



JIAYU PASS

甘肃嘉峪关

Gansu, China

The world's great architecture

Ages 6+



6222
1511 PCS



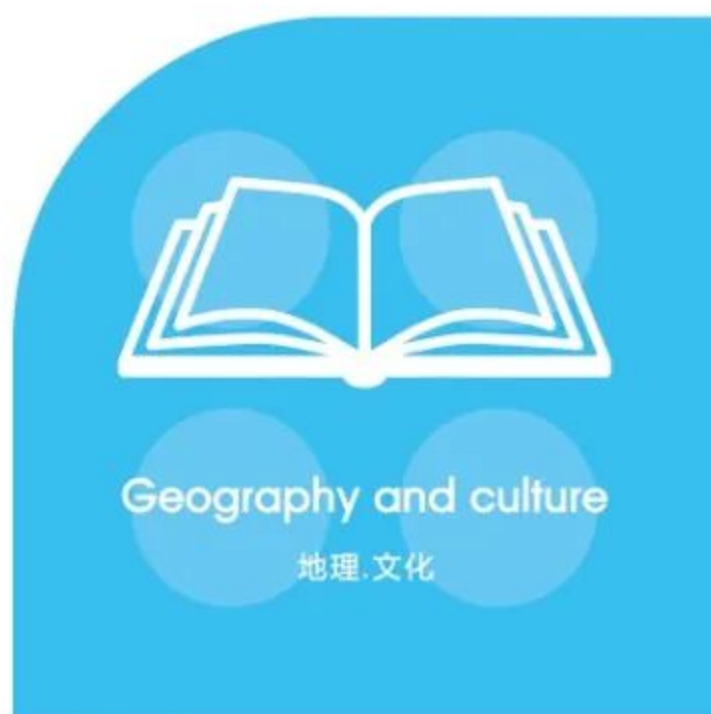
Architecture

It will be a city...

这将构成一座城市...

ABOUT THE PRODUCT

关于产品



ARCHITECTURE

WANGE The world's great architect since 1991

Jiayu Pass



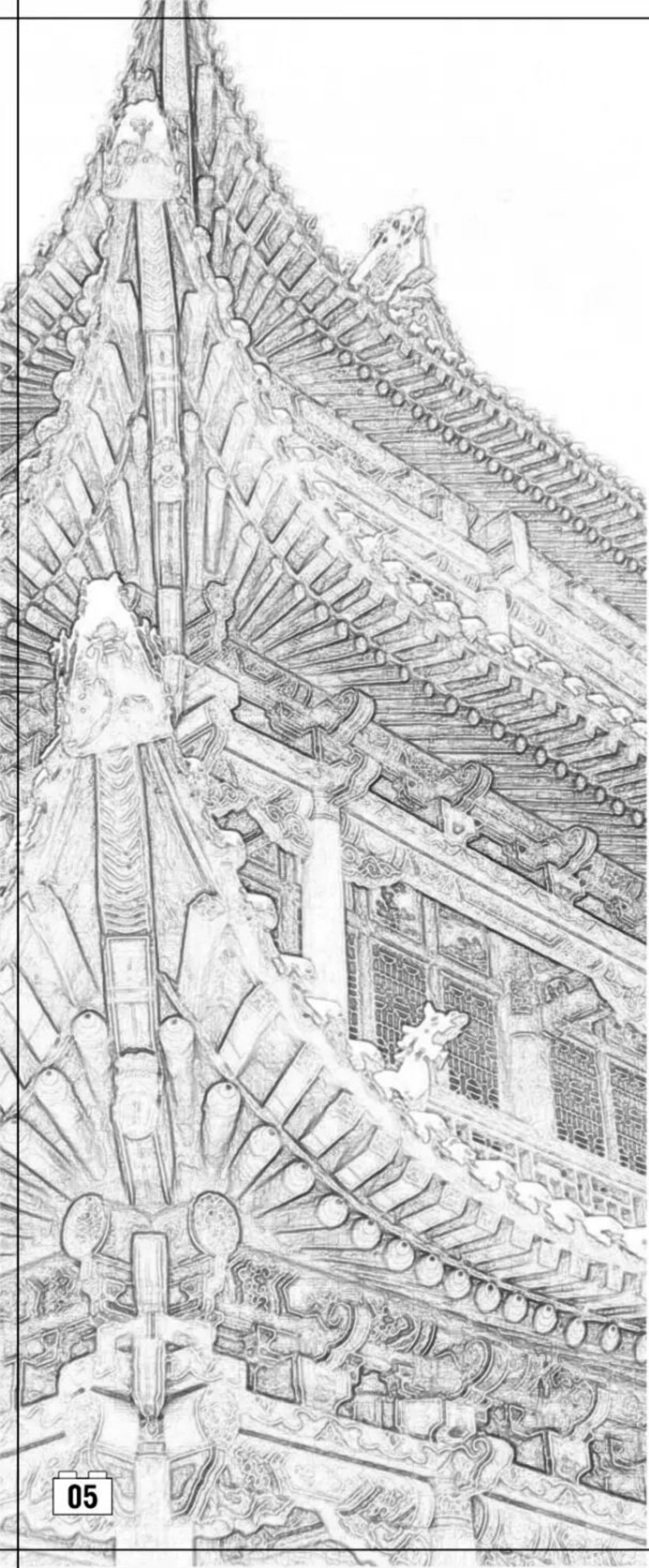
Geography and culture

地理·文化



The Hall of Supreme Harmony is the largest hall within the Forbidden City in Beijing, China. It is located at its central axis, behind the Gate of Supreme Harmony.





甘肃长城嘉峪关

Jiayu Pass ■

China

The contents of this chapter refer to the Wikipedia website.

本章内容参考维基百科网站，更多资讯可自行查阅。

The world's great architecture

About The Building



Jiayu Pass, is the first frontier fortress at the west end of the Ming dynasty Great Wall, near the city of Jiayuguan in Gansu province. Along with Juyong Pass and Shanhai Pass, it is one of the main passes of the Great Wall.

历史与文化

嘉峪关位于甘肃省嘉峪关市向西5公里处，是明长城西端的第一重关，也是古代“丝绸之路”的交通要冲。

嘉峪关关城，位于嘉峪关最狭窄的山谷中部，地势最高的嘉峪山上，城关两翼的城墙横穿沙漠戈壁。嘉峪关以地势险要，巍峨壮观著称于世，被称为“天下第一雄关”。与千里之外的“天下第一关”——山海关遥相呼应，闻名天下。



嘉峪关建于明太祖洪武五年（1372年），距今已有649年的历史。

明孝宗弘治八年（1495年），修建嘉峪关关楼。

明武宗正德元年（1506年），修建了内城光化楼和柔远楼，同时，还修建了官厅、仓库等附属建筑物。

明世宗嘉靖十八年（1539年），在关城上增修敌楼、角楼等，并在关南关北修筑两翼长城和烽火台等。

原敦煌市、瓜州县、肃北县、阿克塞县拟设立为地级敦煌市。肃州区、玉门市、金塔县、嘉峪关拟设立为地级酒泉市。

现在关城以内城为主，周长640米，面积2.5万平方米，城高10.7米，以黄土夯筑而成，西侧以99999块砖包墙。东西城垣开门，东为光化门，西为柔远门。均筑瓮城。嘉峪关内城墙上还建有箭楼、敌楼、角楼、阁楼、闸门楼共十四座，是长城众多关城中保存最为完整的一座。

Design and subsequent history

The pass is located at the narrowest point of the western section of the Hexi Corridor, 6 kilometres (3.7 mi) southwest of the city of Jiayuguan in Gansu. The structure lies between two hills, one of which is called Jiayuguan Pass. It was built near an oasis that was then on the extreme western edge of China.

The pass is trapezoid-shaped with a perimeter of 733 metres (2,405 ft) and an area of more than 33,500 square metres (361,000 sq ft). The length of the city wall is 733 metres (2,405 ft) and the height is 11 metres (36 ft).



There are two gates: one on the east side of the pass and the other on the west side. On each gate there is a building. An inscription of "Jiayuguan" in Chinese is written on a tablet at the building at the west gate. The south and north sides of the pass are connected to the Great Wall. There is a turret on each corner of the pass. On the north side, inside the two gates, there are wide roads leading to the top of the pass. Jiayuguan consisted of three defense lines: an inner city, an outer city, and a moat. When famous traveler Mildred Cable first visited Jiayuguan in 1923, she described it as To the north of the central arch was a turreted watch-tower, and from it the long line of the wall dipped into a valley, climbed a hill and vanished over its summit.

Creation and thinking
创作·思考

Drawing Design

手绘设计



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Creation and thinking
创作·思考

Drawing Design

手绘设计

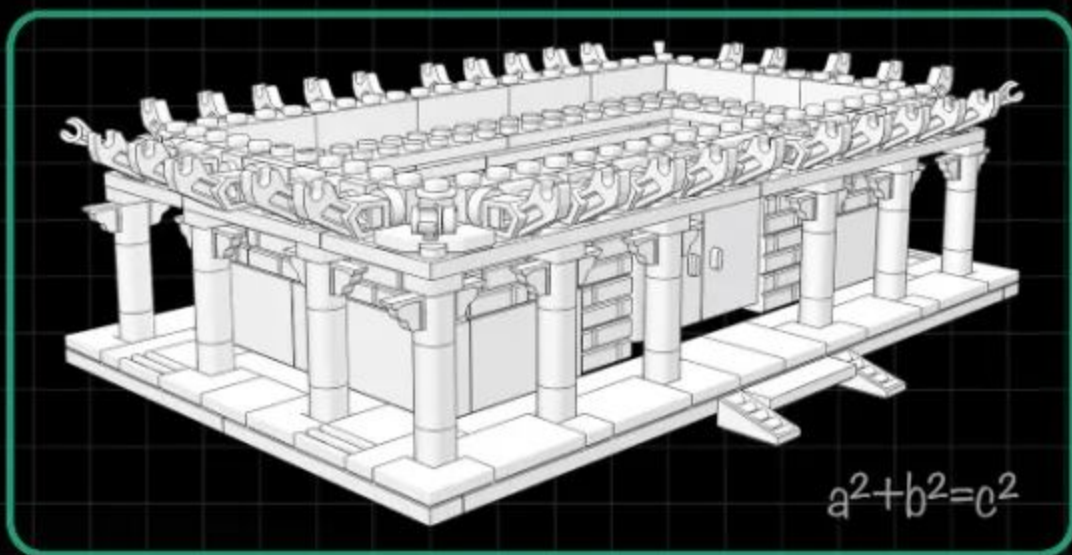


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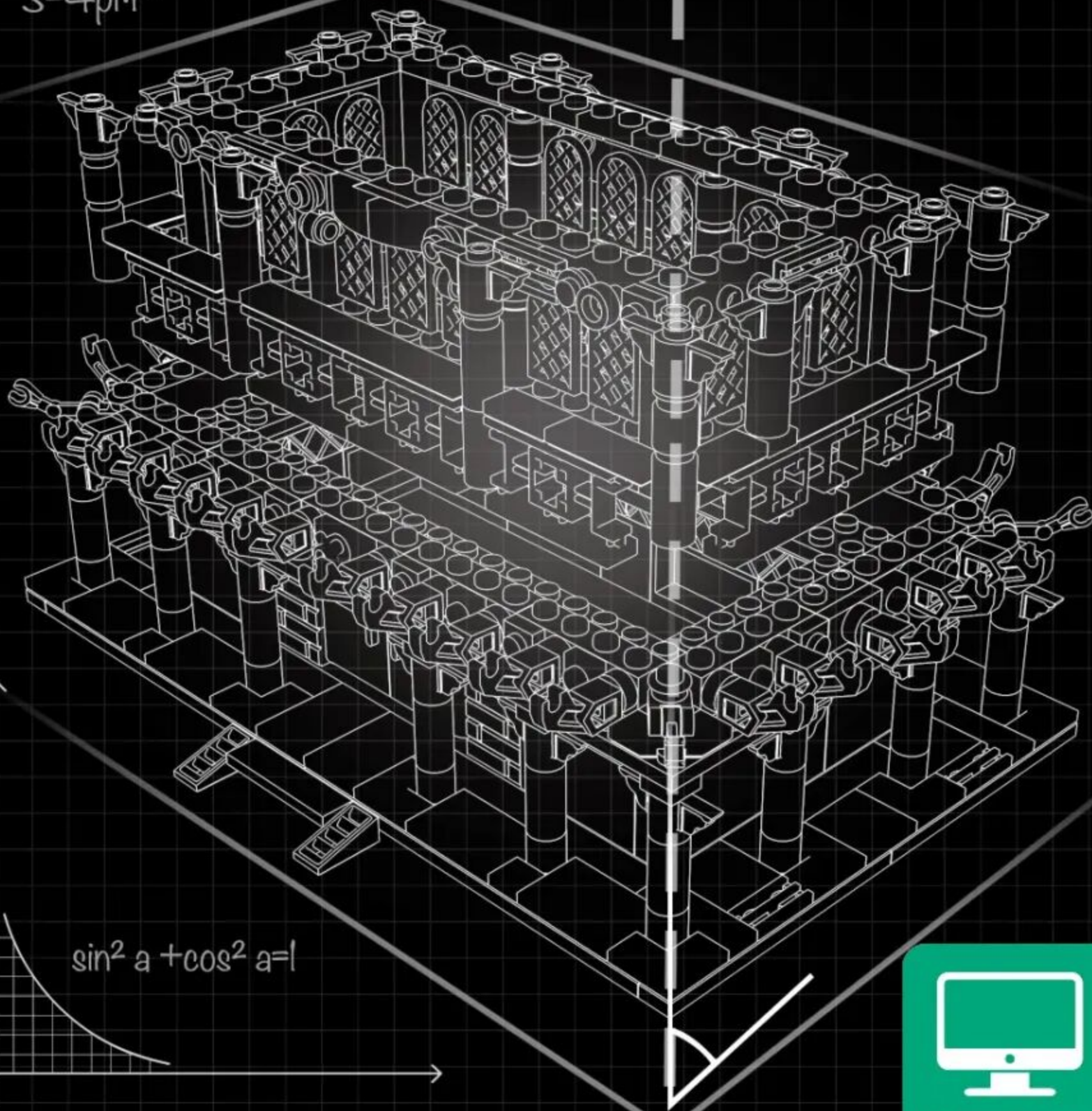
Design Points

结构难点

Angle calculation
角度的计算



$$S = 4\pi \cdot r^2$$



Creation and thinking

创作·思考

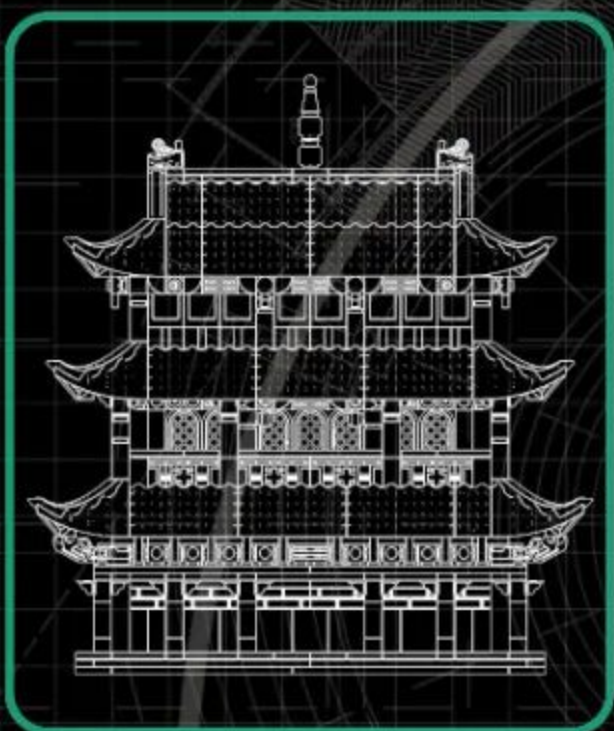
Force Balance

受力平衡

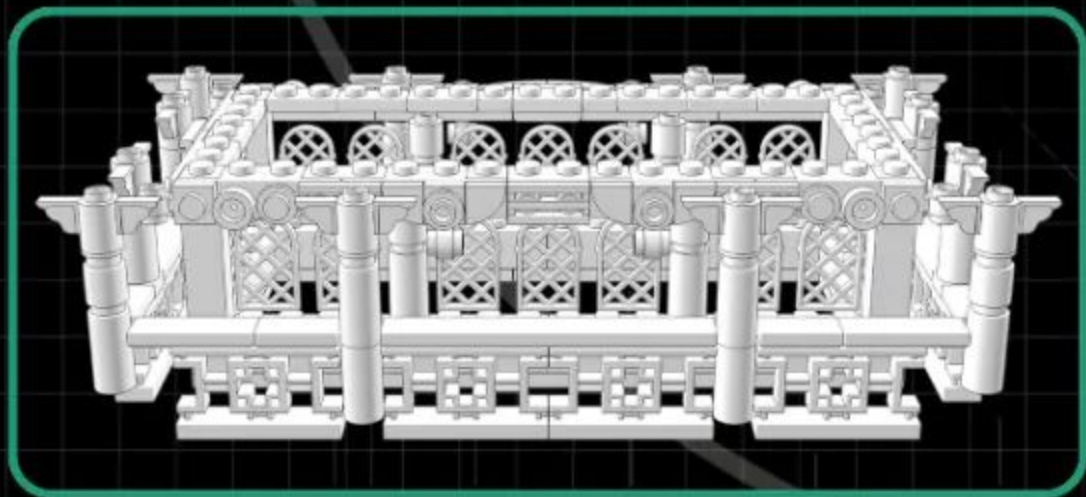
Scene Matching

场景搭配

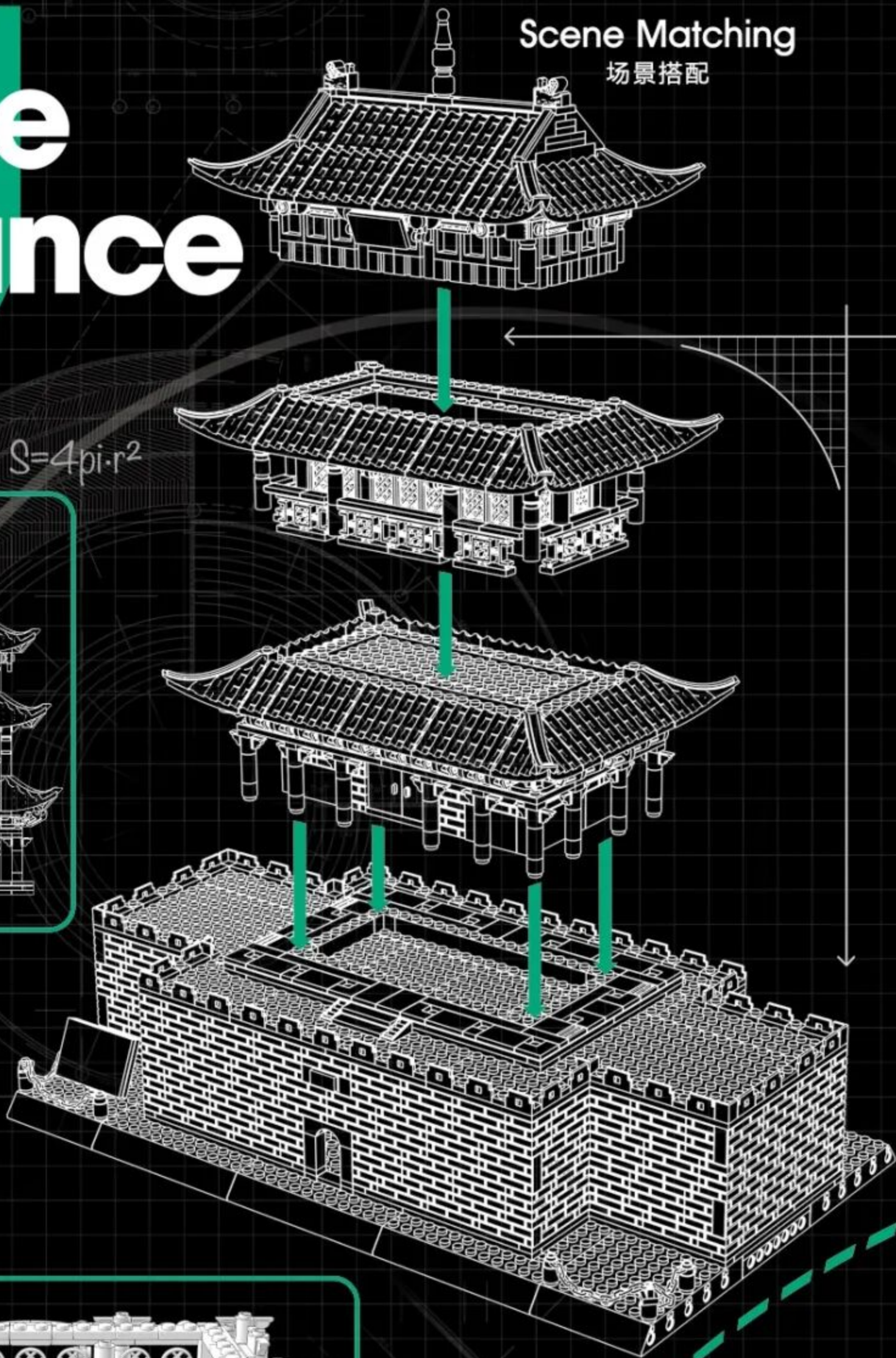
$$S=4\pi r^2$$



$$F = G \frac{m_1 m_2}{d^2}$$



$$a^2 + b^2 = c^2$$



Creation and thinking

创作·思考

Special parts

特殊零件的开发利用

$$S=4\pi \cdot r^2$$

WG1289

雀替柱



$$a^2+b^2=c^2$$

WG1267

4倍窗



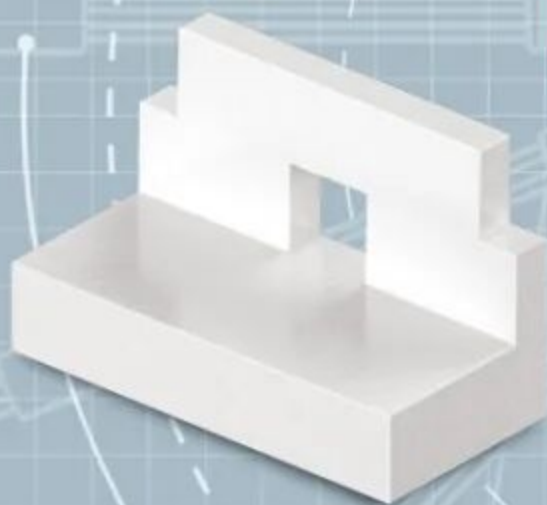
WG1290

雀替



WG1279

方孔小短椅



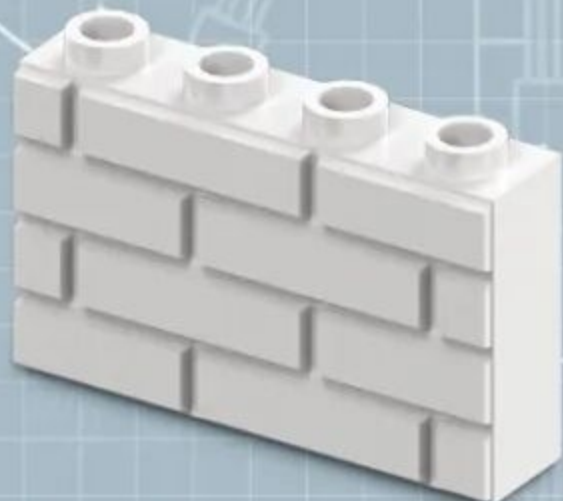
WG1222

中式栏杆



WG1284

2孔龙头砖



$$\sin^2 a + \cos^2 a = 1$$



features and functions

特点.功能

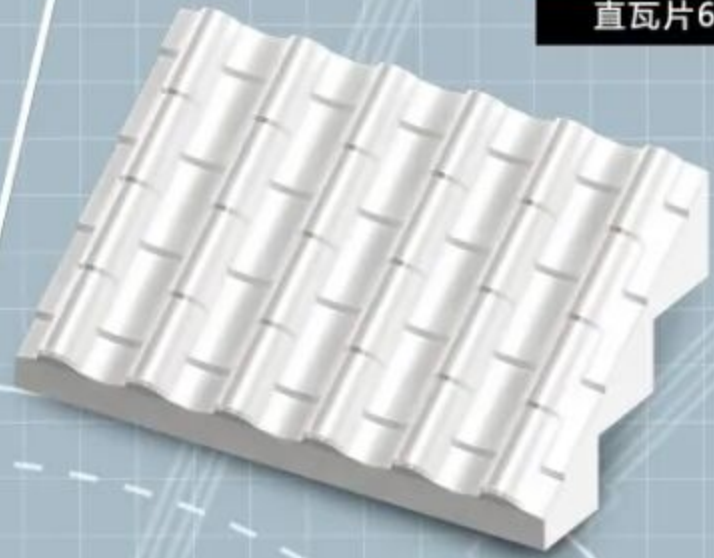
Special parts

特殊零件的开发利用

$$S=4\pi \cdot r^2$$

WG0534

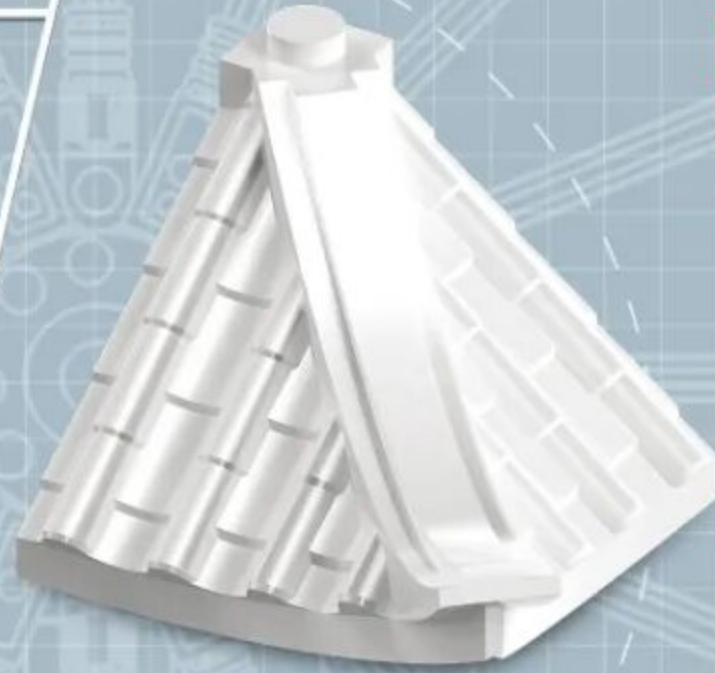
直瓦片6孔



$$a^2+b^2=c^2$$

WG0533

角瓦片



WG1317

直角墙砖



WG0532

直瓦片2孔



WG1284

2孔龙头砖



$$\sin^2 a + \cos^2 a = 1$$



features and function

特点.功能

Main Color Matching

配色方案



Pantone 7550C



Pantone Black 6C



Pantone 540C



Pantone 655C



Pantone 477C



Pantone 2407C



Pantone 7500C



Pantone 3435C



Pantone 7427C



Pantone 439C



Pantone 2312C



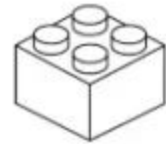
Pantone 2310C



Pantone 431C



Pantone Cool Gray 6C



White



Color matching

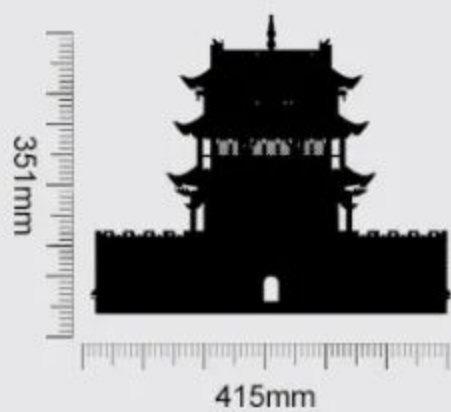
Adopting 15 main colors, beige, brown and gray as the main color, the more reasonable and bold color matching on the original building, making the product more atmospheric and the whole design is more reasonable.

Jiayu Pass

甘肃长城嘉峪关



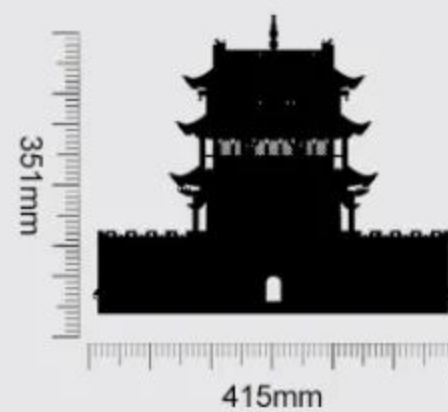
Front



Left



Back



Product Size:415X241x351mm

Creative Ability



Family Interaction



Observation Ability



Thinking Ability

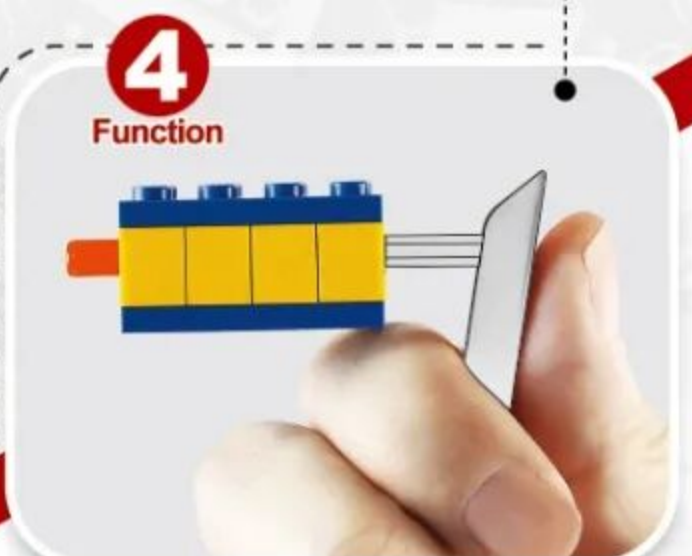
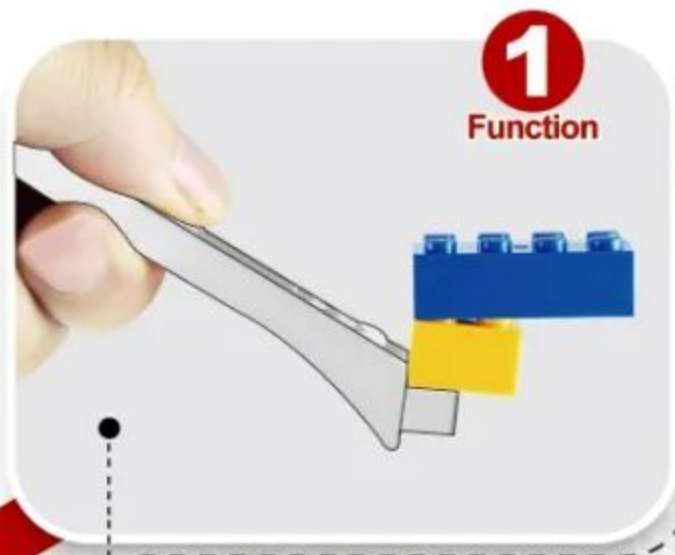


Practical Ability



Instructions For Use

积木起件器使用说明
Brickseparator



4 ways to make installation easier
让安装更简单



- First open the product packaging according to the instructions.

按指导用正确方式拆解产品外包装。



- Summarize all parts to count the number of familiar accessories.

对照说明书清单确认积木包数量与积木数量。



- Arranging all accessories by color helps to quickly install the product.

把确认好的积木以类型、颜色进行分类排好以便安装。



- Carefully install the product and learn about building.

按说明书步骤拼装并完成你的积木模型。



1:1 Physical Reference Table

十字棒配件1:1尺寸参照表



Instructions For Use

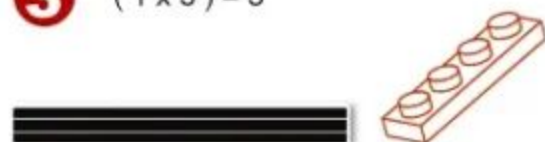
让安装更简单



2 (1x2)=2



3 (1x3)=3



4 (1x4)=4



5 (1x5)=5



6 (1x6)=6



7 (1x7)=7



8 (1x8)=8



9 (1x9)=9



10 (1x10)=10

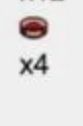
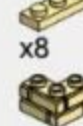
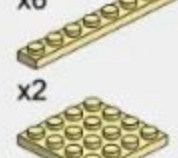
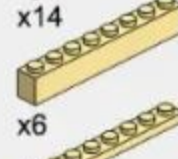
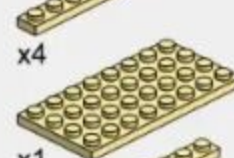
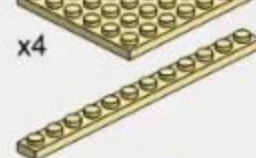
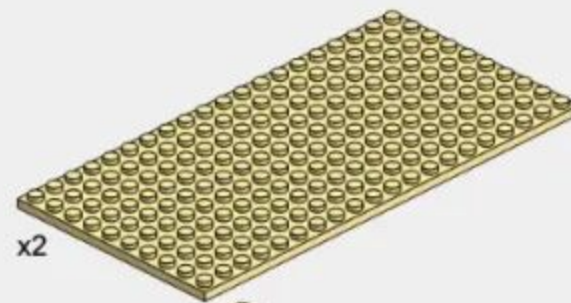


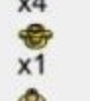
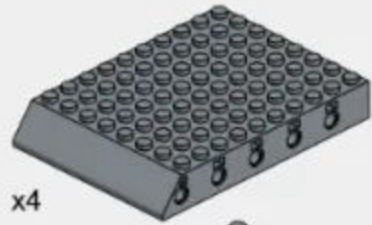
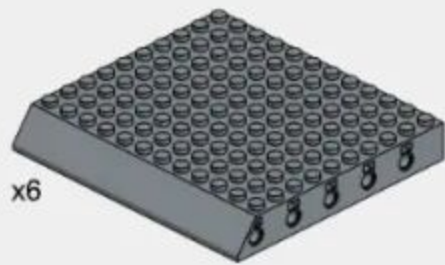
12 (1x12)=12











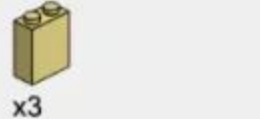
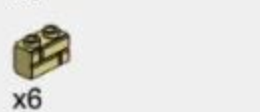


16 (1x16)=16




















-  x8
-  x2
-  x4
-  x1
-  x10
-  x10
-  x2
-  x2
-  x4
-  x8
-  x3
-  x6

-  x4
-  x2
-  x4
-  x2
-  x12
-  x2
-  x4
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-  x4
-  x14
-  x56
- x16
- x12
- x2

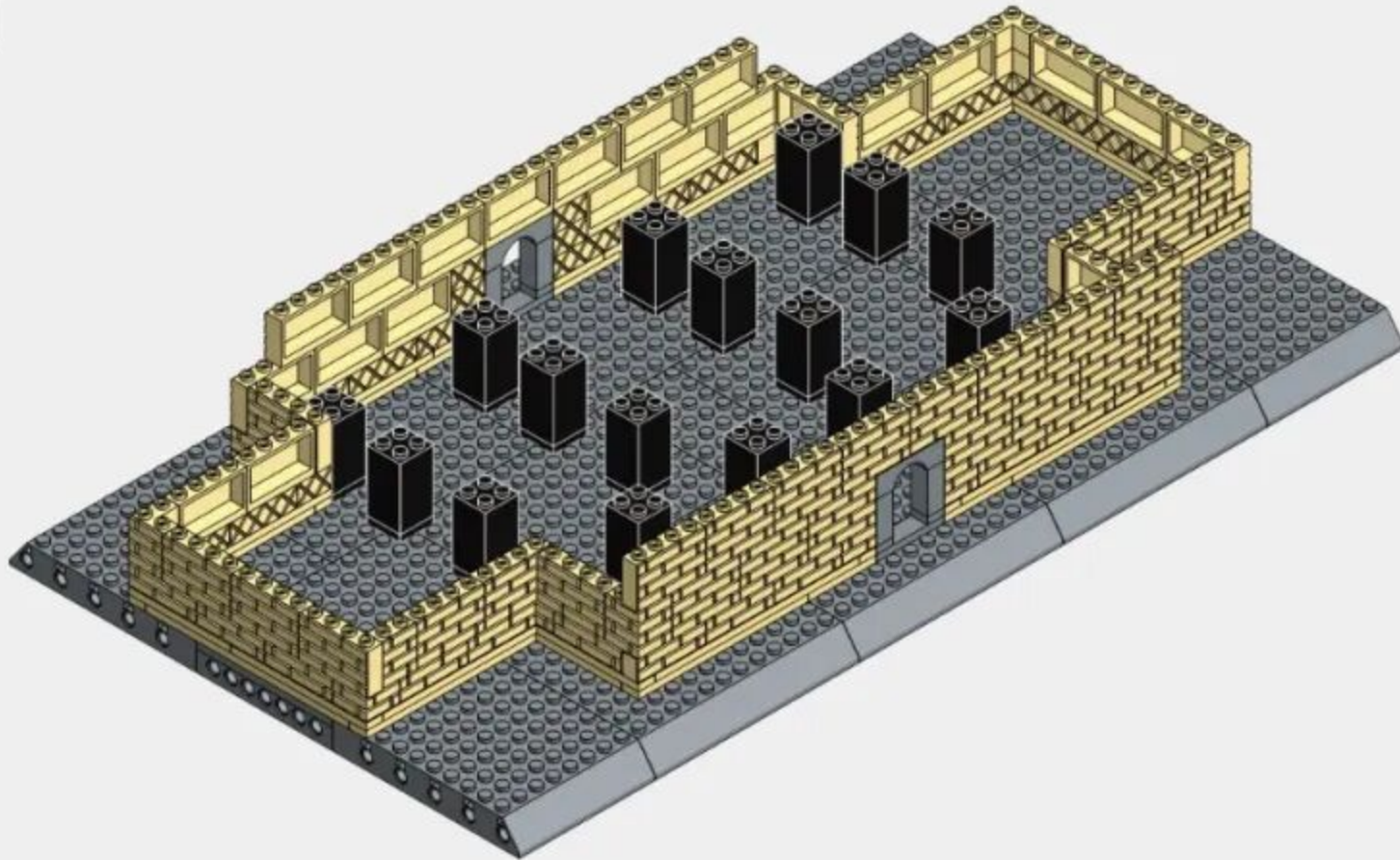
-  x2
-  x7
-  x1
-  x1
-  x6
-  x4
-  x4
-  x20
-  x1
-  x4
-  x2
-  x12
-  x4
- x6
- x12
- x4
- x4
- x18

-  x2
-  x2
-  x2
-  x3
-  x2
-  x2
-  x2
-  x2
-  x2
-  x2
-  x4
-  x6
-  x4
- x28
- x4

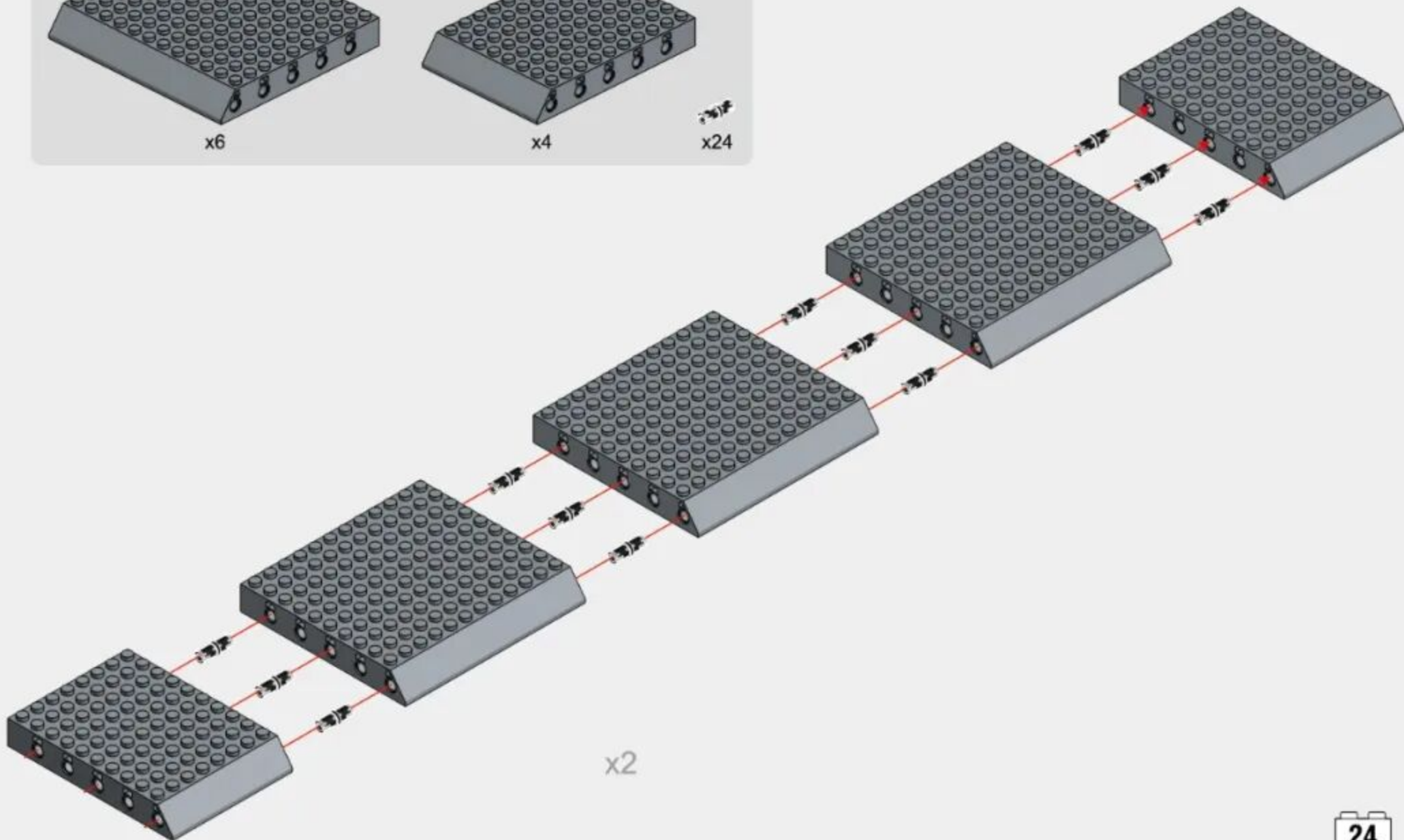
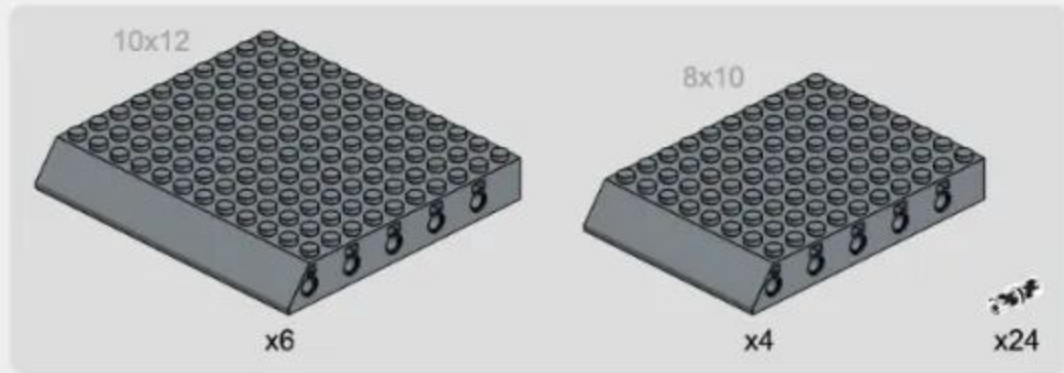
-  x1
-  x1
-  x20
-  x2
-  x1
-  x4
-  x4
-  x1
-  x1



