

BOAT Name TEGU Sail Nr LTU 2235	GPH 608.7	HULL Length Overall 10.600m Maximum Beam 3.250m Displacement 4,605kg Draft 2.226m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-35 OD Designer N. Jeppesen Builder X Yachts Series 09/2005 Age 04/2008 Age Allowance 0.487% Offset File x35ELB.off - 10/07/2019 08:16:28 Measurement by - 06/06/2017		IMSL 9.493m VCGD -0.010m Sink 17.75kg/mm RL 9.068m VCGM -0.027m WS 23.31m² LSM0 9.318m Displacement/Length ratio 5.6920



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	592.4			659.8		
Time on Time	1.0128			1.0231		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	689.5	541.4	486.6	886.8	660.9	581.2
Time on Time	0.9790	1.2468	1.3872	0.7612	1.0213	1.1614

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	994.7	824.2	732.2	701.2	690.4	684.3	674.5
52°	656.4	555.8	513.8	500.1	495.2	492.9	485.5
60°	622.8	536.5	502.4	487.8	482.0	479.0	471.2
75°	597.6	523.7	494.0	475.2	462.2	455.5	450.2
90°	604.1	524.6	490.7	472.7	453.3	437.1	420.0
110°	616.0	518.7	481.7	455.0	436.4	423.3	403.5
120°	634.2	528.1	487.1	458.0	430.3	407.1	380.8
135°	702.3	571.2	508.8	478.1	450.3	423.2	368.2
150°	832.8	663.7	562.6	508.2	479.4	453.7	403.9
Run VMG	961.7	766.4	648.8	575.4	523.4	490.6	441.2

Certificate
Number **LT2235**
ORC Ref **0359000009**
Issued On **20/08/2020**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight
Default **622kg**
Maximum **650kg**
Minimum* **488kg**
**when applied by the NoR and SI*
Non Manual Pwr

Special Scoring
ToD ToT
Non Spin GPH **639.9 0.9376**
Non Spin OSN **621.8 0.9649**

Selected Courses							
Windward / Leeward	978.2	795.3	690.5	638.3	606.9	587.4	557.9
Circular Random	830.4	673.8	591.0	543.7	514.7	495.3	468.6
Coastal / Long Distance	976.5	748.9	626.7	562.1	526.3	496.8	448.9
Non Spinnaker	886.5	713.3	620.3	566.4	533.3	511.5	482.6

Sails Limitations
Headsails **5** Spinnakers **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	42.4°	40.9°	39.4°	37.9°	37.9°	37.5°	37.8°
Beat VMG	3.62	4.37	4.92	5.13	5.21	5.26	5.34
52°	5.48	6.48	7.01	7.20	7.27	7.30	7.42
60°	5.78	6.71	7.17	7.38	7.47	7.51	7.64
75°	6.02	6.87	7.29	7.58	7.79	7.90	8.00
90°	5.96	6.86	7.34	7.62	7.94	8.24	8.57
110°	5.84	6.94	7.47	7.91	8.25	8.51	8.92
120°	5.68	6.82	7.39	7.86	8.37	8.84	9.46
135°	5.13	6.30	7.08	7.53	7.99	8.51	9.78
150°	4.32	5.42	6.40	7.08	7.51	7.94	8.91
Run VMG	3.74	4.70	5.55	6.26	6.88	7.34	8.16
Gybe Angles	144.5°	149.0°	151.0°	158.5°	180.0°	180.0°	180.0°

Class Division Length
CDL = **9.273**

Storm Sails Areas
Heavy Weather Jib **28.66**
Storm Jib (JL=9.48) **10.62**
Storm Trysail **11.67**

