

# HIGH PERFORMANCE RULE V.4h1 2015



Boat Name:	<b>HAMACHI</b>
Class:	J125
Certificate:	2015 Big Boat
Sail Number:	USA13696
Issue Date:	9/9/15 15:16

Owner: Greg Slyngstad

Owner Signature: \_\_\_\_\_

high performance rule

Certificate Fee:  
Change Fee:

**\$100.00**

Hull	
LOA	12.527
FO	0.37
Y	0.1
Age Date	1999
BM	3.194
FF	1.2908
FBI	0.994
FA	0.7922
DRA	2.477
CW	862
Dempty	4219.5
Pre HPR	0.030

Spars	
J	4.471
P	14.182
E	5.486
IG	14.944
ISP	15.874
BAL	0
BD	0.162
BAS	1.518
FSP	0.064
CPD	0.135
CPW	1
SWA	15.11
MWT	140.2
MCG	5.05669
BWT	0.000
BCG	2.344

Mainsail	
HB	0.2
MGT	1.3
MGU	2.27
MGM	3.7
MGL	4.7
Meas Main	48.03
Rated Main	49.50
Jib	
Jib luff	14.92
LPG	6.890
LP	6.954
JH	0.100
JGT	0.885
JGU	1.720
JGM	3.430
JGL	5.140
Jib Area	52.288
JSA + MSA	101.79

0.39 39.70 = JSA min  
0.44 44.79 = JSA max

Ayso	
SLU	18.28
SLE	16.27
AMG	11.37
ASF	11.98
AYSO	165.44

15.1096 MGMH 7.461 < ORC-RS 109.1  
MGLH 3.756 "  
MGUH 11.053 "  
MGTH 12.737 "

Measured / Calculated	Meas Val	Base	Base Val	Reference Only	
				Meas - Base	PD- Percent Difference
Beam	3.194	Bmaxb	3.792	-0.598	-0.158
Meas Freeboard - FR	1.026	FRb	1.158	-0.132	-0.114
Meas Draft - DRA	2.477	DRAb	2.842	-0.365	-0.128
Meas/Calc - VCG	-0.5124	VCGb	-0.796	0.283	-0.356
Meas Crew Wt - CW	862	CWb	761	101.0	0.133
Displ - Dempty	4220	Demptyb	3977	243	0.061
USA	101.790	USAb	106.3	-4.54	-0.043
Spinnaker	165.437	SPINb	182.8	-17.37	-0.095
Rig Height	15.874	RHb	18.54	-2.668	-0.144

Final Calculation		
Length	L	12.1570
Age Plus Pre HPR	AGEc	0.9460
Beam	BMc	0.9934
Freeboard	FRc	1.0000
Draft	DRAc	0.9942
VCG	VCGc	0.9778
Crew Factor	CFc	1.0039
Displacement	Demptyc	0.9924
Upwind Sail Area	USAc	0.9933
Spinnaker Area	SPAc	0.9905
Rig Height	RHc	0.9812
Robust Mast	RMASAc	1.0000
Appendage	Apc	1.0000
Engine-Propeller	EPc	0.9829
Construction Cost	CCc	0.9900
Preliminary Rated Length == >		10.3932
Rated Length Lower Limit == >		10.6982
Final Rated Length ===== >		10.6982

TCF **0.9458**  
Seconds per mile **583.6**

## RULE WARNINGS / FAILURES

IG	
LP	
TPS	
MIN RATED LENGTH	MINIMUM RATED LENGTH APPLIED
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:  
 $TCF = (L/12.2)^{.424}$   
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](http://www.hprsailing.org)

[www.offshoreracingrule.org](http://www.offshoreracingrule.org)

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Bill's color code	
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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