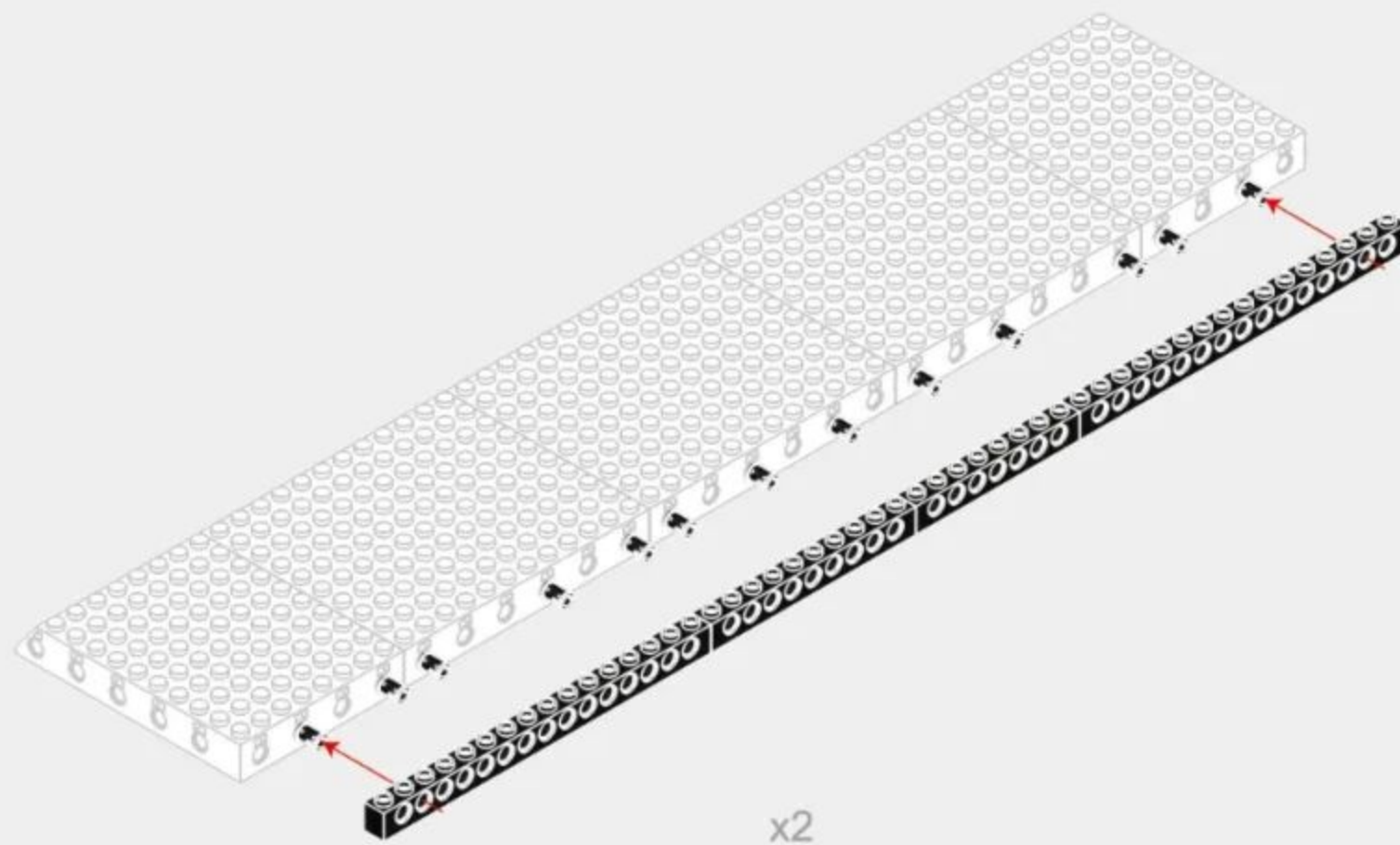
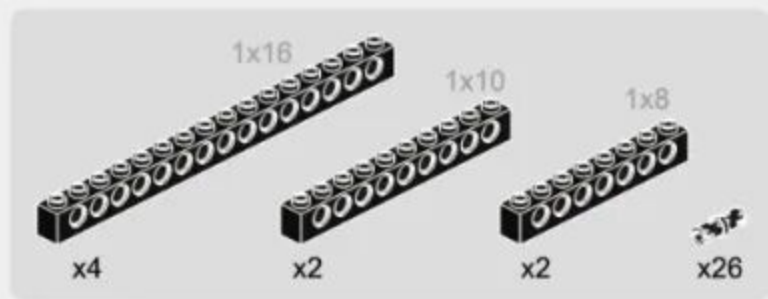
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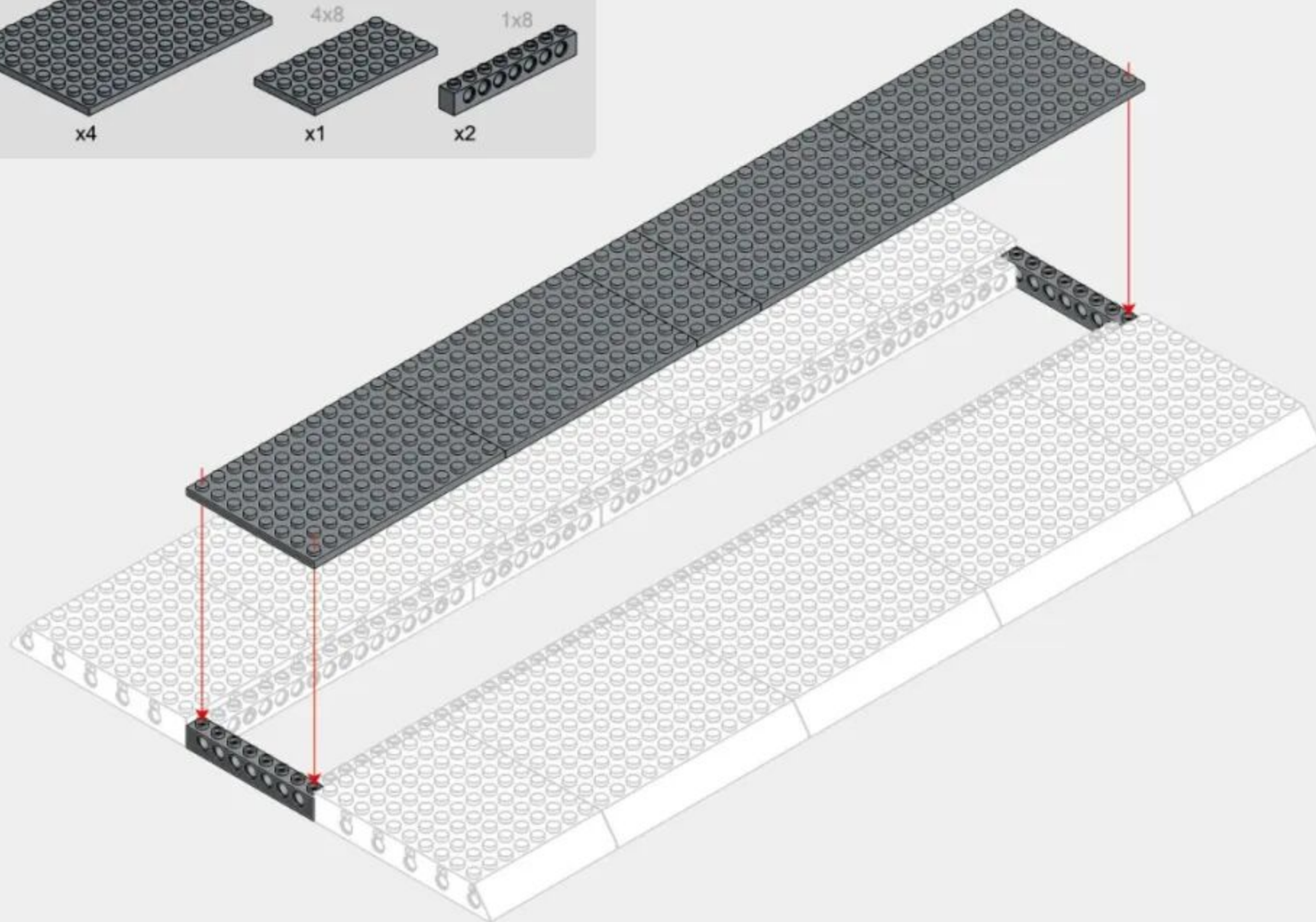
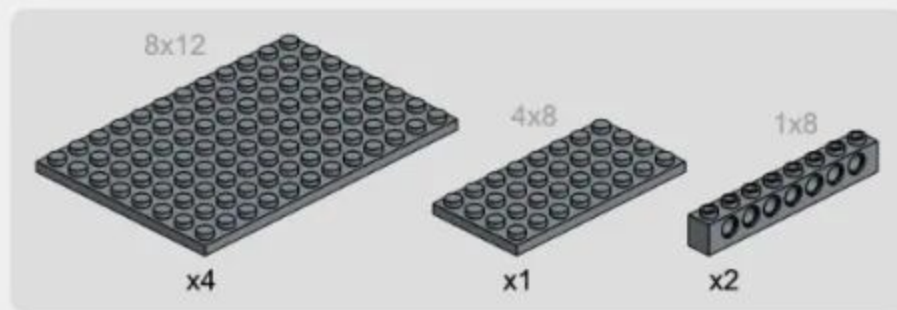
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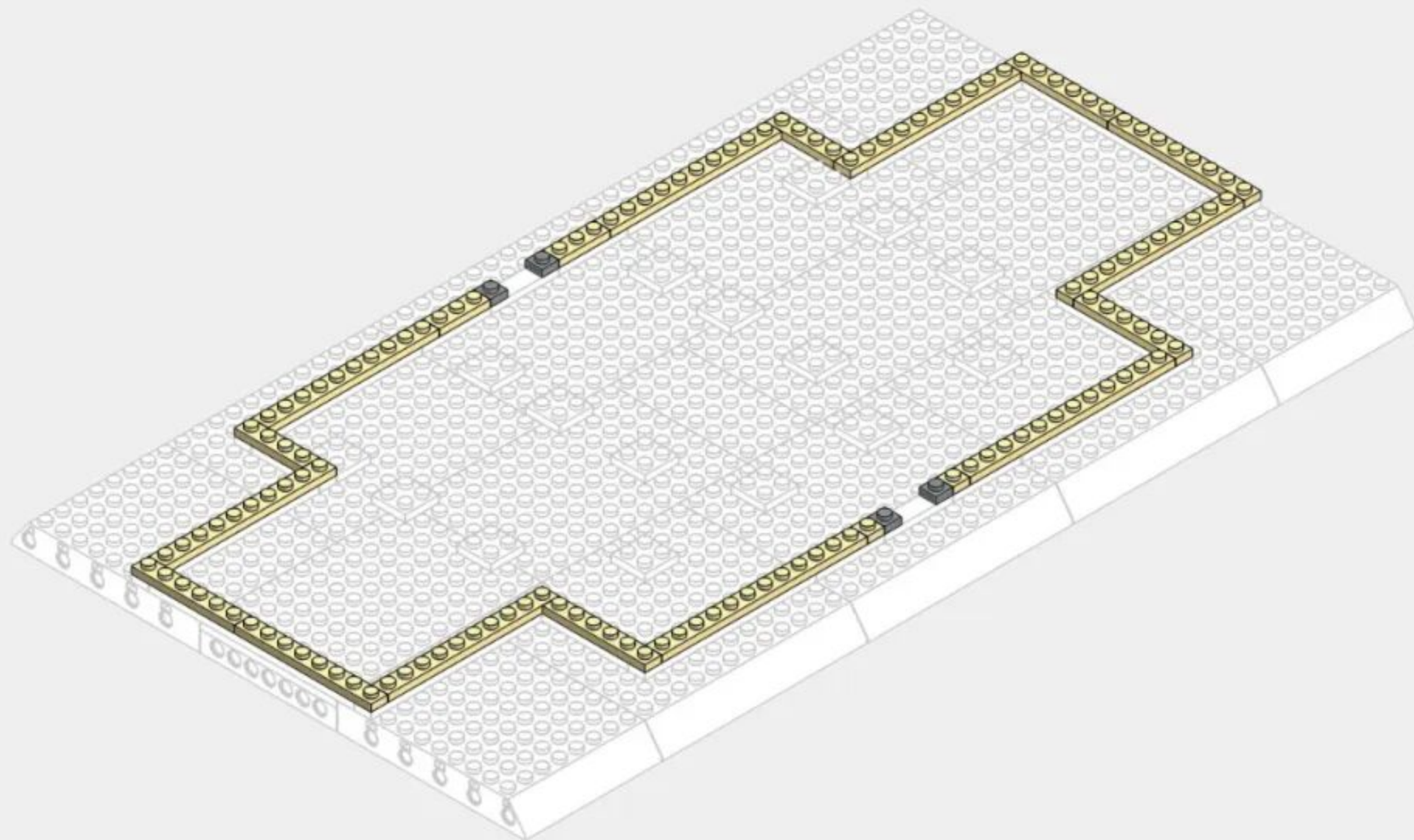
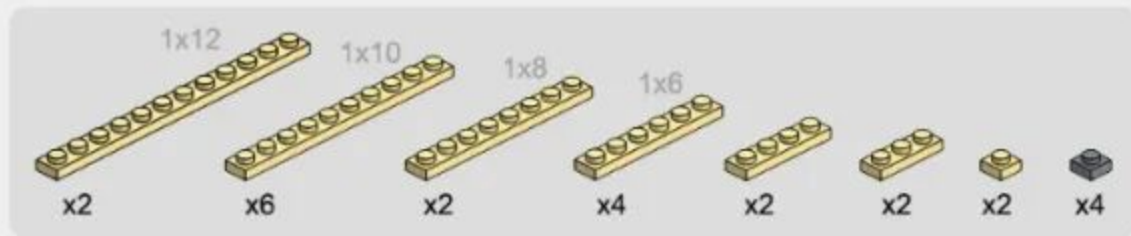
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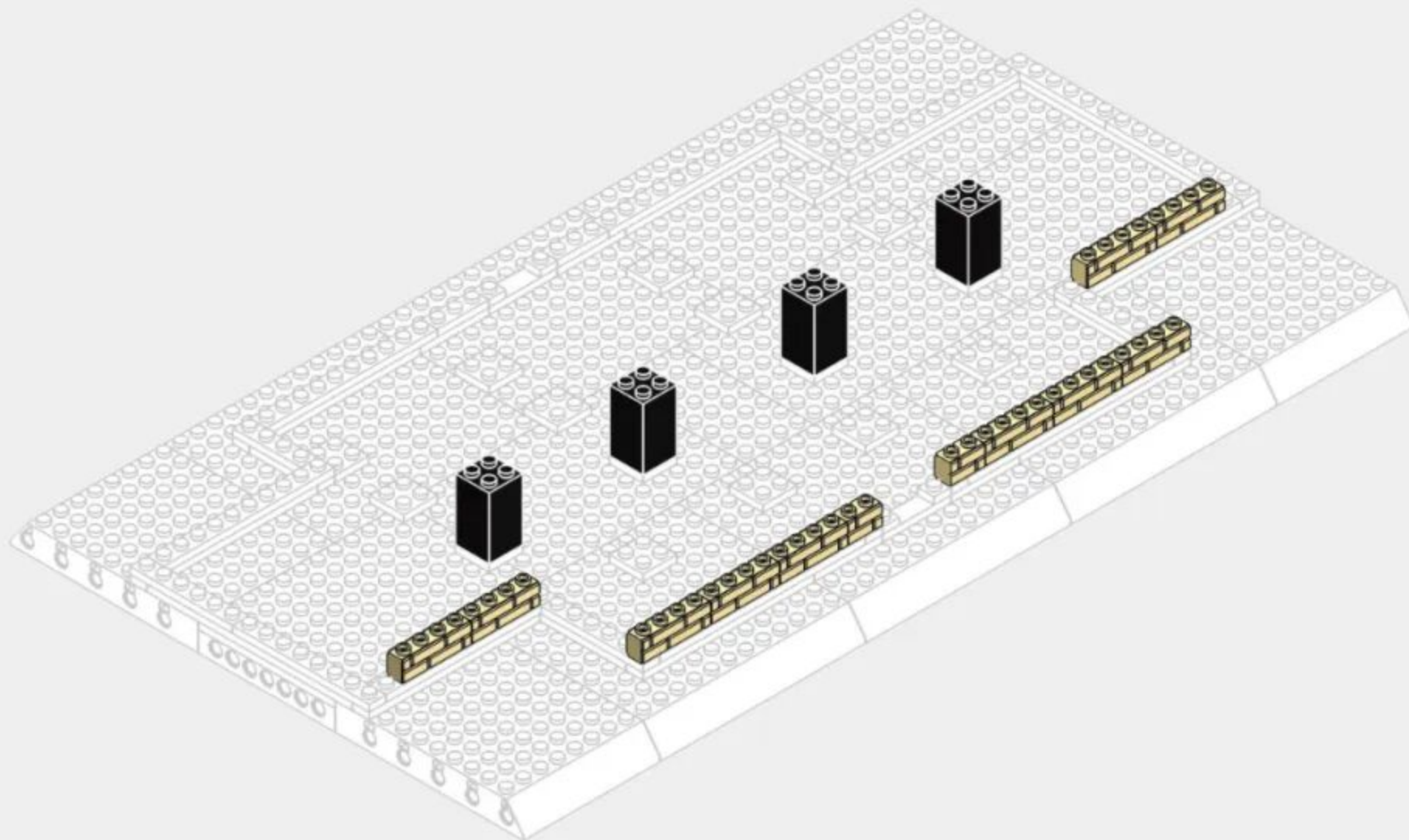
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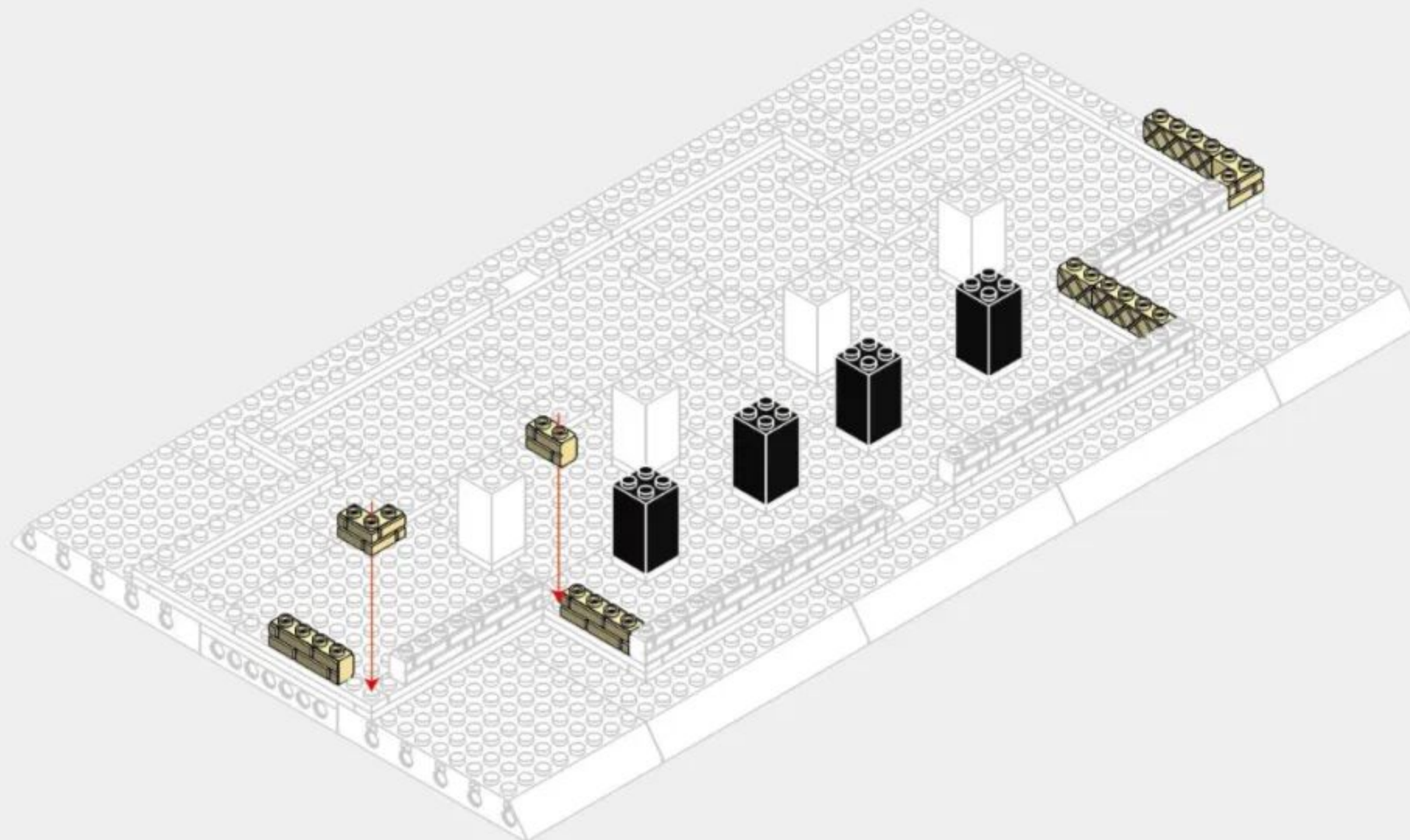
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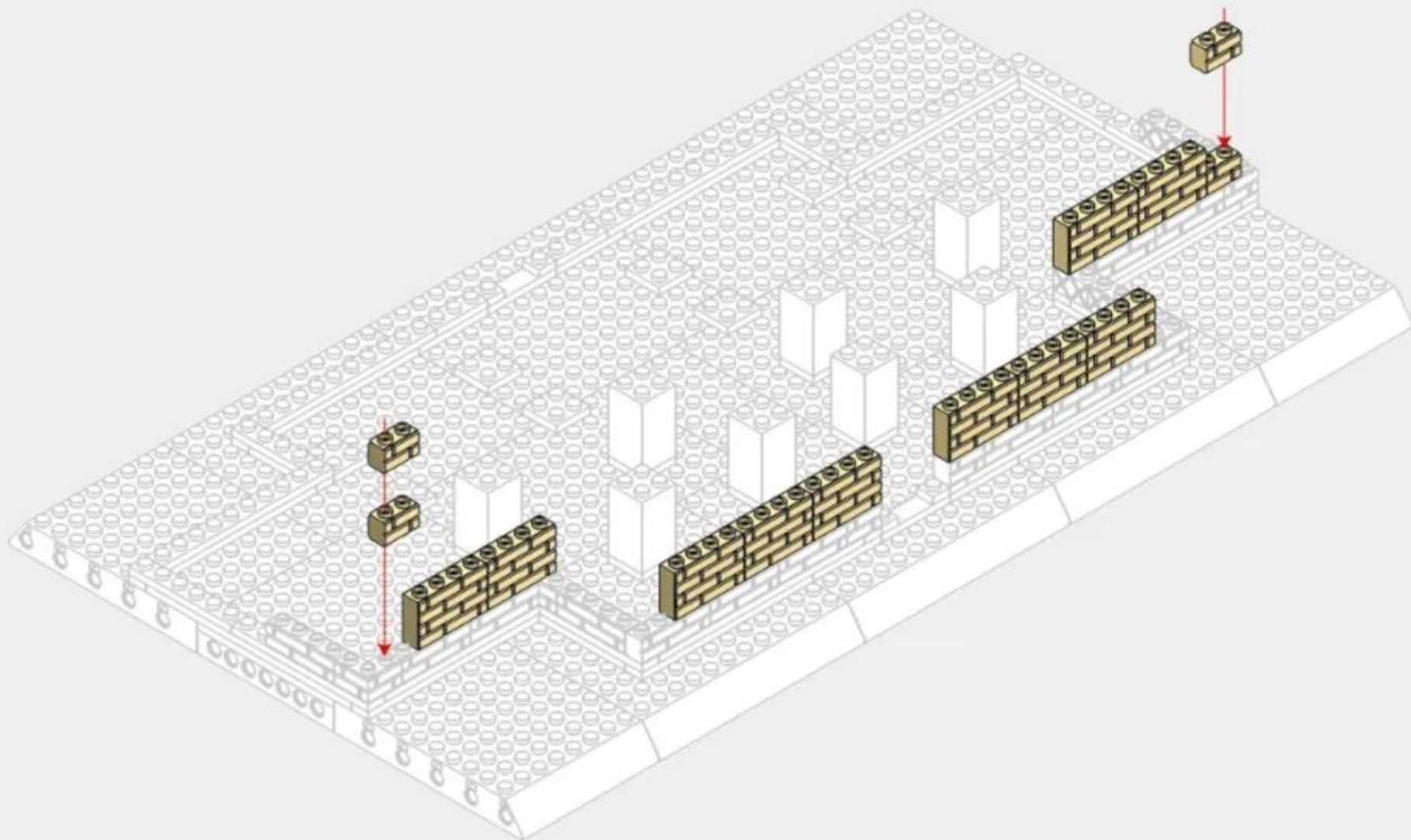
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1-7



1-8



1-9



x4



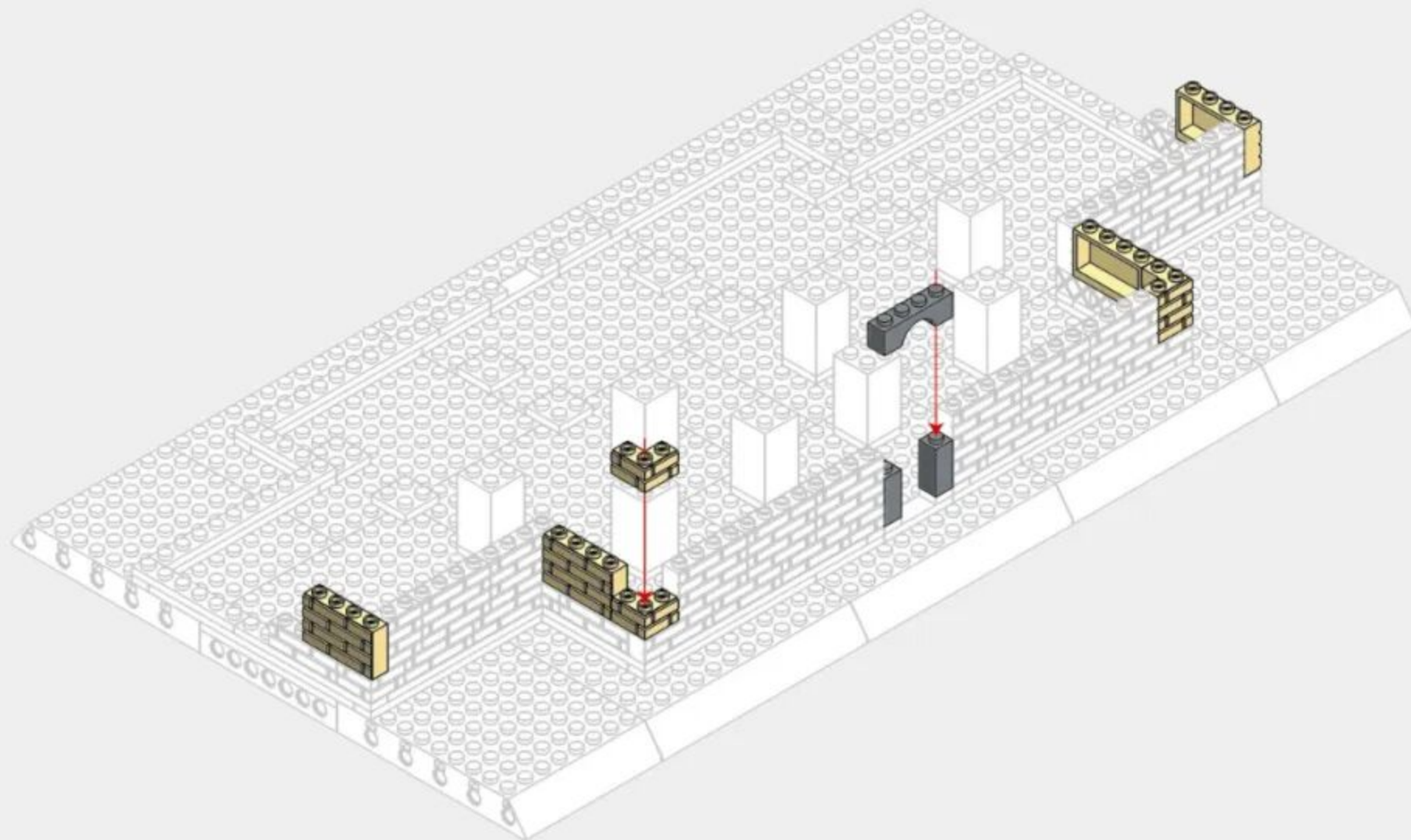
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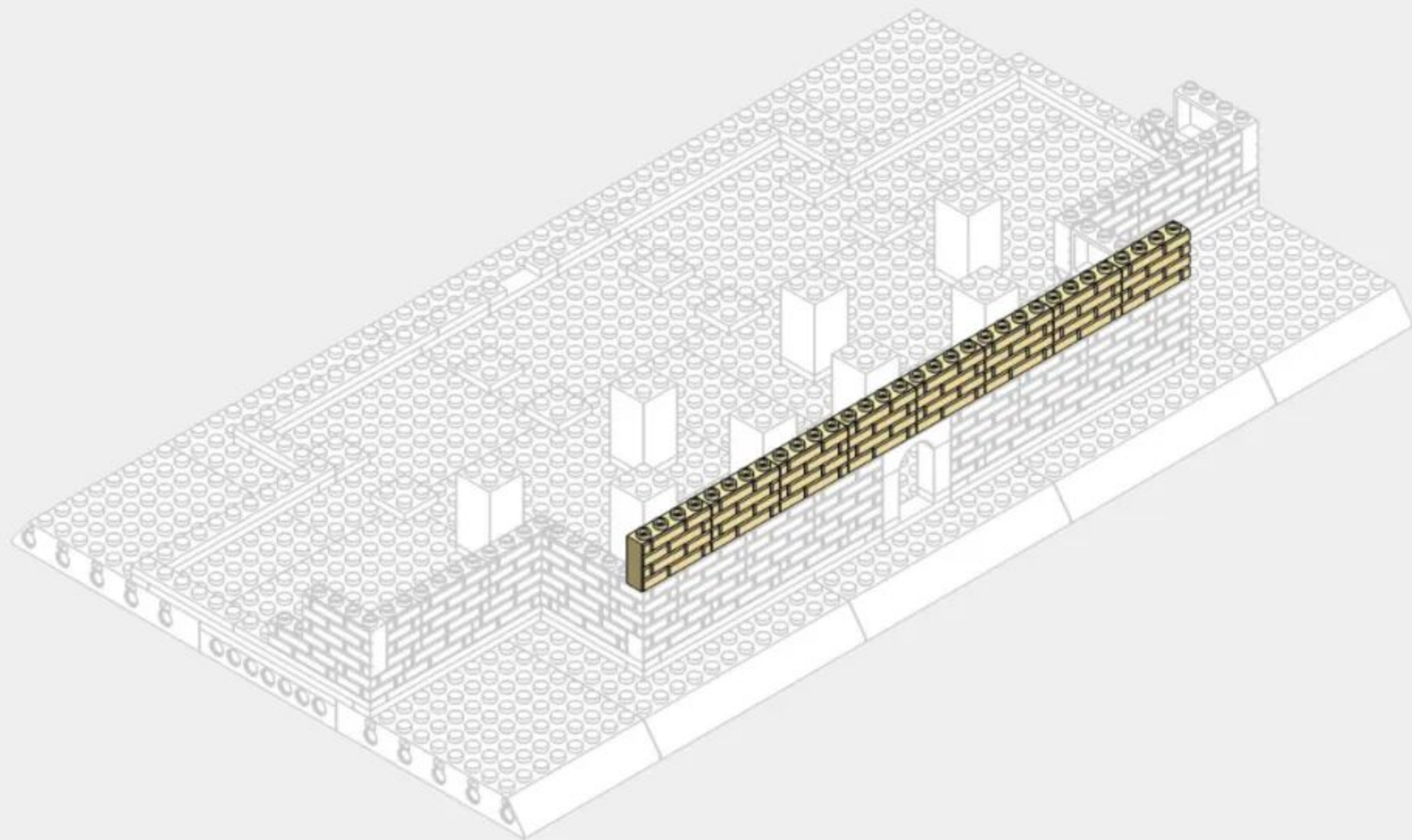
x2



x4



1-10



1-11



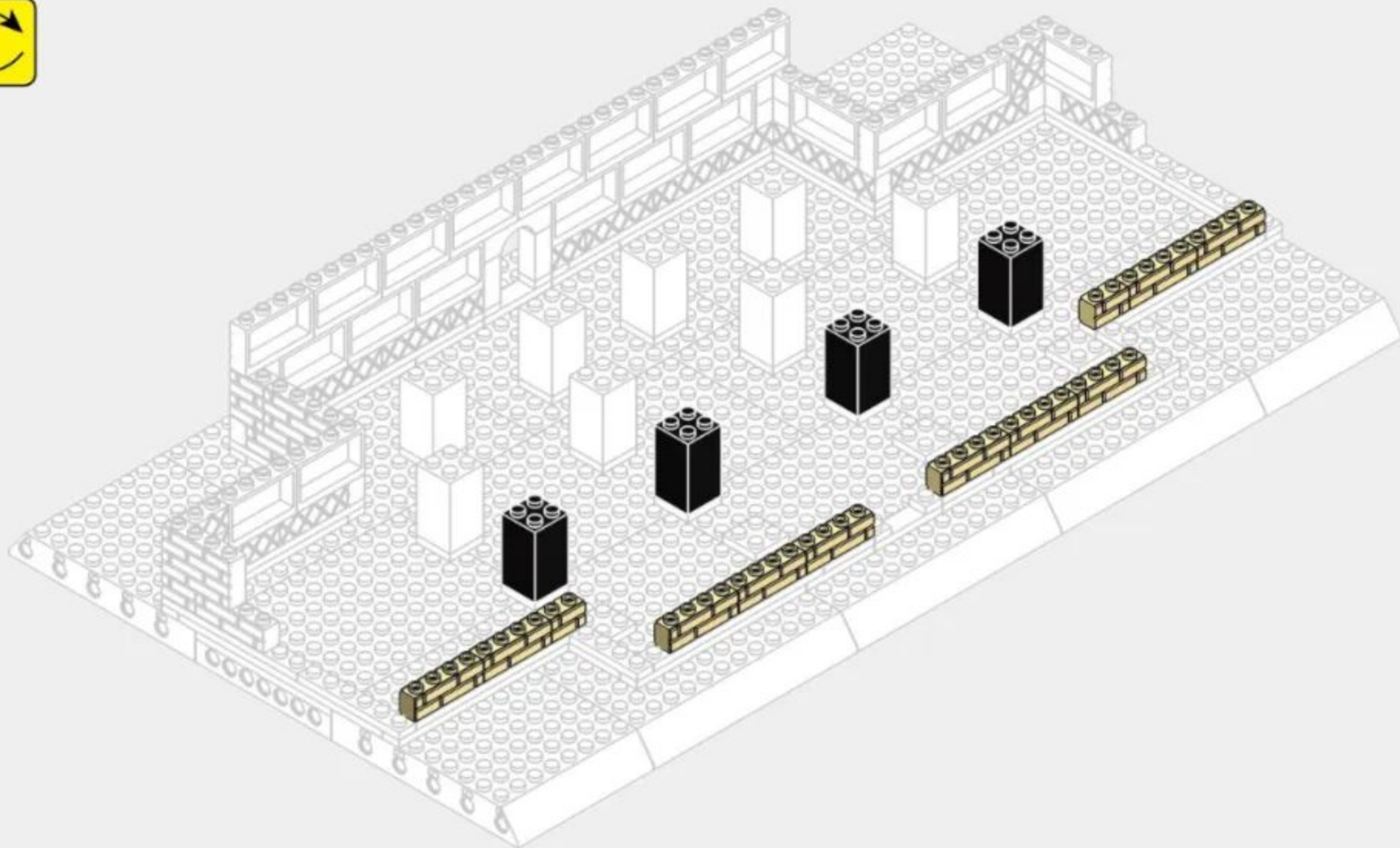
x4



x10



x2



1-12



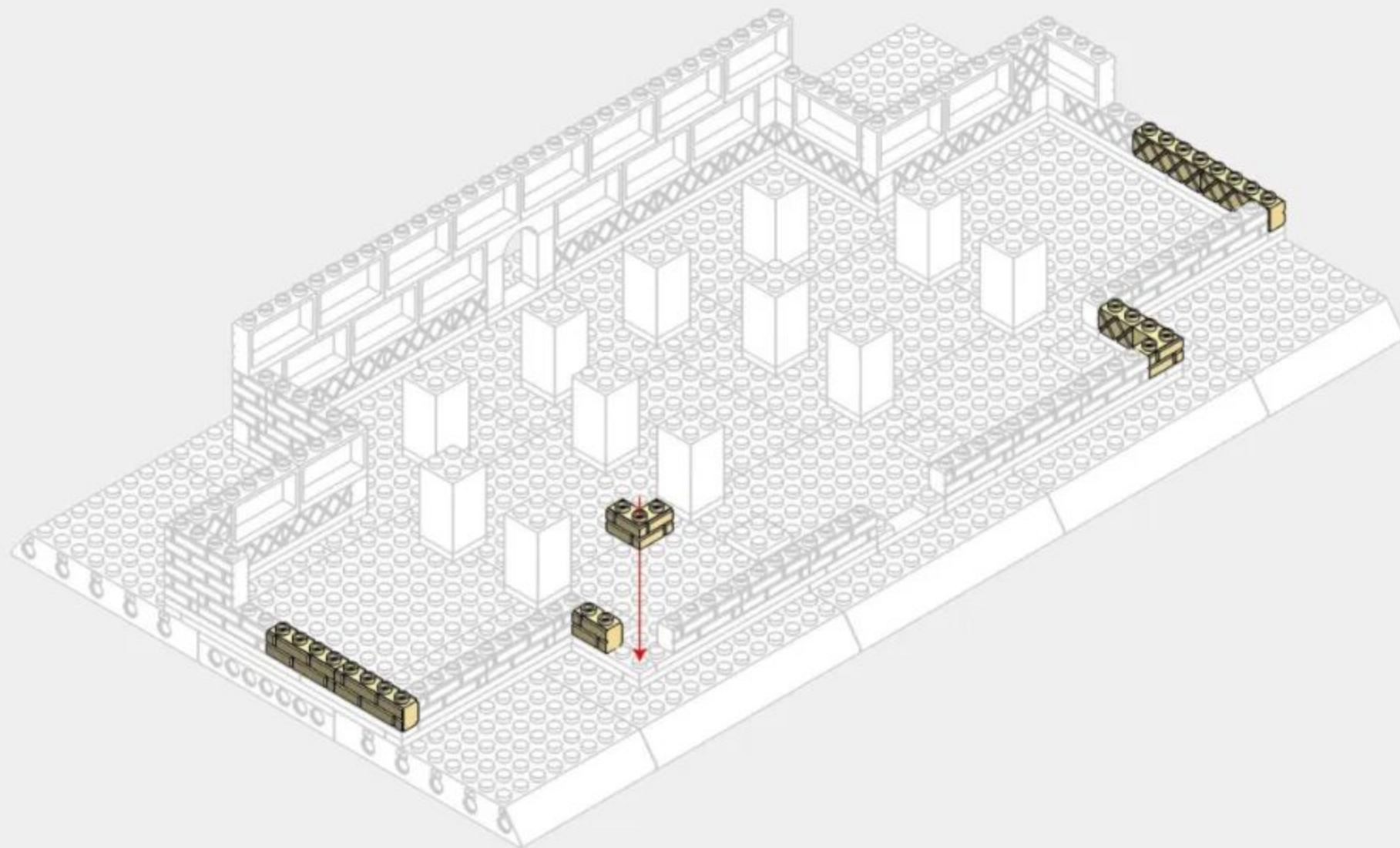
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x2



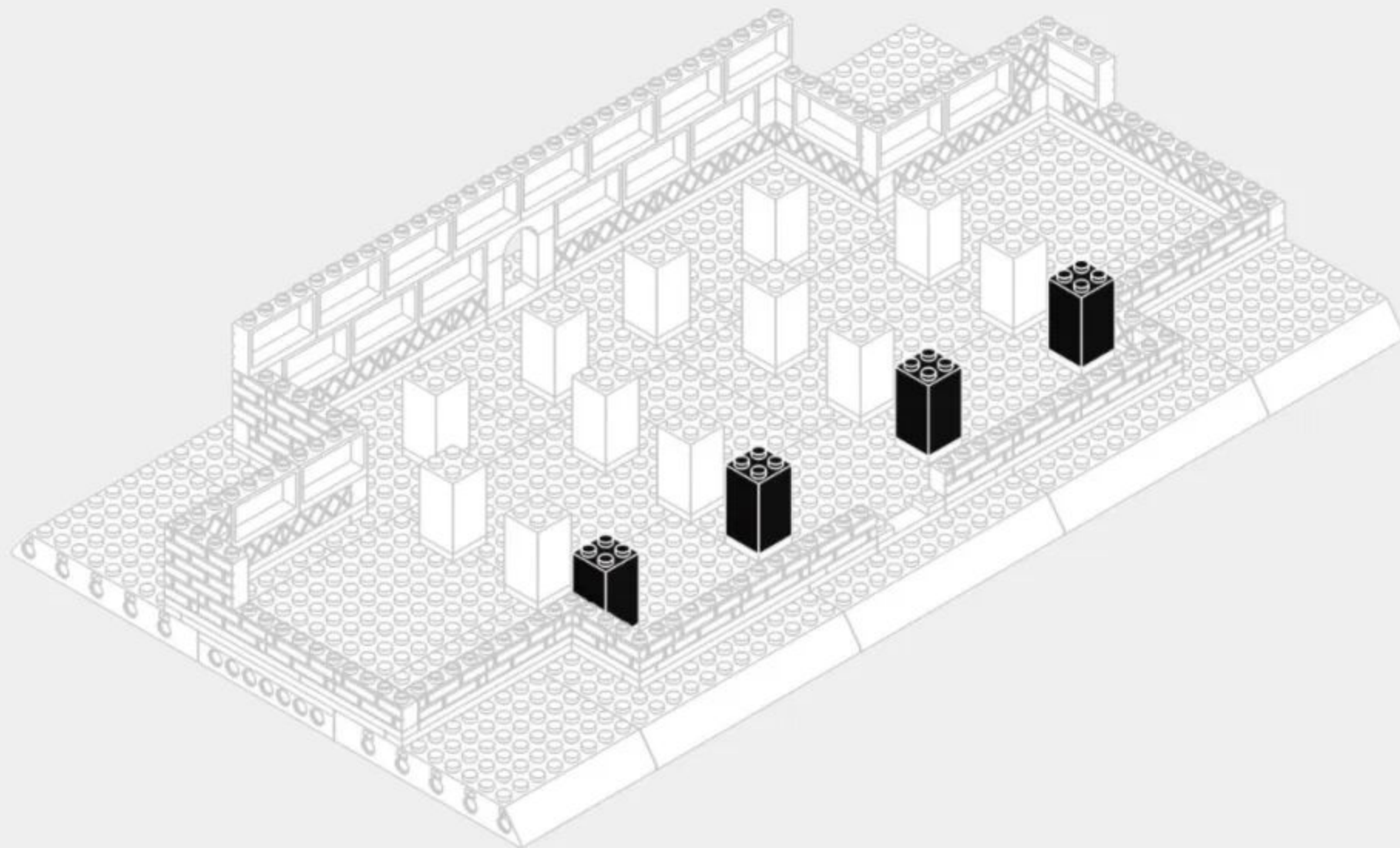
x2



1-13



x4



1-14



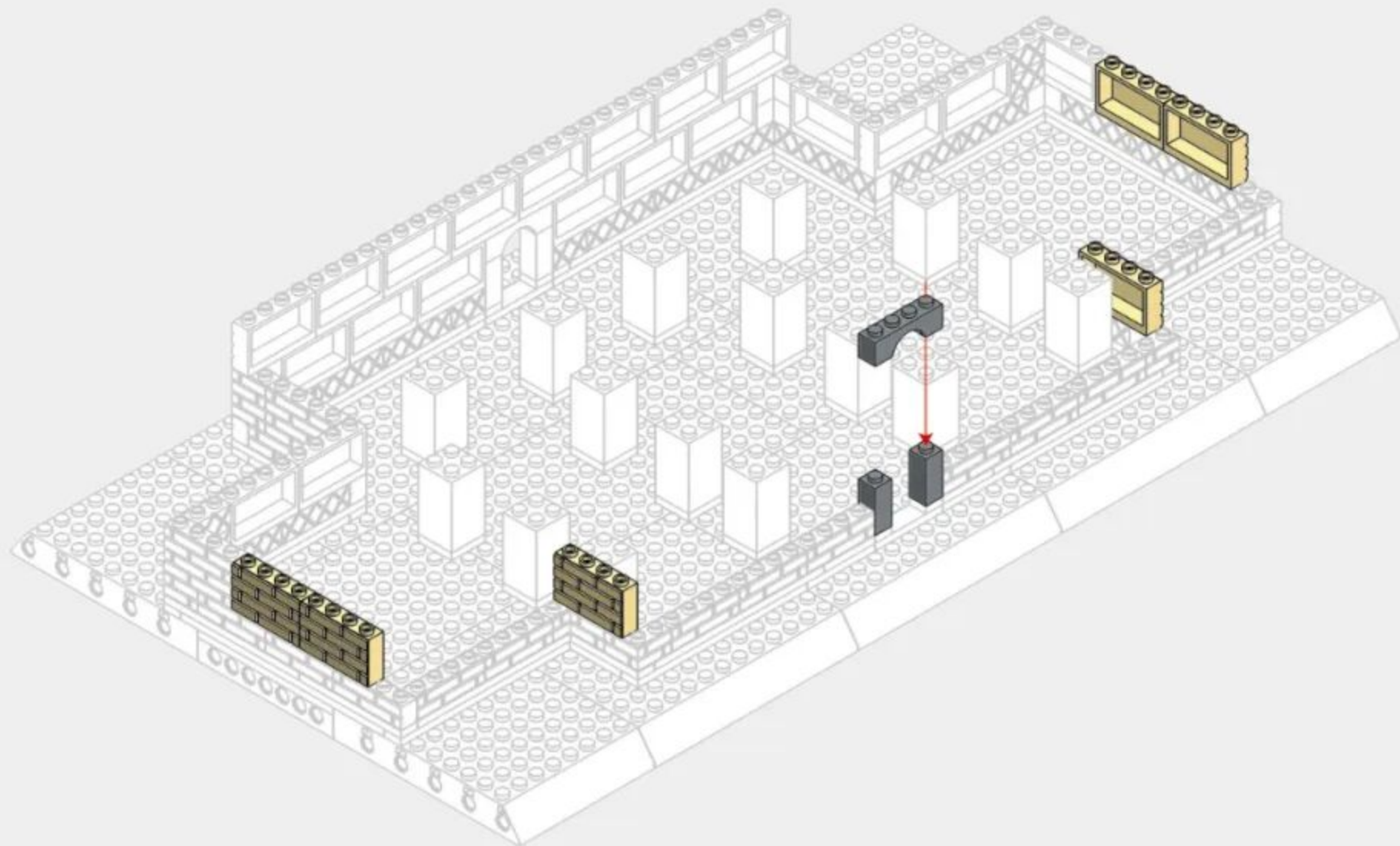
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x1



x2



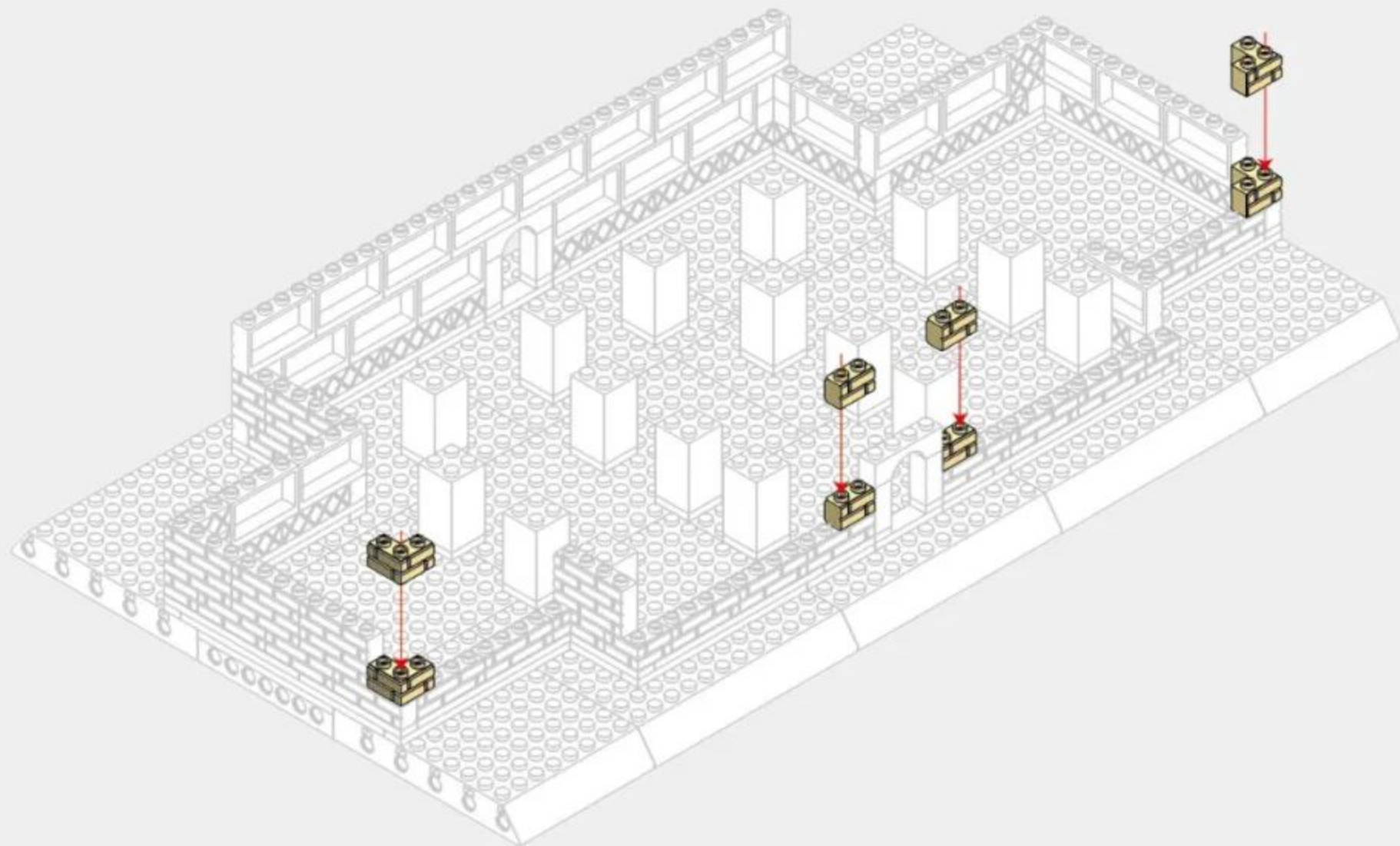
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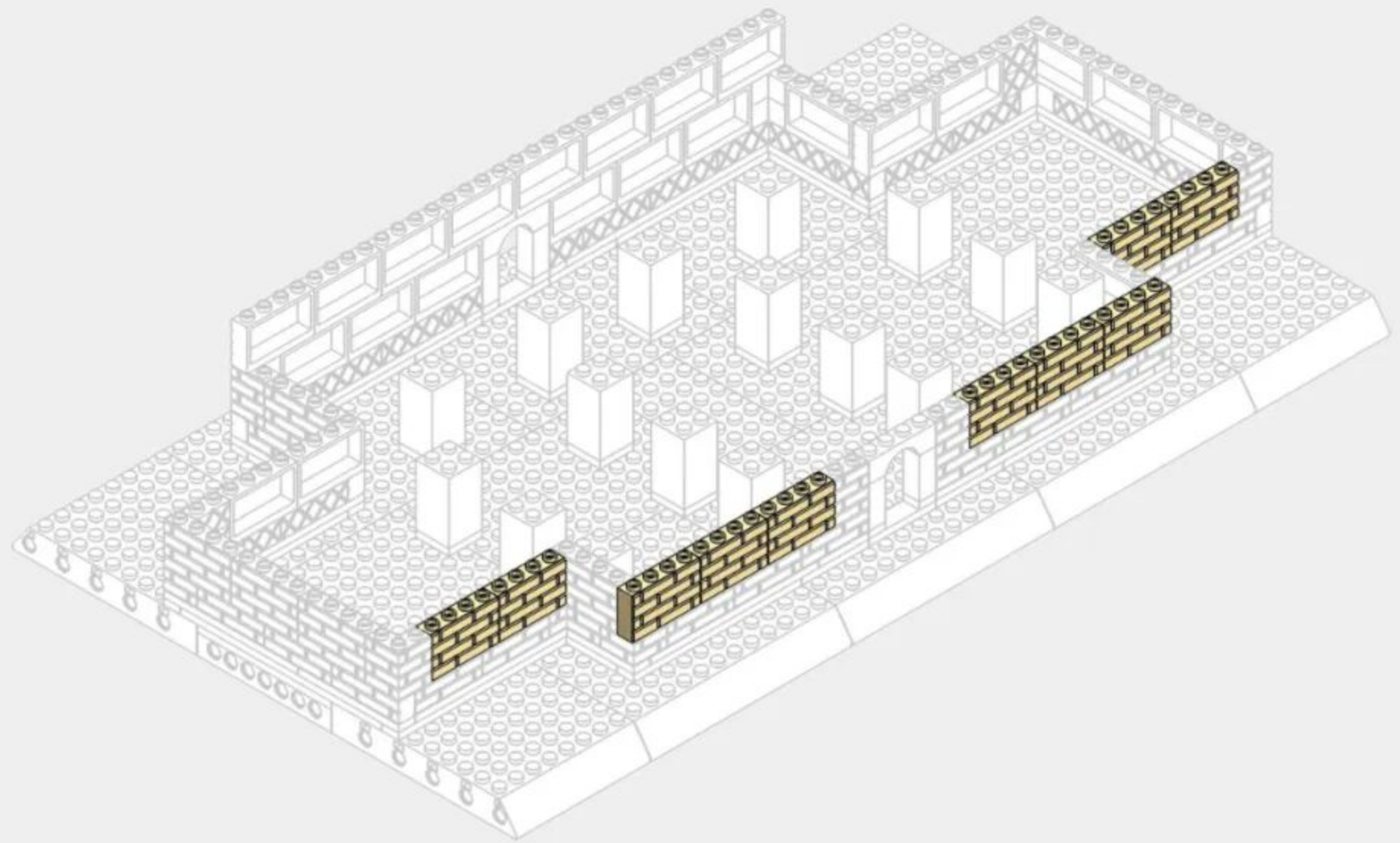
x4



x4



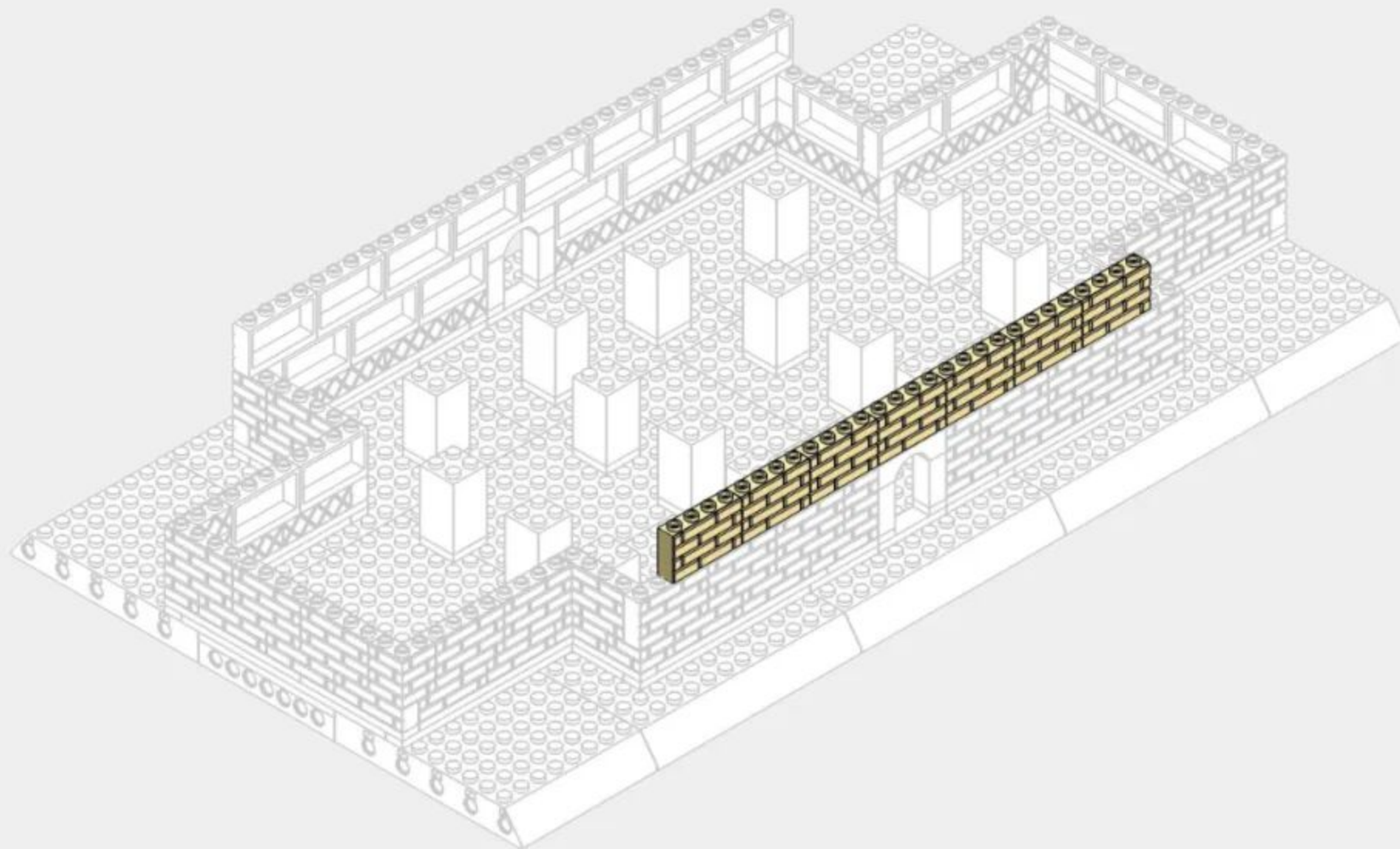
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1-17

