

12



INTERNATIONAL TWELVE METRE CLASS

Yacht's Name	FRANCE		
National letters and Sail Number	F-1	Club	Yacht Club de France
Designer	André Mauric		
Builder	Egger	Building Year	1971
Owner	Association AFCA		
Owner's Address	1261 chemin des Ourlèdes, 83400 Hyères		

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:	<u>01/03/2023</u>	Signature	
Measurer	<u>Kay-Enno Brink</u>		
Valid until	<u>31-Dec-23</u>		
Supersedes	_____		
Is this an Appendix E Certificate?	Y / N	<input checked="" type="checkbox"/> Y	 INTERNATIONAL TWELVE METRE ASSOCIATION
Was Appendix F used for Measurement?	Y / N	<input type="checkbox"/> N	
Signature	_____		
	ITMA Technical Director		Stamp of Authority of the International Twelve Metre Association

Yacht's name : FRANCE

Date

01/03/2023

RATING CALCULATION**OVERALL LENGTH****19.040**

Overhang Forward to FGS

1.764

Overhang Aft to AGS

1.462

Total Overhang (Subtract)

3.226

MEASURED LENGTH (L_{BG})**15.815**

Girth at Bow

1.636

Twice vertical Height at Bow (Subtract)

1.200

Girth Difference at FGS

0.436

Add 1.5 Girth Difference at FGS (min 0.540 m)

0.654

Girth at Stern

3.229

Twice vertical Height at Stern (Subtract)

1.840

Girth Difference at AGS

1.389

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

0.463

Add any penalty (Beam or Displacement)

0.000

Sum of Length and Girth Corrections

16.932

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

0.9820

LENGTH (L)**16.627**

Skin IM to d1 Port

2.124

Chain IM to d1 Port

2.122

d Port

0.002

Skin IM to d1 Starboard

2.118

Chain IM to d1 Starboard

2.116

d Starboard

0.002

Add d

0.004

Add GIRTH 2 d**0.008**

Mean Freeboard Bow

Datum Sta. Actual Sta. Rating FB

Mean Freeboard Midship

1.383

1.383

Mean Freeboard Stern

1.141

1.141

Sum of Freeboards

1.100

1.100

3.624

Subtract FREEBOARD, F

See Notes

1.208**Add SAIL AREAS (Square root)****12.851****TOTAL OF MEASUREMENTS****28.277**

PENALTY (Draft or Tumblehome)

0.000

RATING**11.931**

Date and Place of Measurement

01/03/2023 Hyères

Measurer's Name(s)

Kay-Enno Brink

Signature



Yacht's name : FRANCE		Date	01/03/2023
Range Measurement (Yes or No)	N	Date:	01/03/2023

PENALTIES

Overhang Forward to MWL	2.476	
Overhang Aft to MWL	2.247	
Subtract from overall length	4.723	
Difference of immersion from salt to fresh water	Meas. Density	
WATERLINE LENGTH (LWL)		14.317
Minimum Displacement for Zero Penalty [m3]	27.363	
Minimum Weight for Zero Penalty [ton] (Water of sg 1.025)	28.048	
WEIGHT [tonne] Actual weight		28.403
Equivalent LWL (for Displ. < min.)	14.380	
Difference	0.063	
DISPLACEMENT PENALTY (add to L)		0.000
Displacement Determination Method	3D-Scan	
DRAFT (actual)	2.799	
Max. Draft for Zero Penalty	2.791	
Difference (if positive)	0.008	
DRAFT PENALTY (add to Rating)		0.000
BEAM (Min)	3.600	
Max Beam at 1/3 of Midship Freeboard	3.712	
Difference (if positive)		
BEAM PENALTY (add to L)		0.000
Tumblehome Max. (2 x 2% of Extr. Beam)	0.153	
Extreme Beam	3.828	
Beam at deck	3.828	
Difference (if positive)	0.000	
TUMBLEHOME PENALTY (add to Rating)		0.000

Date and Place of Measurement	01-Mar-23 Hyerés	
Measurer's Name(s)	Kay-Enno Brink	Signature

Design/Age Correction Factor Calculation		
Age Date	1971	
ADCF (Table E-2)	0.9820	
Hull Alteration Scope and Date	none	
Appendage Change Scope and Date	Rudder modification without effect on ADCF	
Change/Alteration Correction ADCF		
Accommodation Deficiency Ballast	not applicable to division B	

Yacht's name : FRANCE

Date

01/03/2023

SAIL PLAN

Max Height of Sail Plan =	24.964	J=	6.935	I =	18.750
Boom above Mast Datum =	1.364	P=	23.600	E=	9.430
Rated Mainsail Area	111.274	Spi boom=	7.075	√S=	12.851
J used for Rating	7.075				
Rated Foretriangle Area	56.379	Propeller allowance			0.985
TOTAL RATED SAIL AREA (S)	167.653	Corrected sail area			165.138

SAIL LIMITS

Mainsail max girth:	1/2 height (68% of E)	6.412	3/4 height (41% of E)	3.866
Genoa:	max. foot length (J + 4.8m)	11.735		
Spinnaker:	1/2 foot max breadth (125% J)	8.844	max. luff length=	18.532

Spar Measurement

MAST (material)	aluminium	Mast Weight	461	CG pos.	10.189
Mast dimensions [mm]	Deck	Half-Height	Jib-Halyard	Head	
	360*238	360*236	287*231	165*145	
Sections area [cm ²]	673	667	520	188	
Mast CG Correction (if applicable) Wt & CG			Mk ²		

Engine/Propeller Installation

Engine and propeller weight	450 kg	Propeller diameter =	0.533
Minimum boat speed with engine	> 8.0 kn	Propeller position =	on CL
Propeller Type (folding feathering fixed pitch etc.), no of blades		feathering	2
Propeller Skew			-

Flotation

- The flotation trim was checked on the 1st of March 2023 in Hyeres.
- All rating relevant hull dimensions refer to the actual flotation trim, as hull marks are misarranged.
On this basis the validity of the rating certificate is limited to the 31st of December 2023.

Measurer's Notes

- Draft and displacement penalties do not apply under Appendix E.
- Rated freeboard is one third of the sum of the mean freeboards.
Mast cross section dimensions deviating from class rule 27.2 however special dispensation has been granted by the ITMA Technical Committee in accordance with Interpretation 23/XX.
- The displacement was derived by means of a 3D hull scan.

Date and Place of Measurement

01/03/2023 Hyeres

Measurer's Name(s)

Kay-Enno Brink

