KERFMOOR · START HERE

Assembly & Cut Guide

24 finger-joint boxes (each at 3 mm and 6 mm, four kerf settings), 12 layered shadow boxes and 12 ornaments, as SVG, DXF and PDF, plus Cricut cardstock versions of the layered designs and ornaments. All dimensions are in millimetres and every file is drawn at 1:1.

1. Find your kerf (5 minutes, once per material)

1. Cut **Boxes/00-Start here - kerf fit test/kerf-fit-test-3mm** (or 6mm) from the same sheet you will use.
2. Each pair is labelled by position, left to right: kerf 0.00, 0.10, 0.15, 0.20 mm (3 mm) or 0.00, 0.15, 0.20, 0.25 mm (6 mm).
3. Push each pair together. Pick the pair that slides together firmly by hand without forcing. Use that kerf folder for every box.

> **Measure your material.** "3 mm" plywood is often 2.7–3.2 mm. The joints are drawn for exactly 3.0 mm and 6.0 mm sheet; if yours is thinner the fingers stand proud by the difference (sand flush), and if thicker they sit slightly recessed. Kerf 0.00 files are the nominal outline, for software that applies its own kerf offset (for example LightBurn's kerf offset).

2. Laser settings

Cut lines are 0.1 mm red (#FF0000) hairlines with no fill. In LightBurn, xTool Creative Space or the Glowforge app, import the SVG or DXF at 100%; every sheet fits 290 x 270 mm. Set the red layer to Cut. Power and speed depend on your machine and material: run your usual cut test first.

3. What the checks cover

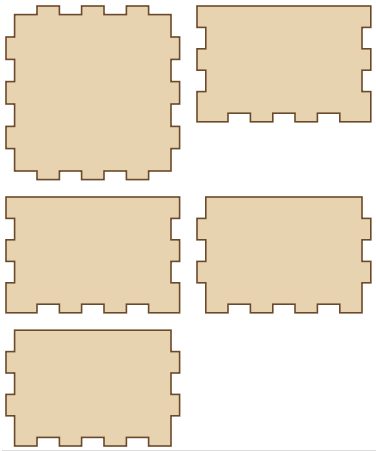
Every outline in this pack is generated by code and checked by code before release: every path is closed, no outline crosses itself, every panel is the stated size, every finger meets a matching slot along every joint, kerf files shrink back to the nominal outline when the kerf is removed, and layered parts are one connected piece with no slivers under 1.5 mm. The designs are **not cut-tested on every machine**: cut the fit test, and try a box in cardboard first.

4. Cricut (cardstock)

Shadow boxes: **Cricut cardstock (7 x 7 in)** holds one SVG with every layer in its own colour (back first) and one SVG per layer. In Design Space choose Upload → Upload Image, pick the SVG, then check the size reads 7 x 7 in before cutting. Stack layers with 3D foam squares. Ornaments come at 3 in.

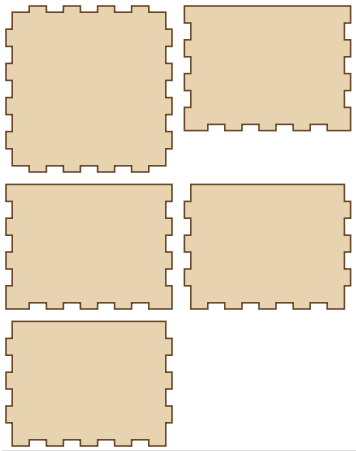
Assembly: dry-fit the four walls around the base (front and back carry the corner fingers), then glue with wood glue and clamp or tape for 20 minutes. Lift-Lid: glue the rim centred under the lid. Coin Slot box: glue everything except the base if you want to open it later (friction fit).

KB01 · Open Tray



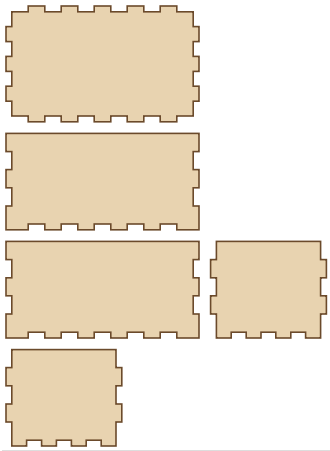
Outer size	60 x 60 x 40 mm
Inside, 3 mm	54 x 54 x 37 mm
Inside, 6 mm	48 x 48 x 34 mm
Parts	5 (base, 4 walls)
Sheets	1 (3 mm) · 1 (6 mm)

