USER GUIDE · PATTERN DRAFT

Pattern Draft — User Guide

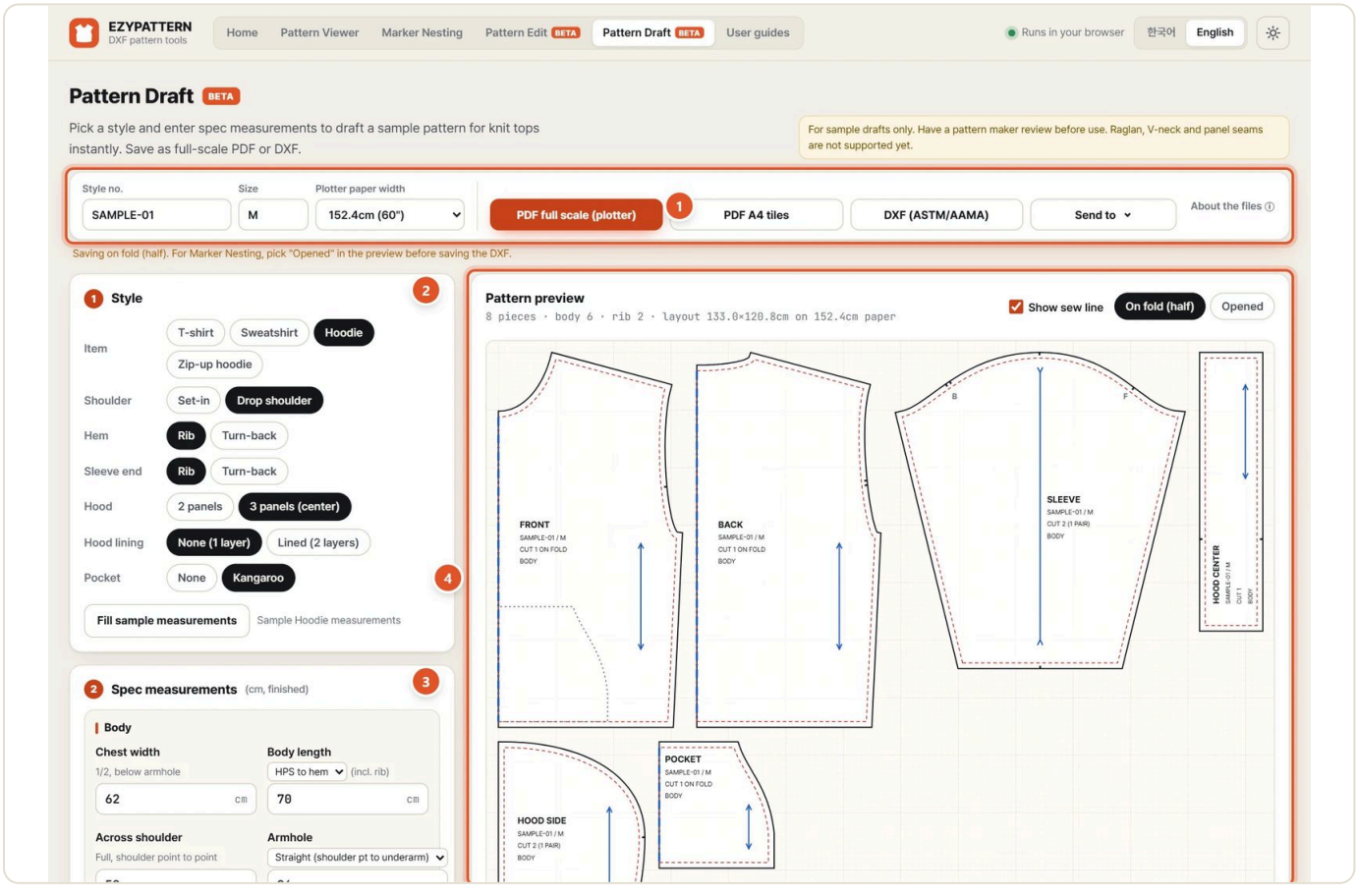
A free web tool (BETA): pick a style, enter the spec measurements (finished, in cm) and it drafts a sample pattern for knit T-shirts, sweatshirts, hoodies and zip-up hoodies on the spot. Save it as a full-scale PDF or a DXF, or open it straight in Pattern Viewer, Pattern Edit or Marker Nesting.

