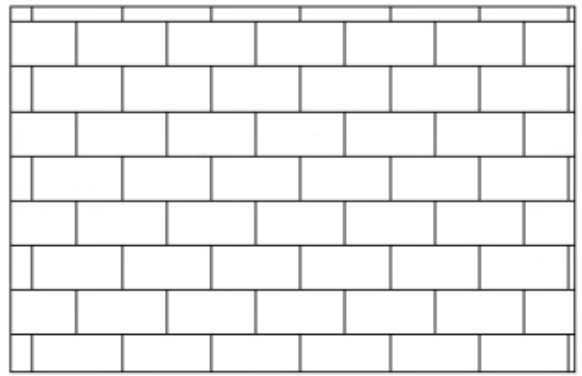

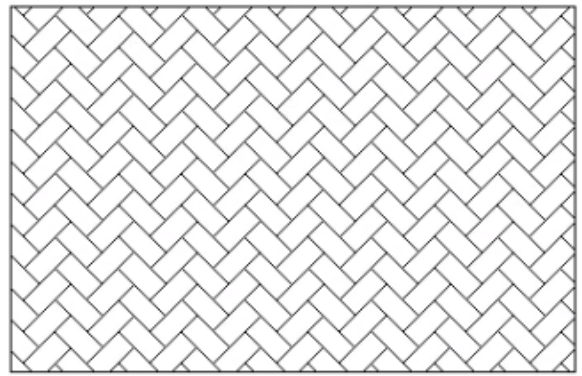

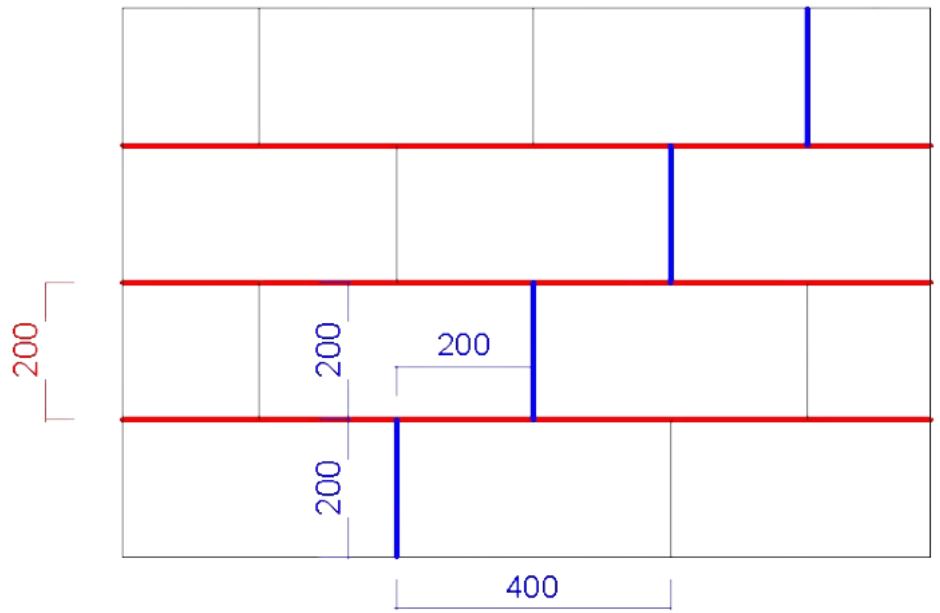

angle
start x
start y
offset perpendicular
offset parallel
portion solid
portion empty

0,0,0,0,200

90,0,0,200,200,200,-200

Creating Hatch Patterns

6 Easy Methods

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Demonstration
What are Hatch Patterns?