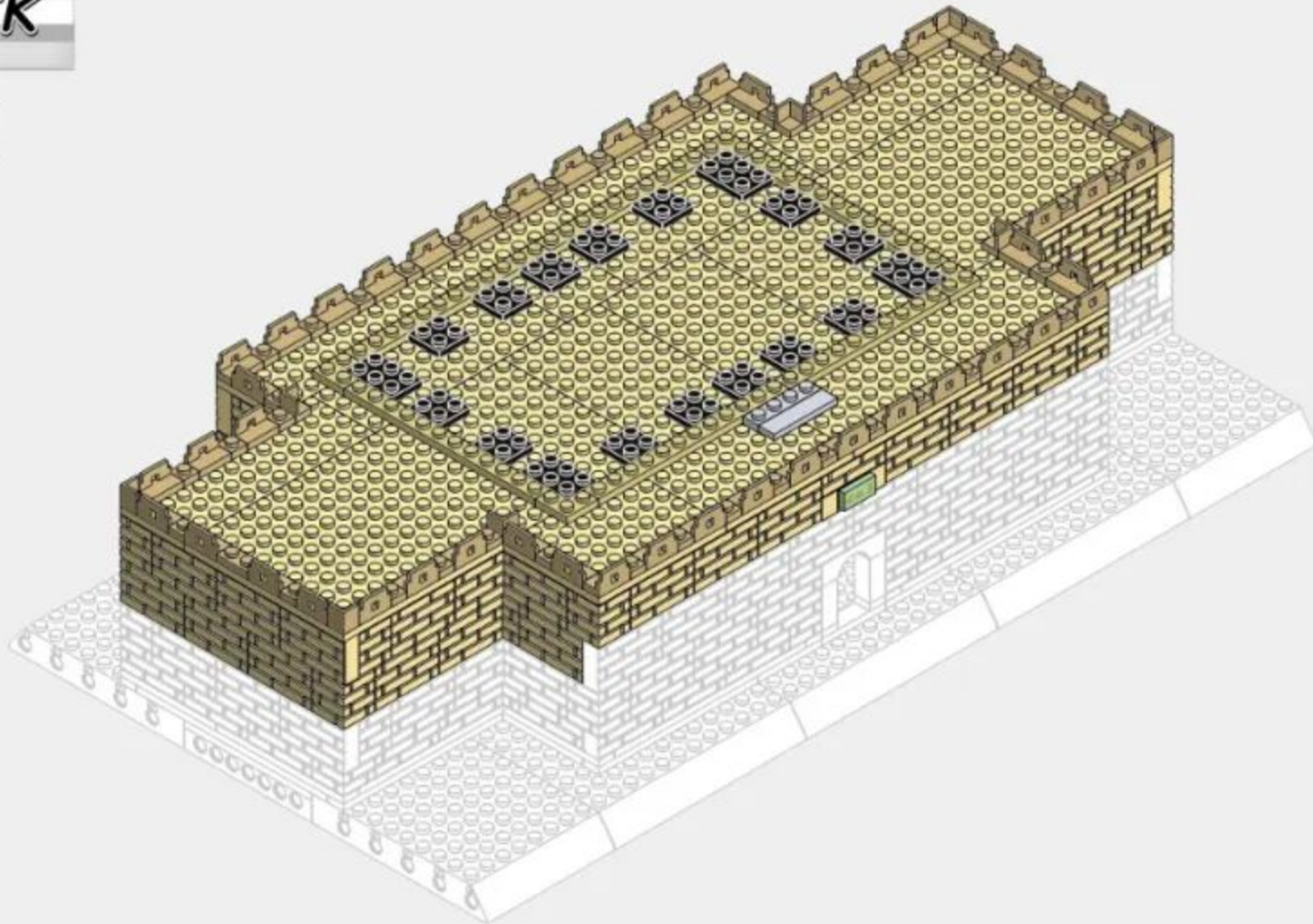


x7





272PCS



2-1



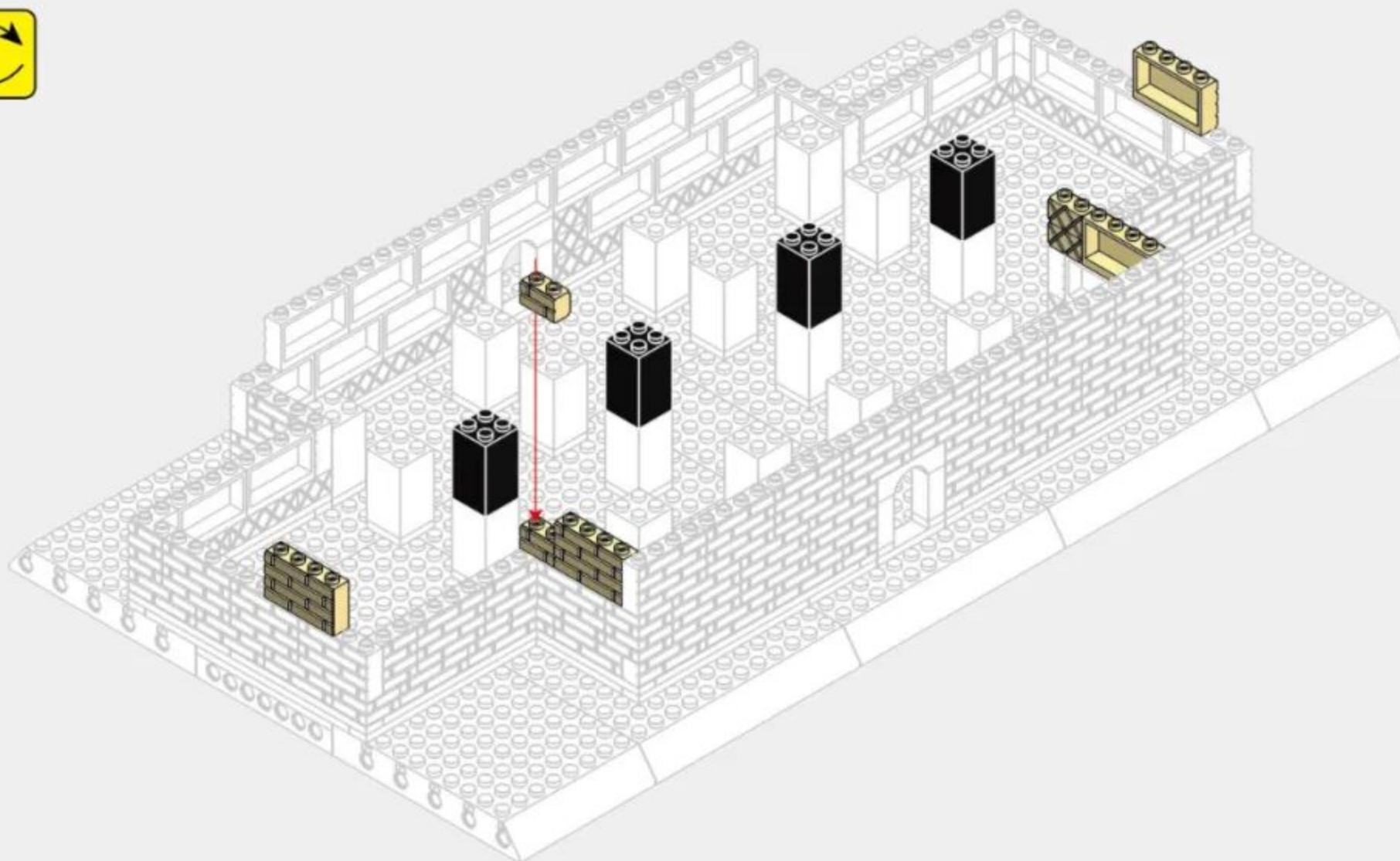
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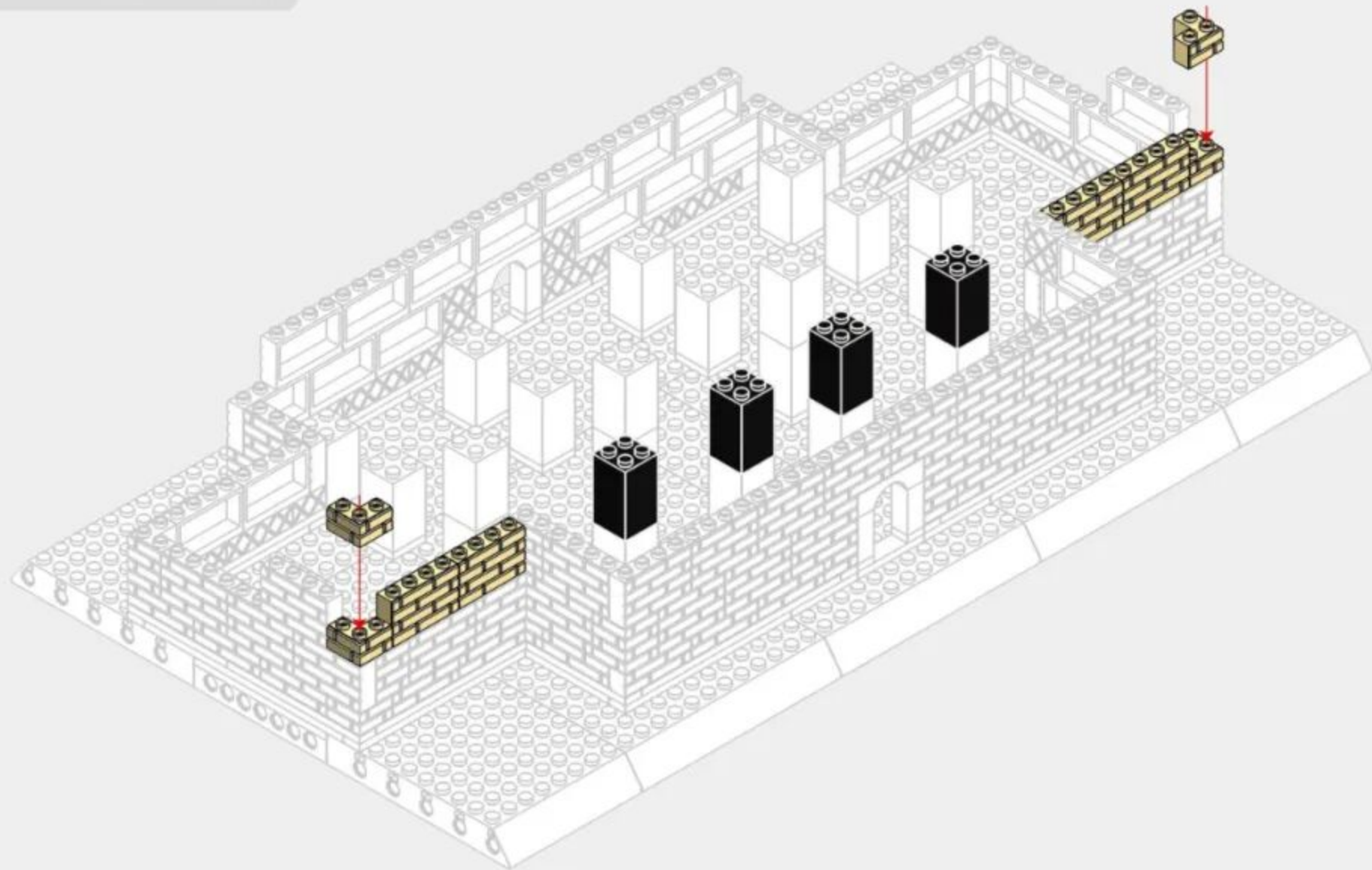
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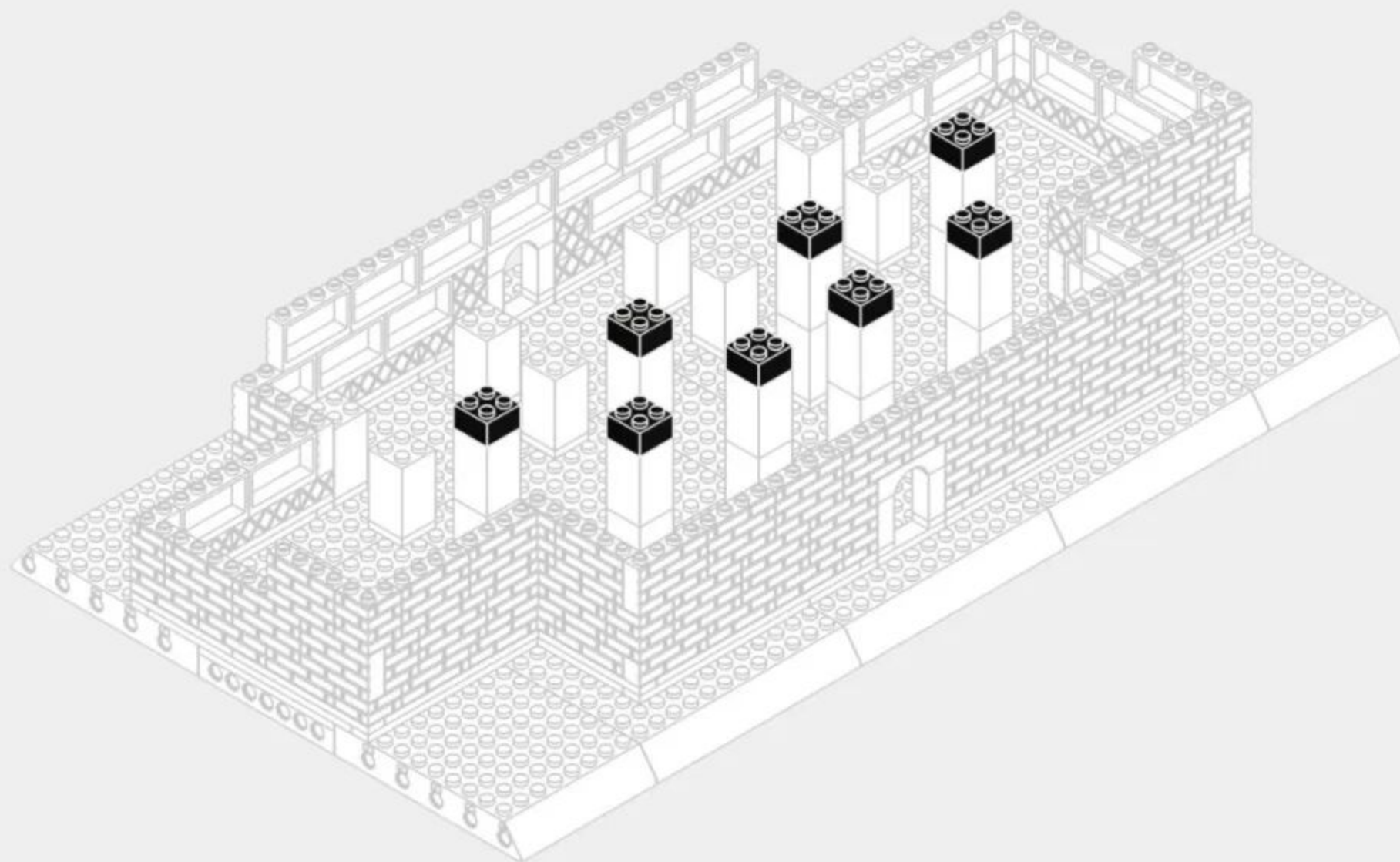
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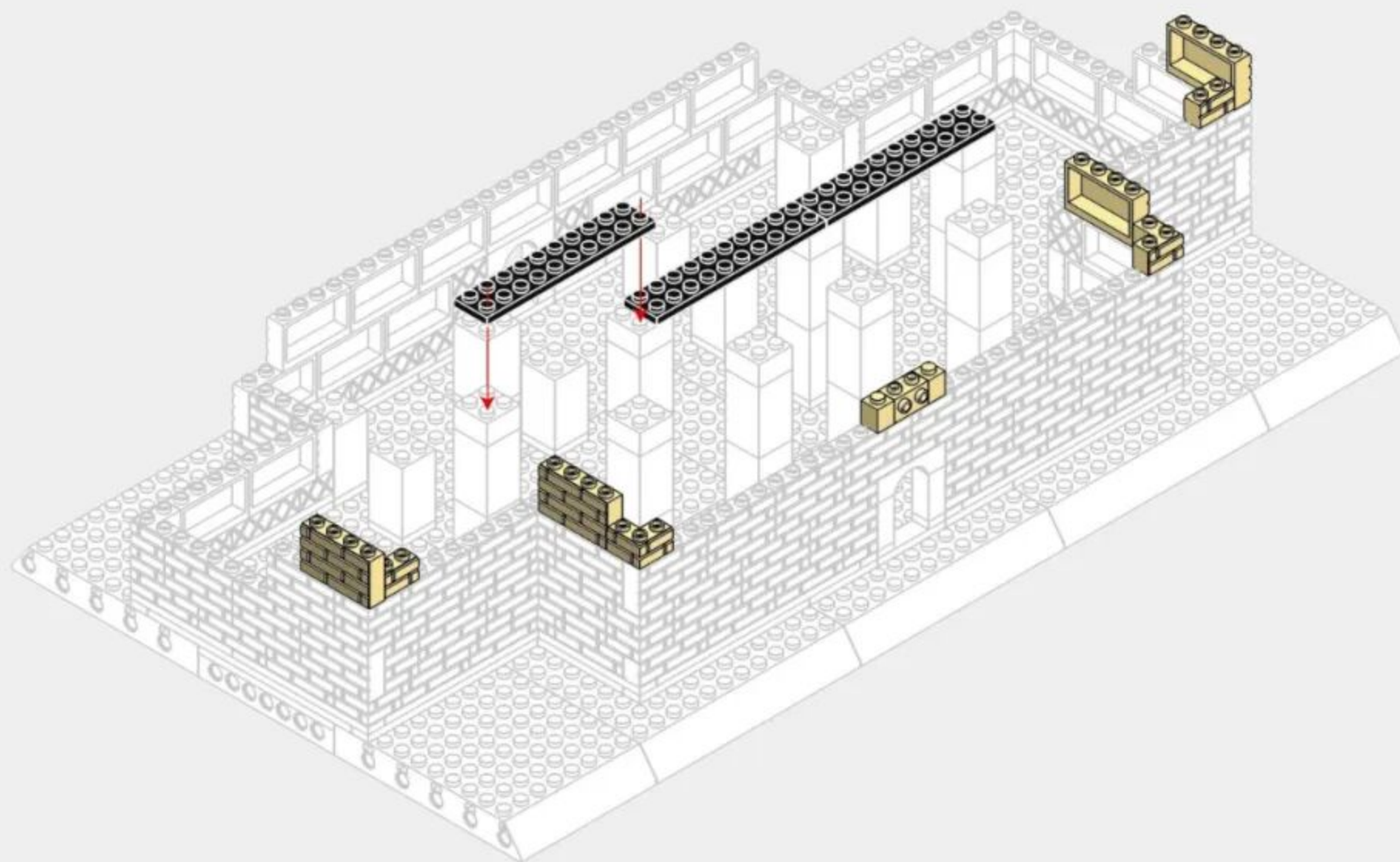
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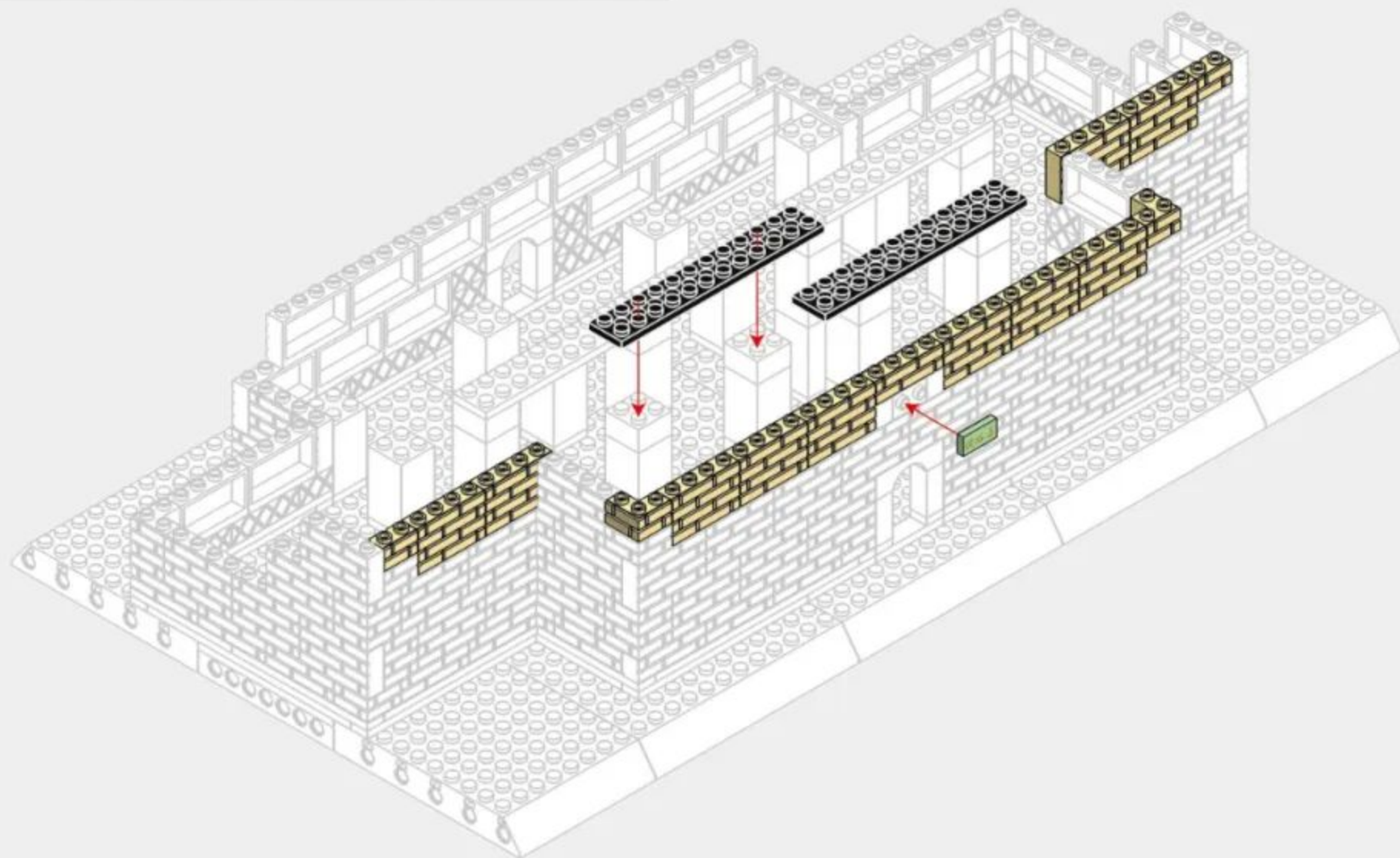
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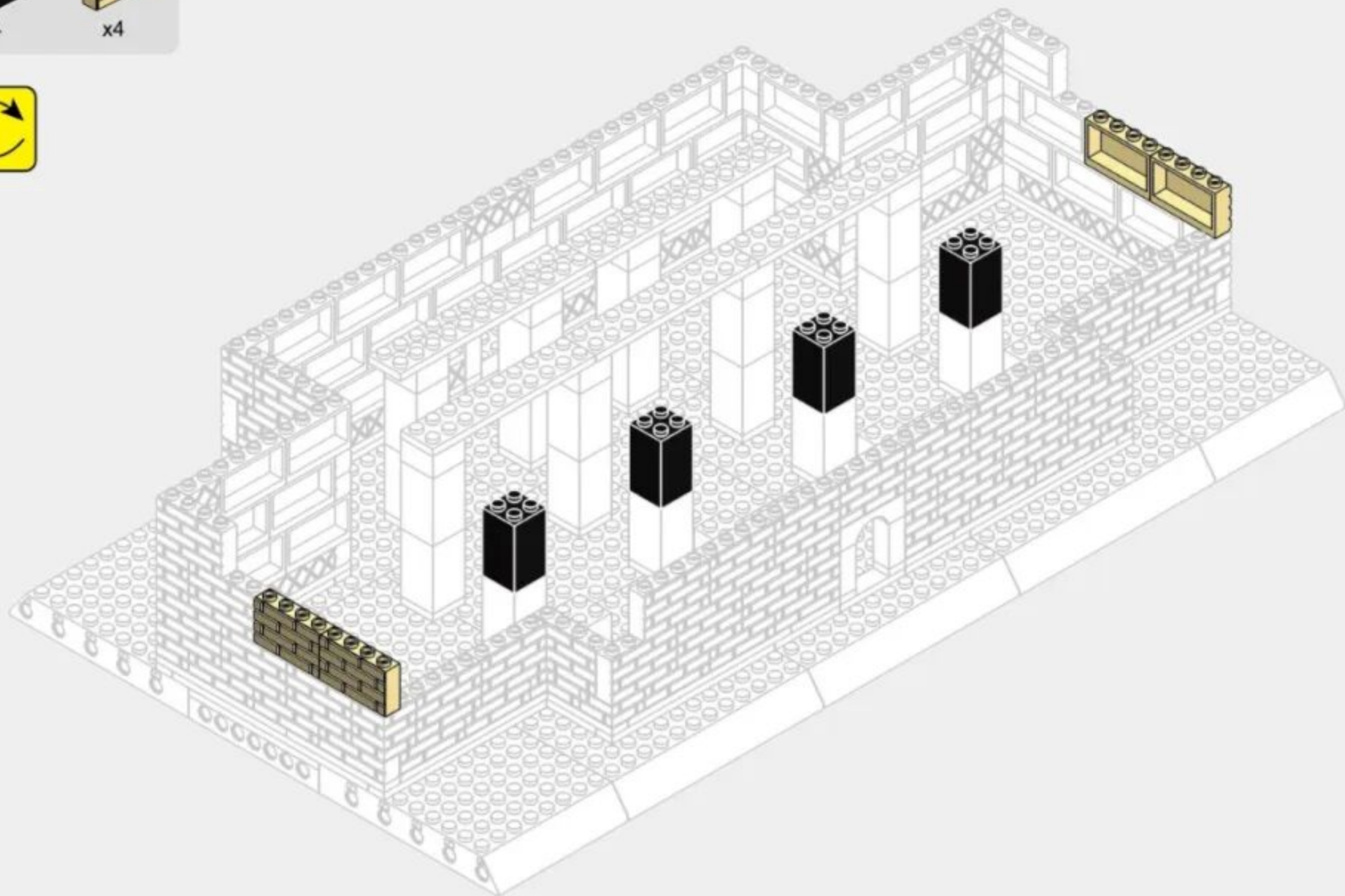
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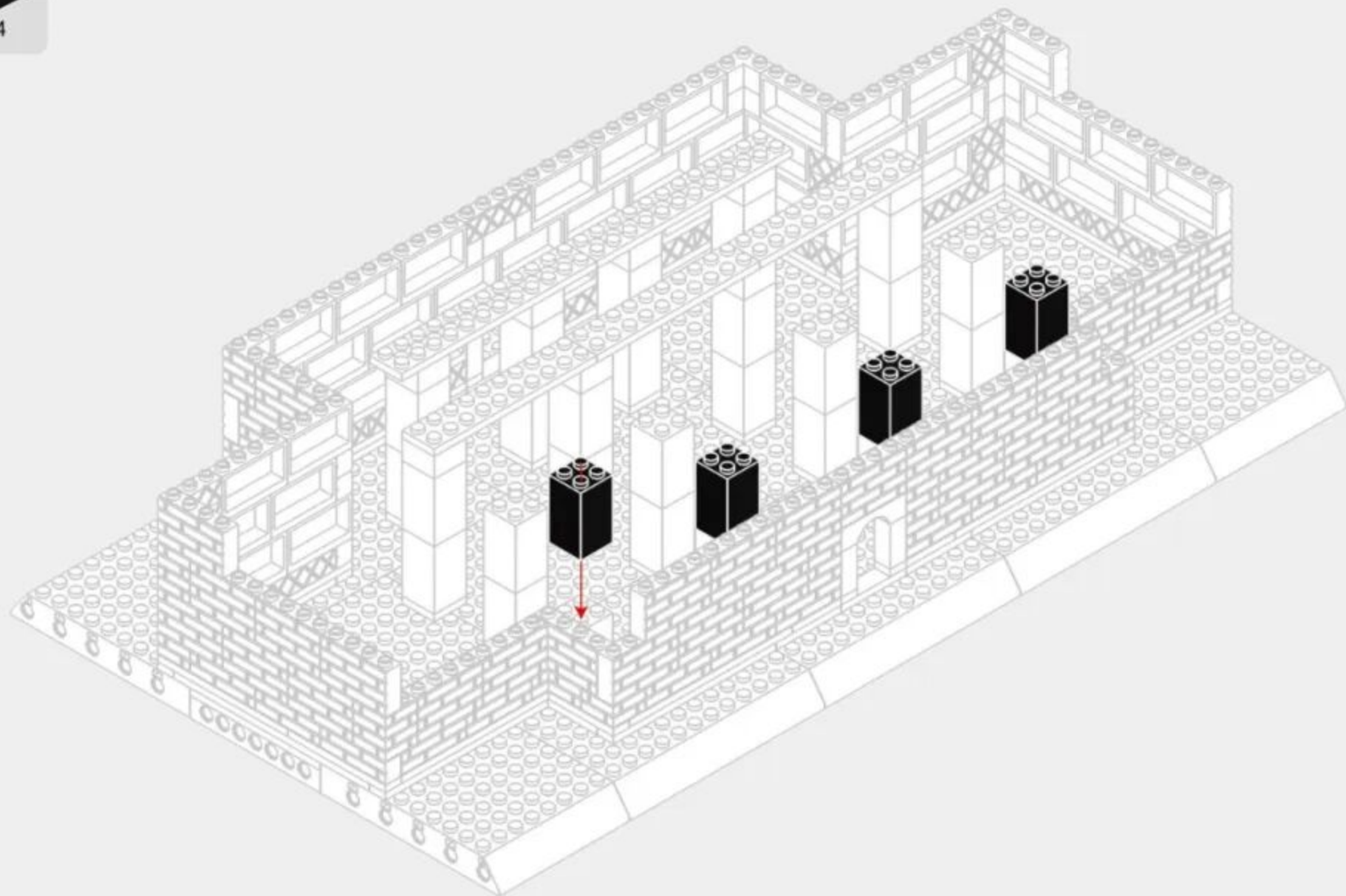
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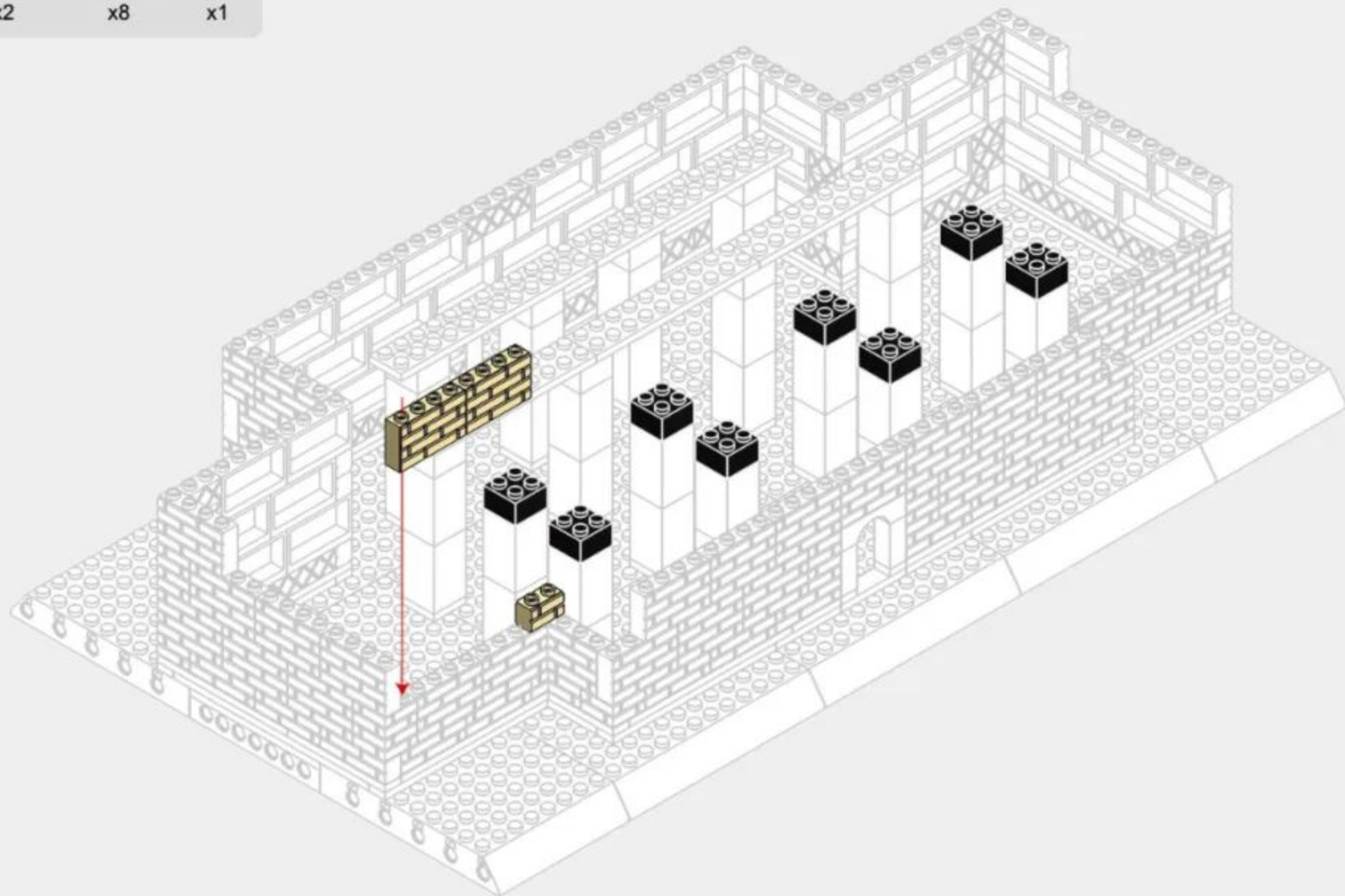
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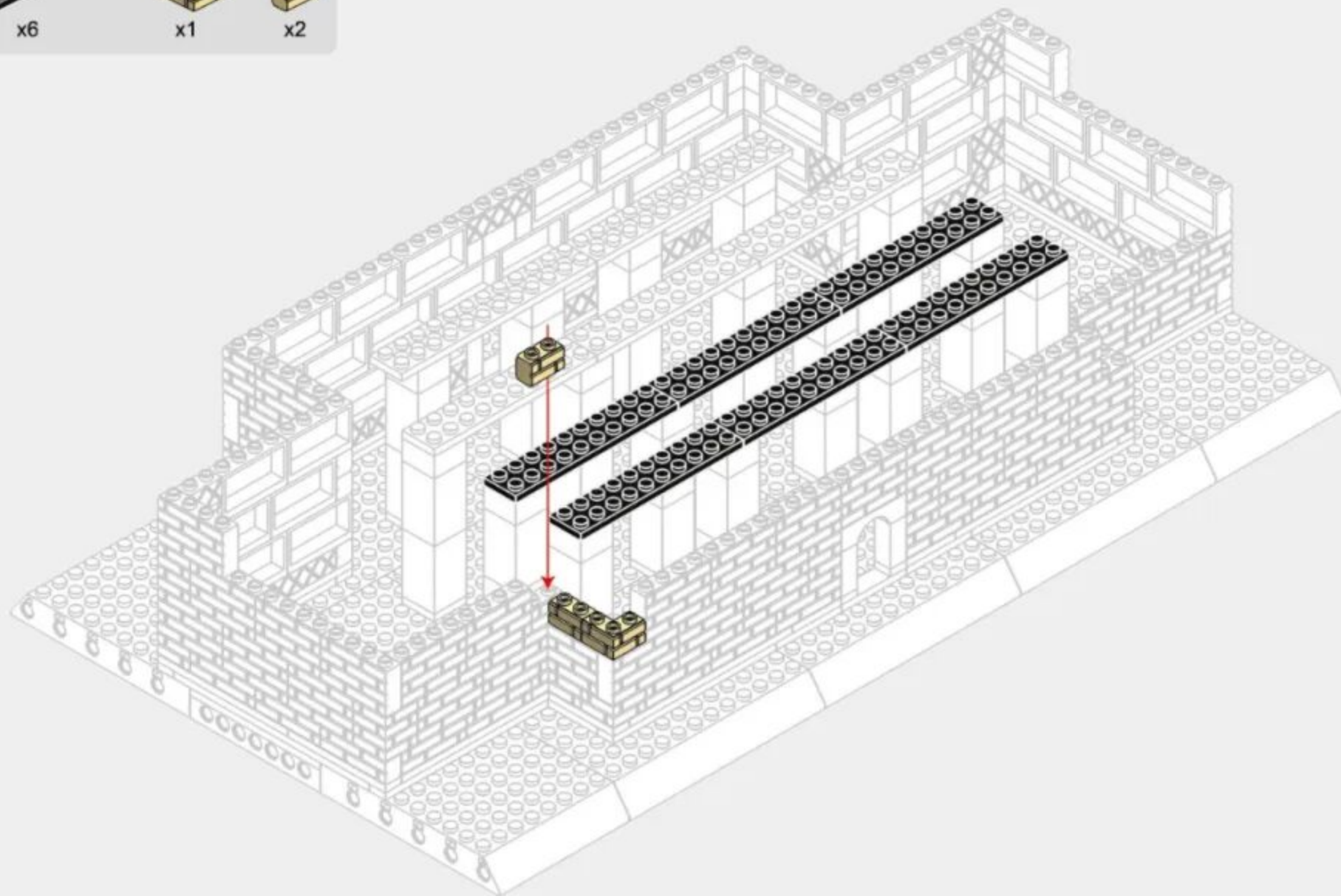
2-7



