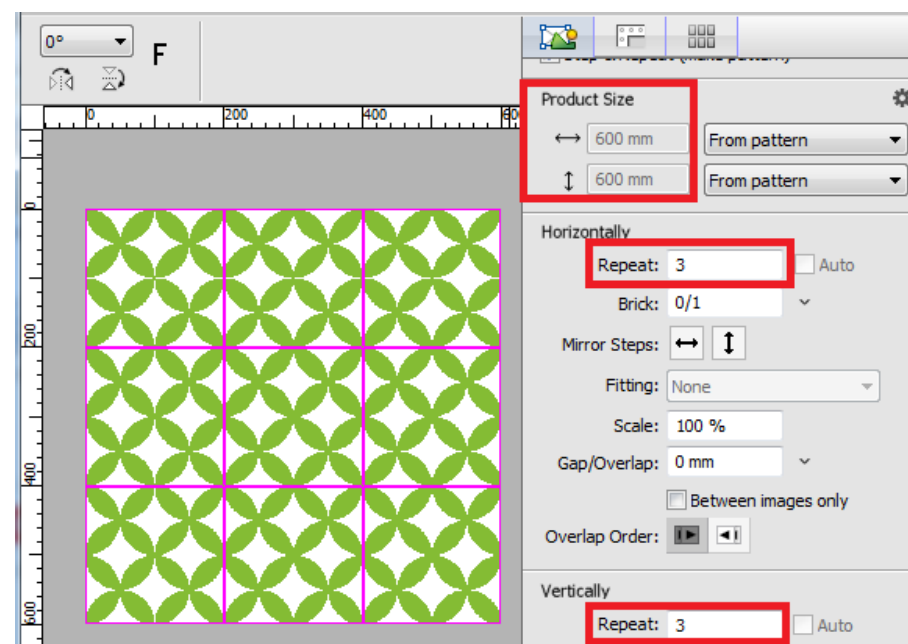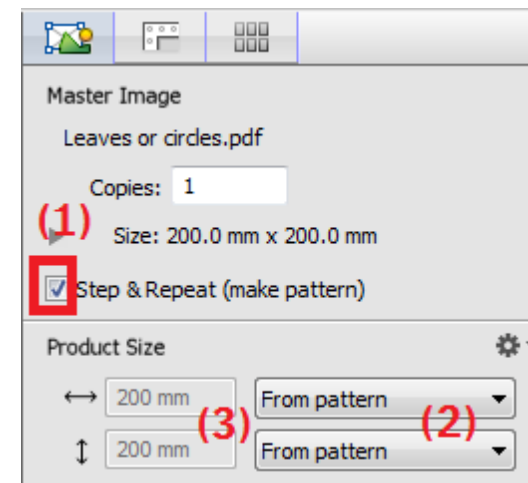Tutorial | # Creating patterns

This tutorial explains how to create patterns in Image Editor.
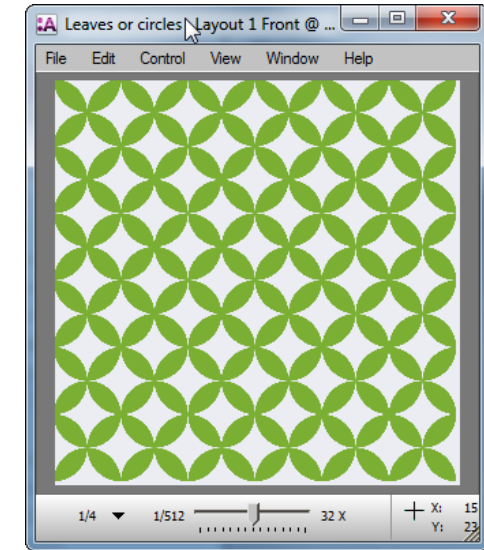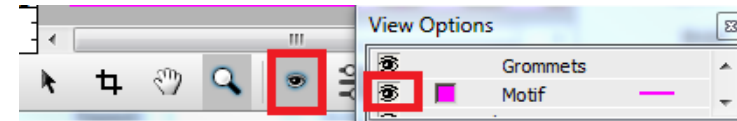
Download the Asanti Sample Files via the Asanti Client (Help > Asanti Online > Download Sample Files).

