

BOAT Name X BE Sail Nr ITA-15828	GPH 605.0	HULL Length Overall 10.600m Maximum Beam 3.250m Displacement 4,637kg Draft 2.181m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class X-35 Designer JEPPESEN Builder X YACHTS Series 09/2005 Age 09/2005 Age Allowance 0.455% Offset File x35.od.off - 29/01/2015 16:31:16 Measurement by - 16/05/2019		IMSL 9.504m VCGD 0.019m Sink 17.80kg/mm RL 9.024m VCGM 0.000m WS 23.25m² LSM0 9.330m Displacement/Length ratio 5.7094



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	589.9			656.4		
Time on Time	1.0170			1.0284		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	680.6	539.5	486.2	874.8	658.3	580.8
Time on Time	0.9917	1.2511	1.3884	0.7716	1.0254	1.1621

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	978.4	812.3	728.8	702.9	693.2	683.4	677.9
52°	647.5	550.0	513.0	501.8	497.3	495.2	487.7
60°	614.8	532.4	501.6	489.3	484.2	481.6	472.8
75°	590.1	520.8	492.8	475.3	464.1	458.4	452.5
90°	594.0	518.1	486.0	470.6	452.0	437.2	422.8
110°	607.0	514.8	479.6	454.1	431.6	417.1	395.6
120°	625.0	523.9	485.0	456.3	429.2	408.6	374.6
135°	693.0	565.2	505.9	476.0	448.4	421.4	366.3
150°	822.0	657.4	558.2	505.6	477.5	451.8	402.1
Run VMG	949.2	759.1	643.5	571.5	520.3	488.4	439.2

Certificate
Number **158281**
ORC Ref **ITA00052555**
Issued On **20/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **624kg**
Maximum **615kg**
Minimum* **461kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	614.8	0.9759
Double H.OSN	601.3	0.9979
Non Spin GPH	635.0	0.9449
Non Spin OSN	617.9	0.9710

Selected Courses							
Windward / Leeward	963.8	785.7	686.1	637.2	606.8	585.9	558.6
Circular Random	821.3	668.2	587.6	541.8	513.6	494.7	468.5
Coastal / Long Distance	962.3	740.2	623.0	561.4	526.3	496.9	448.3
Non Spinnaker	875.2	706.1	615.9	563.8	531.9	510.8	483.2

Sails Limitations

Headsails	Spinnakers
5	3

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	42.1°	40.8°	39.1°	37.9°	37.7°	37.4°	38.0°
Beat VMG	3.68	4.43	4.94	5.12	5.19	5.27	5.31
52°	5.56	6.54	7.02	7.17	7.24	7.27	7.38
60°	5.86	6.76	7.18	7.36	7.44	7.48	7.61
75°	6.10	6.91	7.31	7.57	7.76	7.85	7.96
90°	6.06	6.95	7.41	7.65	7.96	8.23	8.51
110°	5.93	6.99	7.51	7.93	8.34	8.63	9.10
120°	5.76	6.87	7.42	7.89	8.39	8.81	9.61
135°	5.19	6.37	7.12	7.56	8.03	8.54	9.83
150°	4.38	5.48	6.45	7.12	7.54	7.97	8.95
Run VMG	3.79	4.74	5.59	6.30	6.92	7.37	8.20
Gybe Angles	142.3°	148.4°	151.4°	159.0°	180.0°	180.0°	180.0°

Class Division Length
CDL = **9.265**

Storm Sails Areas
Heavy Weather Jib **28.66**
Storm Jib (JL=9.48) **10.62**
Storm Trysail **11.97**

Owner

BOAT	
Name X BE	Sail Nr ITA-15828
File I15828	Data in meters/kilograms

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 14.250	E 4.800 MDT1 0.125 MW 0.184
IG 14.500	J 4.170 MDL1 0.184 GO 0.204
ISP 14.530	SFJ MDT2 0.122 BD 0.220
BAS 1.755	SPL 4.170 MDL2 0.140 MWT 168.50
FSP 0.068	TPS 4.170 TL 1.230 MCG 4.680

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 15/05/2019		SG 1.0250	
FFM 1.318	FF 1.319	SFFP 0.075	
FAM 0.970	FA 0.971	SAFP 10.275	
W1 71.6	PD1 563.2	WD 11.450	
W2 71.6	PD2 558.2	GSA 1.0	
W3 71.6	PD3 561.5	RSA 1.0	
W4 71.6	PD4 533.3	PLM 9000.0	
LCF from stem on CL / on sheer		5.993 / 6.187	
Maximum beam station from stem		7.300	
RM Measured		116.6kg-m	
RM Default		123.6kg-m	
Limit of positive stability / Stab.Index		118.3° / 119.4	
Freeboard at mast at 4.170		1.101	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.415		
Type Feathering 3 blades	PBW 0.119		
Twin Screw No	PIPA 0.0034		
ST1 0.042	ST3 0.180	ST5 0.255	
ST2 0.178	ST4 0.112	EDL 2.140	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

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SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.220	1.12	1.93	3.22	4.10	41.98	42.90	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	14.37	14.37	14.37	7.73	7.49	91.99		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	13.93	13.69	13.81	5.36	7.05	65.57 71.86		AS · (SFL + 4·SHW) / 6	

