

# 50' MOTORYACHT

Aluminum design no. 84-501

## Objective:

A coastal cruiser with an efficient hull at modest speeds (8 to 12 knots) but with the ability to achieve higher speeds 12 to 20 knots) if required.

## Hull Form

The hull is of a moderate deadrise 'V' type semi-displacement hard chine with moulded in spray rail above the waterline. This particular hull form was first used by us in 1972 for a 33' cruiser and we have used it on several designs since. It is most suitable for vessels operating at moderate speeds (speed/length ratios of 1.5 to 3) and offers good performance potential with economy of operation as well as excellent tracking and sea-keeping properties. And, since there is no chine 'flat' near the water there is no annoying 'wave slapping' when moored on a quiet night.

## Construction

The hull is of welded marine grade aluminum with scantlings in compliance with American Bureau of Shipping rules. Framing consists of longitudinal 'T' bars spaced approximately 14" on center supported by transverse web frames spaced approximately 45" on center. We have used full conically developed panels on both bottom and topsides to facilitate plating and to minimize the use of fairing compounds in finishing.

The superstructure is of welded aluminum similar to the hull with special attention to fairness and corner detailing

## PARTICULARS

Length overall.....	50'-9"	Length waterline .....	45'- 0"
Beam (moulded).....	16'- 0"	.Beam waterline .....	14'- 0"
Depth (moulded).....	8'- 9"	.Draft (1/2 load) .....	4'- 6"
Freeboard - for'd.....	7'- 3"	.Freeboard - aft .....	3'- 6"
Height clearance*.....	14'-6"	.Displacement(1/2 load).....	47,000 lb
Fuel (U.S. Gal.).....	695	.Water (U.S. Gal.) .....	432
Speed - max.trial.....	19 kn	.Speed - cruise .....	12 kn
Range (12 kn).....	450 nm	.Range at 10 kn.....	570 nm
Accommodation.....	4/8	.Pounds/inch immersion.....	2705

\*Waterline to top of bridge screen (mast(s) folded

## Note:

- (a) Since this was a custom design it has many features which reflect the needs of the original client. These features may not appeal to others and can be modified.
- (b) The owner fitted 'floating floor' cabin soles. Sound level at 11 knots, 74 DbA in the saloon and 67 DbA in the wheelhouse.

J. SIMPSON LTD, 4876 59<sup>th</sup> St., Delta, BC, Canada V4K 4L7

[ file: 84501Myspecsht.docx ]