Owner

BOAT	
Name TEGU	Sail Nr LTU 2235
File Tegu LTU2235 int	Data in meters/kilograms
RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 13.800	E 4.830 MDT1 0.125 MW 0.184
IG 14.500	J 4.185 MDL1 0.185 GO 0.204
ISP 14.530	SFJ MDT2 0.122 BD 0.220
BAS 1.745	SPL 4.180 MDL2 0.140 MWT 156.00
FSD 0.034	TPS 4.185 TL 1.230 MCG 4.600

INCLINING TEST AND FREEBOARDS		
Inclining Test Boom Inclining	LCFD	
Flotation date 24/05/2019	SG 1.0010	
FFM 1.309	FF 1.317	SFFP 0.075
FAM 0.970	FA 0.976	SAFP 10.275
W1 63.0	PD1 126.0	WD 4.670
W2 63.0	PD2 139.0	GSA 314.2
W3 63.0	PD3 126.0	RSA 20106.
W4 63.0	PD4 139.0	PLM 3010.0
LCF from stem on CL / on sheer	5.982 / 6.177	
Maximum beam station from stem	7.300	
RM Measured	115.4kg-m	
RM Default	122.0kg-m	
Limit of positive stability / Stab.Index	119.9° / 121.0	
Freeboard at mast at 4.185	1.101	



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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 0.182 ST5 0.255
ST2 0.178	ST4 0.112 EDL 2.390

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COMMENTS	
13,30, 4,55 14,25, 4,90	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	



SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.37	1.15	1.83	3.00	3.85	39.00	39.71	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	90.38		SL · (SFL + 4·SHW) / 6	
	14.17	14.17	14.17	7.72	7.39				
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	Flying	Meas.Date	Material	Comment
0.10	0.65	1.20	2.28	3.34	4.40	14.60	33.01	Y	No	03/01/2019	Unknow	
0.10	0.65	1.18	2.24	3.28	4.27	14.48	32.06	Y	No	24/05/2019	Carbon	patikslinta
0.10	0.65	1.20	2.28	3.32	4.31	14.27	31.99	Y	No	06/06/2017	Unknow	juoda, Audi
0.10	0.64	1.19	2.28	3.32	4.32	14.27	31.98	Y	No	06/06/2017	Unknow	juoda
0.09	0.49	0.89	1.79	2.83	3.87	14.20	26.68	Y	No	06/06/2017	Unknow	juoda

MEASUREMENT INVENTORY				
Measurer LTU 6				
Date 24/05/2019				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Yanmar	3YM20C	
Id	Item	Weight Description		