Before you start

- The spec measurements of the garment — **finished measurements (cm)** such as chest width, body length, shoulder width, armhole and sleeve length. If you have none, start with **Fill sample measurements** and change them one by one.
- A PC with an up-to-date browser such as Chrome or Edge. If you will plot it, know your paper width (91.4 · 111.8 · 152.4 · 183 cm).
- This tool makes **sample drafts only**. Have a pattern maker review the result. Raglan, V-neck and panel seams are not supported yet.

01 Screen layout

Type on the left; the pattern is drawn immediately on the right.



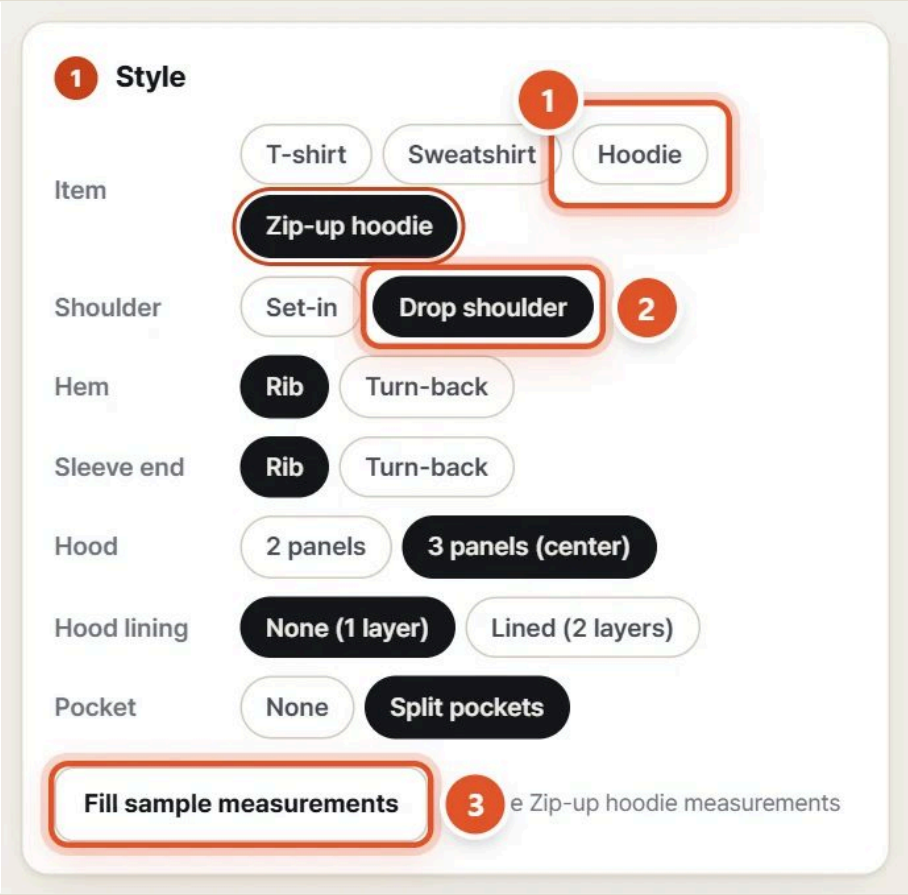
Pattern Draft with the sample hoodie measurements drawn

1. **Top row** — **Style no.**, **Size**, **Plotter paper width**, the save buttons **PDF full scale (plotter)** · **PDF A4 tiles** · **DXF (ASTM/AAMA)**, **Open in** for other tools, and **About the files**.
2. **① Style** — choose the item, shoulder, hem, sleeve end, hood and pocket.
3. **② Spec measurements** — enter finished measurements (cm) by area. The pattern on the right updates as you type.
4. **③ Seam allowance** — set the basic allowance and the hem and cuff turn-ups.
5. **Pattern preview** (top right) — the drawn pieces. Below it the **Measurement check** table shows whether the lines that are sewn together match.

> **Tip** If you have a previous draft, you are first asked to **Continue** or **Start new**. Your measurements are kept only in this browser.

02 Choose a style

First decide what kind of garment it is. The input boxes below change to match your choices.



