

INTERNATIONAL DRAGON CLASS

Yacht's name and sail number..... D/S 227.....

Owner's name and address..... Herr Tommy Strömberg,.....
Admiralsvägen 9, Saltsjöbaden, Sverige.....

Builder's name and address..... A/S Børresens Baadebyggeri, Vejle, Danmark.....

GENERAL

1. This work sheet shall be read in conjunction with the official set of plans. Should any difference exist the text shall prevail. The builder shall supply a certificate to the measurer stating that the yacht has been built to the current international DRAGON class rules and the current official set of plans. Weight certificates for ballast keel and yacht shall also be provided.
2. The measuring tape used should be a steel tape and the machine used for weighing should be certified correct.
3. In this sheet where particular kinds of wood are mentioned other kinds of wood may be used, provided they have the same specific weight and durability.
4. Where the inboard edges of structural members are not fayed to other structural members, they may be rounded off. Such rounding shall not exceed 5 millimetres ($\frac{1}{8}$ in.) radius.
5. The measurer shall check that sections 2, 4, 8, 12 and 14 are marked in accordance with measurement instruction 2.
- * 6. The measurer shall apply the hull templates in accordance with measurement instructions 2 and 3.
 - (a) at Section 2: 831 mm
 After the template is properly placed at the section marked on the hull the horizontal distance to section 8 shall be 3,600 mms. (11 ft. $9\frac{3}{8}$ ins.).
 The template shall either barely touch the hull or the distance between the template and the hull shall not exceed 10 mms. ($\frac{3}{8}$ in.).
 The freeboard shall be within the limits marked on the templates.
 - (b) at Section 4: 468 mm
 After the template is properly placed at the section marked on the hull, the horizontal distance to section 8 shall be 2,400 mms. (7 ft. $11\frac{3}{8}$ ins.).
 The template shall either barely touch the hull or the distance between the template and hull shall not exceed 12 mms. ($\frac{1}{2}$ in.).
 The freeboard shall be within the limits marked on the templates.
 - (c) at Section 8: 1952 mm
 After the template is properly placed at the section marked on the hull it shall either barely touch the hull or the distance between the template and the hull shall not exceed 16 mms. ($\frac{5}{8}$ in.).
 The freeboard shall be within the limits marked on the templates.
 - (d) at Section 12: 1549 mm
 After the template is properly placed at the section marked on the hull the horizontal distance to section 8 shall be 2,400 mms. (7 ft. $11\frac{3}{8}$ ins.).
 The template shall either barely touch the hull or the distance between the template and hull shall not exceed 10 mms. ($\frac{3}{8}$ in.).
 The freeboard shall be within the limits marked on the templates.
 - (e) at Section 14: 1125 mm
 After the template is properly placed at the section marked on the hull the horizontal distance to section 8 shall be 3,600 mms. (11 ft. $9\frac{3}{8}$ ins.).
 The template shall either barely touch the hull or the distance between the template and the hull shall not exceed 10 mms. ($\frac{3}{8}$ in.).
 The freeboard shall be within the limits marked on the template.
7. No hollows in hull above designed waterline are allowed. Check with straight edge.
- * 8. The application of the keel templates at sections 5a, 6, 6a, 7 and 8 is laid down in measurement instruction 4 and the checking of the plus and minus tolerance 4 mms., shall be done with the proper gauge. The same tolerance applies to section 9 and 9a for which templates are not provided.

