

McDrift 16' Bill of Materials

The following is an estimate of the aluminum required to build the McDRIFT 16' version. See the Guide for aluminum alloy recommendations. The square footage of aluminum sheet (the term sheet and plate have been used interchangeably in plans and instructions) will vary depending on the width of materials used. Our estimate includes an overage. The side and bottom templates given on the patterns and the details on Plansheet 2 of 3 are to a scale of 1" = 1'0". Make paper duplicates of the various members to be sawn from sheet stock and arrange on a scaled drawing of the width and length of stock available to determine how to obtain the parts with minimal wastage; or as noted previously, use full size plywood mock-ups. As an example, the side panels will require two 4' wide sheets, however, both sides can be obtained from a single 5' width. Will it be cheaper to order all wide stock from your vendor or both 4' and 5' widths? Lengths of extruded members allow for cutting to size from the work and should be grouped and standard aluminum lengths purchased rather than custom cut stock. Check all sizes to the work BEFORE ordering any material.

ITEM	MATERIAL	NO. PCS	LENGTH
Sides, bottom & other sheet members (see transom options)	1/8" sheet	200 sq. ft.	NA
Bottom longitudinals	1" x 2" x 1/8" chan.	1 2	14' 11'
Center Cross frame	1" x 2" x 1/8" chan.	1	4' 6"
Fwd Cross frames	1" x 2" x 1/8" chan.	1	3' 6"
Aft Cross frames	1" x 2" x 1/8" chan.	1	3' 6"
Fore and aft seat cross member	1" x 2" x 1/8" chan.	makes both	7'
Fore and aft seat centerline brace	1" x 1" x 1/8" angle	makes both	4' 6"
Shelf longitudinal angle	1-1/4" x 1-1/4" x 1/8" angle	makes both	13'
Chine angle	1" x 1" x 1/8" angle	2	15'
Sheer	1-1/4" Sched 80 alum pipe	2	18'
	OR optional 1/2" x 1-1/2" x 1/8" chan	2	18'
Sheer across transom	either of above		2'
<i>The following can be used as a general guideline for selecting materials. However, the listing</i>			

is not necessarily all encompassing nor given in order of preference. To figure hull cost, use weight of hull times cost per pound.

COMPONENTS & MATERIAL

Hull plating and decking

5052-H32 to H36

5086-H32, H34, H112 or H116

5456-H116

Framing

5052-H32 to H36

5086-H32, H34, H112, or H116

5050-H34 or H36

5456-H116, 6061-T6

Extrusions

6061-T4 or T6, 5086

5052, 6061-T6

Piping

6063-T6, 5456-H116

NOTES TO PRECEEDING:

When buying aluminum sheet or plate goods, the terminology "sheet" refers to material of .188" or less (nominally 3/16" or thinner), while the terminology "plate" refers to material .25" (1/4") or more.