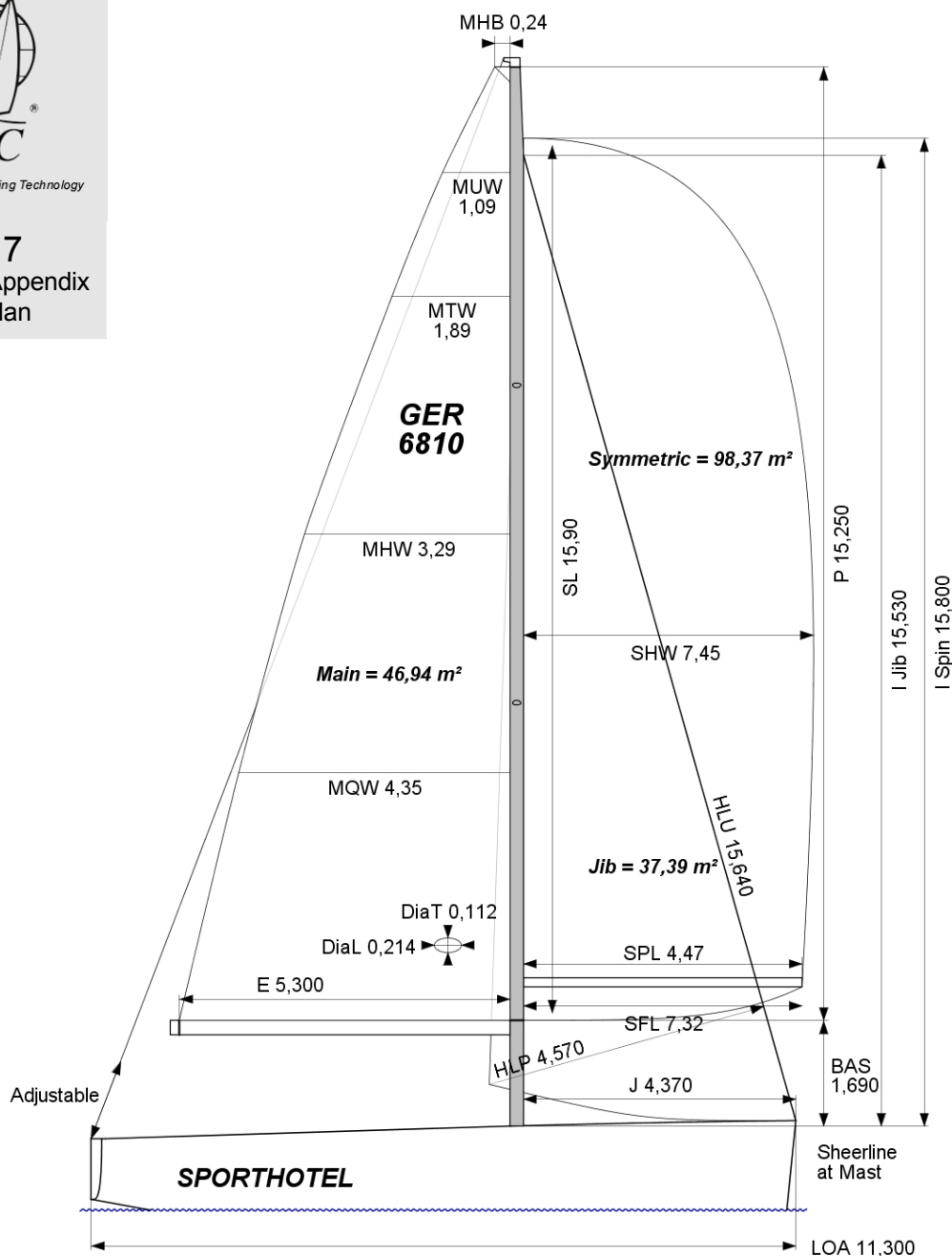
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>
2	Battery	25.0	8.14	1.84	Motor
1	Battery	35.0	4.60	1.76	Service
1	Misc	11.0	8.97	-0.13	BOILER





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2017 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
83773	0.240	1.09	1.89	3.29	4.35	46.94	RAV	16/03/2016	ELVSTROEM	Carbon	MAIN RACE

HEADSAILS (5)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
88647	0.11	0.78	1.37	2.42	3.46	4.57	15.64	105%	37.40	Y		SCHILLIN	16/07/2014	ELVSTROEM	Carbon	C2.1
92042	0.18	0.75	1.32	2.35	3.44	4.56	15.60	104%	36.84	Y		PAULSEN	17/05/2016	ELVSTROEM	Carbon	C1 JIB
83760	0.11	0.69	1.25	2.28	3.40	4.56	15.67	104%	36.26	Y		HOLTZ	17/05/2013	ELVSTROEM	Carbon	C2 JIB
83772	0.08	0.62	1.17	2.15	3.21	4.31	15.52	99%	33.81	Y		HOLTZ	15/05/2013	ELVSTROEM	Carbon	C3
89239	0.10	0.60	1.13	2.09	3.15	4.27	13.95	98%	29.81	Y		HOLTZ	24/04/2014	ELVSTROEM	Carbon	C3.5

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
148810	15.90	15.90	15.90	7.45	7.32	98.37	STEINKE	28/05/2015	ELVSTROEM	Nylon	86861 re measured
90742	15.39	15.39	15.39	7.75	7.35	98.37	JAL	29/04/2016	ELVSTROEM	Nylon	S2.2
83774	15.35	15.35	15.35	7.76	7.36	98.24	HOLTZ	22/04/2014	ELVSTROEM	Nylon	S1
83713	15.33	15.33	15.33	7.72	7.25	97.42	HOLTZ	22/04/2014	ELVSTROEM	Nylon	S2

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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