Blandford Bill of Material

1/25/2018

Part 1

Build Board1:32

Top 1’-1 5/8” x 8 15/16” x ¼”

Bottom 1’-1 5/8” x 8 15/16” x ¾”

Supports ¾” x ¾” x 3 15/16” (4 req’d)

Support Gussets ¾” x ¾” (4 req’d)

Build Board1:48

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”x10” (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” x7”

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 Fur

Gussets Particleboard, Pine, Spruce or Fur

Keel Assembly

False Keel Walnut, Rosewood or other dark colored hardwood

Keel Boxwood, Maple, Cheery, European Beechwood or popular

Pins Brass Tubing

1/25/2018

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.

 I 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.

 I 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 x 3/32 x 3 9/16”

Ends & top 28 pieces 3/16 x 3/32 x 2 1/4”

Well Posts 6 pieces 3/32 x 3/32 x 3”

Hinges 2 pieces 5/32 x 15/16”

Mast Step 1 pieces 9/16” x 7/16 x 1 7/8"

Deck Pillars 4 pieces 9/32 x 9/32 x 3 3/32”

Elm Tree Pumps 1;32

Pump Casing 2 pieces 1/2” diameter x 6 5/8”

Discharge ports 4 pieces 1/8” diameter x 1/4”

Break Handle 2 pieces 3/32 x 1/16 x 2 1/4”

Connecting Rod 2 pieces 20-gauge brass wire 4 1/2"

Chain Pumps 1:32

Cistern 1 piece 2 7/16 x 15/16 x 3/4"

Wheel Cover 2 pieces 3/4” diameter x 1/2”

Pump Dale 2 pieces 1/4 x 1/4 x 3 5/8”

End Piece 2 pieces 11/16 x 3/32 x 1 1/4”

Supply and

Return Case 4 pieces 1/4 x 1/4 x 1 1/2” (Trim to fit)

Crank Handle 2 pieces 18-gauge brass wire 9 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 ¼ x 1/8 x 6”

Pillars – trim to fit 1 piece 1/8 x1/8 x 12”

Mast 5/16” diameter x 6”

Lower Deck Spirketting 8 pieces ¼ 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 x3/16 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 x3/16 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 x3/16 x 18”

Mast - see drawing for dims. 1/2” diameter x 9” dowel rod

Bitts 5/32 x 5/32 x 16”

6 Pounder Canons ½” x ½” x 2 ½” each (2-Gun or 4-Gun option)

Carriages (mat. for two) sides 1”x6”x1/16”, axles1”x3”x1/16”, transom 1”x2”x1/8”, quoin 1//2”x3’x1/8”

Elm Tree Pumps 3/16” Diameter x 6” dowel rod. 1/8” x1” 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

Bitts ¼ x 1/4 x 24”

Carriages (mat. for two) sides 1”x6”x1/16”, axles1”x3”x1/16”, transom 1”x 2”x 1/8”, quoin 1/2” x 3” x 1/8”

Elm Tree Pumps 1/4” Diameter x 8” dowel rod. 3/16 x1” dowel rod, 1/8” x 1/32” x 14” wood strip, 20 gauge brass wire.

Part 6

Rails 1:48

Planksheer Rails 2 pieces 1/4 x 3/16 x 6” trim to fit

Waist Rails 2 pieces 1/4 x 1/8 x 6” trim to fit

Gun Port Liner I piece 1/4 x 1/16 x 6”

Ladder 1 piece 3/16 x 1/16 x 4” runners

 1 piece 3/16 x 1/32 x 6” steps

Cleats 1 piece 1/16 x 1/32 x 2”

 1 piece 1/16 x 1/16 x 2”

Exterior Planking 2 pieces 1 3/4" x 1/16” x 6”

Main Channels 2 pieces 3/8” x 1/16” x 6”

 1 piece 1/16” x 1/32” x 6”

Deadeyes 10 pieces 3/16” diameter

 2 pieces 5/32” diameter

Wales 2 pieces 1 1/4 x 3/32 x 6”

Sweep Port Covers 1 piece 3/16 x 1/16 x 5”

Pump Dale Outlets 2 pieces 1/8” diameter x 1/2" long brass tubing

Ballast Port Covers 2 pieces 5/16 x 5/16 x 1/16”

Fenders 1 piece 2 x 2 x1/8”

Steeps 1 piece 3/16 x 1/64 x 14”

 1 piece 1/8 x 1/32 x 14”

Display Stand 1 piece 7 x ½ x 5 3/16” Base

 2 pieces 1 3/4 x 1 ½ x 3/8” End Supports

4 pieces 1/8” thick felt pads see drawing

Rails 1:32

Planksheer Rails 2 pieces 3/8 x 9/32 x 9” trim to fit

Waist Rails 2 pieces 3/8 x 3/16 x 9” trim to fit

Gun Port Liner I piece 3/16 x 1/16 x 9”

Ladder 1 piece 3/16 x 1/16 x 4” runners

 1 piece 3/16 x 1/32 x 6” steps

Cleats 1 piece 1/16 x 1/32 x 2”

 1 piece 1/16 x 1/16 x 2”

Exterior Planking 2 pieces 4 1/2" x 3/32” x 9”

Main Channels 2 pieces 9/16” x 3/32” x 9”

 1 piece 3/32” x 1/16” x 9”

Deadeyes 10 pieces 1/4” diameter

 2 pieces 3/16” diameter

Wales 2 pieces 2 7/8 x 5/32 x 9”

Sweep Port Covers 1 piece 1/4 x 1/16 x 8”

Pump Dale Outlets 2 pieces 1/8” diameter x 1/2" long brass tubing

Ballast Port Covers 2 pieces 1/2 x 1/2 x 1/16”

Fenders 1 piece 3 x 3 x1/8”

Steeps 1 piece 3/16 x 1/64 x 21”

 1 piece 1/8 x 1/32 x 21”

Display Stand 1 piece 11 x 3/4 x 9” Base

 2 pieces 1 3/4 x 1 3/4 x 1/2” End Supports

4 pieces 1/8” thick felt pads see drawing