

Overnight Charter Boat
 "NORTHWEST NATIVE" Project

The midship section drawing below shows basic structure of a fiberglass small passenger vessel. Note the use of "sandwich" construction in the shell and decks. The core material is cross-linked PVC foam. There is no wood structure in the hull, and very little in the deckhouse. Typically, for a boat this size, there are several other structural drawings needed to convey the structural design of the entire vessel. So what is shown here is just a preliminary structural design.

Principal Characteristics:

- Length Overall: 63'-2" (19.2m)
- Beam: 19'-0" (5.79m)
- Keel (Navigational) Draft: 7'-2" (2.17m)
- Displacement (full load): 119,800 lbs (54.4t)
- Construction material: GRP (e-glass / vinylster)
- Sandwich core material: Airlite B-5.00 foam
- Main diesel engines: (2) Cummins QSL9 (pending)
- Brake horsepower: 2 x 405 = 810 BHP total (Medium Continuous Duty rating @ 2100 RPM)
- Fuel capacity: approx 2000 gallons (7570 liters)
- Fresh water capacity: approx 400 gallons (1514 liters)
- Passenger capacity: 12 for overnight cruises / 36 for day-trips

