

Blandford Bill of Material

1/27/2018

Part 1

Build Board 1:32

Top 1'-1 5/8" x 8 15/16" x 1/4"

Bottom 1'-1 5/8" x 8 15/16" x 3/4"

Supports 3/4" x 3/4" x 3 15/16" (4 req'd)

Support Gussets 3/4" x 3/4" (4 req'd)

Build Board 1:48

Top 8 11/16" x 5 3/4" x 3/16"

Bottom 8 11/16" x 5 3/4" x 1/2"

Supports 1/2" x 1/2" x 2 9/16" (4 req'd)

Support Gussets 1/2" x 1/2" (4 req'd)

Keel Assembly 1:32

False keel 3/8" x 3/32" x 10"

Keel 3/8" x 2" x 10" (Trim per drawing as req'd)

Brass Tubing 3/32" Diameter x 9/16" long (2 req'd)

Keel Assembly 1:48

False keel 1/4" x 1/16" x 7"

Keel 1/4" x 1 1/2" x 7" (Trim per drawing as req'd)

Brass Tubing 3/32" Diameter x 9/16" long (2 req'd)

Part 1 Recommended Timber

Build Board

Top	Plywood or Masonite
Bottom	Plywood or Particleboard
Supports	Pine, Spruce or Fir
Gussets	Particleboard, Pine, Spruce or Fir

Keel Assembly

False Keel	Walnut, Rosewood or other dark colored hardwood
Keel	Boxwood, Maple, Cheery, European Beechwood or popular
Pins	Brass Tubing

1/27/2018

Note:

If you are only using hand tools I would recommend Basswood for the model. It is easy to work and can be painted or stained assorted colors.

Part 2

Frames

Frames 1:32 18 pieces 3"x12"x1/4" wood (same species that you are using for all the framing) Length can be combined for ordering.

1 package of 20-gauge brass wire (for bolts)

Frames 1:48 18 pieces 2"x8"x3/16" wood (same species that you are using for all the framing) Length can be combined for ordering.

1 package of 22-gauge brass wire (for bolts)

Part 3

Hold Framing 1:48

Keelson 1:48 1 pieces 1/4 x 1/4 x 5 3/16"
Limber Boards 2 pieces 1/4 x 1/16 x 5 3/16"
Strake 10 pieces 1/4 x 3/32 x 5 3/16"
Footwaling 10 pieces 1/8 x 1/32 x 5 3/16"
 6 pieces 3/16 x 1/32 x 5 3/16"
Deck Clamps 2 pieces 9/16 x 3/32 x 5 3/16"

Well & Shot locker 1:48

Sides 28 pieces 1/8 x 1/16 x 2 3/8"
Ends & top 28 pieces 1/8 x 1/16 x 1 1/2"
Well Posts 6 pieces 1/16 x 1/16 x 2"
Hinges 2 pieces 3/32 x 5/8"
Mast Step 1 pieces 3/8 x 5/16 x 1 1/4"
Deck Pillars 4 pieces 3/16 x 3/16 x 2 1/6"

Elm Tree Pumps 1:48

Pump Casing	2 pieces 5/16" diameter x 4 9/16"
Discharge ports	4 pieces 3/32" diameter x 3/16"
Break Handle	2 pieces 1/16 x 1/32 x 1 9/16"
Connecting Rod	2 pieces 20-gauge brass wire 4 1/2"

Chain Pumps 1:48

Cistern	1 pieces 1 5/8 x 3/4 x 1/2"
Wheel Cover	2 pieces 1/2" diameter x 5/16"
Pump Dale	2 pieces 3/16 x 3/16 x 2 7/16"
End Piece	2 pieces 7/16 x 1/16 x 7/8"
Supply and	
Return Case	4 pieces 3/16 x 3/16 x 1" (Trim to fit)
Crank Handle	2 pieces 18-gauge brass wire 6 1/2" Long

Hold Framing 1:32

Keelson 1:32	1 pieces 3/8 x 3/8 x 7 13/16"
Limber Boards	2 pieces 3/8 x 3/32 x 7 13/16"
Strake	10 pieces 3/8 x 1/8 x 7 13/16"
Footwaling	10 pieces 3/32 x 3/64 x 7 13/16"
	6 pieces 1/4 x 3/64 x 7 13/16"
Deck Clamps	2 pieces 13/16 x 5/32 x 7 13/16"

Well & Shot locker 1:32

Sides	28 pieces $3/16 \times 3/32 \times 3 \frac{9}{16}$ "
Ends & top	28 pieces $3/16 \times 3/32 \times 2 \frac{1}{4}$ "
Well Posts	6 pieces $3/32 \times 3/32 \times 3$ "
Hinges	2 pieces $5/32 \times 15/16$ "
Mast Step	1 pieces $9/16$ " $\times 7/16 \times 1 \frac{7}{8}$ "
Deck Pillars	4 pieces $9/32 \times 9/32 \times 3 \frac{3}{32}$ "