Item No.	Rule No.		Minimum	Maximum	Actual or checked	Item No.
MAJOR DIMENSIONS						
i	M.I.1	Length overall	8.855 metres (29 ft. $0\frac{3}{4}$ in.)	8.944 metres (29 ft. $4\frac{1}{4}$ ins.)	<u>8.92</u>	i
		provided that:				
		(a) the length forward of section 8 is	4.675 metres (15 ft. 4 ins.)	4.724 metres (15 ft. 6 ins.)	<u>4.76</u>	
		(b) the length aft of section 8 is	4.180 metres (13 ft. $8\frac{9}{16}$ ins.)	4.220 metres (13 ft. $10\frac{5}{16}$ ins.)	<u>4.22</u>	
CONSTRUCTION						
* ii	1	Stem: wood keel, counter timber and sternpost (oak and see general)	} for dimensions see plans			ii
* iii	1	Deadwood (oak or pine and see general)				iii
iv	2	Rudder stock (round steel, galvanised or stainless, or bronze)				iv
		Diameter	25 mms. (1 in.)			
		Rudder blade (dimensions as plan 4, reinforced coating permitted on rudder blade only)				

Item No.	Rule No.		Minimum	Maximum	Actual or checked	Item No.
v	3	Sternboard (oak and see general)	.....	.....	.....	v
		Thickness	20 mms. ($\frac{13}{16}$ in.)	.....	✓
		To be flat	.....	.....	.....
* vi	4	Planking (optional wood)	.....	.....	.....	vi
		Thickness	17 mms. ($\frac{11}{16}$ in.)	.....	✓
		Weight (per cubic metre)	550 kgs.	.....	.....
		Weight (per cubic foot)	(34.4 lb.)	.....	.....
* vii	4	Planking fastenings:	.....	.....	.....	vii
		Copper nails	3 mms. (number 11 gauge)	.....	.....
		Brass screws, length	32 mms. ($1\frac{1}{4}$ ins.) 3 mms. (number 11 gauge)	.....	✓
viii	5	Frames at sections 4, 8, 12 and 2 frames abreast the mast	.....	.....	.....	viii
		Oak—laminated or grown	.....	moulded 30 mms.	.....	✓
		Ash } laminated	.....	x 34 mms. ($1\frac{3}{16}$ ins.)	.....
		Elm }	.....	x $1\frac{3}{8}$ ins.)	.....
* ix	5	All other frames	.....	.....	Spaced 200 mms. ($7\frac{7}{8}$ ins.) centre to centre	ix
		Ash } hot bent	.....	moulded 25 mms.	.....	✓
		Oak } or	.....	x 30 mms. ($1\frac{1}{16}$ in.)	.....
		Elm } laminated	.....	x $1\frac{3}{16}$ ins.) for $\frac{1}{2}$ yacht's length and moulded 22 mms. x 25 mms. ($\frac{7}{8}$ in. x 1 in.) at ends	.....
		N.B. Frames 2 & 14 must be laminated or grown				
* x	6	Shelf (pine fir or larch and see general)	.....	27 mms. x 100 mms. ($1\frac{1}{16}$ ins. x $3\frac{1}{16}$ ins.) or 24 mms. x 115 mms. ($\frac{1}{2}$ in. x $4\frac{1}{2}$ ins.)	.....	x
* xi	7	All beams (larch, pine or fir and see general)	.....	.....	Spaced 254 mms. (10 ins.) centre to centre	xi
		Mast beams and beams at end of cockpit and cabin top opening	40 mms. x 60 mms. ($1\frac{5}{16}$ ins. x $2\frac{3}{8}$ ins. at middle line to 40 mms. x 40 mms. ($1\frac{5}{16}$ ins. x $1\frac{5}{16}$ ins.) at sides	Round of beam 9.5 mms. ($\frac{3}{8}$ in.) in 305 mms. (12 ins.) of its length	.....
* xii	7	Complete beams between sections 3 and 13	30 mms. x 45 mms. ($1\frac{3}{16}$ ins. x $1\frac{3}{4}$ ins.) at middle line to 30 mms. x 30 mms. ($1\frac{3}{16}$ ins. x $1\frac{3}{16}$ ins.) at sides	Round of beam 9.5 mms. ($\frac{3}{8}$ in.) in 305 mms. (12 ins.) of its length	.....	xii
* xiii	7	Half beam at sides of cockpit, etc.	25 mms. x 38 mms. (1 in. x $1\frac{1}{2}$ ins.) to 25 mms. x 25 mms. (1 in. x 1 in.) at sides	Round of beam 9.5 mms. ($\frac{3}{8}$ in.) in 305 mms. (12 ins.) of its length	.....	xiii
* xiv	8	Deck (larch, pine or fir and see general)	.....	.....	.....	xiv
		Weight	432 kgs. per cubic m. (27 lb. per cubic ft.)	.....	.....
		Thickness	14 mms. ($\frac{9}{16}$ in.)	.....	.....
		Covered with canvas or other material of equivalent weight	240 grs. per sq. m. (7 oz. per sq. yd.)	.....	.....
		Plywood—thickness	15 mms. ($\frac{1}{2}$ in.)	.....	.....
		weight	6 kgs. per sq. m. (1.56 lb. per sq. ft.)	.....	.....

