

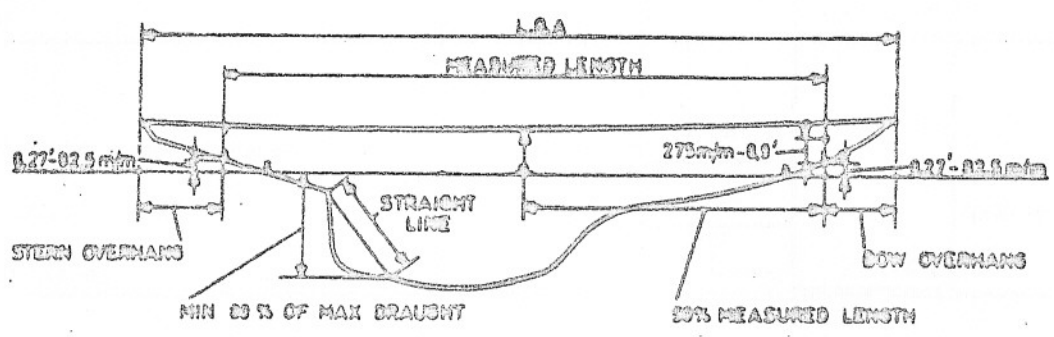
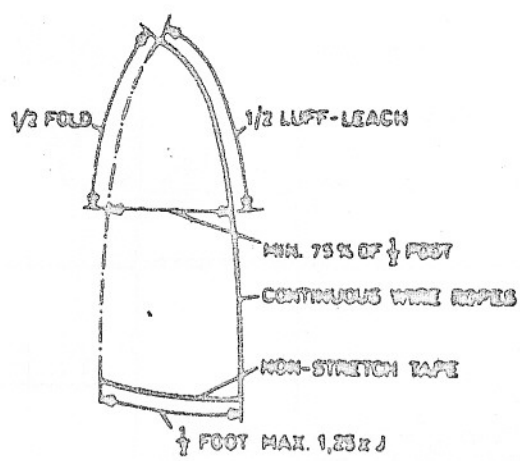
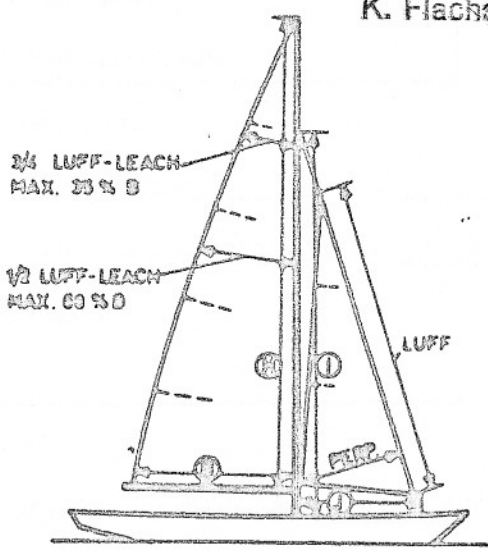
THE INTERNATIONAL 5.5 METRE CLASS CERTIFICATE OF RATING

Nr. 900280

| | | | |
|---|--|---|-----------------------------|
| Yacht's name | <i>Torsh II</i> | Classification society | <i>Bureau Veritas Paris</i> |
| Permanent sail number | <i>268</i> | Expiration date of classification certificate | <i>30.5.77</i> |
| Owner | <i>H. Gross</i> | Measurements or partial remeasurements by N.A. Measurer, signature & date | <i>USY - Verm.</i> |
| Owner's club | <i>SGYC</i> | | |
| Designer | <i>H. Loppowex</i> | | |
| Builder | <i>H. Wuy, Schirach</i> | | |
| Date completed | <i>1964</i> | | |
| Condition of water when marks were sighted | <i>fresh</i> | | |
| State fresh or salt | <i>fresh</i> | | |
| Difference in immersion (class rule 5) | <i>6 mm</i> | (metres) | |
| Has designer's or builder's declaration been furnished | <i>no</i> | | |
| I declare that the particulars given on this certificate are correct at this date | | Expiration date of rating certificate | <i>30.5.77</i> |
| Signature of designer or builder | | Rated | |
| Signature of owner or his representative | | | |
| (The designer or builder is only responsible for measurements at the date they are taken) | | | |
| Certificate authorised by | Techn. Zentrale 20.5.75 der USY <i>hem</i> K. Flachsman | for | (National Authority) |

**Im USY-Register
eingetragen am
7. JULI 1975**

*Musee de Myan
patenteille 55 n° 2*



RATING FORMULA : $0.9 \left(\frac{L\sqrt{S}}{12\sqrt{D}} + \frac{L+\sqrt{S}}{4} \right)$ not to exceed 5.5 m or 18.04 ft.

