

# 12



## INTERNATIONAL TWELVE METRE CLASS

Yacht's Name	<i>SOUTH AUSTRALIA</i>	
National letters and Sail Number	<i>KA-8</i>	Club
Designer	<i>Ben Lexen</i>	
Builder	<i>S.E. Ward &amp; Co</i>	Building Year <i>1985</i>
Owner	<i>Christophe Babule</i>	
Owner's Address	<i>121 Avenue Wagram 75017 Paris</i>	
Lloyds R class certificate (Number or Date)	<i>Lloyds</i>	

### 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: 22/09/2023

Measurer Kay-Enno Brink Signature 

Valid until 21/09/2025

Supersedes \_\_\_\_\_

Is this an **Appendix E** Certificate? Y / N  N

Was **Appendix F** used for Measurement? Y / N  N

Signature   
ITMA Technical Director



Stamp of Authority of the  
International Twelve Metre Association

Yacht's name : SOUTH AUSTRALIA

Date

22/09/2023

**RATING CALCULATION****OVERALL LENGTH**

Overhang Forward to FGS

2.005

Overhang Aft to AGS

2.535

Total Overhang (Subtract)

4.540

**19.512****MEASURED LENGTH (L<sub>BG</sub>)**

Girth at Bow

1.624

Twice vertical Height at Bow (Subtract)

1.200

Girth Difference at FGS

0.424

Add 1.5 Girth Difference at FGS (min 0.540 m)

**0.636**

Girth at Stern

3.424

Twice vertical Height at Stern (Subtract)

1.726

Girth Difference at AGS

1.698

Add 1/3 Girth Difference at AGS (min 0.400 m)

**0.566**

Add any penalty (Beam or Displacement)

**0.000**

Sum of Length and Girth Corrections

**16.174**

Age/Date Correction Factor (ADCF)(see page 3)

1.0000

**LENGTH (L)**

Skin IM to d1 Port

3.385

Chain IM to d1 Port

3.383

d Port

0.002

Skin IM to d1 Starboard

3.385

Chain IM to d1 Starboard

3.383

d Starboard

0.002

Add d

0.004

**0.008****Add GIRTH 2 d**

Mean Freeboard Bow

Datum Sta.	Actual Sta.	Rating FB
	1.361	1.361
	1.077	1.077
	1.043	1.043
		3.481

Mean Freeboard Midship

1.077

Mean Freeboard Stern

1.043

Sum of Freeboards

3.481

**Subtract FREEBOARD, F**

See Notes

**1.141****Add SAIL AREAS (Square root)****13.399****TOTAL OF MEASUREMENTS****28.441**

PENALTY (Draft or Tumblehome)

0.000

**RATING****12.000**

Date and Place of Measurement

22/09/2023 Villeneuve-Loubet

Measurer's Name(s)

Kay-Enno Brink

Signature



Yacht's name : <b>SOUTH AUSTRALIA</b>		Date	22/09/2023
Range Measurement (Yes or No)	N	Date:	22/09/2023

## PENALTIES

Overhang Forward to <b>MWL</b>	2.663		
Overhang Aft to <b>MWL</b>	3.445		
Subtract from overall length	6.108		
Difference of immersion from salt to fresh water	Meas. Density		
<b>WATERLINE LENGTH (LWL)</b>			<b>13.404</b>
Minimum Displacement for Zero Penalty [m3]	22.684		
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	23.252		
<b>WEIGHT [tonne]</b> Actual weight			<b>24.320</b>
Equivalent LWL (for Displ. < min.)	13.618		
Difference	0.214		
DISPLACEMENT PENALTY (add to L)			<b>0.000</b>
Displacement Determination Method	unknown		
<b>DRAFT (actual)</b>	2.636		
Max. Draft for Zero Penalty	2.645		
Difference (if positive)	0.000		
DRAFT PENALTY (add to Rating)			<b>0.000</b>
<b>BEAM (Min)</b>	3.600		
Max Beam at 1/3 of Midship Freeboard	3.800		
Difference (if positive)			
BEAM PENALTY (add to L)			<b>0.000</b>
Tumblehome Max. (2 x 2% of Extr. Beam)	0.152		
Extreme Beam	3.800		
Beam at deck	3.772		
Difference (if positive)	0.028		
TUMBLEHOME PENALTY (add to Rating)			<b>0.000</b>

