

Aurora 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 all-inclusive. 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	9 sq. ft.
Keel leading edge	3" O.D. 1/4" wall tube	6 lin. ft.
Hull, transom, keel & deck stiffeners	3/16" x 1-1/2" flat bar	540 lin. ft.
Keel shell plating	3/16" plate	108 sq. ft.
Hull shell plating	10 ga.	510 sq. ft.
Chine bars	1/2" rd. bar	180 lin. ft.

Bulwark rail base	3/16" x 2" plate or bar	78 lin. ft.
Stern tube	2-1/8" O.D. 1/4" wall tube	3 lin. ft.
Mast step girder	1/4" plate	12 sq. ft.
Engine girders	1/4" plate	8 sq. ft.
Frames, floors & deck beams	3/16" plate	94 sq. ft.
Stem	1/4" x 2-1/2" flat bar	12 lin. ft.
Collision bulkhead	3/16" plate	10 sq. ft.
Tanks	11 ga.	85 sq. ft.
Decking	10 ga.	122 sq. ft.
Carling	3/16" x 5" plate or bar	60 lin. ft.
Rudder stock	1-3/4" O.D. rd. bar	7 lin. ft.
Rudder plating	10 ga.	18 sq. ft.
Bowsprit (square tube)	3" x 3" x 0.18" wall	6 lin. ft.