

IDNIYRA OFFICIAL SPECIFICATIONS

REVISED JUNE 2020

Note: Dimensions are given in inches in the English System (except as noted) and in millimeters (MM) in the metric system.

A. Fuselage	Eng-lish	Metric		
	Max	Min	Max	Min
1. Length overall:	147	141	3733.0	3582.0
2. Beam:	21 ½	17 ½	546.0	445.0
3. Thickness of decks and cockpit floor:	¼	0.118	6.3	3.0
4. Thickness of bottom:	¼	0.118	6.3	3.0
5. Sides and bulkhead at front of cockpit:	1	5/8	25.4	15.9
6. Intersection of seat back and floor to pivot pin of steering runner:	110 ¼	98 ¼	2800.0	2496.0
7. Distance from bow to front of cockpit:	66	54	1676.0	1372.0
8. Stem block length is optional.				
9. Stem width at bow:	3 ¾	2	95.0	51.0
10. Stern block length is optional.				
11. Stern width at stern:	4	1 ¼	101.0	31.0
12. Seat backs shall be raked aft at an angle of 45 degrees plus or minus 10 degrees. They may be hinged for access to stowage compartment.				
13. Seat back shall be flat, measuring 11" (280. mm) in length at the center line, no maximum height, the crown on top of seat must be a minimum of 2" (50.8 mm) radius with minimum seat width 4".				

14. Depth of side panel at each fuselage station shall not be less than heights in the following table:

Layout of Side Panel/Minimum Side Heights			
Position along side panel starting at bow		Minimum Side Panel Height	
Inches	mm	Inches	mm
2	51	2-9/16	65
12	305	3-7/8	98
24	610	5-1/16	129
36	914	6-1/16	154
48	1220	6-7/16	164
60	1524	6-5/8	168
72	1829	6-5/8	168
84	2134	6-1/2	165
96	2438	6-3/16	157
108	2743	5-9/16	141
120	3048	4-5/8	117
132	3353	3-3/8	86
Last station: 2 inches (51mm) from stern		2	51

15. Side Panels

a. Bottom heights of side panels shall not exceed a maximum of 1" (25.4 mm) above zero line and/or a maximum of 1/2" (12.7 mm) below zero line. Zero line shall be established by a straight line tangent to stem and stern on bottom.

b. Maximum height of side panels above zero line may be 8-1/2" (215.9 mm) including deck and bottom covering. All heights of side panels shall be proportional to height as shown in "Layout of Side Panel". The top edge of the side panel may not be concave at any point along its length.

16. Hull cross sections must be rectangular from a point 6" (153. mm) from the bow to a point 6" (153. mm) from the stern. A maximum 1/4" (6.3 mm) radius is allowed on the outside top corner of the fuselage where the deck and side panel intersect. Concavities in the deck are not permitted.

17. Cockpit floor shall be installed as shown in plans, cockpit bottom must be on top of listings. The total thickness of the cockpit floor including the bottom skin and cockpit floor skin must be a minimum of 5/8" (15.9mm). A minimum of 2 knees must be installed.

18. Structural members such as longerons, stringers, knees, listings, bulkheads, bottom, deck, etc. may be added. Deck may not protrude more than 3" (76mm) into the cockpit from the bulkhead at the front of the cockpit.

19. Design of the internal structure of the fuselage is optional.

20. Grab rails may be installed on the inside and/or outside vertical surface of the side panels. They may not extend beyond 8" (203. mm) from either end of cockpit. Rails shall not exceed 1" (25.4 mm) in depth or width. Rails are exempted from fuselage measurements.

21. Steering post and chock may be inclined in the vertical plane of symmetry.

22. Steering shall be accomplished by means of a tiller. Tiller may be of any length or shape but may not be more than 8 inches (203 mm) wide. " Material is optional and may include para-aramid fabric.

23. Either steering rods, cables, or a single push pull link shall be used and shall be positioned beneath the fuselage as shown on the Official Plans.

