

Basic Specifications

LOA	29.92'	Displacement (Approx.)	
LWL	25.00'	Factory	6,000 lb.
Beam	11.20'	Sailing	6,700 lb.
Draft	5.25'	Ballast (Lead Keel)	2,100 lb.
I	34.00'	Mast Height over Water	46'
P	38.00'	Auxiliary 15 h.p. Inboard Diesel	
E	13.0'		
J	11.5'		
Sail Area (sqft)			
Main	247		
Jib	196		
Genoa	294		
Spinnaker	704		

Frequently Used Measurements

1 mm = 0.03937 inch

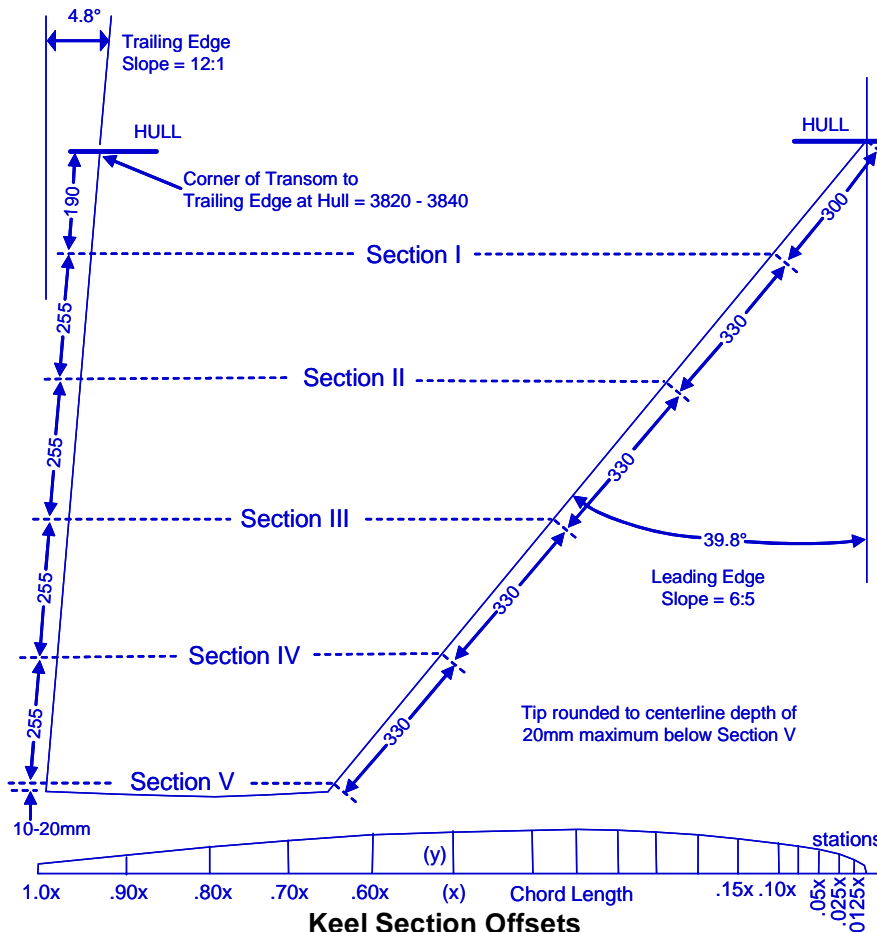
1 m = 39.37 inch

1 inch = 25.4 mm

LOA	29' 11"	Specs
Beam	11' 2 1/2"	Specs
Stem to front of mast (J)	3505±13mm	11' 6" ±1/2" 5.7.3
Mast step	≥ 25 mm	≥ 1" 5.7.3
Spinnaker pole tip-to tip	≤ 3810 mm	≤ 12' 6" 5.11.2
Measurement bands		
Mast, lower, upper edge	≤ 2698 mm	≤ 8' 10 1/4" 5.7.2
Mast, upper, lower edge	≤ 14280 mm	≤ 46' 10 3/16" specs
Mast, distance between (P)	≤ 11582 mm	≤ 38' specs
Boom, inner edge (E)	≤ 3962 mm	≤ 13' 5.10.2
Headstay length	≤ 10935 mm	≤ 35' 10 1/2" 5.8.2
Keel and Rudder, trailing edge	≥ 5 mm	≥ 3/16" 5.5.4, 5.6.1
Draft Marks		
Stem, lower edge	= 1403mm	≥ 4' 7 1/4" 5.14
Rudder, lower edge	= 853 mm	≥ 2' 9 9/16" 5.14

