

BOAT Name ESCAPE Sail Nr GRE-332	GPH 659.3	HULL Length Overall 9.978m Maximum Beam 3.284m Displacement 4,920kg Draft 1.844m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.263% Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class X-332 Designer N. JEPPESEN Builder X-YACHTS Series 10/1994 Age 07/1997 Age Allowance 0.487% Offset File IIX332.OFF - 29/02/1996 17:14:12 Measurement by - 30/08/2004		IMSLS 9.241m VCGD 0.038m Sink 17.45kg/mm RL 7.559m VCGM 0.075m WS 23.39m² LSM0 9.248m Displacement/Length ratio 6.2204



ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC International
Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	640.9			715.7		
Time on Time	0.9362			0.9431		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	755.2	583.3	524.1	975.6	718.9	627.0
Time on Time	0.8938	1.1572	1.2879	0.6919	0.9389	1.0766

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1116.1	926.1	820.8	768.0	752.2	747.6	740.3
52°	729.7	618.0	555.7	531.4	523.4	520.2	516.2
60°	690.5	588.2	538.0	517.4	508.4	504.8	502.4
75°	661.1	566.5	525.5	505.5	492.3	483.6	477.3
90°	664.6	557.2	514.9	499.7	486.8	471.9	450.4
110°	661.8	552.0	509.4	485.3	464.2	451.2	432.8
120°	684.0	565.9	515.7	489.8	466.5	444.1	415.2
135°	759.5	620.7	542.2	507.5	483.9	460.1	415.1
150°	898.0	712.8	605.3	539.3	507.5	485.1	440.7
Run VMG	1036.9	823.1	697.1	612.2	551.7	515.4	471.1

Certificate
Number **00273**
ORC Ref **03420000KSO**
Issued On **17/06/2020**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight
Default 616kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **690.2 0.8693**
Non Spin OSN **668.5 0.8975**

Selected Courses							
Windward / Leeward	1076.5	874.6	759.0	690.1	652.0	631.5	605.7
Circular Random	906.7	732.4	639.4	586.1	554.1	533.7	508.0
Coastal / Long Distance	1072.5	820.9	683.5	604.2	564.6	534.4	484.7
Non Spinnaker	963.5	772.2	668.6	608.2	571.4	547.9	520.0

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	43.5°	41.3°	40.9°	40.1°	39.8°	39.8°	39.9°
Beat VMG	3.23	3.89	4.39	4.69	4.79	4.82	4.86
52°	4.93	5.82	6.48	6.77	6.88	6.92	6.97
60°	5.21	6.12	6.69	6.96	7.08	7.13	7.17
75°	5.45	6.35	6.85	7.12	7.31	7.44	7.54
90°	5.42	6.46	6.99	7.20	7.40	7.63	7.99
110°	5.44	6.52	7.07	7.42	7.75	7.98	8.32
120°	5.26	6.36	6.98	7.35	7.72	8.11	8.67
135°	4.74	5.80	6.64	7.09	7.44	7.82	8.67
150°	4.01	5.05	5.95	6.68	7.09	7.42	8.17
Run VMG	3.47	4.37	5.16	5.88	6.52	6.99	7.64
Gybe Angles	145.5°	150.5°	153.0°	159.0°	180.0°	180.0°	180.0°

Class Division Length
CDL = **8.397**

Storm Sails Areas
Heavy Weather Jib **23.72**
Storm Jib (JL=8.62) **8.79**
Storm Trysail **10.52**

Owner

BOAT	
Name ESCAPE File GR332	Sail Nr GRE-332 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 13.150	E 4.568 MDT1 0.116 MW 0.165
IG 13.210	J 3.542 MDL1 0.165 GO 0.177
ISP 13.210	SFJ 0.310 MDT2 0.103 BD 0.151
BAS 1.700	SPL 3.555 MDL2 0.133 MWT 121.00
FSD 0.031	TPS TL 1.600 MCG 4.586

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 05/05/2007		SG 1.0280	
FFM 1.162	FF 1.160	SFFP 0.431	
FAM 0.955	FA 0.961	SAFP 9.131	
W1 68.0	PD1 243.0	WD 10.250	
W2 68.0	PD2 243.0	GSA 41.5	
W3 68.0	PD3 243.0	RSA 6082.1	
W4 68.0	PD4 243.0	PLM 2110.0	
LCF from stem on CL / on sheer		5.539 / 5.771	
Maximum beam station from stem		6.249	
RM Measured		105.2kg-m	
RM Default		104.2kg-m	
Limit of positive stability / Stab.Index		112.3° / 114.0	
Freeboard at mast at 3.852		1.055	



ORC
Offshore Racing Congress
World leader in rating technology


2020
IMS Measurement
Certificate

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW 0.118		
Twin Screw No	PIPA 0.0034		
ST1 0.041	ST3	ST5 0.310	
ST2	ST4 0.112	EDL 2.000	

Certificate

Number **00273**
ORC Ref **03420000KSO**
Issued On **17/06/2020**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**



COMMENTS	
ex "VIRUS II"	

MOVABLE BALLAST			
N/A			

CENTERBOARD			
N/A			

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.13	0.96	1.71	2.90	3.85	35.60	36.30	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	12.99	12.99	12.99	6.36	6.25	68.61		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	Flying	Meas.Date	Material	Comment
0.04	0.50	0.95	1.88	2.86	3.83	12.58	24.00		No	23/10/2011	Pentex	