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Model vs Drafting Patterns

Model patterns = real world scale

Drafting patterns = paper scale

As drawing scale changes…

Model patterns will change on paper

Drafting patterns won’t

Method 1
Write the Pattern

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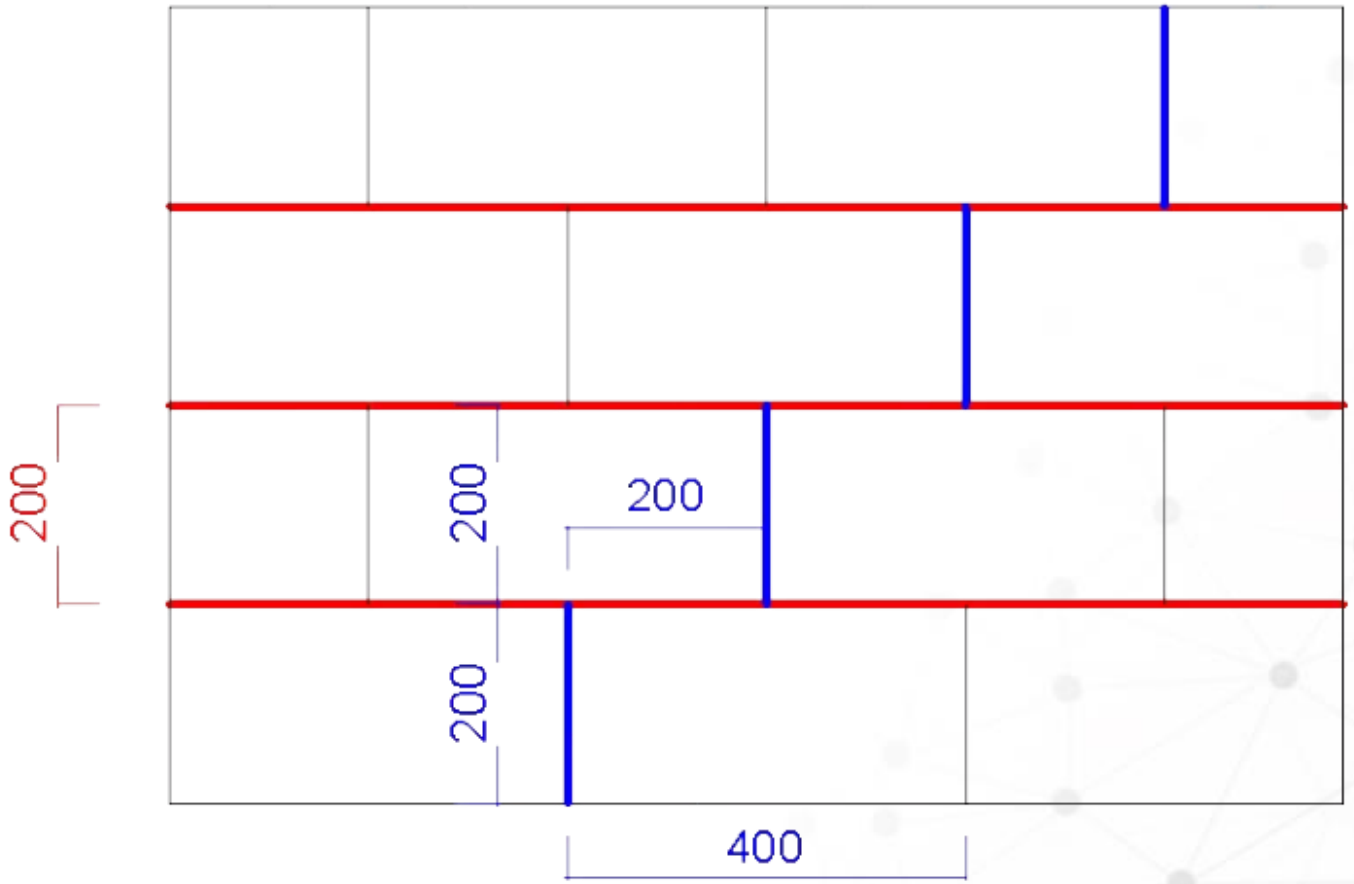
Pro

