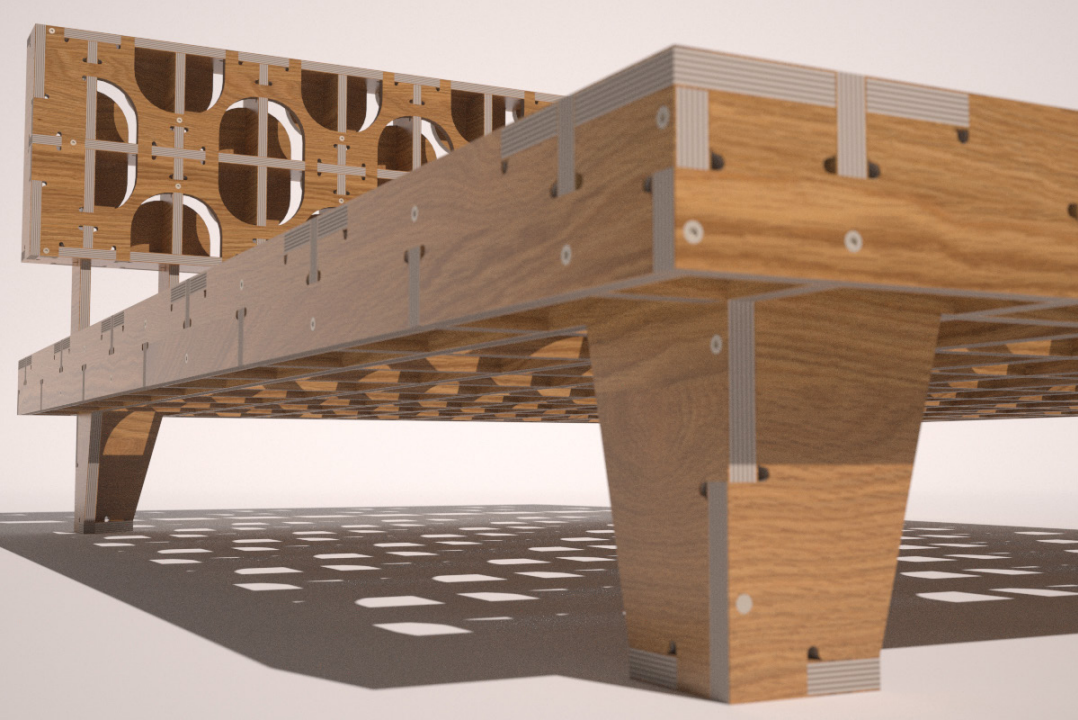
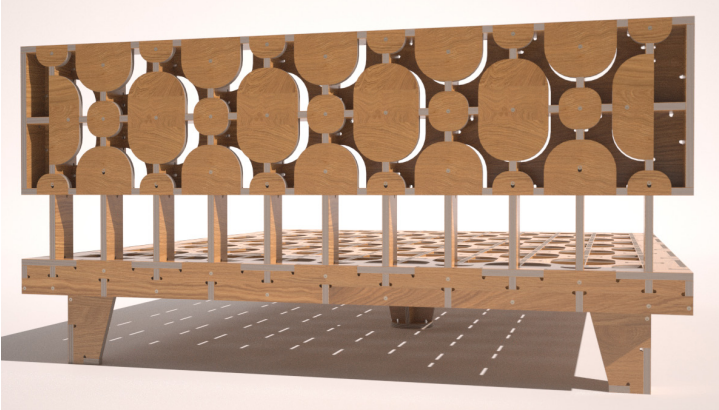


MATERIALS & FINISHES

AtFAB pieces can be made out of any sheet material that your CNC machine can cut. Materials can be pre-finished, so finished pieces come directly off the machine ready for assembly. Materials can also be kept raw until after cutting, so you can finish parts individually or wait until the entire furniture object is assembled to finish it. See atfab.co for examples.



