

BOAT Name Teknova Sail Nr SWE 0	GPH 549.0	HULL Length Overall 10.320m Maximum Beam 3.008m Displacement 2,809kg Draft 2.532m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation Hull Construction Cored Carbon Rudder Yes Crew Arm Extension IMSL 10.069m VCGD -0.258m Sink 15.55kg/mm RL 10.338m VCGM -0.265m WS 20.37m²
GENERAL Class M 34 Designer Nievelle Builder Archambault Series 02/2010 Age 02/2010 Age Allowance 0.163% Offset File M34.off - 02/09/2011 14:02:52 Measurement by T.Andersson - 06/06/2015		



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2015
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



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	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	538.5			612.3		
Time On Time	1.1142			1.1025		
Performance Line	0.978	110.8		1.144	334.2	
Triple Number	Low 1.0964	Medium 1.3713	High 1.5599	Low 0.8355	Medium 1.0956	High 1.2601

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	902.3	745.3	685.4	656.7	641.6	639.0	635.8
52°	576.0	502.7	481.3	470.7	463.8	459.2	454.4
60°	531.8	484.8	465.6	453.9	445.8	439.1	431.8
75°	498.2	461.0	439.6	423.7	413.0	405.5	394.8
90°	493.0	449.1	418.1	399.7	384.5	373.9	359.5
110°	522.0	469.0	430.1	391.1	365.4	342.0	315.9
120°	558.1	475.3	424.5	387.7	368.0	335.6	299.9
135°	631.1	509.5	465.2	423.2	379.6	335.5	288.8
150°	764.3	607.3	519.4	473.5	436.9	397.1	313.4
Run VMG	882.6	701.3	599.7	538.3	498.0	460.6	361.9

Selected Courses							
Windward / Leeward	892.4	723.3	642.6	597.5	569.8	549.8	498.8
Circular Random	743.9	606.9	534.1	491.0	462.6	441.4	408.6
Ocean for PCS	796.3	635.1	545.4	489.3	450.2	420.2	374.7
Non Spinnaker	818.4	658.1	571.3	519.7	486.5	463.2	429.9

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	44.6°	41.5°	38.6°	37.3°	36.5°	36.6°	36.9°
Beat VMG	3.99	4.83	5.25	5.48	5.61	5.63	5.66
52°	6.25	7.16	7.48	7.65	7.76	7.84	7.92
60°	6.77	7.42	7.73	7.93	8.08	8.20	8.34
75°	7.23	7.81	8.19	8.50	8.72	8.88	9.12
90°	7.30	8.02	8.61	9.01	9.36	9.63	10.01
110°	6.90	7.68	8.37	9.21	9.85	10.53	11.40
120°	6.45	7.57	8.48	9.28	9.78	10.73	12.00
135°	5.70	7.07	7.74	8.51	9.48	10.73	12.47
150°	4.71	5.93	6.93	7.60	8.24	9.07	11.49
Run VMG	4.08	5.13	6.00	6.69	7.23	7.82	9.95
Gybe Angles	137.2°	143.0°	148.4°	157.5°	163.0°	155.1°	141.2°

Certificate

Number
ORC Ref **SSF00001328**
Issued On **27/08/2015**
VPP Ver. **2015 1.01**
Valid until **31/12/2015**

Crew Weight

Declared **780kg**
Default* **667kg**
Non Manual Pwr

Special Scoring

	ToD	ToT
Non Spin GPH	588.9	1.0188
Non Spin OSN	574.3	1.0448
N/S Perf. Line	74.3	0.848

Sails Limitations

Headsails	Spinnakers
7	4

Class Division Length

CDL = **10.204**

Storm Sails Areas

Heavy Weather Jib	26.00
Storm Jib (JL=9.02)	9.63
Storm Triesail	11.51

Owner

BOAT	
Name Teknova	Sail Nr SWE 0
File 6251.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 06/06/2015		SG 1.0040	
FFM 1.302	FF 1.307	SFFP 0.514	
FAM 0.908	FA 0.911	SAFP 10.284	
W1 13.250	PD1 49.0	WD 8.109	
W2 25.700	PD2 94.0	GSA 0.4	
W3 50.550	PD3 190.0	RSA 63.6	
W4 71.250	PD4 267.0	PLM 2024.0	
LCF from stem on CL / on sheer		5.812 / 5.986	
Maximum beam station from stem		8.569	
RM Measured		76.0kg·m	
RM Default		84.5kg·m	
Limit of positive stability / Stab.Index		131.4° / 128.3	
Freeboard at mast at 4.127		1.064	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast Yes	Jumper Struts None		
Taper Hollows	Jib Furler		
Fiber Rigging Yes	Main Furler		
Lenticular Rigging	Without Backstay No		
Articulated Bowsprit No			
P 13.850	E 4.750	MDT1 0.099	MW 0.174
IG 13.808	J 4.027	MDL1 0.174	GO 0.194
ISP 15.163	SFJ 0.100	MDT2 0.098	BD 0.150
BAS 1.313	SPL 0.000	MDL2 0.128	MWT 83.00
FSP 0.066	TPS 5.631	TL 1.360	MCG 5.160



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2015 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.405		
Type Folding 2 blades	PBW 0.105		
Twin Screw	PIPA 0.0039		
ST1 0.065	ST3 0.180	ST5 0.324	
ST2 0.180	ST4 0.110	EDL 1.765	

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COMMENTS	
0707/555556	

MOVEABLE BALLAST	
N/A	



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CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	HB	MGT	MGU	MGM	MGL	Area Area (r) Formula
	1.500	1.85	2.54	3.47	4.17	45.77 47.13 P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)
Symmetric						
Not Available						
Asymmetric						
	SLU	SLE	ASL	AMG	ASF	114.68 ASL · (ASF + 4·AMG) / 6
	16.95	14.70	15.82	8.52	9.40	