KB02 · Open Tray



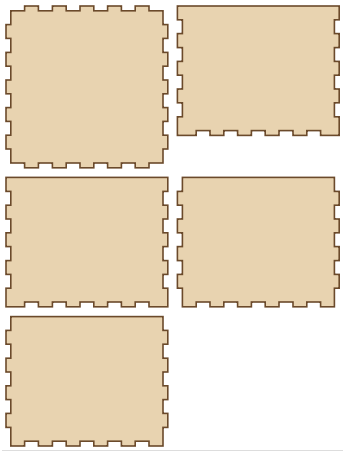
Outer size	80 x 80 x 60 mm
Inside, 3 mm	74 x 74 x 57 mm
Inside, 6 mm	68 x 68 x 54 mm
Parts	5 (base, 4 walls)
Sheets	1 (3 mm) · 1 (6 mm)

KB03 · Open Tray



Outer size	100 x 60 x 50 mm
Inside, 3 mm	94 x 54 x 47 mm
Inside, 6 mm	88 x 48 x 44 mm
Parts	5 (base, 4 walls)
Sheets	1 (3 mm) · 1 (6 mm)

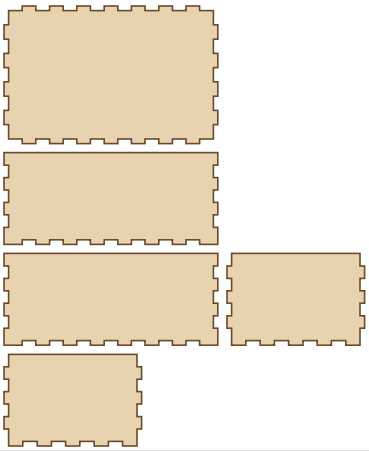
KB04 · Open Tray



Outer size	100 x 100 x 80 mm
Inside, 3 mm	94 x 94 x 77 mm
Inside, 6 mm	88 x 88 x 74 mm
Parts	5 (base, 4 walls)
Sheets	2 (3 mm) · 2 (6 mm)

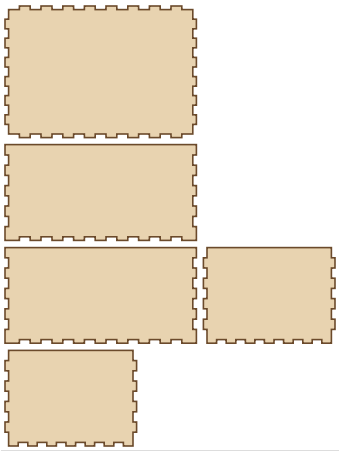
Assembly: dry-fit the four walls around the base (front and back carry the corner fingers), then glue with wood glue and clamp or tape for 20 minutes. Lift-Lid: glue the rim centred under the lid. Coin Slot box: glue everything except the base if you want to open it later (friction fit).

KB05 · Open Tray



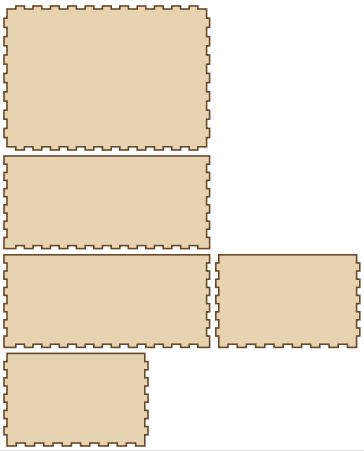
Outer size	140 x 90 x 60 mm
Inside, 3 mm	134 x 84 x 57 mm
Inside, 6 mm	128 x 78 x 54 mm
Parts	5 (base, 4 walls)
Sheets	2 (3 mm) · 2 (6 mm)

KB06 · Open Tray



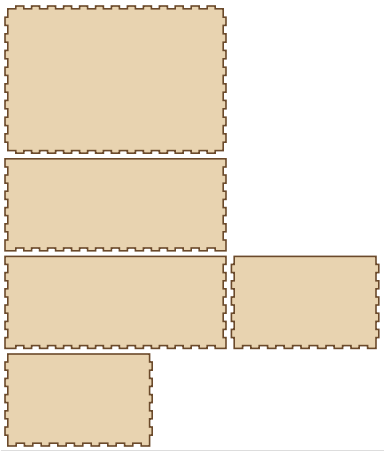
Outer size	160 x 110 x 80 mm
Inside, 3 mm	154 x 104 x 77 mm
Inside, 6 mm	148 x 98 x 74 mm
Parts	5 (base, 4 walls)
Sheets	2 (3 mm) · 2 (6 mm)