AtFAB

Silver Lining Bed *Beta**

**The Silver Lining Bed is in beta testing. A version of this Bed was successfully prototyped at full scale multiple times, and function as intended. The cut files for all bed sizes included in this beta package have been tested at partial scale to ensure construction and fit, but have not been tested at full scale. To the best of our knowledge, each size functions and performs as designed. We welcome your feedback, insights and questions as you make your version, and thank you for participating in our R&D process.*

The Silver Lining Bed is a platform bed. Its intricate woven structure forms a strong torsion box, which makes a shallow platform appear to float. This is an updated version of our original bed design, here we respond to popular demand by extending the structure's pattern onto the headboard. We've set in the legs and float the headboard to enhance the bed's lightness.

The Silver Lining Bed download file comes in a choice of sizes. Each file download

includes toolpaths for all bed parts in three sizes (queen, king & euro). The designs have been finalized and prototyped in our studio, and are now ready for beta testing. We will offer other sizes, as the files are ready to go.

The beds can also be accessorized with a 3D printed Peg & Foot Kit, found at www.thingiverse.com/AtFAB.

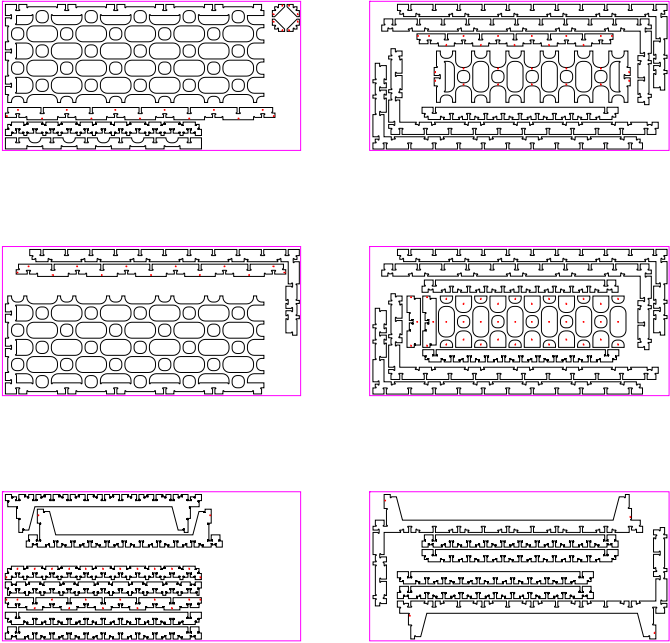
The Silver Lining Bed provide a 3" space between the mattress and platform edge. Please see the dimensions below for each size:

BED DIMENSIONS: QUEEN		
total length	2200	87"
total width	1600	63"
total height	915	36"
platform length	2080	82"
platform width	1600	63"
platform height	395	15.5"
sheets req'd	6	
fasteners req'd	132	