2-8



2-9



2-10



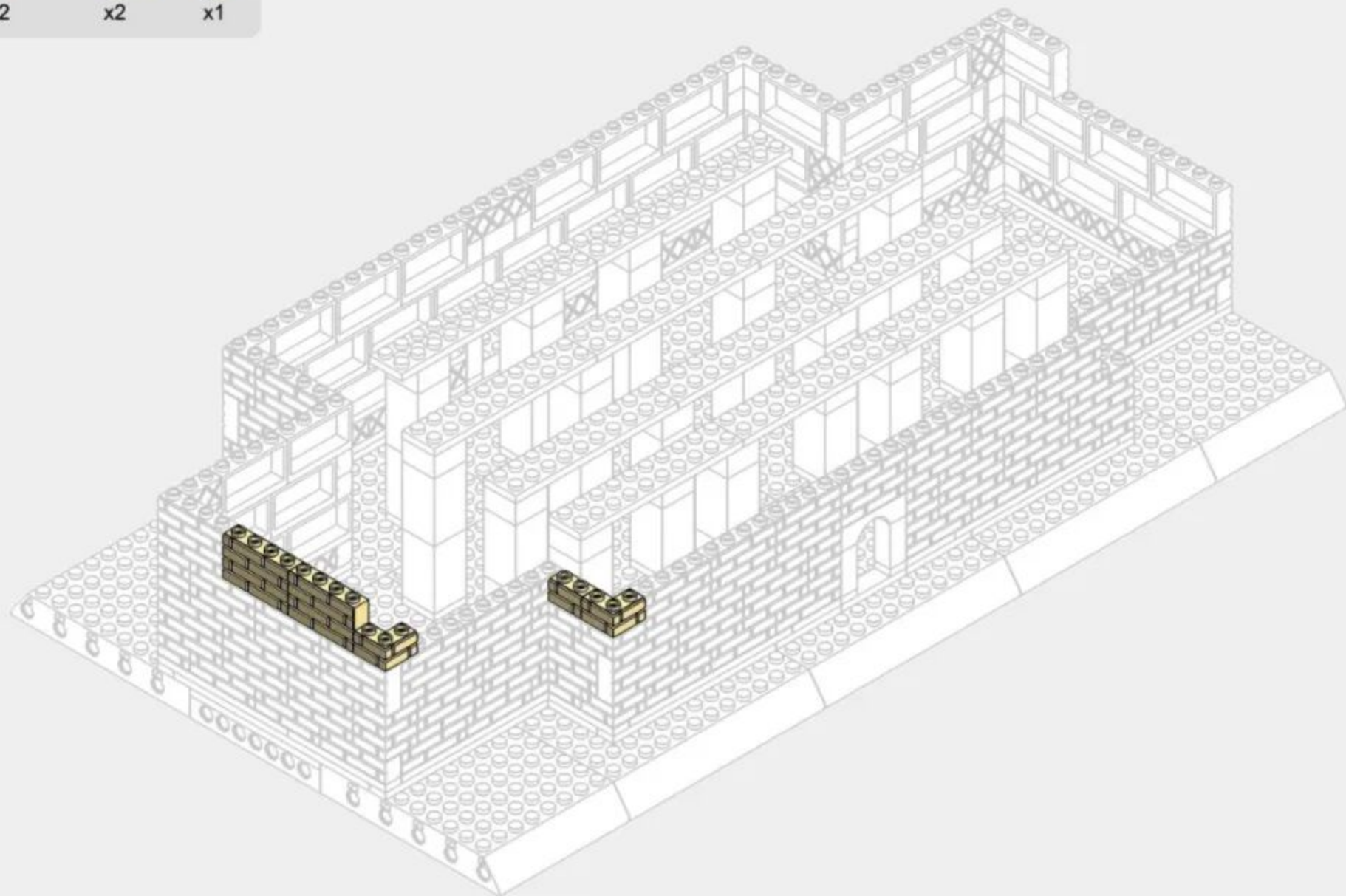
x2



x2



x1



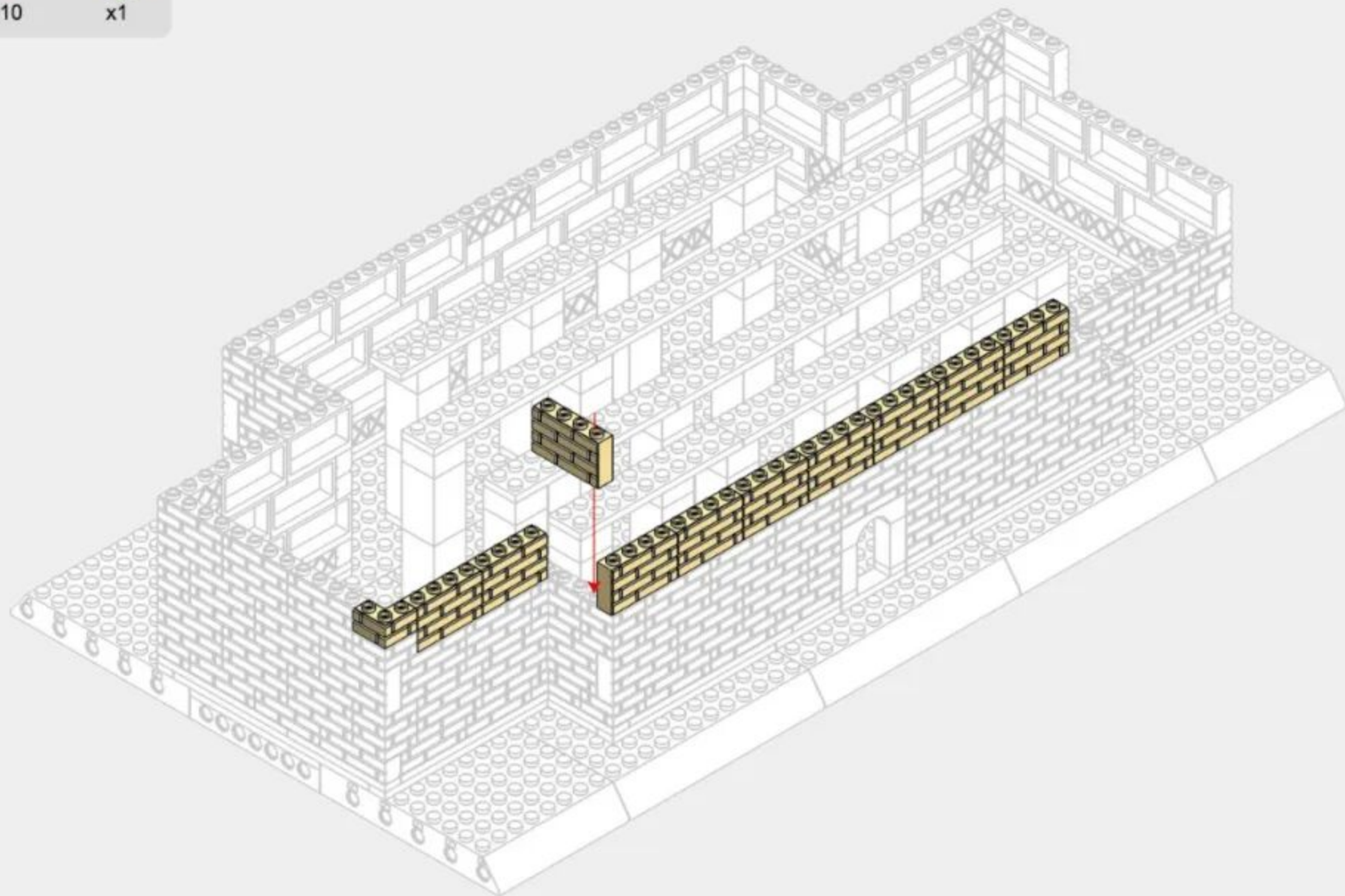
2-11



x10



x1



2-12



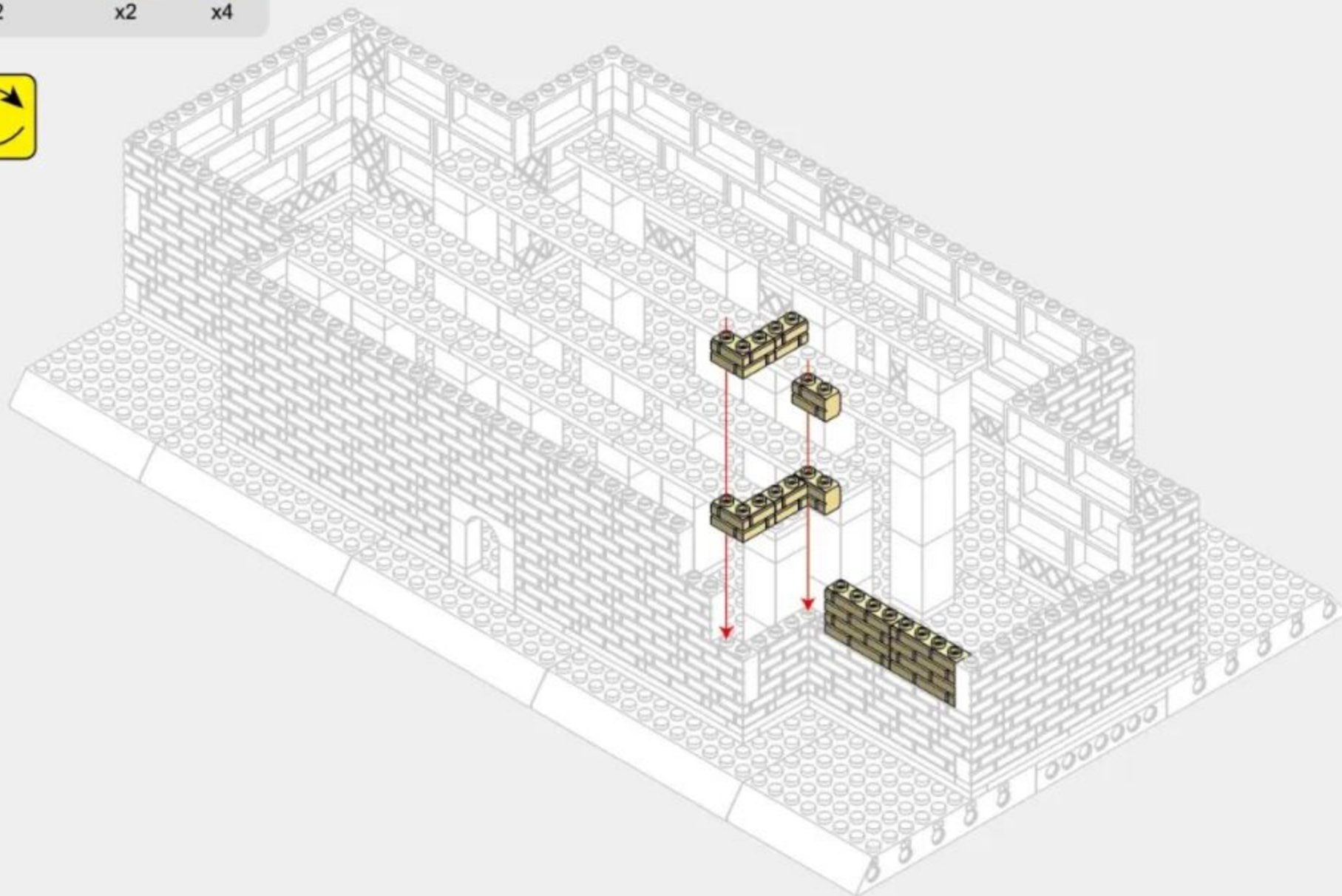
x2



x2



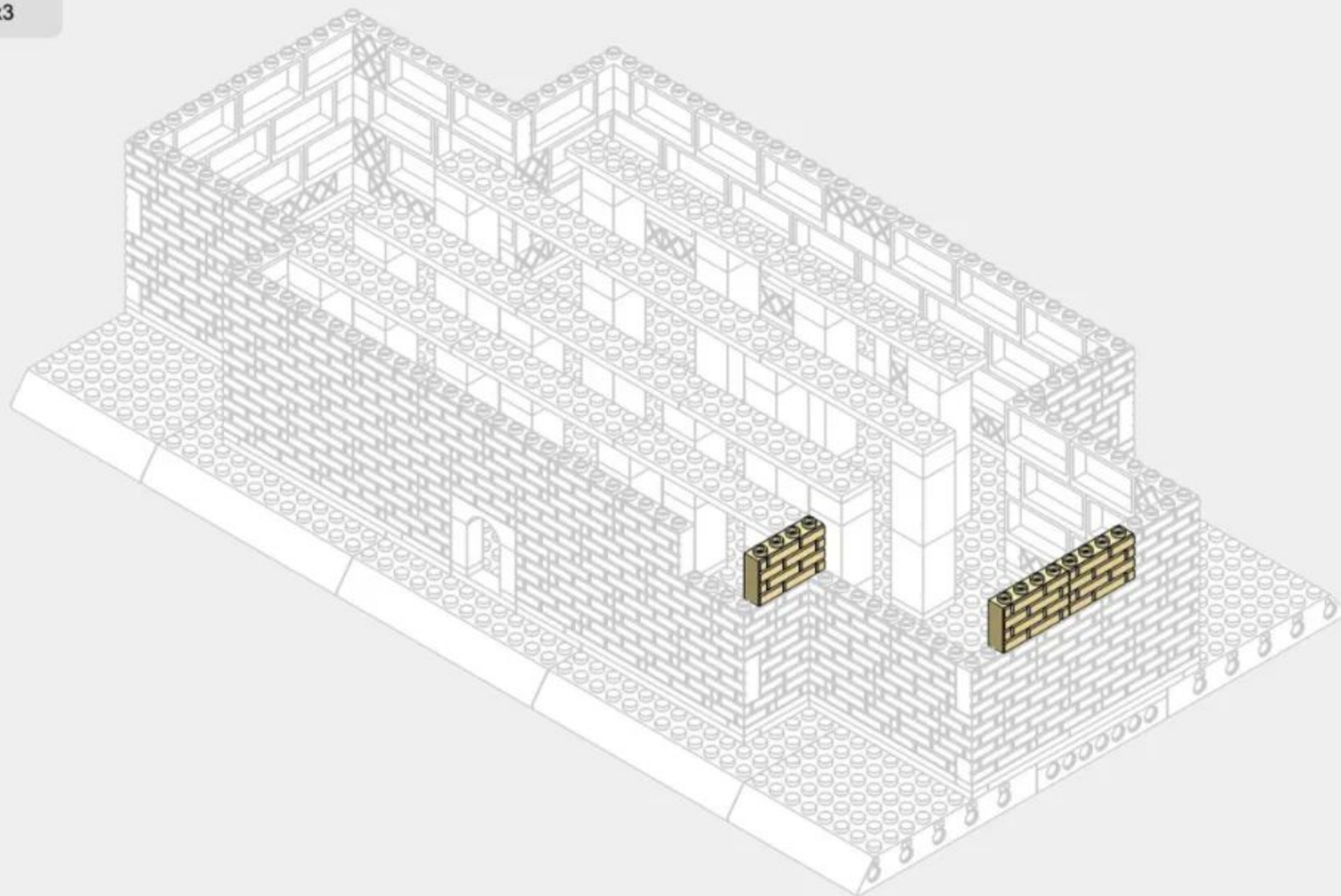
x4



2-13



x3



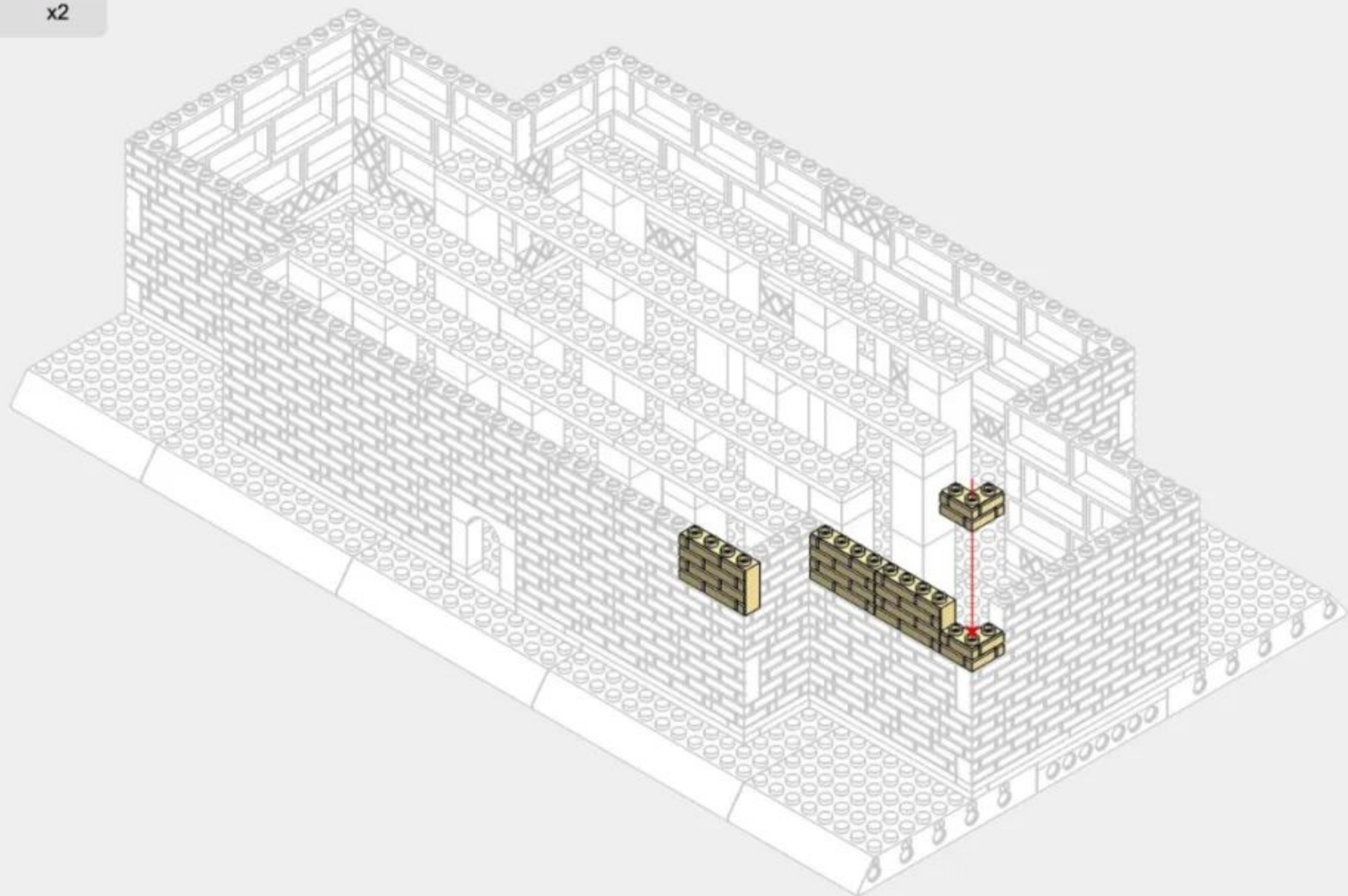
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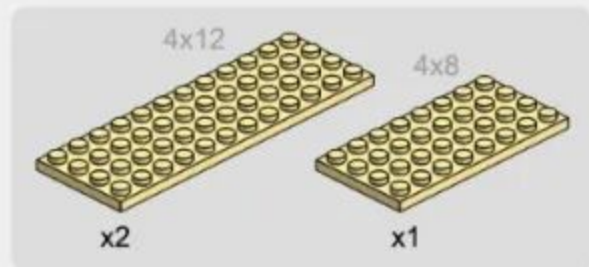
x3



x2



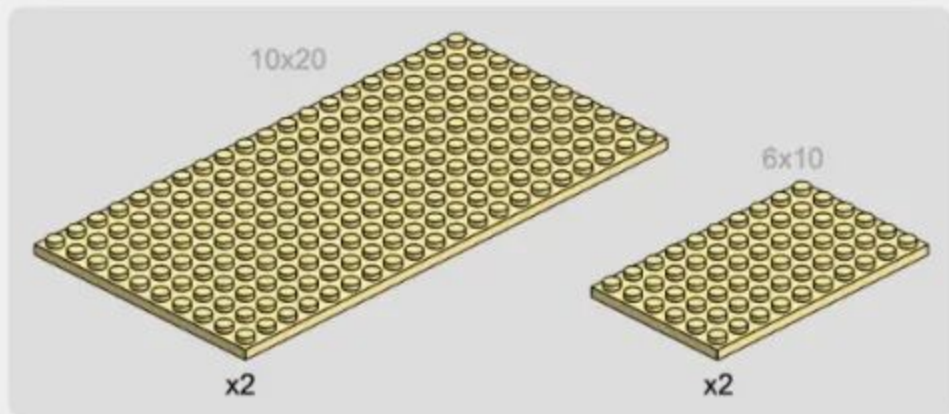
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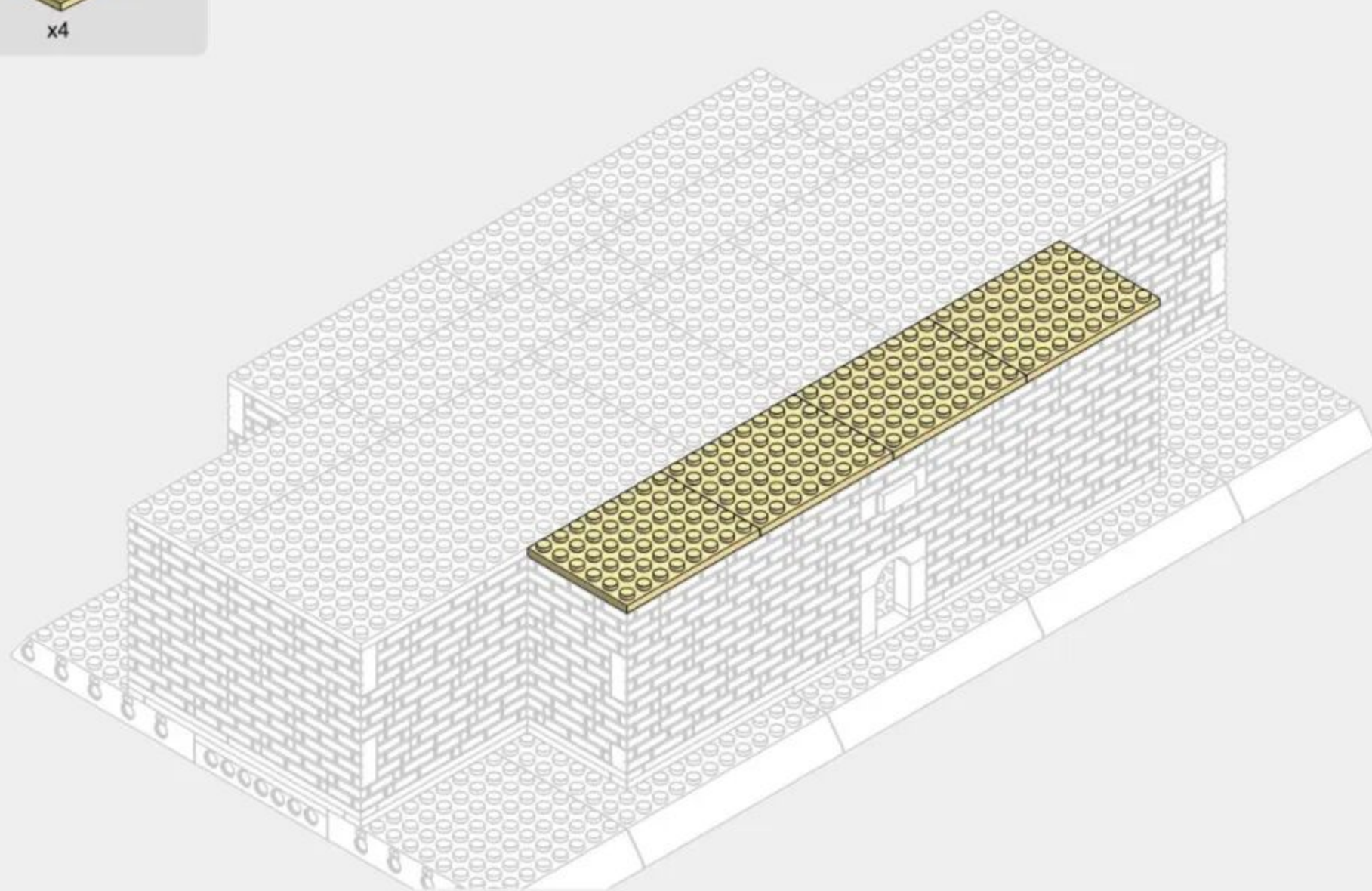
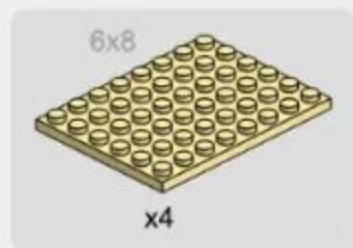
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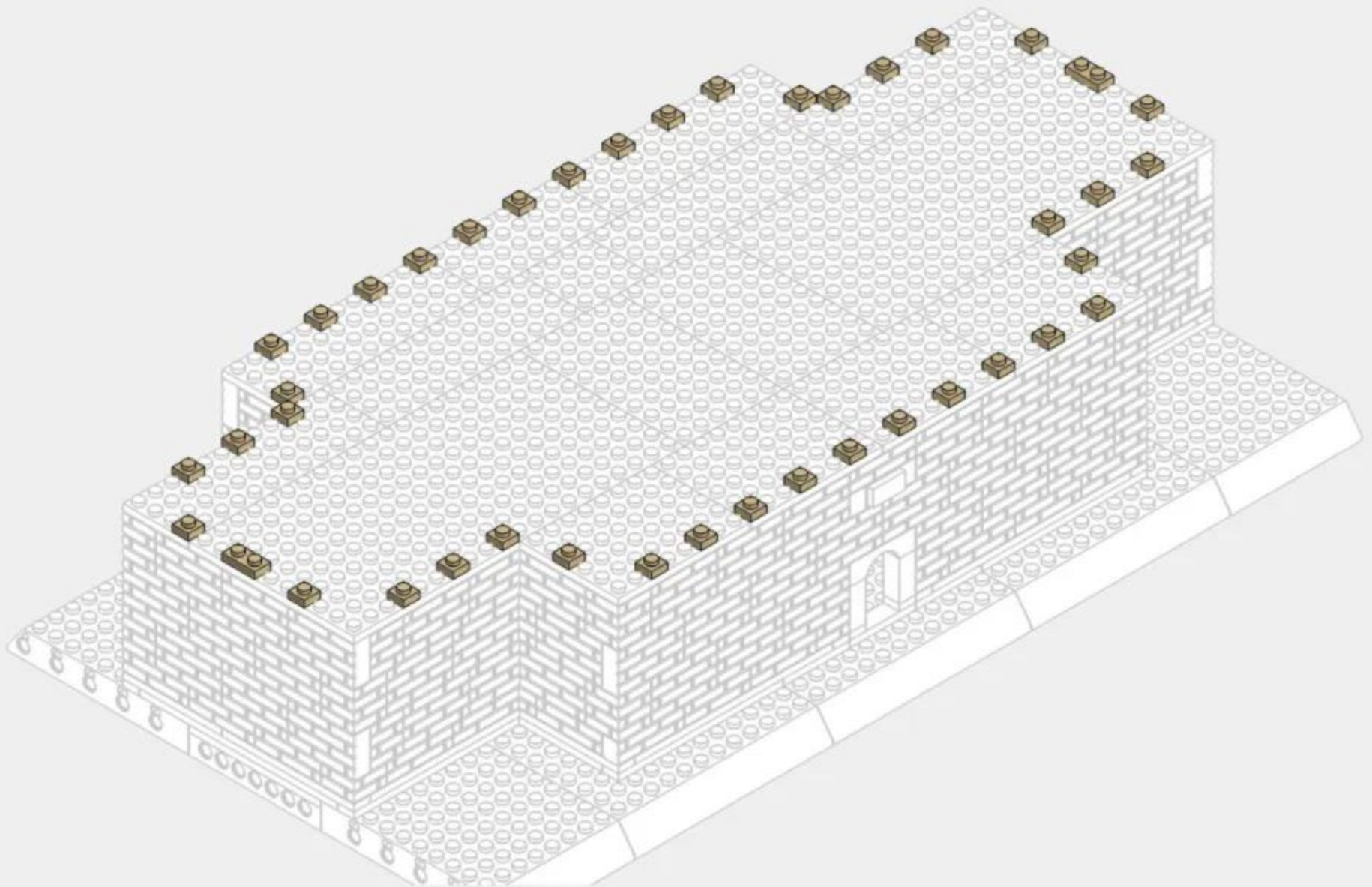
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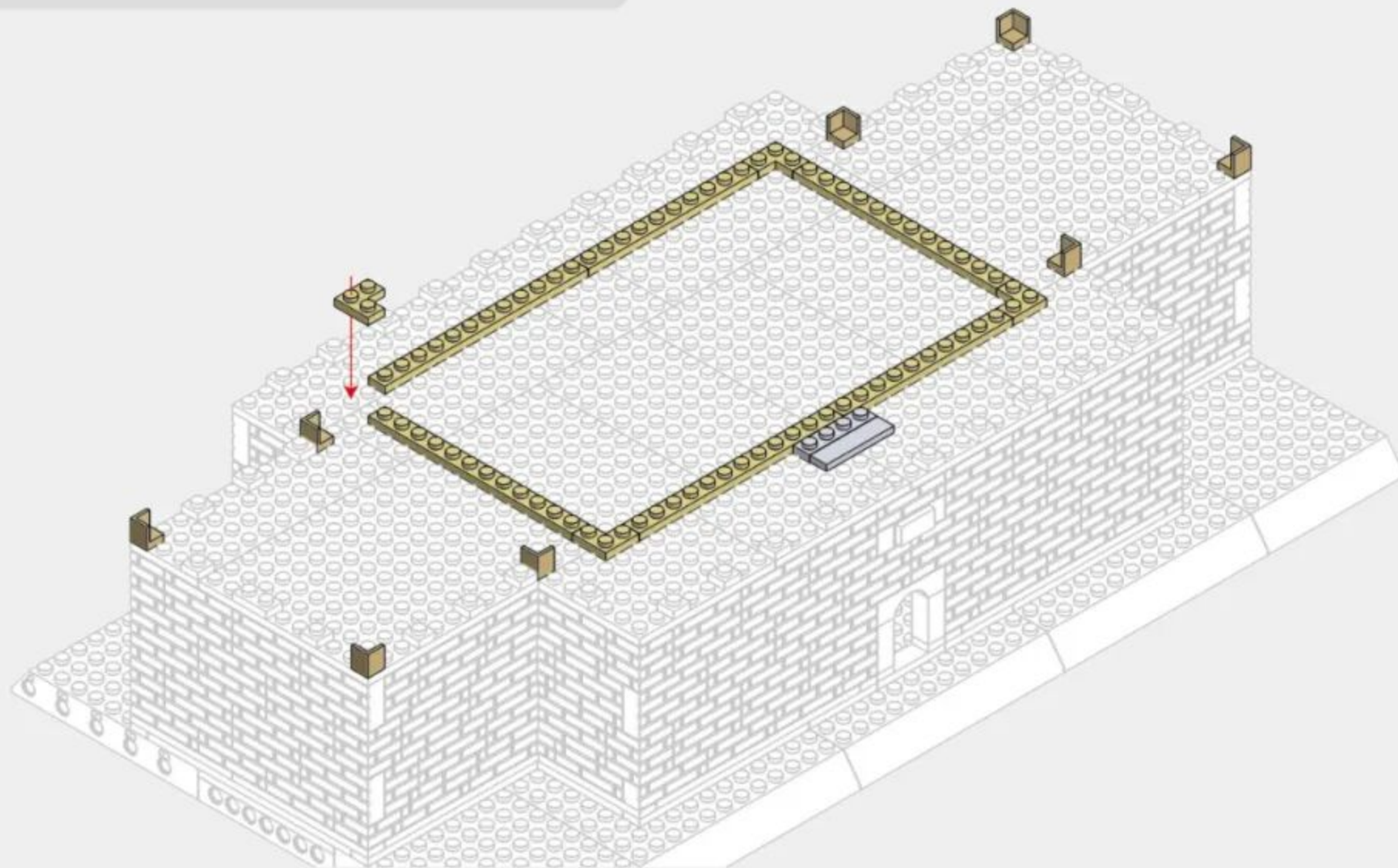
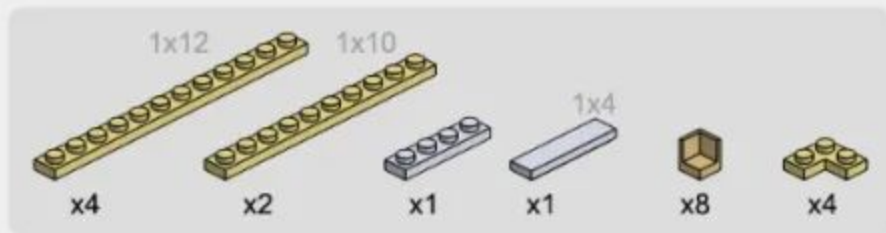
2-18



2-19



2-20



2-21



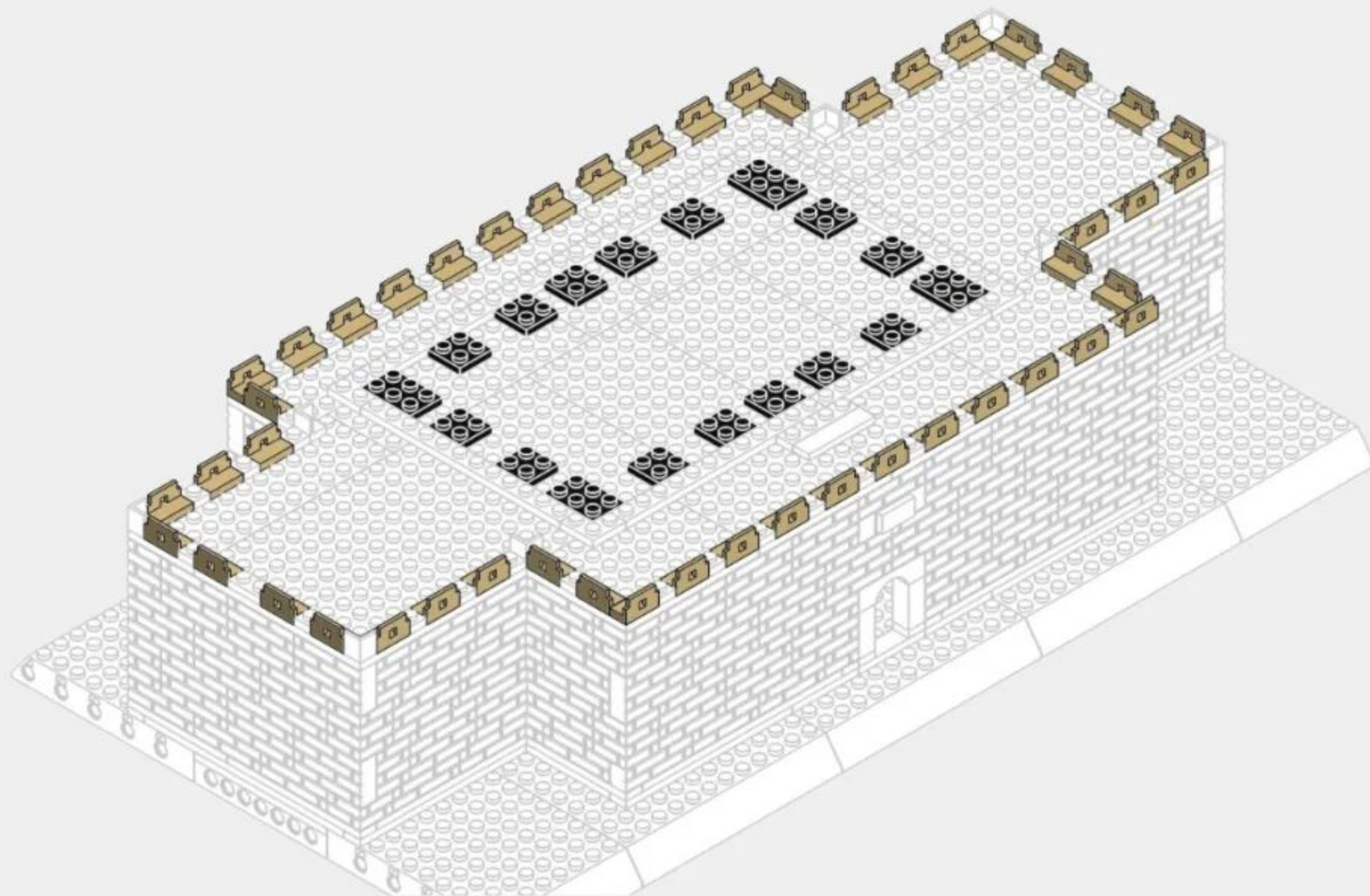
x4



x14

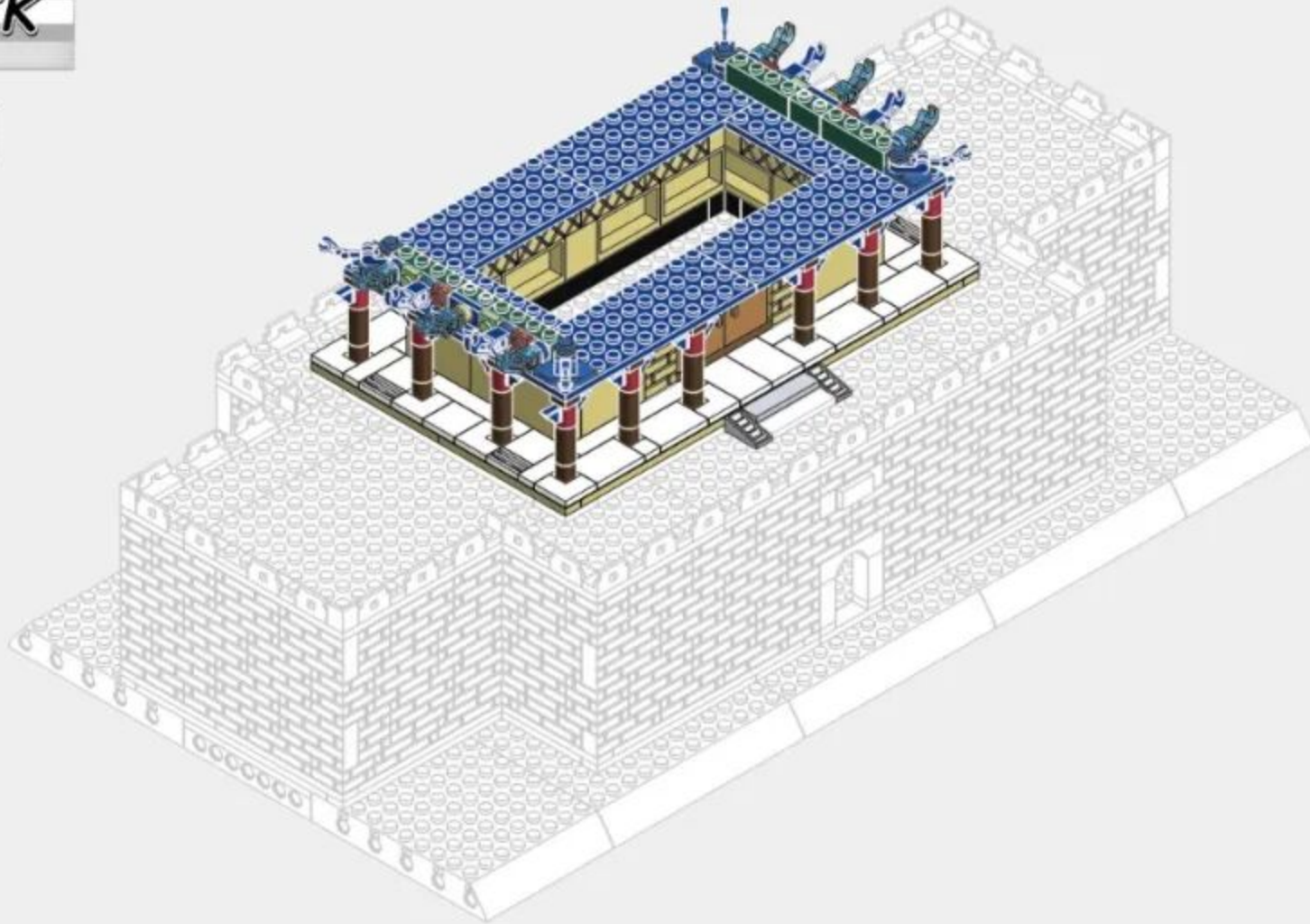


x48

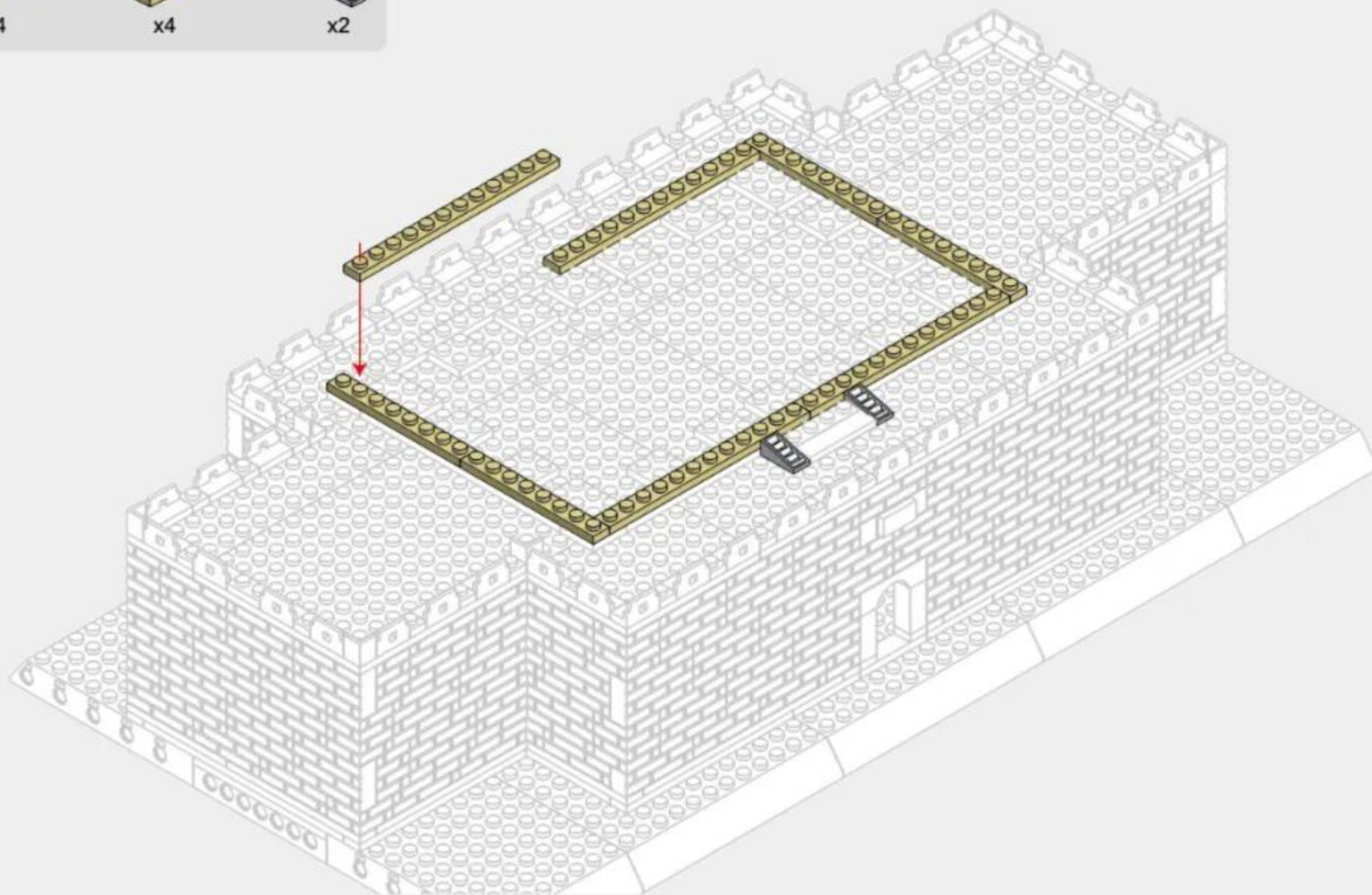
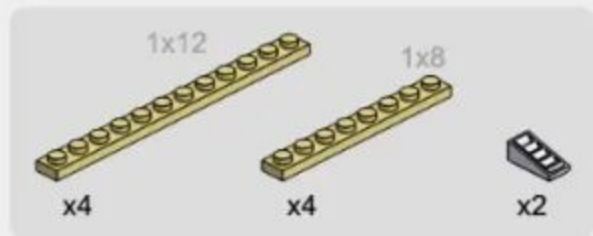




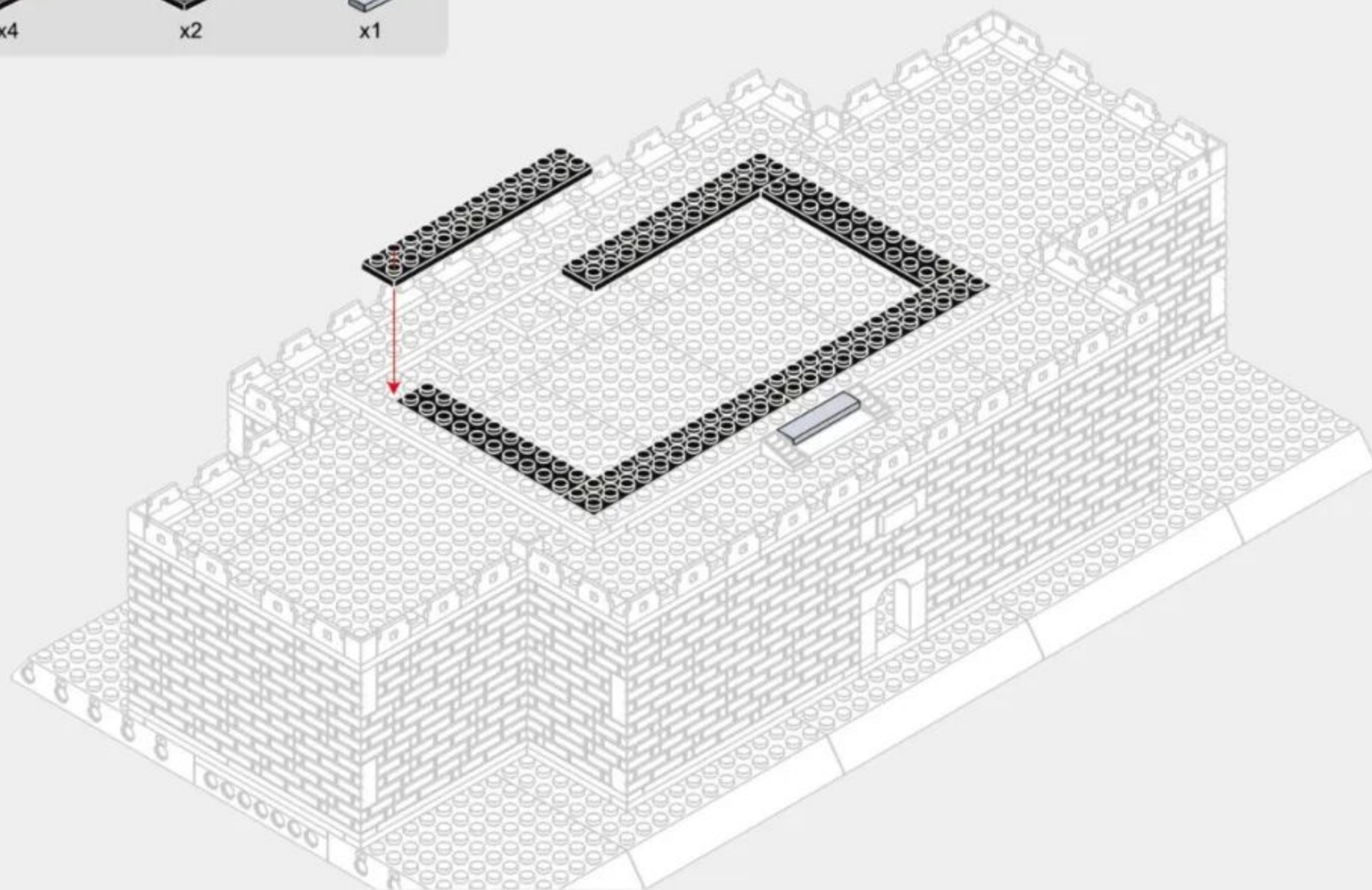
285PCS



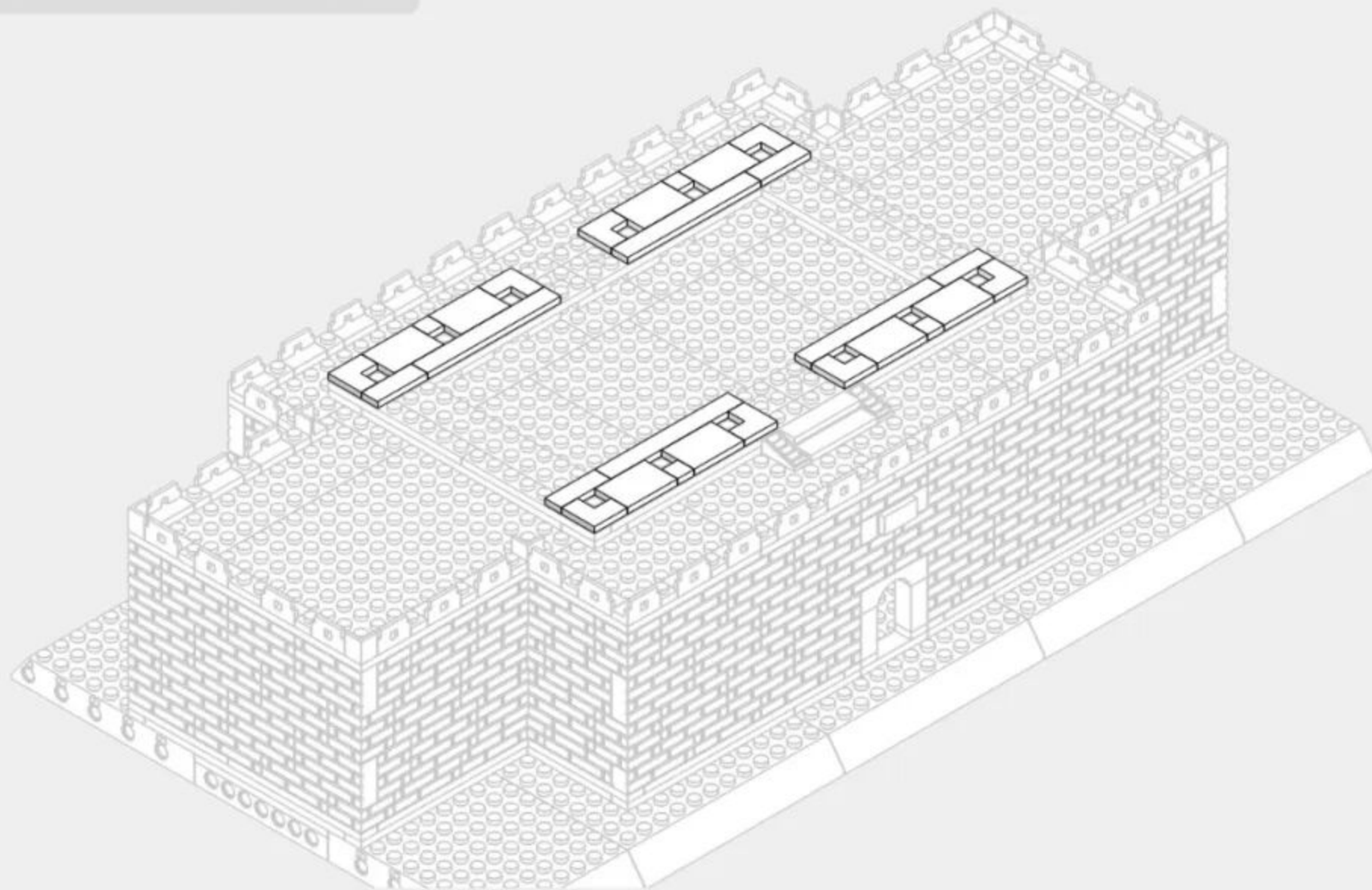
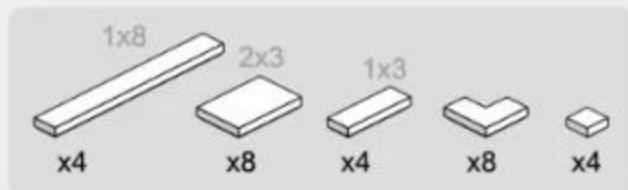
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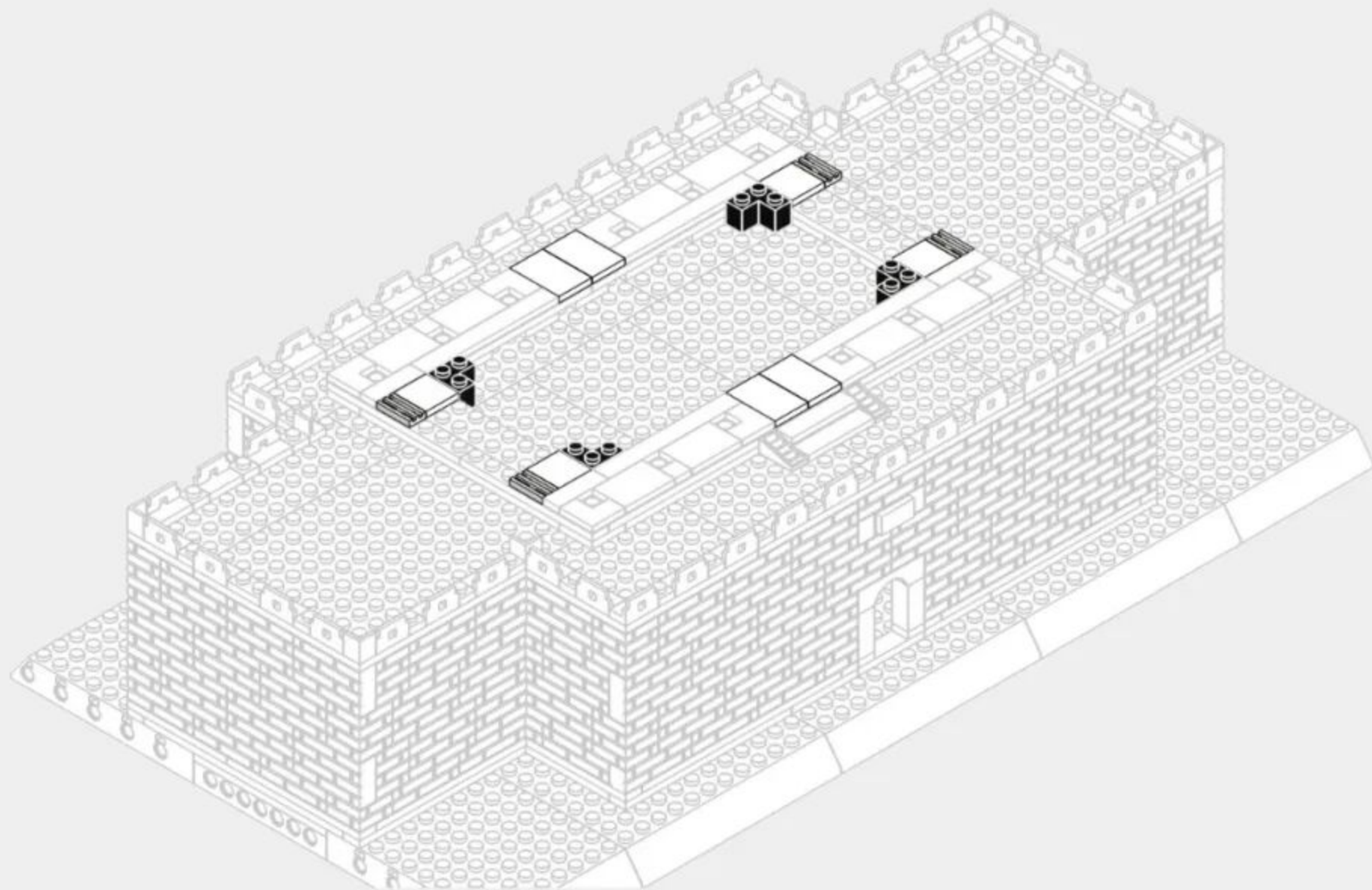
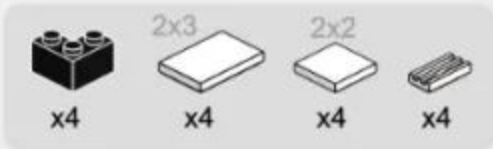
3-2



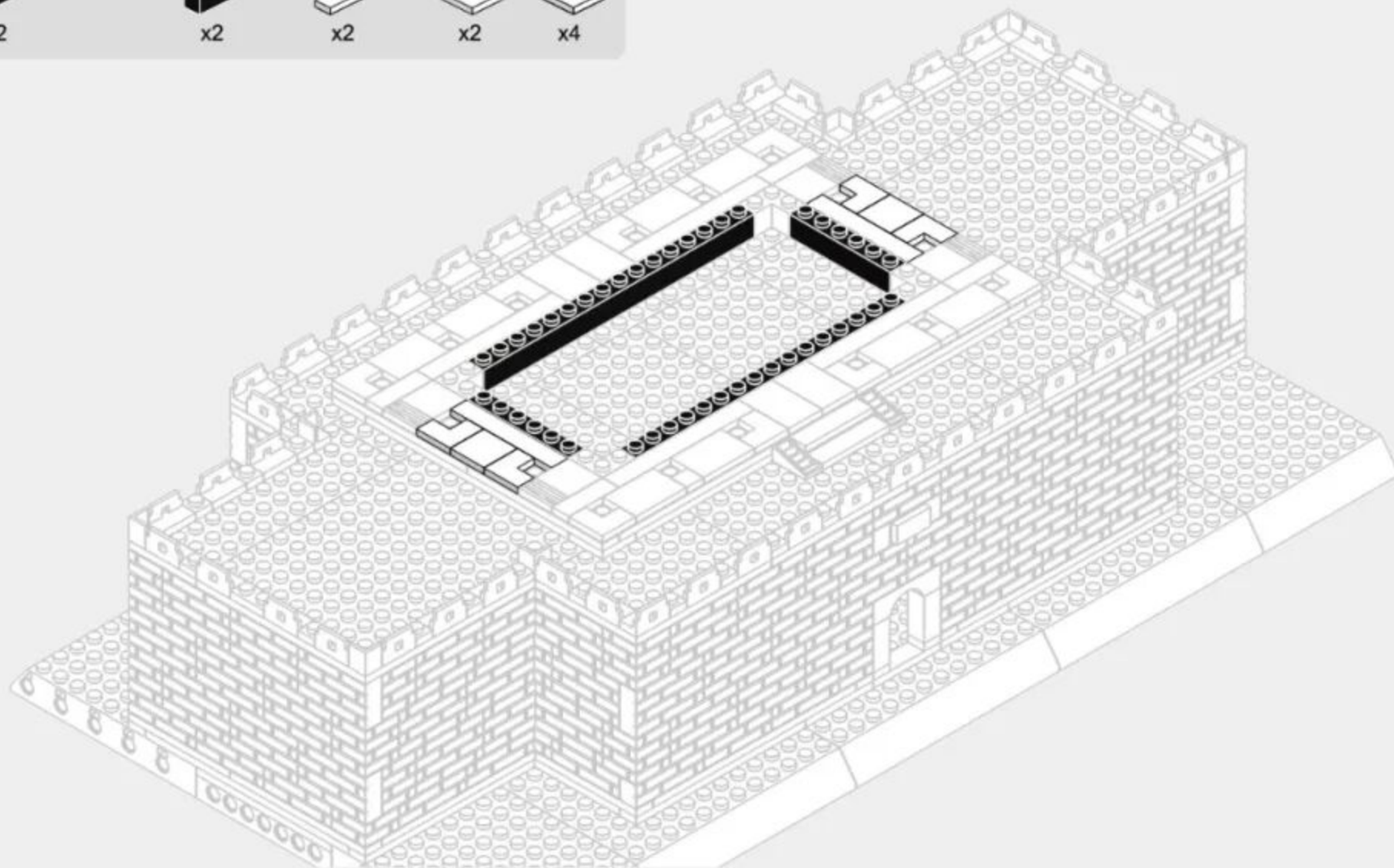
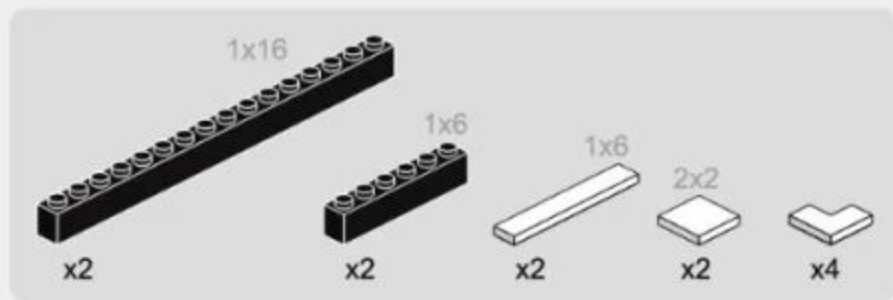
3-3