Only requires notepad

Con

Only really suited for basic patterns



angle
start x
start y
offset perpendicular
offset parallel
portion solid
portion empty

0,0,0,0,200

90,0,0,200,200,200,-200

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Demonstration
Hatch Pattern Formatting

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Method 1a
Brick Pattern Generator

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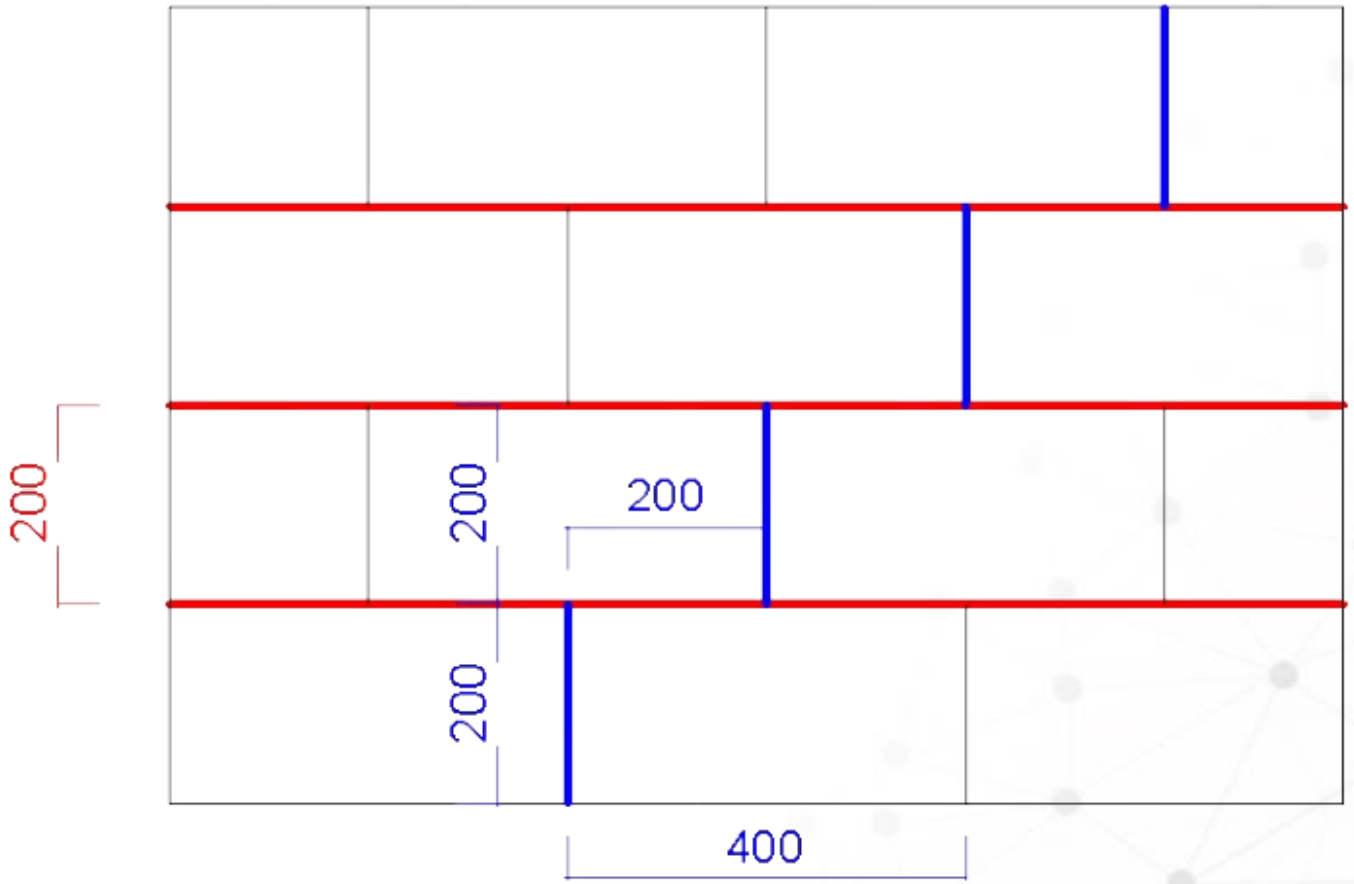

angle
start x
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offset perpendicular
offset parallel
portion solid
portion empty