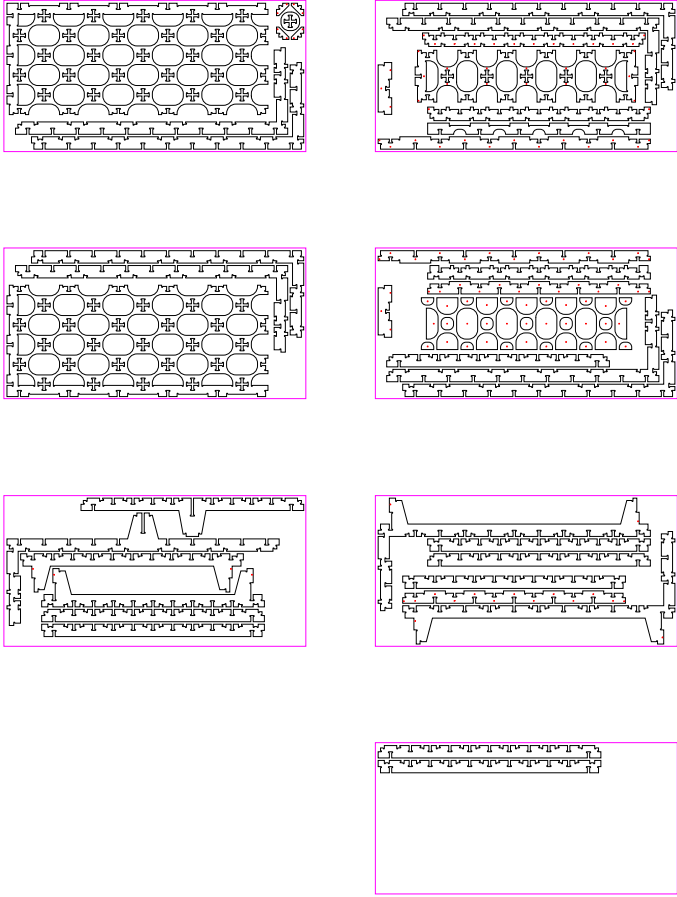
BED DIMENSIONS: EURO		
total length	2200	87"
total width	1800	72"
total height	915	36"
platform length	2080	82"
platform width	1800	72"
platform height	395	15.5"
sheets req'd	7	
fasteners req'd	138	

BED DIMENSIONS: KING		
total length	2200	87"
total width	2000	79"
total height	915	36"
platform length	2080	82"
platform width	2000	79"
platform height	395	15.5"
sheets req'd	7	
fasteners req'd	138	

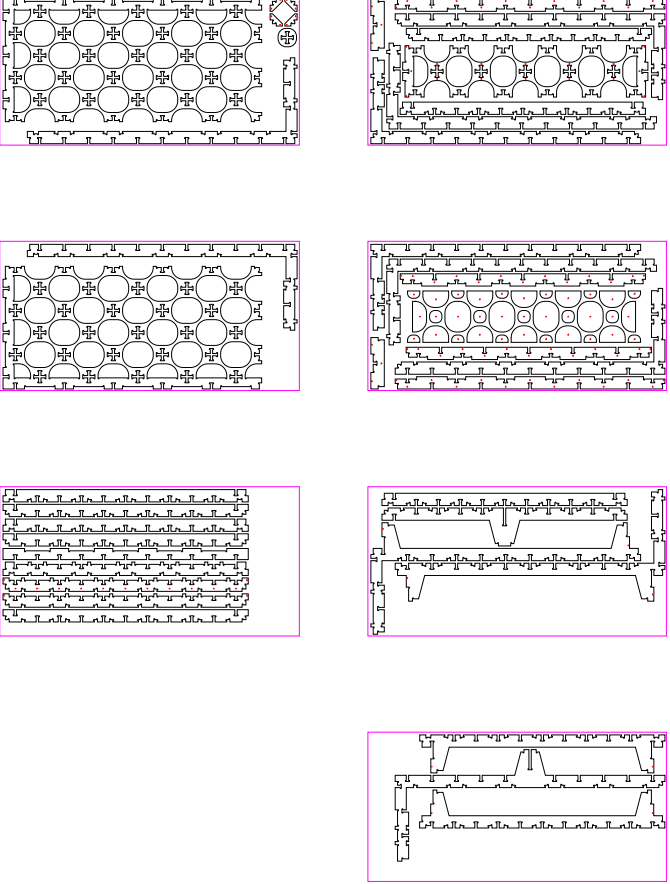
KEY	
Black	Inside/Outside Cuts
Magenta	Plywood Edge
Red	Holes (Optional)



QUEEN BED	
6	Sheets
132	Fasteners



EURO BED	
7	Sheets
138	Fasteners



KING BED	
7	Sheets
138	Fasteners

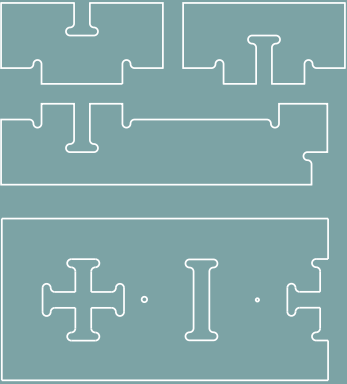
CUT FILES

A single cut file includes all sheets required for one bed. Depending upon size, each file contains either 6-7 sheets. All Bed files have straight inside/outside cuts and drilled holes. You will find these separated by layers in the DXF file, and noted above. CNC cutting on the appropriate side of the line is critical to ensuring that tabs and slots fit together.