KB07 · Open Tray



Outer size	200 x 140 x 90 mm
Inside, 3 mm	194 x 134 x 87 mm
Inside, 6 mm	188 x 128 x 84 mm
Parts	5 (base, 4 walls)
Sheets	3 (3 mm) · 3 (6 mm)

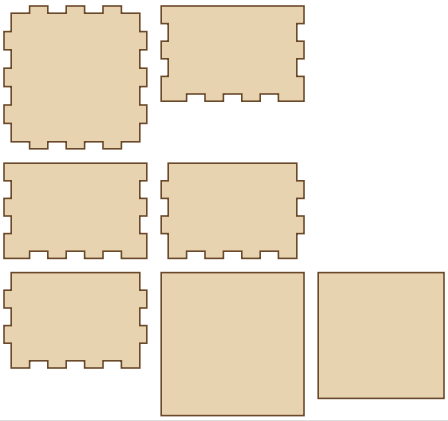
KB08 · Open Tray



Outer size	240 x 160 x 100 mm
Inside, 3 mm	234 x 154 x 97 mm
Inside, 6 mm	228 x 148 x 94 mm
Parts	5 (base, 4 walls)
Sheets	3 (3 mm) · 3 (6 mm)

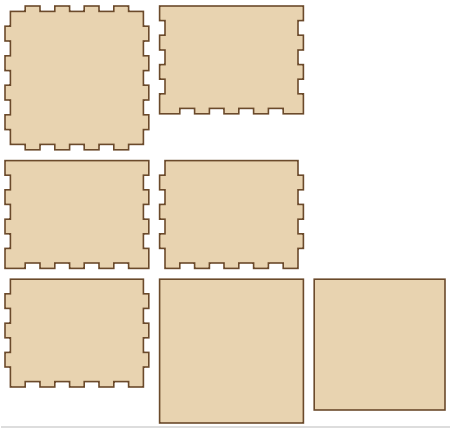
Assembly: dry-fit the four walls around the base (front and back carry the corner fingers), then glue with wood glue and clamp or tape for 20 minutes. Lift-Lid: glue the rim centred under the lid. Coin Slot box: glue everything except the base if you want to open it later (friction fit).

KB09 · Lift-Lid Box



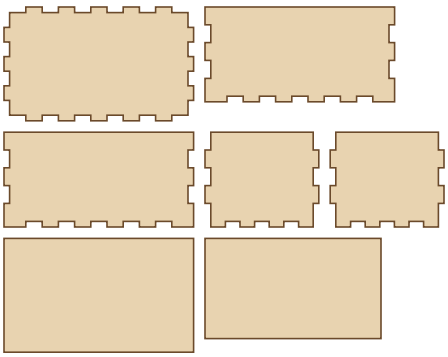
Outer size	60 x 60 x 40 mm
Inside, 3 mm	54 x 54 x 37 mm
Inside, 6 mm	48 x 48 x 34 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	1 (3 mm) · 1 (6 mm)

KB10 · Lift-Lid Box



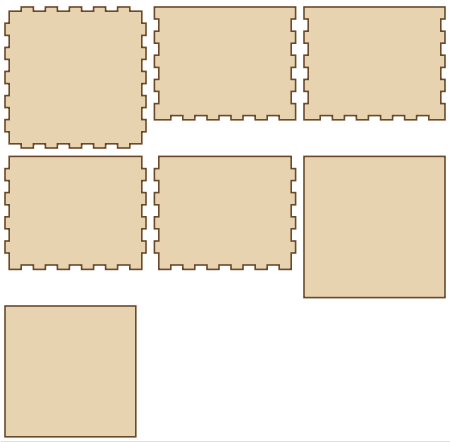
Outer size	80 x 80 x 60 mm
Inside, 3 mm	74 x 74 x 57 mm
Inside, 6 mm	68 x 68 x 54 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	1 (3 mm) · 1 (6 mm)

KB11 · Lift-Lid Box



Outer size	100 x 60 x 50 mm
Inside, 3 mm	94 x 54 x 47 mm
Inside, 6 mm	88 x 48 x 44 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	1 (3 mm) · 1 (6 mm)