0,0,0,0,200

90,0,0,200,200,200,-200

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Pro

Does Brick Patterns in excel!

Con

Only for standard staggered brick

Method 2
Harvest ADSK files

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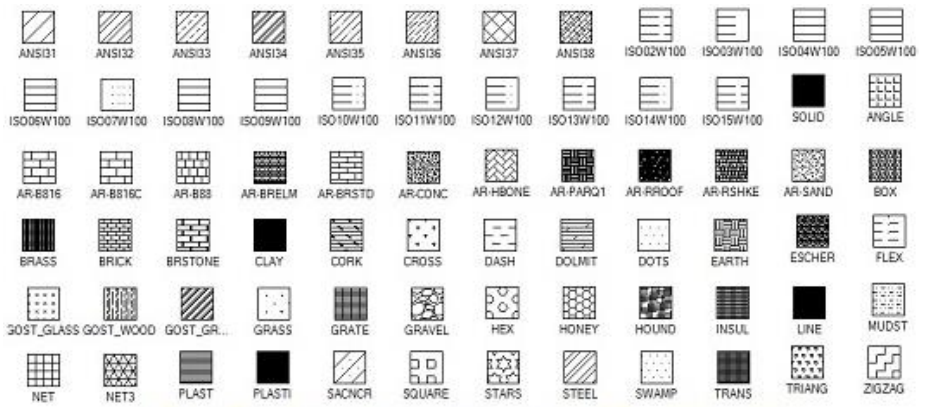

acad.pat - Notepad

Minimise window

File Edit Format View Help

```
;;


;; Note: Dummy pattern description used for 'Solid fill'.
*SOLID, Solid fill
45, 0,0, 0,.125
*ANGLE, Angle steel
0, 0,0, 0,.275, .2,-.075
90, 0,0, 0,.275, .2,-.075
*ANSI31, ANSI Iron, Brick, Stone masonry
45, 0,0, 0,.125
*ANSI32, ANSI Steel
45, 0,0, 0,.375
45, .176776695,0, 0,.375
*ANSI33, ANSI Bronze, Brass, Copper
45, 0,0, 0,.25
45, .176776695,0, 0,.25, .125,-.0625
*ANSI34, ANSI Plastic, Rubber
45, 0,0, 0,.75
45, .176776695,0, 0,.75
45, .353553391,0, 0,.75
45, .530330086,0, 0,.75
*ANSI35, ANSI Fire brick, Refractory material
45, 0,0, 0,.25
```

Pro

Only need Notepad and ADSK software

Con

Only for provided patterns, big files

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Method 3
DrawHatch.vlx
credit: Mladen Gradev