Official Keel Drawing & Offsets

(Dimensions in Millimeters)



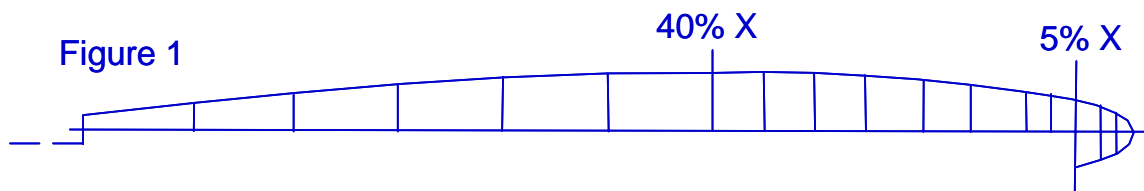
Keel Section Offsets

Location	I	II	III	IV	V
Chord Length	1310	1120	930	740	550
Front - down leading edge from hull	300	630	960	1290	1620
Back - down trailing edge from hull	190	445	700	955	1210
Leading Edge Radius	28.9	24.7	20.5	16.3	12.1
0.0125x	26.2	22.4	18.6	14.8	11.0
0.025x	36.0	30.8	25.6	20.4	15.2
0.05x	49.6	42.4	35.2	28.0	20.8
0.075x	60.7	51.9	43.1	34.3	25.5
0.10x	68.2	58.3	48.4	38.5	28.6
0.15x	78.1	66.8	55.5	44.2	32.9
0.20x	84.5	72.2	59.9	47.6	35.3
0.25x	87.3	74.6	61.9	49.2	36.5
0.30x	88.5	75.7	62.9	50.1	37.3
0.35x	88.5	75.7	62.9	50.1	37.3
0.40x	86.8	74.2	61.6	49.0	36.4
0.50x	77.3	66.1	54.9	43.7	32.5
0.60x	64.9	55.5	46.1	36.7	27.3
0.70x	50.7	43.4	36.1	28.8	21.5
0.80x	34.8	30.1	25.4	20.7	16.0
0.90x	18.8	16.5	14.2	11.9	9.6
1.00x	2.8	2.8	2.8	2.8	2.8

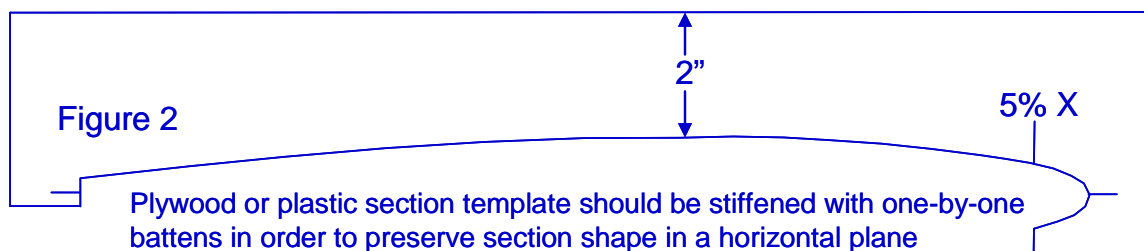
J/30 Keel Template Construction

Keel templates for the J/30 shall consist of five templates and shall be constructed as follows:

1. Lay out each section directly on 1/4" plywood or plastic sheeting. First draw the centerline axis and plot the half-width (y) stations along the chord length (x) as indicated by the official keel table of offsets (Fig. 1). Be sure to notch centerline forward of leading edge and aft of trailing edge for permanent reference.



2. Cut template out of material as shown in Figure 2 being sure to leave the pencil outline of the section showing on the rough template. Fair the cut back to the pencil line to achieve perfect fair using sandpaper and a flexible block.