1. Create a pattern by numbers

1. Log on with the Asanti client.
2. File>New Layout Job.
3. Select a printer.
4. Set sheet size to e.g. 1000x700 mm.
5. Open the Finishing inspector.
6. Set Finishing Margins to "From Edge 5, between 5".
7. Import image "Leaves or circles.pdf".
8. Double click the image to open it in Image Editor.
9. Check "Step & Repeat (make pattern)" (1). All step & repeat settings are shown in the inspector.

- The product size is set to "From pattern" (2). With this setting, the size of the pattern (aka Product size) is automatically calculated depending on the settings of the pattern.

- By default the Horizontal and vertical repeat are set to 1. This means the Product size is equal to the original image size: 200 x 200 mm (3).

10. Set both Horizontal and Vertical repeat to 3. This creates a pattern of 3 by 3. The product size is automatically set to 600 x 600 mm.
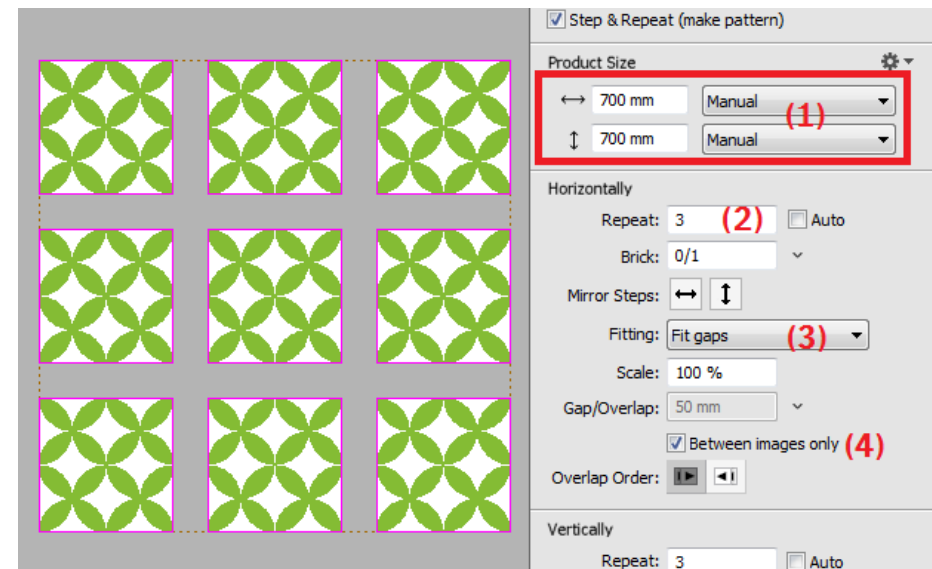
11. The Magenta lines indicate the positions of the cells inside the pattern. These lines will not be printed. Open the Viewing options palette. Turn off the viewing option "Motif". This hides the magenta lines.

12. Turn on viewing "Motif" again and close the View options palette.

13. Click Apply to return to Layout Editor. The available images pane displays a thumbnail of the complete pattern. The size is set to 600 x 600 mm.

14. Drag the pattern to the sheet.

15. Submit the job:

- Select Print Files: "Make and Hold" and click Submit.

16. From the results tab, open raster preview. The pattern is rendered without gaps between the cells. The edges of the cells seamlessly match up with each other, top to bottom and side to side.
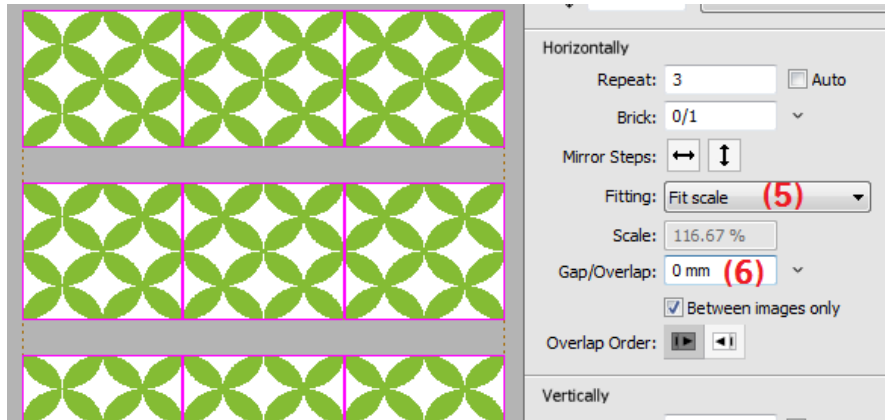
17. Close raster preview.