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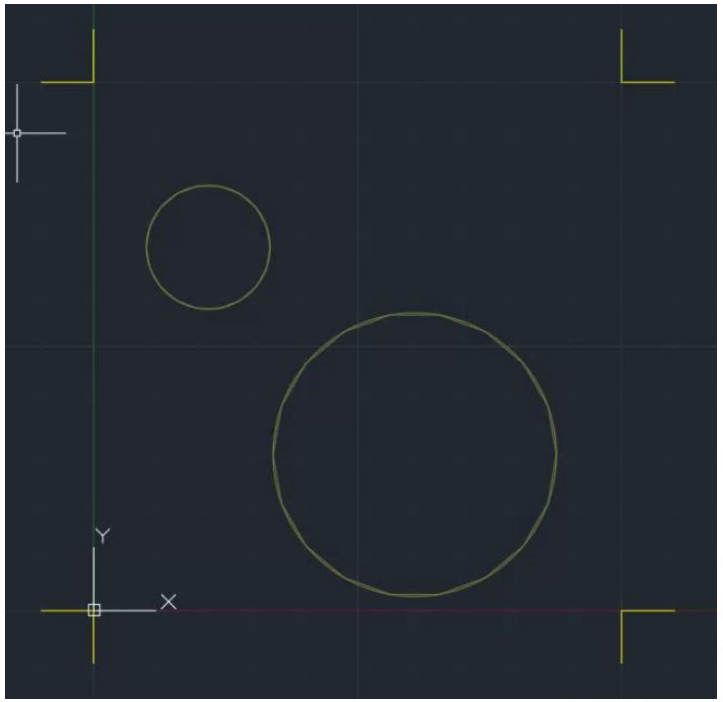

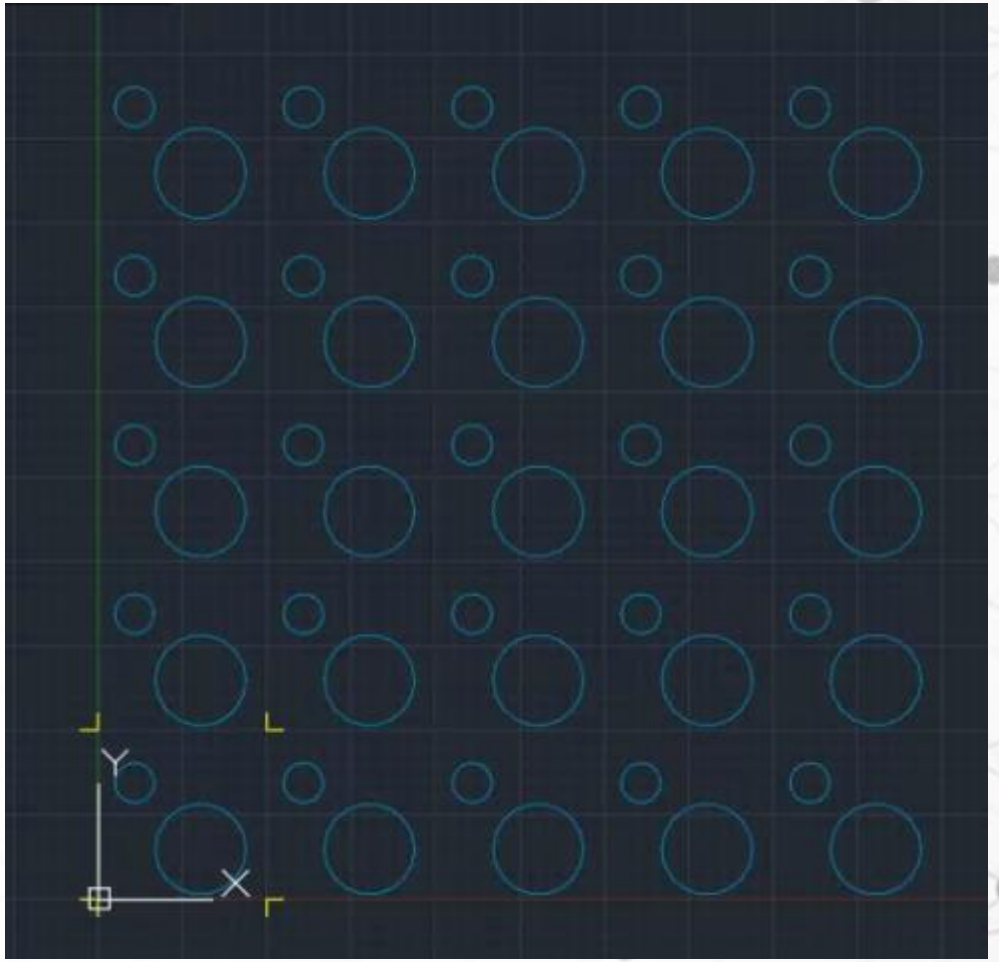

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Pro

If you can draw it, you can hatch it…

Con

….If it fits in a square

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Method 4
getpat.lsp
credit: Tee Square graphics