Date and Place of Measurement	22-Sep-23 Villeneuve-Loubet	
Measurer's Name(s)	Kay-Enno Brink	Signature

Design/Age Correction Factor Calculation			
Age Date	1985		
ADCF ( Table E-2)	1		
Hull Alteration Scope and Date			
Appendage Change Scope and Date			
Change/Alteration Correction ADCF			
Accommodation Deficiency Ballast	not applicable to division A		

Yacht's name : SOUTH AUSTRALIA

Date

22/09/2023

**SAIL PLAN**

Max Height of Sail Plan =	<input type="text" value="24.975"/>	J=	<input type="text" value="7.760"/>	I =	<input type="text" value="18.750"/>
Boom above Mast Datum =	<input type="text" value="1.504"/>	P=	<input type="text" value="23.471"/>	E=	<input type="text" value="10.030"/>
Rated Mainsail Area	<input type="text" value="117.707"/>	Spi boom=	<input type="text" value="7.730"/>	√S=	<input type="text" value="13.399"/>
J used for Rating	<input type="text" value="7.760"/>				
Rated Foretriangle Area	<input type="text" value="61.838"/>	Propeller allowance		<input type="text" value="1.000"/>	
TOTAL RATED SAIL AREA (S)	<input type="text" value="179.545"/>	Corrected sail area		<input type="text" value="179.545"/>	

**SAIL LIMITS**

Mainsail max girth:	1/2 height (68% of E)	<input type="text" value="6.820"/>	3/4 height (41% of E)	<input type="text" value="4.112"/>
Genoa:	max. foot length (J + 4.8m)	<input type="text" value="12.560"/>		
Spinnaker:	1/2 foot max breadth (125% J)	<input type="text" value="9.700"/>	max. luff length=	<input type="text" value="18.734"/>

**Spar Measurement**

MAST (material)	<input type="text" value="Aluminium"/>	Mast Weight	<input type="text" value="459"/>	CG pos.	<input type="text" value="10.000"/>
Mast dimensions [mm]	Deck <input type="text" value="315*250"/>	Half-Height <input type="text" value="315*250"/>	Jib-Halyard <input type="text" value="270*200"/>	Head <input type="text" value="160*130"/>	
Sections area [cm <sup>2</sup> ]	<input type="text" value="618"/>	<input type="text" value="618"/>	<input type="text" value="424"/>	<input type="text" value="163"/>	
Mast CG Correction (if applicable) Wt & CG	<input type="text" value="-"/>		Mk <sup>2</sup>	<input type="text" value="-"/>	

**Engine/Propeller Installation**

Engine and propeller weight	<input type="text" value="none"/>	Propeller diameter =	<input type="text" value="-"/>
Minimum boat speed with engine	<input type="text" value="-"/>	Propeller position =	<input type="text" value="-"/>
Propeller Type (folding feathering fixed pitch etc.), no of blades		<input type="text" value="-"/>	<input type="text" value="-"/>
Propeller Skew		<input type="text" value="-"/>	<input type="text" value="-"/>

**Flotation**

1	Two batteries 12V 110 Ah	located 2.6 m aft of the mast
2	Internal ballast in the bilge, 65 kg	located 3.0 m in front of the mast

**Measurer's Notes**

1 Rear L-Mark is not attached to the hull and needs to be fitted.

Date and Place of Measurement

22/09/2023 Villeneuve-Loubet

Measurer's Name(s)

Kay-Enno Brink

