Royal Yachting Association RYA House Romsey Road, Eastleigh Hampshire SO50 9YA Tel: (01703) 627400 Fax: (01703) 629924

11 FCENIGAL

2.4 METRE CLASS **CERTIFICATE OF RATING**

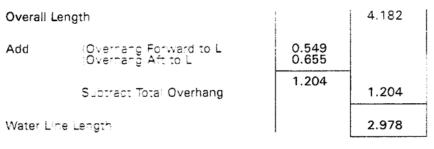
| | GER 793 | | |
|----------------------------|--------------------------------|--|--|
| SAIL NUMBER | GBR 28 AEY 53 | | |
| IYRU PLAQUE NUMBER | 793 | | |
| DESIGNER | PETER NORLIN | | |
| BUILDER | VENE-BJÖRNDAHL | | |
| WHEN BUILT | 1993 | | |
| MEASURED BY | STEFAN PYOTT (SWEDEN) | | |
| DATE MEASUREMENT COMPLETED | 13 JULY 1993 | | |
| DATE OF THIS CERTIFICATE | 7 JUNE 1995 | | |
| ISSUED BY | THE ROYAL YACHTING ASSOCIATION | | |
| | | | |
| RATING | 2.399 | | |

MEASUREMENTS

| Overall Length 0.432 (Overhang Forward to L1 (Overhang Aft to L1 | Overell Length | | 4.100 | T |
|---|---|-------------------------|--------|--------|
| Subtract Total Overhang 1.087 -1.087 Measured Length 3.095 Subtract (Girth at Bow (Twice Vertical Height at Bow O at Bow 0.312 0.240 O at Bow 0.072 Add 1 1/2 O at Bow 0.890 0.527 Subtract (Girth at Stern (Twice Vertical Height at Stern O.527) 0.363 Add 1/3 O at Stern 0.363 Add any penalty at O2 0.000 CORRECT LENGTH, L 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard (Chain d | • | | 4.182 | |
| Measured Length 3.095 Subtract (Girth at Bow (Twice Vertical Height at Bow) 0.312 (0.240) O at Bow 0.072 Add 1 1/2 O at Bow 0.890 (0.527) Subtract (Girth at Stern (Twice Vertical Height at Stern) 0.890 (0.527) O at Stern 0.363 Add 1/3 O at Stern 0.363 Add any penalty at O2 0.000 CORRECT LENGTH, L 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard) d Port 0.000 Subtract (Skin d to d1 Starboard) d Starboard 0.000 Add d 0.000 2d 0.000 Add to find sum of measurements 0.327 (Mean Freeboard Bow O (Mean Freeboard Stern O & O2 Sum of Freeboards 0.300 Subtract (1/3 sum) FREEBOARD, F (max 0.292) 0.918 √S 0.0292 3.032 2.654 Total of Measurements 5.686 | (Overhang Forward to L1 (Overhang Aft to L1 | 0.432 0.655 | | |
| Subtract (Girth at Bow (Twice Vertical Height at Bow 0.240 0.312 0.240 O at Bow 0.072 Add 1 1/2 O at Bow 0.890 0.527 Subtract (Girth at Stern (Twice Vertical Height at Stern O.527) O at Stern 0.363 Add 1/3 O at Stern 0.000 Add any penalty at O2 0.000 CORRECT LENGTH, L 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard (Chain d to d1 Star | Subtract Total Overhang | 1.087 | -1.087 | 1 1 |
| O at Bow 0.072 Add 1 1/2 O at Bow 0.890 Subtract (Girth at Stern (Twice Vertical Height at Stern O.527) 0.890 O at Stern 0.363 Add 1/3 O at Stern 0.121 Add any penalty at O2 0.000 CORRECT LENGTH, L 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard (Chain d to d1 Starboard (Chain d to d1 Starboard d) 0.000 3 Subtract (Skin d to d1 Starboard (Chain d to d1 Starboard d) 0.000 4 Starboard 0.000 Add d 0.000 Add to find sum of measurements 0.327 Add (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O2 0.291 Sum of Freeboards 0.918 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) 0.918 -0.292 3.032 -0.654 5.686 | Measured Length | | 3.095 | |
| Add 1 1/2 O at Bow 0.108 Subtract (Girth at Stern (Twice Vertical Height at Stern (Twice Vertical Height at Stern (O.527) 0.890 (0.527) O at Stern 0.363 Add 1/3 O at Stern 0.121 Add any penalty at O2 0.000 CORRECT LENGTH, L 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard (Chain d to d1 Starboard (Chain d to d1 Starboard dd d | Subtract (Girth at Bow (Twice Vertical Height at Bow | 0.312 0. 240 | | |
| Subtract (Girth at Stern (Twice Vertical Height at Stern (D.363) 0.121 Add 1/3 O at Stern (Add any penalty at O2 0.000 0.000 CORRECT LENGTH, L 3.324 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard (Chain d to d1 Starboard (Chain d to d1 Starboard dd d | O at Bow | 0.072 | | |
| (Twice Vertical Height at Stern 0.527 O at Stern 0.363 Add 1/3 O at Stern 0.121 Add any penalty at O2 0.000 CORRECT LENGTH, L 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard (Chain d to d1 Starboard (Chain d to d1 Starboard d) 0.000 d Starboard 0.000 Add d 0.000 2d 0.000 Add to find sum of measurements 0.327 Add (Mean Freeboard Bow O (Mean Freeboard Midships D 0.300 0.327 Owean Freeboards 0.918 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 √S 2.654 Total of Measurements 5.686 | Add 1 1/2 O at Bow | | 0.108 | |
