

BOAT		GPH	HULL				
Name NEXT Sail Nr ISR 1		570.6	Length Overall 12.350m Maximum Beam 3.646m Displacement 6,949kg Draft 2.502m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension				
GENERAL		Class X-41 Designer JEPPESEN Builder X YACHTS Series 01/2006 Age 08/2008 Age Allowance 0.390% Offset File X41.OFF - 23/02/2015 18:29:08 Measurement by NOCETI-PAIS - 31/05/2016					
		IMSL	11.145m	VCGD	0.022m	Sink	23.10kg/mm
		RL	10.134m	VCGM	0.000m	WS	30.88m ²
		LSM0	11.049m	Displacement/Length ratio		5.1517	



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	554.9			619.6		
Time on Time	1.0813			1.0893		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	648.4	506.7	454.7	834.0	622.2	545.5
Time on Time	1.0411	1.3322	1.4844	0.8094	1.0848	1.2373

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	939.7	773.4	690.8	663.3	651.9	641.7	633.2
52°	619.9	519.0	478.9	467.2	462.2	459.9	452.2
60°	588.6	499.5	466.7	454.8	449.7	447.1	438.7
75°	566.2	487.4	457.8	441.5	431.4	426.1	421.1
90°	573.4	488.4	455.4	438.2	421.2	407.5	393.5
110°	583.5	483.9	447.6	424.9	406.3	394.9	374.5
120°	599.1	493.1	451.7	425.4	401.1	380.8	353.4
135°	662.3	535.4	472.0	442.8	416.9	390.6	339.1
150°	782.6	622.8	526.7	472.7	444.9	421.0	373.4
Run VMG	903.7	719.1	608.2	539.1	493.3	458.9	412.4

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VPP Ver. **2018 1.00**
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Crew Weight

Default 794kg
Maximum **815kg**
Minimum* **611kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	576.0	1.0417
Double H.OSN	562.1	1.0673
Non Spin GPH	603.6	0.9940
Non Spin OSN	587.1	1.0220

Selected Courses							
Windward / Leeward	921.7	746.3	649.5	601.2	572.6	550.3	522.8
Circular Random	781.4	632.4	553.7	508.8	481.3	462.8	437.7
Coastal / Long Distance	919.9	702.2	587.7	526.6	492.9	464.1	418.6
Non Spinnaker	840.7	674.4	584.9	532.8	500.6	479.4	451.9

Sails Limitations

Headsails	Spinnakers
6	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	42.5°	41.2°	39.7°	38.5°	38.0°	38.0°	38.3°
Beat VMG	3.83	4.65	5.21	5.43	5.52	5.61	5.69
52°	5.81	6.94	7.52	7.71	7.79	7.83	7.96
60°	6.12	7.21	7.71	7.92	8.01	8.05	8.21
75°	6.36	7.39	7.86	8.15	8.34	8.45	8.55
90°	6.28	7.37	7.90	8.22	8.55	8.83	9.15
110°	6.17	7.44	8.04	8.47	8.86	9.12	9.61
120°	6.01	7.30	7.97	8.46	8.98	9.45	10.19
135°	5.44	6.72	7.63	8.13	8.64	9.22	10.62
150°	4.60	5.78	6.83	7.62	8.09	8.55	9.64
Run VMG	3.98	5.01	5.92	6.68	7.30	7.85	8.73
Gybe Angles	143.1°	147.3°	150.2°	155.9°	170.0°	180.0°	180.0°

Class Division Length

CDL = **10.641**

Storm Sails Areas


Heavy Weather Jib **39.52**
Storm Jib (JL=11.12) **14.64**
Storm Trysail **15.39**