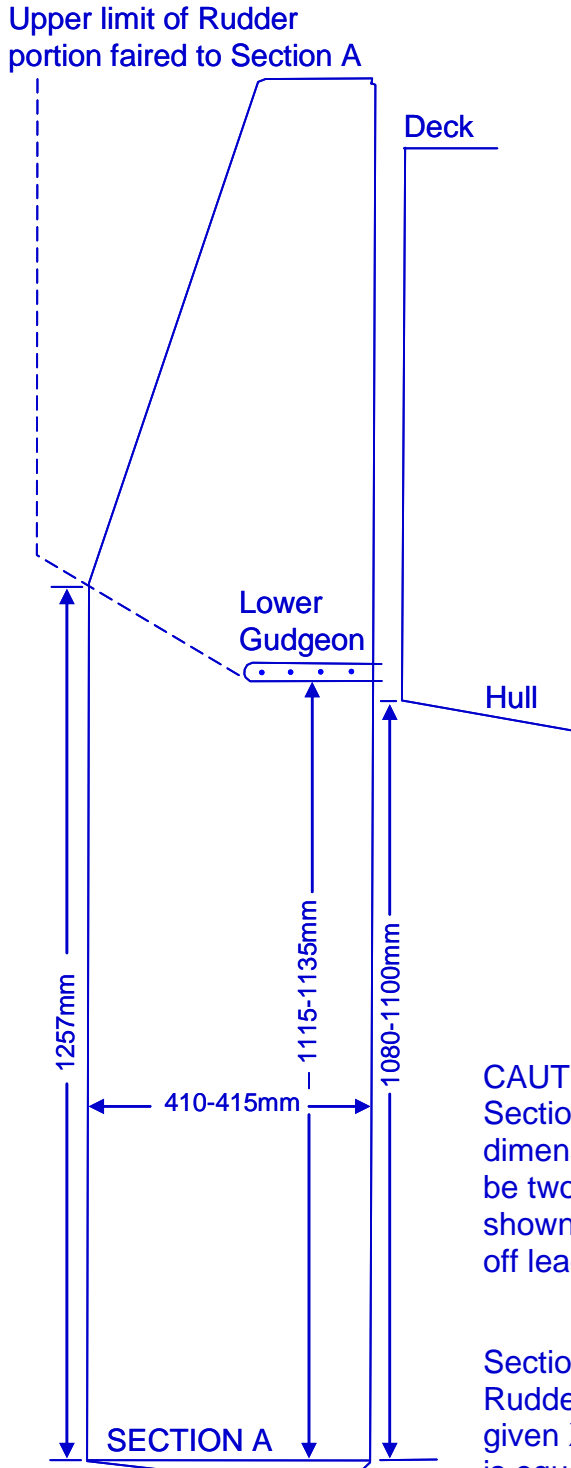


3. Mark off points on the leading edge and trailing edge as specified in the table of offsets. Fit templates to the appropriate marks.

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0.80x	34.8	30.1	25.4	20.7	16.0
0.90x	18.8	16.5	14.2	11.9	9.6
1.00x	2.8	2.8	2.8	2.8	2.8

J/30 Rudder Plan & Offsets

(Dimensions in Millimeters)