| Add 1/3 O at Stern Add any penalty at O2 CORRECT LENGTH, L Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Port (Chain d to d1 Starboard d) d Starboard Add d 2d Add (Mean Freeboard Bow O (Mean Freeboard Stern O & O2 Sum of Freeboards Subtract (1/3 sum) FREEBOARD, F (-max 0.292) √S Total of Measurements O.000 O | | 0.890 0.527 | | |
| Add any penalty at O2 CORRECT LENGTH, L Subtract (Skin d to d1 Port (Chain d to d1 Port (Chain d to d1 Port) d Port Subtract (Skin d to d1 Starboard (Chain d to d1 Starboard) d Starboard d Starboard Add d Add to find sum of measurements Add (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O2 Sum of Freeboards Subtract (1/3 sum) FREEBOARD, F (-max 0.292) √S Total of Measurements 0.000 | O at Stern | 0.363 | | |
| CORRECT LENGTH, L 3.324 3.324 Subtract (Skin d to d1 Port (Chain d to d1 Port) 0.000 0.000 d Port 0.000 0.000 Subtract (Skin d to d1 Starboard (Chain d to d1 Starboard) 0.000 0.000 Add d 0.000 0.000 Add d to find sum of measurements 0.327 (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O2 | Add 1/3 O at Stern | | 0.121 | |
| Subtract (Skin d to d1 Port (Chain d to d1 Port) d Port 0.000 0.000 Subtract (Skin d to d1 Starboard (Chain d to d1 Starboard) 0.000 0.000 Add d 0.000 0.000 Add to find sum of measurements 0.327 (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O291 (Mean Freeboard Stern O & O291 (Mean Freeboard Stern O & O292) 0.918 Sum of Freeboards 0.918 -0.292 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 3.032 2.654 Total of Measurements 5.686 | Add any penalty at O2 | | 0.000 | |
| (Chain d to d1 Port 0.000 0.000 d Port 0.000 0.000 Subtract (Skin d to d1 Starboard (Chain d to d1 Starboard) 0.000 d Starboard 0.000 0.000 Add d 0.000 0.000 Add (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O2 0.327 (0.291 (0.300) Sum of Freeboards 0.918 0.292 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 (0.302) √S 2.654 Total of Measurements 5.686 | CORRECT LENGTH, L | | 3.324 | 3.324 |
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| d Starboard 0.000 0.000 Add d 0.000 0.000 2d 0.000 Add to find sum of measurements 3.324 Add (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O2) 0.291 (0.300) Sum of Freeboards 0.918 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 3.032 2.654 Total of Measurements 5.686 | d Port | 0.000 | 0.000 | 1 |
| Add d 2d Add to find sum of measurements Add (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O2 Sum of Freeboards Subtract (1/3 sum) FREEBOARD, F (-max 0.292) √S Total of Measurements O.000 0.000 0.327 0.291 0.300 0.918 -0.292 3.032 2.654 | Subtract (Skin d to d1 Starboard (Chain d to d1 Starboard | | | |
| 2d 0.000 Add to find sum of measurements 3.324 Add (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern 0 & 02 0.300) 0.291 0.300 Sum of Freeboards 0.918 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 3.032 2.654 Total of Measurements 5.686 | d Starboard | 0.000 | 0.000 | |
| Add to find sum of measurements Add | Add d | | 0.000 | 1 |
| Add (Mean Freeboard Bow O (Mean Freeboard Midships D (Mean Freeboard Stern O & O2 0.327 0.291 0.300 Sum of Freeboards 0.918 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 3.032 2.654 Total of Measurements 5.686 | 2d | | | 0.000 |
| Sum of Freeboards 0.918 Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 3.032 √S Total of Measurements 5.686 | Add to find sum of measurements | | | 3.324 |
| Subtract (1/3 sum) FREEBOARD, F (-max 0.292) -0.292 3.032 √S Total of Measurements 5.686 | | 0.327 0.291 0.300 | | |
| 3.032 √S 2.654 Total of Measurements 5.686 | Sum of Freeboards | 0.918 | | |
| √S 2.654 Total of Measurements 5.686 | Subtract (1/3 sum) FREEBOARD, F (-max 0.292) | | | -0.292 |
| Total of Measurements 5.686 | | | | 3.032 |
| 5.555 | √s | | | 2.654 |
| | Total of Measurements | | | 5.686 |
| Divide by 2.37 = RATING = 2.399 | Divide by 2.37 = RATING = | | | 2.399 |

12.4 GBR 281

OTHER MEASUREMENTS RECORDED BY MEASURER



Beam at 1 3 Height of Midship Freeboard

0.720

Tumble Home

NIL

Minimum measured freeboard when ballasted and swamped in accordance with rule 8.2

FLOATED

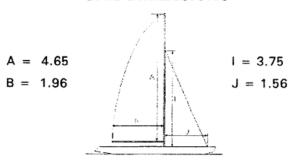
Weight recorded by weighing in measurers presence

359.0 kg

Minimum Weight required by Rule

289.0 kg

SAIL DIMENSIONS



AREAS OF SAILS

Mainsail = 4.557Foretriangle Total = 2.925Foretriangle Total x 0.85 = 2.486Sail Area for Rating = S = 7.043 \sqrt{S}

[2.4 GBR 28] NOTE: This Contificate is issued by the RYA. No data is shall be altered without the prior permission of the RYA.