




12

INTERNATIONAL TWELVE METRE CLASS

| | | | |
|---|------------------------------------|------------------------------------|---------------|
| Yacht's Name | <u>SPHINX</u> | | |
| National letters and Sail Number | <u>G 4</u> | Club | <u>F.S.C.</u> |
| Designer | <u>Abeking & Rasmussen</u> | | |
| Builder | <u>Abeking & Rasmussen</u> | Building Year | <u>1939</u> |
| Owner | <u>Eignergemeinschaft "SPHINX"</u> | | |
| Owner's Address | <u>Flensburg</u> | <u>Dammweg 12, 24955 Harrislee</u> | |
| Lloyds R class certificate (Number or Date) | <u>Germanischer Lloyd</u> | | |

APPENDIX "E" 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>5-Jul-08</u> | Signature | <u>Nicola Chiari</u> |
| Measurer | <u>N Sironi</u> | Signature | |
| Valid until | <u>5-Jul-10</u> | | |
| Supersedes | <u></u> | | |
| Signature <u><i>Nicola Chiari</i></u> | |  | |
| ITMA Technical Director | | Stamp of Authority of the International Twelve Metre Association | |

CERTIFICATE REVALIDATION

This yacht has been declared by the Owner to be unchanged from her previous revalidated certificate dated 5 July 2008. Accordingly this certificate has been revalidated and remains valid until August 24, 2012 subject to a successful flotation being carried out by a class measurer prior to racing .

| | |
|---------------------------------------|-----------------|
| Signature <u><i>Nicola Chiari</i></u> | August 23, 2010 |
| ITMA Technical Director | |

RATING CALCULATION

OVERALL LENGTH

| | | |
|---------------------------|-------|--|
| Overhang Forward to L1 | 2.975 | |
| Overhang Aft to L1 | 3.225 | |
| Total Overhang (Subtract) | 6.200 | |

21.480

MEASURED LENGTH (L1 L1)

| | | |
|---|-------|--|
| Girth at Bow | 1.597 | |
| Twice vertical Height at Bow (Subtract) | 1.200 | |
| O at Bow | 0.397 | |
| Add 1 1/2 O at Bow (min 0.540 m) | 0.596 | |
| Girth at Stern | 3.275 | |
| Twice vertical Height at Stern (Subtract) | 1.470 | |
| O at Stern | 1.805 | |
| Add 1/3 O at Stern (min 0.400 m) | 0.602 | |
| Add any penalty (Beam) | 0.000 | |

15.280

Sum of Length and Girth Corrections

16.477

Age Date and Allowance

1939

Allowance

0.96

CORRECT LENGTH L

15.818

| | | |
|-------------------------|-------|--|
| Skin d to d1 Port | 2.075 | |
| Chain d to d1 Port | 2.060 | |
| d Port | 0.015 | |
| Skin d to d1 Starboard | 2.075 | |
| Chain d to d1 Starboard | 2.060 | |
| d Starboard | 0.015 | |
| Add d | 0.030 | |

Add GIRTH 2 d

0.060

| | | | | |
|--------------------------|--------|-------|-------|--|
| Mean Freeboard Bow O | Actual | 1.427 | 1.427 | |
| Mean Freeboard Midship d | Actual | 1.182 | 1.182 | |
| Mean Freeboard Stern O | Actual | 0.915 | 0.915 | |
| Sum of Freeboards | | | 3.524 | |

Subtract FREEBOARD, F

See Notes

1.175

Add SAIL AREAS (Square root)

13.441

TOTAL OF MEASUREMENTS

28.145

PENALTY (Draught)

0.000

RATING

11.875

Date and place of Measurement

5-Jul-08

Measurer's Name(s)

