

12

INTERNATIONAL TWELVE METRE CLASS

Yacht's Name Kiwi Magic

National letters and Sail Number KZ 7 Club

Designer Farr / Holland / Davidson

Builder Marten Marine Building Year 1986

Owner J. Blach Petersen: Business Development A/S

Owner's Address Strandvejen 112
8000 Århus C: Denmark

Lloyds R class certificate (Number or Date)

RATING CERTIFICATE

This yacht has been measured by measurer(s) appointed by the International Twelve Metre Association and has been found to rate not more than 12.000 metres.

This certificate is dated September 17, 2012

Measurer Williams/Sironi/McAlpine Signature Ander

Valid until September 17, 2014

Supersedes August 17, 2009

Signature 
ITMA Technical Director



Stamp of Authority of the
International Twelve Metre Association

PROVISIONAL CERTIFICATE REVALIDATION

This yacht has been declared by the Owner to be unchanged from her previous revalidated certificate dated September 17, 2012. Accordingly this certificate has been revalidated and remains valid until March 20, 2020 subject to a successful flotation being carried out by a class measurer prior to racing.


Signature  March 21, 2018
ITMA Technical Director

Successful flotation carried out
July 2019 in Newport RI.



RATING CALCULATION

OVERALL LENGTH							19.415
Overhang Forward to L1						2.171	
Overhang Aft to L1						2.020	
Total Overhang (Subtract)						4.191	
MEASURED LENGTH (L1 L1)							15.224
Girth at Bow						1.701	
Twice vertical Height at Bow (Subtract)						1.200	
O at Bow						0.501	
Add 1 1/2 O at Bow (min 0.540 m)						0.752	
Girth at Stern						3.362	
Twice vertical Height at Stern (Subtract)						1.886	
O at Stern						1.476	
Add 1/3 O at Stern (min 0.400 m)						0.492	
Add any penalty (Beam)						0.000	
Sum of Length and Girth Corrections							16.468
Age Date and Allowance	1986	Allowance		1.000			
CORRECT LENGTH L							16.468
Skin d to d1 Port						3.254	
Chain d to d1 Port						3.247	
d Port						0.007	
Skin d to d1 Starboard						3.253	
Chain d to d1 Starboard						3.246	
d Starboard						0.007	
Add d						0.014	
Add GIRTH 2 d							0.028
Mean Freeboard Bow O		Actual	1.351		1.351		
Mean Freeboard Midship d		Actual	1.119		1.119		
Mean Freeboard Stern O		Actual	1.123		1.115		
Sum of Freeboards					3.585		
Subtract FREEBOARD, F					See Notes		1.193
Add SAIL AREAS (Square root)							13.138
TOTAL OF MEASUREMENTS							28.441
PENALTY (Draught)						0.000	
RATING							12.000

Date and place of Measurement	September 17, 2012		
Measurer's Name(s)	Williams/Sironi/McAlpine	Signature	
Provisional Certificate Revalidated	March 21, 2018	Certificate valid until	Mar 20, 2020

PENALTIES

Overhang Forward to L	2.775	
Overhang Aft to L	2.956	
Subtract from overall length	5.731	
Difference of imersion from salt to fresh water		
WATERLINE LENGTH		13.684
Minimum Displacement for Zero Penalty [m3]	24.057	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	24.659	
WEIGHT [tonne] Actual weight		25.090
Equivalent LWL (for Displ. < min.)	13.777	
Difference	0.093	
DISPLACEMENT PENALTY (add to L)		0.000
DRAUGHT (actual)	2.687	
Max. Draught for Zero Penalty	2.689	
Difference (if positive)		
DRAUGHT PENALTY (add to Rating)		0.000
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	3.630	
Difference (if positive)	-0.030	
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.000	
Extreme Beam		
Beam at deck		
Difference (if positive)	0.000	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and place of Measurement

September 17, 2012

Measurer's Name(s)

Williams/Sironi/McAlpine

Signature



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SAIL PLAN

Max Height of Sail Plan =	<input type="text" value="25.000"/>	J=	<input type="text" value="7.725"/>	I =	<input type="text" value="18.750"/>
Boom Height =	<input type="text" value="1.550"/>	A=	<input type="text" value="23.450"/>	B=	<input type="text" value="9.470"/>
Rated Mainsail Area	<input type="text" value="111.036"/>	Spi boom=	<input type="text" value="7.725"/>	eS=	<input type="text" value="13.138"/>
Rated Foretriangle Area	<input type="text" value="61.559"/>	Propeller allowance	<input type="text" value="1.000"/>		
TOTAL RATED SAIL AREA	<input type="text" value="172.594"/>	Corrected sail area	<input type="text" value="172.594"/>		

SAIL LIMITS

Mainsail max girth:	1/2 height (68%)	<input type="text" value="6.440"/>	3/4 height (41%)	<input type="text" value="3.883"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="12.525"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.656"/>	max. luff length=	<input type="text" value="18.723"/>

Spar Measurement

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text" value="460"/>	CG pos.	<input type="text" value="9.770"/>
Mast dimensions [mm]	Deck <input type="text" value="340x250"/>	Half-Height <input type="text" value="340x250"/>	Jib-Halyard <input type="text" value="282x207"/>	Head <input type="text" value="167x128"/>	
Sections area [cm ²]	<input type="text" value="667"/>	<input type="text" value="667"/>	<input type="text" value="458"/>	<input type="text" value="168"/>	

Engine/Propeller Installation


Engine and propeller weight	<input type="text" value="None"/>	Propeller diameter =	<input type="text" value="None"/>
Minimum boat speed with engine	<input type="text"/>	Propeller position =	<input type="text"/>
Engine model and power	<input type="text"/>		

Flotation

Internal Ballast	Amount	Location from Bow
Lead Pigs	924 kgs	11.5 m
Lead Pigs	1276 kgs	12.71m

Measurer's Notes

1	New Keel 2005
2	New Bow 2007
3	New Keel 2008

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