Item (1) and shoulder (2), and the button that fills in sample measurements (3)

1. **Item** — choose **T-shirt**, **Sweatshirt**, **Hoodie** or **Zip-up hoodie**.
2. **Shoulder** — **Set-in** (normal sleeve at the shoulder point) or **Drop shoulder**.
3. **Hem** · **Sleeve end** — each is **Rib** (a separate rib piece) or **Turn-back**.

4. For hoodies, also choose **Hood** (**2 panels** or **3 panels (center)**), **Hood lining** (**None (1 layer)** or **Lined (2 layers)**) and **Pocket** (**None** · **Kangaroo**).

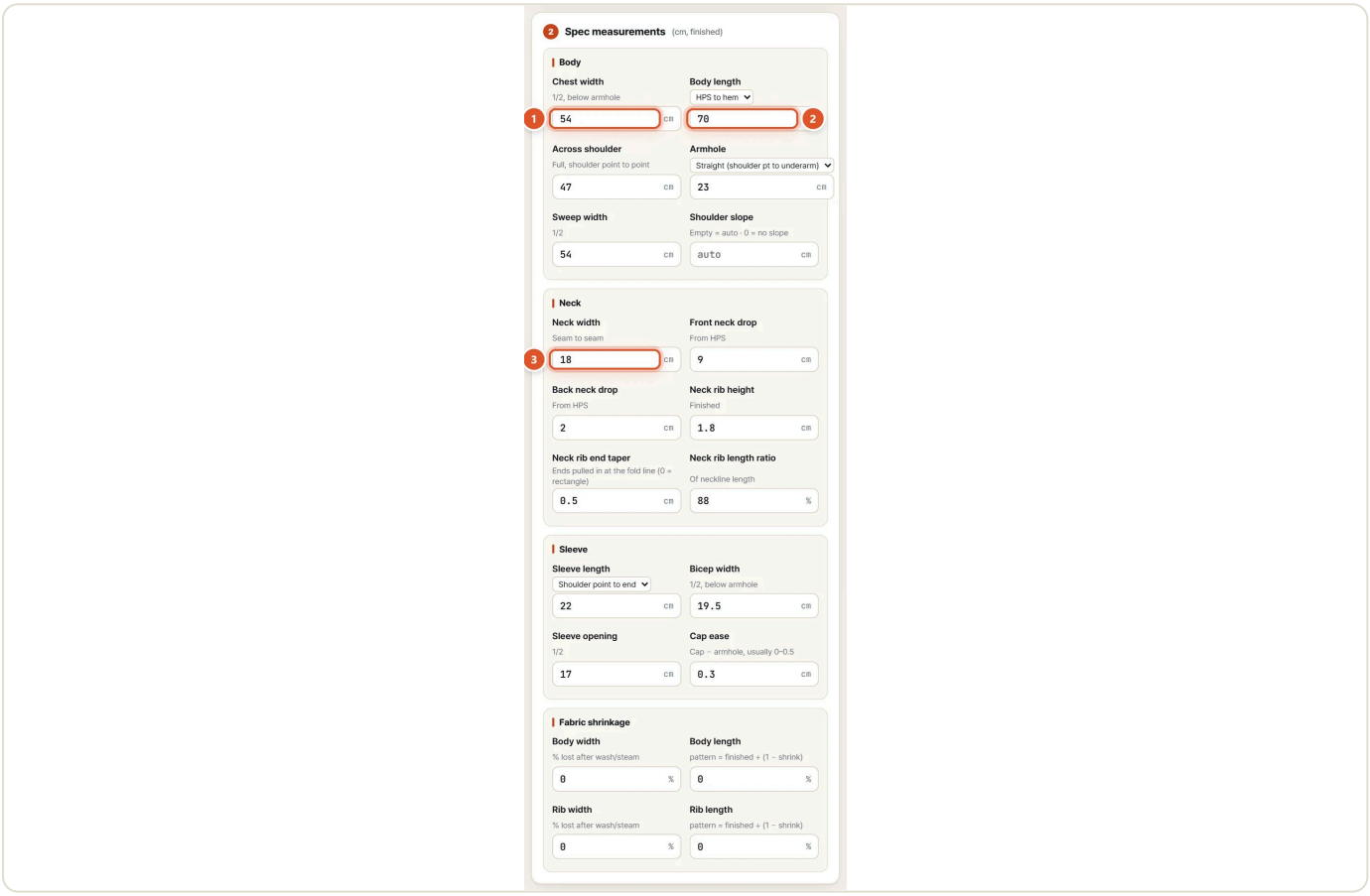
5. **Fill sample measurements** fills in example measurements for the chosen item. It is easiest to start from these and replace them with your own.

