



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office
Žemaites 6
LT-03117 Vilnius
Lithuania
+370 650 28392



Certificate

Number **LT420**
Issued On **2016-05-26**
ORC Ref **ltu00000347**
VPP Ver. **2016 1.01**
Valid until **2016-12-31**

Crew Weight

Declared **440kg**
Default* **479kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	694,4	0,8641
Non Spin OSN	674,8	0,8892
N/S Perf. Line	7,2	0,561

Sails Limitations

Headsails **1** Spinnakers **3**

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 55,90**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length

CDL = **7,626**

Stability

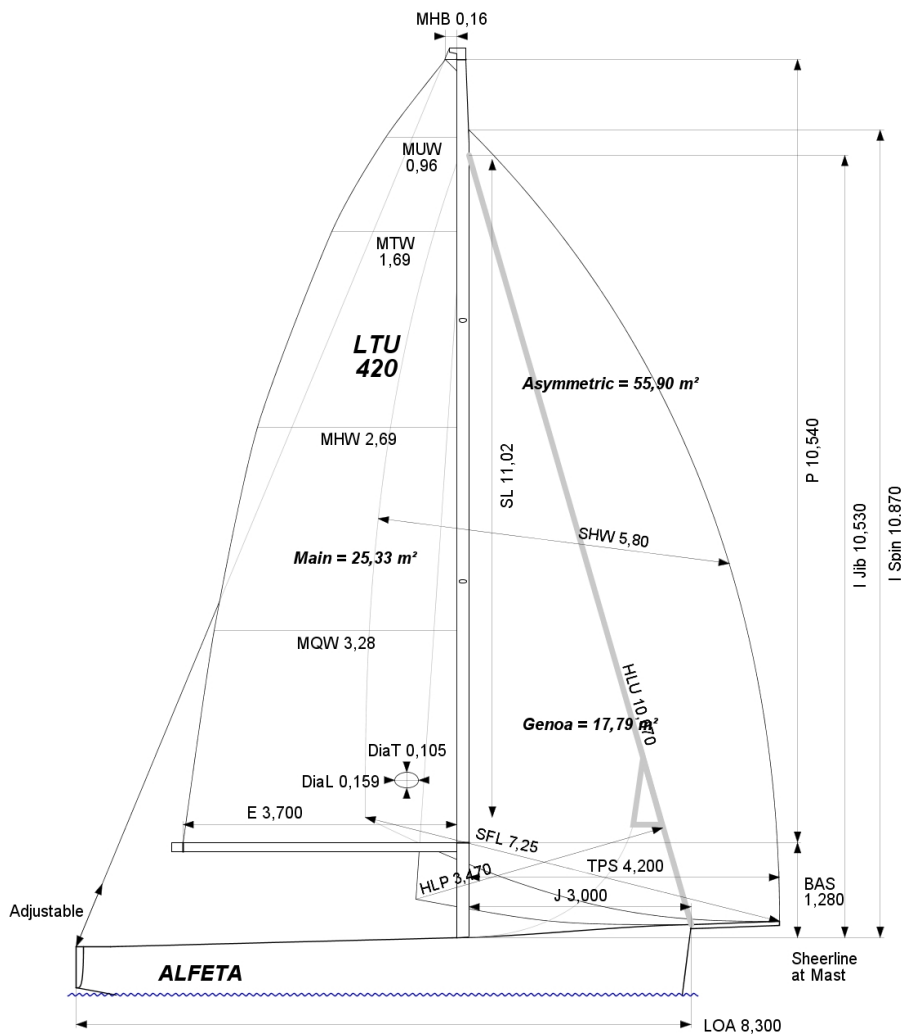
LPS (Measured): **107,0°**
Stability Index: **101,6**
OSR Category: **N/A**

Owner

UAB ALFETA
Nemajūnų g. 27, Kaunas

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

Signature



BOAT		GPH		HULL	
Name Alfeta Sail Nr LTU-420		658,9		Data File Alfeta LOA 8,300m	Offset File RS280.OFF MB 2,656m
CLASS		IMSL 7,950m VCGD -0,016m Sink 11,59kg/mm		Displacement 1 823kg Draft 1,721m	
Class RS 280		IMS Division Sportboat Dynamic All. 0,186%		Fwd Accom. Yes Construction Cored	
Designer UAB Plastolitas		Fiber Rigging No Aramid Core No		Crew Arm Ex Carbon Rudder No	
Builder UAB Plastolitas		Light Stanchions No		Displacement/Length ratio 3,9103	
Series 06-1998		Water Ballast 0 Trim Tab No		LSM0 7,754m	
Age Date 04-2002		CENTERBOARD		N/A	
Age Allowance 0,488%		SCORING OPTIONS			
COMMENTS		OFFSHORE		INSHORE	
PROPELLER		COASTAL / LONG DISTANCE		WINDWARD / LEEWARD	
Type No Propeller		Time On Distance 642,8		Time On Time 0,9334	
		Performance Line		Performance Line	
		PLT 0,634 PLD 35,3		PLT 0,909 PLD 297,2	
		Low Medium High		Low Medium High	
		0,8973 1,1533 1,3045		0,6899 0,9256 1,0506	
		Triple Number		Triple Number	