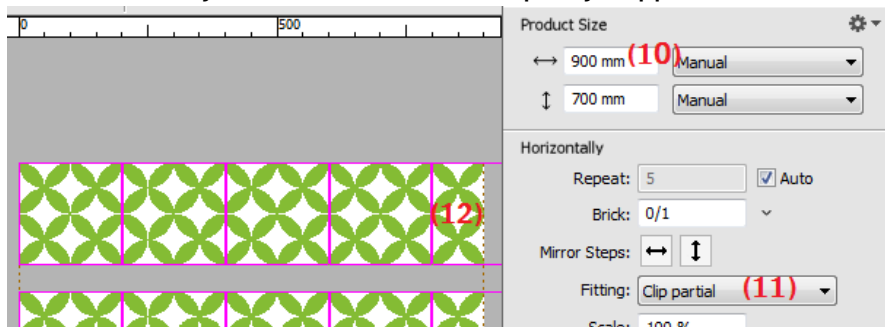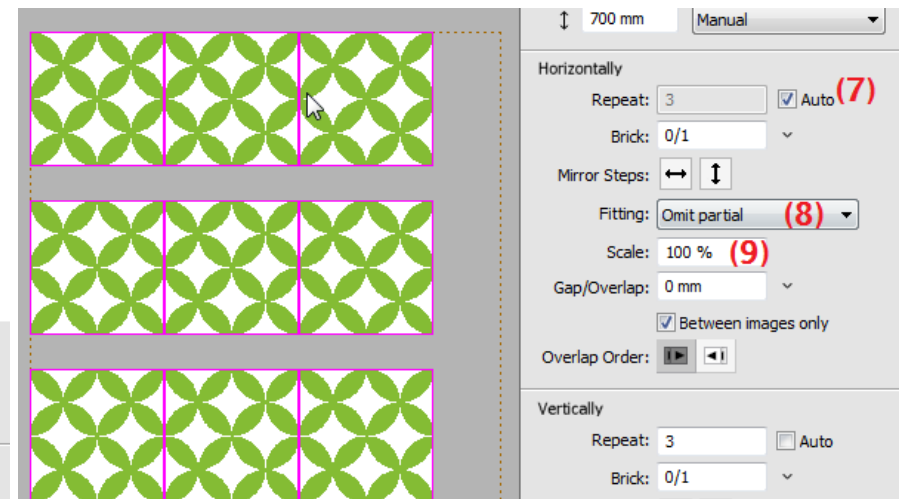## 2. Create a pattern for a specific product size

1. Edit job "Leaves or circles".
2. Edit the image in Image Editor.
3. Change product size horizontally and vertically to manual 700 mm (1).

- The repeat (2) is set fixed to 3 x 3.

- The fitting (3) is set to Fit gaps. The gaps in between cells and a top and bottom of the pattern is distributed evenly.

4. Check horizontally and vertically "Between images only" (4) to get only gaps between the cells.
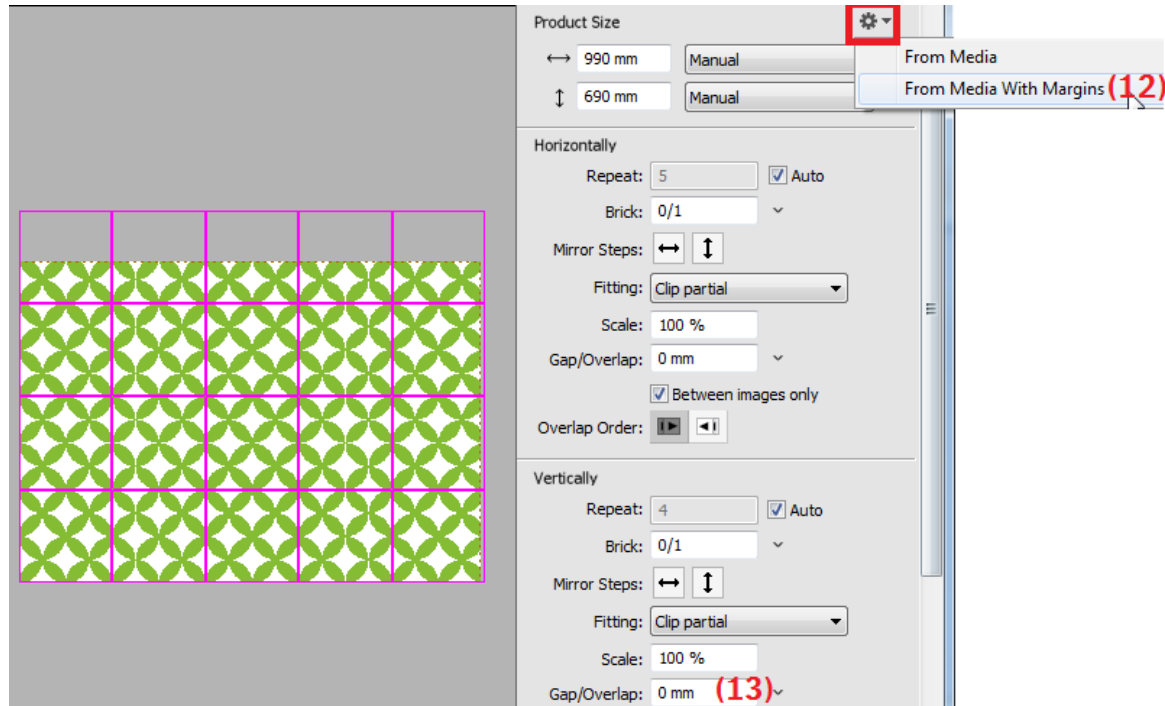
5. Change horizontally fitting to Fit Scale (5).
6. Change horizontally Gap/Overlap (6) to 0 mm. This scales the 3 tiles horizontally to the product width with no gaps in between.