> **Note** Changing the item removes boxes the item does not use and adds new ones. After changing, **Fill sample measurements** puts in fresh starting values for that item.

---

03 Enter the spec measurements

All values are **finished measurements (cm)**, grouped by area (body · neck · sleeve · rib · hood · pocket).



Spec measurements — chest width (1), body length (2), neck width (3)

1. **Body** — **Chest width** (1/2, below armhole) · **Body length** · **Across shoulder** · **Armhole** · **Sweep width** (1/2) · **Shoulder slope**.

2. Pick the basis for **Body length** above the box: **HPS to hem** or **CB to hem**. For **Armhole** choose how you measured it: **Straight (shoulder pt to underarm)** or **Curved (front + back)**.

3. Leave **Shoulder slope** empty for automatic. 0 means no slope.

4. **Neck** — **Neck width** (sew-line basis) · **Front neck drop** · **Back neck drop** (HPS basis) · **Neck rib height** · **Neck rib end taper** · **Neck rib length ratio**.

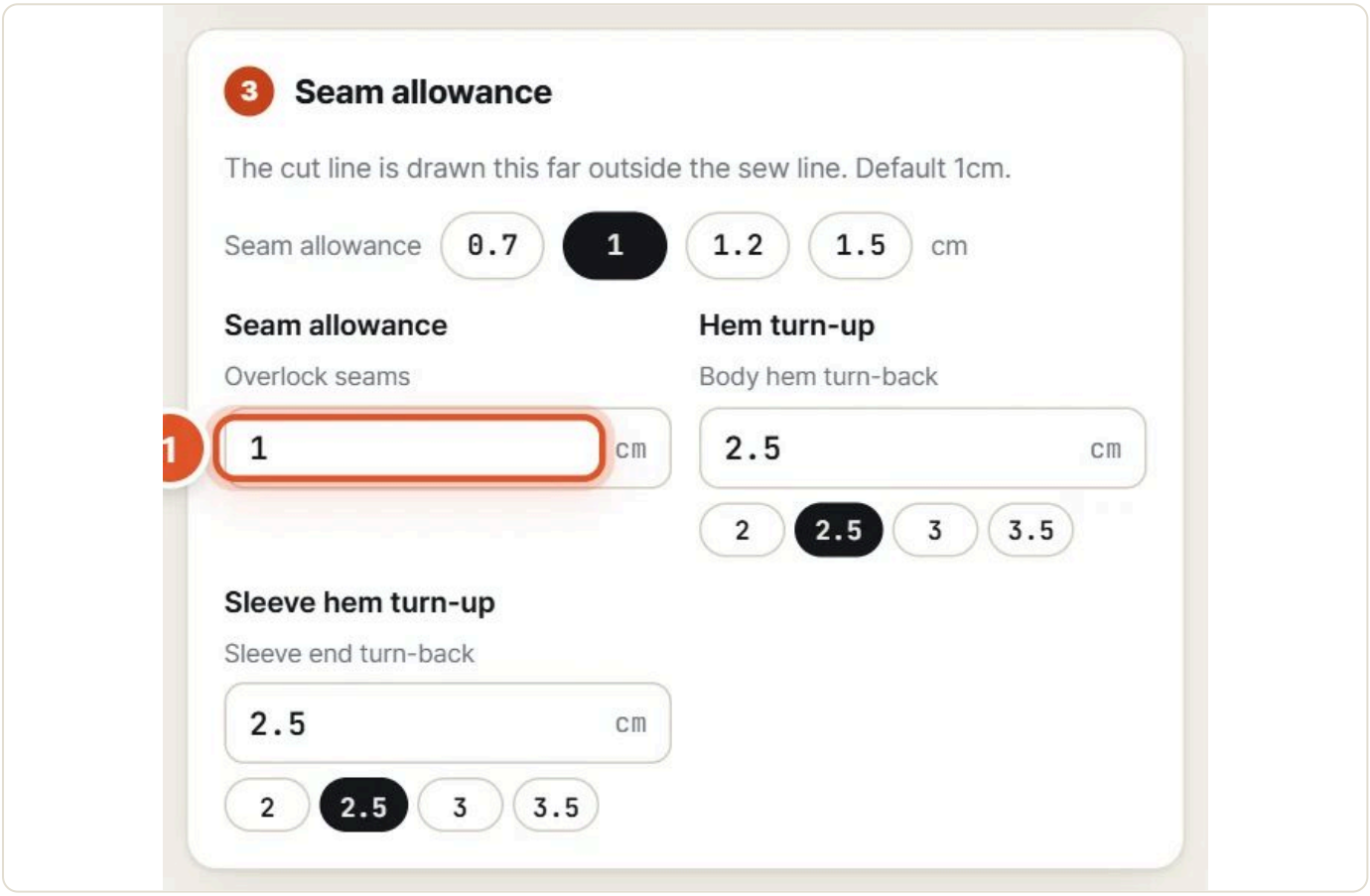
5 **Sleeve** — **Sleeve length** (shoulder point to end, or CB to end) · **Bicep width** · **Sleeve opening** · **Cap ease**. With ribs chosen, the rib length ratio and height boxes for cuffs and hem appear too.

