

BOAT Name MISTY Sail Nr GER 7006	GPH 657,1	HULL Length Overall 11,160m Maximum Beam 2,726m Displacement 4.227kg Draft 1,804m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,259% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Crew Arm Extension
GENERAL Class LUFFE 37 Designer JOERGENSEN Builder LUFFE YACHTS Series 01.1980 Age 01.2003 Age Allowance 0,487% Offset File LUFF37.OFF - 23.06.1993 13:36:42 Measurement by BUJELL - 20.04.2015		IMSL 9,261m VCGD -0,064m Sink 14,96kg/mm RL 7,373m VCGM -0,034m WS 20,87m² LSMO 9,265m Displacement/Length ratio 5,3149



World Leader in Rating Technology

2017
ORC International
Certificate

Rating Office
DEUTSCHER SEGLER-
VERBAND
GRUENDGENSSTR 18
22309 HAMBURG
technik@dsv.org



SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	640,2			716,9		
Time On Time	0,9372			0,9416		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	754,4	580,8	521,6	984,3	719,8	626,6
Time on Time	0,8947	1,1621	1,2941	0,6858	0,9377	1,0773

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1115,9	928,8	824,9	777,7	757,6	747,7	745,1
52°	725,5	609,1	549,6	529,5	521,7	517,8	515,6
60°	681,1	573,9	530,2	512,7	505,3	501,4	498,8
75°	645,4	550,6	515,9	497,5	484,9	477,4	471,6
90°	648,8	550,9	515,0	495,3	478,9	463,5	443,9
110°	660,7	545,7	504,5	481,8	469,1	457,3	437,0
120°	682,3	558,0	510,6	484,2	458,8	441,5	419,1
135°	761,2	618,6	533,2	501,1	477,1	451,6	400,1
150°	917,0	721,6	601,3	531,1	501,6	479,1	431,8
Run VMG	1058,8	833,6	694,3	603,2	547,1	511,9	467,1

Selected Courses	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1087,4	881,2	759,6	690,4	652,4	629,8	606,1
Circular Random	905,6	730,5	637,2	583,7	551,5	531,1	506,0
Ocean for PCS	1116,3	860,7	717,1	630,0	574,2	535,9	483,3
Non Spinnaker	960,2	769,4	666,3	606,2	569,6	546,1	517,7

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43,5°	42,4°	42,6°	41,6°	40,8°	40,3°	40,5°
Beat VMG	3,23	3,88	4,36	4,63	4,75	4,81	4,83
52°	4,96	5,91	6,55	6,80	6,90	6,95	6,98
60°	5,29	6,27	6,79	7,02	7,12	7,18	7,22
75°	5,58	6,54	6,98	7,24	7,42	7,54	7,63
90°	5,55	6,53	6,99	7,27	7,52	7,77	8,11
110°	5,45	6,60	7,14	7,47	7,67	7,87	8,24
120°	5,28	6,45	7,05	7,43	7,85	8,15	8,59
135°	4,73	5,82	6,75	7,18	7,55	7,97	9,00
150°	3,93	4,99	5,99	6,78	7,18	7,51	8,34
Run VMG	3,40	4,32	5,19	5,97	6,58	7,03	7,71
Gybe Angles	145,9°	150,1°	148,0°	157,4°	180,0°	180,0°	180,0°

Certificate
Number **141917**
ORC Ref **GER30000201**
Issued On **03.04.2017**
VPP Ver. **2017 1.00**
Valid until **01.01.2018**

Crew Weight
Declared **420kg**
Default* **617kg**
Non Manual Pwr

Special Scoring

	ToD	ToT
Double H.GPH	662,2	0,9060
Double H.OSN	646,6	0,9279
Non Spin GPH	687,8	0,8723
Non Spin OSN	668,8	0,8971

