



BOAT Name EXTREME Sail Nr LTU 1620	GPH 616,4	HULL Length Overall 10,600m Maximum Beam 3,250m Displacement 4 687kg Draft 2,185m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,034% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-35 OD Designer Jeppessen Builder X Yachts Series 09-2005 Age 05-2008 Age Allowance 0,358% Offset File X35.off - 2012-07-17 13:10:56 Measurement by G. Misiunas - 03-05-2015		IMSL 9,533m VCGD 0,045m Sink 17,77kg/mm RL 8,892m VCGM 0,024m WS 23,21m² LSM0 9,373m Displacement/Length ratio 5,6919



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2016
ORC International
Certificate

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	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	599,3			668,1		
Time On Time	1,0012			1,0103		
Performance Line	0,686	42,1		0,866	212,2	
Triple Number	Low 0,9533	Medium 1,2365	High 1,3949	Low 0,7357	Medium 1,0057	High 1,1661

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1046,3	868,1	759,6	708,1	686,9	676,3	661,7
52°	681,5	572,1	516,9	496,5	489,3	485,4	478,5
60°	640,4	543,2	502,3	483,6	475,2	470,7	464,1
75°	606,7	523,5	491,7	470,7	454,3	445,4	438,2
90°	609,2	525,0	489,1	471,9	451,8	432,5	410,9
110°	629,3	523,5	484,6	456,4	436,4	423,5	401,7
120°	647,8	535,0	491,0	463,0	434,5	408,7	382,5
135°	716,0	581,3	513,3	482,2	456,2	429,4	375,9
150°	847,0	673,3	569,6	511,7	482,9	458,7	410,0
Run VMG	978,0	777,4	657,0	580,4	527,3	493,5	446,2

Certificate
Number **LT1620**
ORC Ref **ltu00000638**
Issued On **2016-08-16**
VPP Ver. **2016 1.01**
Valid until **2016-12-31**

Crew Weight
Declared **740kg**
Default* **628kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	646,7	0,9278
Non Spin OSN	628,1	0,9553
N/S Perf. Line	15,7	0,613

Selected Courses							
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1012,1	822,8	708,3	644,3	607,1	584,9	553,9
Circular Random	849,6	686,0	598,1	546,8	515,0	493,6	465,0
Ocean for PCS	1041,3	804,5	670,8	589,0	535,8	498,5	446,3
Non Spinnaker	903,3	724,2	626,7	569,2	533,4	509,6	478,6

Sails Limitations

Headsails	Spinnakers
6	3

Class Division Length
CDL = **9,214**

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	43,4°	42,2°	41,6°	39,6°	38,5°	37,9°	37,4°
Beat VMG	3,44	4,15	4,74	5,08	5,24	5,32	5,44
52°	5,28	6,29	6,96	7,25	7,36	7,42	7,52
60°	5,62	6,63	7,17	7,44	7,58	7,65	7,76
75°	5,93	6,88	7,32	7,65	7,92	8,08	8,21
90°	5,91	6,86	7,36	7,63	7,97	8,32	8,76
110°	5,72	6,88	7,43	7,89	8,25	8,50	8,96
120°	5,56	6,73	7,33	7,78	8,29	8,81	9,41
135°	5,03	6,19	7,01	7,47	7,89	8,38	9,58
150°	4,25	5,35	6,32	7,03	7,45	7,85	8,78
Run VMG	3,68	4,63	5,48	6,20	6,83	7,30	8,07
Gybe Angles	145,0°	149,3°	151,1°	158,0°	180,0°	180,0°	180,0°

Storm Sails Areas

Heavy Weather Jib	28,80
Storm Jib (JL=9,49)	10,66
Storm Trysail	10,58

Owner
Aistis Kalanavicius
Ugnies 1
Noreikiskiu km
Kauno raj.

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

Signature

BOAT	
Name EXTREME	Sail Nr LTU 1620
File Extreme LTU1620	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 03-05-2015		SG 1,0100
FFM 1,290	FF 1,295	SFFP 0,075
FAM 0,980	FA 0,983	SAFP 10,275
W1 131,60	PD1 88,0	WD 4,120
W2 75,700	PD2 46,3	GSA 6,0
W3 131,60	PD3 80,3	RSA 6,0
W4 75,700	PD4 56,0	PLM 2000,0
LCF from stem on CL / on sheer		5,939 / 6,144
Maximum beam station from stem		7,300
RM Measured		112,5kg·m
RM Default		121,5kg·m
Limit of positive stability / Stab.Index		117,1° / 118,5
Freeboard at mast at 4,185		1,091

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
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 13,290	E 4,550	MDT1 0,115	MW 0,174
IG 14,500	J 4,185	MDL1 0,175	GO 0,204
ISP 14,530	SFJ 0,000	MDT2 0,115	BD 0,220
BAS 1,745	SPL 4,170	MDL2 0,125	MWT 156,00
FSP 0,070	TPS	TL 1,300	MCG 4,600

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0,420	
Type Folding 2 blades	PBW 0,128	
Twin Screw No	PIPA 0,0033	
ST1 0,042	ST3 0,180	ST5 0,255
ST2 0,180	ST4 0,112	EDL 2,390