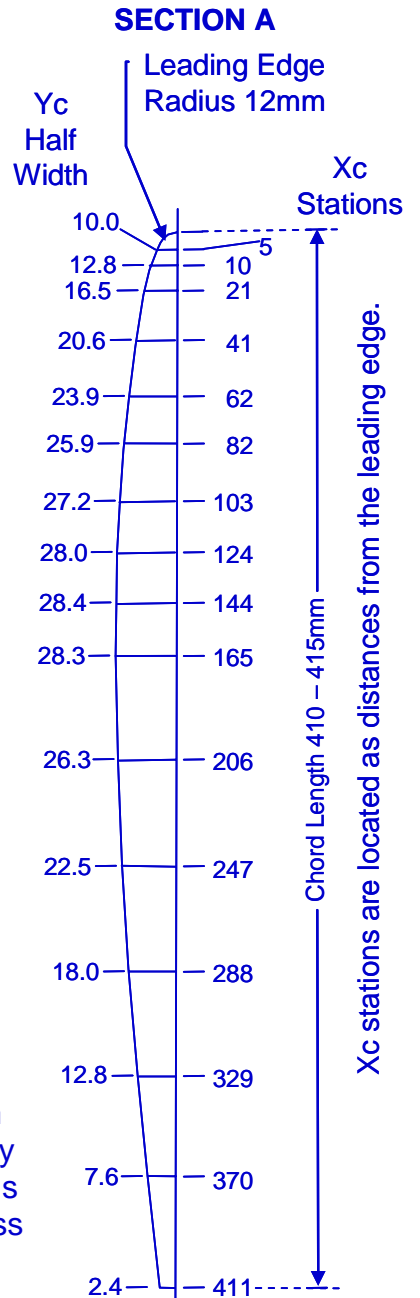


Rudder Offsets

Xc Stations	Yc Half width
5mm	10.0
10mm	12.8
21mm	16.5
41mm	20.6
62mm	23.9
82mm	25.9
103mm	27.2
124mm	28.0
144mm	28.4
165mm	28.3
206mm	26.3
247mm	22.5
288mm	18.0
329mm	12.8
370mm	7.6
Trailing Edge (411mm)	2.4

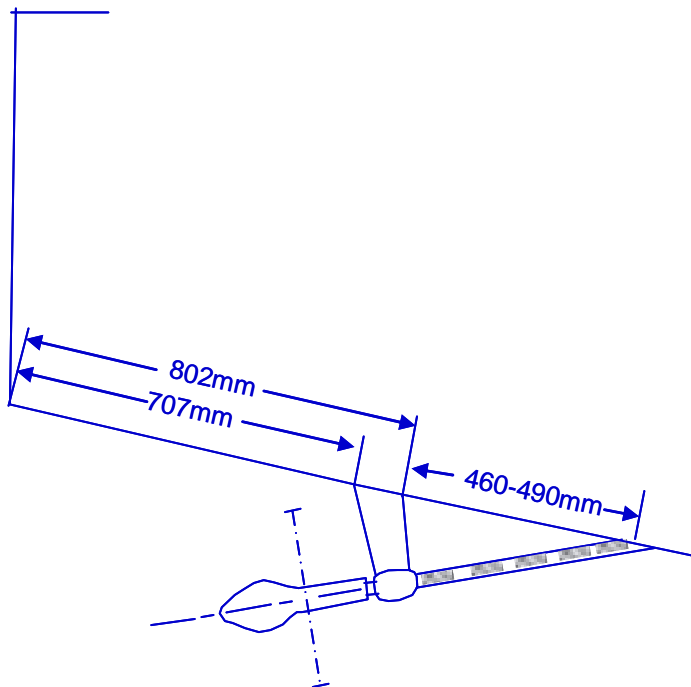
CAUTION:
Section A Offsets represent minimum dimensions. Half-width thickness may be two millimeters greater than what is shown. Do not sand molded fiberglass off leading or trailing edges.

Section A is perpendicular to the leading and trailing edges. Rudder tip is rounded and is defined by a semi-circle at any given Xc Station below the lower limit of Section A whose radius is equal to Yc thickness at that station



J/30 Shaft, Strut, and Propeller Installation Standard

Standard specifications as they relate to Class Rule 5.13.3 and to I.O.R. measurement terms.



Propeller: Standard propeller is folding two-bladed Martec Design Number 23780 – Right Hand, 14 inch diameter, 14 pitch elliptical for 3/4 inch shaft.