3-4



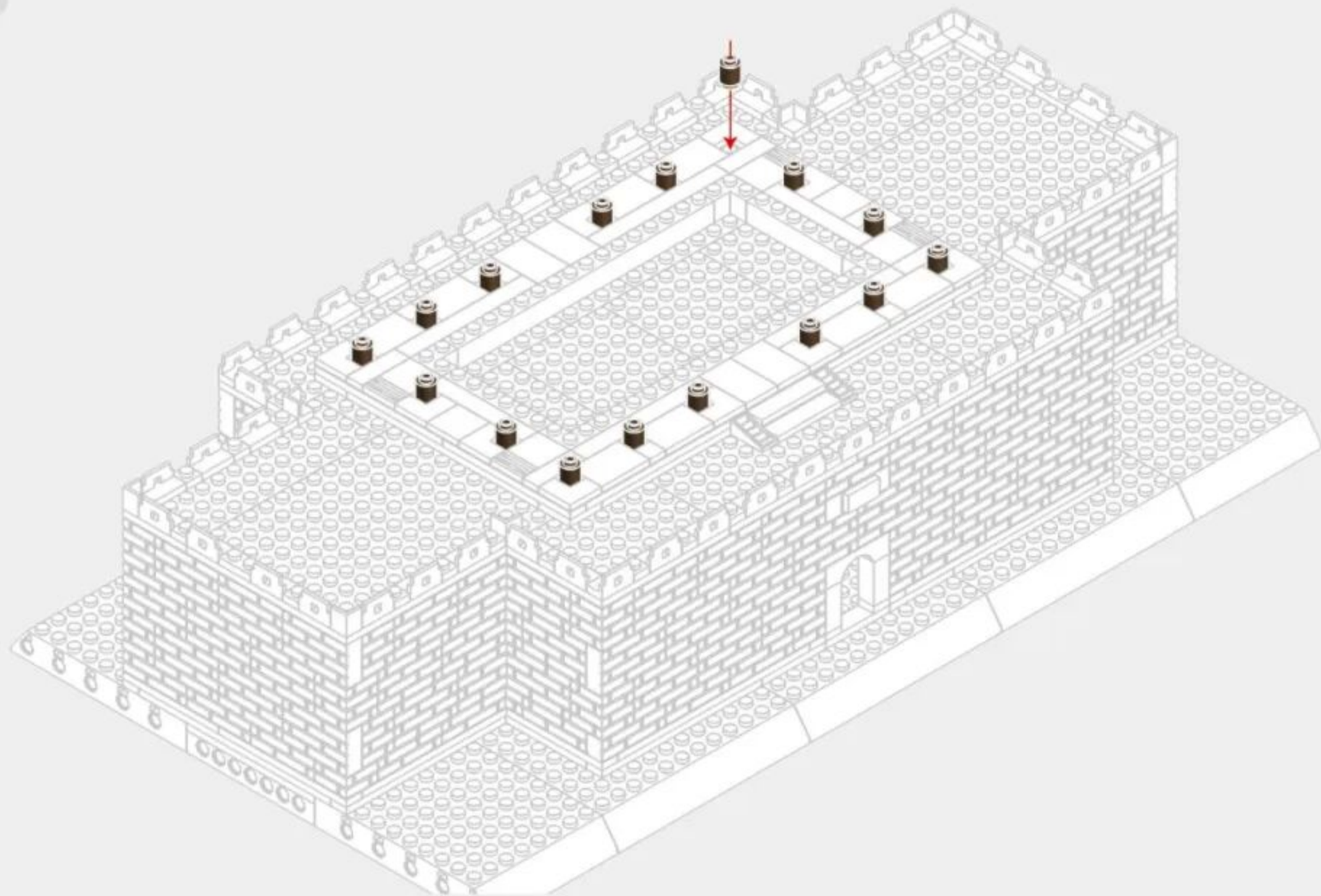
3-5



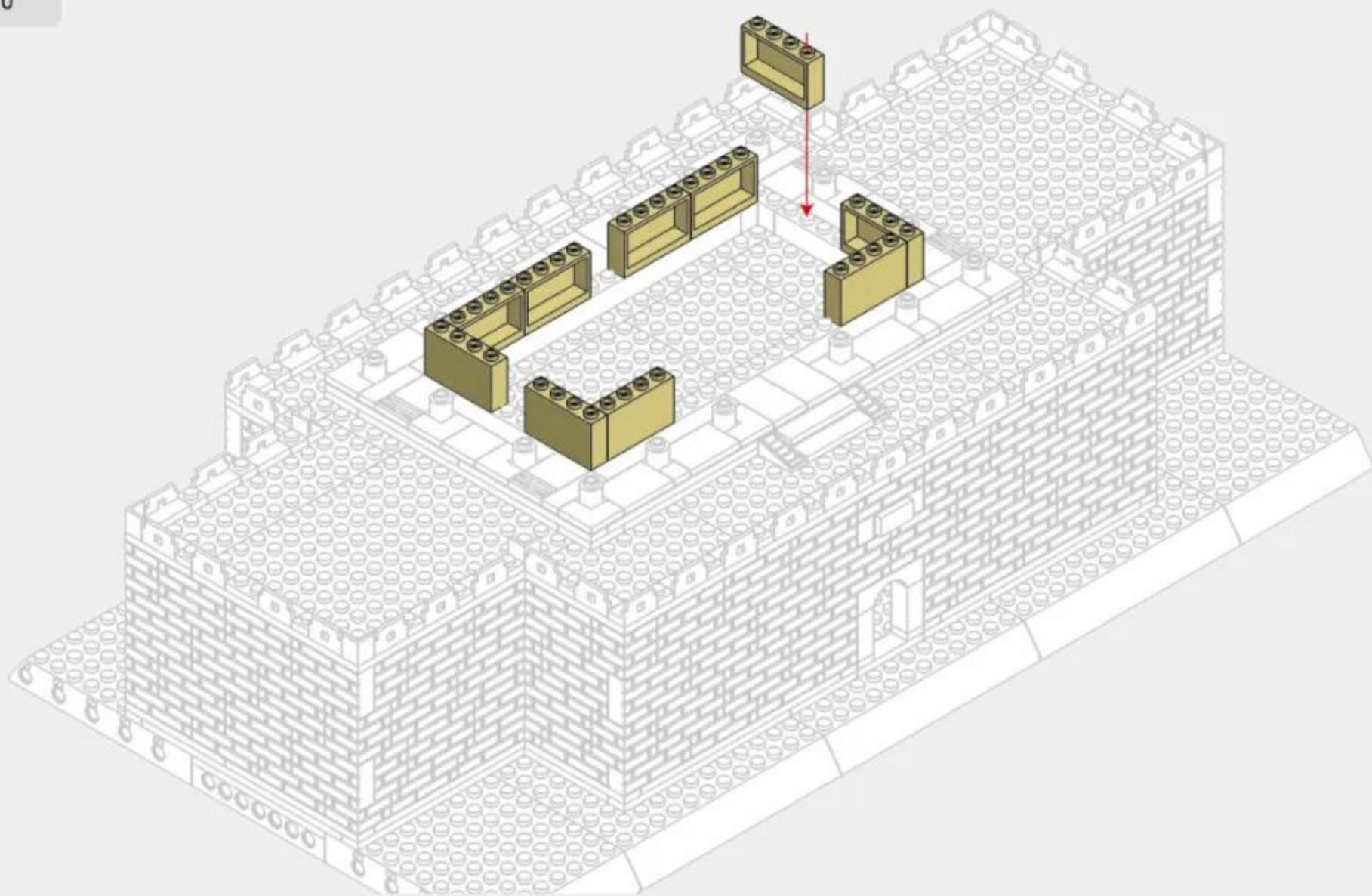
3-6



x16



3-7



3-8



x3

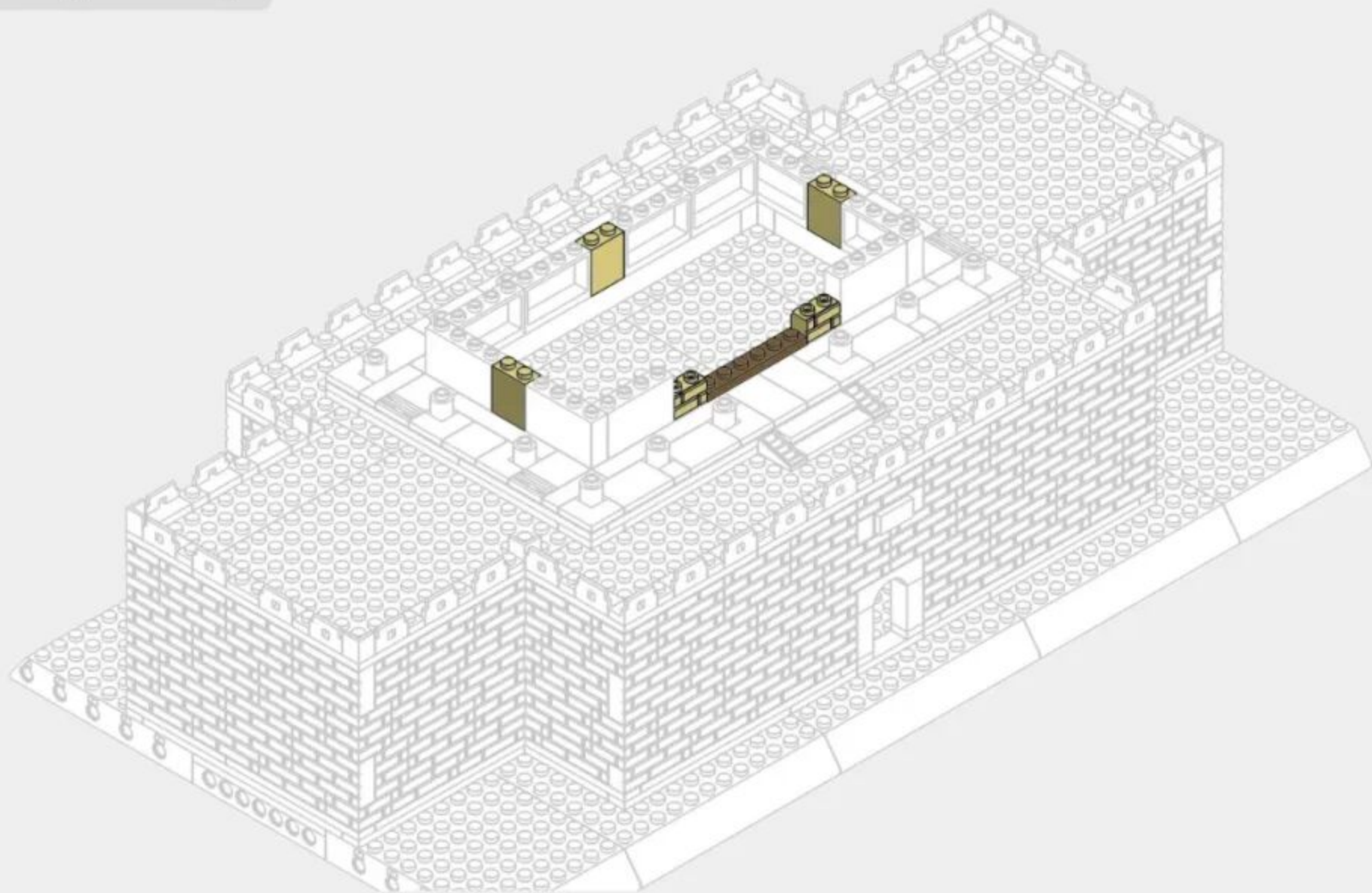
1x6



x1



x2



3-9



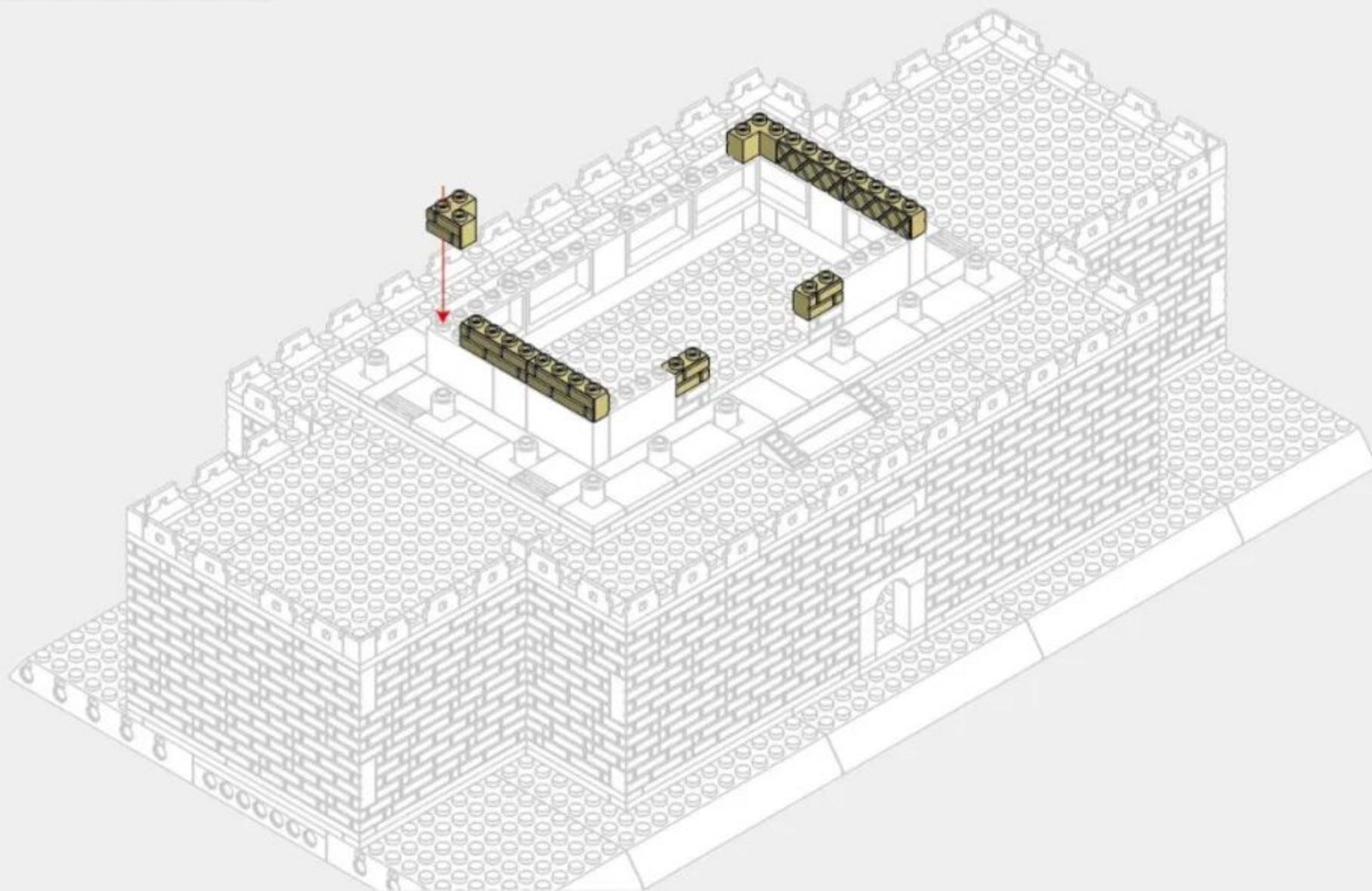
x4



x2



x2



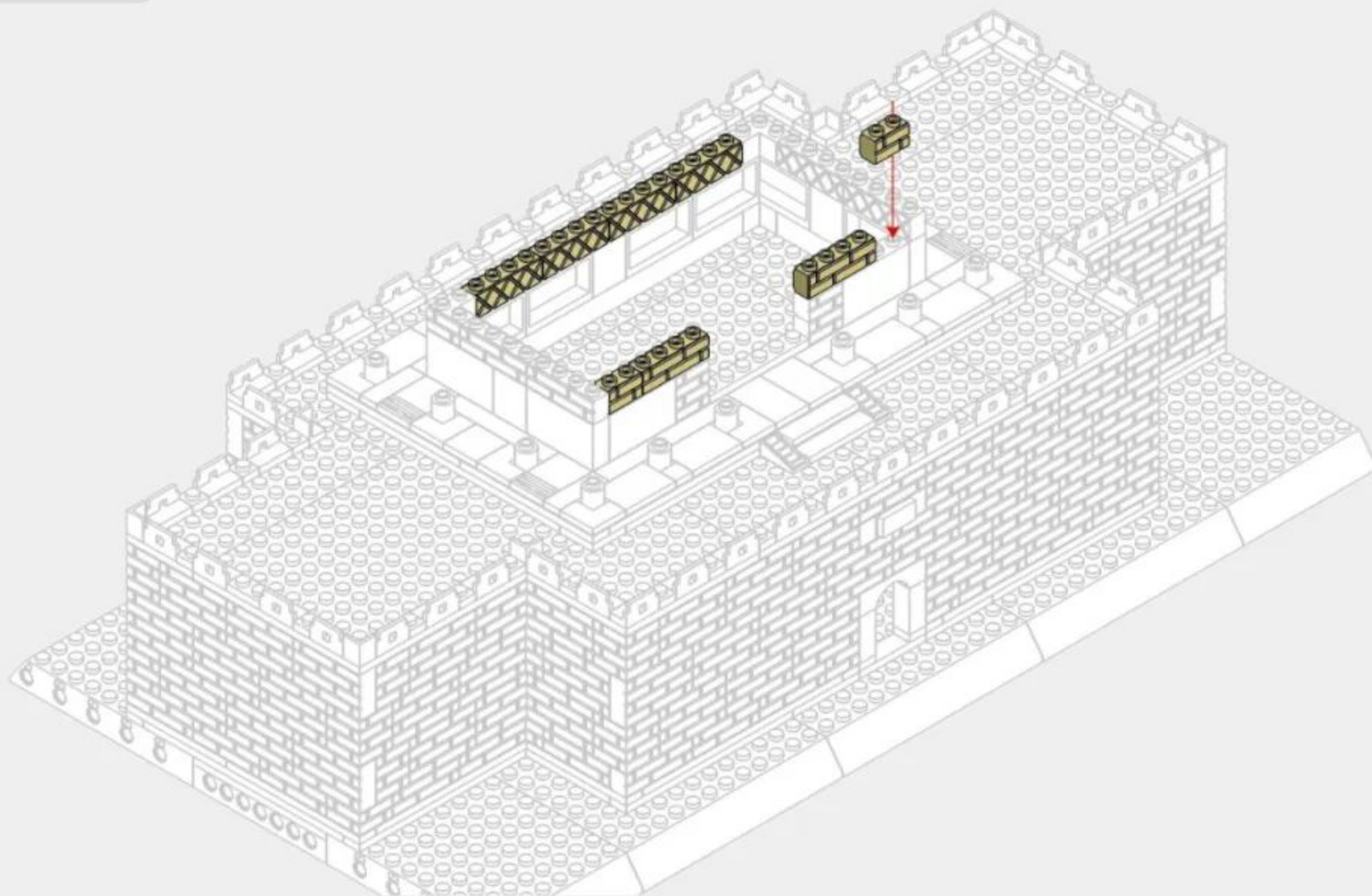
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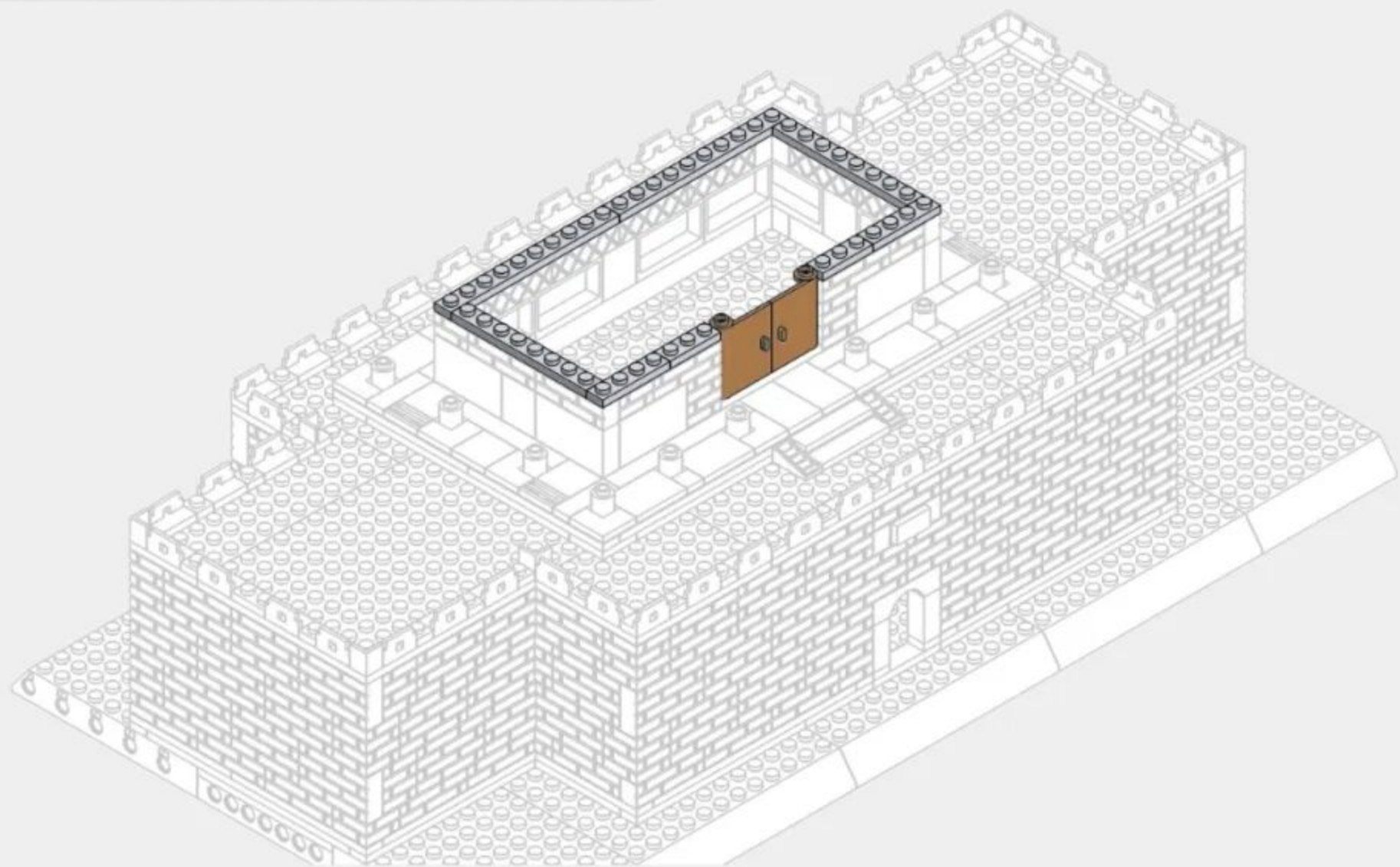
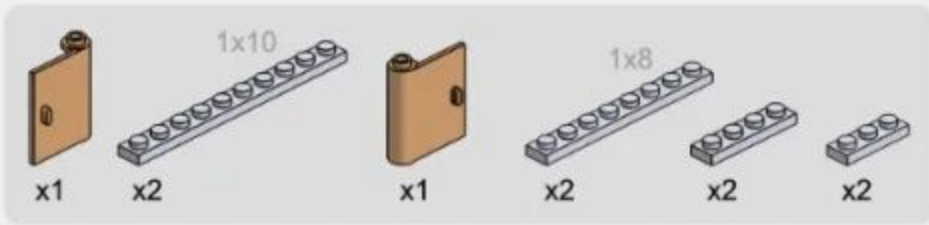
x6



x2

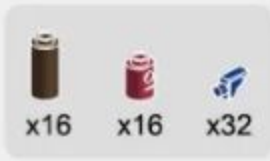


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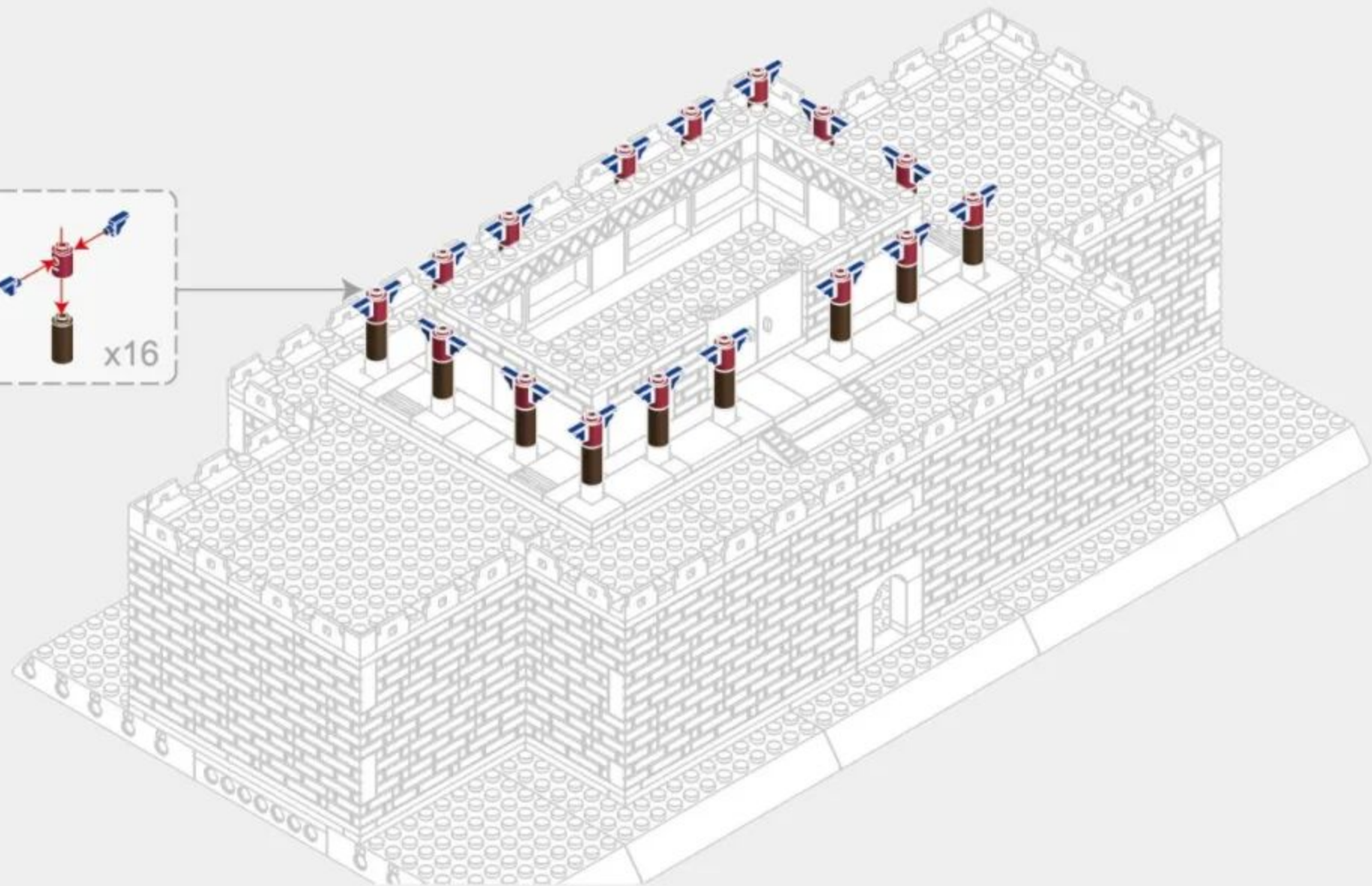


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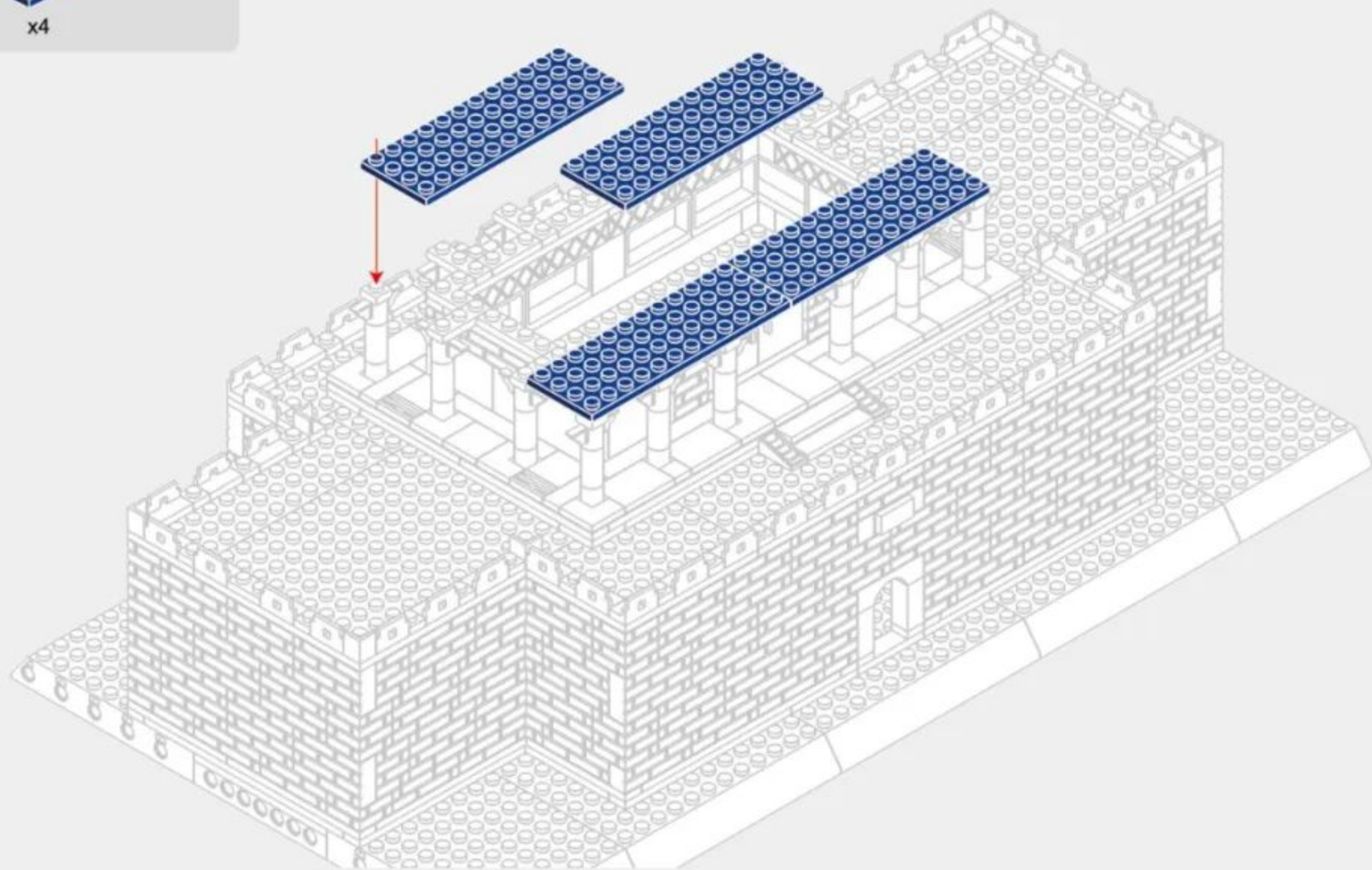
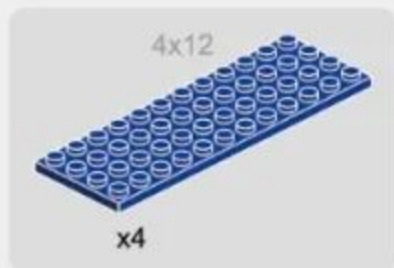
x16 x16 x32



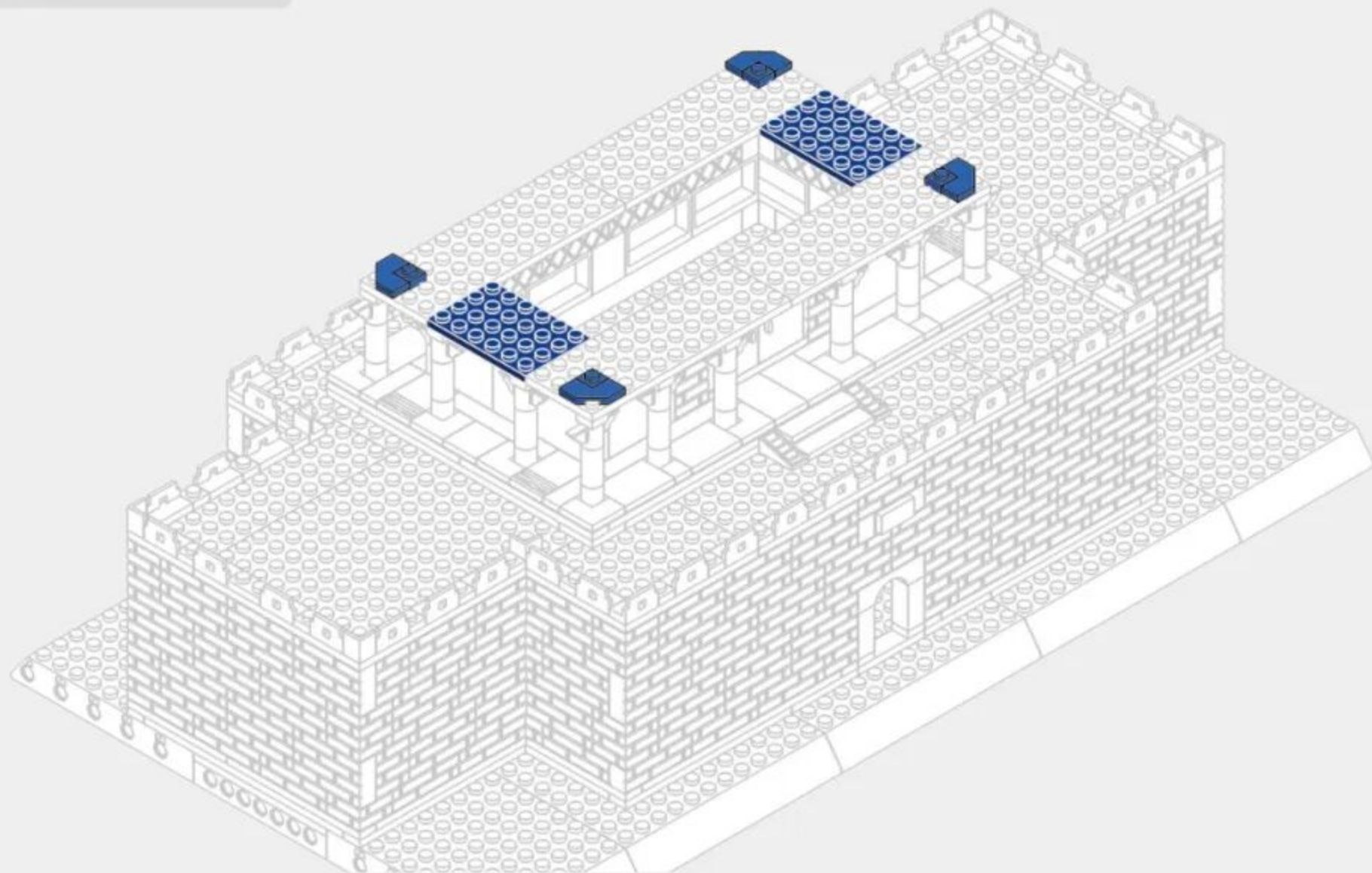
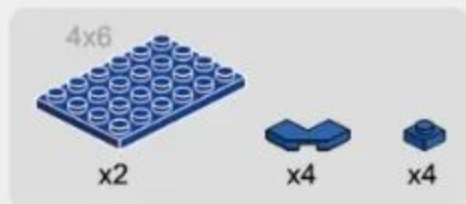
x16



3-14



3-15



3-17



x2



x2



x2



x2



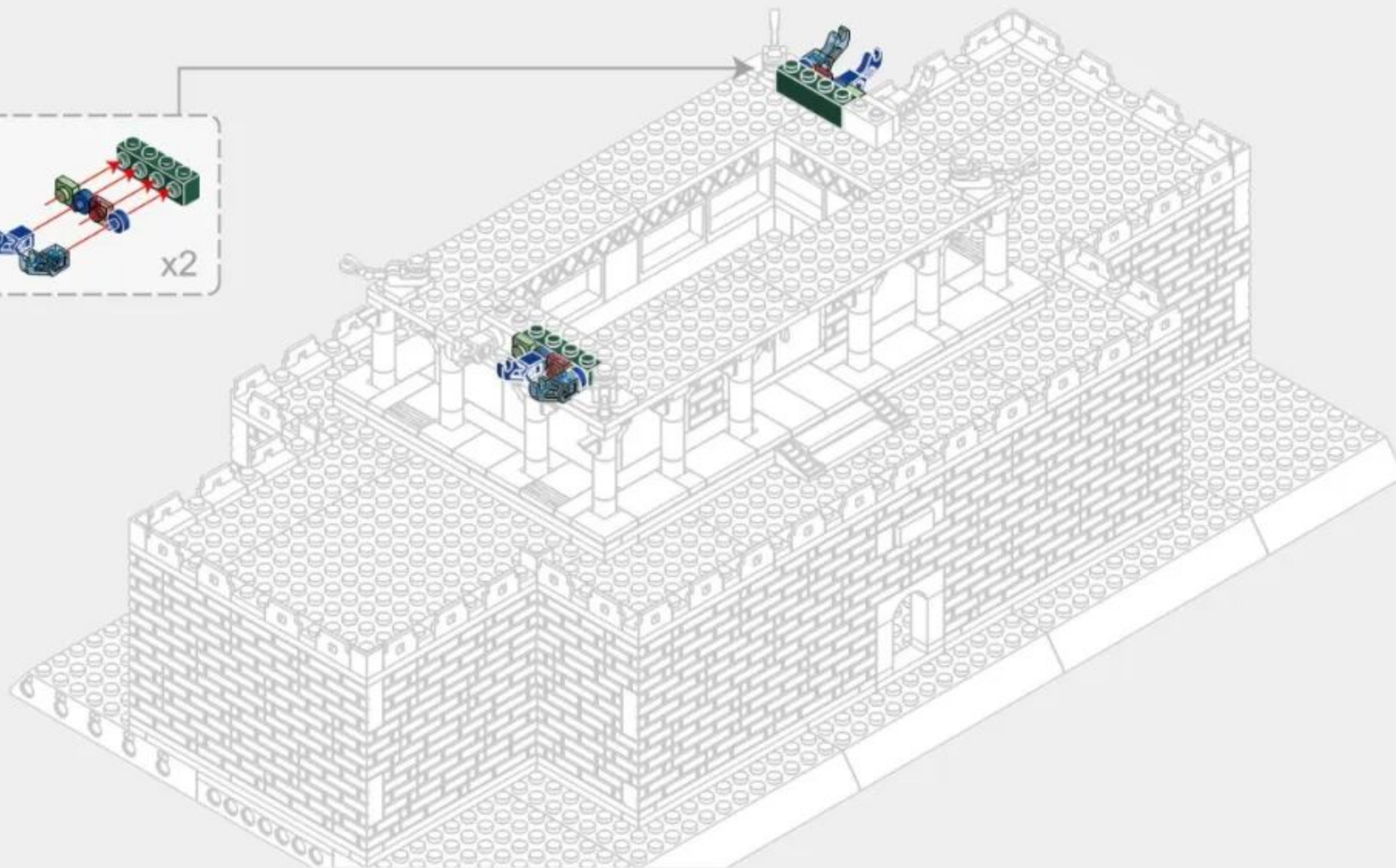
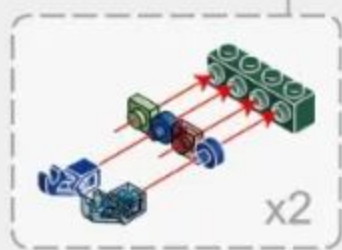
x2



x2



x2



3-18



x2



x2



x2



x2



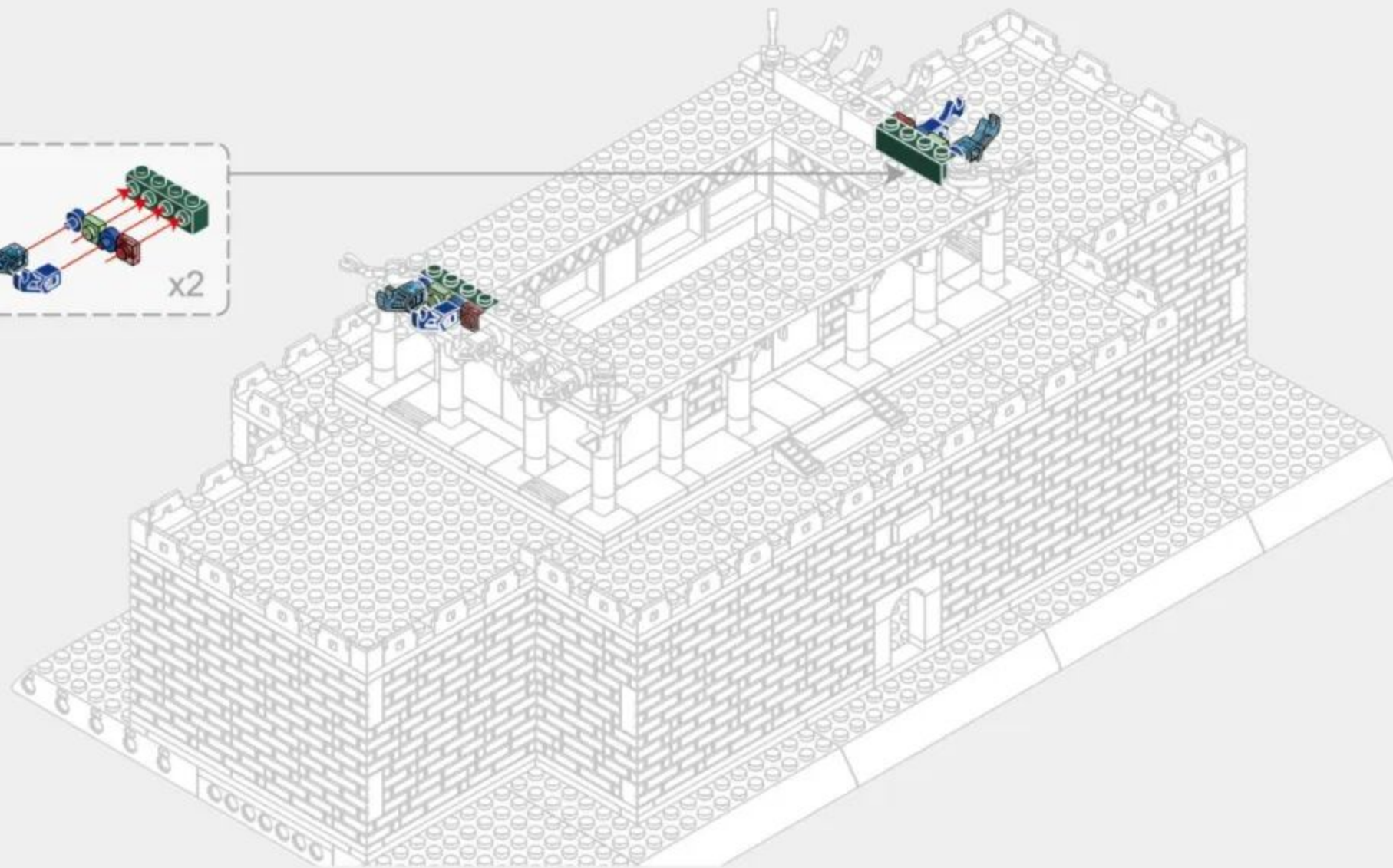
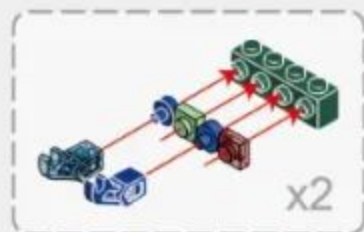
x2



x2

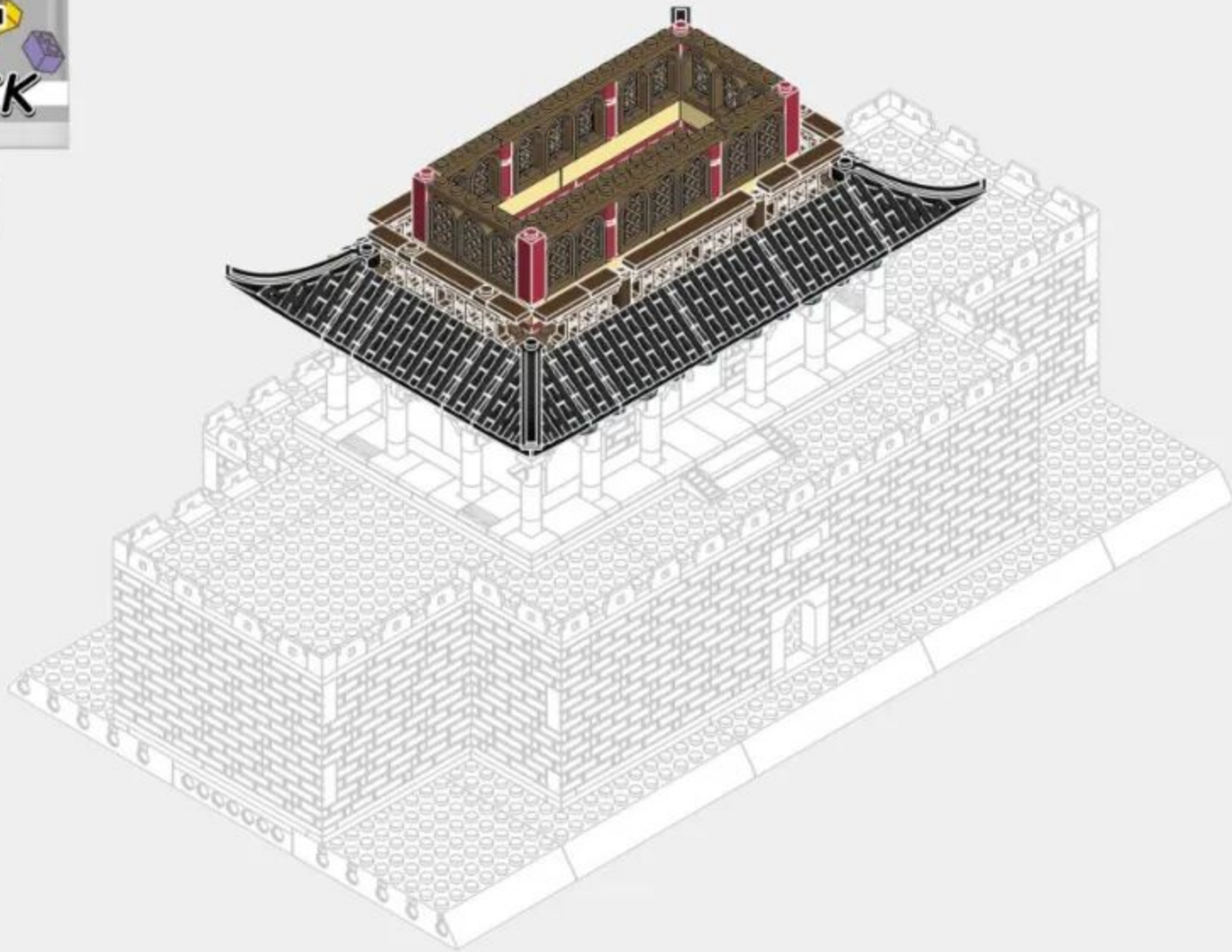


x2

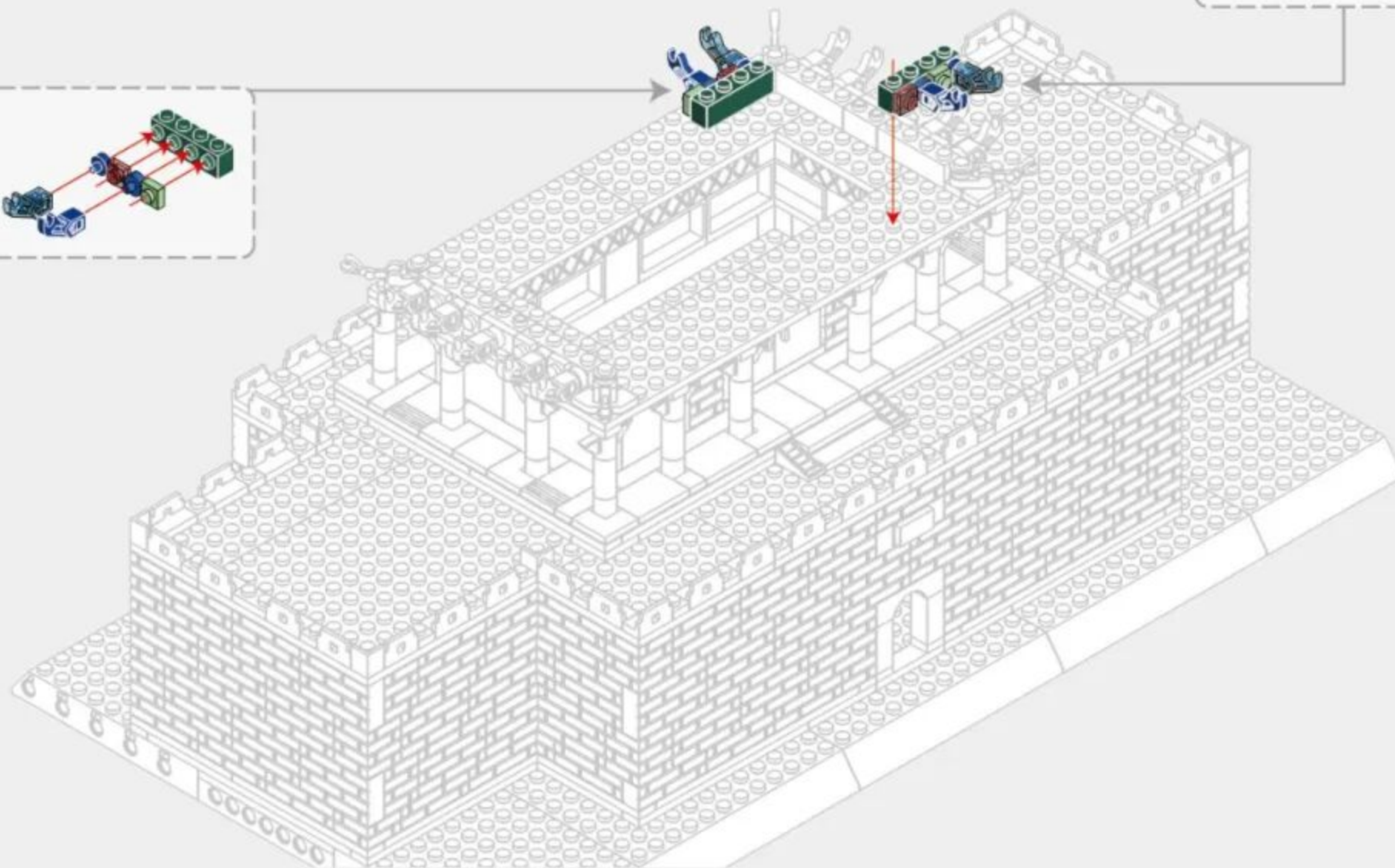
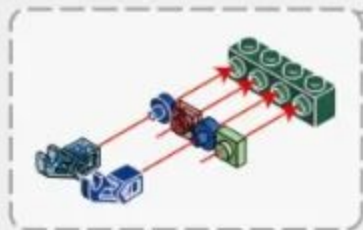
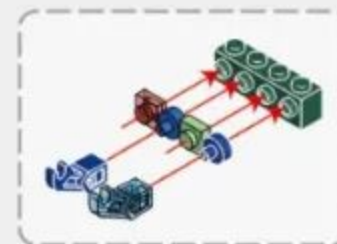