COMMENTS

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	
	0,350	1,08	1,80	2,97	3,84	
						Area Area (r) Formula
						36,76 37,53 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	
	14,35	14,35	14,35	7,69	7,36	
						91,17 SL · (SFL + 4·SHW) / 6
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
0,13	0,67	1,25	2,31	3,36	4,45	14,56	33,38	Y		26-04-2016	Twaron	
0,11	0,67	1,24	2,32	3,36	4,42	14,49	33,14	Y		26-04-2016	Twaron	
0,10	0,46	0,90	1,79	2,78	3,88	14,07	26,29	Y		03-05-2015	Unknow	




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IMS Measurement Certificate

Certificate

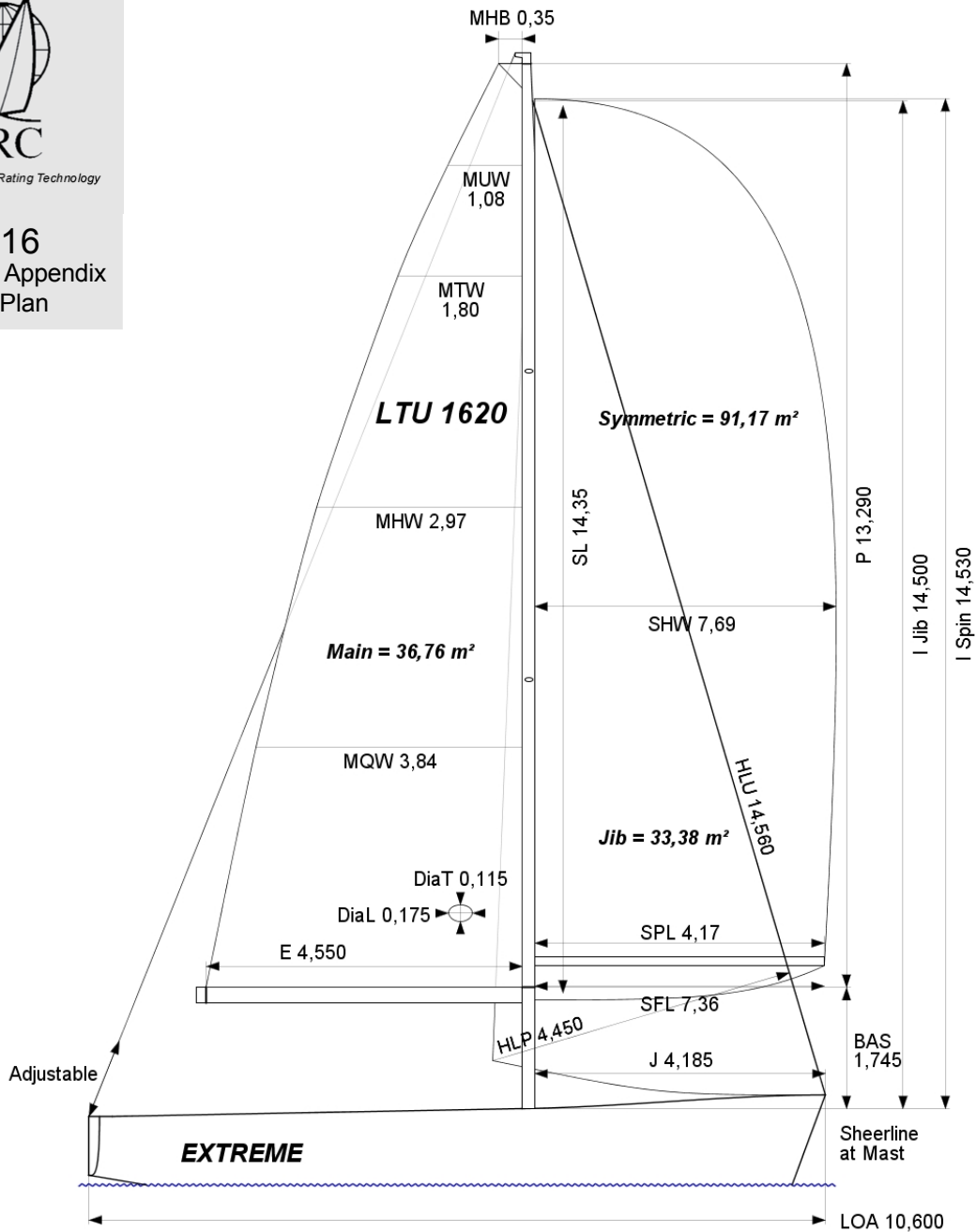
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Certificate Appendix
Sail Plan



SAILS INVENTORY

MANSAIL																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0,350	1,08	1,80	2,97	3,84	36,76	SLO03 Gale	26-04-2016	One Sails	Twaron	Comment					
HEADSAILS																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,13	0,67	1,25	2,31	3,36	4,45	14,56	106%	33,38	Y		SLO03	26-04-2016	One Sails	Twaron	
1	0,11	0,67	1,24	2,32	3,36	4,42	14,49	106%	33,14	Y		SLO03	26-04-2016	One Sails	Twaron	
J7	0,10	0,46	0,90	1,79	2,78	3,88	14,07	93%	26,29	Y		G.	03-05-2015		Unknow	
SYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	14,35	14,35	14,35	7,69	7,36	91,17	SLO03 Gale	26-04-2016	One Sails	Nylon	Comment					
2	13,90	13,90	13,90	5,90	6,89	70,64	SLO03 Gale	26-04-2016	One Sails	Nylon						
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				