7. Check "Auto" for the horizontal Repeat (7).
8. Select Fitting: Omit partial (8).
9. Change Scale (9) to 100%. The horizontal repeat value is automatically set to 3. Partial cells are not drawn because of the "omit partial" setting.
10. Change the product size width to 900 mm (10).
11. Set horizontal fitting to "Clip partial" (11). The horizontal repeat is automatically set to 5. The 5th cell is partly clipped (12).
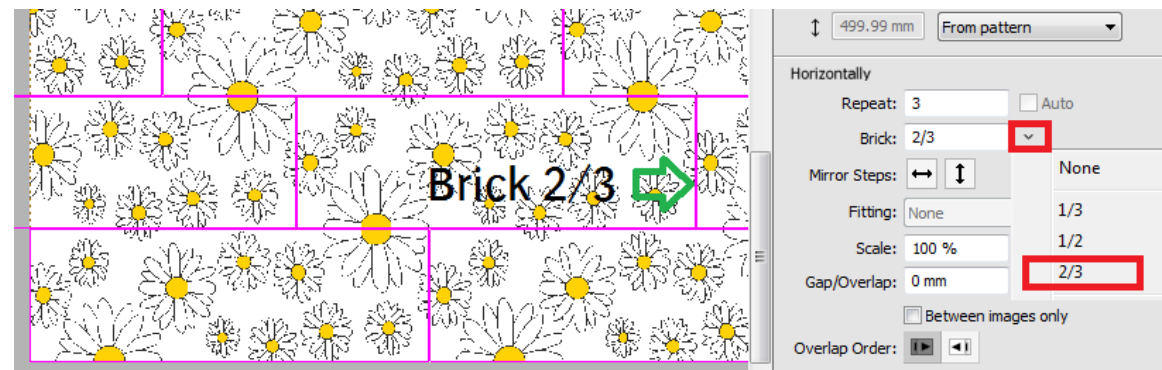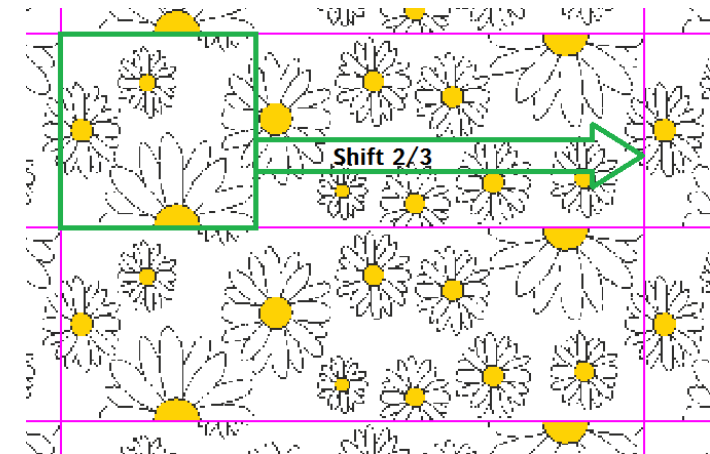
12. Click the cog wheel next to the Product size, select "From media with margins" (12). This sets the product size to the media size minus the finishing margins: 990 x 690 mm.
13. Change vertical gap to 0 mm (13). The image is maximally repeated inside the Finishing margins. Partial cells are clipped.