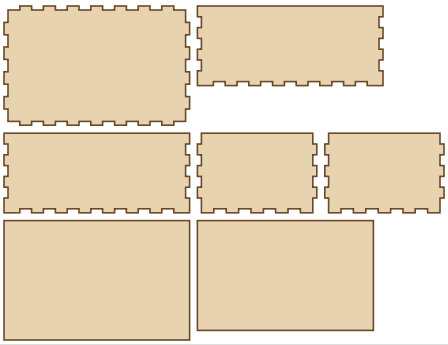
KB12 · Lift-Lid Box



Outer size	100 x 100 x 80 mm
Inside, 3 mm	94 x 94 x 77 mm
Inside, 6 mm	88 x 88 x 74 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	2 (3 mm) · 2 (6 mm)

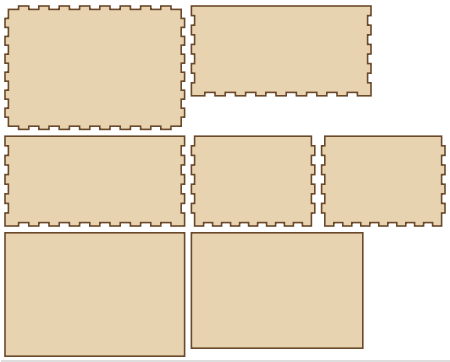
Assembly: dry-fit the four walls around the base (front and back carry the corner fingers), then glue with wood glue and clamp or tape for 20 minutes. Lift-Lid: glue the rim centred under the lid. Coin Slot box: glue everything except the base if you want to open it later (friction fit).

KB13 · Lift-Lid Box



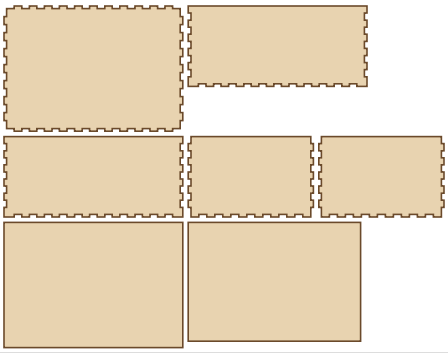
Outer size	140 x 90 x 60 mm
Inside, 3 mm	134 x 84 x 57 mm
Inside, 6 mm	128 x 78 x 54 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	2 (3 mm) · 2 (6 mm)

KB14 · Lift-Lid Box



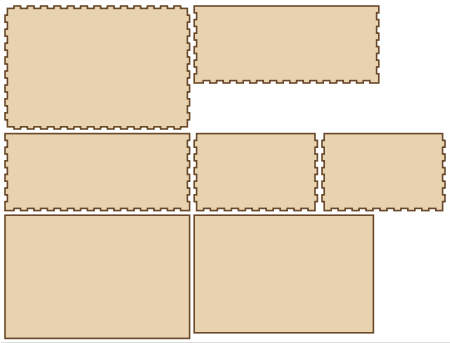
Outer size	160 x 110 x 80 mm
Inside, 3 mm	154 x 104 x 77 mm
Inside, 6 mm	148 x 98 x 74 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	3 (3 mm) · 3 (6 mm)

KB15 · Lift-Lid Box



Outer size	200 x 140 x 90 mm
Inside, 3 mm	194 x 134 x 87 mm
Inside, 6 mm	188 x 128 x 84 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	5 (3 mm) · 5 (6 mm)

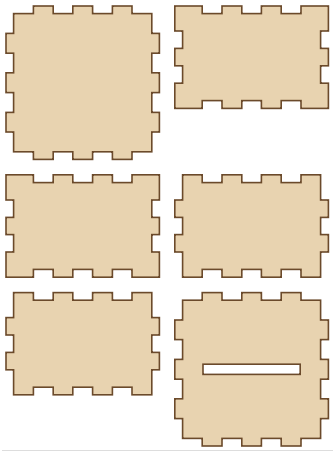
KB16 · Lift-Lid Box



Outer size	240 x 160 x 100 mm
Inside, 3 mm	234 x 154 x 97 mm
Inside, 6 mm	228 x 148 x 94 mm
Parts	7 (base, 4 walls, lid + rim)
Sheets	5 (3 mm) · 5 (6 mm)

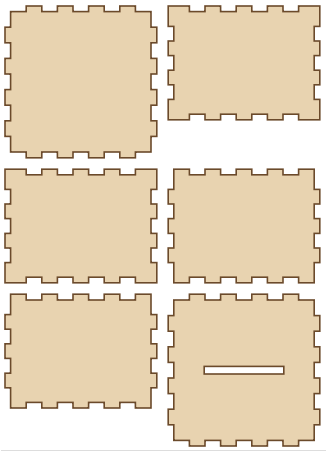
Assembly: dry-fit the four walls around the base (front and back carry the corner fingers), then glue with wood glue and clamp or tape for 20 minutes. Lift-Lid: glue the rim centred under the lid. Coin Slot box: glue everything except the base if you want to open it later (friction fit).