Item No.	Rule No.		Minimum	Maximum	Actual or checked	Item No.
* xv	9	Covering board—mahogany and see general	.....	.....	.....	xv
		Width .....	.....	95 mms. (3 $\frac{3}{4}$ ins.)	.....
* xvi	10	Floor timbers—oak and see general	.....	.....	.....	xvi
			sided 70 mms. (2 $\frac{3}{4}$ ins.) for length of ballast keel, 50 mms. (2 ins.) beyond the keel. For $\frac{1}{2}$ of their length the siding can be tapered down to $\frac{2}{3}$ of specified width	.....	.....
* xvii	11	Mast step—oak and see general	.....	.....	.....	xvii
			1350 mms. x 150 mms. x 60 mms. (4 ft. 5 $\frac{1}{8}$ ins. x 5 $\frac{5}{16}$ ins. x 2 $\frac{3}{8}$ ins.). Sided 150 mms. (6 ins.) throughout. For taper of moulding see official drawings	2 lifting eyes, 3 kgs. (6.61 lb.) per eye	.....
* xviii	12	CABIN .....	.....	.....	.....	xviii
		Internal arrangements and fittings—optional May be totally enclosed	.....	.....	.....
xix	12	Sides—mahogany and see general	.....	.....	.....	xix
		Thickness	16 mms. ($\frac{5}{8}$ in.)	.....	.....
		Height above top of deck measured vertically from the under side of the coach roof at section 8	170 mms. (6 $\frac{11}{16}$ ins.)	.....	.....
		Roof (optional wood or plywood) may be covered with canvas or other material	.....	.....	.....
		Thickness	10 mms. ($\frac{7}{16}$ in.)	.....	.....
		Arch of coach roof at section 8	100 mms. (3 $\frac{1}{8}$ ins.)	.....	.....
		Length of cabin	1,000 mms. (3 ft. 3 $\frac{3}{8}$ ins.)	.....	.....
		Breadth of cabin at 1,000 mms. from the after end of the cabin top	500 mms. (1 ft. 7 $\frac{11}{16}$ ins.)	.....	.....
		Height of coaming (at a distance of 1,000 mms. from the after end of the cabin top)	80 mms. (3 $\frac{1}{8}$ ins.)	.....	.....
xx		Floor boards—optional wood	.....	.....	.....	xx
		Thickness .....	.....	16 mms. ($\frac{5}{8}$ in.)	.....
xxi	12	HATCHES	.....	.....	.....	xxi
		Cabin hatch—optional—no part of opening forward of section 8	.....	.....	.....
		Forward hatch—optional—properly framed and permanently secured at one point at least	.....	508 mms. sq. (20 ins. sq.)	.....
xxii	13	COCKPIT	.....	.....	.....	xxii
		Arrangement, layout of cockpit and rounded corners are optional	.....	.....	.....
		Height of coaming (plumb or sloping)	100 mms. (3 $\frac{1}{8}$ ins.)	.....	.....
		After end—distance forward of section 12	200 mms. (7 $\frac{7}{8}$ ins.)	.....	.....
		Forward end—never forward of section 8	.....	.....	.....
		Round corners, if fitted: Radius .....	.....	152 mms. (6 ins.)	.....
		Extensions of coamings forward of the cabin top and abaft the cockpit—optional	.....	.....	.....
xxiii	13	Side deck outside cockpit coaming: width	300 mms. (11 $\frac{11}{16}$ ins.)	.....	.....	xxiii
xxiv	14	TILLER	.....	.....	.....	xxiv
		Above deck: shape—optional	.....	.....	.....
		Length (no extension)	.....	1.20 metres (3 ft. 11 $\frac{1}{4}$ ins.)	.....

