

dope. This will permanently shrink the fabric and seal it. After the dope has dried, apply 2 or 3 coats of an exterior gloss house paint. This is your chance to personalize your finished project.

If you punch a hole in the covering the canvas is easily patched with canvas scraps and contact cement.

#### Accessories

You will need floor boards, deck fittings, and a long paddle. A slat seat in lieu of floorboards works well, but a padded camp seat with backrest provides some luxury.

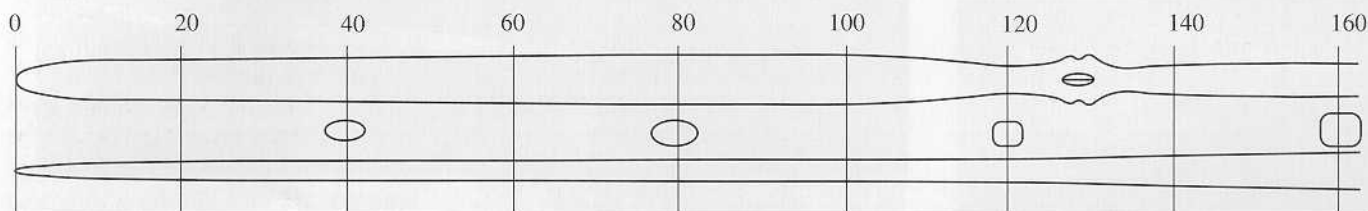
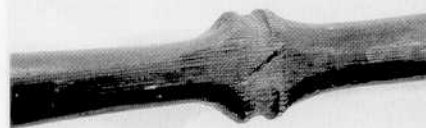


*Above: The author's foot rest is supported by plastic shelving brackets lashed to the gunwales. You could use the same arrangement with brackets made of wood.*

*Right: A drip ring carved into the paddle.*

#### Paddle

The East Arctic paddles were the longest, on average, of any in the Arctic. The long blades often had bone tips for pushing of ice and rock. Drip rings took many forms, including those carved into the shaft. The paddle was used with deep strokes for speed, but for cruising it was kept relatively horizontal and allowed to rest on the forward end of the coaming, sliding back and forth 8 to 10 inches during the stroke. The technique takes practice to master, but it conserves the energy otherwise used for supporting the paddle.



Paddle offsets (All figures in cm from tip to midpoint)

Stations in cm	1	3	5	10	20	30	40	50	60	70	80	90	100	110	120	127.9	128.9	129.8	130	140	150	160	166.5
Half Breadths	1.1	1.5	1.7	2.0	2.3	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.0	2.5	1.8	2.8	2.6	2.8	2.5	1.9	2.3	2.3	2.3
Thickness	1.1	1.3	1.4	1.5	1.9	2.0	2.2	2.4	2.6	2.6	2.7	2.8	2.9	3.1	3.2	3.3	3.3	3.3	3.4	3.7	4.2	4.2	4.2

#### Lumber (nominal sizes)

Clear pine, spruce or cedar

Gunwales: 3 @ 16' x 1" x 6"

Deck beams: 2 @ 12' x 1" x 2"

Special deck beams: 1 @ 5' x 2" x 6"

Forward cockpit deck beam: 1 @ 6' x 1" x 3"

Aft cockpit deck beam: 1 @ 28" x 1" x 3"

Temporary spreaders: 1 @ 5' x 1" x 6"

Forward deck stringer: 1 @ 11' x 1" x 2"

Aft deck stringer: 1 @ 8' x 1" x 2"

Bilge stringers: 2 @ 16' x 1" x 3"

Side stringers: 2 @ 11' x 1" x 2"

Keelson: 1 @ 16' x 1" x 2"; 1 @ 8' x 1" x 2"


Ribs: 35 @ 32" x 1" x 1/2" (max. finished size)

Cockpit coaming: 1 @ 5' x 1" x 3"

(Bending oak, ash or yellow cedar may be used for the ribs, coaming, and mask and steam-bent without kerfs. Some thinning of the piece in the area of the kerfs will help tighten the radius of the bend. Experiment with some scraps.)

#### Other materials

Tarred nylon seine twine #30 (Industrial Marine Marketing, 10 High St., Building 12, Wakefield, RI 02879 USA), 23' x 60" #10 canvas, 1/4" hardwood dowels, 1/8" hardwood dowels, waterproof glue, white waxed polyester handsewing thread, clear butyrate dope, thinned 1:1 with butyrate reducer (Poly-Fiber—www.polyfiber.com—or Aircraft Spruce Specialties—www.aircraftspruce.com), exterior gloss house paint.

The tenon cutter used was the 1/2" Veritas mini tenon cutter: www.leevalley.com 

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