KB17 · Closed Box with Coin Slot



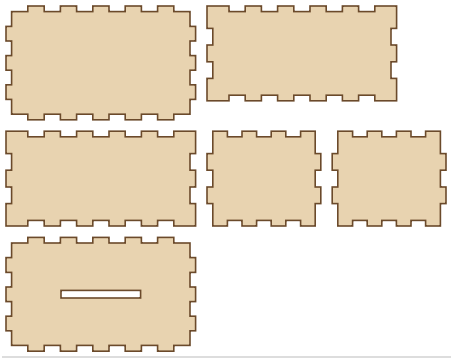
Outer size	60 x 60 x 40 mm
Inside, 3 mm	54 x 54 x 34 mm
Inside, 6 mm	48 x 48 x 28 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	1 (3 mm) · 1 (6 mm)

KB18 · Closed Box with Coin Slot



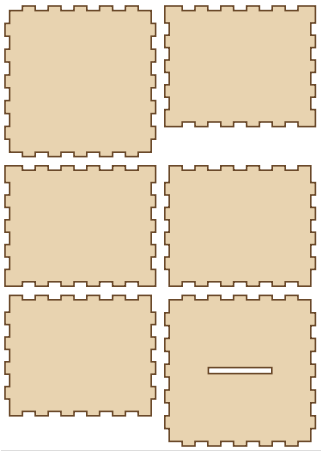
Outer size	80 x 80 x 60 mm
Inside, 3 mm	74 x 74 x 54 mm
Inside, 6 mm	68 x 68 x 48 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	1 (3 mm) · 1 (6 mm)

KB19 · Closed Box with Coin Slot



Outer size	100 x 60 x 50 mm
Inside, 3 mm	94 x 54 x 44 mm
Inside, 6 mm	88 x 48 x 38 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	1 (3 mm) · 1 (6 mm)

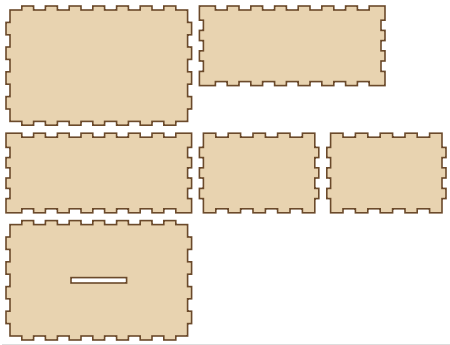
KB20 · Closed Box with Coin Slot



Outer size	100 x 100 x 80 mm
Inside, 3 mm	94 x 94 x 74 mm
Inside, 6 mm	88 x 88 x 68 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	2 (3 mm) · 2 (6 mm)

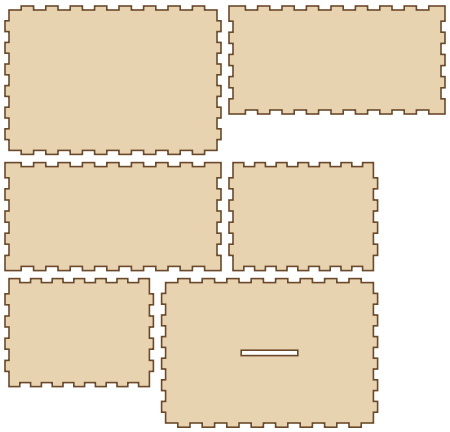
Assembly: dry-fit the four walls around the base (front and back carry the corner fingers), then glue with wood glue and clamp or tape for 20 minutes. Lift-Lid: glue the rim centred under the lid. Coin Slot box: glue everything except the base if you want to open it later (friction fit).