N Sironi

Signature



Certificate revalidated

August 23, 2010 Certificate valid until

August 23, 2012

PENALTIES

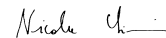
| | | |
|--|---------------|---------------|
| Overhang Forward to L | 3.537 | |
| Overhang Aft to L | 3.993 | |
| Subtract from overall length | 7.530 | |
| Difference of imersion from salt to fresh water | 0.000 | |
| WATERLINE LENGTH | | 13.950 |
| Minimum Displacement for Zero Penalty [m3] | 25.412 | |
| Minimum Weight for Zero Penalty [tonnes] (Water of sg 1.025) | 26.047 | |
| ACTUAL WEIGHT [tonnes] | | Append E |
| Equivalent LWL (for Displ. < min.) | | |
| Difference | | |
| DISPLACEMENT PENALTY (add to L) | | Append E |
| DRAUGHT (actual) | 2.714 | |
| Max. Draught for Zero Penalty | 2.732 | |
| Difference (if positive) | -0.018 | |
| DRAUGHT PENALTY (add to Rating) | | 0.000 |
| BEAM (Min) | 3.600 | |
| Max Beam at 1/3 of Midship Freeboard | 3.608 | |
| Difference (if positive) | 0.000 | |
| BEAM PENALTY (add to L) | | 0.000 |
| Tumblehome Max. (2 x 2% of Extr. Beam) | 0.144 | |
| Extreme Beam | 3.608 | |
| Beam at deck | 3.520 | |
| Difference (if positive) | 0.088 | |
| TUMBLEHOME PENALTY (add to Rating) | | 0.000 |

Date and place of Measurement

5-Jul-08

Measurer's Name(s)

N Sironi Signature



Certificate revalidated

August 23, 2010 Certificate valid until

August 23, 2012

Yacht's name : SPHINX

G 4

5-Jul-08

SAIL PLAN

| | | | | | |
|---------------------------|--------------------------------------|---------------------|--------------------------------------|-----|-------------------------------------|
| Max Height of Sail Plan = | <input type="text" value="25.000"/> | J= | <input type="text" value="7.000"/> | I = | <input type="text" value="18.740"/> |
| Boom Height = | <input type="text" value="1.520"/> | A= | <input type="text" value="23.480"/> | B= | <input type="text" value="10.640"/> |
| Rated Mainsail Area | <input type="text" value="124.914"/> | Spi boom= | <input type="text" value="7.000"/> | √S= | <input type="text" value="13.441"/> |
| Rated Foretriangle Area | <input type="text" value="55.752"/> | Propeller allowance | <input type="text" value="1.000"/> | | |
| TOTAL RATED SAIL AREA | <input type="text" value="180.665"/> | Corrected sail area | <input type="text" value="180.665"/> | | |

SAIL LIMITS

| | | | | |
|---------------------|-------------------------------|-------------------------------------|-------------------|-------------------------------------|
| Mainsail max girth: | 1/2 height (68%) | <input type="text" value="7.235"/> | 3/4 height (41%) | <input type="text" value="4.362"/> |
| Genoa: | max. foot length (J + 4.8m) | <input type="text" value="11.800"/> | | |
| Spinnaker: | 1/2 foot max breadth (125% J) | <input type="text" value="8.750"/> | max. luff length= | <input type="text" value="18.504"/> |

Spar Measurement

| | | | | | |
|----------------------------------|--|--|--|--|----------------------|
| MAST (material) | <input type="text" value="Wood"/> | Mast Weight | <input type="text"/> | CG pos. | <input type="text"/> |
| | Deck | Half-Height | Jib-Halyard | Head | |
| Mast dimensions [mm] | <input type="text" value="297 x 224"/> | <input type="text" value="318 x 236"/> | <input type="text" value="280 x 216"/> | <input type="text" value="153 x 134"/> | |
| Sections area [cm ²] | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | |

Engine/Propeller Installation

| | | | |
|--------------------------------|---------------------------------|----------------------|---------------------------------|
| Engine and propeller weight | <input type="text" value="NA"/> | Propeller diameter = | <input type="text" value="NA"/> |
| 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 |
|------------------|---------|--------------------|
| Nil | 210 kgs | 12.40 m aft of bow |

Measurer's Notes

- 1 Measured according to 1934 Rule
- 2 Age allowance take into account bermudian rig

| | | | |
|-------------------------------|----------|-------------------------|----------------------|
| Date and place of Measurement | 5-Jul-08 | Signature | <i>Nicola Sironi</i> |
| Measurer's Name(s) | N Sironi | Certificate valid until | August 23, 2012 |
| Certificate revalidated | | | |