24. Ballast, if used, shall be permanently installed.

25. Fuselage shall be constructed of wood only, except as provided in specification A.31. (Sitka spruce is most popular). Fiberglass may be added for reinforcement only. See Interpretations – General.

26. Sides shall not be hollow.

27. Minimum weight shall be 46 lbs. (21 kg) with all hardware, blocks, and tiller.

28. A full bulkhead must be installed at the front of cockpit.

29. Horizontal distance from the Bow to the pivot point of the front runner:

English		Metric	
<u>Max</u>	<u>Min</u>	<u>Max</u>	<u>Min</u>
7	3	178	76

30. National letter and sail number shall be affixed to each side of the fuselage below the mast stepping point. Color shall contrast with the fuselage and each letter and number shall be a minimum of 5.5 inches (140 mm) high and 0.7874 inches (20 mm) wide.

31. Foam is an allowed material for the internal construction of the fuselage, reference A.19

See Fuselage interpretations at the end of the Specifications

B. Runner Plank	English		Metric	
	Max	Min	Max	Min
1. Length overall (including hardware except pivot bolt):	96	94	2438	2388
2. Width at centerline	7-1/2	6-1/2	190.5	165.2
3. Thickness at centerline	1-5/8	1-1/8	41.2	28.6
4. Width at ends	7-1/2	5-1/2	190.5	139.5
5. Thickness at ends	1-5/8	1	41.2	25.5

6. Cross section is optional

7. Runner plank shall be constructed of wood. Number of laminations is optional. Fiberglass may be added. See Interpretations-General.

8. The underside of the runner plank shall be higher at the centerline than the underside of the outside ends. The profile of the plank lamination must assume a reasonable fair and continuous curve. Cutouts or hollow depressions are not permitted.

9. The runner plank, including all hardware and pivot bolts, may not weigh less than 20 lbs. (9.0 kg.).

See Runner Plank Interpretations at end of Specifications.

C. Mast	English		Metric	
1. Dimensions	Max	Min	Max	Min
a. Length overall (including hardware)	192	186	4876.8	4724.4
b. The maximum fore and aft dimensions, excluding hardware:	4	—	101.6	
c. The minimum fore and aft dimensions, measured from full section above boom jaw area to a point located 127-1/2" (3238.5 mm) above the mast base:	—	3-1/2	—	88.9
d. The minimum fore and aft dimensions, measured above a point located 127-1/2" (3238.5mm) above the mast base:	—	2	—	50.8
e. The maximum side to side dimension, excluding hardware:	2-1/2	—	63.5	—
f. The minimum side to side dimension, below a point located 127-1/2" (3238.5mm) above the mast base:	—	2	—	50.8
g. The minimum side to side dimension, measured above a point located 127-1/2" (3238.5mm) above the mast base:	—	1-1/8	—	28.6
h. The minimum depth of the boltrope tunnel from the outside trailing edge:	—	3/8	—	9.5

2. Materials: Aluminum; wood; carbon or glass fiber; adhesives; foam; fairing and finishing materials.

3. Other Specifications:

- a. Only one boltrope tunnel is permitted. The boltrope tunnel shall be substantially straight with the mast relaxed. Track is prohibited.
- b. Cross section profiles are optional. Mast may be solid or hollow.
- c. A halyard must be installed. An internal halyard is permitted.

- d. Devices which prevent or hinder movement of the boom on the mast are prohibited.
- e. The bottom of the mast must be fitted with a socket that will pivot freely on the mast step deck ball.
- f. The mast, without stays but complete with hardware and halyard used while sailing, may weigh no less than 15 lbs. (6.80 kg). Aluminum masts produced from a die existing prior to July 1, 1996 may weigh less than 15 lbs. (6.80 kg).
- g. When supported at one point in an approximate horizontal position, the mast, without stays but complete with hardware and halyard in sailing position, must balance at a point a minimum of 84 inches (2133.6 mm) from the mast base.
- h. A removable internal reinforcement of allowable materials is allowed. This reinforcement may not be altered, turned or removed during a regatta.