Elm Tree Pumps 1:32

Pump Casing	2 pieces $1/2$ " diameter $\times 6 \frac{5}{8}$ "
Discharge ports	4 pieces $1/8$ " diameter $\times 1/4$ "
Break Handle	2 pieces $3/32 \times 1/16 \times 2 \frac{1}{4}$ "
Connecting Rod	2 pieces 20-gauge brass wire $4 \frac{1}{2}$ "

Chain Pumps 1:32

Cistern	1 piece $2 \frac{7}{16} \times 15/16 \times 3/4$ "
Wheel Cover	2 pieces $3/4$ " diameter $\times 1/2$ "
Pump Dale	2 pieces $1/4 \times 1/4 \times 3 \frac{5}{8}$ "
End Piece	2 pieces $11/16 \times 3/32 \times 1 \frac{1}{4}$ "
Supply and Return Case	4 pieces $1/4 \times 1/4 \times 1 \frac{1}{2}$ " (Trim to fit)
Crank Handle	2 pieces 18-gauge brass wire $9 \frac{3}{4}$ "

Part 4

Lower Deck Framing 1:48

Lower Deck beams	1 piece 2 x 7 x 1/8"
Lower Deck Arms	1 piece 2 x 4 x 1/8"
Lower Deck Knees	1 piece 2 x 5 x 1/8"
Lower Deck Hanging Knees	1 piece 2 x 4 x 1/8"
Hatchway Sides	1 piece 1/8 x 1/4 x 14"
Grating	6 square inches
Planking – trim to fit	18 pieces 3/16 x 1/16 x 6" 7 pieces 1/4 x 1/16 x 6"
Waterway – trim to fit	2 pieces 1/4 x 1/8 x 6"
Pillars – trim to fit	1 piece 1/8 x 1/8 x 12"
Mast	5/16" diameter x 6"
Lower Deck Spirketting	8 pieces 1/4 x 1/16 x 6"

Lower Deck Framing 1:32

Lower Deck beams	1 piece 3 x 11 x 3/16"
Lower Deck Arms	1 piece 3 x 6 x 3/16"
Lower Deck Knees	1 piece 3 x 6 x 3/16"
Lower Deck Hanging Knees	1 piece 3 x 6 x 3/16"
Hatchway Sides	1 piece 3/16 x 3/8 x 21"
Grating	9 square inches
Planking – trim to fit	18 pieces 1/4 x 3/32 x 9" 7 pieces 3/8 x 3/32 x 9"

Waterway – trim to fit	2 pieces 3/8 x 3/32 x 9”
Pillars – trim to fit	1 piece 3/16 x 3/16 x 18”
Mast	1/2” diameter x 9”
Lower Deck Spirketting	8 pieces 3/8 x 3/32 x 9”

Part 5

Main Deck Framing 1:48

Main Deck Beams	1 piece 3 x 11 x 3/16”
Main Deck Arms	1 piece 3 x 6 x 3/16”
Main Deck Knees	1 piece 3 x 6 x 3/16”
Main Deck Hanging Knees	1 piece 3 x 6 x 3/16”
Hatchway Sides	1 piece 3/16 x 3/8 x 21”
Grating	9 square inches
Planking – trim to fit	18 pieces 1/4 x 3/32 x 9” 7 pieces 3/8 x 3/32 x 9”
Waterway – trim to fit	2 pieces 3/8 x 3/32 x 9”
Pillars – trim to fit	1 piece 3/16 x 3/16 x 18”
Mast	1/2” diameter x 9”
Main Deck Spirketting	2 pieces 3/8 x 3/32 x 9”
Main Deck planking	18 pieces 1/4 x 3/32 x 9”
Waterway – trim to fit	2 pieces 3/8 x 3/32 x 9”

Pillars – trim to fit	1 piece 3/16 x 3/16 x 18"
Mast - see drawing for dims.	1/2" diameter x 9" dowel rod
Bits	5/32 x 5/32 x 16"
6 Pounder Canons	1/2" x 1/2" x 2 1/2" each (2-Gun or 4-Gun option)
Carriages (mat. for two)	sides 1"x6"x1/16", axles 1"x3"x1/16", transom 1"x2"x1/8", quoin 1/2"x3"x1/8"
<u>Elm Tree Pumps</u>	3/16" Diameter x 6" dowel rod. 1/8" x 1" dowel rod, 1/8" x 1/32" x 14" wood strip, 20 gauge brass wire.

