

DIMENSIONS:

Length: 660 cm = 21.65 ft
 Beam: 70 cm = 28.35 in
 Depth: 33 cm = 13.0 in

MATERIALS:

Ribs, Hatchway frames,
 Stringers nos. I, II, III, V;
 0.5 in OD x .049 in wall
 6061-T6 aluminum tubing.
 60.35 m = 198 ft
 7.35 kg = 16.2 lb

Keel (Ø), Gunwales (IV);
 0.75 in OD x .049 in wall
 6061-T6 aluminum tubing.
 18.67 m = 61.27 ft
 3.53 kg = 7.8 lb

Stern, Stern, Bulkheads
 (sta. 1 & 11), Foredeck,
 Quarterdeck, Hatch
 coamings, Rudder quadrants;
 .063 in 6061-T6, 5083 or
 5086 aluminum sheet.
 4805 sq cm = 5.17 sq ft
 2.1 kg = 4.67 lb

Frame/gunwale knees, Mast
 partner, Sternhead,
 Sternspacers, Rudder blade,
 Rudder spacer;
 .125 in 6061-T6, 5083 or
 5086 aluminum sheet.
 700 sq cm = .75 sq ft
 0.62 kg = 1.36 lb

Structural lashings, skin
 sutures, misc. joinery, etc.;
 45-lb test braided nylon
 twine, hollow core.
 600 yd = .25 kg = .5 lb

Hatch coaming rims;
 3/4-in (18mm) Ø braided
 nylon or polyester.
 3.64 m = 12 ft = 2.0 lb

Skin membrane, hull & deck;
 26-oz double-weave nylon
 fabric, 68", uncoated,
 ≈ 80,000 sq cm ≈ 86 sq ft
 6.88 kg = 15.15 lb

Skin coatings, elastomeric,
 applied (by brush) to suit:
 Neoprene (5-6 coats on
 hull, 1-2 coats on deck)
 and Hypalon (2-3 topcoats
 on deck), solvent-based,
 ≈40% solids by weight.
 Approx. 4 gallons total,
 .07 g/sq cm coverage,
 total ≈ 5.4 kg ≈ 11.8 lb

DISPLACEMENT (Bare Hull):

Skeleton: 13.83 kg = 30.42 lb
 Skin: 13.21 kg = 29.06 lb
 Total: 27.04 kg = 59.48 lb

SYNOPSIS:

This kayak's lineage cannot be traced to any particular historical design, though its lines are reminiscent of the hull forms that resulted when Aleut design traditions and structural techniques were applied to the long-distance voyaging and load carrying requirements that characterized North Pacific kayaking during the Russian-American period some two centuries ago. The objective of this design is a safe, comfortable cruising vessel for all-purpose work, able to carry a small sail for downwind passages (sail plan to follow the initial release of these plans) yet still displaying a good turn of speed under paddle alone. Length, beam, and displacement represent a working compromise between speed, sea-kindliness, and amphibious qualities, recognizing that the baidarka's traditional portability now extends to travel on top of cars.

NOTICE:

Purchase of these plans conveys the license to build one copy of this design. Any subsequent or additional use requires the specific permission of the copyright holder. Non-commercial requests (including requests to adapt these lines without purchasing a complete set of plans—to other materials, methodology, etc.) will usually be granted without charge or for a nominal fee. For more information, please contact:

Dyson, Baidarka
 & Company
 435 West Holly St.
 Bellingham, WA
 USA 98225
 Tel: 206-734-9226
 Fax: 206-671-9736

Thanks!
 George B. Dyson
 9/8/92