See Mast Interpretations at end of the Specifications.

D. Boom	English		Metric	
	Max	Min	Max	Min
1. Length (from mast):	108	Opt	2743	Opt
2. Depth (from outhaul bracket to 12", 305mm from, mast):	3	2-1/2	76.2	63.6
3. Thickness (from outhaul bracket to 12", 305mm from mast):	1-25/32	1-1/4	45.25	31.8

- 4. Only one boltrope tunnel is permitted. The boltrope tunnel shall be substantially straight with boom relaxed. An aluminum boltrope tube is allowed. It must weigh less than three ounces per foot (280 grams/meter). The internal diameter must be at least 3/8" (9.5mm). The cross section of the tube is optional.
- 5. Cross section profile is optional. Boom may be hollow.
- 6. Boom jaws are optional. Devices which prevent or hinder movement of the boom on the mast are prohibited except for check wire.
- 7. A 1/2" (12. mm) wide stripe shall be painted around the boom in contrasting color. Stripe shall be perpendicular to sail tunnel. Forward edge of the stripe shall be 8' 10" (2692 mm) or less from forward inner surface of mast sail slot projected fairly.
- 8. Boom shall be constructed of wood or aluminum. Fiberglass may be added for reinforcement only.

See General and Boom Interpretations at the end of the Specifications.

E. Runners	English		Metric	
	Max	Min	Max	Min
1. Steel plate type (steel body with stiffening elements)				
a. Plate thickness	0.27	0.23	6.8	5.9
b. Plate length:	30.0	26.0	762	660.4
c. Plate heights of at least that part contained in chock. (Note: allow for sharpening):	5.0	3.74	127	95
d. Thickness (contained by chock):	1-1/32	31/32	26.1	24.7

e. Length and height of runner assembly (plate plus stiffening elements) shall not exceed those allowed for the steel plate. Material, location and cross section of stiffening elements are optional, provided Specifications E-3 and E-4 are not violated.

f. Method of attaching stiffening elements is optional.

g. Type of steel plate is optional.

2. Wood type (wood body with attached steel angle, "T" section or steel plate). This means commercially available section. Technical Committee will rule against any special fabrications.

	English		Metric	
	Max	Min	Max	Min
a. Thickness of body	1-1/32	7/8	26.1	22.3
b. Length:	36	30	914	763
c. Height of at least that part contained by the chock:	5	4	127	101.7
d. Thickness (contained by chock):	1-1/32	31/32	26.1	24.7

e. Body shall be made of wood. Fiberglass may be added. Plate may be attached by bolts, or epoxy or both.

f. The steel sections allowed are

American Standard 3/4" (19.1 mm) x 3/4" (19.1 mm) x 1/8" (3.3 mm) "angle" and 1" (25.4 mm) x 1" (25.4 mm) x 3/16" (4.8 mm) or 1/4" (6.4 mm) "T". Equivalent metric measure (DIN) sections may be used provided the dimensions are within 20% of those listed.

g. The 'T' section must not be reduced to less than 75% of its original height by sharpening.

h. Wood type with steel insert.	English		Metric	
	Max	Min	Max	Min
Insert plate dimensions:				
Height :	3	2	76.2	50.8
Thickness	0.270	0.1870	6.86	4.75
Max width exposed below wood runner body:	1-1/2	—	38.1	—

i. The body of a wood runner may be tapered below the minimum 7/8" (22.3 mm) thickness at a point 6" (152 mm) from the front end of the runner body. The body shall not be less than 1/4" thick at the front end.