14. Click Apply to return to Layout Editor.
15. Select menu Sheet > Rearrange Frames.
16. Submit the job:

- Select Print Files: "Make and Hold" and click Submit.

17. From the results tab, open raster preview. The pattern is rendered without gaps between the cells. The image is maximally repeated inside the Finishing margins.
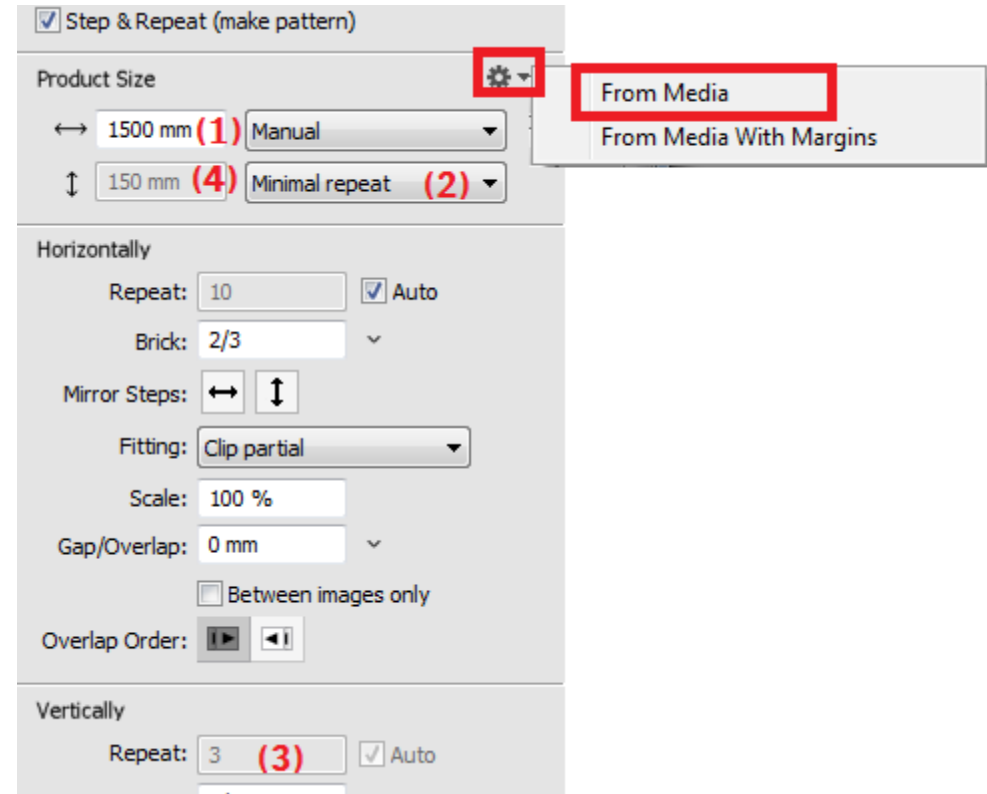18. Close raster preview.

3. Use the Brick and drop settings

1. File>New Layout Job.
2. Select a printer.
3. If the printer is able to print on roll, check "Print on roll"
4. Set width to e.g. 1500 mm.
5. If a Tauro is selected as printer, open the Layout Sheets inspector, check "Keep sheets centered".
6. Open the Finishing inspector.
7. Set Finishing Margins to "From Edge 0, between 0".
8. Import image "Flowers 150x50mm.pdf".
9. Edit the image in Image Editor.
10. Check Step & Repeat.
11. Set horizontal repeat to 3 and vertical repeat to 10. Notice that the top side of the image doesn't match with the bottom side of the image in the above row. This is because the image was designed to shift 2/3 of a cell in a pattern.
12. Next to the horizontal brick field, click the drop down and select "2/3". This shifts each row 2/3.

13. Click Apply to return to Layout Editor.
14. Drag the pattern to the sheet.
15. Submit the job:

- Select Print Files: "Make and Hold" and click Submit.