6 Under **Fabric shrinkage** enter the % the fabric shrinks after washing or steaming, across and lengthwise for the body and the rib. 0 means no allowance.

> **Tip** With shrinkage entered, the measurements are scaled up (finished ÷ (1 − shrinkage)) before drawing, not afterwards — so the sleeve cap and armhole stay matched.

04 Seam allowance

The cut line is drawn this far outside the sew line. The default is 1 cm.



Seam allowance — the basic allowance (1) and the turn-up chips

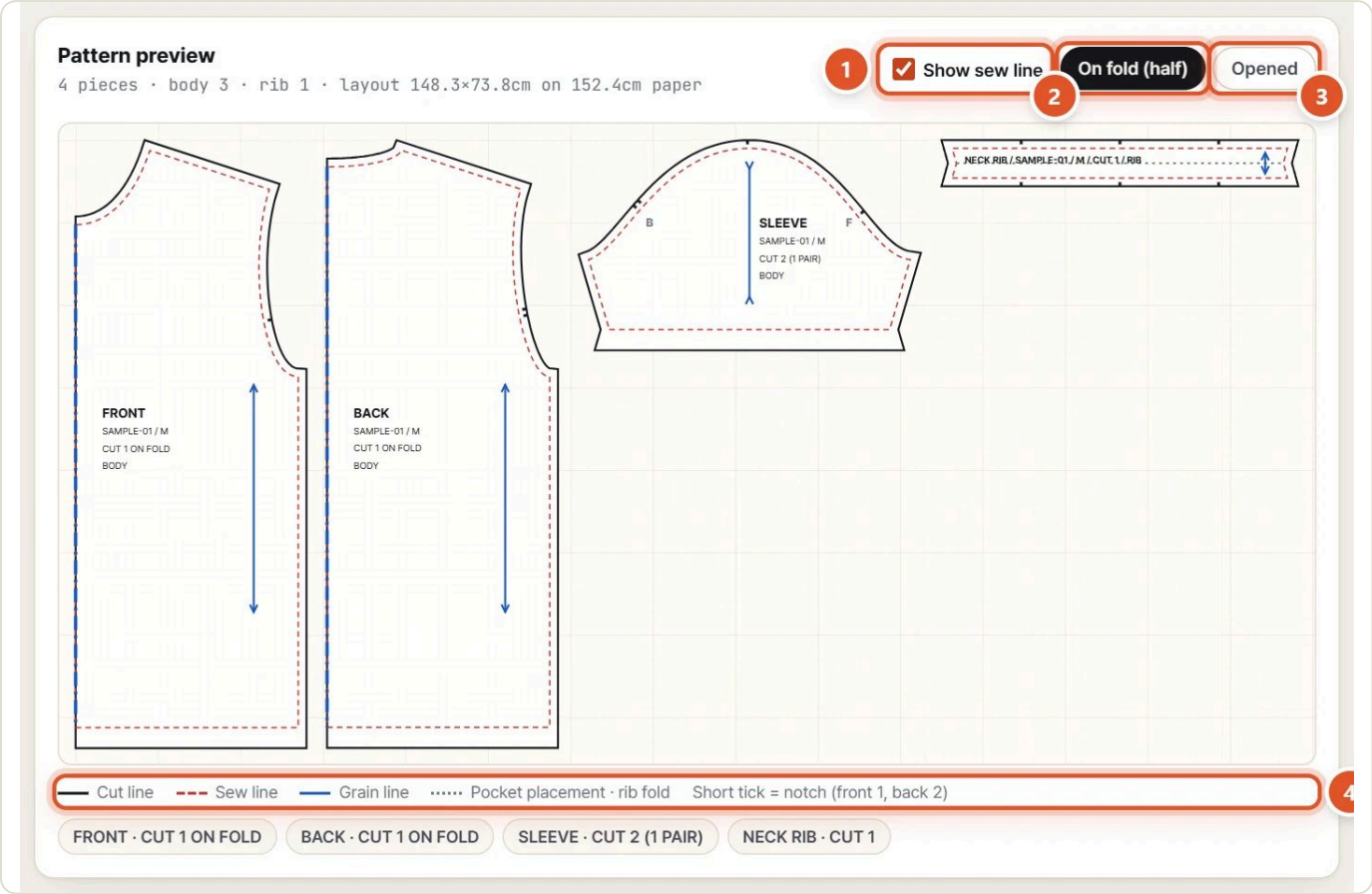
1 Click the 0.7 · 1 · 1.2 · 1.5 chips for the **Seam allowance**, or type the cm directly (for an overlocked seam).