3. Profile of runner is optional with the exception that front ends of all runners shall have a 5/8" (16 mm) radius or larger.
4. Runner stiffening elements shall not project laterally more than 3" (76.2 mm) from runner edge. If runner stiffening elements are used as a weight-bearing component (in contact with ice or snow), they must be totally located within the runner cut specifications (F2).
5. Steering runner shall be equipped with a strong and effective parking brake at all times.
6. Weight of any individual runner shall not exceed 17 lbs. (7.7 kg).
7. Method of attaching runner to chock and chock to plank shall be accomplished as shown in plans.
8. Methods of providing relative movement of runner with respect to chock shall be as shown in plans.

9. The leading edge of the runner steel is that portion of the edge forward of the sharpened ice contact edge and higher than $\frac{3}{4}$ " (19 mm) above the ice, measured with the runner in normal sailing position. The sharpened ice contact edge of the runner steel is along the entire bottom edge and extends forward and upward along the edge of the steel to a point not exceeding $\frac{3}{4}$ " (19 mm) above the ice, measured with the runner in normal sailing position. The leading edge must be rounded to an edge radius of not less than $\frac{1}{16}$ " (1.6 mm) and shall be faired to the sides of the steel as allowed in E.12. The sharpened ice contact edge may be rounded or sharpened to an included angle of not less than 75 degrees. The camber (crown) and shape of the sharpened ice contact edge is optional. Along the sharpened ice contact edge, the rounded edge or the sharpened angle is allowed to be faired to the sides of the steel providing the thickness of the steel of plate, insert style or T runners is not reduced below the allowed minimum. (ref. E.1.a., E.2.f., E.2.h).
10. Each yacht shall be restricted to the use of nine runners during a regatta.
11. A maximum of four holes, which are not structurally required, may be drilled in each runner. Holes shall not exceed $\frac{1}{2}$ " (12.7mm) diameter.
12. Along the leading edge of the steel (ref. E.9.), the minimum allowed steel thickness of plate, insert style, and T runners must be reached within $\frac{3}{4}$ " (10 mm) measured from the normal tangents of the leading edge (does not apply to 'angle' type runners).

See Runner Interpretations at the end of the Specifications.

F. Runner Base and Cut (Track)

	English		Metric	
	Max	Min	Max	Min
1. Longitudinal distance from pivot axis of steering runner to pivot axis of aft runner:	103	97	2616	2464
2. Lateral distance between aft runner edges below pivot axis: (To be measured with skipper in cockpit in sailing trim.)	95	Opt	2413	Opt.

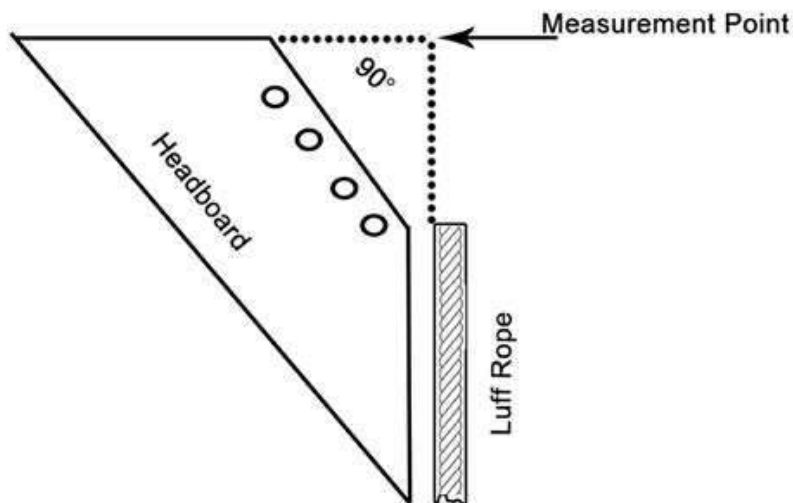
See Runner Base and Cut interpretations in the following sections.