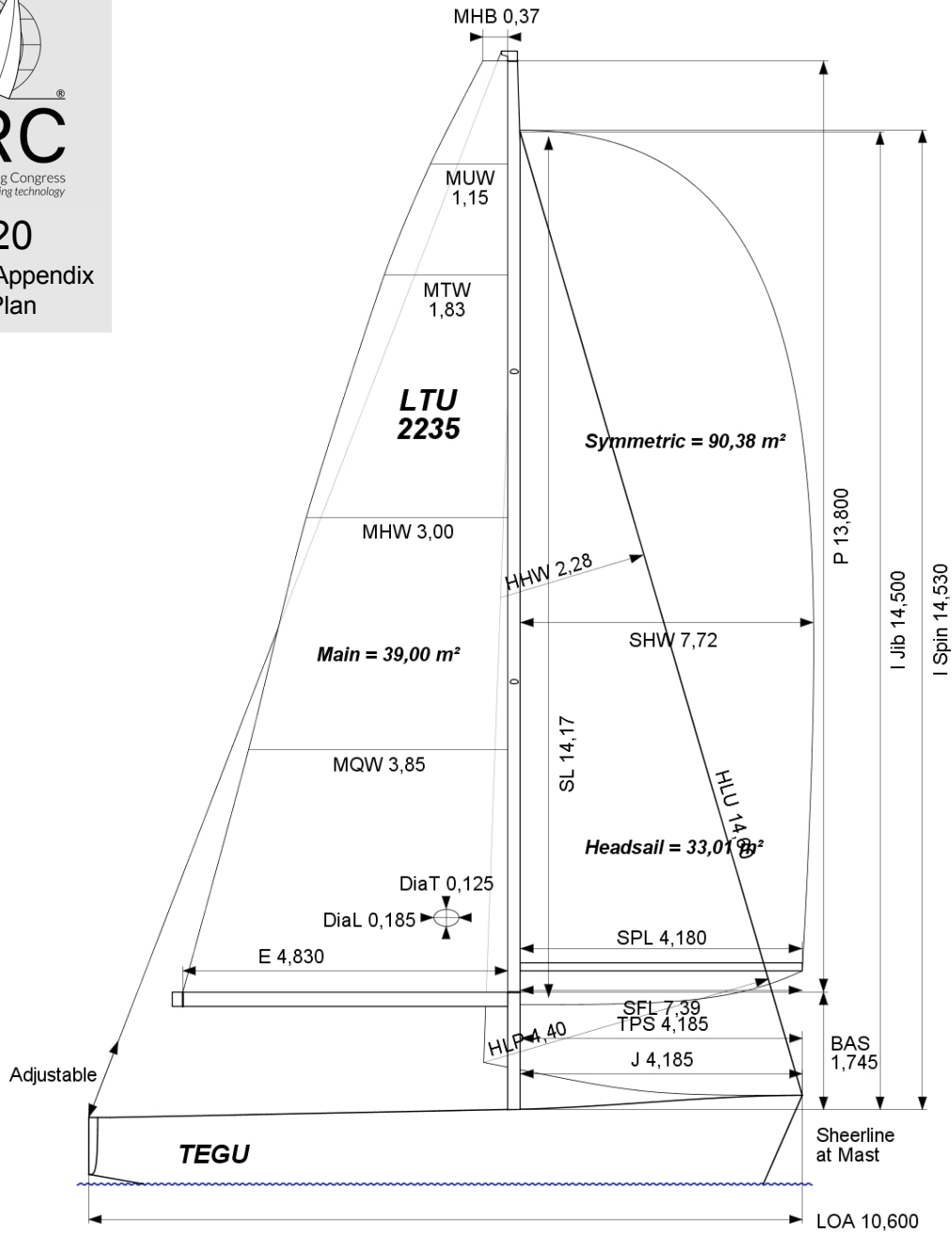
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
2	Tank	Water	PVC	120.0	5.50		0-0
1	Tank	Fuel	st.stl	60.0	6.15		5-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	42.0	5.00	2 batteries			



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.37	1.15	1.83	3.00	3.85	39.01		06/06/2017	WB	Unknown	piikas
4	0.40	1.11	1.77	2.95	3.95	38.98		24/05/2019	NS	Unknown	

HEADSAILS (5)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.10	0.65	1.20	2.28	3.34	4.40	14.60	105%	33.01	Y	No		03/01/2019	NS	Unknow	
2*	0.10	0.65	1.18	2.24	3.28	4.27	14.48	102%	32.06	Y	No		24/05/2019	WB	Carbon	patikslinta
2	0.10	0.65	1.20	2.28	3.32	4.31	14.27	103%	31.99	Y	No		06/06/2017	WB	Unknow	juoda, Audi
1	0.10	0.64	1.19	2.28	3.32	4.32	14.27	103%	31.98	Y	No		06/06/2017	WB	Unknow	juoda
3	0.09	0.49	0.89	1.79	2.83	3.87	14.20	92%	26.68	Y	No		06/06/2017	WB	Unknow	juoda

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	14.17	14.17	14.17	7.72	7.39	90.39		06/06/2017	WB	Unknown	baltas
4	14.19	14.19	14.19	7.69	7.34	90.11		15/06/2020	NS	Unknown	
1	14.15	14.15	14.15	7.70	7.36	90.00		06/06/2017	WB	Unknown	melynas

ASYMMETRIC SPINNAKERS (0)

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