

BOAT Name Stony 7 Sail Nr DEN 201	GPH 558.4	HULL Length Overall 13.305m Maximum Beam 4.054m Displacement 9,431kg Draft 2.410m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.105% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class Xp 44 Designer JEPPESEN Builder X-YACHTS Series 12/2010 Age 04/2013 Age Allowance 0.292% Offset File DEN201-2018.off - 27/05/2018 20:41:46 Measurement by - 23/03/2015		IMSL 12.333m VCGD -0.109m Sink 27.29kg/mm RL 10.547m VCGM -0.084m WS 37.91m² LSM0 12.130m Displacement/Length ratio 5.2842



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	543.6			610.4		
Time on Time	1.1038			1.1058		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	642.1	493.8	439.4	835.5	613.4	531.5
Time on Time	1.0512	1.3669	1.5362	0.8079	1.1004	1.2699

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	945.9	773.4	684.8	650.2	635.2	627.6	612.6
52°	614.2	512.4	464.6	448.7	442.4	439.3	431.6
60°	577.9	488.1	450.1	435.5	429.4	426.1	420.0
75°	549.8	471.5	440.0	423.5	412.3	405.7	399.6
90°	554.4	472.5	436.6	421.0	405.2	390.8	372.3
110°	566.2	468.0	430.0	407.9	389.3	377.5	356.7
120°	584.5	479.1	435.8	411.6	387.8	365.9	338.5
135°	657.6	529.0	459.1	428.2	405.3	381.3	334.2
150°	783.7	621.8	522.9	462.3	431.3	409.7	366.0
Run VMG	904.9	718.0	603.8	529.9	483.2	446.6	402.5

Certificate
Number **34547**
ORC Ref **DEN00000338**
Issued On **26/04/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default 907kg
Maximum **925kg**
Minimum* **694kg**
**when applied by the NoR and SI*
Non Manual Pwr **Rig**

Special Scoring

	ToD	ToT
Double H.GPH	568.0	1.0564
Double H.OSN	554.3	1.0825
Non Spin GPH	590.3	1.0164
Non Spin OSN	574.5	1.0444

Selected Courses							
Windward / Leeward	925.4	745.7	644.3	590.1	559.2	537.1	507.6
Circular Random	771.1	621.5	541.5	495.4	466.9	447.8	421.9
Coastal / Long Distance	923.3	699.6	579.4	513.1	477.5	448.7	402.2
Non Spinnaker	828.8	662.1	571.6	518.4	485.4	463.4	434.8

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	43.5°	41.8°	40.9°	40.0°	39.4°	39.0°	39.5°
Beat VMG	3.81	4.66	5.26	5.54	5.67	5.74	5.88
52°	5.86	7.03	7.75	8.02	8.14	8.20	8.34
60°	6.23	7.38	8.00	8.27	8.38	8.45	8.57
75°	6.55	7.64	8.18	8.50	8.73	8.87	9.01
90°	6.49	7.62	8.25	8.55	8.88	9.21	9.67
110°	6.36	7.69	8.37	8.83	9.25	9.54	10.09
120°	6.16	7.51	8.26	8.75	9.28	9.84	10.64
135°	5.47	6.81	7.84	8.41	8.88	9.44	10.77
150°	4.59	5.79	6.88	7.79	8.35	8.79	9.84
Run VMG	3.98	5.01	5.96	6.79	7.45	8.06	8.94
Gybe Angles	142.1°	146.4°	148.5°	153.9°	162.1°	180.0°	180.0°

Class Division Length
CDL = **11.441**

Storm Sails Areas
Heavy Weather Jib **44.66**
Storm Jib (JL=11.83) **16.54**
Storm Trysail **18.68**

Owner

BOAT	
Name Stony 7	Sail Nr DEN 201
File 34547 - XP44 DEN	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 16/07/2017		SG 1.0080	
FFM 1.495	FF 1.503	SFFP 0.744	
FAM 1.218	FA 1.223	SAFP 13.259	
W1 150.0	PD1 653.8	WD 13.700	
W2 150.0	PD2 654.8	GSA 1.0	
W3 150.0	PD3 649.1	RSA 1.0	
W4 150.0	PD4 660.4	PLM 9000.0	
LCF from stem on CL / on sheer		7.402 / 7.660	
Maximum beam station from stem		9.119	
RM Measured		247.3kg-m	
RM Default		264.5kg-m	
Limit of positive stability / Stab.Index		126.1° / 130.9	
Freeboard at mast at 5.244		1.345	