Sails Limitations

Headsails	Spinnakers
1	3

Class Division Length
CDL = **8,317**

Storm Sails Areas

Heavy Weather Jib	18,97
Storm Jib (JL=7,71)	7,03
Storm Try sail	7,98

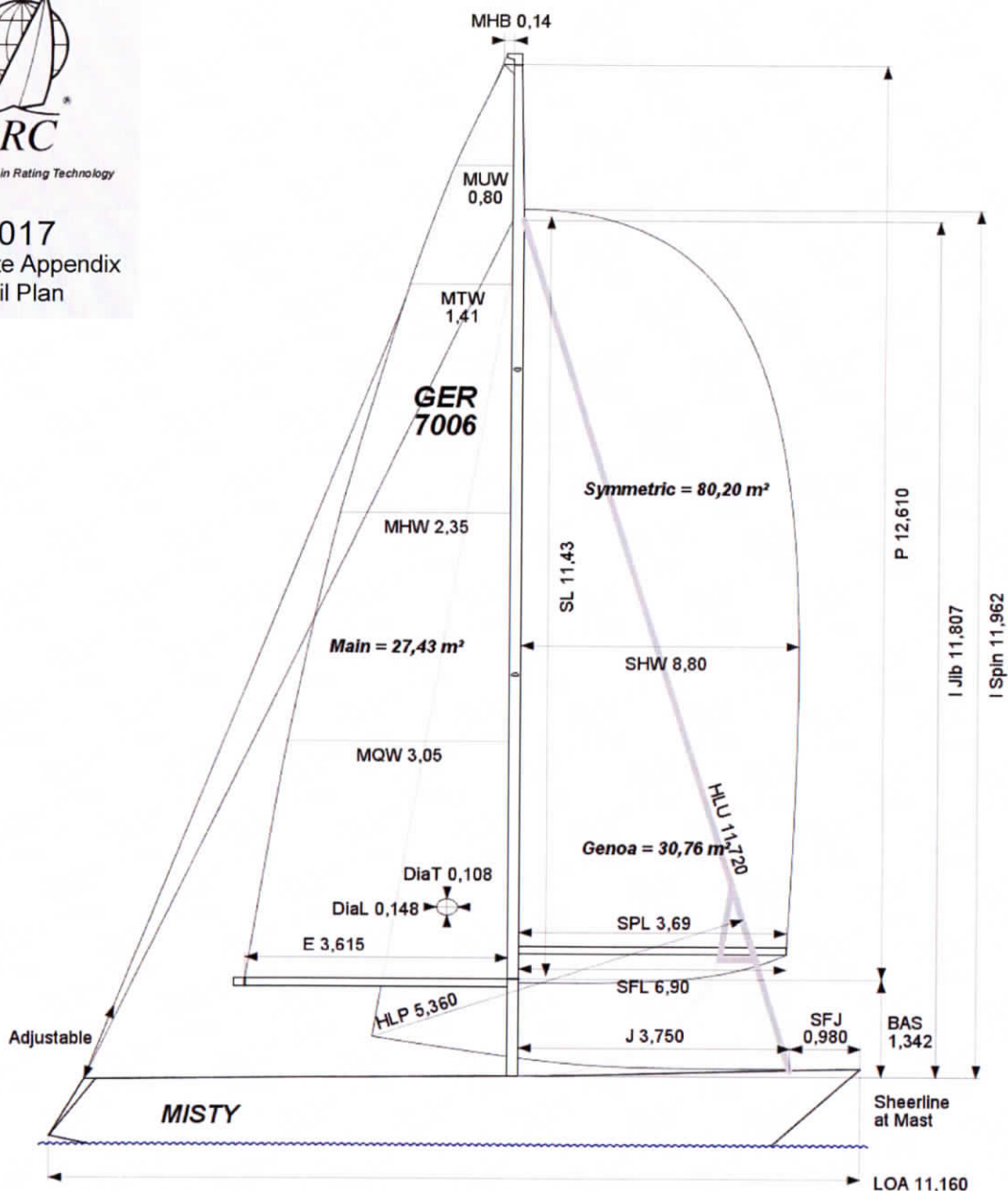
Owner
MICHAEL KOCK
AM SPORTPLATZ 4
22952 LÜTJENSEE
YCL

