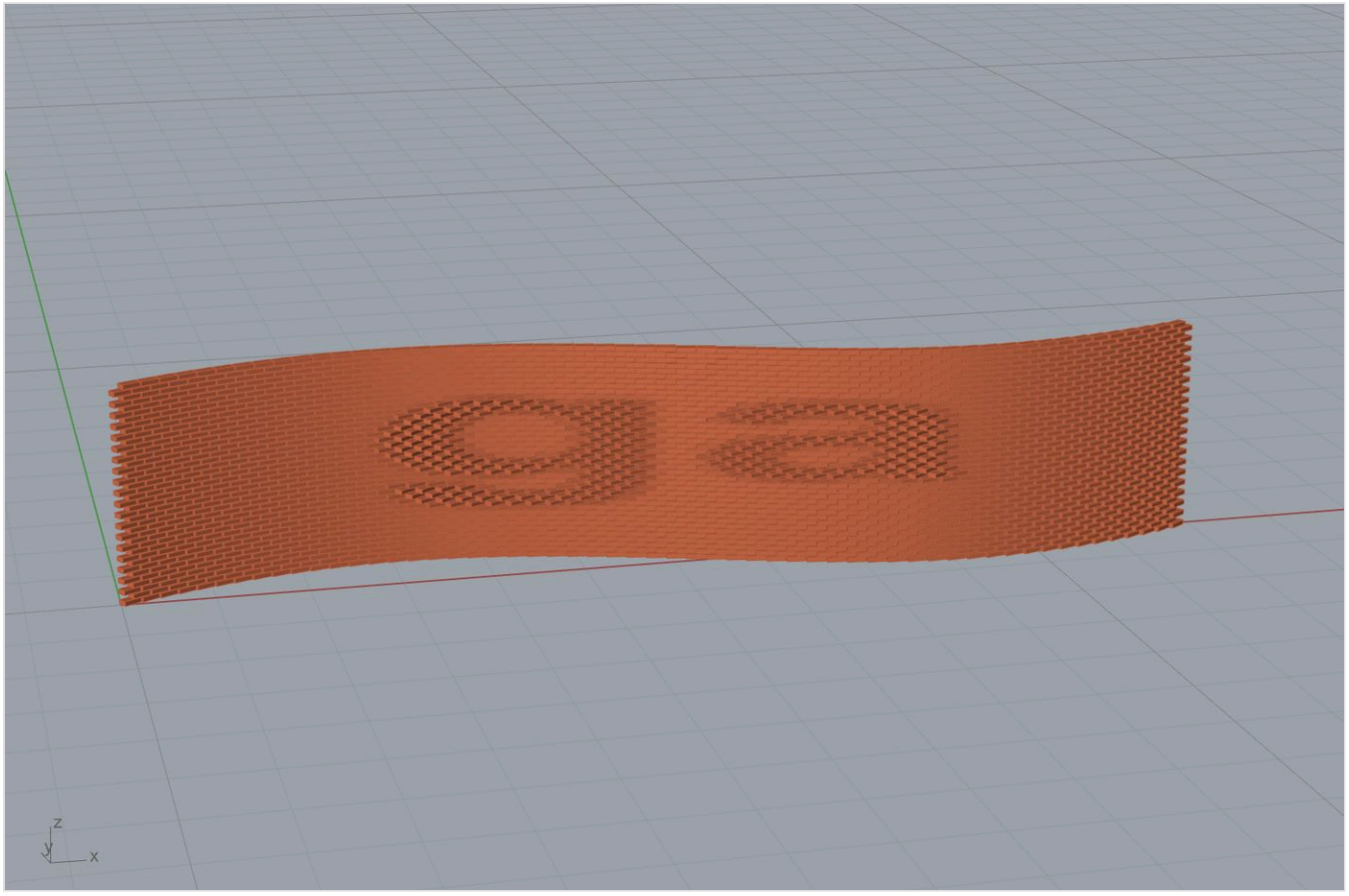
FACADE AND FABRICATION

PARAMETRIC BRICK WALL

Rotated and pushed bricks along any curve, driven by attractor, image or wave



FREE | RHINO 7 · RHINO 8 | NATIVE COMPONENTS ONLY | VERSION 1.0 · NOVEMBER 2026

Bricks are laid in half-brick bond along a base curve, course after course. A driver gives each brick a value from 0 to 1 that rotates it about its vertical axis and pushes it out of the wall: an attractor point, an image or a wave. The panel counts bricks and courses.

Free to use in your own projects, commercial ones included. Please do not resell or re-upload the files: share the link instead.

HOW TO USE

1. Open the file: a curved brick wall appears.
2. Right-click 'Base curve' > Set one Curve and pick your wall line in plan.
3. Set wall height, brick size and joint.
4. Choose the 'Driver' and set maximum rotation and push-out.
5. Read 'Quantities' and bake 'Bricks'.

OPTIONS

Driver: Attractor
Bricks near the 'Attractor' point turn and push out the most.

Driver: Image
The image (embedded, double-click the Image Sampler to change it) is mapped on the unrolled wall.

Driver: Wave
A sine wave along the wall; 'Wave frequency' sets how many.

BAKE

Bricks

GOOD TO KNOW

- Push-out and rotation are limits: keep them compatible with the bond and the mortar bed.