HEADSAILS											
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)											
JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material Comment
0.07	0.87	1.71	3.40	5.09	6.80	15.58	53.07		Y		Unknow Code 0
0.10	0.61	1.14	2.20	3.25	4.27	13.62	29.79				Unknow

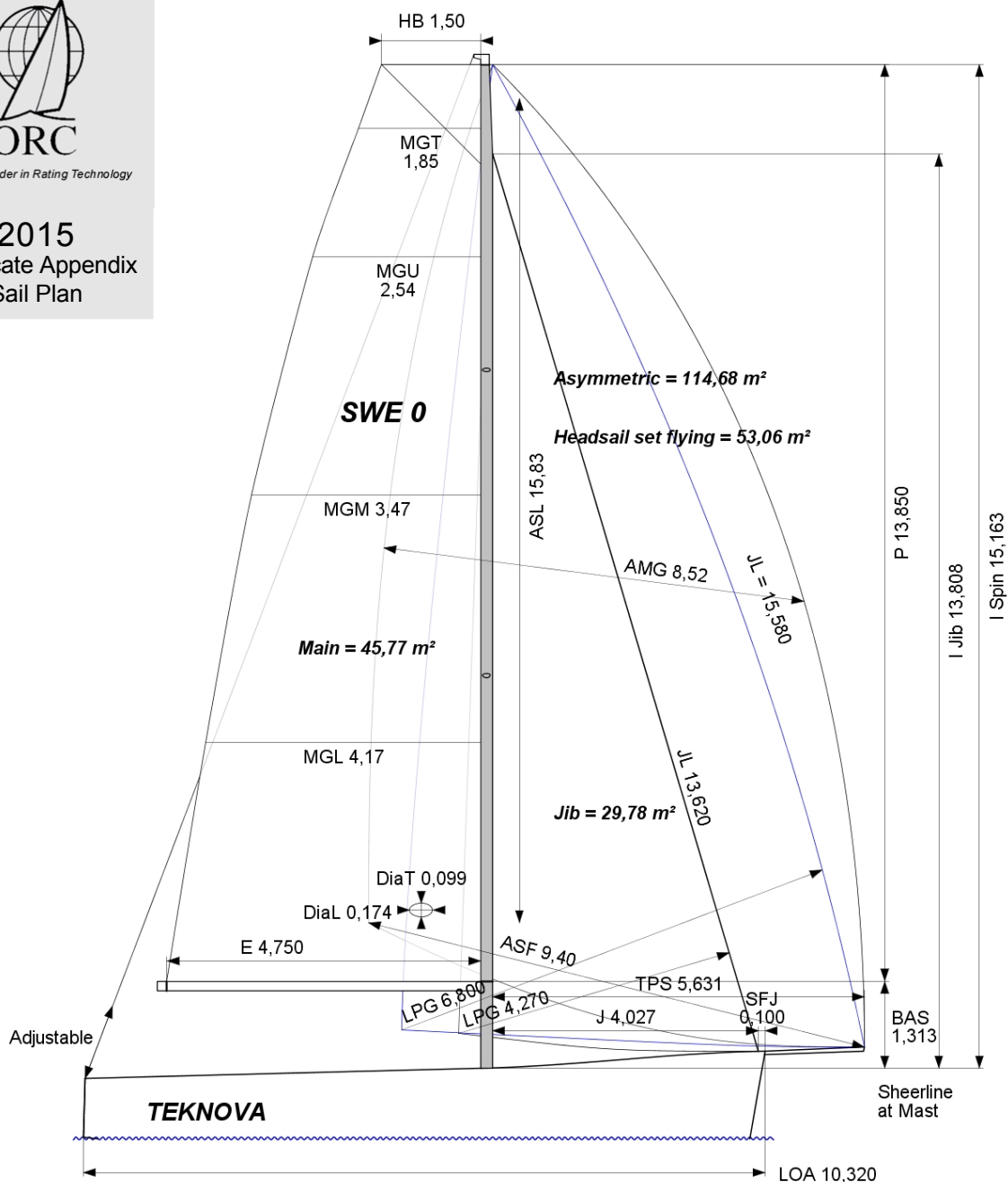
MEASUREMENT INVENTORY				
Measurer T.Andersson				
Date 06/06/2015				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
+	Anchor	0.0	0.00	
+	Chain	0.0	0.00	
+	Tools	0.0	0.00	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Volvo Penta	D1-20 F	
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Description</i>	
+	Deck-Gear	0.0		
+	Fwd-Items	0.0		

MEASUREMENT INVENTORY						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtm Description</i>
1	Tank Fuel		PVC	30.0	7.25	5.0
2	Tank Water		PVC	120.0	6.10	0.0 2 Pc.
3	Tank Holding		PVC	25.0	3.90	0.0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
1	Ballast	0.0	0.00			
1	Battery	33.7	5.80			
2	Battery	14.0	5.80			
1	Misc	0.0	0.00			



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2015
Certificate Appendix
Sail Plan



SAILS INVENTORY																
MAINSAIL																
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	1.500	1.85	2.54	3.47	4.17	45.77				Unknown						
HEADSAILS																
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.07	0.87	1.71	3.40	5.09	6.80	15.58	169%	53.07		Y				Unknown	Code 0
1	0.10	0.61	1.14	2.20	3.25	4.27	13.62	106%	29.79						Unknown	
SYMMETRIC SPINNAKERS																
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment							
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	16.95	14.70	15.82	8.52	9.40	114.68	asym				Unknown					
1	16.95	14.70	15.82	8.52	9.40	114.68	asym				Unknown					