16. From the results tab, open raster preview. The pattern is rendered without gaps between the cells. The edges of the cells seamlessly match up with each other, top to bottom and side to side.
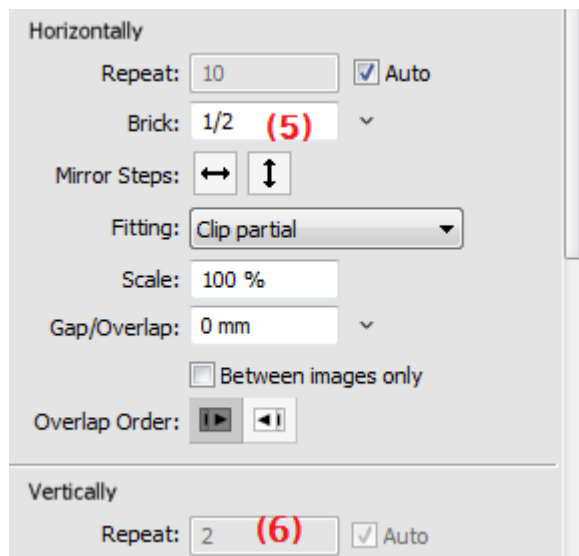17. Close raster preview.
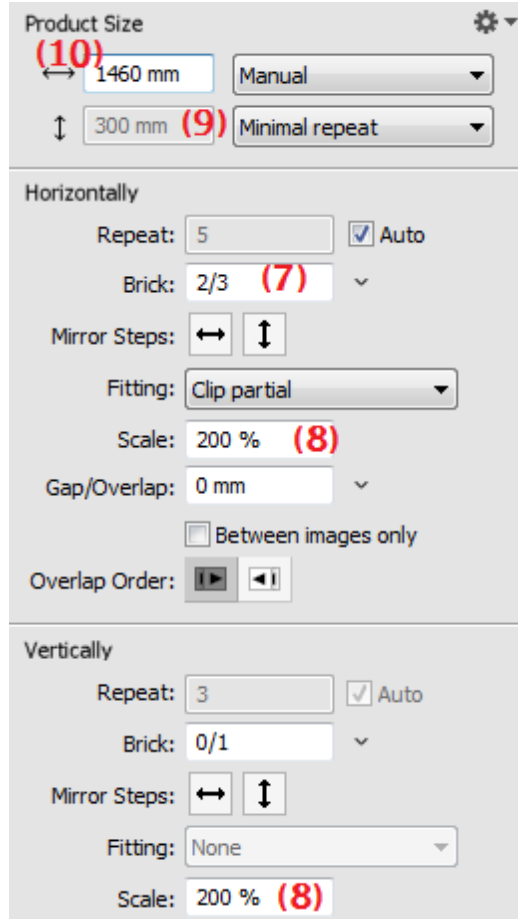
4. Use the minimal repeat option

1. Edit job "Flowers 150x50mm".
2. Edit the image in Image Editor.
3. Click the cog wheel next to the Product size, select "From media". The horizontal product size is set to the media width (1). Because roll media is used, the vertical product size is set to "Minimal repeat" (2). With the minimal repeat option on, the repeat count and the product size is automatically calculated. The vertical repeat (3) is set to 3 because the brick is set to 2/3. The product size height (4) is set to 150 mm.

4. Change the horizontal Brick (5) to 1/2. Vertical repeat (6) is set to 2.
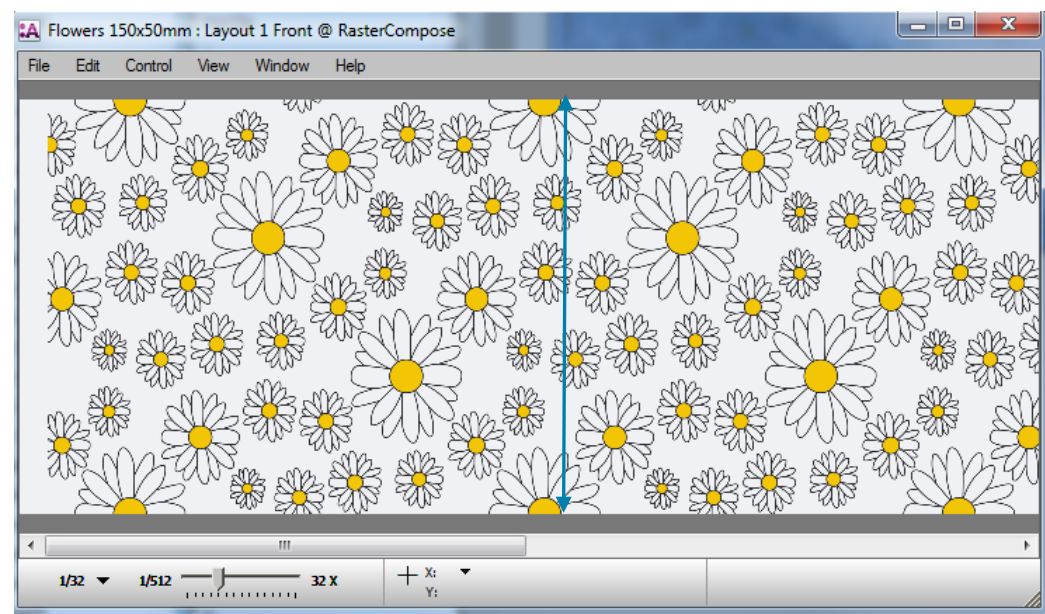
5. Change the horizontal Brick (7) to 2/3 again.
6. Change horizontal and vertical scale (8) to 200%. The vertical repeat is still 3 but now the product size height (9) is 300 mm.
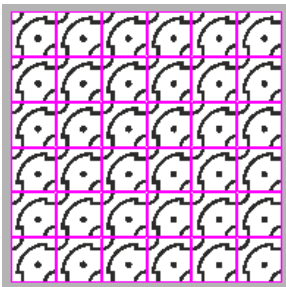7. Change the product size width (10) to 1460 mm to make the pattern little bit smaller than the media width.