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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 17.908	E 5.958	MDT1 0.129	MW 0.263
IG 18.088	J 4.949	MDL1 0.263	GO 0.290
ISP 18.192	SFJ 0.295	MDT2 0.108	BD 0.303
BAS 1.753	SPL 5.031	MDL2 0.210	MWT 252.00
FSP 0.082	TPS 5.314	TL 1.170	MCG 6.370

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.230		
Type Folding 2 blades	PBW 0.115		
Twin Screw No	PIPA 0.0039		
ST1 0.065	ST3 0.180	ST5 0.260	
ST2 0.180	ST4 0.110	EDL 2.650	

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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	
	0.180	1.30	2.27	3.77	4.94	63.07	64.20	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	17.75	17.75	17.75	9.93	8.76	143.42		SL · (SFL + 4·SHW) / 6	
Asymmetric	SLU	SLE	SL	SHW	SFL				
	19.55	17.42	18.48	9.10	9.13	140.27		AS · (SFL + 4·SHW) / 6	

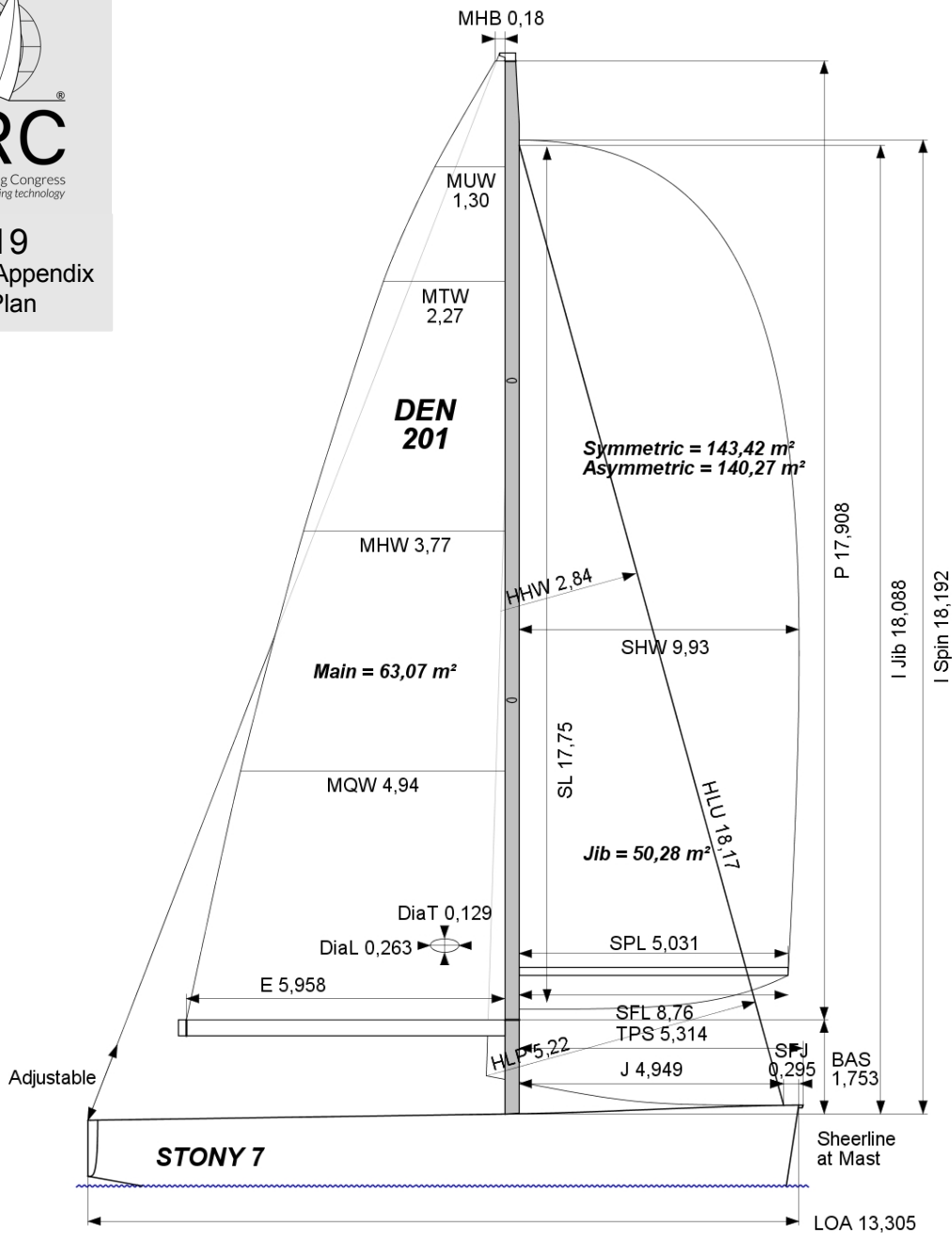
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.12	0.85	1.59	2.84	4.04	5.22	18.17	50.28	Y		10/07/2017	Unknow	JIB L 17 #1
0.12	0.83	1.55	2.75	4.00	5.21	18.13	49.45	Y		10/07/2017	Unknow	Jib M 16 #2
0.11	0.74	1.50	2.76	3.99	5.25	18.08	49.08	Y		29/01/2014	Carbon	
0.08	0.49	1.17	2.38	3.62	4.92	18.00	43.32	Y		29/01/2014	Carbon	
0.05	0.55	1.05	2.07	3.16	4.28	16.70	35.31	Y		01/07/2016	Unknow	Stay Sail