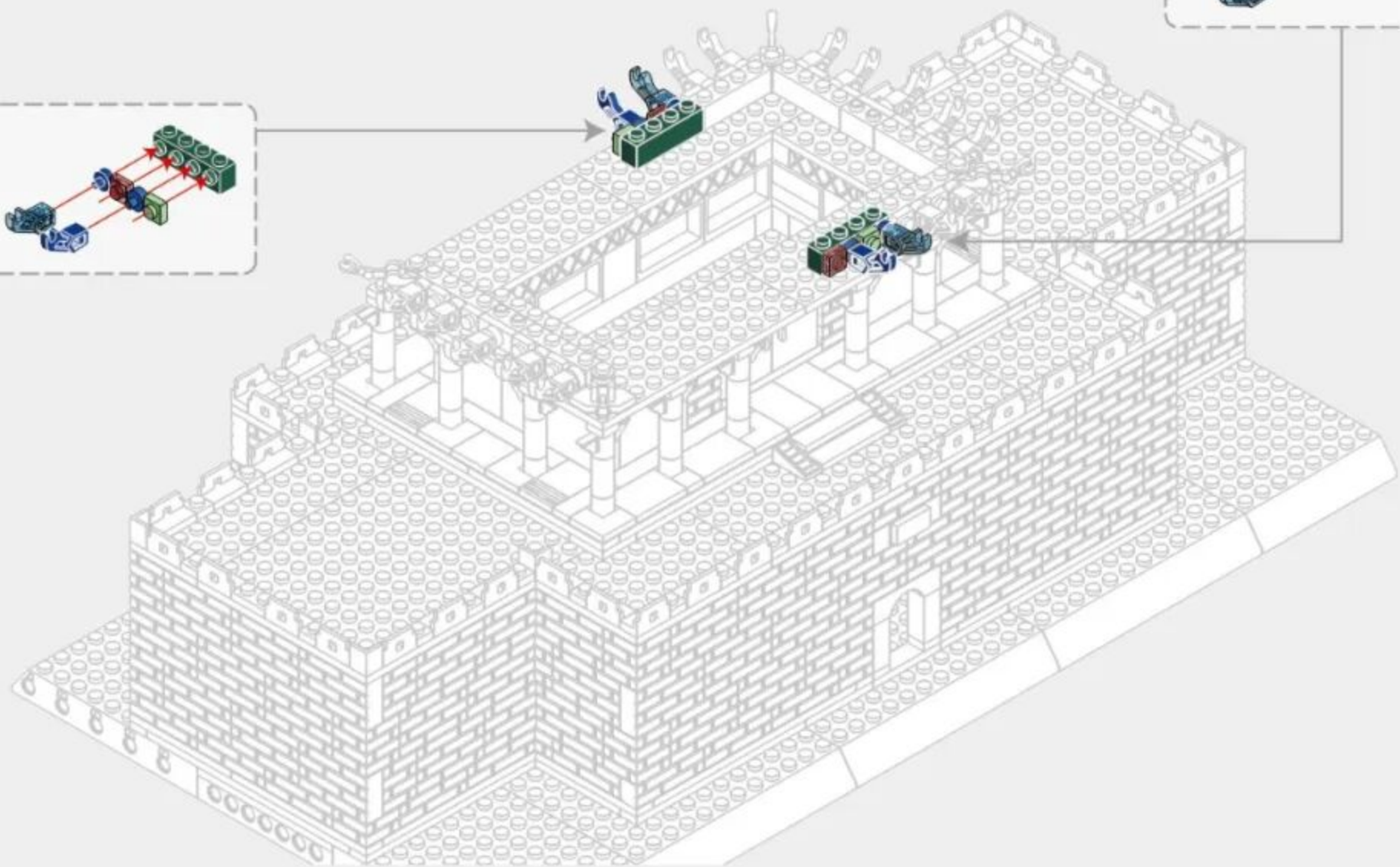
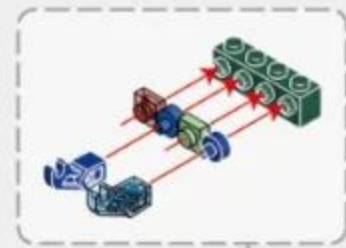
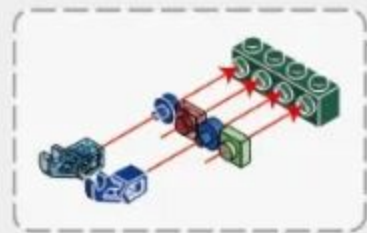
238PCS



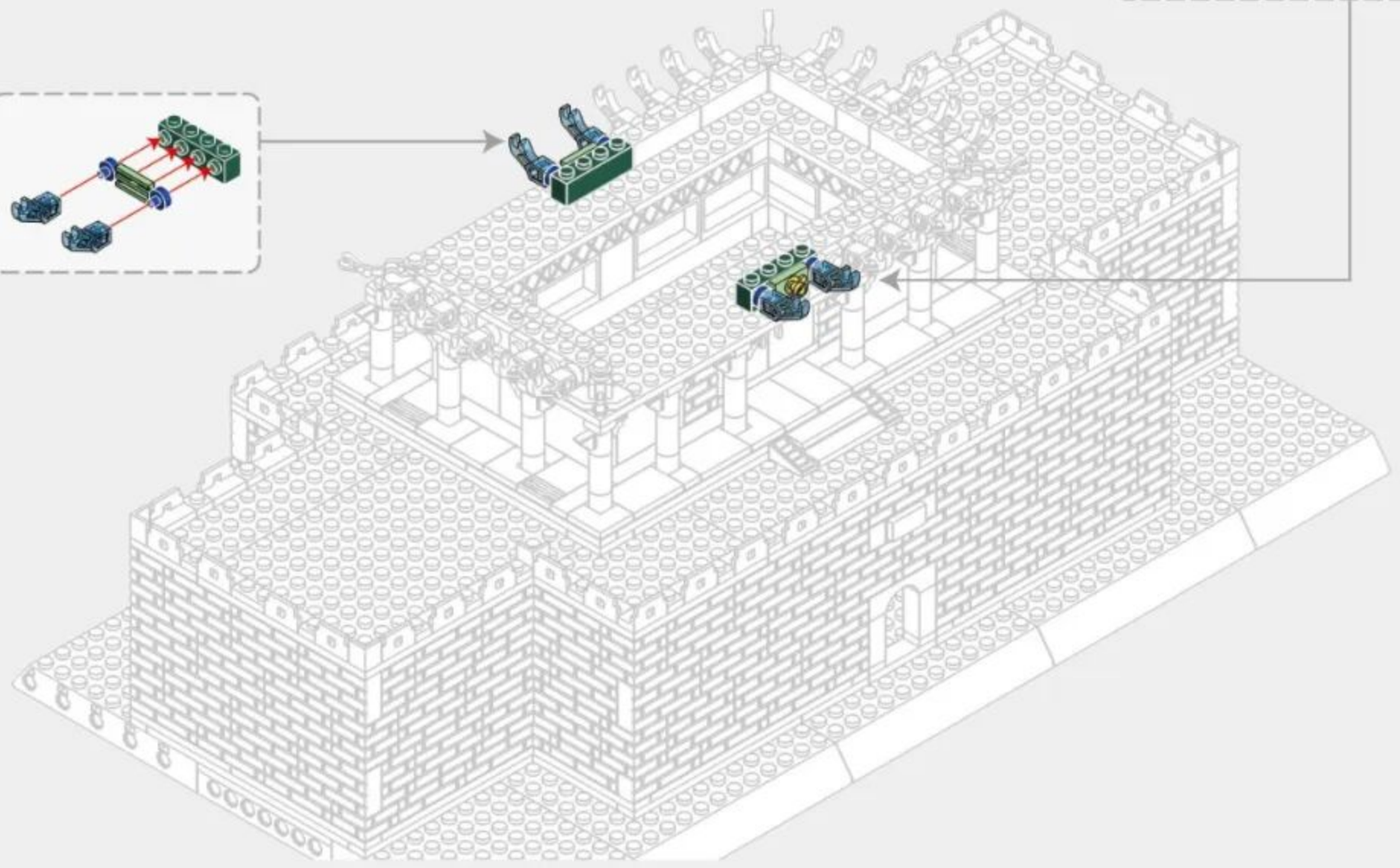
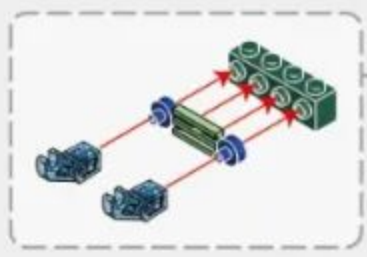
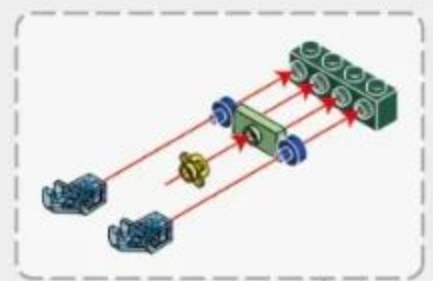
4-1



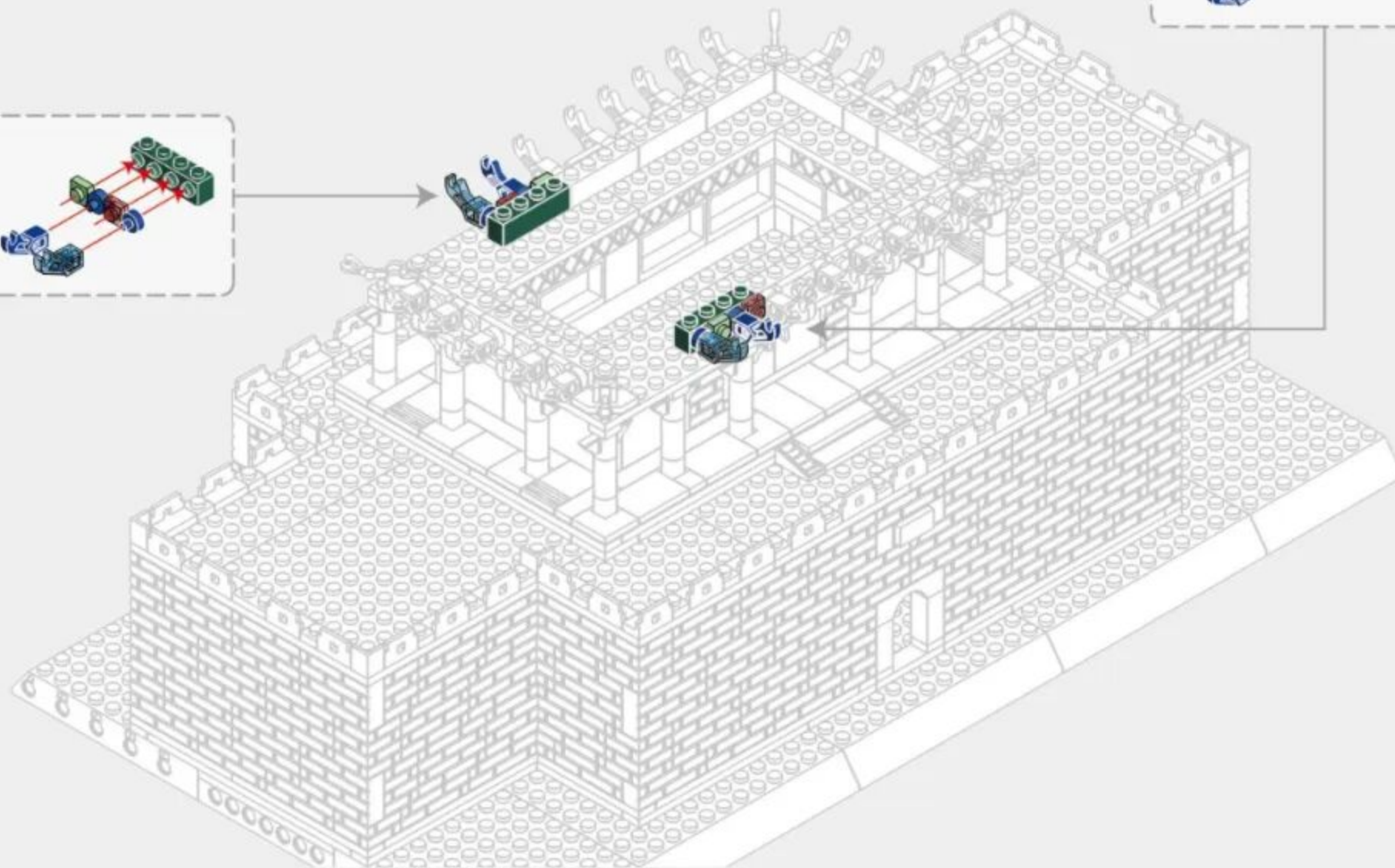
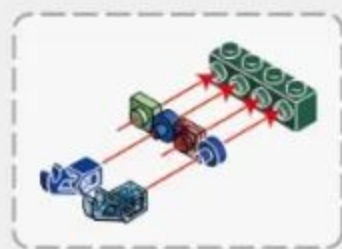
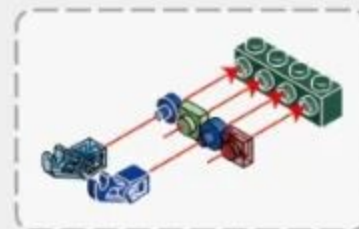
4-2



4-3

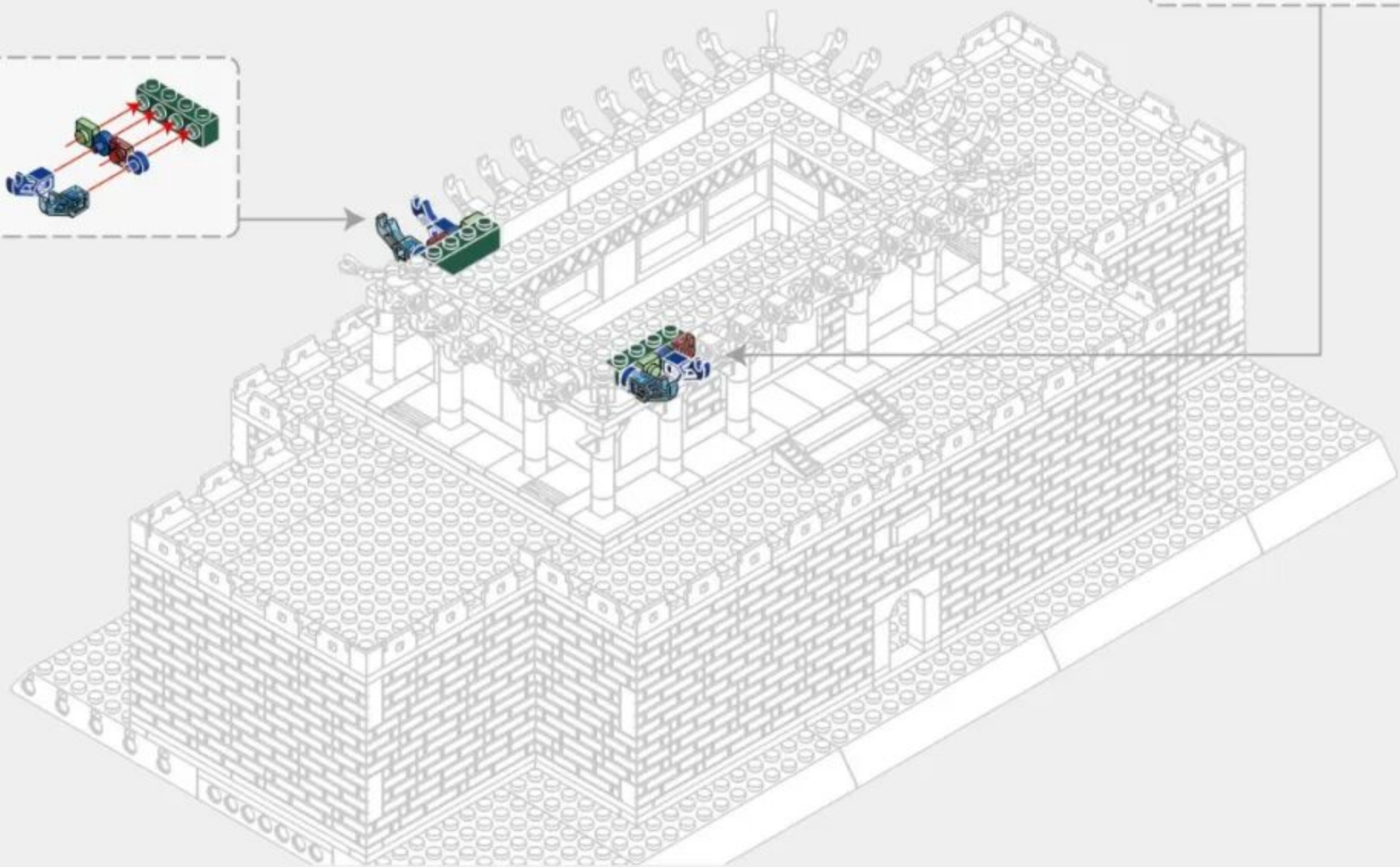
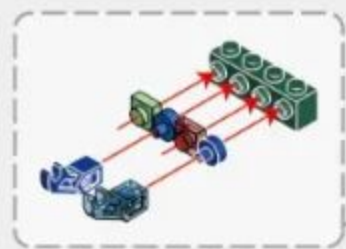
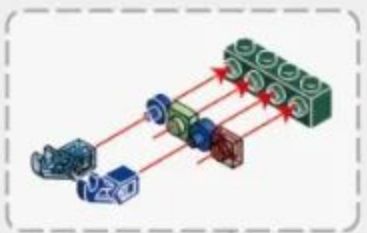


4-4

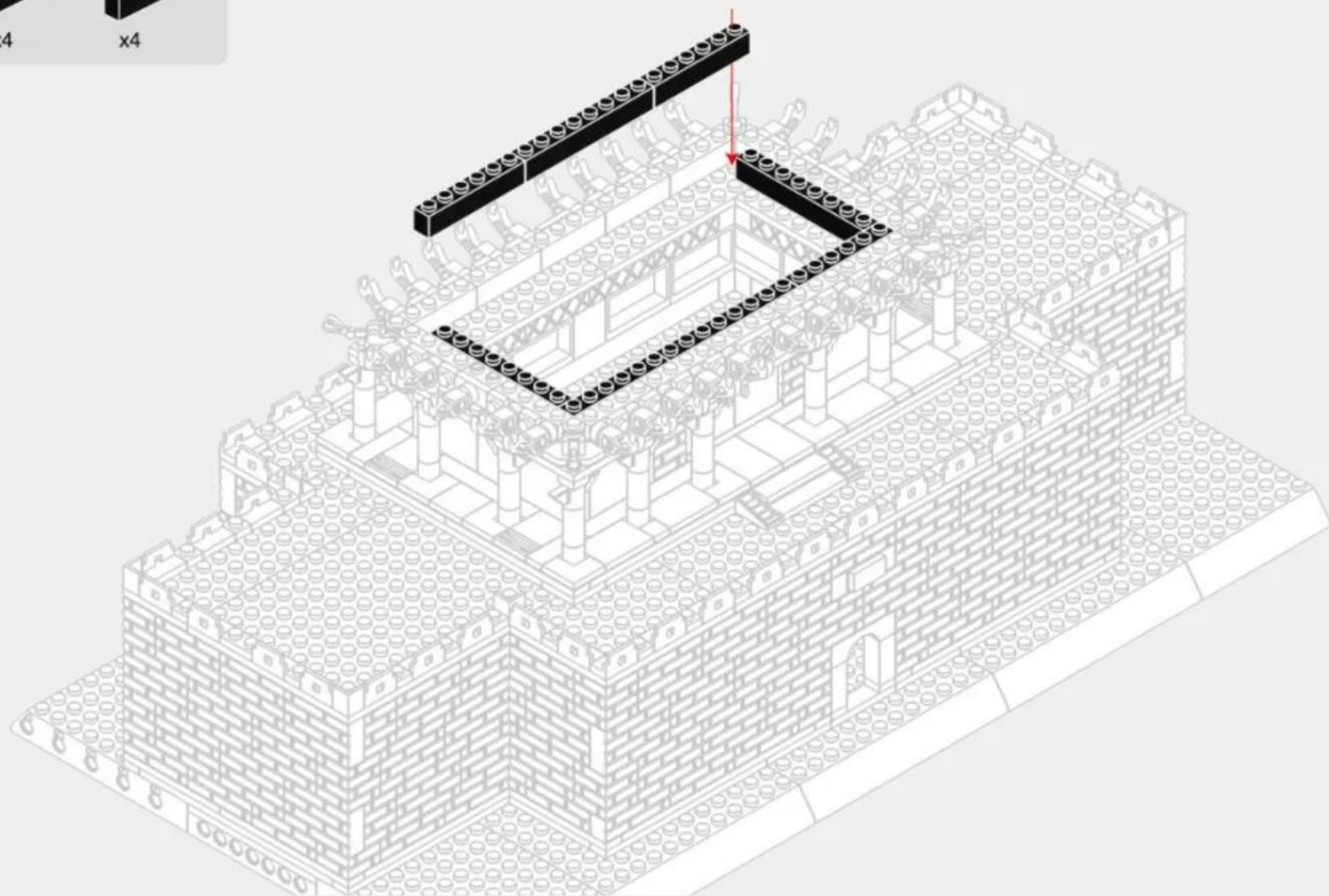
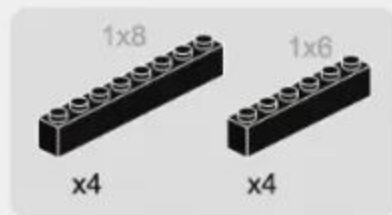


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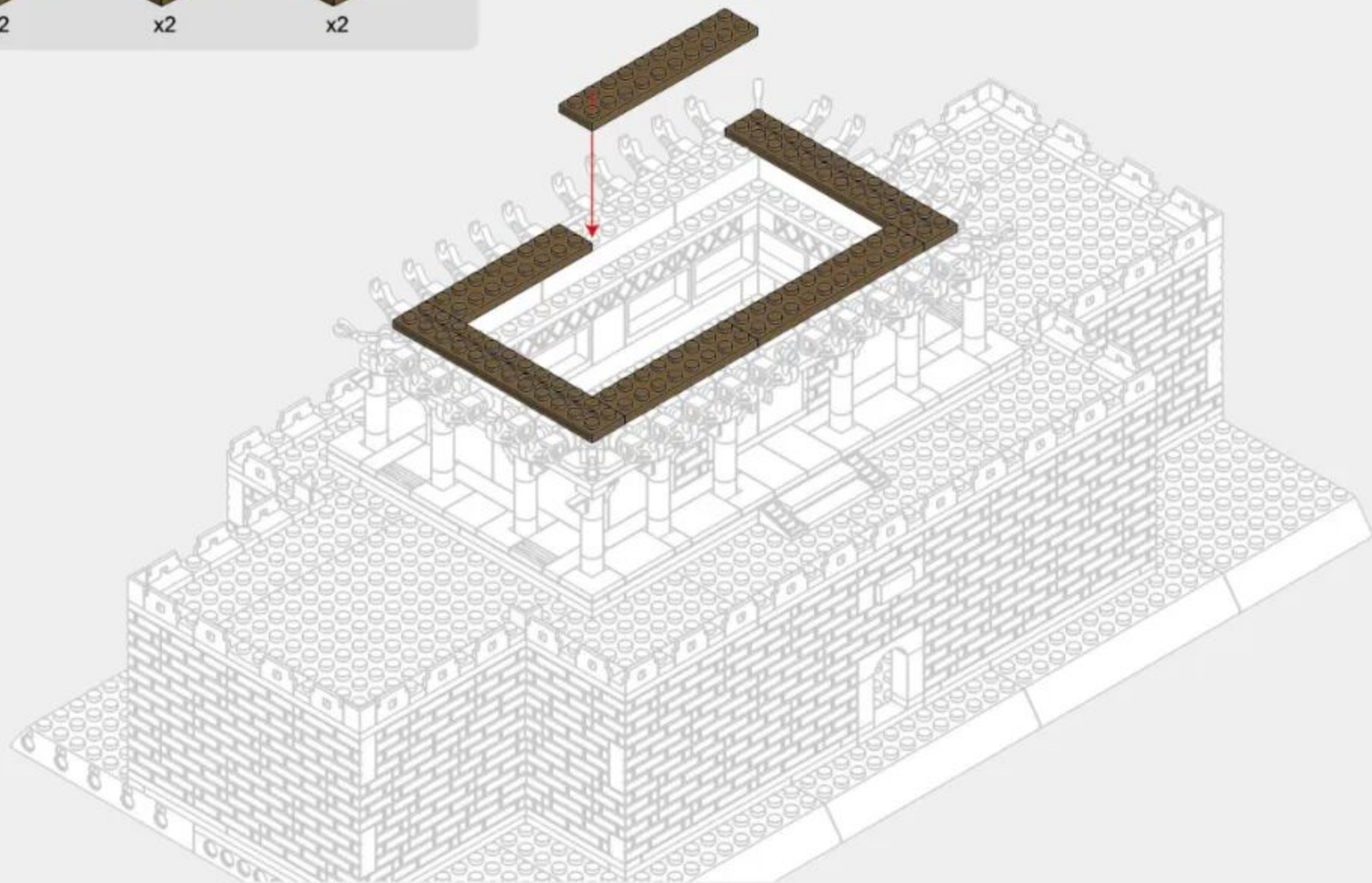
-  x2
-  x2
-  x2
-  x2
-  x2
-  x2
-  x2



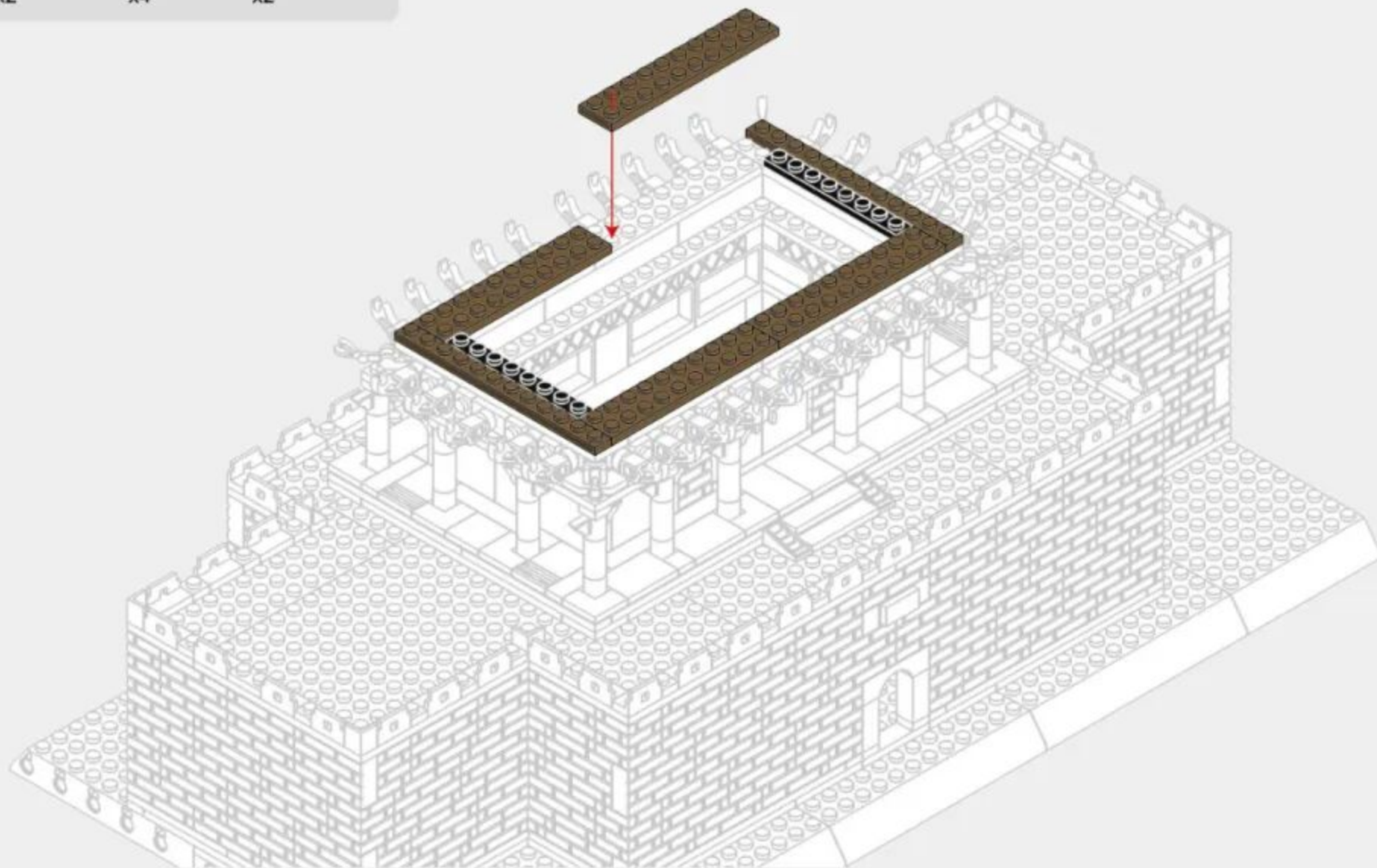
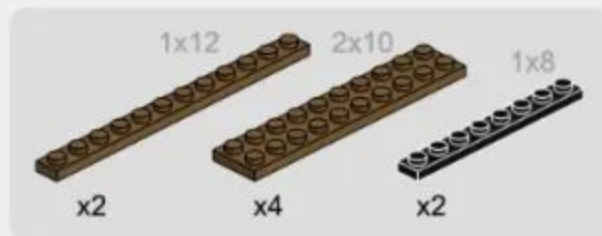
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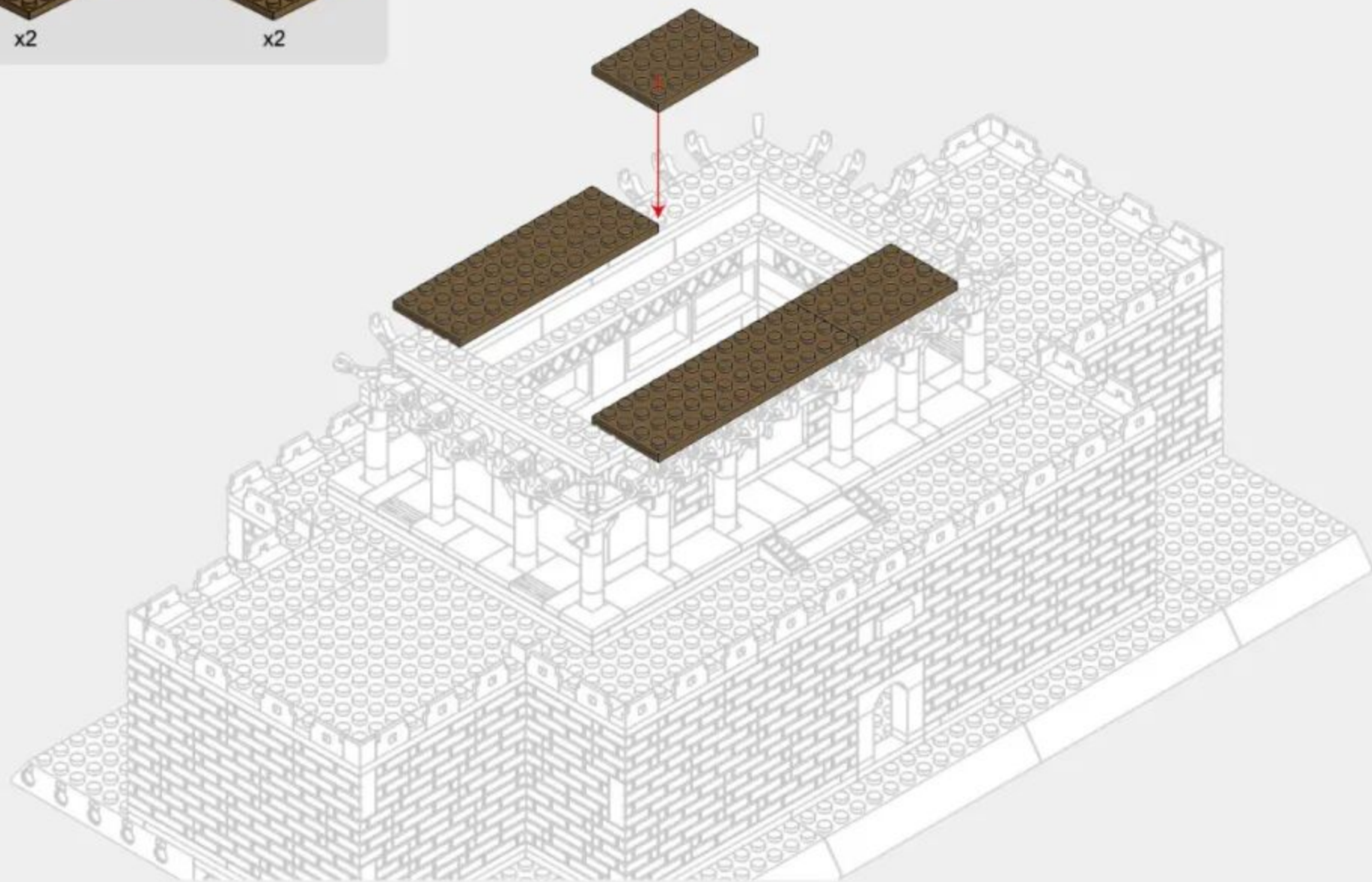
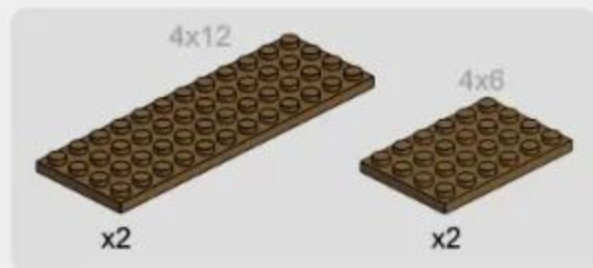
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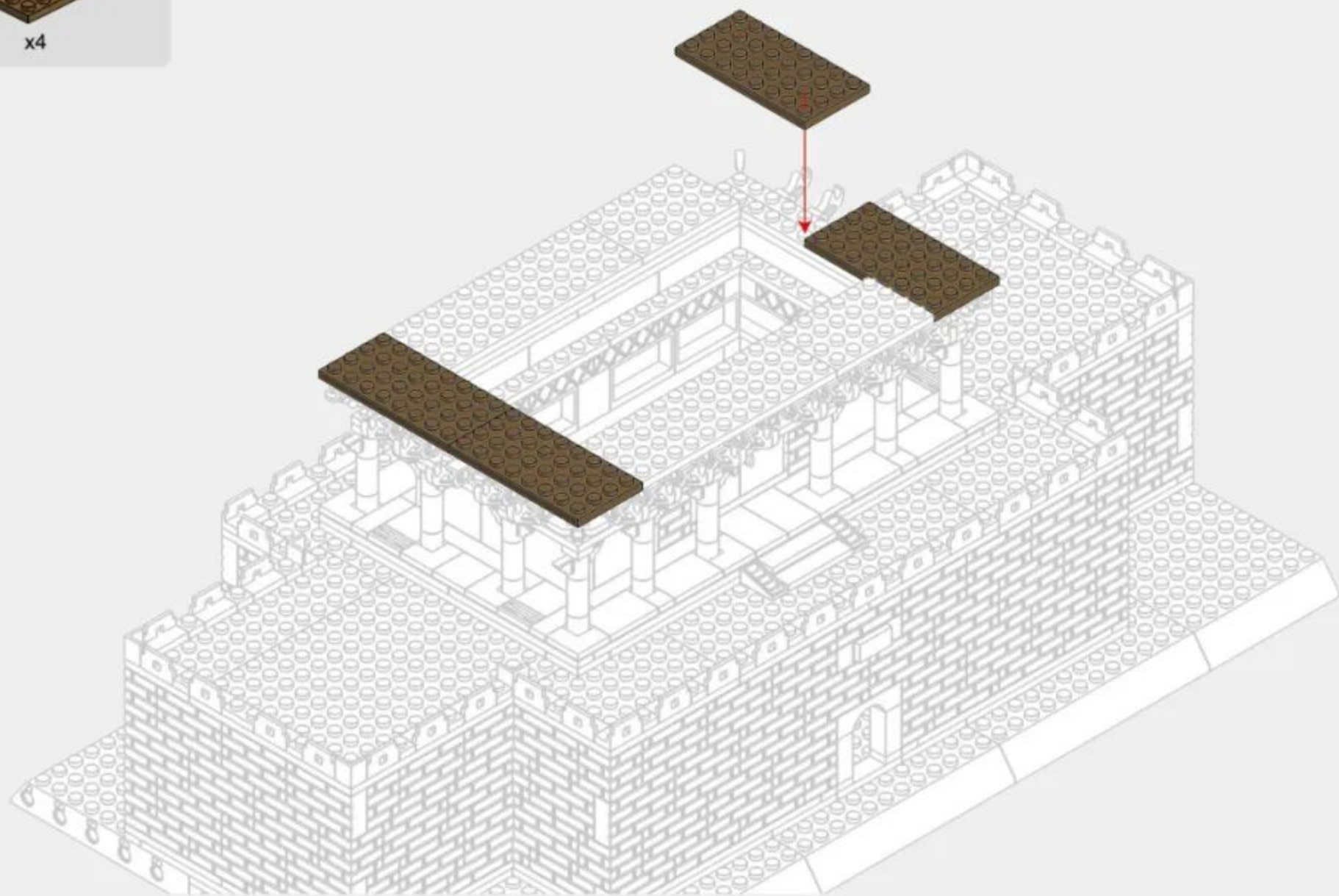
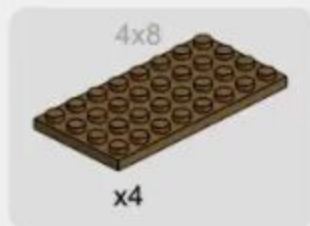
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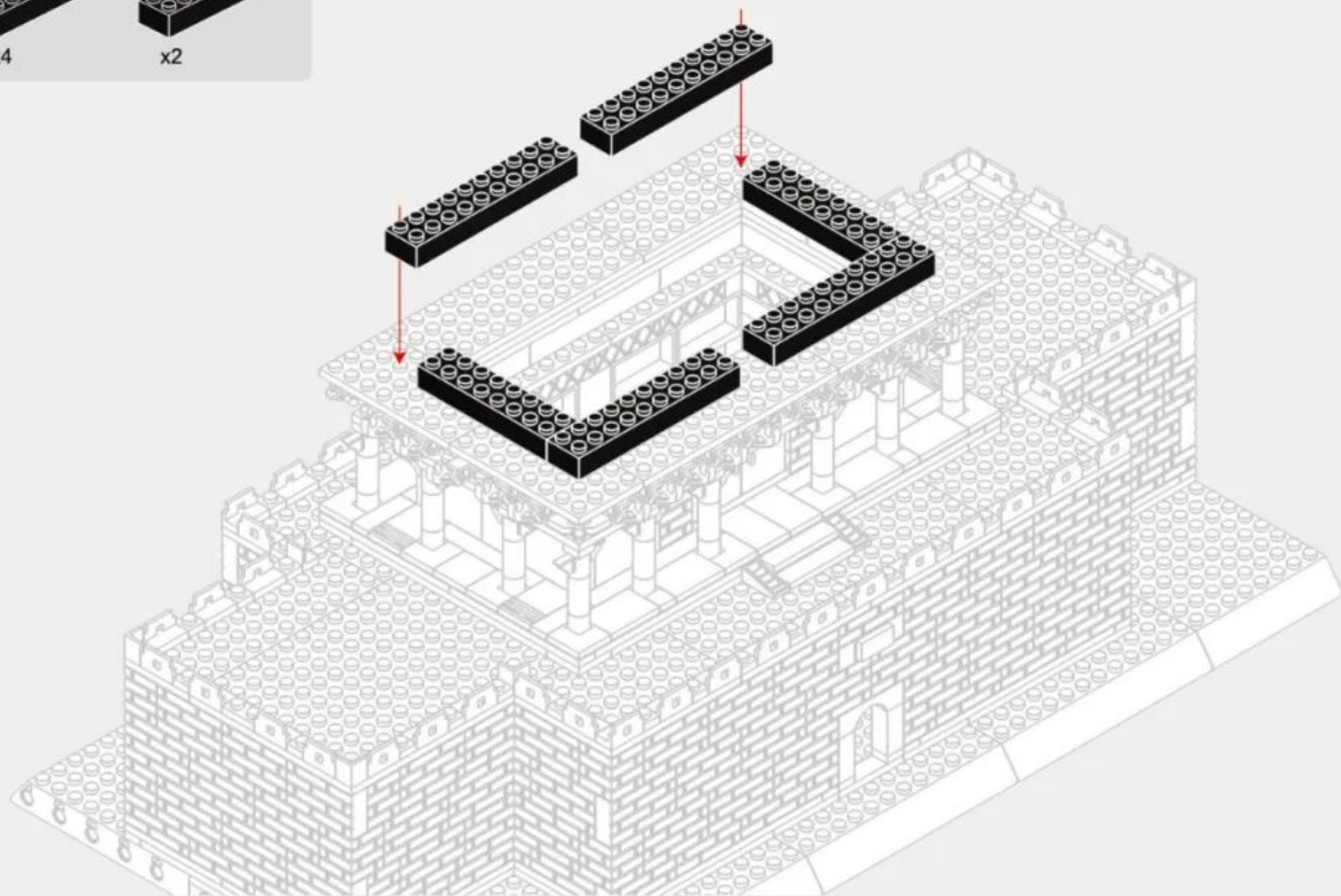
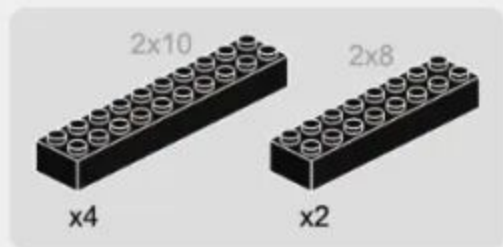
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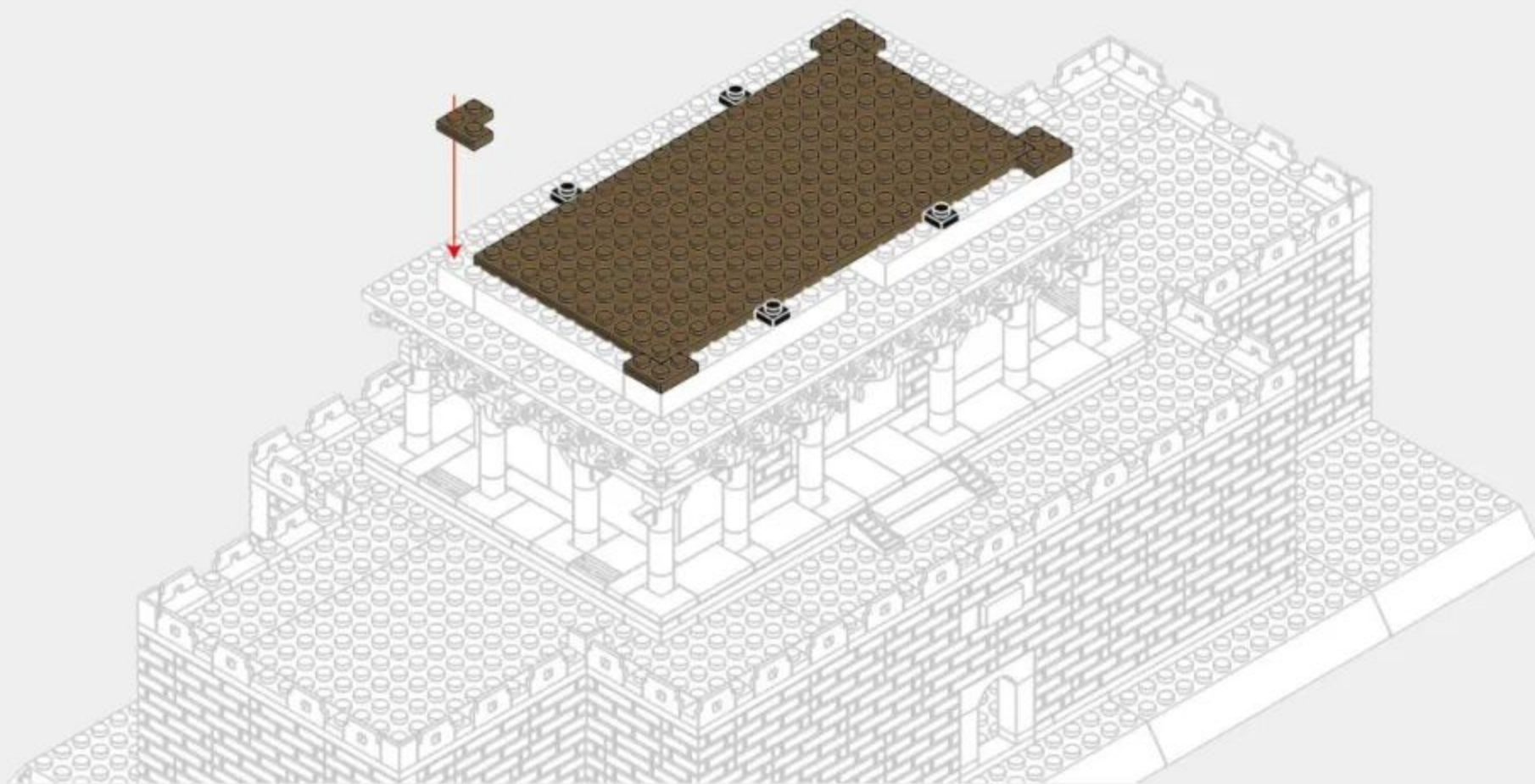
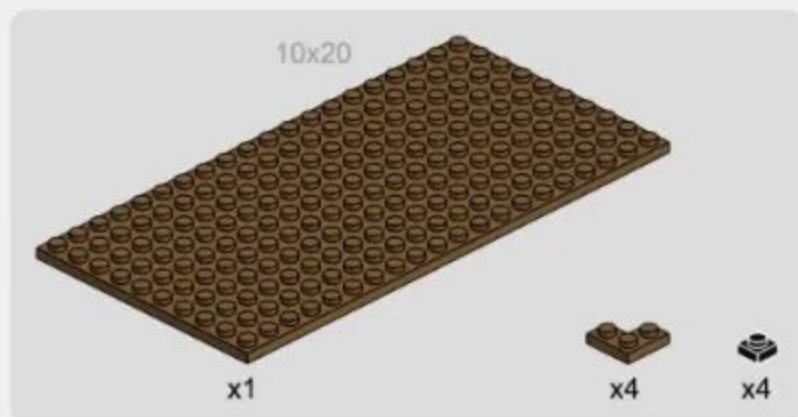
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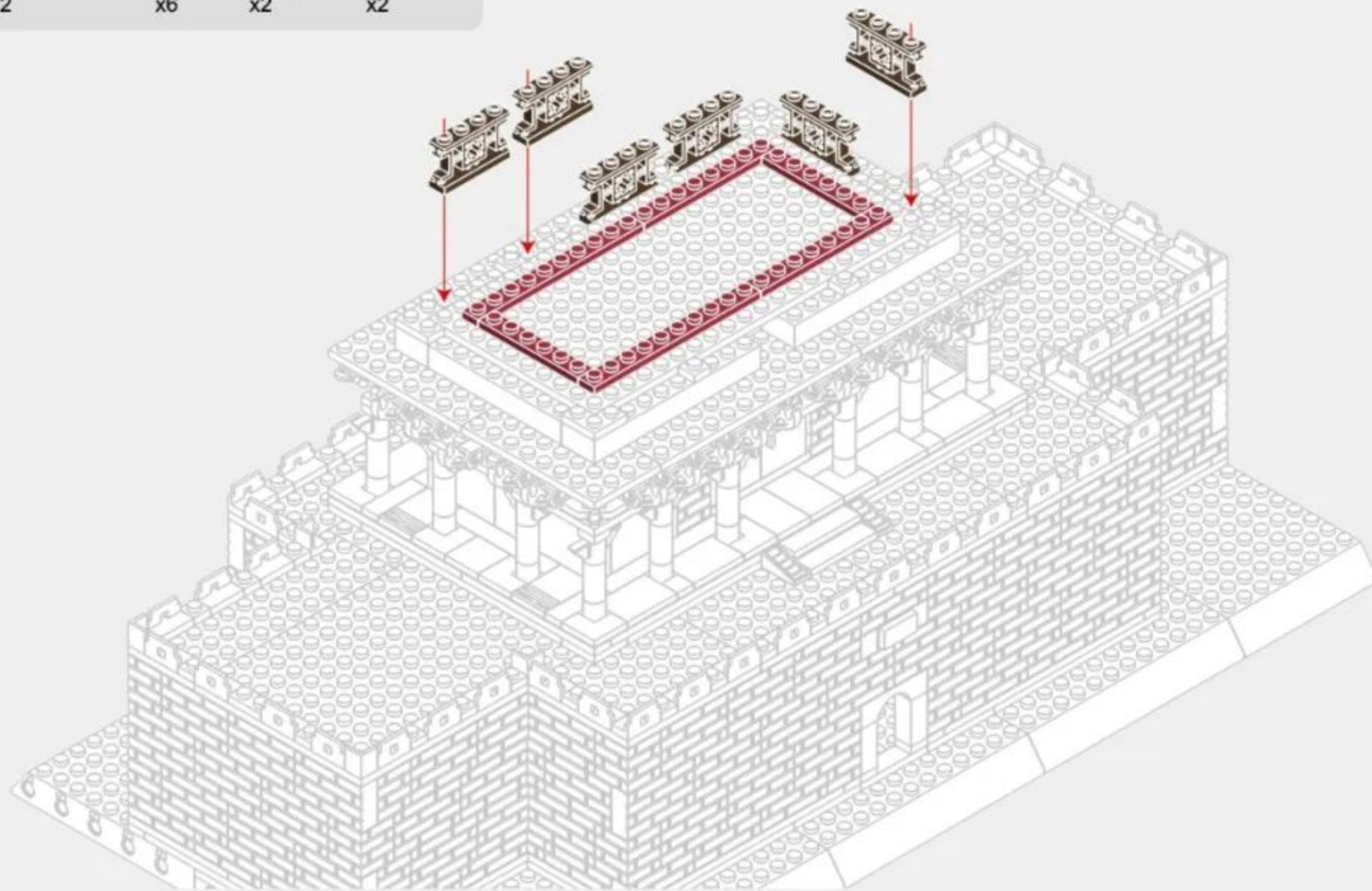
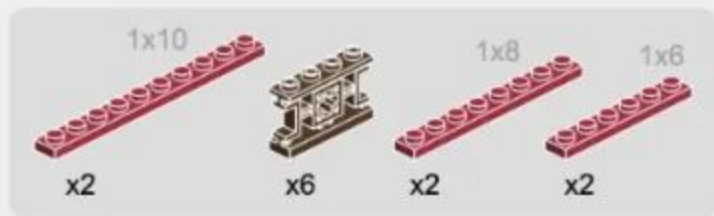
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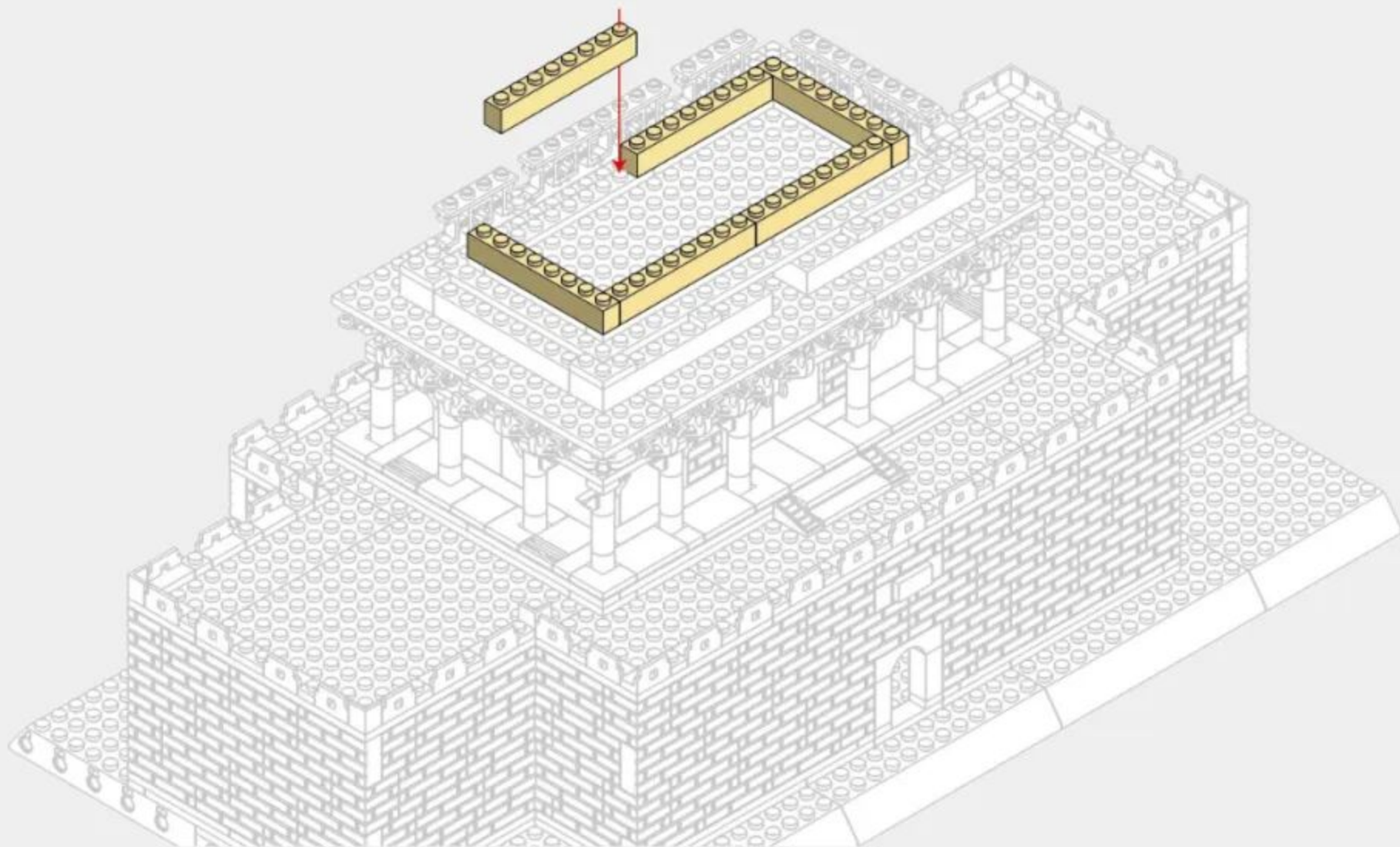
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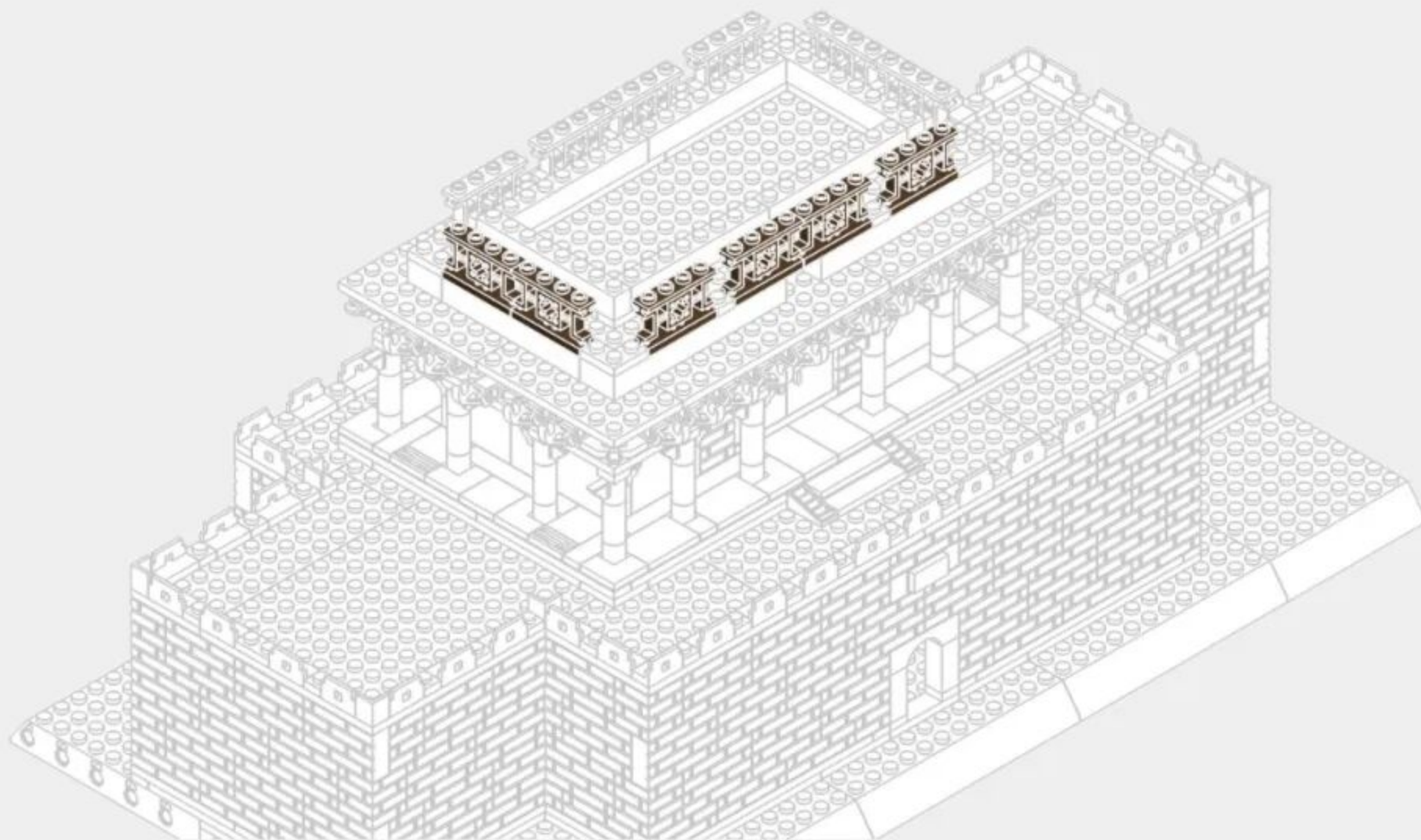
4-13