Owner

BOAT	
Name NEXT	Sail Nr ISR 1
File ISR1	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 25/05/2015		SG 1.0290	
FFM 1.442	FF 1.442	SFFP 0.200	
FAM 1.093	FA 1.092	SAFP 11.995	
W1 114.0	PD1 603.2	WD 12.400	
W2 114.0	PD2 597.6	GSA 1.0	
W3 114.0	PD3 609.1	RSA 1.0	
W4 114.0	PD4 600.9	PLM 9000.0	
LCF from stem on CL / on sheer		6.923 / 7.133	
Maximum beam station from stem		8.432	
RM Measured		184.7kg·m	
RM Default		202.6kg·m	
Limit of positive stability / Stab.Index		119.4° / 123.2	
Freeboard at mast at 5.200		1.206	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	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 16.080	E 5.470	MDT1 0.130	MW 0.255
IG 17.040	J 4.915	MDL1 0.255	GO 0.275
ISP 18.200	SFJ 0.285	MDT2 0.121	BD 0.200
BAS 1.870	SPL 4.920	MDL2 0.200	MWT 202.00
FSP 0.076	TPS 5.135	TL 0.930	MCG 5.515




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IMS Measurement Certificate

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.450		
Type Folding 2 blades	PBW 0.118		
Twin Screw No	PIPA 0.0040		
ST1 0.065	ST3 0.170	ST5 0.320	
ST2 0.180	ST4 0.112	EDL 1.890	

COMMENTS	
based on I4100	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.210	1.15	2.06	3.53	4.60	52.41	53.41	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL			SL · (SFL + 4·SHW) / 6	
	17.95	17.95	17.95	8.77	8.54	130.50			
Asymmetric	SLU	SLE	SL	SHW	SFL	Area (r)		AS · (SFL + 4·SHW) / 6	
	18.45	16.76	17.61	6.01	7.92	93.78 105.74			

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
0.12	0.76	1.44	2.72	3.97	5.20	16.95	45.52	Y	N	25/05/2015	Unknow	
0.10	0.77	1.44	2.72	3.99	5.21	16.85	45.35	Y		27/08/2018	Carbon	
0.06	0.56	1.09	2.20	3.49	4.60	16.18	36.86	Y	N	08/09/2018	Unknow	email from Zoran
						8.30	0.00			08/09/2018	Unknow	f3.22 Area 13.3