Product Size ⚙▾

(10)
↔ 1460 mm   Manual ▼
↕ 300 mm (9)   Minimal repeat ▼

Horizontally
Repeat: 5   ☑ Auto
Brick: 2/3 (7)   ˅
Mirror Steps: ↔ ↕
Fitting: Clip partial ▼
Scale: 200 % (8)
Gap/Overlap: 0 mm   ˅
☐ Between images only
Overlap Order: ▮▶ ◀▮

Vertically
Repeat: 3   ☑ Auto
Brick: 0/1   ˅
Mirror Steps: ↔ ↕
Fitting: None ▼
Scale: 200 % (8)

8. Click Apply to return to Layout Editor.
9. Drag the pattern to the sheet.
10. Center the pattern horizontally on the sheet.

ASANTI

11. Submit the job:

- Select Print Files: "Make and Hold" and click Submit.

12. From the results tab, open raster preview. The pattern is rendered without gaps between the cells and no gaps at the bottom and top of the pattern. The edges of the cells seamlessly match up with each other. The bottom and top of the pattern also seamlessly match up.

13. Close raster preview.

14. Continue the job to the printer.

15. If your printer can print copies of an image without a gap between the copies (e.g. Tauro), print the job with copy count of e.g. 5 x on roll media. The printed result will be a 1.5 m long seamless pattern.
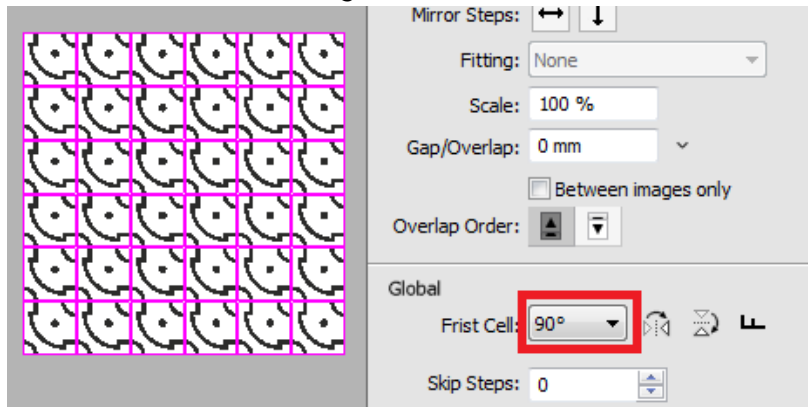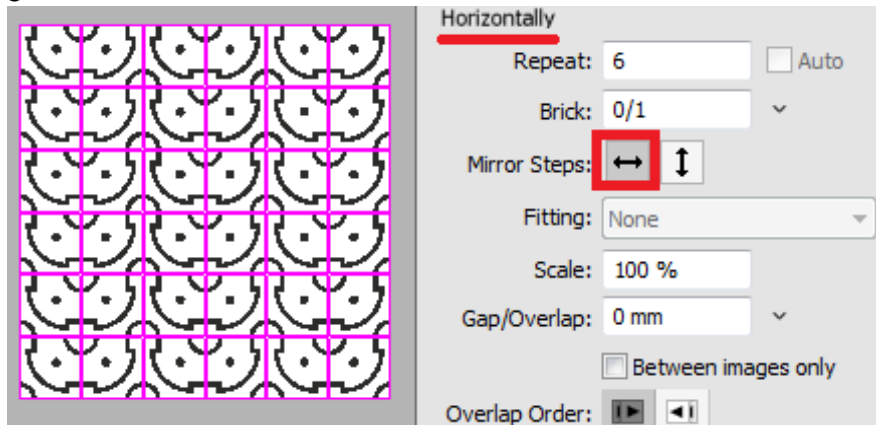