MATERIALS

Cut files provided are scaled for 18.5mm (¾") Hardwood Veneer Plywood. Consult sheet material supplier and manufacturer instructions for finishing material faces and edges. If sealing, oiling and waxing, or painting your Bed, also consult manufacturer instructions. CNC machines require their own supplies, consult your fabricator to find out recommended bit types and sizes for CNC routers, masking to protect your

materials, and anything else the machines need. We recommend purchasing a 20% material surplus to use for testing and calibration, which is required for ensuring a good fit between the Bed parts.



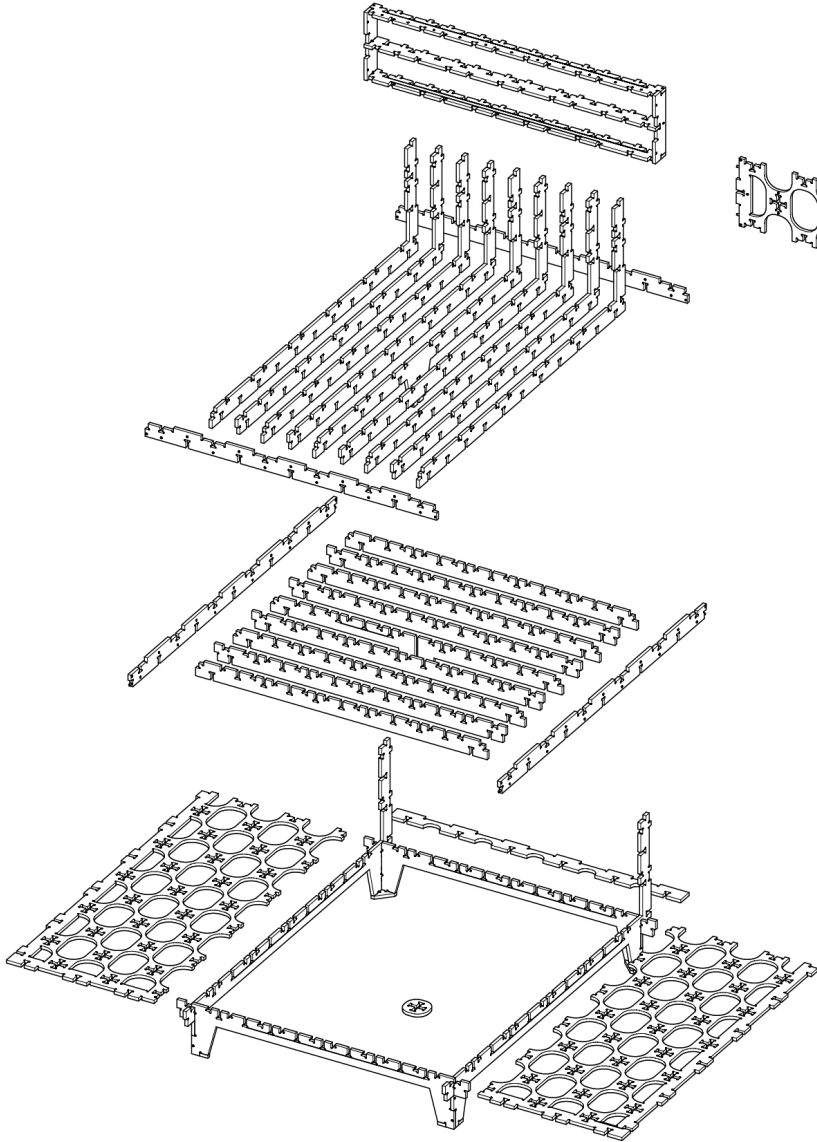
AtFAB

THE TEST PIECE

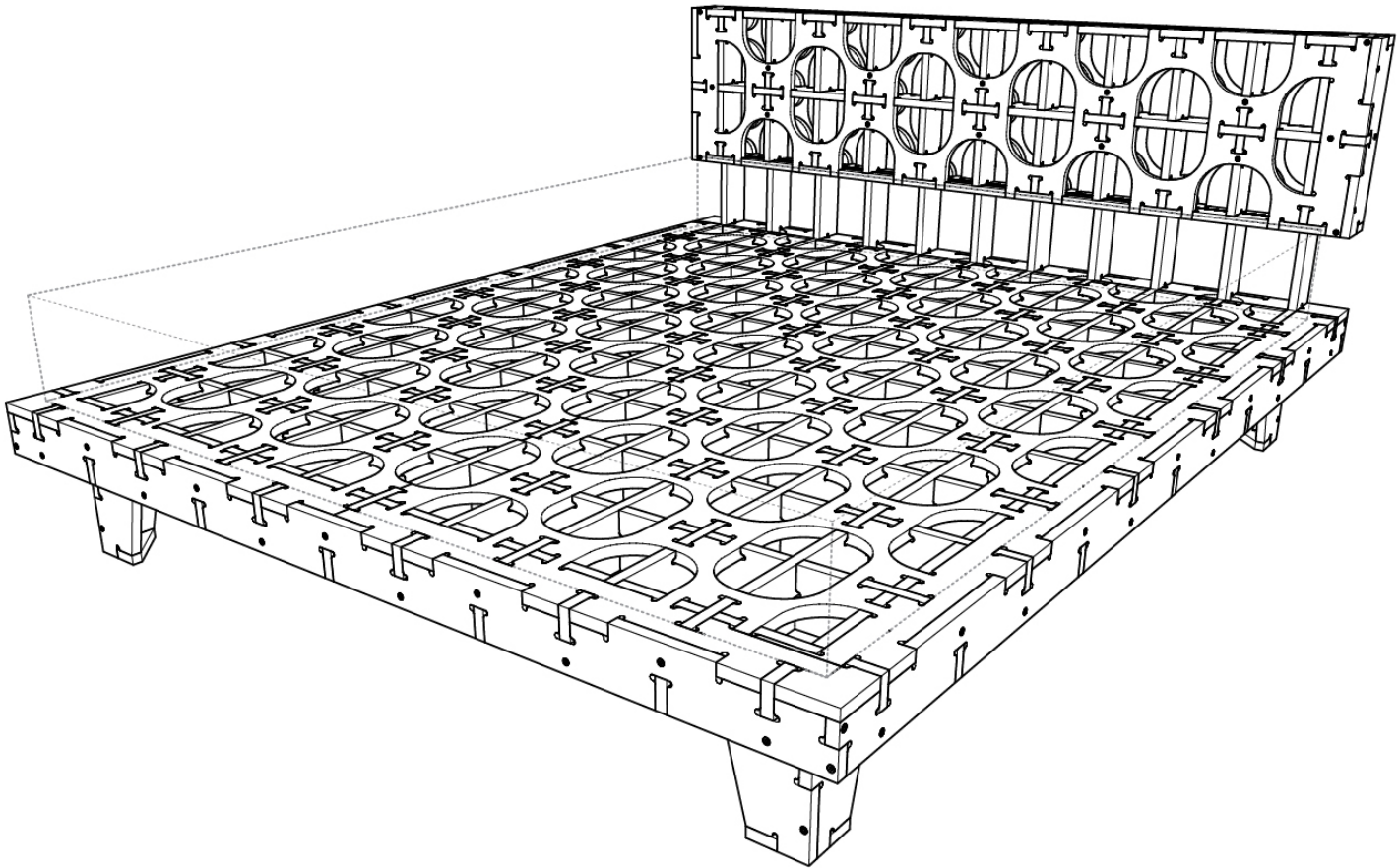
A good fit between furniture parts is essential for a sturdy, functioning Bed. Since nominal material thicknesses can vary from product to product, some advanced preparation is necessary. The small Test Piece (AtFAB_test.dxf) provided in the download enables you to calibrate your machine settings exactly to your material thickness, prior to cutting out an entire furniture object. The Test Piece has examples of all joint conditions