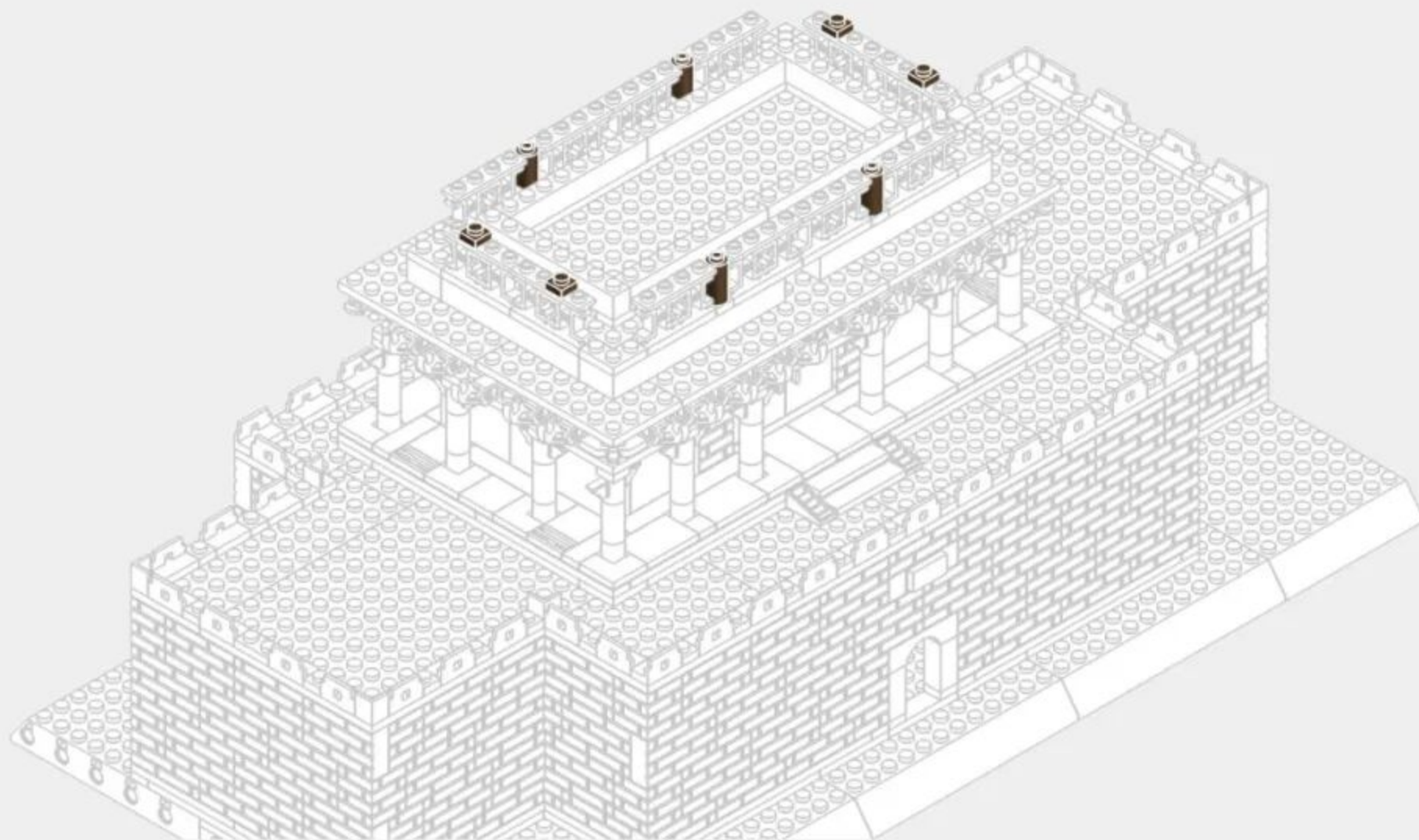
4-14



4-15



4-16



4-18



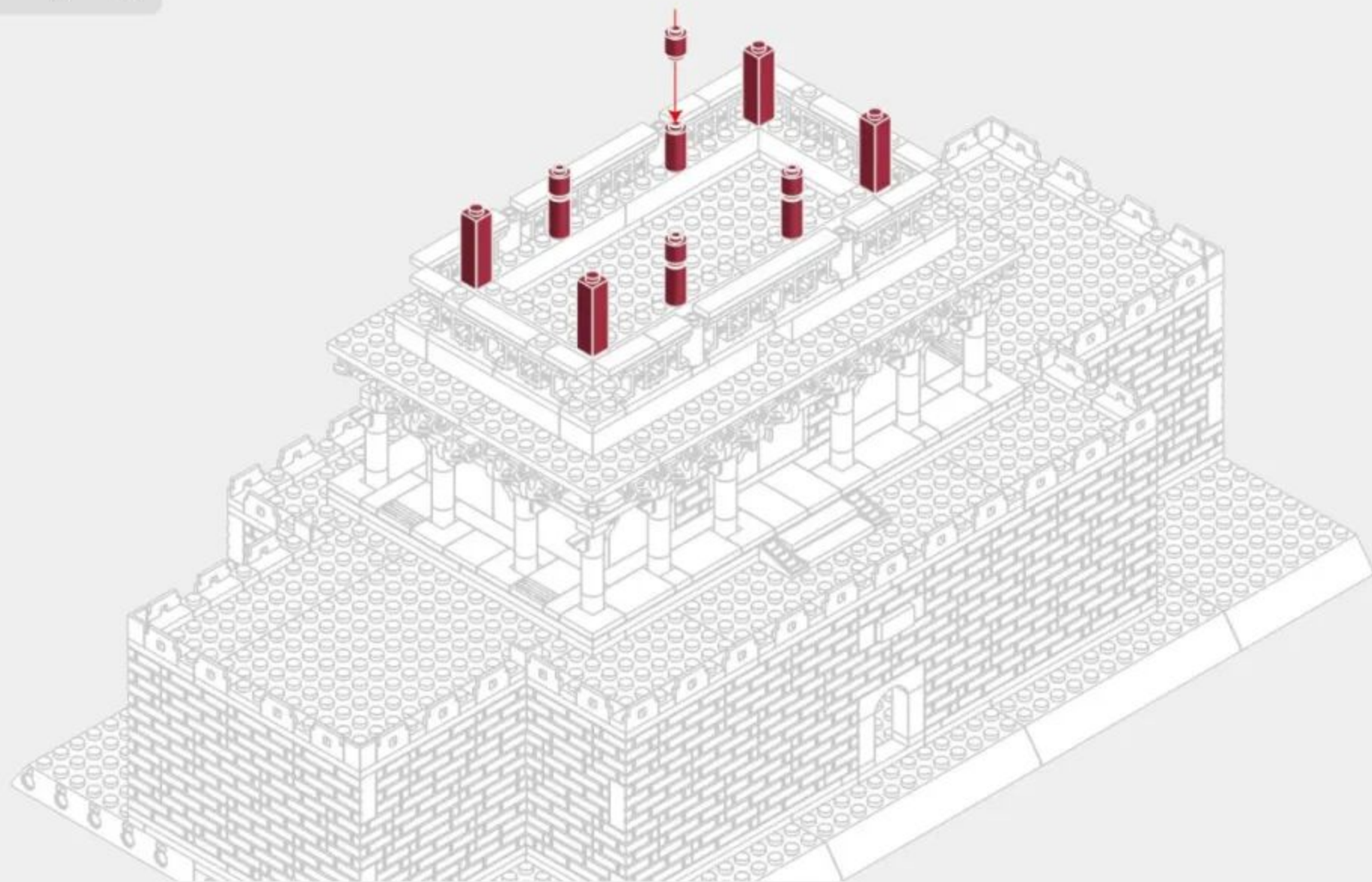
x4



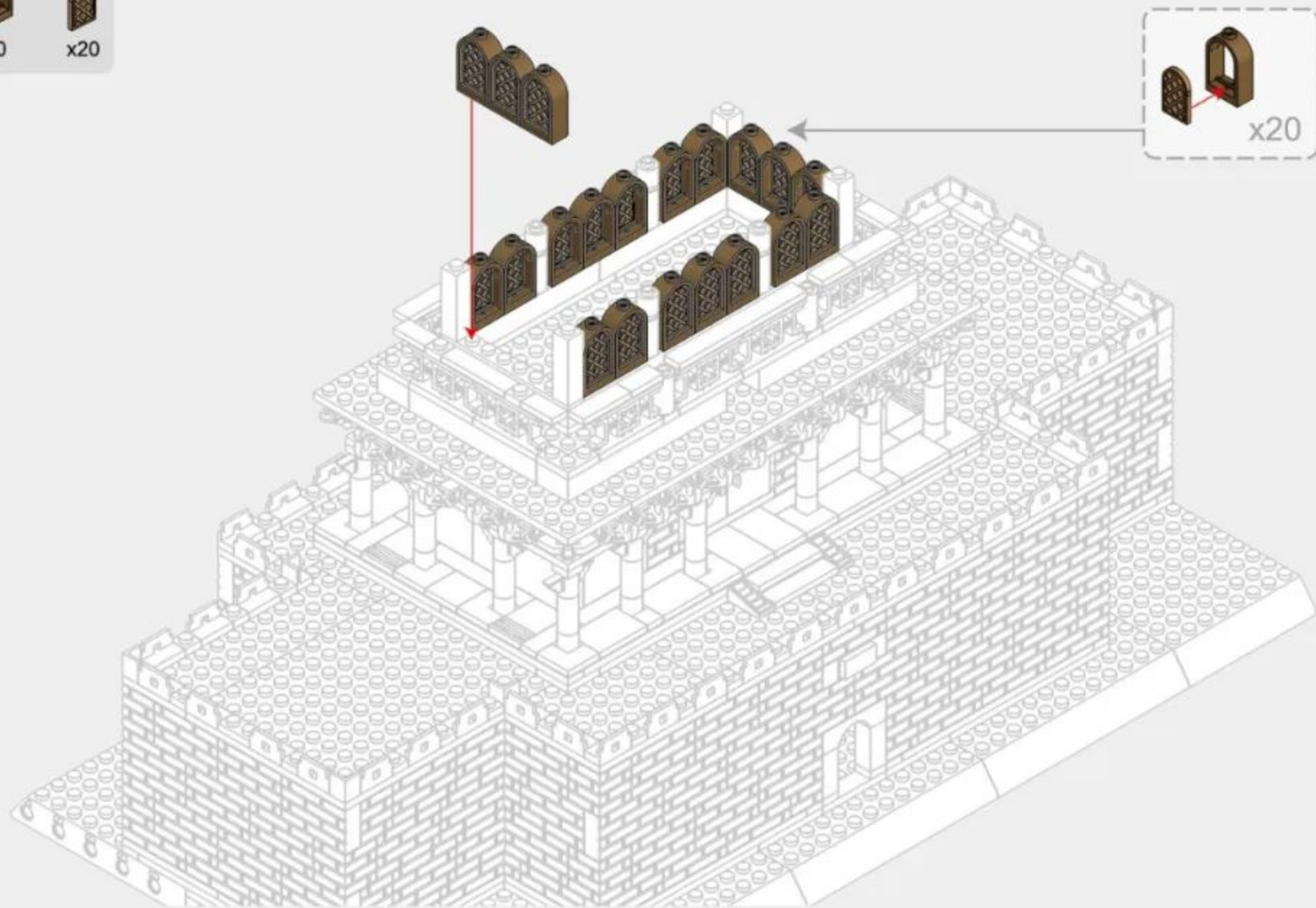
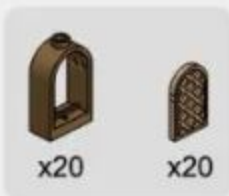
x4



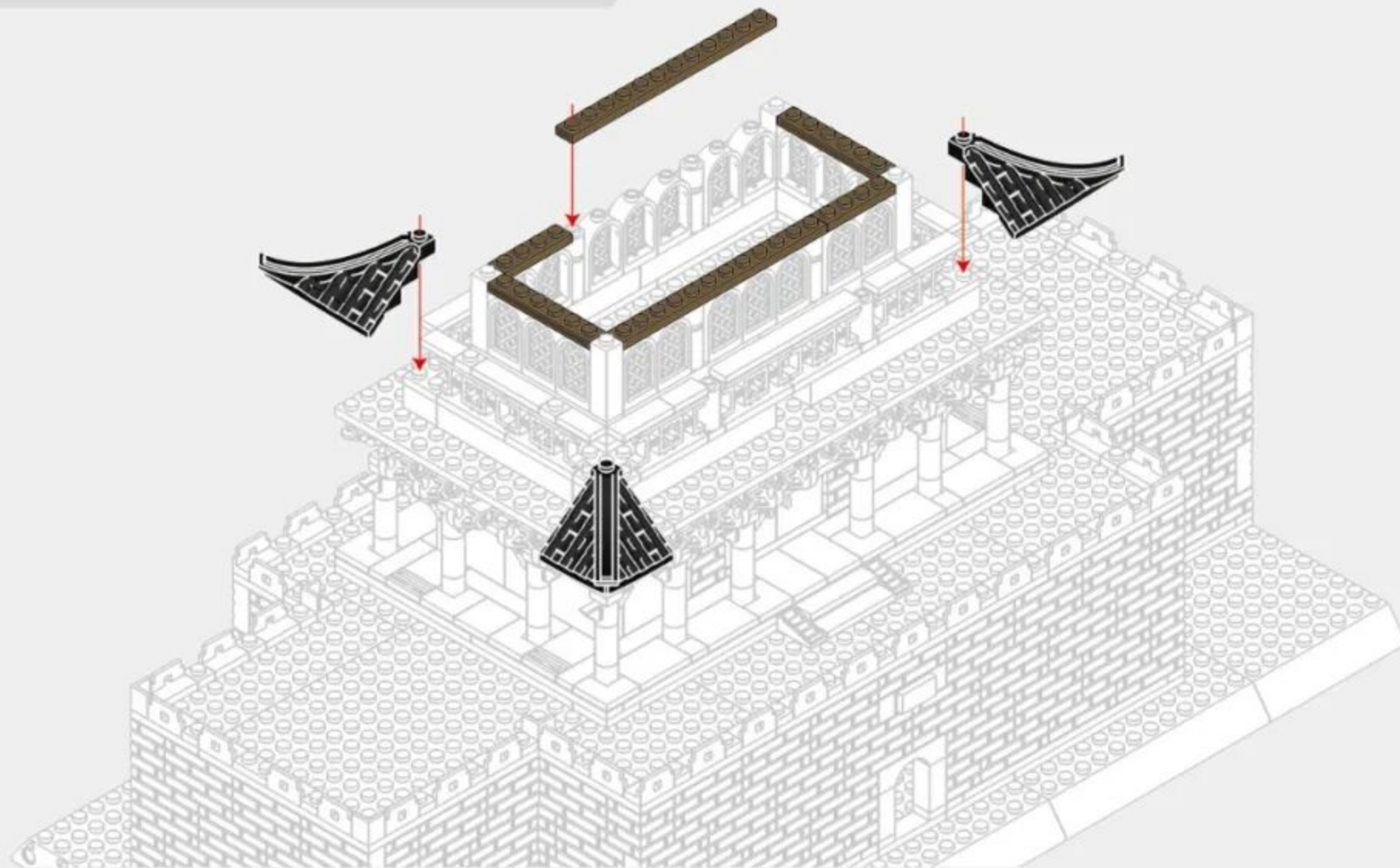
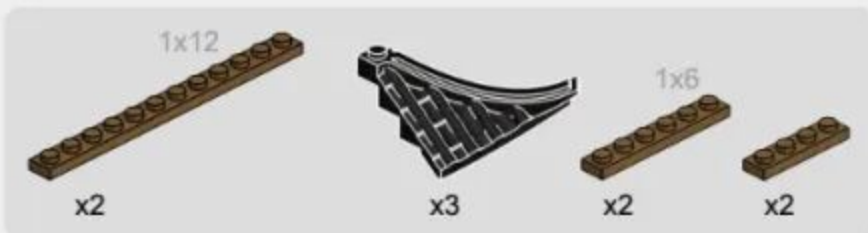
x4



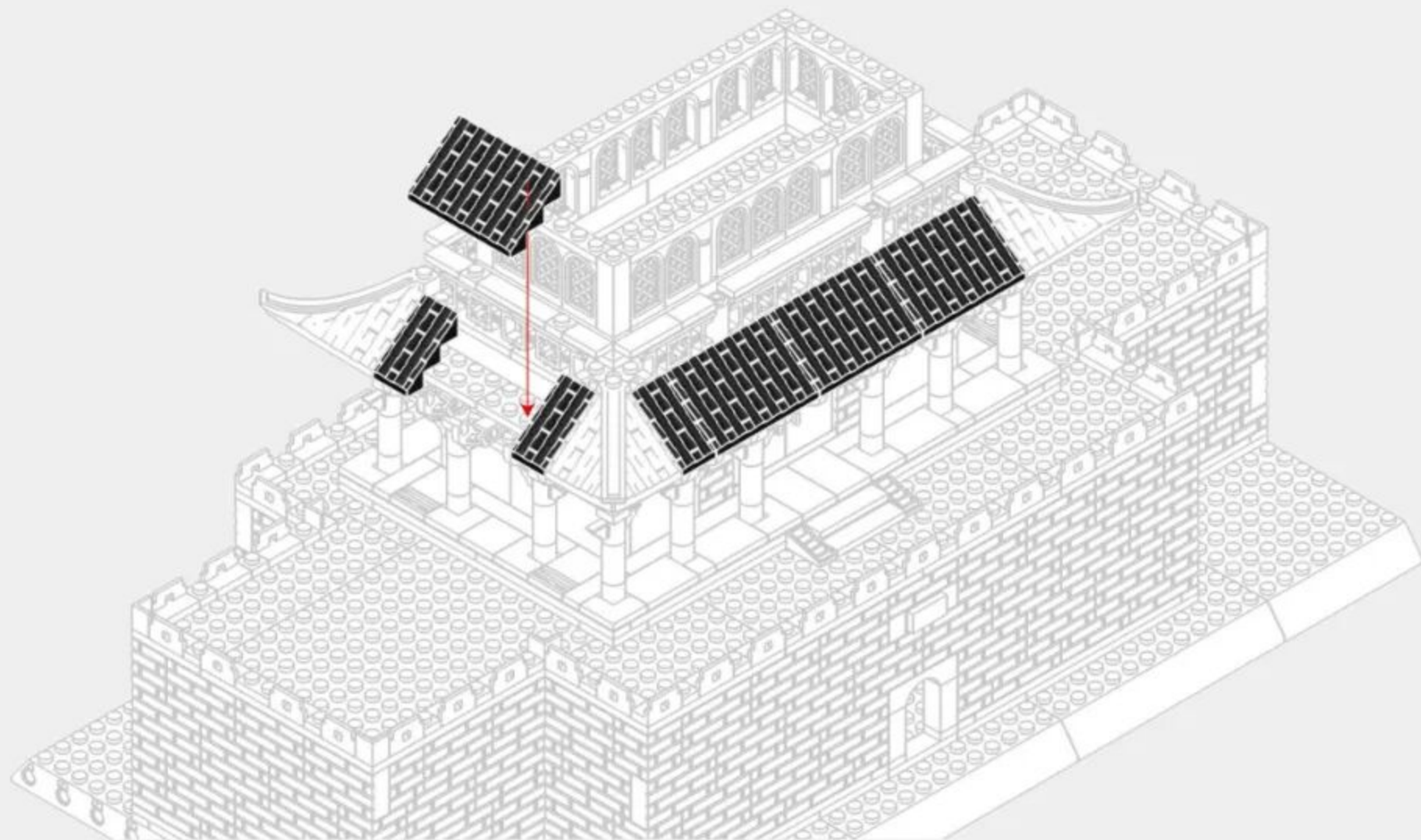
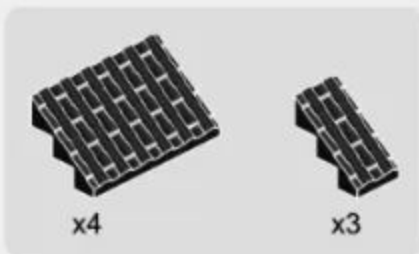
4-19



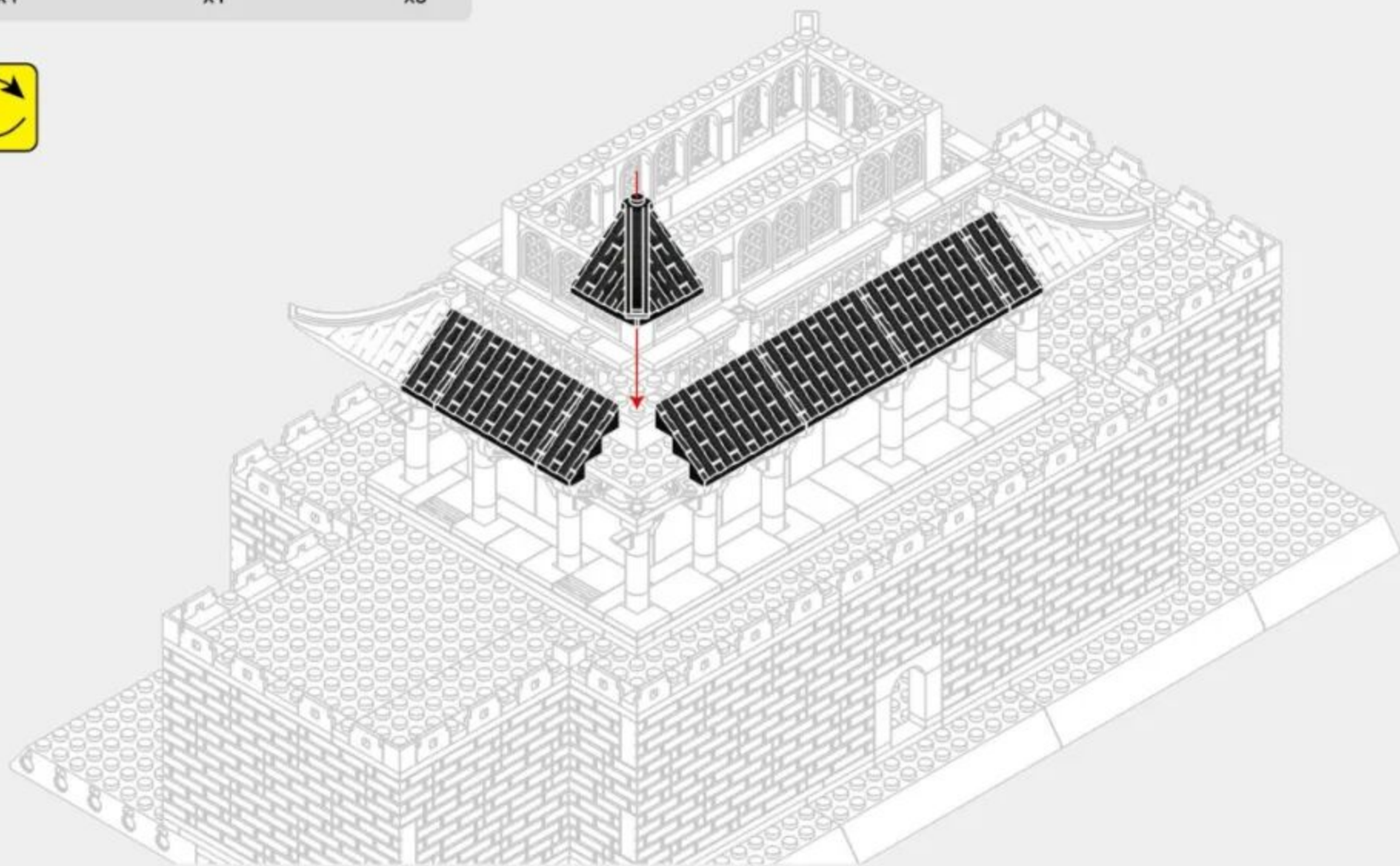
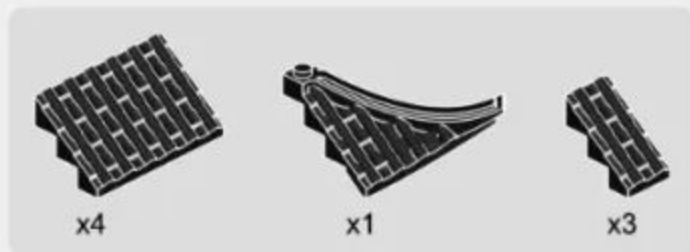
4-20



4-21

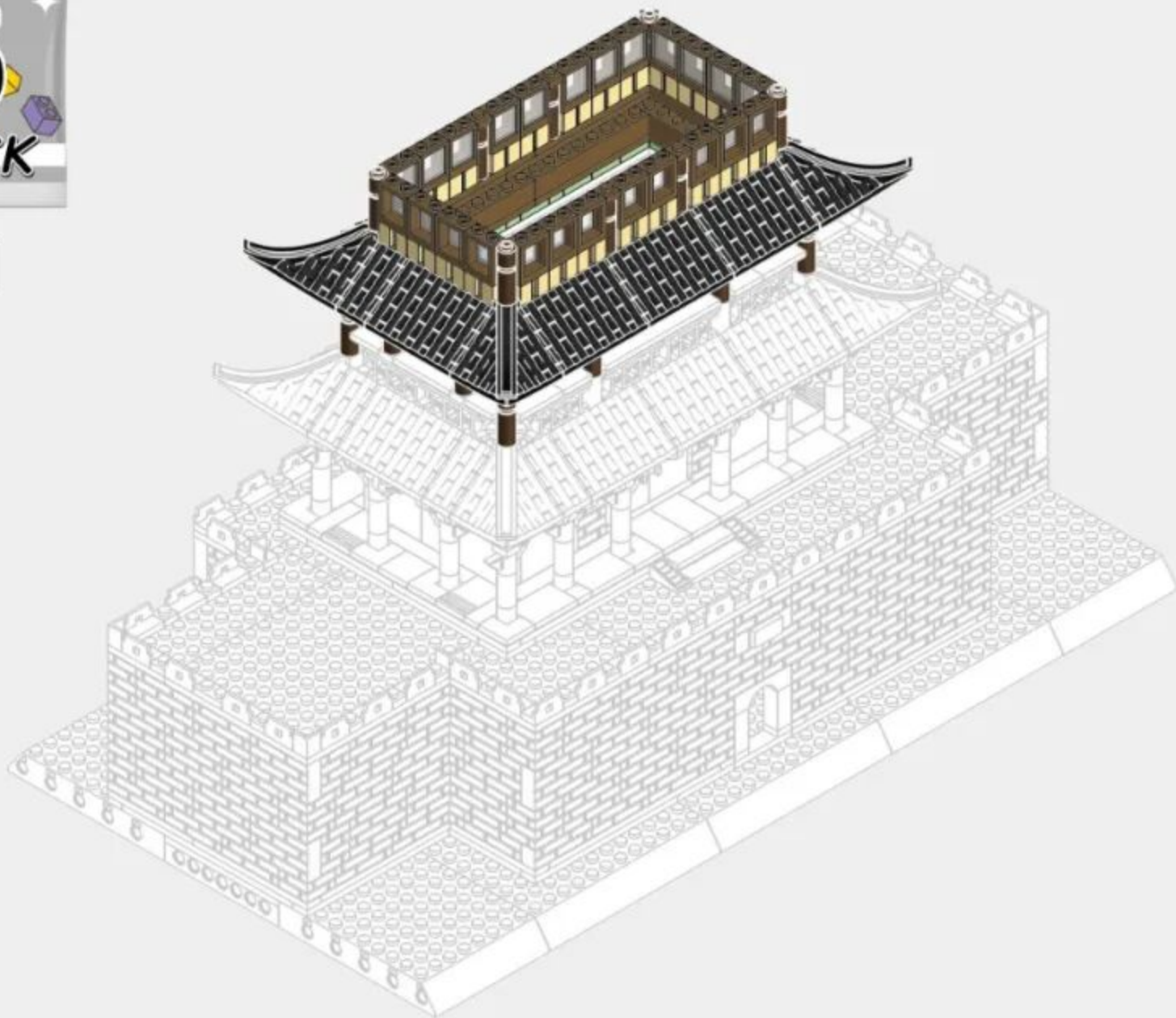


4-22



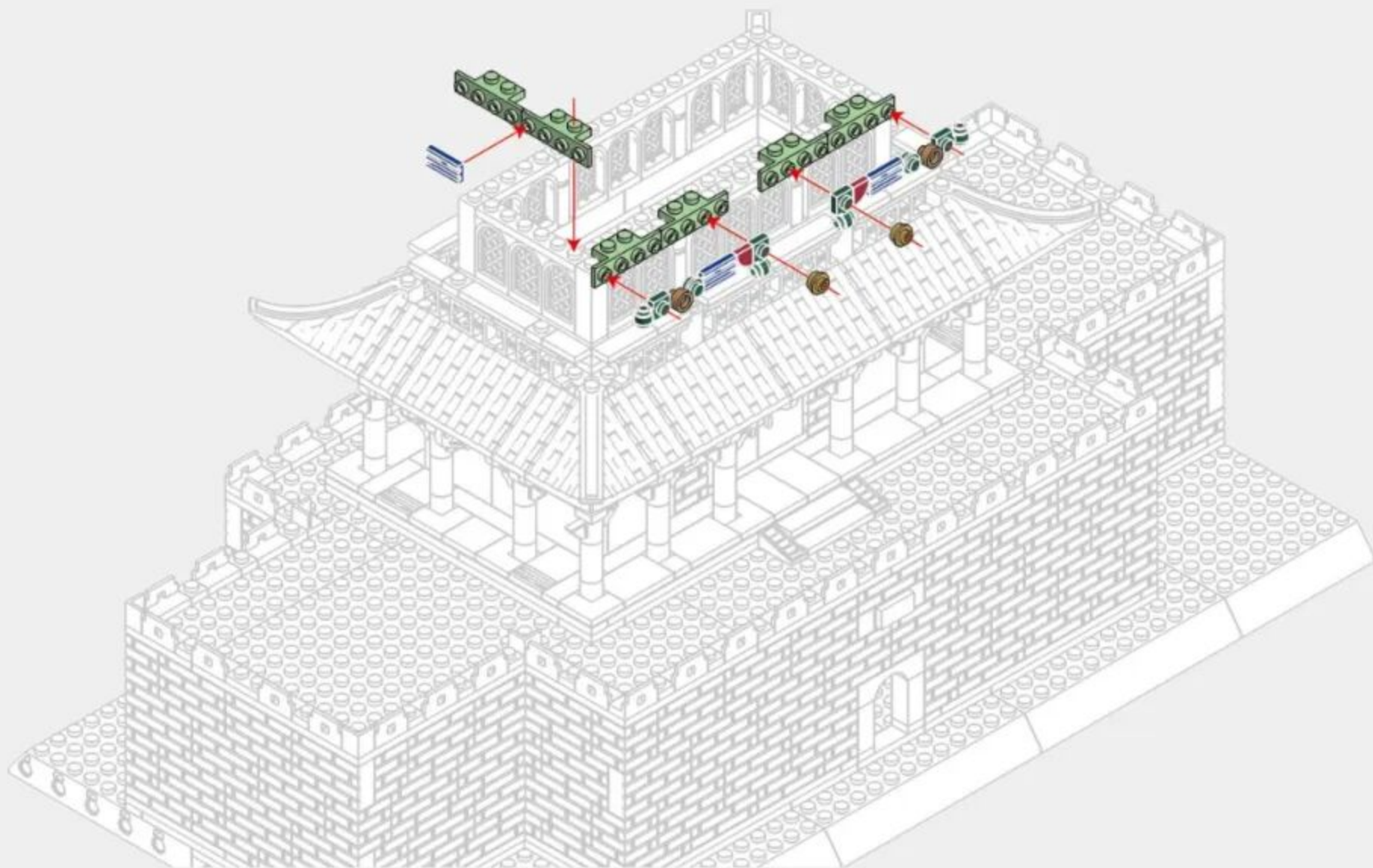


254PCS



5-1

-  x6
-  x4
-  x3
-  x2
-  x2
-  x2
-  x2



5-2



x6



x4



x3



x2



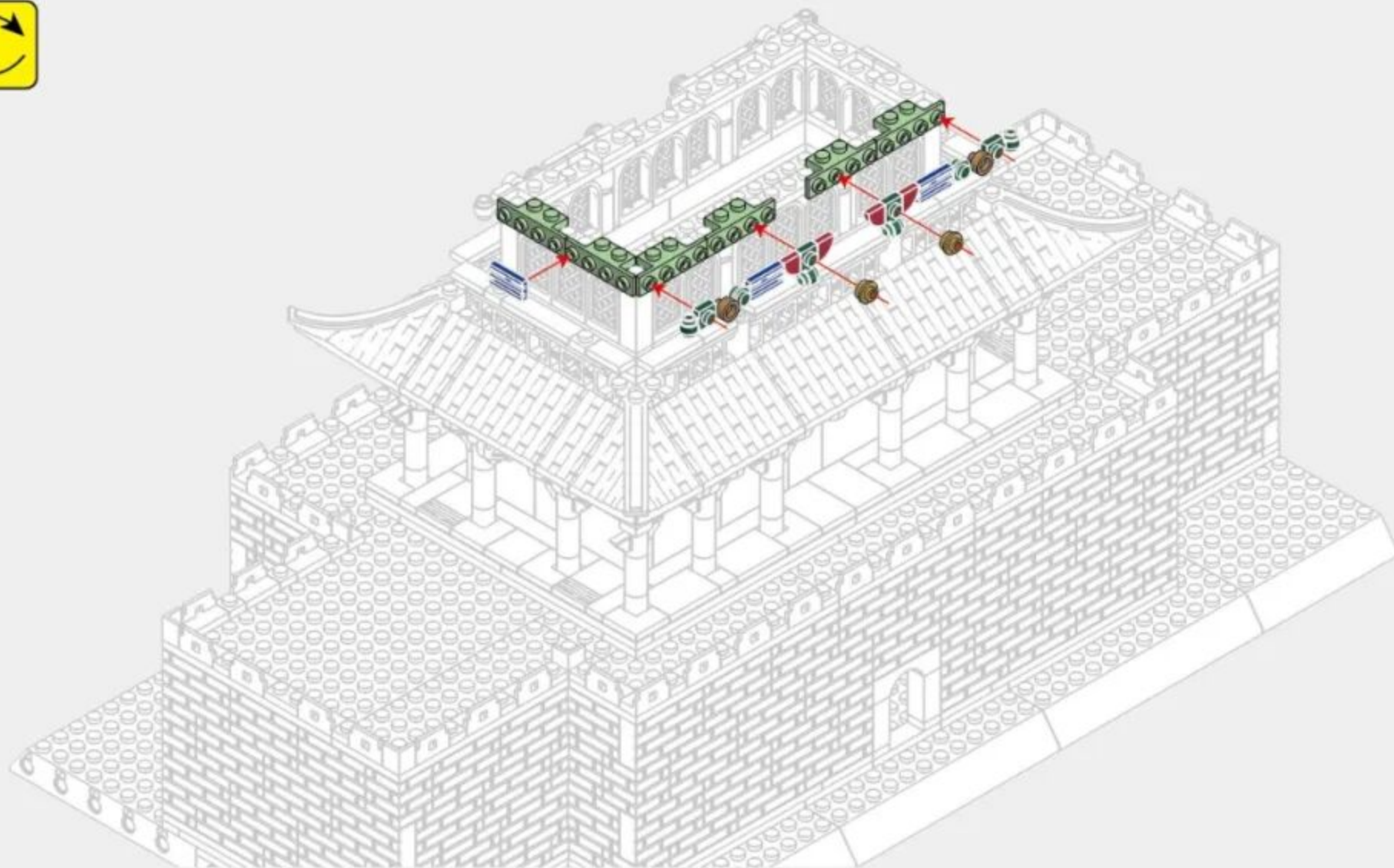
x2



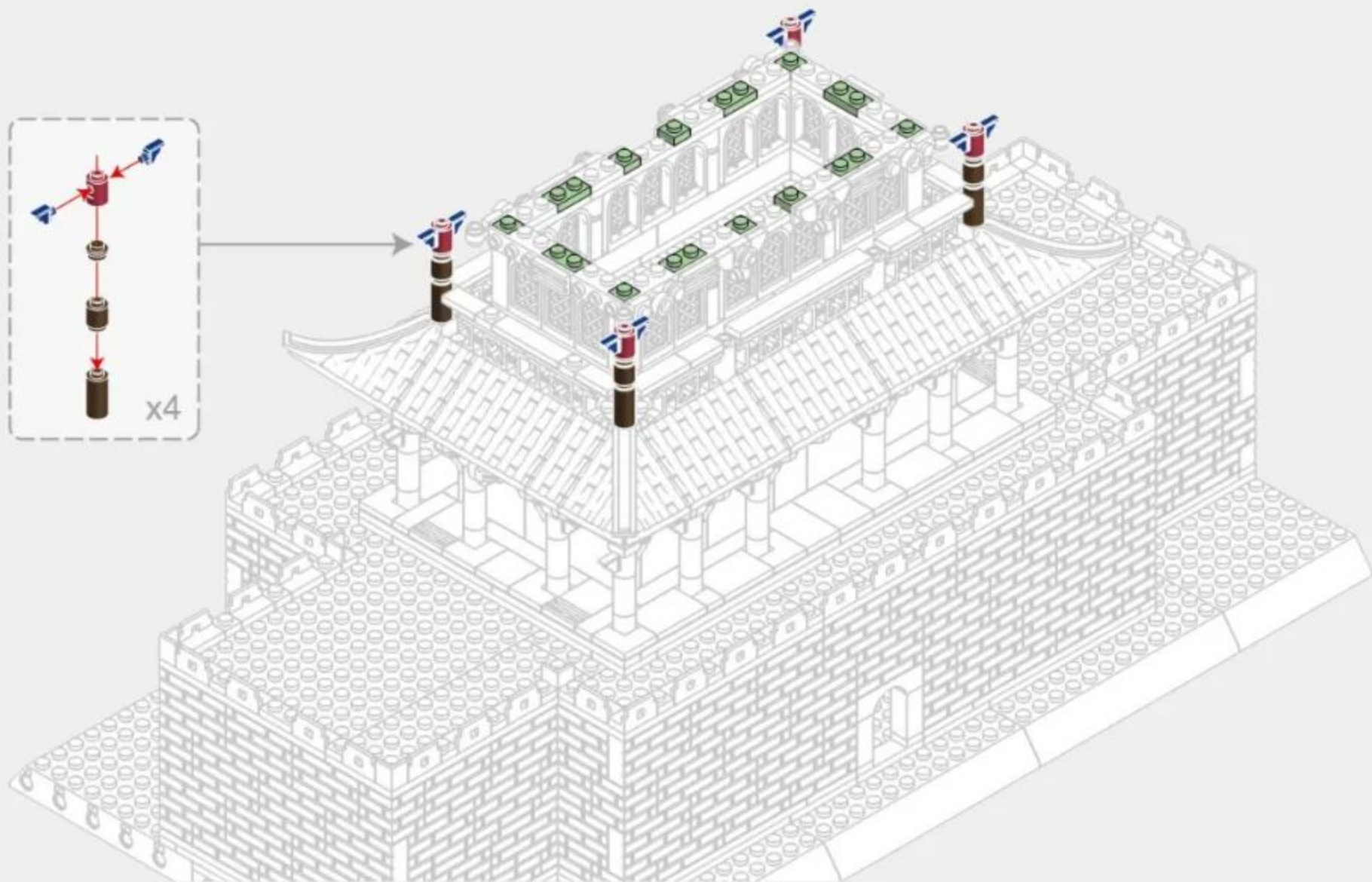
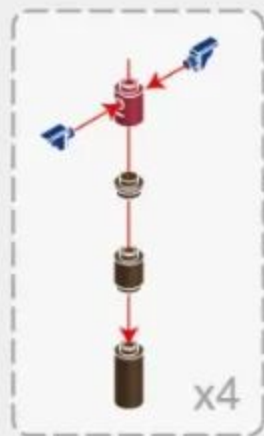
x2