2 If you chose **Turn-back** for the hem or sleeve end, also set **Hem turn-up** and **Sleeve hem turn-up** (2 · 2.5 · 3 · 3.5 cm).

3 With a hood or pocket, allowance boxes for the hood front edge and the pocket opening also appear.

05 Pattern preview

The pattern is redrawn as soon as you change a value. The top line shows the piece count, layout size and paper width.



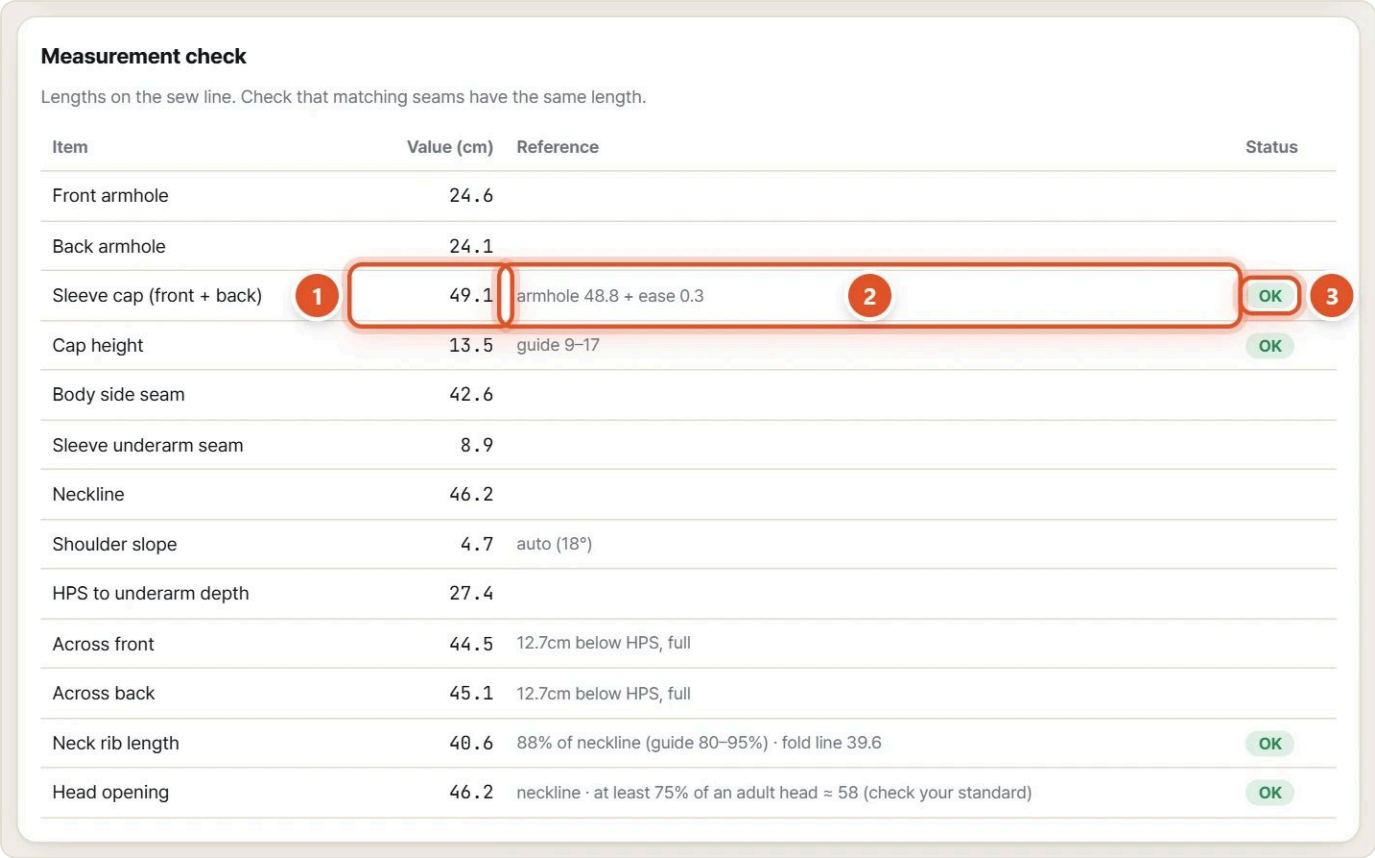
Show sew line (1), On fold / Opened (2 · 3) and the legend (4)