that you'll encounter in every AtFAB furniture object. Cut as many iterations of the Test Piece as you require, until all of its parts can be put together easily but still fit snugly enough to stay together. Multiple settings can be evaluated by "bracketing" tool-path offsets, cutting speeds, bit sizes, and any other features that have an impact on how much material is removed as the CNC tool cuts. It is possible to make very minor adjustments within

the CAD file, if overall furniture dimensions aren't critical. This is best achieved by scaling the entire file by 1-3%, so that slots are closer to the material thickness. If you're planning to finish your Bed after cutting, it's important to finish the Test Piece as you would your Bed to ensure the joints fit after sanding and coating. Once you're pleased with the fit, save your CNC settings and start cutting a Silver Lining Bed!



ASSEMBLY SUPPLIES	
Fasteners	#8 screws or, 1.5" pre-cut pegs or glue/adhesive
Painters Tape	for assembling furniture pieces prior to fastening
Drill with bit sized for fasteners	for drilling holes for pegs or screws
Rubber Mallet	optional for tighter fitting joints
Blanket	for protecting pieces & worksurface during furniture assembly



PREPARATION

AtFAB designs use slots, tabs and notches to make objects easy to assemble with a couple of people.

Moving quilts to protect the pieces and your worksurface are handy.

Blue painters tape is especially helpful in holding pieces together as you assemble your object.

If you've chosen a tighter fit between joints, a rubber mallet/persuader can be helpful in putting tight

fitting pieces together.

For increased durability, we recommend securing joints with dowels. The cut files provide these dowel holes for the CNC to pre-drill into the face of the furniture pieces.

If securing joints with dowels, you'll need a power drill with a bit sized to match your pre-drilled holes and hardwood dowels. Pre cut dowels into 2" lengths.

The CNC can also be set to drill pilot holes for counter-sunk mechanical fasteners. If gluing, omit fastening

holes from CAD files.

ACCESSORIZE

3D print Feet and a set of pegs with a MakerBot or similar 3D printer. Find these files and files for other printable AtFAB accessories at www.thingiverse.com/atfab

ASSEMBLE

The sequence of assembly works best with two people. Secure pieces temporarily together with painters tape. Ensure you keep "right sides" facing outward and upward.

Please Note: The Silver Lining Bed is still in 'beta' because we have yet to communicated a clear, specific method and sequence to assemble the parts. We welcome your feedback and insights on this part of the process.

FASTEN

Once you have all pieces secured together with tape, you can begin fastening.

Start fastening front, side and back legs first, then seat and seat back. Fasten feet last. Turn chair to optimise straight drilling.

If using pegs, drill through pre-drilled holes and 1 ¼" into edge of opposing part; insert pegs.

If using hardware, screw through pre-drilled pilot hole and into opposing part.

If gluing, apply a minimal amount of adhesive to interior face of tabs and slots, which require reinforcement. Joints that hold together on their own don't need adhesive. Follow adhesive instructions for gluing, clamping and drying time.



TERMS & CONDITIONS

All AtFAB Information (defined as designs, images, technical drawings, digital cut files, instructions and other supporting material) is prepared, prototyped and tested for a successful outcome. While this Information is developed with every intention of enabling you to make a finished furniture object that brings maximum utility and enjoyment, the use of this information must be combined with your own due diligence.

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