Free to use in your own projects, commercial ones included. Please do not resell or re-upload the files: share the link instead.

INPUTS

PARAMETER	RANGE	DEFAULT
Wall height (m)	0.30 – 6.00	2.40
Brick length (m)	0.100 – 0.500	0.210
Brick depth (m)	0.050 – 0.300	0.100
Brick height (m)	0.030 – 0.200	0.050
Joint (m)	0.000 – 0.050	0.010
Wave frequency	0.5 – 10.0	3.0
Max rotation (deg)	0 – 90	45
Max push-out (m)	0.000 – 0.100	0.030
Driver	Attractor · Image · Wave	Image

GEOMETRY YOU CAN REPLACE

Base curve · Curve

Attractor · Point

RESULTS AT DEFAULT VALUES

QUANTITIES

```
Bricks: 2220
Courses: 40
Wall length: 12.41 m
```


Free to use in your own projects, commercial ones included. Please do not resell or re-upload the files: share the link instead.

INSIDE THE DEFINITION

STAGES, LEFT TO RIGHT AND TOP TO BOTTOM

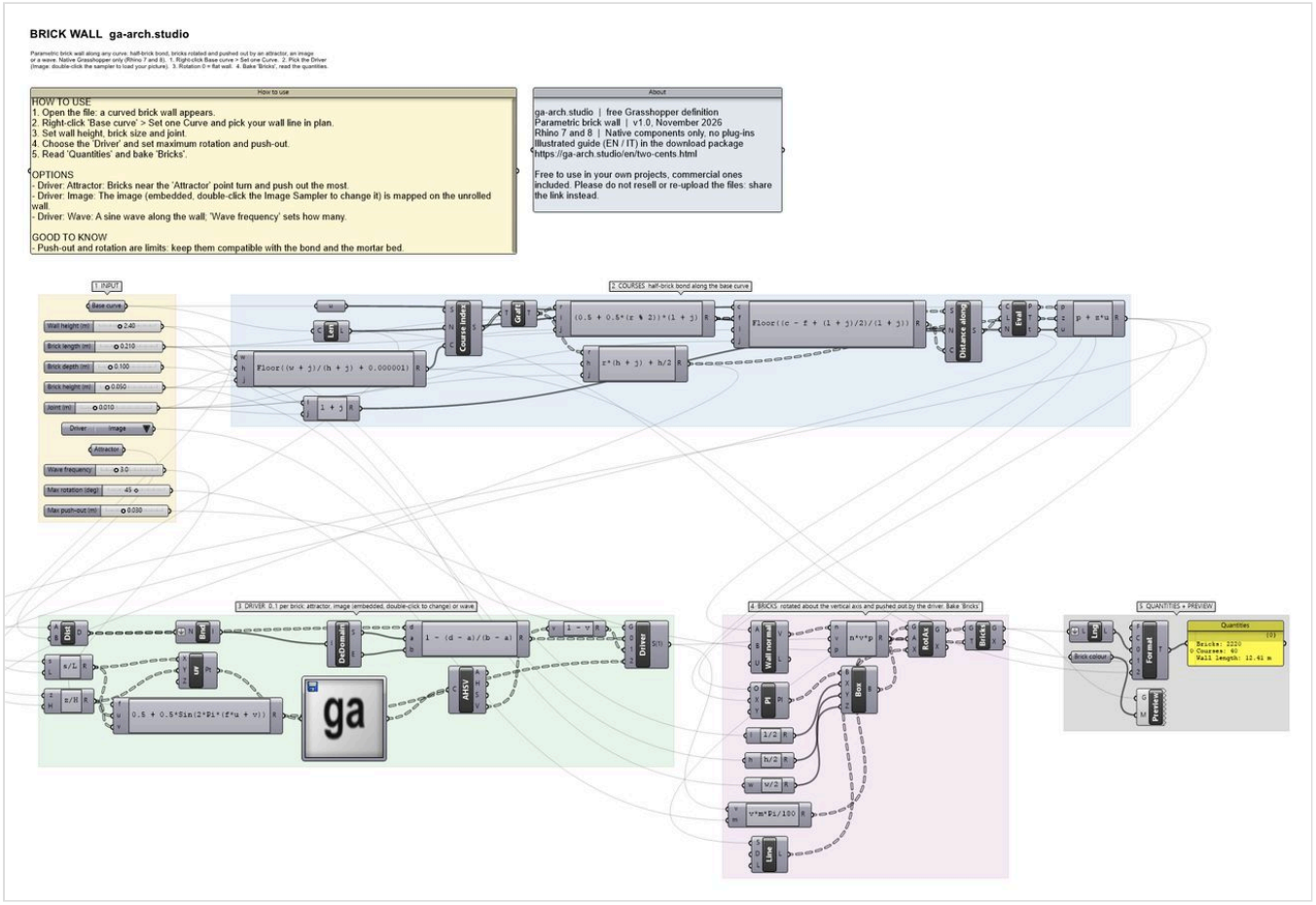
1 INPUT

2 COURSES half-brick bond along the base curve

3 DRIVER 0..1 per brick: attractor, image (embedded, double-click to change) or wave

4 BRICKS rotated about the vertical axis and pushed out by the driver. Bake 'Bricks'

5 QUANTITIES + PREVIEW



Free to use in your own projects, commercial ones included. Please do not resell or re-upload the files: share the link instead.