

# 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 [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 [Signature] March 21, 2018  
ITMA Technical Director

# RATING CALCULATION

<b>OVERALL LENGTH</b>			<b>19.415</b>
Overhang Forward to L1		2.171	
Overhang Aft to L1		2.020	
Total Overhang (Subtract)		4.191	
<b>MEASURED LENGTH (L1 L1)</b>			<b>15.224</b>
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)		<b>0.752</b>	
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)		<b>0.492</b>	
Add any penalty (Beam)		<b>0.000</b>	
Sum of Length and Girth Corrections			<b>16.468</b>
Age Date and Allowance	1986	Allowance	1.000
<b>CORRECT LENGTH L</b>			<b>16.468</b>
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	
<b>Add GIRTH 2 d</b>			<b>0.028</b>
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
<b>Subtract FREEBOARD, F</b>			See Notes
<b>Add SAIL AREAS (Square root)</b>			<b>1.193</b>
<b>TOTAL OF MEASUREMENTS</b>			<b>13.138</b>
<b>PENALTY (Draught)</b>			<b>28.441</b>
<b>RATING</b>			<b>0.000</b>
<b>RATING</b>			<b>12.000</b>

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		
<b>WATERLINE LENGTH</b>		<b>13.684</b>
Minimum Displacement for Zero Penalty [m3]	24.057	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	24.659	
<b>WEIGHT [tonne]</b> Actual weight		<b>25.090</b>
Equivalent LWL (for Displ. < min.)	13.777	
Difference	0.093	
DISPLACEMENT PENALTY (add to L)		<b>0.000</b>
<b>DRAUGHT (actual)</b>	2.687	
Max. Draught for Zero Penalty	2.689	
Difference (if positive)		
DRAUGHT PENALTY (add to Rating)		<b>0.000</b>
<b>BEAM (Min)</b>	3.600	
Max Beam at 1/3 of Midship Freeboard	3.630	
Difference (if positive)	-0.030	
BEAM PENALTY (add to L)		<b>0.000</b>
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)		<b>0.000</b>


Date and place of Measurement

September 17, 2012

Measurer's Name(s)

Williams/Sironi/McAlpine

Signature



Provisional Certificate Revalidated

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## SAIL PLAN

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

**SAIL LIMITS**

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

## Spar Measurement

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

## Engine/Propeller Installation

Engine and propeller weight	None	Propeller diameter =	None	
Minimum boat speed with engine		Propeller position =		
Engine model and power				

## 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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