



## Bill of Materials – Freedom 13

*Note: Additional material will be required for varnishing or painting.*

### BUILD OPTIONS

#### **Option #1: Fiberglass tape seams only, 6mm plywood for entire hull.**

Benefits: The least expensive option and is easier to build with incremental steps.

Limitations: Over time, lesser quality plywood can develop small cracks in the surface (referred to as *checking*). Fiberglass cloth will help prevent this but fiberglass tape will not.

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#### **Option #2: Fiberglass cloth applied to the inside and outside of hull. 4mm plywood for the entire hull.**

Benefits: This option will provide the best long-term protection of the plywood. Done properly, it will provide a slightly lighter, but stronger hull than Option #1.

Limitations: Most expensive of the options and better planning is required to work with the larger pieces of fiberglass cloth.

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<u>Plywood:</u> 4' x 8' sheets (see plans and above options)		2 each
<u>Epoxy Resin</u> (and hardener):	Option 1:	1.5 g (6 L)
	Option 2:	2.5 g (10 L)
<u>Fiberglass Tape</u> , 6 ounce, 4"	Option 1:	100 yards (91 M)
<u>Fiberglass Cloth</u> , 6 ounce, 38" wide	Option 2:	19 yards (12 M)
<u>Wood Flour:</u>	All options	2 quart (2 L)

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### Light Weight Options

**CAUTION:** Building with this option will result in the hull not being as strong and will take more skill to *BUILD AND USE*. We only recommend this option to those who have intermediate paddling skills and know how ***not*** to push the limitations of a kayak.

**Option #1:** Use 4mm plywood and 4-ounce fiberglass tape.

**Option #2:** Use 3mm plywood and 4-ounce fiberglass cloth.