Main Deck Framing 1:32

Main Deck Beams	1 piece 4 1/2 x 18 x 1/4"
Main Deck Arms	1 piece 4 1/2 x 9 x 1/4"
Main Deck Knees	1 piece 4 1/2 x 6 x 1/4"
Main Deck Hanging Knees	1 piece 4 1/2 x 9 x 1/4"
Hatchway Sides	1 piece 1/4 x 1/2 x 32"
Grating	14 square inches
Planking – trim to fit	18 pieces 3/8 x 1/8 x 14" 7 pieces 1/2 x 1/8 x 14"
Waterway – trim to fit	2 pieces 1/2 x 1/8 x 14"
Pillars – trim to fit	1 piece 1/4 x 1/4 x 27"
Mast	3/4" diameter x 14"
Main Deck Spirketting	2 pieces 1/2 x 5/32 x 14"
Main Deck planking	18 pieces 3/8 x 5/32 x 14"
Waterway – trim to fit	2 pieces 1/2 x 5/32 x 14"
Pillars – trim to fit	1 piece 1/4 x 1/4 x 27"
Mast - see drawing for dims.	3/4" diameter x 14" dowel rod

Bits	$\frac{1}{4}$ x $\frac{1}{4}$ x 24"
Carriages (mat. for two)	sides 1"x6"x $\frac{1}{16}$ ", axles 1"x3"x $\frac{1}{16}$ ", transom 1"x 2"x $\frac{1}{8}$ ", quoin $\frac{1}{2}$ " x 3" x $\frac{1}{8}$ "
<u>Elm Tree Pumps</u>	$\frac{1}{4}$ " Diameter x 8" dowel rod. $\frac{3}{16}$ x 1" dowel rod, $\frac{1}{8}$ " x $\frac{1}{32}$ " x 14" wood strip, 20 gauge brass wire.

Part 6

Rails 1:48

Planksheer Rails	2 pieces $\frac{1}{4}$ x $\frac{3}{16}$ x 6" trim to fit
Waist Rails	2 pieces $\frac{1}{4}$ x $\frac{1}{8}$ x 6" trim to fit
Gun Port Liner	1 piece $\frac{1}{4}$ x $\frac{1}{16}$ x 6"
Ladder	1 piece $\frac{3}{16}$ x $\frac{1}{16}$ x 4" runners 1 piece $\frac{3}{16}$ x $\frac{1}{32}$ x 6" steps
Cleats	1 piece $\frac{1}{16}$ x $\frac{1}{32}$ x 2" 1 piece $\frac{1}{16}$ x $\frac{1}{16}$ x 2"
Exterior Planking	2 pieces 1 $\frac{3}{4}$ " x $\frac{1}{16}$ " x 6"
Main Channels	2 pieces $\frac{3}{8}$ " x $\frac{1}{16}$ " x 6" 1 piece $\frac{1}{16}$ " x $\frac{1}{32}$ " x 6"
Deadeyes	10 pieces $\frac{3}{16}$ " diameter 2 pieces $\frac{5}{32}$ " diameter
Wales	2 pieces 1 $\frac{1}{4}$ x $\frac{3}{32}$ x 6"
Sweep Port Covers	1 piece $\frac{3}{16}$ x $\frac{1}{16}$ x 5"
Pump Dale Outlets	2 pieces $\frac{1}{8}$ " diameter x $\frac{1}{2}$ " long brass tubing
Ballast Port Covers	2 pieces $\frac{5}{16}$ x $\frac{5}{16}$ x $\frac{1}{16}$ "
Fenders	1 piece 2 x 2 x $\frac{1}{8}$ "

Steeps	1 piece $3/16 \times 1/64 \times 14$ "
	1 piece $1/8 \times 1/32 \times 14$ "
Display Stand	1 piece $7 \times 1/2 \times 5 \ 3/16$ " Base
	2 pieces $1 \ 3/4 \times 1 \ 1/2 \times 3/8$ " End Supports
	4 pieces $1/8$ " thick felt pads see drawing

Rails 1:32

Planksheer Rails	2 pieces $3/8 \times 9/32 \times 9$ " trim to fit
Waist Rails	2 pieces $3/8 \times 3/16 \times 9$ " trim to fit
Gun Port Liner	1 piece $3/16 \times 1/16 \times 9$ "
Ladder	1 piece $3/16 \times 1/16 \times 4$ " runners
	1 piece $3/16 \times 1/32 \times 6$ " steps
Cleats	1 piece $1/16 \times 1/32 \times 2$ "
	1 piece $1/16 \times 1/16 \times 2$ "
Exterior Planking	2 pieces $4 \ 1/2" \times 3/32" \times 9$ "
Main Channels	2 pieces $9/16" \times 3/32" \times 9$ "
	1 piece $3/32" \times 1/16" \times 9$ "
Deadeyes	10 pieces $1/4$ " diameter
	2 pieces $3/16$ " diameter
Wales	2 pieces $2 \ 7/8 \times 5/32 \times 9$ "
Sweep Port Covers	1 piece $1/4 \times 1/16 \times 8$ "
Pump Dale Outlets	2 pieces $1/8$ " diameter $\times 1/2$ " long brass tubing
Ballast Port Covers	2 pieces $1/2 \times 1/2 \times 1/16$ "
Fenders	1 piece $3 \times 3 \times 1/8$ "

Steeps	1 piece $3/16 \times 1/64 \times 21$ "
	1 piece $1/8 \times 1/32 \times 21$ "
Display Stand	1 piece $11 \times 3/4 \times 9$ " Base
	2 pieces $1 \ 3/4 \times 1 \ 3/4 \times 1/2$ " End Supports
	4 pieces $1/8$ " thick felt pads see drawing