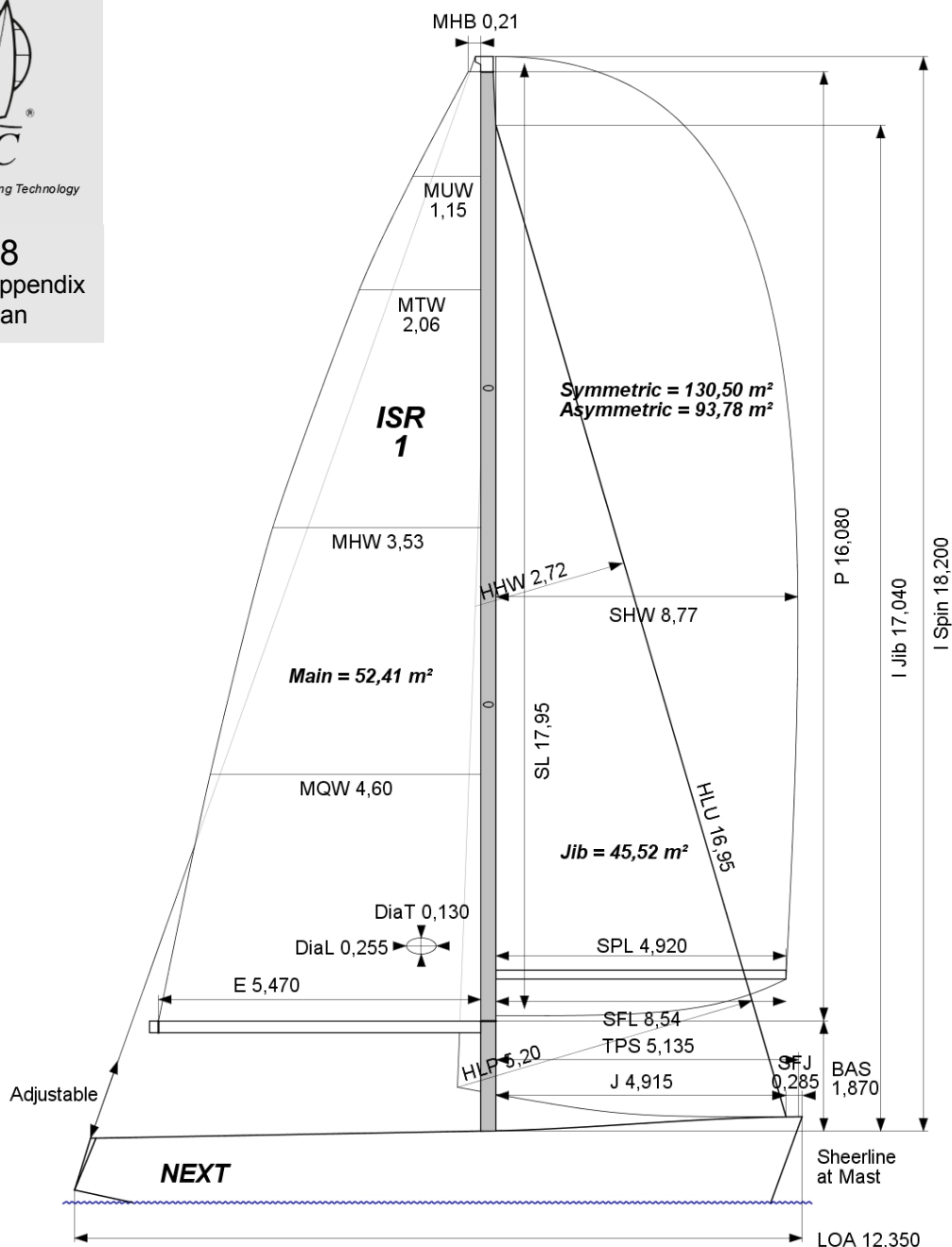
MEASUREMENT INVENTORY				
Measurer NOCETI 120				
Date 25/05/2015				
Comment CONDIZIONI OTTIME				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
A	Engine	VOLVO	40 HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
A	Tank	GASOLIO	INOX	90.0	5.90	0.00	40.0 VUOTO
B	Tank	ACQUA	PVC	180.0	5.90	0.00	0.0 VUOTO
Id	Item	Weight	Distance	VCG Description			
A	Ballast	40.0	5.70	0.00 N.2 PANI PIOMBO FISSATI A MURATA			
B	Ballast	60.0	5.00	0.00 N.4 PANI PIOMBO FISSATI SENTINA			
A	Battery	70.0	4.70	0.00 2 BATTERIE			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1	0.210	1.15	2.06	3.53	4.60	52.41	NS-ISR	27/08/2018	NS	Carbon	

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.12	0.76	1.44	2.72	3.97	5.20	16.95	106%	45.52	Y	N	NOCETI	25/05/2015	NS	Carbon	Unknow
B	0.10	0.77	1.44	2.72	3.99	5.21	16.85	106%	45.35	Y	N	NS-ISR	27/08/2018	NS	Carbon	Unknow
J3	0.06	0.56	1.09	2.20	3.49	4.60	16.18	94%	36.86	Y	N	Zoran	08/09/2018	NS	Carbon	Unknow email from Zoran
S3							8.30	0%	0.00			Zoran	08/09/2018			Unknow f3.22 Area 13.3

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S1,5	17.95	17.95	17.95	8.77	8.54	130.50	Zoran	09/09/2018		Nylon	
S4	17.75	17.75	17.75	8.71	8.41	127.95	Zoran	09/09/2018		Nylon	
S1	17.94	17.94	17.94	8.44	8.52	126.42	Zoran	09/09/2018		Nylon	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
Code0 75%	18.45	16.76	17.61	6.01	7.92	93.78	asym	NS-ISR	08/09/2018	NS	Nylon	Email Zoran