G. Sail

1. The cloth must be made with high tenacity polyester (dacron) yarns. Sail cloth must be made with either of the following cloth constructions: 6.5 oz. cloth with 220 denier warp and 440 denier fill yarns or 280 grams/square meter cloth with 250 denier warp and 410 denier fill yarns.
2. Luff shall be 14' (4267 mm) or less. A bolt rope is required.
3. The foot shall be 8'10" or less (2692 mm) or less. A bolt rope is required.
4. Leech shall be 14'3" (4343 mm) or less.
5. There shall be three girth measurements taken by folding the sail in quarters according to the procedure specified in G.18
Top girth measurement 3'3" (990.6 mm) or less.
Middle girth measurement 5'8" (1727 mm) or less.
Bottom girth measurement 7'6" (2286 mm) or less.
6. Head of sail.
 - a. The width of the headboard shall be 4" (101.6mm) or less.
 - b. The overall dimension of the head of the sail, including bolt rope, shall be 5.5" (139.78 mm) or less.
 - c. The location of the measurement point at the forward upper corner of the headboard is determined by projecting a straight line parallel to the luff, excluding the luff bolt rope, to the point where it intersects with a line projected from the uppermost point of the headboard and perpendicular to the luff. Refer to diagram G.6.c. below.

G.6.c.

FORWARD UPPER CORNER OF HEADBOARD



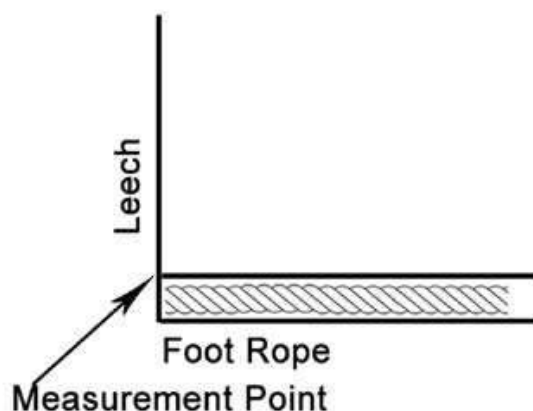
7. The sail shall be constructed with four batten pockets. The top edge of the top batten pocket must be a minimum of 27" (686 mm) below the top of the headboard. Spacing between battens shall not exceed 36" (914 mm) nor be less than 32" (813 mm). The top three battens shall be full length, extending from the leech of the sail to within 2" (50.8 mm) of the bolt rope. The bottom batten shall not exceed 36" (914 mm) in length.
8. Batten pockets shall lie at 90 degrees plus or minus 5 degrees to the leech as defined in G. 17 (Ref G.25a,5, Procedure for measuring a DN sail.)
9. Batten material and structural characteristics are optional. Batten width shall be 2" (50.8 mm) maximum.
10. Sail may have one row of reef points which cannot be located less than 18" (458mm) from the foot of the sail.
11. A yacht is restricted to the use of two sails in a regatta.
12. Altering the sail characteristics, such as area and camber, during a regatta by means other than the natural flexing of the structural members and positioning the clew grommet on the outhaul bracket are prohibited. This includes reefing. Batten adjustment is excluded.
13. National letter(s), yacht number and the letters "DN" shall be affixed to each side of the sail. Color of the letters and number shall contrast with the sail and be a minimum of 10" (255 mm) high. The letters and numbers shall be one piece, one color, block style letters on all sails made after July 1989.
14. A window in the sail is required. The window may be any shape and placed in several sections

Area (sq. in. and sq. cm.)	English		Metric	
	<u>Max</u>	<u>Min</u>	<u>Max</u>	<u>Min</u>
	1000	100	6452	645

15. A steel cable, at least 3/64" (1.2 mm) in diameter may be attached to the headboard, running inside the luff to a point outside the sail at the tack. Lower end of the cable shall form a loop which must be secured to the tack pin on boom when under sail. Distance from top of headboard to center of 1/4" (6.3 mm) bolt inserted in the loop shall not exceed 14' (4267 mm) with cable straight and under 10 lbs. (4.6 kg) of tension.
16. Sail shall not extend aft of the forward edge of the 1/2" (12 mm) boom stripe which is located 8'10" (2692 mm) from the forward edge of mast slot.

