Steelaway Bill of Materials

The following is a general listing of the primary steel members required to build the vessel, including their description, sizes, lengths, and/or square footage. This listing is to serve as a general guide only, and is not meant to be allinclusive. Hence, the builder should not use this listing to purchase materials without checking to the plans first to verify sizes and options. In all cases, the builder should check local sources in order to determine stock sizes of materials that may be available. How the members are obtained from the stock and the manner in which the material is utilized will vary to suit stock sizes of materials available in the locale where the boat will be built. This is why many members are listed by square footage. In other cases, members may be obtainable from flat bar, plate, or sheet material: it makes little difference in steel construction. Also, square footage or lineal footage may be given for contoured members which are cut to shape from plate or sheet stock, or could optionally be formed or bent from flat bar stock. Sizes and areas of materials generally include a factor for overage so that minor members not specifically noted can be obtained from scrap material.

ITEM	SIZE	AMOUNT RQD.
Keel base	3/4" plate	12 sq. ft.
Keel leading edge	3" O.D. 1/4" wall tube	6 lin. ft.
Keel & transom stiffeners	3/16" x 1-1/2" flat bar	105 lin. ft.
Keel shell plating	3/16" plate	120 sq. ft.
Bottom shell plating	3/16" plate	200 sq. ft.
Side & transom plating	10 ga.	380 sq. ft.

3/16" x 1-3/4" flat bar	350 lin. ft.
1/2" rd. bar	220 lin. ft.
3/16" x 2" plate or bar	84 lin. ft.
2-1/4" O.D. 1/4" wall tube	6 lin. ft.
1/4" plate	10 sq. ft.
1/4" plate	6 sq. ft.
1/4" x 2" flat bar	20 lin. ft.
3/16" plate	110 sq. ft.
1/4" x 2-1/2" flat bar	9 lin. ft.
3/16" plate	10 sq. ft.
11 ga.	100 sq. ft.
10 ga.	200 sq. ft.
3/16" x 1-1/2" flat bar	144 lin. ft.
1/8" x 1-1/4" flat bar	22 lin. ft.
	1/2" rd. bar 3/16" x 2" plate or bar 2-1/4" O.D. 1/4" wall tube 1/4" plate 1/4" plate 1/4" x 2" flat bar 3/16" plate 1/4" x 2-1/2" flat bar 3/16" plate 11 ga. 10 ga. 3/16" x 1-1/2" flat bar

Carling	3/16" x 5" plate or bar	54 lin. ft.
Rudder stock	2" O.D. 1/4" wall tube	7 lin. ft.
Rudder plating	10 ga.	18 sq. ft.
Bowsprit (square tube)	3" x 3" x 0.18" wall	8 lin. ft.