

BOAT
Name PUMPERNICKEL Sail Nr GER 4551

GPH
670.4

HULL					
Length Overall	10.625 m				
Maximum Beam	3.548 m				
Displacement	5,738 kg				
Draft	1.947 m				
IMS Reg. Division	Cruiser/Racer				
Dynamic Allowance	0.608%				
Fwd Accommodation	Yes				
Hull Construction	Cored				
Carbon Rudder	No				
Crew Arm Extension	0.00				
IMS L	9.036	VCGD	0.121	VCGM	0.099
Sink	17.43 kg/mm	Wetted Area	24.03 m²		



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GENERAL
Class BALTIC 35
Designer JUDEL/VROLIJK
Builder BALTIC
Series 01/1984
Age 05/1996
Age Allowance 0.975%
Offset File BLT35.OFF - 26/6/2013 14:22:02
Measurement by STILL - 30/05/1996

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	670.4			746.7		
Time On Time	0.8950			0.9040		
Performance Line	PLT	PLD		PLT	PLD	
	0.794	110.3		0.948	300.4	
Triple Number	Low	Medium	High	Low	Medium	High
	0.8749	1.1393	1.2807	0.6643	0.9245	1.0731

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Racing
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1138.2	916.2	815.1	768.7	740.9	723.3	716.2
52°	725.3	602.0	559.5	537.6	525.4	517.2	508.6
60°	672.2	579.2	541.6	519.3	507.5	499.7	490.8
75°	630.4	562.8	526.7	504.0	486.5	475.8	465.5
90°	627.9	553.3	515.8	490.6	475.0	467.2	449.2
110°	655.4	567.5	527.4	498.3	473.7	454.1	430.5
120°	706.3	586.1	540.2	509.1	483.6	461.1	425.6
135°	821.0	644.6	571.5	533.1	505.1	481.6	442.0
150°	979.9	760.6	629.1	569.3	533.3	506.5	463.7
Run VMG	1131.5	878.3	725.8	633.0	578.6	542.5	493.1

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Selected Courses							
Windward / Leeward	1153.8	912.3	783.1	710.6	667.6	640.0	611.1
Circular Random	927.6	746.7	650.0	594.0	559.7	537.4	509.7
Ocean for PCS	992.2	781.2	664.6	594.2	548.7	516.8	472.1
Non Spinnaker	981.0	783.3	676.2	613.6	575.0	550.0	519.5

Crew Weight	
Declared	607 kg
Default*	607 kg
Non Manual Pwr	No

Special Scoring		
	ToD	ToT
D. Hand OSN	672.8	0.8918
Non Spin. OSN	698.5	0.8590
N/S Perf. Line	82.0	0.723

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	45.4°	44.8°	40.8°	38.5°	37.1°	36.4°	36.9°
Beat VMG	3.16	3.93	4.42	4.68	4.86	4.98	5.03
52°	4.96	5.98	6.43	6.70	6.85	6.96	7.08
60°	5.36	6.22	6.65	6.93	7.09	7.20	7.33
75°	5.71	6.40	6.83	7.14	7.40	7.57	7.73
90°	5.73	6.51	6.98	7.34	7.58	7.71	8.01
110°	5.49	6.34	6.83	7.23	7.60	7.93	8.36
120°	5.10	6.14	6.66	7.07	7.44	7.81	8.46
135°	4.38	5.58	6.30	6.75	7.13	7.48	8.14
150°	3.67	4.73	5.72	6.32	6.75	7.11	7.76
Run VMG	3.18	4.10	4.96	5.69	6.22	6.64	7.30
Gybe Angles	144.1°	147.5°	151.5°	165.6°	173.0°	174.9°	175.8°

Sails Limitations		
Genoas	Jibs	Spinnakers
3	2	3
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	21.47
Storm Jib (JL=8.20)	7.95
Storm Trysail	10.09

Owner

BOAT	
Name PUMPERNICKEL	Sail Nr GER 4551
File GER4551.dxt	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 1		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 12.650	E 4.560	MDT1 0.115	TL 1.650
IG 12.545	J 3.850	MDL1 0.183	MWT 0.00
ISP 12.615	SFJ 0.000	MDT2 0.105	MCG 0.000
SPS 3.575	SPL 3.850	MDL2 0.105	CPW 1.960
BAS 1.585	TPS 0.000	MW 0.183	BD 0.184
BAL 0.150	FSP 0.058	GO 0.203	BWT 0.00

MIZZEN RIG AND SAILS	
N/A	

COMMENTS
BAU NR 43

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 30/05/1996		SG 1.0020	
FFM 1.150	FF 1.161	SFFP 0.658	
FAM 0.880	FA 0.886	SAFP 9.501	
W1 15.000	PD1 39.5	WD 10.990	
W2 30.000	PD2 85.0	GSA 20.0	
W3 45.000	PD3 115.5	RSA 20106.	
W4 60.000	PD4 168.0	PLM 1600.0	
LCF from stem on CL / on sheer		5.834 / 0.000	
Maximum beam station from stem		6.404	
RM Measured / Default		109.2 / 110.3	
Limit of positive stability / Stab.Index		108.3° / 109.4	
Freeboard at mast at 3.850		1.016	