17. The leech, defined as the straight line between the forward upper corner of the headboard and the point where the leech intersects the foot at the clew, excluding the foot bolt rope, shall be measured with the sail free of battens and with 5 lbs. (2.3 kg) of tension. (Ref. G.6.c. and diagrams *Upper Forward Corner of Headboard, G.6.c. and Clew, G.17*)

G. 17 CLEW

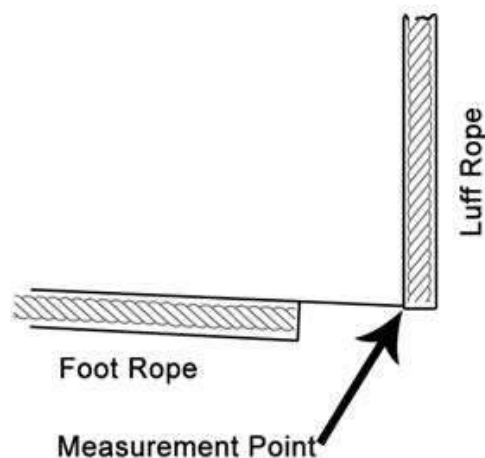


18. The three girth measurements shall be measured with battens removed and such tension as is required to remove wrinkles.
- The middle girth is measured between the mid points of the luff, excluding the bolt rope, and leech at the trailing edge. The mid point of the luff is found by folding the sail so the forward upper corner of the headboard lines up with the intersection of the luff and foot at the tack, excluding the bolt rope(s). The mid point of the leech at the trailing edge is found by folding the sail so the forward upper corner of the headboard lines up with the intersection of the leech and foot at the clew, excluding the bolt rope(s). (Ref. G 5 and diagrams *Upper Forward Corner of Headboard, G.6.c; Clew, G17; and Tack, G.24*)
 - The top girth is measured between the quarter points of the luff, excluding the bolt rope, and leech at the trailing edge. The top quarter girth point on the luff is found by folding the sail so the forward upper corner of the headboard lines up with the mid point on the luff, excluding the bolt rope. The top quarter girth point on the leech is found by folding the sail so the forward upper corner of the headboard lines up with the mid point on the leech at the trailing edge. (Ref G.5 and diagrams *Upper Forward Corner of Headboard, G.6.c.*)

c. The bottom girth is measured between the quarter points of the luff, excluding the bolt rope, and leech at the trailing edge. The bottom quarter girth point on the luff is found by folding the sail so the tack at the intersection of the luff and foot, excluding the bolt rope(s), lines up with the luff mid point. The bottom quarter girth point on the leech is found by folding the sail so the clew at the intersection of leech and foot, excluding the bolt rope, lines up with the mid point on the leech at the trailing edge. (Ref. G. 5, and diagrams *Upper Forward Corner of Headboard, G.6.c.; Tack, G.24; and Clew, G.17.*)

19. Sails shall not be colored red or orange.
20. The profile of the sail along the leech at the trailing edge shall be such that the maximum inward curve of the edge of the leech shall not exceed $\frac{3}{4}$ " from a line drawn from the back of the headboard to the outer end of the second batten pocket from the top; and from a line drawn from the outer end of the top batten pocket to the outer end of the third batten pocket from the top.
21. The profile of the leech at the trailing edge above the top batten pocket shall be such that no part of the sail extends outward more than $\frac{1}{4}$ " from a line drawn from the back of the headboard to the outer end of the top batten pocket.
22. The luff and the foot of the sail must have a boltrope that is inside the boltrope tunnel of the mast and boom while sailing, except in the area within 12 inches of the tack.
23. The tack of the sail must be fixed to a fitting at the forward end of the boom.
24. The luff, defined as a line between the forward upper corner of the headboard and the intersection of the foot and luff at the tack, excluding boltropes, shall be measured with the sail free of battens and under 5 lbs. (2.3 kg) of tension. (Ref. diagram *Upper Forward Corner of Headboard, G.6.c. and Tack, G.24.*)

