

HIGH PERFORMANCE RULE V.4h1 2014



Boat Name: **SALT**
 Class: **C & C 30**
 Certificate: **Annapolis Fall Regatta**
 Sail Number: **USA 30002**
 Issue Date: **10/30/14 17:39**

Owner: **Max Buerman**

Owner Signature: _____

Certificate Fee: **\$240.19** (\$26.25/m LOA)
 Change Fee: **\$0.00**

Hull	
LOA	9.150
FO	0.01
Y	0.04
Age Date	2014
BM	2.980
FF	1.086
FBI	0.993
FA	0.715
DRA	2.255
CW	525
Dempty	1875
Pre HPR	0.000

Spars	
J	3.44
P	12.752
E	4.33
IG	12.438
ISP	14.249
BAL	0.157
BD	0.133
BAS	1.312
FSP	0
CPD	0.15
CPW	1
SWA	1
MW	8
CG	4.9
B	0.000
BC	2.043
Runners	0
Spreaders	2
TPS	5.672
TPSmax	6.155
TPS Excess	0.000

Mainsail	
HB	1.05
MGT	1.51
MGU	2.14
MGM	3.06
MGL	3.7
Meas Main	36.81
Rated Main	37.82
Jib	
Jib luff	52
LPG	3.07
LP	3.07
JH	0.0
JGT	0.80
JGU	1.050
JG	1.900
JGL	2.720
Jib Area	23.128
JSA + MSA	60.94

Measured / Calculated	Meas Val	Base Val	Reference Only	
			Meas - Base	PD- Percent Difference
Beam	2.980	3.218	-0.238	-0.074
Meas Freeboard - R	2.93	1.022	-0.090	-0.088
Meas Draft	2.255	2.253	0.002	0.001
Meas/Calc VCG	-0.156	-0.484	0.328	-0.678
Meas Cr Wt - CW	525	435	90.0	0.207
Displ Dempty	1875	1920	-45	-0.023
MSA	62.020	63.5	-1.45	-0.023
Spinnaker	119.466	119.2	0.27	0.002
Rig Height	14.249	14.42	-0.167	-0.012

KWT	
KVCG	0.000
HCGic	0.545
HWTic	1791.4
VCG-comp	0.000
VCG-incl	-0.15

RUD2	N
PSP	Y
AC	0
HDHM	0
SPHM	0
EOSC	Y

0.39 23.77 = JSA min
 0.44 26.82 = JSA max

Ayso	
SLU	16.13
SLE	14.07
AMG	9.46
ASF	9.63
AYSO	119.47

15.10958 **MGMH** 6.680 < ORC-RS 109.1
MGLH 3.341 "
MGUH 10.023 "
MGTH 11.733 "

Final Calculation		
Length	L	9.1500
Age Plus Pre HPR	AGEc	1.0000
Beam	BMc	0.9972
Freeboard	FRc	1.0000
Draft	DRAc	1.0000
VCG	VCGc	0.9830
Crew Factor	CFc	1.0170
Displacement	Demptyc	1.0028
Upwind Sail Area	USAc	0.9971
Spinnaker Area	SPAc	1.0002
Rig Height	RHc	0.9986
Robust Mast	RMASTc	1.0000
Appendage	APc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	0.9900
Preliminary Rated Length == >		8.8634
Rated Length Lower Limit == >		8.6925
Final Rated Length ===== >		8.8634

TCF **0.8733**
 Seconds per mile **632.1**

RULE WARNINGS / FAILURES

IG	
LP	
TPS	
MIN RATED LENGTH	
VCG SOURCE	
OFFSETS FILE / INCLINATION	
NO BOOM WGT: SMALL RATED LENGTH PENALTY	

Final Rating is in Units of Length
 TCF is calculated from the Final Rating by the formula:
 $TCF = (L/12.2)^{4.424}$
 A boat with Rated Length 12.2m will have a TCF of 1.000
 Seconds per mile = 552 / TCF

1+.002*age
 .002*age

Website: www.hprsailing.org
www.offshoreracingrule.org
 Contacts: Bill Lee (Rule, Primary Contact) wizard@fastisfun.com
 Jim Teeters (Technical) jim@tytech.org
 Dobbs Davis (Communications) dobbs@hprsailing.org



Bill's color code	
Inputs	1-7
Intermediate Calculations	2-1
Base or Max	1-10
Correctors	1-3
Final Rating	1-9

Corrector Guide
 1.000 - Measured Value Equals Base Value
 > 1.0000 - Measured Value is slower than Base Value
 <1.0000 - Measured Value is faster than Base Value

L value = Yellow indicates AGE applies