5. Setup mirroring, orientation and offset

1. File>New Layout Job.
2. Select a printer.
3. Set Sheet Size to 1400 x 1400 mm.
4. Import image "FloorTile.pdf".
5. Edit the image in Image Editor.
6. Check Step & Repeat.
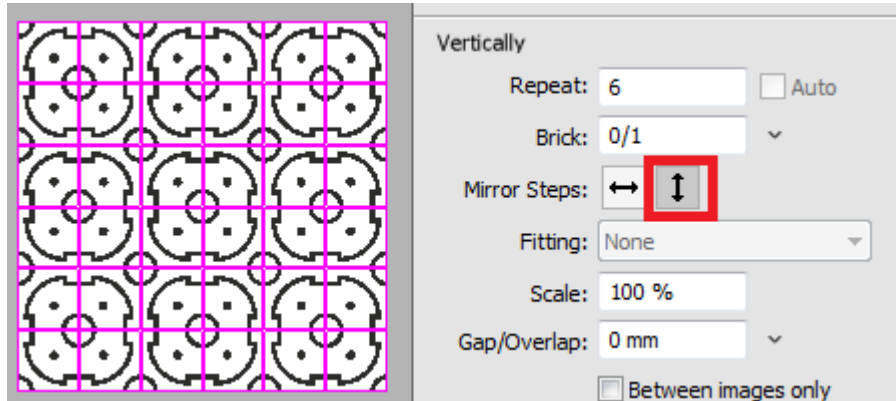7. Set both horizontal and vertical repeat to 6.

8. In the Global section you can change the orientation of the first tile. Set first cell to 90 degrees
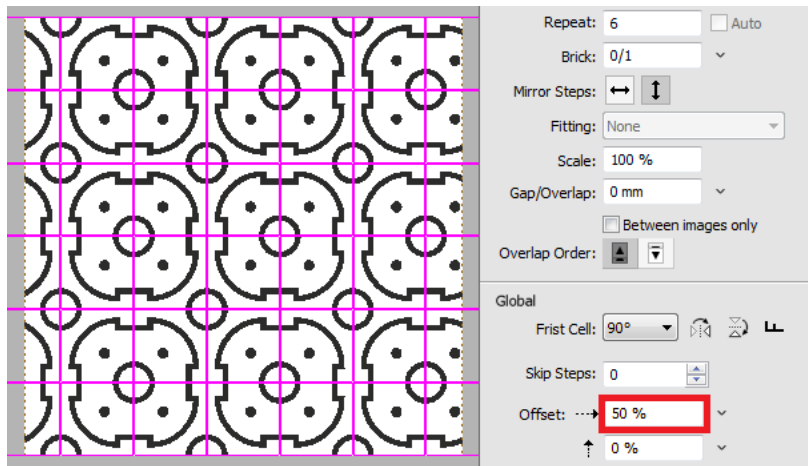

9. Click Horizontally>Mirror steps ↔. All even numbered columns get a mirrored version.

10. Click Vertically>Mirror steps ⬍ . All even numbered rows get a mirrored version.

11. Set Global Offset in horizontal direction to 50%. The pattern now has an offset of half a cell.

12. Click Apply to return to Layout Editor.
13. Drag the pattern to the sheet.
14. Submit the job:

- Select Print Files: "Make and Hold" and click Submit.

15. From the results tab, open raster preview. The pattern is
    rendered without gaps between the cells.
16. Close raster preview.

6. Issues/limitations

- Image DQS is switched off when a pattern is placed on the sheet.
- No bleed around the pattern.
- When cells overlap, image editor and layout editor don't show a proper preview.
- No canvas extensions can be enabled for patterns.
- A pattern cannot contain more than 1 image.
- Wrong thumbnail in montage instructions for tiled step and repeat image.