MEASUREMENT INVENTORY				
Measurer				
Date 16/07/2017				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	Yanmar	55 HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
2	Tank	Diesel	Alluminium	250.0	5.90	0.15	40-0
1	Tank	Water	PVC	400.0	6.25	0.15	0-0
Id	Item	Weight	Distance	VCG Description			
3	Battery	25.0	9.85	-0.05 50 Ah			
2	Battery	40.0	4.65	0.05 130 Ah			
1	Battery	40.0	4.65	0.05 130 AH			
1	Misc	10.0	10.15	0.05 Water boils			
2	Misc	15.0	10.25	0.05 oil Header			
3	Misc	35.0	1.45	-0.05 Bov thruster			



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.18	1.30	2.27	3.77	4.94	63.07		10/07/2017	OneSails	Carbon	Main 2017
1	0.16	1.24	2.18	3.64	4.80	61.40		05/07/2016	North	Kevlar	

HEADSAILS (5)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.12	0.85	1.59	2.84	4.04	5.22	18.17	105%	50.28	Y			10/07/2017	OneSails	Nylon	Unknow JIB L 17 #1
4	0.12	0.83	1.55	2.75	4.00	5.21	18.13	105%	49.45	Y			10/07/2017	OneSails	Nylon	Unknow Jib M 16 #2
3	0.11	0.74	1.50	2.76	3.99	5.25	18.08	106%	49.08	Y			29/01/2014	North Sails	Carbon	
2	0.08	0.49	1.17	2.38	3.62	4.92	18.00	99%	43.32	Y			29/01/2014	North Sails	Carbon	
S1	0.05	0.55	1.05	2.07	3.16	4.28	16.70	86%	35.31		Y		01/07/2016	One Sails	Nylon	Unknow Stay Sail

SYMMETRIC SPINNAKERS (3)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	17.75	17.75	17.75	9.93	8.76	143.42		10/07/2017	OneSails	Nylon	S-4 2017
3	17.86	17.86	17.86	9.71	9.31	143.33		01/07/2016		Unknown	S-1 0,5
1	17.87	17.87	17.87	9.45	9.00	139.39		10/07/2017	North Sails	Nylon	S-1,5

ASYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
81217	19.55	17.42	18.48	9.10	9.13	140.28	asym		10/07/2017	North	Nylon	A-3
1	18.04	16.76	17.40	6.92	9.21	106.99	asym		18/07/2017	OneSails	Kevlar	Code 0