Galvanised plough or stainless steel wire
(mms.=diameter, in.=circumference)

Distance shrouds at deck to centreline	....	0.70 metres (2 ft. 3 $\frac{9}{16}$ ins.)	....	....	....	✓
Lower shrouds	....	5 mms. ($\frac{5}{16}$ in.)	....	....	....	....
Top shrouds	....	5 mms. ($\frac{5}{16}$ in.)	....	....	....	....
Forestay	....	1 x 5 mms. ($\frac{5}{16}$ in.) or 2 x 4 mms. ($\frac{1}{2}$ in.)	....	....	....	....
Jumper stays	....	4 mms. ($\frac{1}{4}$ in.)	....	....	....	....
Runner and permanent	....	....	....	....	....	....
Backstays	....	3 mms. ($\frac{1}{8}$ in.)	....	....	....	....
Spinnaker halyard attachment:						
Height above deck	....	....	....	7.10 metres (23 ft. 3 $\frac{1}{2}$ ins.)	....	✓
Out from foreside of mast	....	....	....	30 mms. (1 $\frac{3}{8}$ ins.)	....	....
Intersection point of mast with forestay extension, above deck	....	....	....	7.00 metres (22 ft. 11 $\frac{3}{8}$ ins.)	....	✓

One kind optional wood non-rotating	....	....	....	....	....	....
Groove for luff and for halyard shall not impinge on minimum sectional dimension	....	....	....	....	....	....
Diameter at:						
10.00 metres above deck	....	45 mms.	....	....	....	✓
32 ft. 9 $\frac{1}{8}$ ins. above deck	....	1 $\frac{1}{4}$ ins.	....	....	....	....
8.077 metres above deck	....	75 mms.	....	....	....	✓
26 ft. 6 ins. above deck	....	3 ins.	....	....	....	....
6.249 metres above deck	....	90 mms.	....	....	....	✓
20 ft. 6 ins. above deck	....	3 $\frac{9}{16}$ ins.	....	....	....	....
4.953 metres above deck	....	95 mms.	....	....	....	✓
16 ft. 3 ins. above deck	....	3 $\frac{1}{2}$ ins.	....	....	....	....
3.048 metres above deck	....	95 mms.	....	....	....	✓
10 ft. 0 ins. above deck	....	3 $\frac{1}{2}$ ins.	....	....	....	....
Deck	....	90 mms. (3 $\frac{1}{2}$ ins.)	....	....	....	✓
Mast step	....	86 mms. (3 $\frac{3}{8}$ ins.)	....	....	....	✓

xxvi	16	Masthead chock extension aft from back of mast	....	102 mms. (4 ins.)	....	✓	xxvi
		Masthole clearance	....	10 mms. ($\frac{3}{8}$ in.)	....	✓
		Fore and aft position of the mast through the deck—optional	....	....	....	....
		Intersection of forestay with deck: distance from centre line of mast mark to aft side of forestay mark (see rule 16)	....	....	....	1.825 metres (5 ft. 11 $\frac{1}{8}$ ins.)	
		Fore and aft position through the cabin top—aft side of mast to aft side of cabin top or section 8 whichever is the nearer (see rule 12)	....	900 mms. (2 ft. 11 $\frac{7}{16}$ ins.)	....	✓
		Lower edge of upper black band: Height from deck	....	....	....	10 metres (32 ft. 9 $\frac{1}{16}$ ins.)	✓
		Upper edge of lower black band: Height from deck	....	0.80 metres (2 ft. 7 $\frac{1}{2}$ ins.)	....	✓
		Total height of mast above deck	....	10.203 metres (33 ft. 5 $\frac{1}{16}$ ins.)	....	✓

