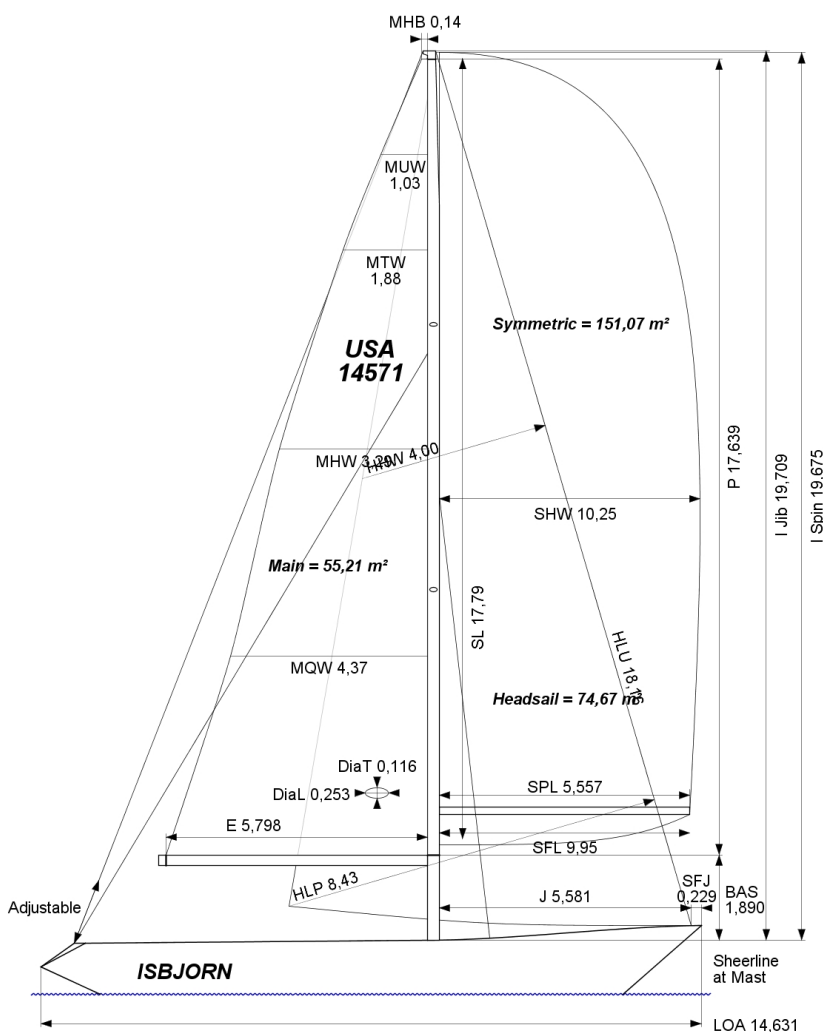




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2020
ORC Club
Certificate

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Certificate

Number **US6555**
Issued On **02/07/2020**
ORC Ref **03410000LSW**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 867kg
Maximum **463kg**
Minimum* **347kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **638.2 0.9401**
Non Spin OSN **620.7 0.9666**

Sails Limitations

Headsails **6** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes 151.07**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 10.147

Stability (Measured)

Limit Positive Stab.: **118.2°**
Stability Index: **128.5**

Owner

BOAT		GPH		HULL	
Name ISBJORN		611.1		Data File	US6555 LOA 14.631m
Sail Nr USA 14571				Offset File	SWN48S&S.off MB 4.152m
				Displacement	16,559kg Draft 2.392m
CLASS				IMS Division	Cruiser/Racer Dynamic All. 0.537%
				Plan Review	Construction Solid
				Fiber Rigging	No Aramid Core No
				Crew Arm Ex	Carbon Rudder No
					Light Stanchions No
				IMSL	11.662m VCGD -0.031m Sink 29.54kg/mm
				RL	8.632m VCGM -0.024m WS 43.47m²
				LSM0	11.758m Displacement/Length ratio 10.1867
COMMENTS				Water Ballast	0 Trim Tab No
				BLR Index	0.0000
				CENTERBOARD	
PROPELLER				N/A	
Installation		Shaft exposed	PRD 0.513		
Type		Feathering 3 blades	PBW 0.183		
			PIPA 0.0097		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	594.4			666.3		
Time on Time	1.0094			1.0130		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	700.2	541.7	483.6	898.6	674.7	580.1
Time on Time	0.9640	1.2461	1.3959	0.7512	1.0004	1.1636

2020

ORC Club Certificate Appendix

BOAT			
Name	ISBJORN	Certificate Number	US6555
Sail Nr	USA 14571	Issued On	02/07/2020

TIME ALLOWANCES								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	999.9	841.6	762.6	718.7	694.8	681.7	675.8	
52°	661.8	567.2	509.4	483.8	473.2	467.6	463.1	
60°	630.7	540.6	490.2	468.8	458.2	453.2	448.9	
75°	608.5	520.9	477.2	458.2	446.4	437.8	430.2	
90°	613.8	524.8	476.7	455.7	442.7	432.3	415.7	
110°	639.0	529.5	471.8	448.0	434.7	427.0	414.4	
120°	654.6	543.0	477.8	450.6	433.4	418.5	401.9	
135°	717.7	590.4	508.9	466.3	445.0	428.7	398.3	
150°	844.7	673.0	575.9	507.5	467.6	447.1	416.6	
Run VMG	975.4	777.2	664.4	582.5	525.9	482.4	440.1	
Selected Courses								
Windward / Leeward	987.6	809.4	713.5	650.6	610.3	582.1	558.0	
Circular Random	839.7	679.2	593.0	542.9	512.3	492.9	471.2	
Coastal / Long Distance	986.4	761.6	639.8	562.6	521.0	490.8	449.1	
Non Spinnaker	888.5	713.9	618.8	562.5	527.4	504.6	477.8	

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	42.4°	40.5°	41.3°	42.0°	41.3°	40.9°	41.3°	
Beat VMG	3.60	4.28	4.72	5.01	5.18	5.28	5.33	
52°	5.44	6.35	7.07	7.44	7.61	7.70	7.77	
60°	5.71	6.66	7.34	7.68	7.86	7.94	8.02	
75°	5.92	6.91	7.54	7.86	8.06	8.22	8.37	
90°	5.86	6.86	7.55	7.90	8.13	8.33	8.66	
110°	5.63	6.80	7.63	8.04	8.28	8.43	8.69	
120°	5.50	6.63	7.53	7.99	8.31	8.60	8.96	
135°	5.02	6.10	7.07	7.72	8.09	8.40	9.04	
150°	4.26	5.35	6.25	7.09	7.70	8.05	8.64	
Run VMG	3.69	4.63	5.42	6.18	6.85	7.46	8.18	
Gybe Angles	145.0°	150.5°	152.0°	153.0°	162.0°	180.0°	180.0°	