

Fram no. 176 Dimensions

Flemming Sorvin

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1 Fram no. 176 Kayak Dimensions

1.1 Standard dimensions:

Length,	(L)	542.8 cm
Beam,	(B max) at 253.2	51.7 cm
Depth to sheer,	(Ds) at 257.1	20.9 cm
o/a Depth,	(D max) at 257.1	25.0 cm
Cockpit length,	o/a	43.9 cm
Cockpit breadth,	o/a	42.9 cm
0 to cockpit,		257.1 cm

1.2 Distance of deck-lines from zero:

DL. 1	(7mm thong)	81.4 cm
DL. 2	"	207.8 cm
DL. 3	"	212.7 cm
DL. 4	"	239.5 cm
DL. 5	"	244.8 cm
Implement rest, S. side		254.5 cm
DL. 6	"	315.6 cm
DL. 7	"	326.5 cm
DL. 8	(missing)	441.0 cm

1.3 Size of members:

Coaming,	(h x d)	3.4 cm x 1.3 cm
Gunwales,	(h x d)	8.4 cm x 1.3 cm
Chime stringers,	(h x d base x d top)	2.7 cm x 1.5 cm x 1.3 cm
Keelson,	(h x d base x d top)	2.2 cm x 1.7 cm x 1.7 cm
Ribs,	(h x d)	1.1 cm x 2.2 cm

1.4 Table of reconstucted dimensions:

Baseline to keel does not include keel rub strip

Station	Heights above baseline						o/a Depth
	Keel Ht	Deck Ht	Chine Ht	Hb	Sheer Ht	Hb	
0	36.88	36.88			36.88	0.00	0.00
25	26.83	34.73			34.73	1.80	7.90
50	16.33	32.48			32.48	3.40	16.15
75	8.73	30.78	12.73	1.00	30.78	5.55	22.05
100	6.63	29.23	10.78	3.65	29.23	8.60	22.60
150	4.53	26.03	8.43	9.80	26.03	16.40	21.50
200	3.28	26.03	7.82	16.59	24.78	22.70	22.75
250	3.50	29.03	8.46	19.85	24.48	25.70	25.53
280	4.33	26.63	9.46	19.65	24.33	25.10	22.30
300	5.07	24.33	10.23	18.85	24.33	24.00	19.26
351	7.28	25.18	11.60	15.32	25.18	20.30	17.90
400	9.03	26.23	13.11	11.42	26.23	16.30	17.20
450	11.93	28.03	15.18	6.08	28.03	10.78	16.10
490	14.83	31.13	18.23	1.22	31.13	5.90	16.30
500	17.73	32.53			32.53	4.45	14.80
518	26.13	34.93			34.93	2.40	8.80
542.8	38.56	38.56			38.56	0.00	0.00

1.5 Bone or Ivory fittings:

- DL. 1 3 “canine teeth”
port (w x l x d) 1.9 cm x 2.1 cm x 0.9 cm
middle (w x l x d) 1.3 cm x 2.7 cm x 1.0 cm
starboard (w x l x d) 1.1 cm x 2.1 cm x 1.4 cm
- DL. 2 & 3 2 bone strap tighteners, rounded on the ends and flat on the bottom
port (w x l x d) 1.6 cm x 4.0 cm x 1.4 cm
 with 0.7 cm diameter holes 2.0 cm apart from center to center
starboard (w x l x d) 2.1 cm x 5.1 cm x 1.3 cm
 with 0.7 cm diameter holes 2.7 cm apart from center to center
- DL. 4 “beads” of three kinds
a) chickpeas – large round, 1.4 cm wide
b) small round – 1.2 cm wide
c) donuts – 1.8 cm long x 1.3 cm wide
from port to starboard, the order is:
a c c b b a a b b c c b
- DL. 5 & 6 1 bone crosspiece, oval shape as viewed from above 8.2 cm long.
The bow tip is 1.0 cm wide; the stern tip is 1.2 cm wide. The widest point is 2.0 cm.
It is 1.4 cm deep.
There are 3 holes: one is 0.7 cm from bow
 two is 2.5 cm from bow
 three is 7.0 from bow
There is also a knotted 0.9 cm braided line on port side of DL. 6.
- Harpoon rest Decorated bone section, with two mounting holes on either of
the long sides and a implement cup carved in the top. It is
3.5 cm at the widest, 5.9 cm long; 3.8 cm at the highest and
2.7 cm at the lowest in the center of the cup. The cup begins
1.2 cm from the side and is centered.
- DL. 7 & 8 1 bone crosspiece, square with rounded edges
(w x l x d) 1.5 cm x 8.0 cm x 1.4 cm
first hole is 1.3 cm from bow
second hole is 6.0 cm from bow

2 Fram no. 176 Paddle Offsets

The overall length is 207.3 cm. The taper from the blade to the loom begins at 83.5 cm and ends at 87.0 cm. The bone end fitting is 7.8 cm long, 49.9 cm wide at 3.9 cm, and 2.2 cm wide at 3.9 cm. The side fittings begin at 7.8 cm, end at 59 cm and are 1 cm wide and 0.93 cm thick at their widest point. The other dimensions are:

Station distance from tip	Thickness	Width
25	2.33	8.78
50	2.53	7.48
75	3.38	6.17
100	4.18	3.04

The widest point is at 3.9 cm from the end and the thickest point is at 100 cm, where it is even along the loom.