KB21 · Closed Box with Coin Slot



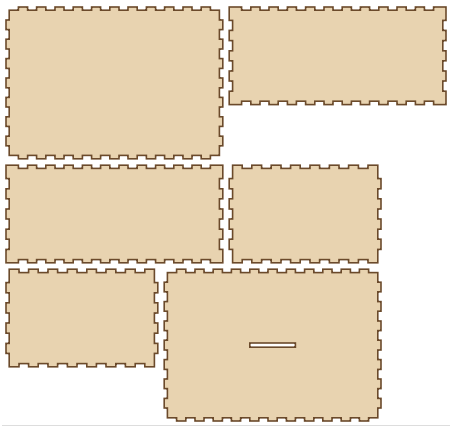
Outer size	140 x 90 x 60 mm
Inside, 3 mm	134 x 84 x 54 mm
Inside, 6 mm	128 x 78 x 48 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	2 (3 mm) · 2 (6 mm)

KB22 · Closed Box with Coin Slot



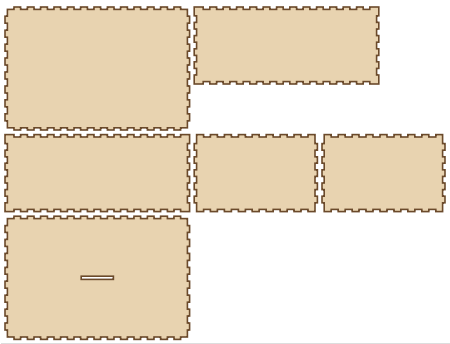
Outer size	160 x 110 x 80 mm
Inside, 3 mm	154 x 104 x 74 mm
Inside, 6 mm	148 x 98 x 68 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	2 (3 mm) · 2 (6 mm)

KB23 · Closed Box with Coin Slot



Outer size	200 x 140 x 90 mm
Inside, 3 mm	194 x 134 x 84 mm
Inside, 6 mm	188 x 128 x 78 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	4 (3 mm) · 4 (6 mm)

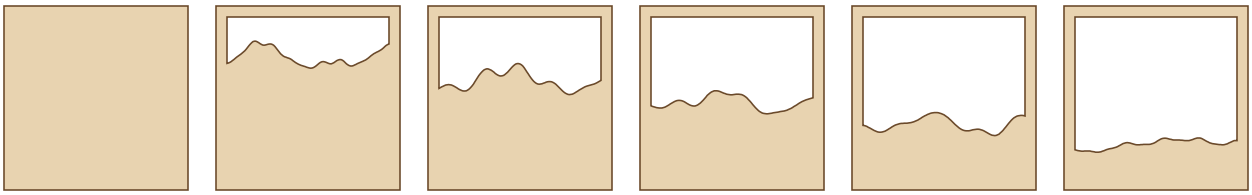
KB24 · Closed Box with Coin Slot



Outer size	240 x 160 x 100 mm
Inside, 3 mm	234 x 154 x 94 mm
Inside, 6 mm	228 x 148 x 88 mm
Parts	6 (base, 4 walls, top with coin slot)
Sheets	4 (3 mm) · 4 (6 mm)

SB01-mountain-ridges · Mountain Ridges

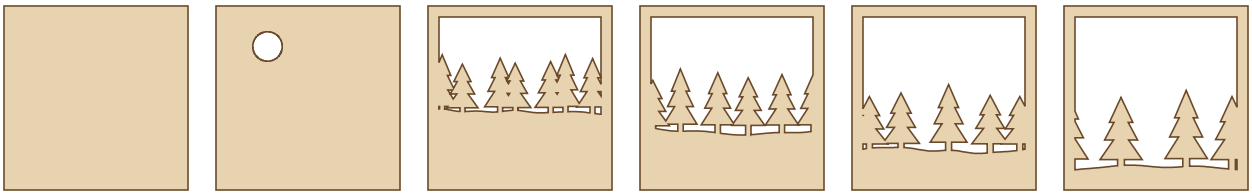
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB02-pine-forest · Pine Forest

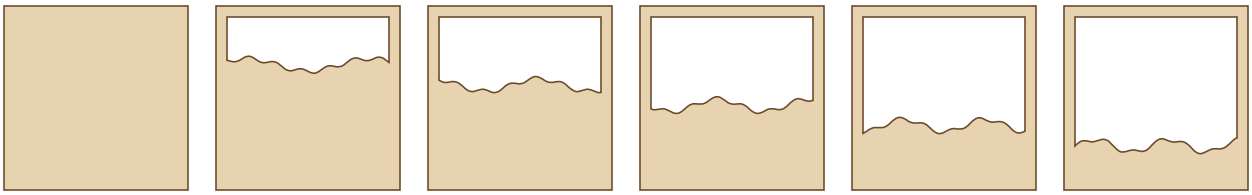
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB03-ocean-waves · Ocean Waves