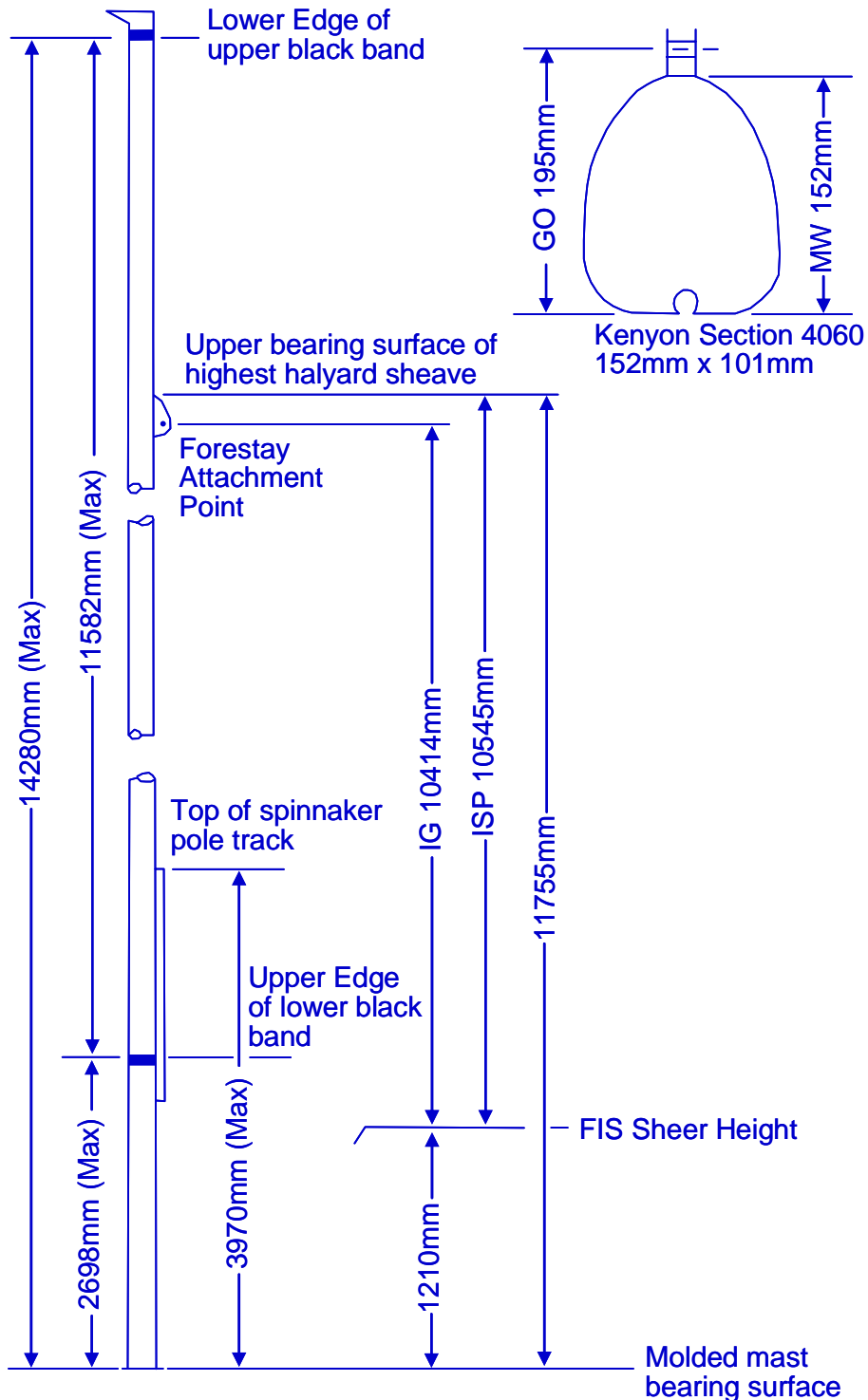
Strut: Cast bronze installed in molded recess in hull. Pertinent I.O.R. dimensions as follows: ST 1 = 18mm, ST 2 = 70mm, ST 3 = 79mm

Other: I.O.R. dimensions:
ESC = 201mm
ESL = 670mm
PRD = 356mm

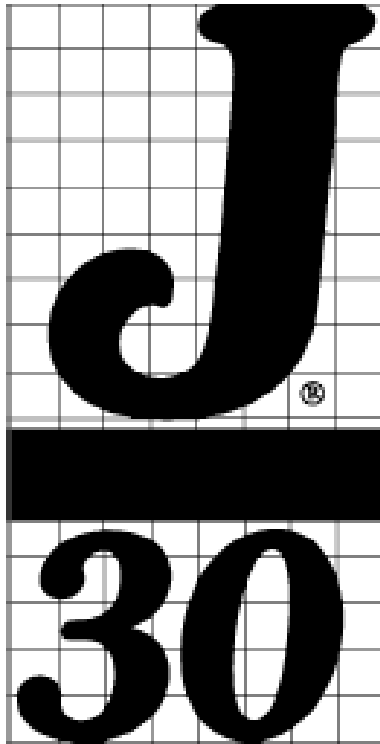
Reference: J/30 Class Rules and I.O.R Mark III

J/30 Mast Specifications Standard

Standard specifications as they relate to Class Rule 5.7 and to I.O.R. measurement terms.



Reference: J/30 Class Rules and I.O.R Mark III



Scale = 50 mm