G. 24 TACK



25. Procedure for measuring a DN sail.

- a. Preparing the sail for measuring:
 1. The sail shall be free of the mast and boom.
 2. Battens should be removed.
 3. Lay the sail on a hard surface (table, floor, or ice sailing surface).
 4. Measure each specified dimension one-at-a-time with tension applied only across the line of measurement as is sufficient to remove wrinkles except as specified in G.17, G.24, and G.25c.1.
 5. Use the following points of measurement when measuring location of battens and batten pockets and pocket angles.
 - aa. Locate the straight line leech by stretching a string or small diameter rope from the forward upper corner of the headboard to the clew, excluding the bolt rope. (ref. G.6.c. and G.17)
 - bb. The top edge of a batten pocket is located along the top of the inside width of the pocket. The centerline of the batten pocket is located in the center of the inside width of the pocket.
 6. Use the location of the Forward Upper Corner of the Headboard (ref. G.6.c.) as the measurement point when folding to measure the girths (ref. G.18)
- b. To determine the location of the top batten pocket and spacing between battens (ref. G. 7):
 1. In G.7 the measuring point on the top of the headboard is located at the forward upper corner of the headboard (ref. G.6.c.). All points along the top edge of the pocket must comply with the 27" (686 mm) minimum dimension from the head (ref. 25.a.5.bb.)
 2. The spacing between the battens is measured between the centerline of the batten pockets where the centerline intersects with the straight line leech (ref G.25.a.5.aa)
- c. To determine the angle of the battens pockets (ref. G.8.):
 1. Pin the head, tack and clew in place on the hard surface while applying tension along the luff, foot, and straight line leech to remove wrinkles. The leech at the trailing edge should not lift away from the hard surface.
 2. Measure the angle between the straight line leech and the top edge of the batten pocket. (ref. G.25.a.5.aa and bb).
 3. Measure one-pocket-at-a-time.
 4. Place the base of a protractor along the straight line leech, centered at the top edge of the batten pocket (ref. G.25.a.5.bb) and facing the luff.
 5. Read the angle at the top edge of the pocket. (ref. G.25.a.5.bb).

See Sail Interpretations at the end of the Specifications.

H. Rigging

1. Framing stays are prohibited. Any cable not shown in the plans is prohibited.
2. All stays shall be steel cable and shall be 0.118" (3 mm) or greater in diameter.
3. Halyard shall be either steel cable with a minimum diameter of 3/32" (2.4 mm) or rope of optional material with a minimum diameter of 3/32" (2.4 mm)
4. Bobstay shall be installed and fitted to the bow tang forward and anchored at its after end on the stern block or immediately in front of the runner plank.
5. Tubes and other means of rigid adjustment of stay lengths are permissible.
6. Devices which adjust stay lengths while yacht is underway are prohibited.
7. Means for rigid adjustment of mast step location are permissible.
8. Means for adjustment of mast step location while yacht is underway are prohibited.
9. Mast step shall be rigidly mounted on the deck of the fuselage.
10. Mast step shall permit free orientation of mast.

11. Horizontal distance from mast step pivoting point (center of ball) to pivot axis of steering runner:	English		Metric	
	<u>Max</u>	<u>Min</u>	<u>Max</u>	<u>Min</u>
	41	35	1041	890
12. Horizontal distance from pivot axis of steering runner to pivot axis of steering post:	50	44	1270	1118
13. Distance from lower mast hound bolt (pivot bolt located in front of mast) to base of mast:	139-1/2	127-1/2	3543	3239
a. All stays shall connect to a common component (which may consist of one or more sub-components) which attaches to the mast hound at a single point.				