MEASUREMENT INVENTORY				
Measurer				
Date 05/05/2007				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	45.0	8.60	Danworth
4	Chain	13.5	8.60	10m x 8mm
4	Tools	15.0	5.20	
Id	Item	Maker	Model	
1	Engine	YANMAR	3GM	
Id	Item	Weight	Description	
4	Deck Gear	10.0		

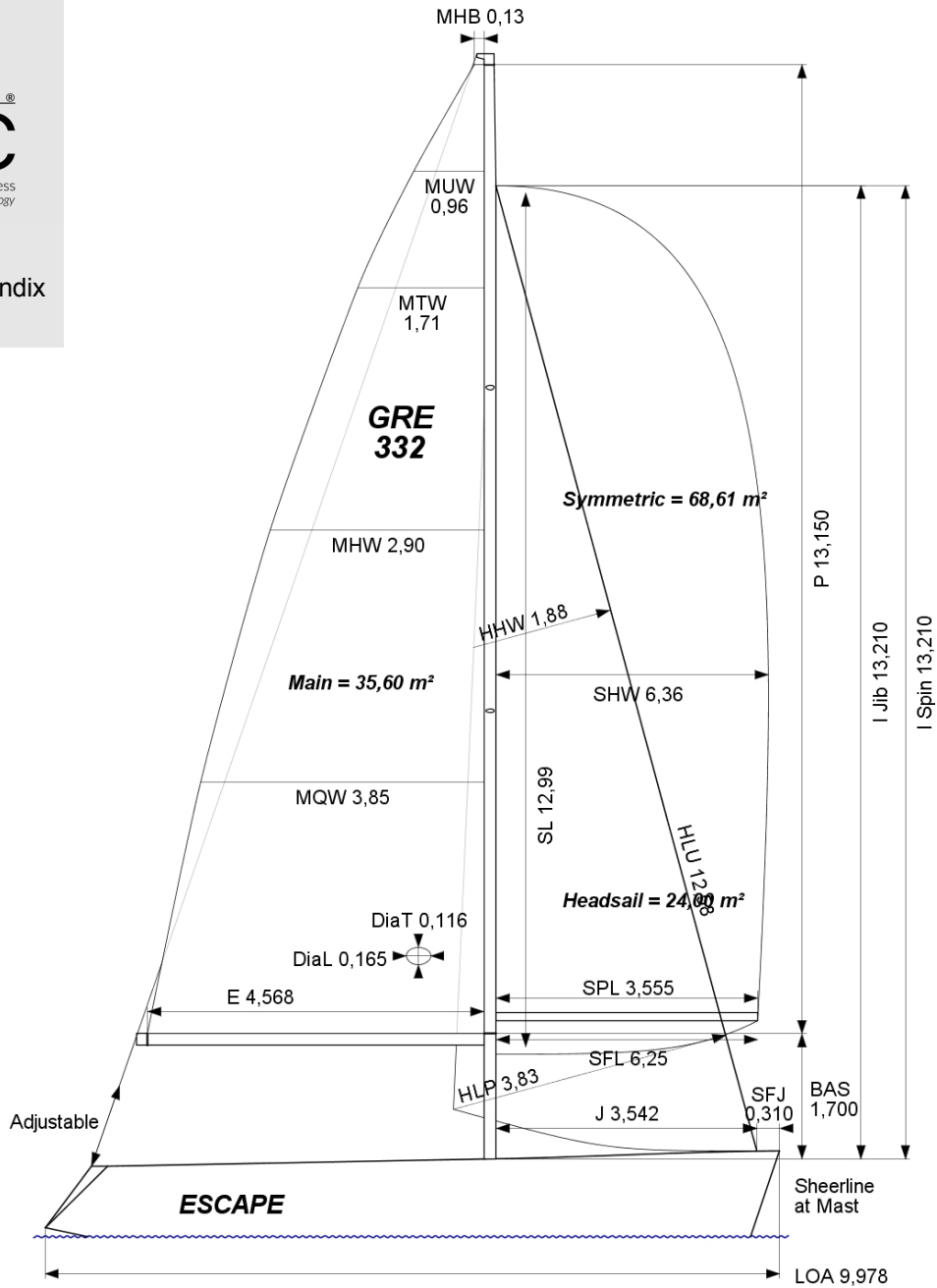
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
1	Tank Fuel		Stainless Steel	50.0	7.50		0-0
2	Tank Water		PVC Hard	120.0	3.80		0-0
3	Tank Water		PVC soft (bag)	100.0	3.50		0-0
Id	Item	Weight	Distance	VCG Description			
1	Battery	59.7	4.60	3 x 74Ah			
1	Misc		8.60	Waterheater 15 lt			



ORC

Offshore Racing Congress
World leader in rating technology

2020
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
W1	0.13	0.96	1.71	2.90	3.85	35.61				Unknown	
M1	0.15	0.92	1.67	2.86	3.80	35.16				Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J1	0.04	0.50	0.95	1.88	2.86	3.83	12.58	108%	24.00	No			23/10/2011	Yacht Care	Pentex	

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	12.99	12.99	12.99	6.36	6.25	68.61		18/03/2009	ZOUGANELI	Unknown	
1	12.85	12.85	12.85	6.36	6.25	67.87		11/08/2007		Unknown	
2	11.65	11.65	11.65	6.06	6.11	58.93		11/08/2007		Unknown	

ASYMMETRIC SPINNAKERS (0)

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