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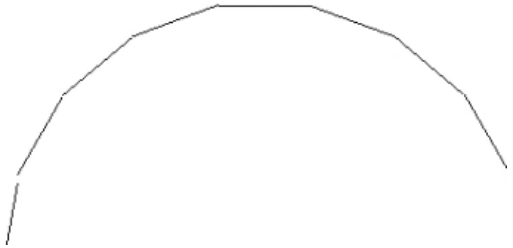

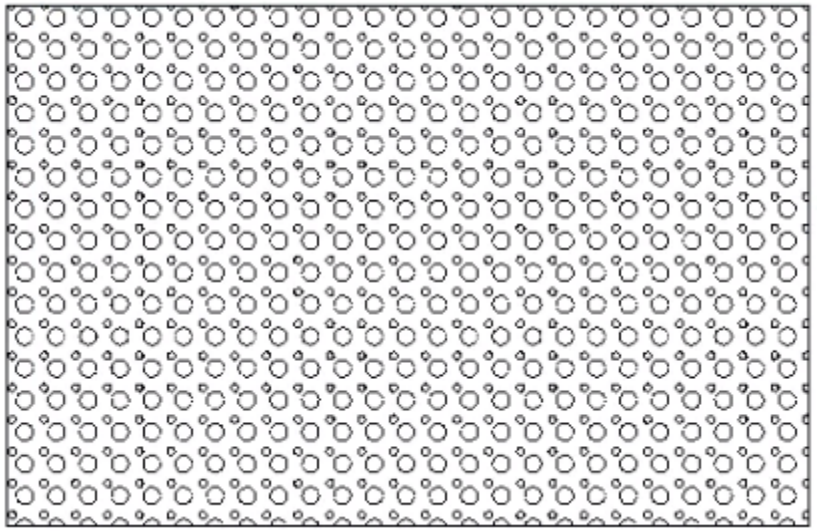

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Method 5
pyRevit
credit: Ehsan Iran-Nejad

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Pro

If you can draw it, you can hatch it…

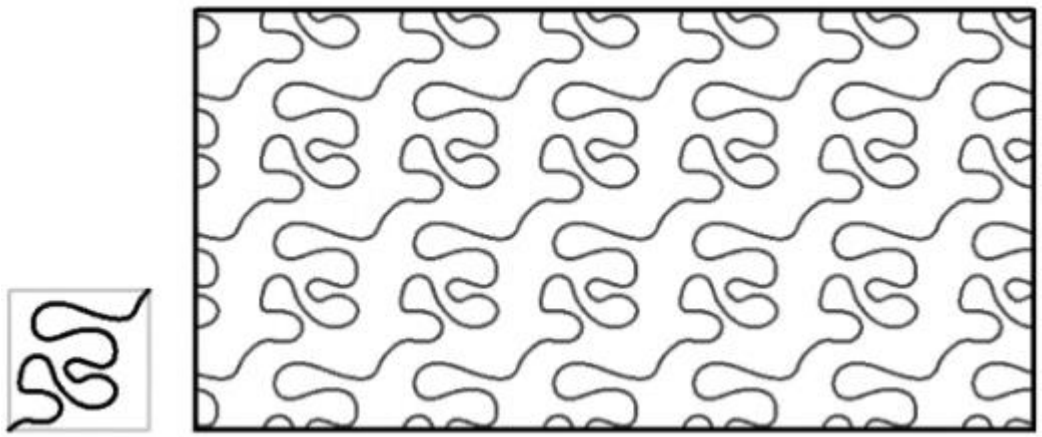
Con

Even if it’s a rectangle

It can be tricky to install on some builds

It can handle curves!