PROPELLER			
Installation Shaft	PRD 0.440		
Type Folding	PBW 0.105		
Twin Screw No	PIPA 0.0058		
PSA 18.000	PHL 0.126	ST3 0.138	ESL 0.850
PSD 0.030	ST1 0.032	ST4 0.060	
PHD 0.080	ST2 0.108	ST5 0.210	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



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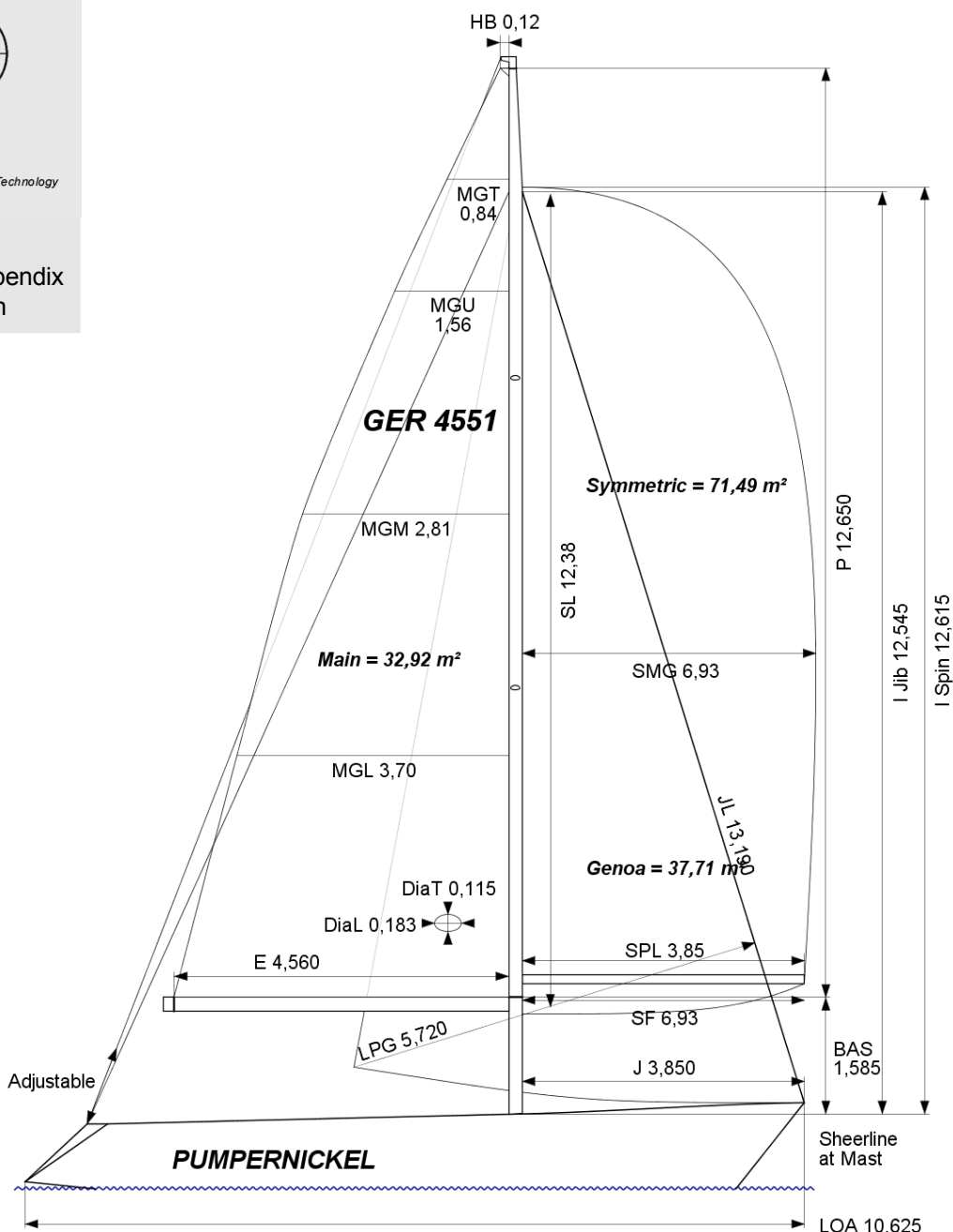
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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0.120	0.84	1.56	2.81	3.70	32.92	33.46	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0.00	0.72	1.43	2.86	4.29	13.19	5.72	37.71	
	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)								
Symmetric	SL	SMG	SF						
	12.38	6.93	6.93	71.49					
	SL · (SF + 4 · SMG) / 6								
Asymmetric	Not Available								
Code Zero	Not Available								



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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.120	0.84	1.56	2.81	3.70	32.92					* Copied from legacy

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlap	Area	Measurer	Meas.Date	Manufacture	Material	Comment
0	0.00	0.00	0.00	0.00	0.00	5.72	0.00	149%	37.71					generated_from_old_

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
0	12.38	6.93	0.00	71.49					generated_from_old_dataset

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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