1. **Show sew line** on shows the red dashed sew line; off shows only the cut line.
2. **On fold (half)** draws symmetrical pieces such as the front and back as one half, to cut on the fold. **Opened** draws both halves.
3. Legend — black line = cut line, red dashed = sew line, blue arrow = grain direction, dotted = pocket placement · rib fold, short tick = notch (front 1, back 2).
4. Each piece is labelled with the style number, size, cut quantity (e.g. cut 1 on fold, 1 pair) and fabric. The chips below list every piece at a glance.

> **Tip** A rib piece longer than the paper is turned 90° automatically.

06 Measurement check

The tool measures the drawn pattern along the sew lines and tells you whether the lines that are sewn together match.



The measurement check table — value (1), reference (2), status (3)

1. **Value (cm)** is the length measured on the drawn pattern. **Reference** shows what it was compared with, or a rule-of-thumb range (e.g. armhole + ease, reference 9–17).
2. **Status** shows **OK** when the matching lengths agree. If not, **Check** appears — review the measurement for that item.
3. Checked items include sleeve cap ↔ armhole + ease, cap height, hood neck ↔ body neck, the neck rib ratio, and whether the neckline is wide enough for a head.

> **Note** Reference ranges are typical values. They vary with the garment and fabric, so something that is not "OK" can stay if you meant it.

07 Save as PDF or DXF

In the top row, enter the style number and size, then pick a format.