Look it up on Youtube for demonstrations



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Method 6
hatch22 / hatchkit
credit: mertens 3d / cadro

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Pro

Easy to use/install

Con

$$$$

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Links in Description

Template files

Brick pattern generator

drawhatch.vlx

getpat.lsp

pyRevit

Hatch22/Hatchkit

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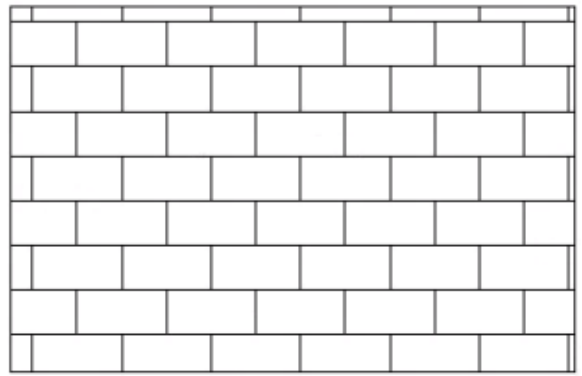

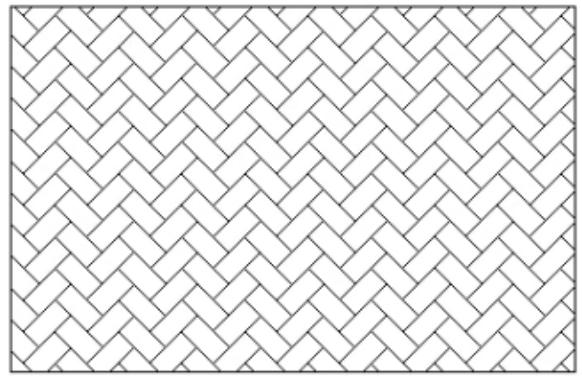

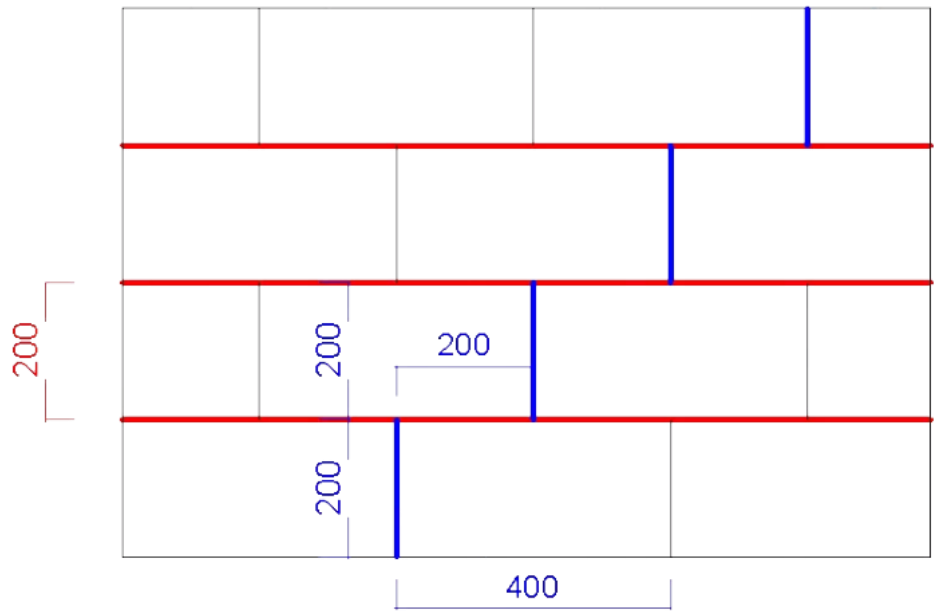

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90,0,0,200,200,200,-200