Item No.	Rule No.		Minimum	Maximum	Actual or checked	Item No.
xxvii	17	Jumper struts—optional material:				xxvii
		Length	300 mms. (11 $\frac{13}{16}$ ins.)			
		Upper edge above deck		7.10 metres (23 ft. 3 $\frac{1}{2}$ ins.)	✓	
xxviii	17	Angle between arms		150°		xxviii
xxix	17	Crosstrees—optional wood:				xxix
		Length from side of mast	450 mms. (1 ft. 5 $\frac{1}{4}$ ins.)		✓	
xxx	17	Upper edge above deck		4.4 metres (14 ft. 5 $\frac{1}{4}$ ins.)		xxx
		Movement in fore and aft direction		± 10°		
xxxi	18	Spars:				xxxi
		Main boom—solid optional wood				
		Circular or oval transverse section including optional groove				
		Depth of groove		22 mms. ($\frac{7}{8}$ in.)	✓	
		Transverse width of spar	80 mms. (3 $\frac{1}{8}$ ins.)			
xxxii	18	Length—after end to aft side of mast		3.55 metres (11 ft. 7 $\frac{13}{16}$ ins.)	✓	xxxii
		Inner edge of black band:				
		Distance from after side of mast		3.45 metres (11 ft. 3 $\frac{13}{16}$ ins.)	✓	
xxxiii	20	Spinnaker boom—solid				xxxiii
		Circular transverse section			✓	
		Length		1.85 metres (6 ft. $\frac{7}{8}$ in.)		
		Diameter for at least half its middle length	50 mms. (2 ins.)			
xxxiv	25	EQUIPMENT				xxxiv
		Anchor or anchor and chain	12.7 kgs. (28 lb.)			
		Anchor when with chain	5 kgs. (12 lb.)			
xxxv	25	1 anchor rope:				xxxv
		Length	30 metres (100 ft.)			
		Weight	6 kgs. (13 lb.)			
xxxvi	25	2 mooring ropes:				xxxvi
		Length (each)	10 metres (33 ft.)			
		Weight (each)	2 kgs. (4 $\frac{1}{2}$ lb.)			
xxxvii	25	1 bilge pump, 3 life belts or jackets, two oars or paddles or one of each, one bucket or bailer				xxxvii
* xxxviii	26	WEIGHT				xxxviii
		Ballast keel—cast iron, lead filling prohibited:				
		Weight	990 kgs. (2183 lb.)	1010 kgs. (2227 lb.)	1010	
xxxix	26	Yacht:				xxxix
		Weight	1700 kgs. (3747 lb.)		1700	

Complete, painted and ready for racing, free of water with only the following on board: floor boards, seats, all winches and handles for same levers if used, tracks, leads blocks above and below deck—one set only, of a size and weight normally used, cleats, fairleads and all fixed and deck fittings, mast and rigging, main boom and fittings, one set of sheets for working the main and headsail, spinnaker sheets, spinnaker topping lift and downhaul, one spinnaker boom, two lifting eyes.

Items marked * are not subject to remeasurement pursuant to class measurement instruction 7(c).

Item No.	Rule No.		Minimum	Maximum	Actual or checked	Item No.
xxxx	26	Weight of correctors (lead):				xxxx
		Section 4 (permanent) ....	....	....	..... (i kgm)	
		Section 8 .....	....	....	40 kgs. (88 lb.)	
		Section 12 (permanent) ....	....	....	.....

MEASURER'S COMMENTS: (any doubts or difficulties to be reported below)

Measurer: *Jørgen Pi*
 Date: *86/maj 67*

JØRGEN PI ERS EN, SKIBSINGENIØR
 HØJBERG - TLF. 06 14 57 51

Supplied by I.Y.R.U., 171 Victoria St., London S.W.1, price 2/- each surface post free.

AUTHORITATIVE FROM:—11th MAY, 1966.