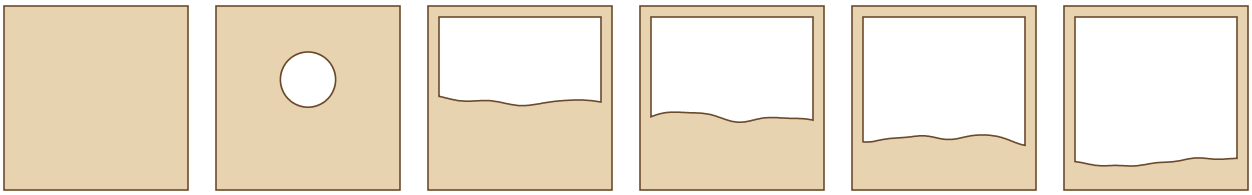
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB04-desert-dunes · Desert Sun & Dunes

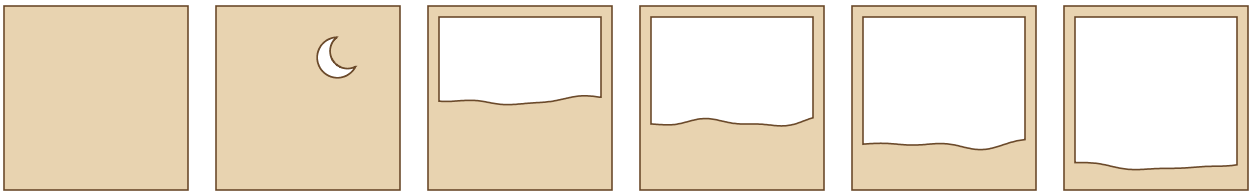
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB05-moon-hills · Crescent Moon Hills

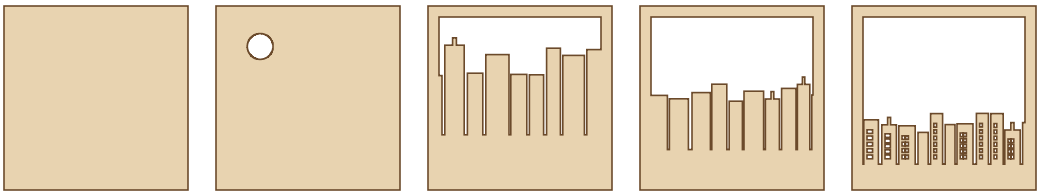
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB06-city-skyline · City Skyline

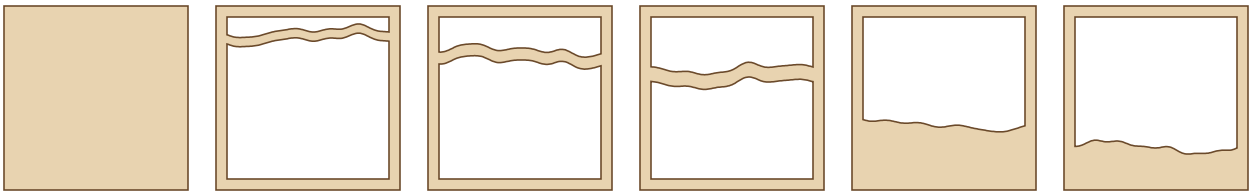
5 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 5 (front) with a spacer frame between each pair (cut 4).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5

SB07-aurora-sky · Aurora Sky

6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

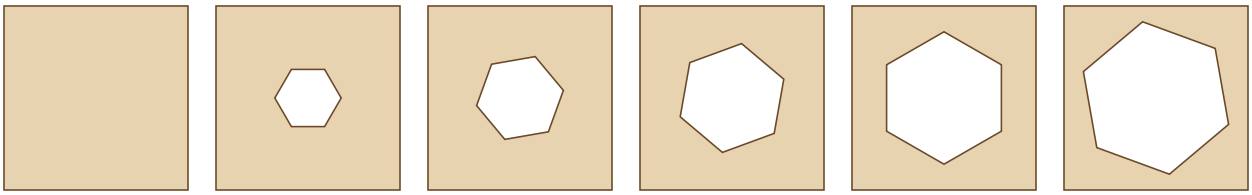
SB08-fern-garden · Fern Garden

5 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 5 (front) with a spacer frame between each pair (cut 4).

layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5

SB09-hex-tunnel · Hexagon Tunnel

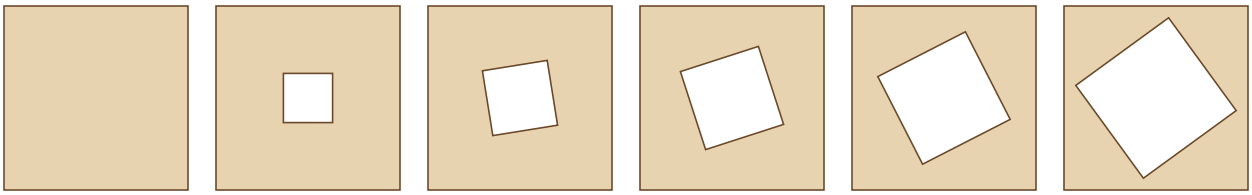
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB10-diamond-tunnel · Diamond Tunnel

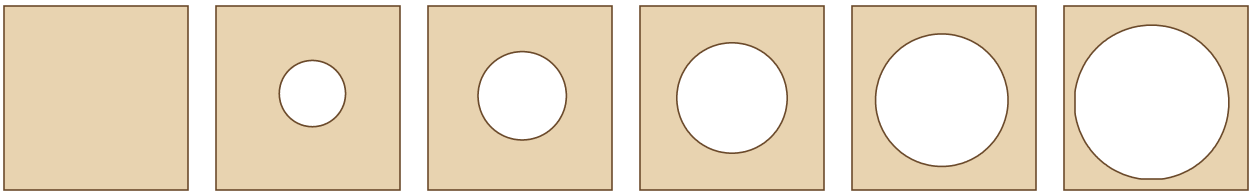
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB11-circle-ripple · Circle Ripple

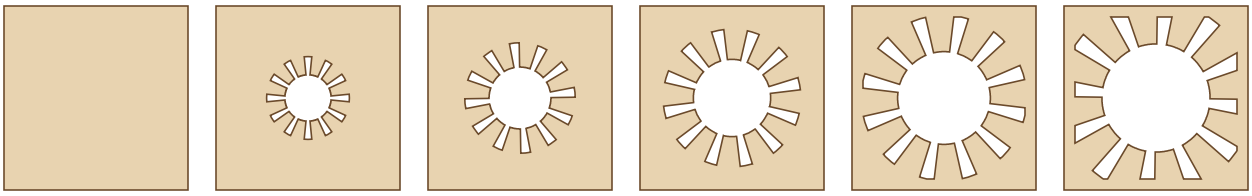
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

SB12-sunburst · Sunburst

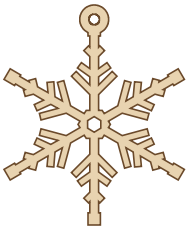
6 layers at 200 x 200 mm (3 mm material). Stack from layer 1 (back) to layer 6 (front) with a spacer frame between each pair (cut 5).



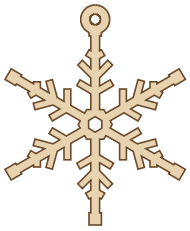
layer 1 (back) | layer 2 | layer 3 | layer 4 | layer 5 | layer 6

12 ornaments

80 mm tall in 3 mm material (single files, or 2 ready sheets), and 3 in Cricut cardstock versions. Each has a 4.4 mm hanging hole for ribbon or a jump ring.



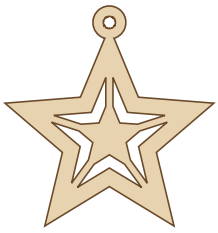
OR01-snowflake-a Snowflake A



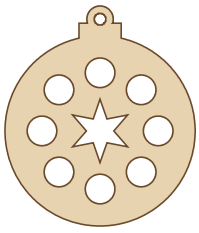
OR02-snowflake-b Snowflake B

OR03-snowflake-c Snowflake C

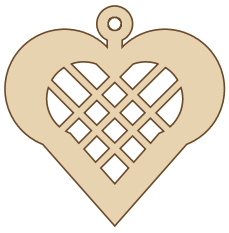
OR04-snowflake-d Snowflake D



OR05-star Double Star



OR06-bauble Lace Bauble

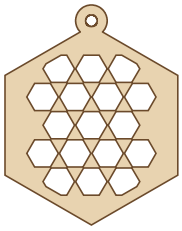


OR07-heart Lattice Heart

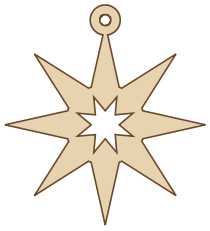
OR08-tree Starry Tree

OR09-moon Crescent Moon

OR10-leaf Veined Leaf



OR11-hex-lattice Honeycomb Hexagon



OR12-star-burst Snow Star

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