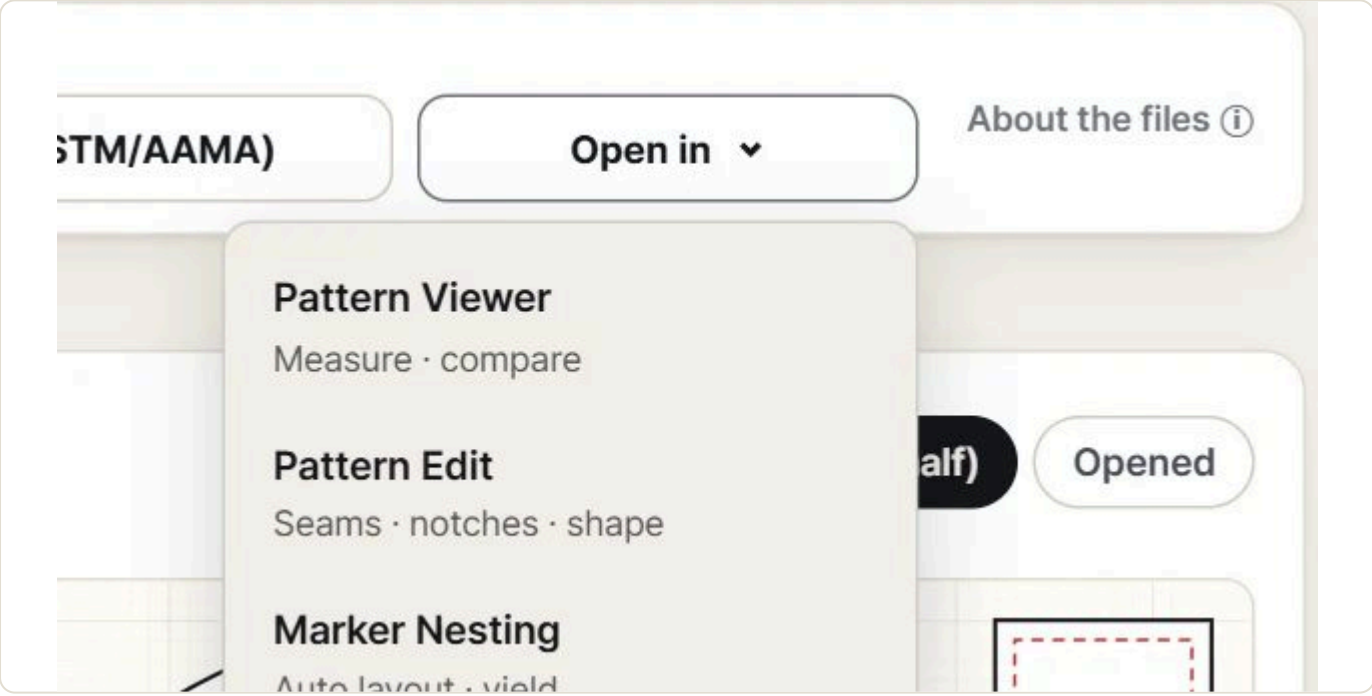
Top row — style no. (1), paper width (2), full-scale PDF (3), A4 tiles (4), DXF (5)

1. **Style no.** and **Size** accept letters and numbers only (A–Z, 0–9, - _ /). They are written into the PDF and DXF.
2. **PDF full scale (plotter)** — choose the **Plotter paper width** (91.4 · 111.8 · 152.4 · 183 cm) and download a PDF laid out at real size for that width.
3. **PDF A4 tiles** — a PDF split into A4 pages for a desktop printer. Tape the sheets together.
4. **DXF (ASTM/AAMA)** — downloads a ZIP containing ① an AAMA file (for this site's Viewer, Nesting and Pattern Edit, and for CAD), ② a plain lines-only DXF (for programs that cannot open AAMA) and ③ a measurement note (spec.txt). Units are mm.

> **Note** Print PDFs at **actual size (100%)**, plotter or A4, and check the 10 cm square with a ruler. DXF import settings differ between CAD programs, so measure once the first time.

08 Open in other tools

Open the drafted pattern straight in another tool without saving.



The **Open in** menu

1. Click **Open in** ▾ in the top row.
2. Pick **Pattern Viewer** (measure · compare), **Pattern Edit** (seam · notch · reshape) or **Marker Nesting** (auto-nest · yardage) and it opens in the same tab.
3. The file is held only inside your browser for a moment (10 minutes) and is never sent to a server.

> **Note** The draft is saved on the fold (half). For Marker Nesting, first choose **Opened** in the preview, then save or send.

09 FAQ

Q. Can I use the drawn pattern for production as is?

No. It is a sample draft — have a pattern maker review it first. Raglan, V-neck and panel seams are not supported yet.

Q. Are my measurements sent to a server?

No. All calculation and drawing happen in this browser, and your measurements are stored only in this browser.

Q. The printout is not the right size.

If "Fit" or "Fit to page" is on in the print dialog the pattern shrinks. Set the scale to **100% (actual size)** and measure the 10 cm square with a ruler.

Q. How do I enter shrinkage?

Enter the % the fabric shrinks after washing or steaming, across and lengthwise, for the body and the rib. For example 5% across — type 5. 0 means no allowance. Values above 30% are not accepted.

Q. How do I put it into Marker Nesting?

Choose **Opened** in the preview and use **Open in** → **Marker Nesting**, or save with **DXF (ASTM/AAMA)** and open that file in Nesting.