I certify that I understand my responsibilities under ORC Rules and Regulations
Signature



World Leader in Rating Technology

2017
Certificate Appendix
Sail Plan



SAILS INVENTORY

MANSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
155081	0,140	0,80	1,41	2,35	3,05	27,43	BALSER	11.06.2014	NORTH	Polyester	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
155088	0,08	0,64	1,27	2,57	3,93	5,36	11,72	143%	30,76			BALSER	10.06.2014	NORTH	Carbon	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
155084	11,43	11,43	11,43	8,80	6,90	80,20	BALSER	10.06.2014	NORTH	Nylon	

ASYMMETRIC SPINNAKERS (0)

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

EOAT	
Name MISTY	Sail Nr GER 7006
File GER7006	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 1
Carbon Mast	Jumper Struts None
Taper Hollows	Jib Furler Yes
Fiber Rigging	Main Furler
Lenticular Rigging	Without Backstay No
Articulated Bowsprit No	
P 12,610	E 3,615 MDT1 0,108 MW 0,148
IG 11,807	J 3,750 MDL1 0,148 GO 0,163
ISP 11,962	SFJ 0,980 MDT2 0,094 BD 0,110
BAS 1,342	SPL 3,690 MDL2 0,103 MWT 123,00
FSP 0,058	TPS 0,000 TL 2,052 MCG 4,450

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 20.04.2015		SG 1,0050	
FFM 1,035	FF 1,041	SFFP 1,179	
FAM 0,896	FA 0,902	SAFP 10,520	
W1 50,0	PD1 591,0	WD 10,215	
W2 50,0	PD2 591,0	GSA 1,0	
W3 50,0	PD3 591,0	RSA 1,0	
W4 50,0	PD4 591,0	PLM 9000,0	
LCF from stem on CL / on sheer		6,082 / 6,211	
Maximum beam station from stem		6,279	
RM Measured		68,1kg·m	
RM Default		71,2kg·m	
Limit of positive stability / Stab.Index		119,7° / 125,1	
Freeboard at mast at 4,730		0,948	



World Leader in Rating Technology

2017

IMS Measurement Certificate

Certificate

Number **141917**
 ORC Ref **GER30000201**
 Issued On **03.04.2017**
 VPP Ver. **2017 1.00**
 Valid until **01.01.2018**



MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Strut	PRD 0,397
Type Folding 2 blades	PBW 0,098
Twin Screw	PIPA 0,0032
ST1 0,049	ST3 0,171 ST5 0,301
ST2 0,170	ST4 0,098 EDL 2,630

COMMENTS

MOVEABLE BALLAST
N/A

CENTERBOARD
N/A

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	
	0,140	0,80	1,41	2,35	3,05	
Symmetric	SLU	SLE	SL	SHW	SFL	
	11,43	11,43	11,43	8,80	6,90	
Asymmetric	Not Available					

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HNB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,08	0,64	1,27	2,57	3,93	5,36	11,72	30,76			10.06.2014	Carbon	

MEASUREMENT INVENTORY					
Measurer BUELL 15					
Date 20.04.2015					
Comment					
Id	Item	Weight	Distance	VCG	Description
1	Engine	Volvo			MD2020

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
2	Tank	FUEL	ST	80,0	9,63	0,00	0-0	
3	Tank	W-WATER	ST	10,0	8,05	0,04	0-0	
4	Tank	GAZ	ST	10,0	10,30	0,25	0-0	
1	Tank	WATER	ST	80,0	5,73	-0,16	0-0	
Id	Item	Weight	Distance	VCG	Description			
2	Battery	25,0	7,80	0,04				
3	Battery	25,0	7,80	0,04				
1	Battery	25,0	7,18	0,04				