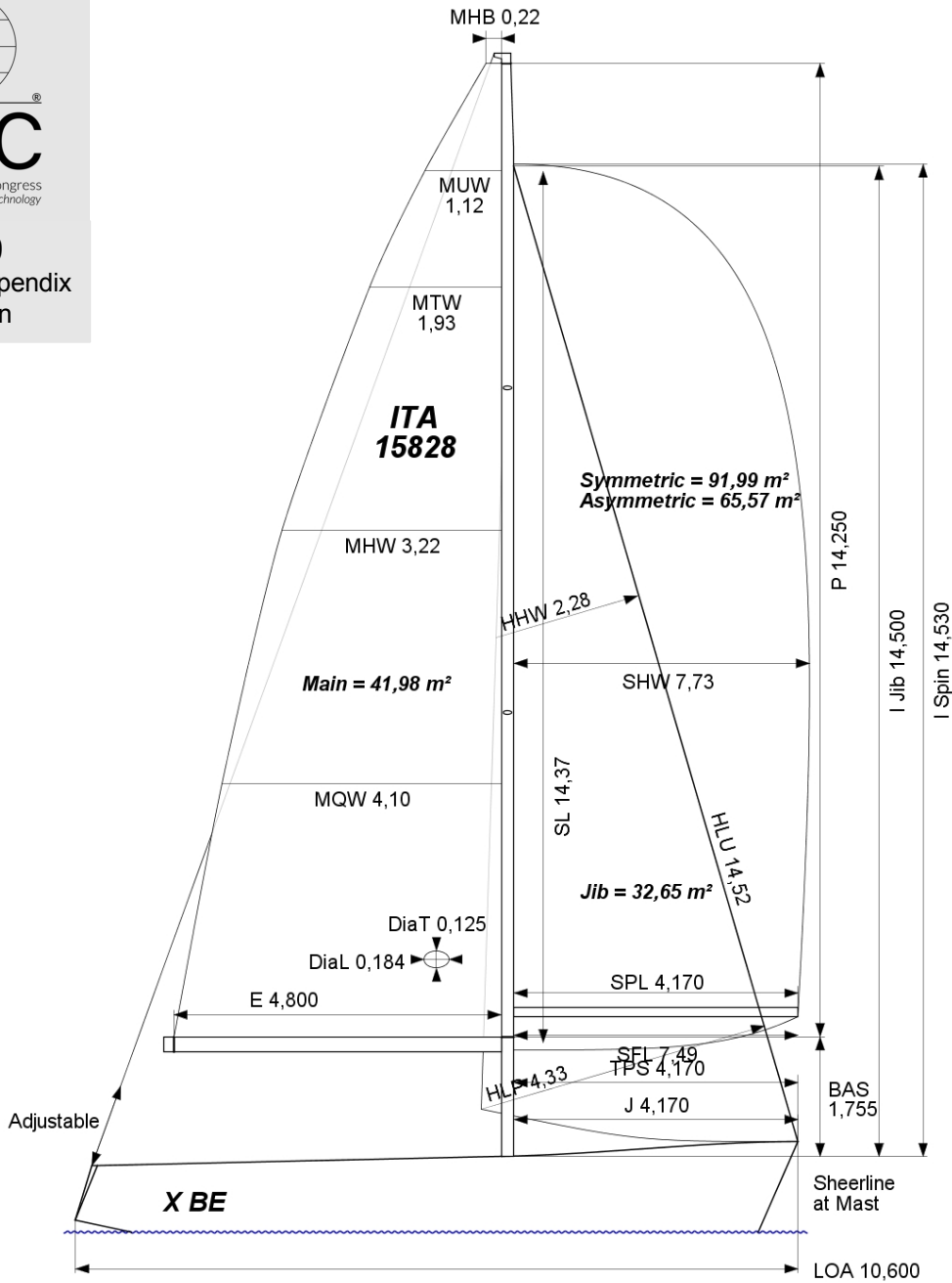
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.09	0.65	1.24	2.28	3.31	4.33	14.52	32.66	Y		16/05/2019	Unknow	
0.11	0.63	1.18	2.21	3.27	4.35	14.22	31.52	Y	N	19/08/2015	Unknow	

MEASUREMENT INVENTORY				
Measurer 149				
Date 15/05/2019				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	YANMAR	3YM20C	
Id	Item	Weight Description		

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
B	Tank	ACQUA	PVC	150.0	5.40	0-0 VUOTO
A	Tank	GASOLIO	INOX	60.0	6.00	15-0 L
Id	Item	Weight	Distance	VCG Description		
B	Ballast	56.5	4.30	4 PANI DI PB SX		
A	Ballast	49.0	4.30	3 PANI DI PB DX		
B	Battery	19.0	5.20	55 AH		
A	Battery	40.0	4.80	145 AH		
A	Misc	15.0	7.60	BOILER		



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0,22	1,12	1,93	3,22	4,10	41,98		19/04/2018	NORTH	Unknown	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
B	0,09	0,65	1,24	2,28	3,31	4,33	14,52	104%	32,66	Y			16/05/2019		Unknown	
A	0,11	0,63	1,18	2,21	3,27	4,35	14,22	104%	31,52	Y	N		19/08/2015	NORTH	Unknown	

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	14,37	14,37	14,37	7,73	7,49	92,00		19/04/2018	NORTH	Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	13,93	13,69	13,81	5,36	7,05	65,58	asym		16/05/2019		Unknown	