14. Six sheet blocks shall be installed.
15. Four sheet blocks shall be installed aft of the rear limit of the cockpit floor: two on the boom and two on the deck. None of these blocks may incorporate a one-way feature. The blocks on the fuselage must be fastened in a manner such that anything penetrating the deck may only be performing the function of fastening, and no other function.
16. One sheet block shall be located forward on the boom within 1' (304 mm) of the mast. This block may incorporate a one-way feature.
17. One sheet block shall be installed on the tiller post. This block may incorporate a one-way feature.
18. The sheet must be attached to the boom and pass through all blocks as shown in plans.
19. Blocks must be individual and have fixed positions on fuselage and boom.
20. Sheet may run inside the boom between the forward block and the 2nd block.
21. The distance from the center of the runner plank to the base/foot of the side stay on the end of the plank must be:
- | | English | | Metric | |
|--|------------|------------|------------|------------|
| | <u>Max</u> | <u>Min</u> | <u>Max</u> | <u>Min</u> |
| | — | 43.07 | — | 1094 |
22. The components of the mast hound may affect the free orientation of the mast by either forcing mast rotation or limiting mast rotation.

See Rigging Interpretations at the end of the Specifications.

I. Fittings

1. Diameter of the sheaves of the sheet blocks shall not exceed 4" (101.6 mm).
2. Two of the six required blocks may incorporate a one-way feature.
3. Steering chock may incorporate a shock-absorbing feature.
4. Hardware need not conform to plans as long as specifications are not violated and hardware performs the same function that the plan item performs.

5. Side Chock	English		Metric	
	Max	Min	Max	Min
a. Width of runner slot at the smallest dimension where the chocks come in contact with the runner's side or stiffening element:	1-3/32	31/32	27.7	24.7
b. Depth of chock:	3-1/2	2-7/8	88.9	73.1
c. Length of chock:	9	6-3/4	228	172
d. Width of chock:	4-3/4	—	121	—
6. Mast Step - Height of pivoting point (center of ball) above deck:	1-5/8	1-1/8	41	28.6

7. Location of Halyard catch on mast is optional.
8. Halyard must be capable of lowering and raising the sail with yacht in upright position.
9. Additional fittings to secure halyard to mast are permissible.
10. Only one mast, boom, fuselage, and runner plank may be used for an entire regatta, unless broken beyond reasonable repair (as interpreted by the Race Committee).
11. An adjustable footrest may be used.
12. A device may be placed in the back of the chock to prevent the front of the runner from tipping downwards. The device may not contact the runner when all three runners are on the ice.
13. The side chock and the steering chock shall be made of steel, stainless steel or aluminum.

14. Bow Tang	English		Metric	
	<u>Max</u>	<u>Min</u>	<u>Max</u>	<u>Min</u>
a. Width	3-3/4	—	95.3	—
b. Horizontal distance from the pivot axis of the steering runner to the aftermost end of the bow tang:	8	—	203.2	—
c. Height above a horizontal line extending forward from the deck at a point 2" (50.8 mm) behind the bow:	3	—	76.2	—
15. Runner Plank Mounting Hardware				
a. The runner plank mounting system shall not extend more than 4" (101.6 mm) outside of the side panel of the fuselage.				
b. The runner plank mounting system shall be located in an area that does not exceed 30" in the fore and aft dimension.				
16. Bobstay Strut, including Mounting Hardware	English		Metric	
	<u>Max</u>	<u>Min</u>	<u>Max</u>	<u>Min</u>
a. Height (from bottom of skin of fuselage):	—	3	—	76.2
b. Length:	6	—	152.4	—
c. Width:	4	—	101.6	—
17. Mast Step Mounting Hardware				
a. Length:	9	—	228.6	—
b. Width:	3	—	76.2	—

See Fitting Interpretations in the following section.