BOAT	
Name Afeta	Sail Nr LTU-420
File Afeta LTU420.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 06-07-2011	SG 1,0000	
FFM 0,926	FF 0,936	SFFP 0,500
FAM 0,649	FA 0,652	SAFP 7,839
W1 33,500	PD1 248,0	WD 7,510
W2 33,500	PD2 249,0	GSA 50,2
W3 33,500	PD3 248,0	RSA 5407,9
W4 33,500	PD4 250,0	PLM 2500,0
LCF from stem on CL / on sheer		4,468 / 4,608
Maximum beam station from stem		6,000
RM Measured		43,8kg·m
RM Default		47,5kg·m
Limit of positive stability / Stab.Index		107,0° / 101,6
Freeboard at mast at 3,000		0,773



ORC
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2016
Measurements
Datasheet

RIG				
Forestay Tension Aft	Spreaders 2			
Inner Stay None Fitted	Runners 0			
Carbon Mast No	Jumper Struts None			
Taper Hollows Yes	Jib Furler Yes			
Fiber Rigging No	Main Furler No			
Lenticular Rigging No	Without Backstay No			
Articulated Bowsprit No				
P 10,540	E 3,700	MDT1 0,105	MW 0,159	
IG 10,530	J 3,000	MDL1 0,159	GO 0,169	
ISP 10,870	SFJ 0,000	MDT2 0,105	BD 0,130	
BAS 1,280	SPL 0,000	MDL2 0,120	MWT 81,00	
FSP 0,040	TPS 4,200	TL 1,122	MCG 4,480	

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MIZZEN RIG AND SAILS
N/A

PROPELLER
Type No Propeller

COMMENTS

MOVEABLE BALLAST
N/A

CENTERBOARD
N/A

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,160	0,96	1,69	2,69	3,28	25,33	26,13	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	11,98	10,05	11,02	5,80	7,25	55,90	AS · (SFL + 4·SHW) / 6		

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
					3,47	10,07	17,79				Unknow	
					3,48	10,03	17,77				Unknow	

MEASUREMENT INVENTORY				
Measurer V.Gricius				
Date 06-07-2011				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
B/N	Ancher	9,0	3,30	
B/N	Chain	6,0	3,60	
B/N	Feels	10,0	3,70	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
B/N	Battery	10,0	3,20	



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2016

ORC Club Certificate Appendix

BOAT

Name **Alfeta** Certificate Number **LT420**
 Sail Nr **LTU-420** Issued On **2016-05-26**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1146,9	944,4	824,9	781,6	764,8	757,3	754,0
52°	739,2	616,1	560,7	543,7	536,3	532,3	524,8
60°	689,7	584,5	543,5	524,6	515,8	510,6	499,2
75°	648,4	563,0	528,8	498,4	479,2	470,0	462,9
90°	642,5	552,6	518,0	495,1	465,6	439,2	421,3
110°	643,7	551,2	508,9	465,7	442,0	421,4	391,7
120°	665,8	561,9	519,4	476,2	432,1	400,0	363,7
135°	743,9	603,3	544,7	507,1	466,8	426,0	343,3
150°	879,8	698,6	595,9	550,7	521,2	490,6	411,6
Run VMG	1015,9	806,7	688,1	633,7	581,0	543,0	475,3

Selected Courses

Windward / Leeward	1081,4	875,5	756,5	707,7	672,9	650,1	614,6
Circular Random	904,7	731,9	639,7	585,9	551,7	527,8	493,0
Ocean for PCS	1111,7	860,1	718,4	630,9	572,2	528,9	464,1
Non Spinnaker	971,0	777,8	672,9	611,0	572,1	545,6	509,4

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	44,1°	43,7°	41,6°	39,7°	39,4°	39,2°	39,9°
Beat VMG	3,14	3,81	4,36	4,61	4,71	4,75	4,77
52°	4,87	5,84	6,42	6,62	6,71	6,76	6,86
60°	5,22	6,16	6,62	6,86	6,98	7,05	7,21
75°	5,55	6,39	6,81	7,22	7,51	7,66	7,78
90°	5,60	6,51	6,95	7,27	7,73	8,20	8,55
110°	5,59	6,53	7,07	7,73	8,14	8,54	9,19
120°	5,41	6,41	6,93	7,56	8,33	9,00	9,90
135°	4,84	5,97	6,61	7,10	7,71	8,45	10,49
150°	4,09	5,15	6,04	6,54	6,91	7,34	8,75
Run VMG	3,54	4,46	5,23	5,68	6,20	6,63	7,57
Gybe Angles	144,5°	147,8°	149,3°	151,5°	176,0°	177,8°	141,4°