| | Actual measures | | Rule limits |
|---|--------------------|-------------------|---|
| LENGTH L FOR RATING | | 9.568 | |
| Overall length L.O.A. | | | |
| Bow overhang to L ₁ | 1.073 | | |
| Stem overhang to L ₁ | 1.115 | | |
| Total overhang | add | 2.128 | |
| Measured length L ₁ | | subtract 7.440 | |
| Girth at bow | 0.709 | | |
| Twice vertical height at bow (=0.550 m or 1.804 ft.) | 0.570 | | |
| Bow girth difference | subtract 0.159 | 0.165 | min. 0.165 m or 0.541 ft. (rule 3) |
| Girth at stem | 1.653 | | |
| Twice vertical height at stem | 0.962 | | |
| Stem girth difference | subtract 0.691 | | |
| 1/3 stem girth difference | div. by 3 0.230 | 0.234 | min. 0.234 m or 0.768 ft. (rule 3) |
| Length L for rating formula | add | 7.839 | |
| SAIL AREA FOR RATING | | | |
| Largest headsail = 0.5 x _____ (luff) x _____ (poop) | | 9.575 | min. see next page |
| Mainsail = 0.5 x <u>3700</u> (H) x <u>10700</u> (D) | | 19.425 | min. 26.5 m ² or 285.0 sq. ft. (rule 7) |
| Total sail area S | | add 29.000 | max. 29.0 m ² or 312.0 sq. ft. |
| \sqrt{S} | | | |
| DISPLACEMENT | | | |
| Weight of yacht (date when weighed <u>22.5.64</u>) | | 2020 | |
| Displacement D = weight div. by 1025.21 kg/m ³ or 64 lb/cu. ft. | | 1.971 | min. 1.7 m ³ or 60.27 cu. ft. (rule 7) max. 2.0 m ³ or 70.62 cu. ft. |
| $\sqrt[3]{D}$ | | 1.254 | |
| RATING | | | |
| Rating calc'd according to formula | | 5.500 | |
| 3 x tumble home excess | | - | (rule 14) |
| FINAL RATING | | add 5.500 | |

RULE PARTICULARS

| | Actual ^(x) | Rule limits | Rule No. |
|--|------------------------|--|----------|
| HULL | | | |
| Immersion checked in salt/fresh water | date 25.4.75 | | 5;27 |
| Weight of inside ballast placed at <u>bow</u> | 20 | xx) | 6;33 |
| Beam | 1.913 | min. 1.90m or 6.23 ft. | 7;9 |
| Draft | 1.332 | max. 1.35m or 4.43ft. | 7 |
| Freeboard at bow girth station | 0.737 | | |
| " at stern girth station | 0.563 | | |
| " at midship mark | 0.597 | | |
| " average | 0.632 | min. 0.63m or 2.06ft. | |
| Keel, ballast material | lead | lead or iron | 10 |
| " ht. of round at bottom | 0.070 | max. 75mm, or 3 in. | 10 |
| " width at max. section 1 metre below L.W.L. | 0.152 | min. 150mm, or 5.9in. | 10 |
| Stern angle | 0.270 | min. 1 in 5.5 = 0.1818 | 12 |
| Round of beams | 4 | max. 7mm. in 305mm, | 13 |
| Tumble home | 0.078 | or 0.25in. in 12in. | 14 |
| 2% of max. beam \pm 2 | 0.076 | | |
| Excess tumble home | subtract \rightarrow | 3 x excess added to rating | 14 |
| Area of deck openings | 1.90 m ² | max. 2.25m ² or 24.25 sq. ft. | 24 |
| Cockpit forward of L1 mark | 2.115 | min. 1.75m or 5.74ft. | 25 |
| Breadth of side docks | 0.403 | min. 35cm or 1.15ft. | 24 |
| SAILS & RIGGING | | | |
| Height of sailplan above covering board level | 11.100 | max. 11.10m or 36.4ft. | 16 |
| " " boom (black band) above covering board level | 0.600 | max. 0.85m or 2.795ft. | 17 |
| " " fore triangle above covering board level (1) | 8.880 | max. 8.88m or 29.11ft. | 16 |
| Base of fore triangle (J) (Deck black band to be checked) | 2.692 | max. 0.50 x 5 | 16 |
| Min. headcell for measurement purposes = 0.5 x I x J x 80% | 9.562 | | 15 |
| Spinnaker, halliard above forestay | 0.100 | max. 10cm or 3.9in. | 20 |
| " " out from mast | 0.025 | max. 3cm or 1.18in. | 20 |
| " breadth of half the foot | 3.365 | max. 1.25 x J | 20 |
| Stern spinnaker, breadth of half the foot | 2.692 | max. J | 20 |
| Spinnaker boom length | 2.692 | max. J | 21 |
| Mast diameter at $\frac{1}{2}$ ht. of fore triangle, round mast | 0.105 / 1.51 | min. 11.5cm or 4.52 in. | 22 |
| " " at dock " " | 0.105 / 1.51 | min. 10.9cm or 4.30in. | 22 |
| " " at jib halliards " " | 0.105 / 1.51 | min. 9.2cm or 3.62in. | 22 |
| " " at top " " | 0.070 / 1.51 | min. 5.8cm or 2.26in. | 22 |
| (The afterwidth diameters of oval masts may be reduced by 10% of the above, but the sectional areas shall not be less) | | | |
| Weight of mast with fixed fittings | 43 | min. 40 kgs or 88 lbs | 22 |
| Centre of gravity of mast above covering board level | 4.500 | min. 30% of mast ht. | 22 |
| Boom depth | 0.145 | max. 15.2cm or 6in. | 23 |
| Boom width | 0.088 | min. 3.8cm or 1.5in. | 23 |
| MISCELLANEOUS | | | |
| Weight of anchor | 12 kg | max. 10kgs or 26.45lbs min. 11kgs or 24.24lbs | 26 |
| Length of warp | | min. 30m or 16.4 fathoms | 26 |
| Top of 1 marks above water with yacht in racing trim | | | 5 |