

Cumulative Area Centroid = 100.18

Volume Displacement = 6200.31

Center of Buoyancy = 105.63,

Wetted Surface Area = 2653.66

Waterline Length = 163.84

Maximum Waterline Beam = 20.95

Water Plane Area = 2197.02

Center of Floatation = 104.45,

kayak is 50 pounds
kayaker is 180 pounds

230 pounds will displace
6200.3 cubic inches of
salt water

beam / 21, length / 200.915

freeboard at back of coming / 3.8

height of deck at front of coming / 13

height of deck at back of coming / 7.85

water line % of longitudinal center of buoyancy is: $84.04 / 163.84 = 51.3$