x4



5-3



5-4



x4



x1



x4



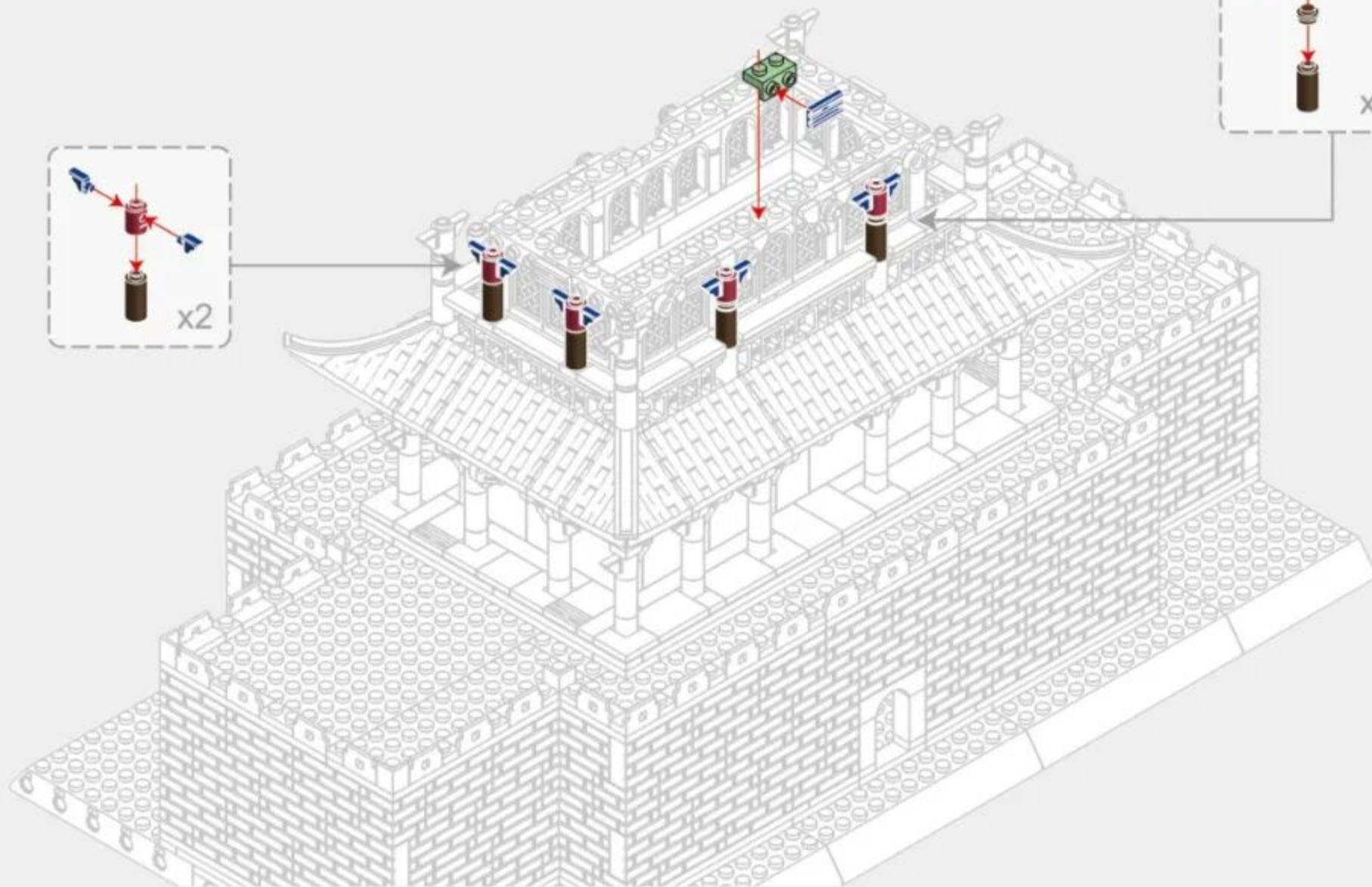
x1



x8



x2

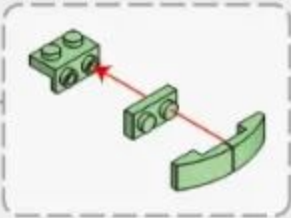


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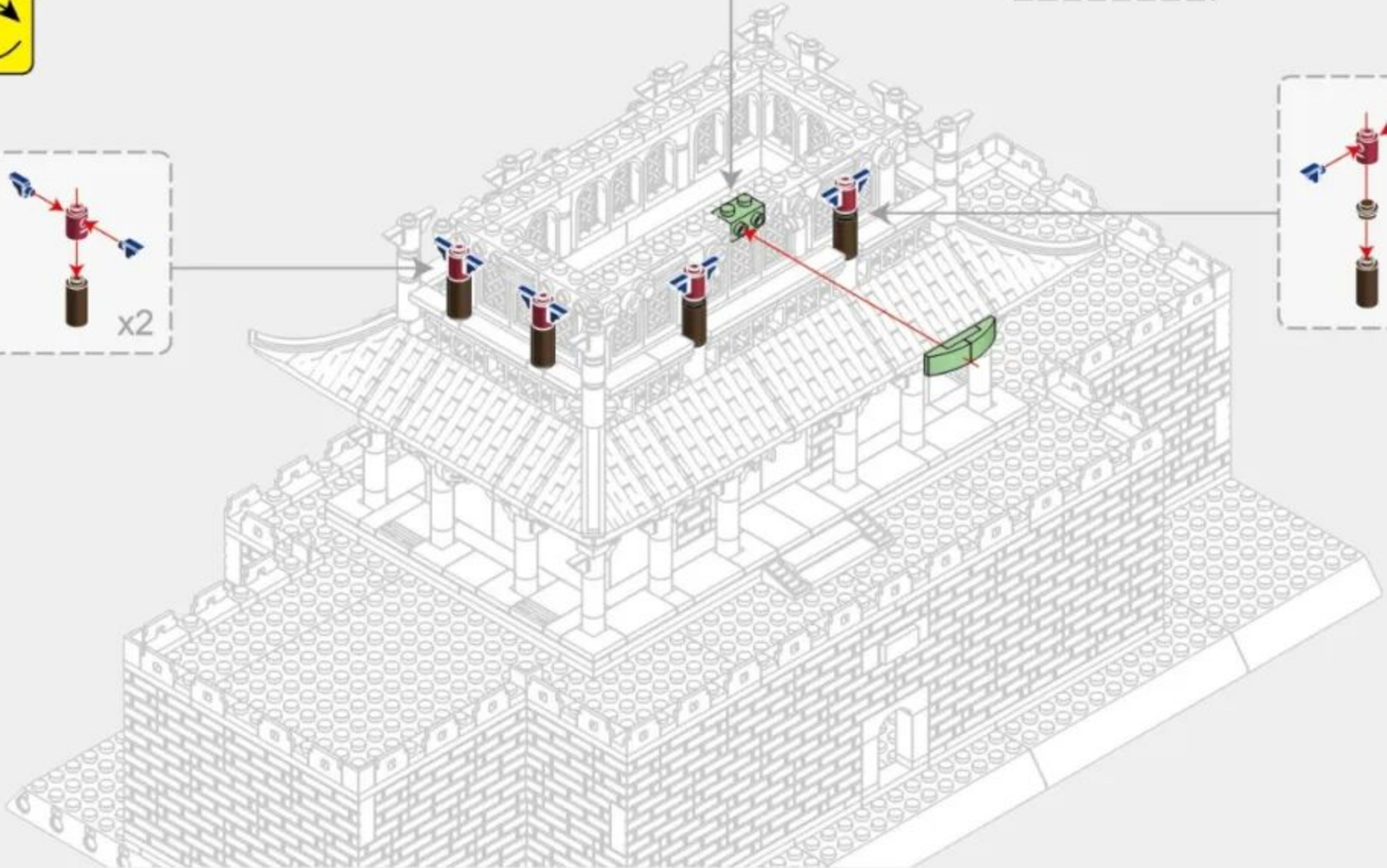
-  x4
-  x1
-  x2
-  x4
-  x1
-  x8
-  x2



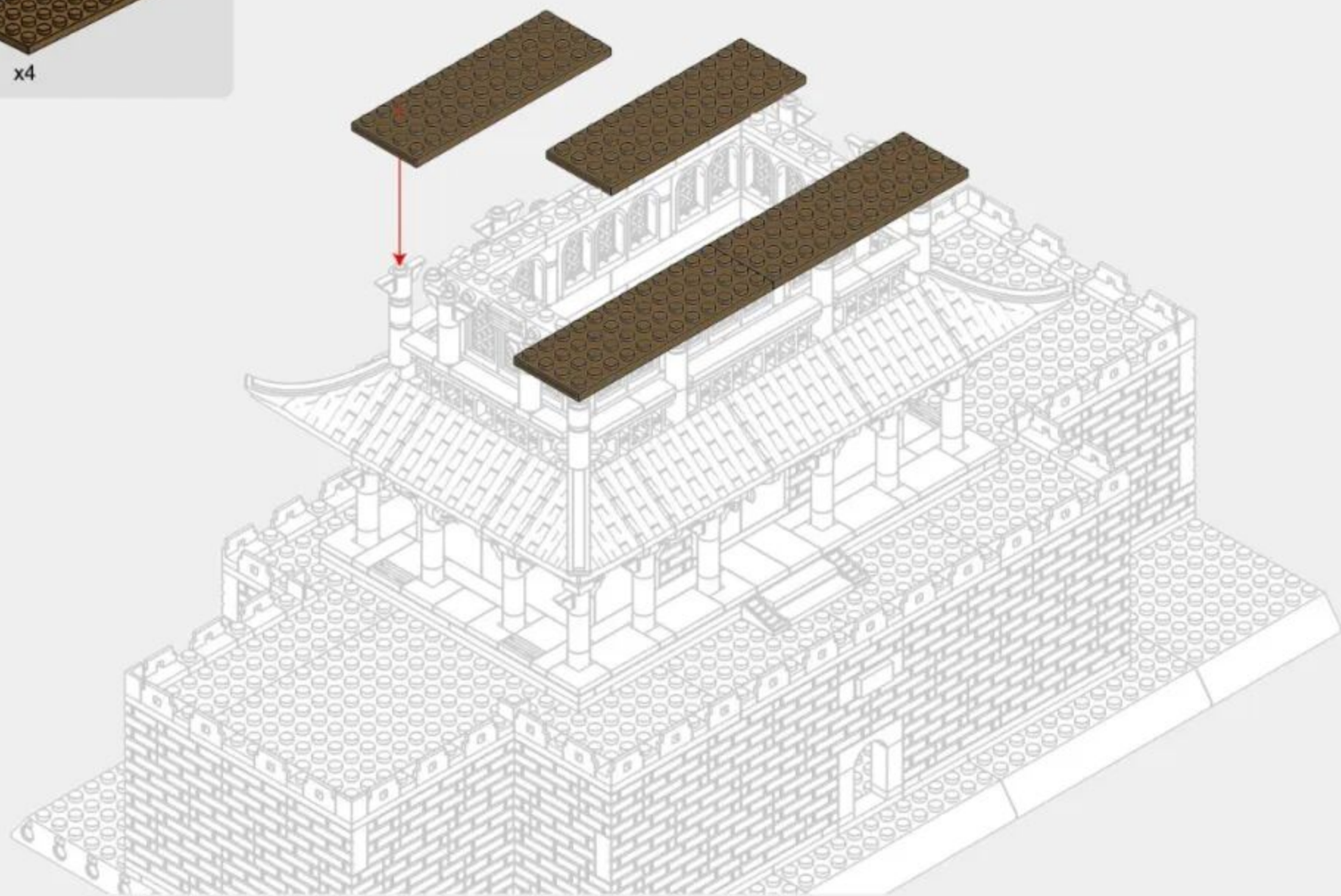
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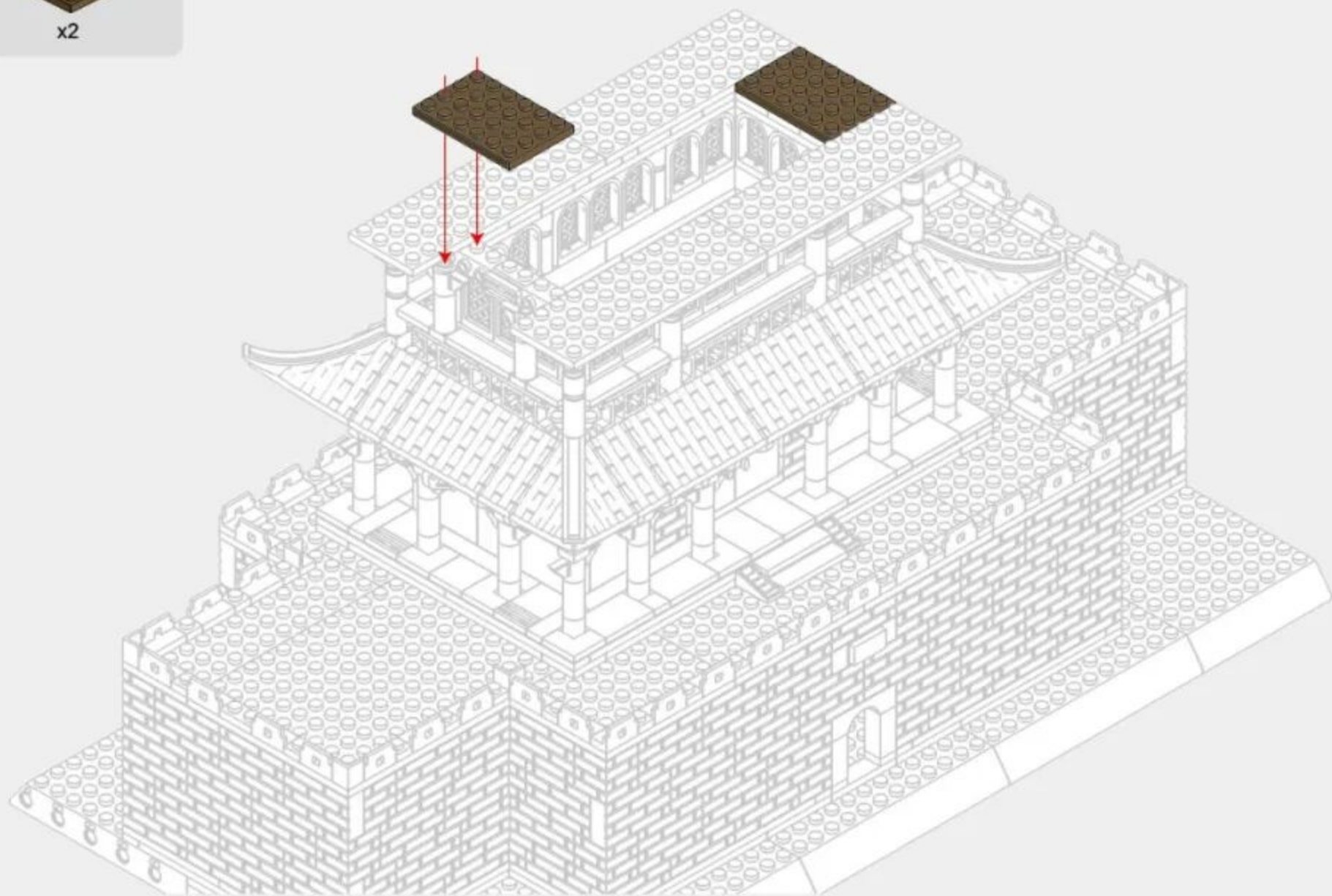
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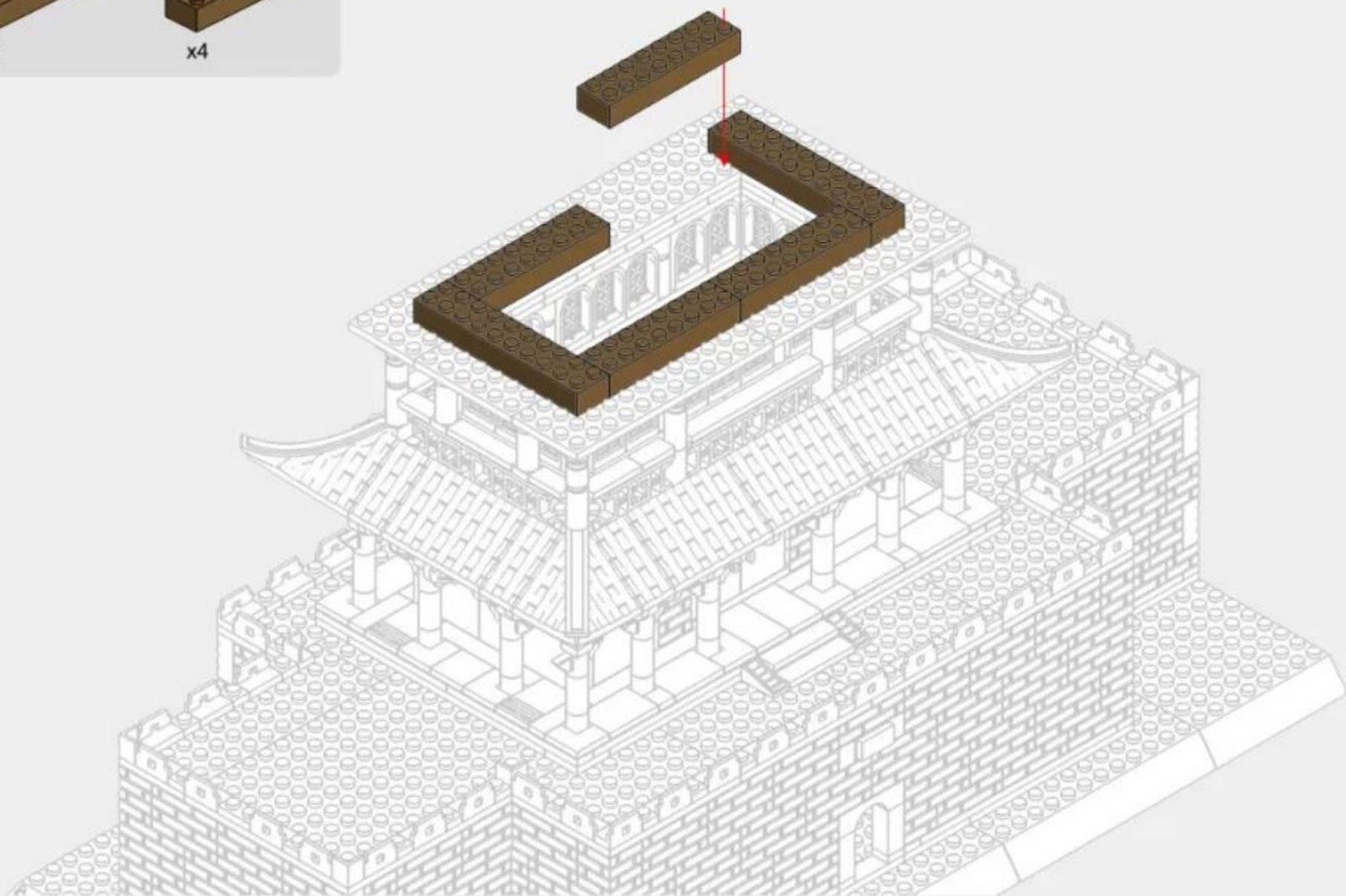
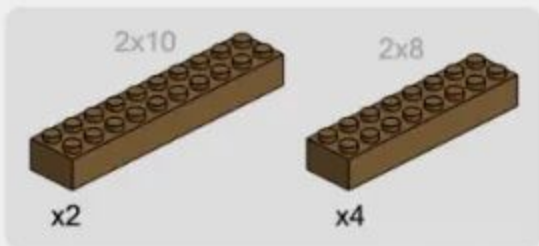
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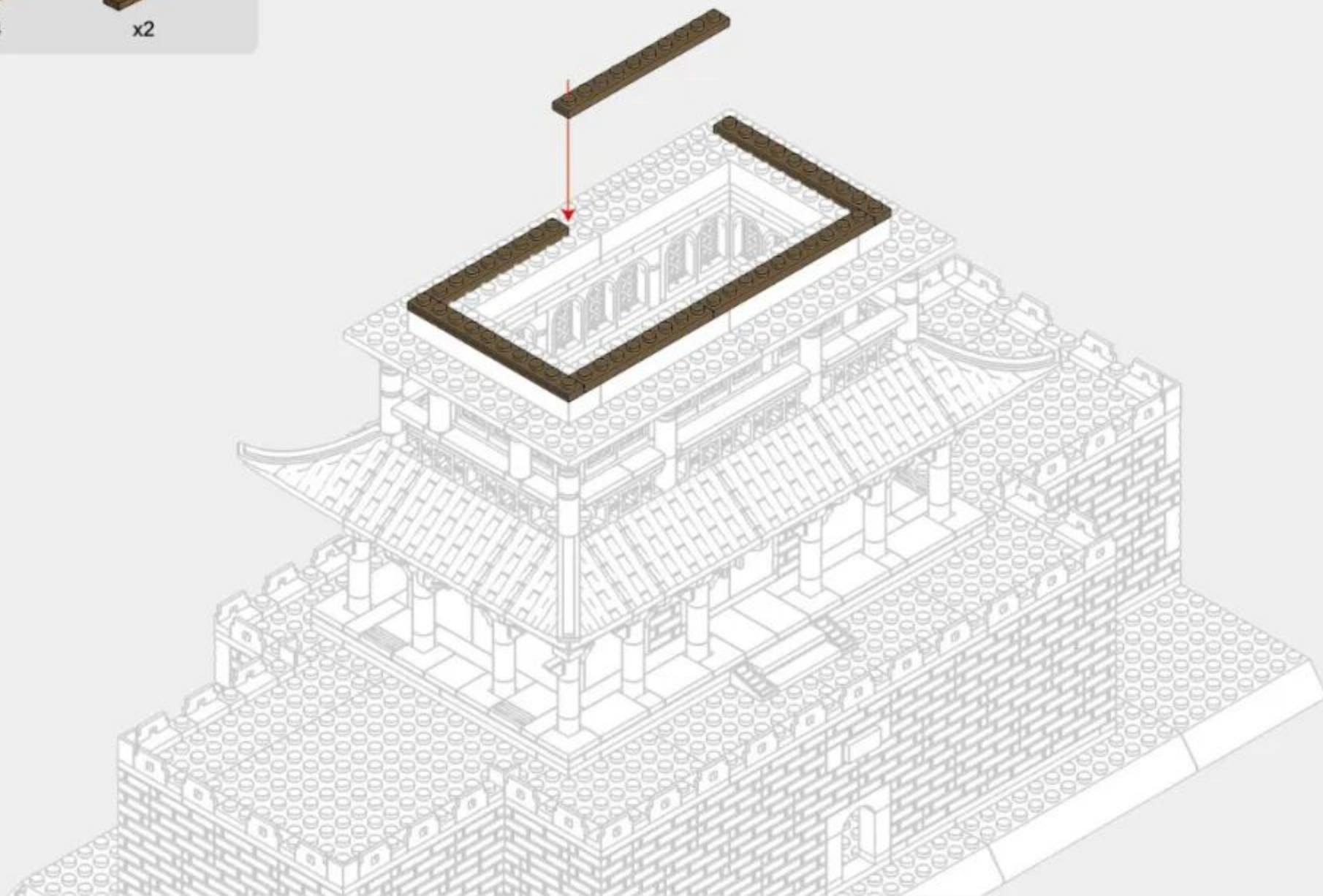
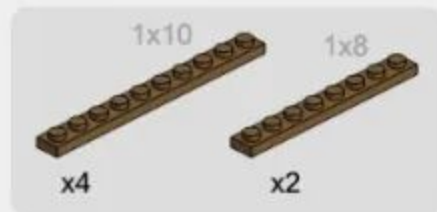
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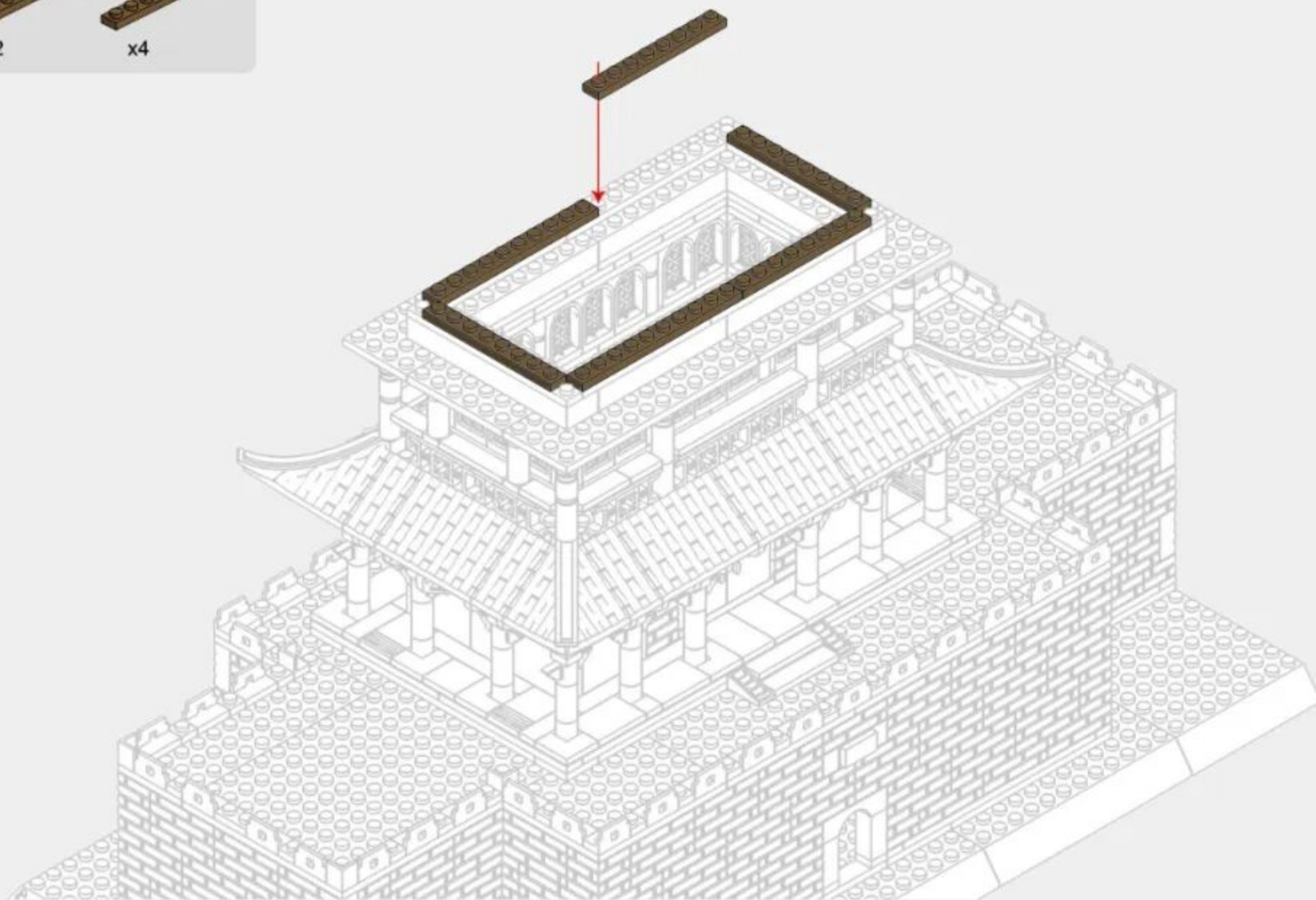
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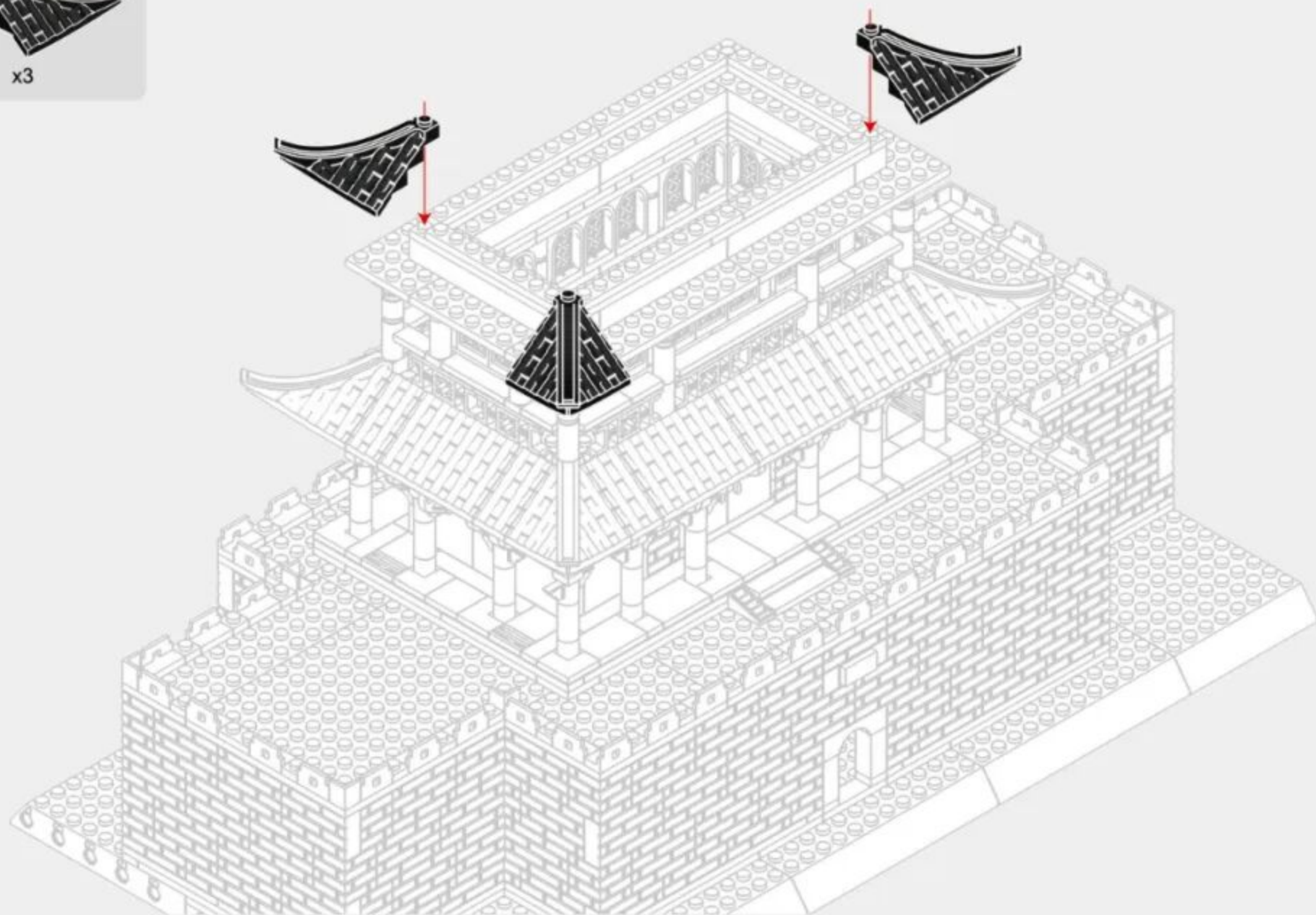
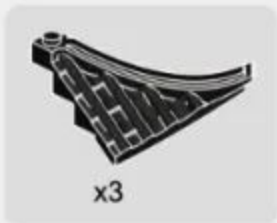
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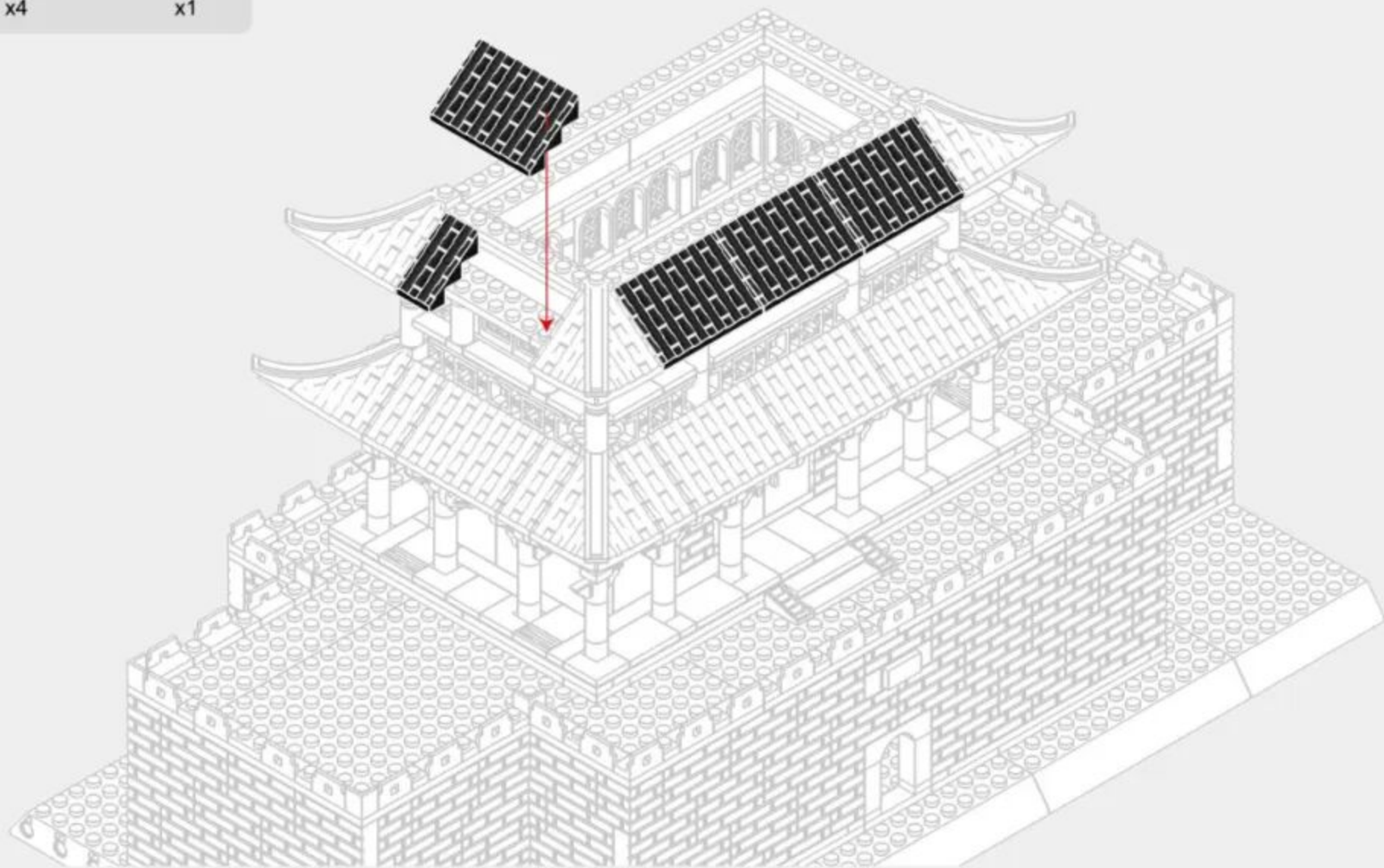
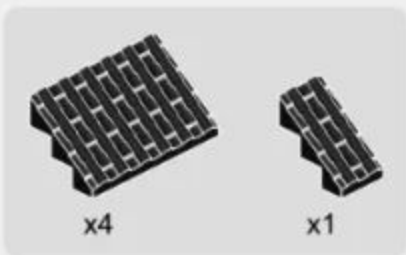
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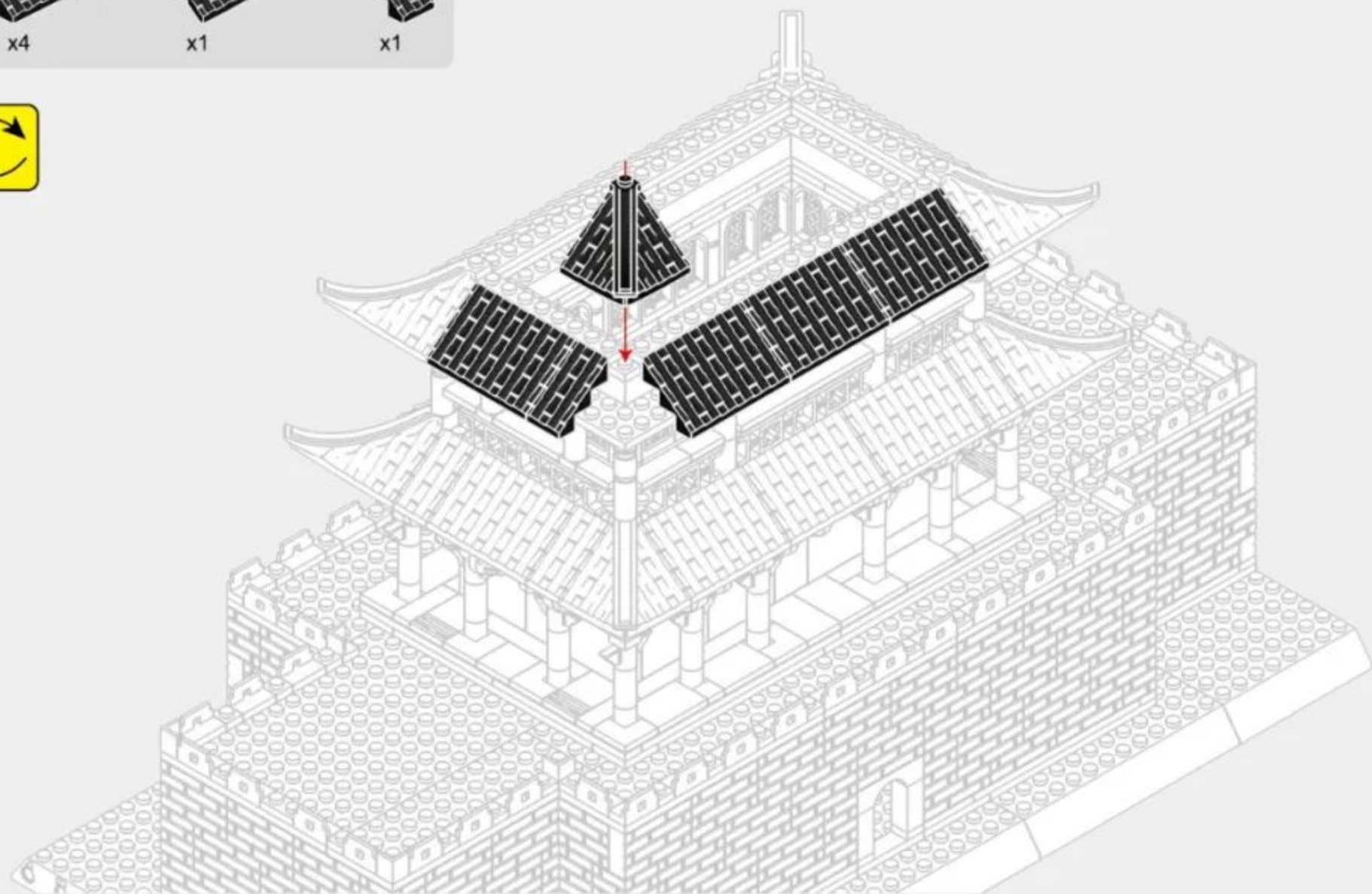
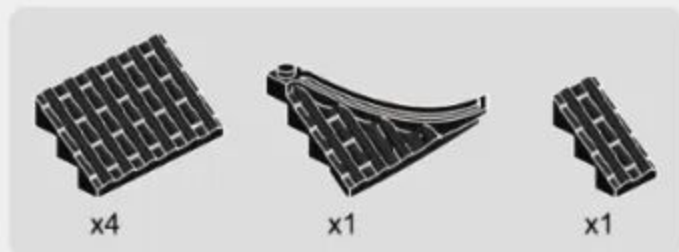
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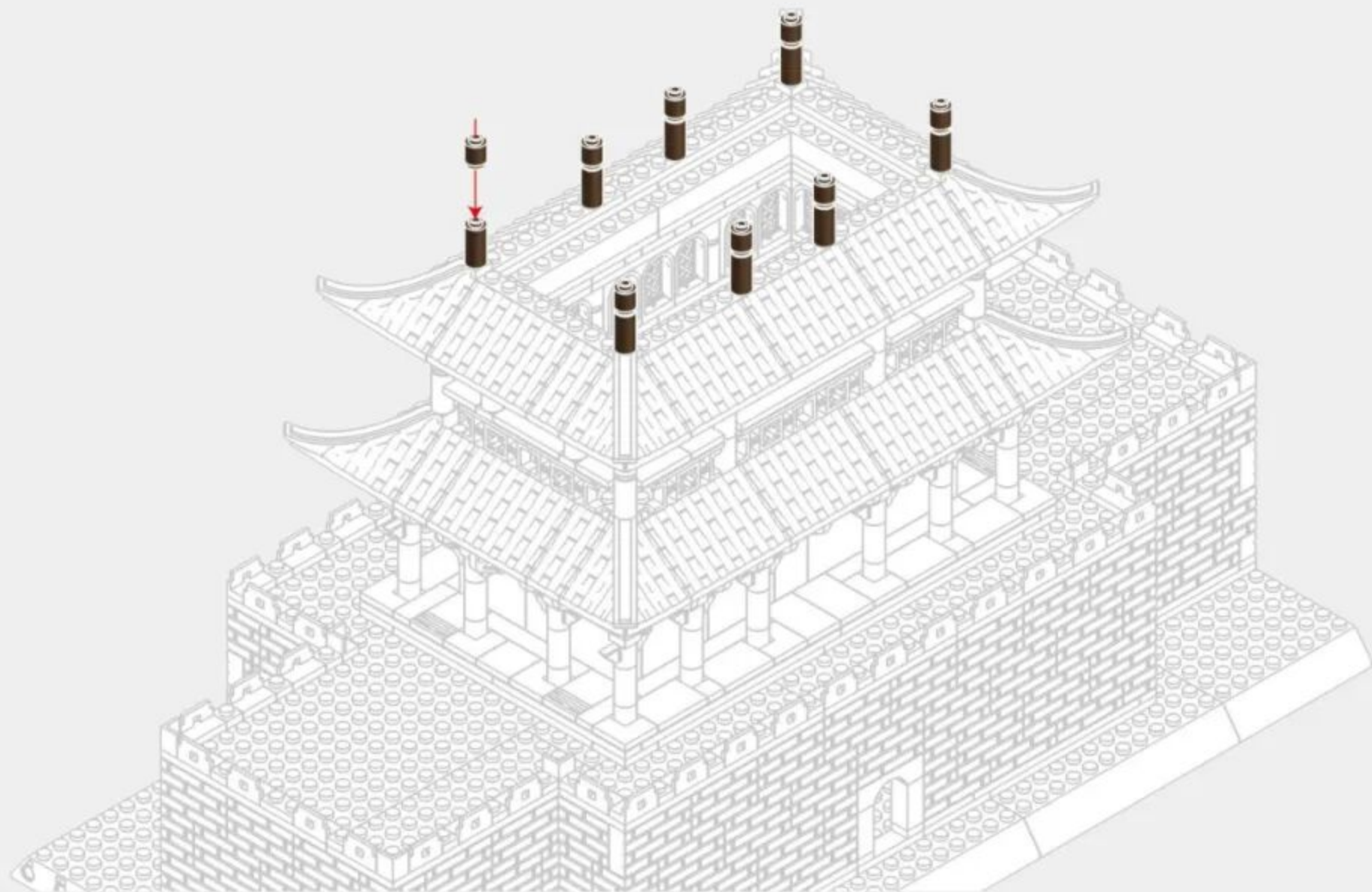
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5-13



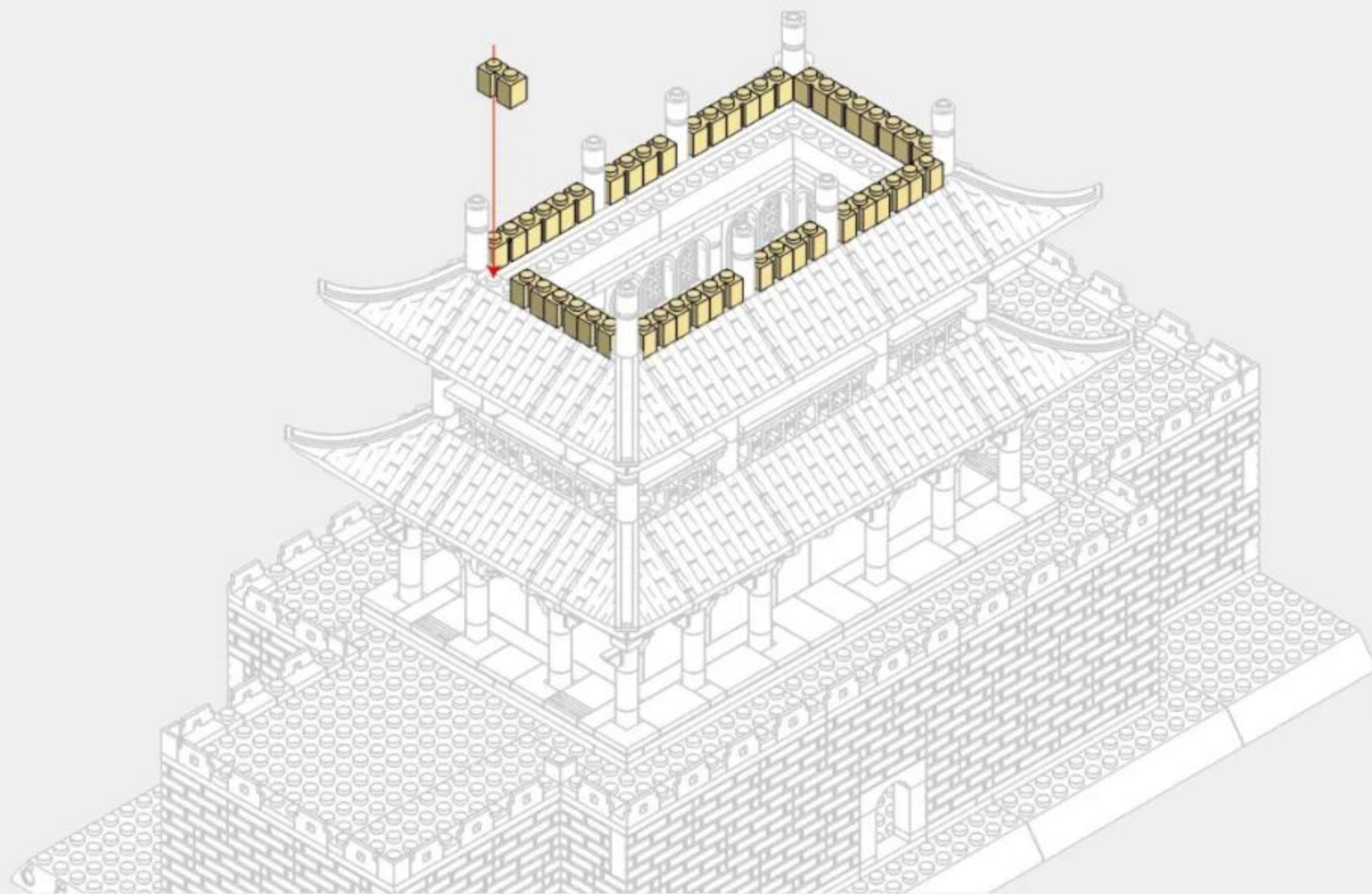
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5-15



x24



5-16



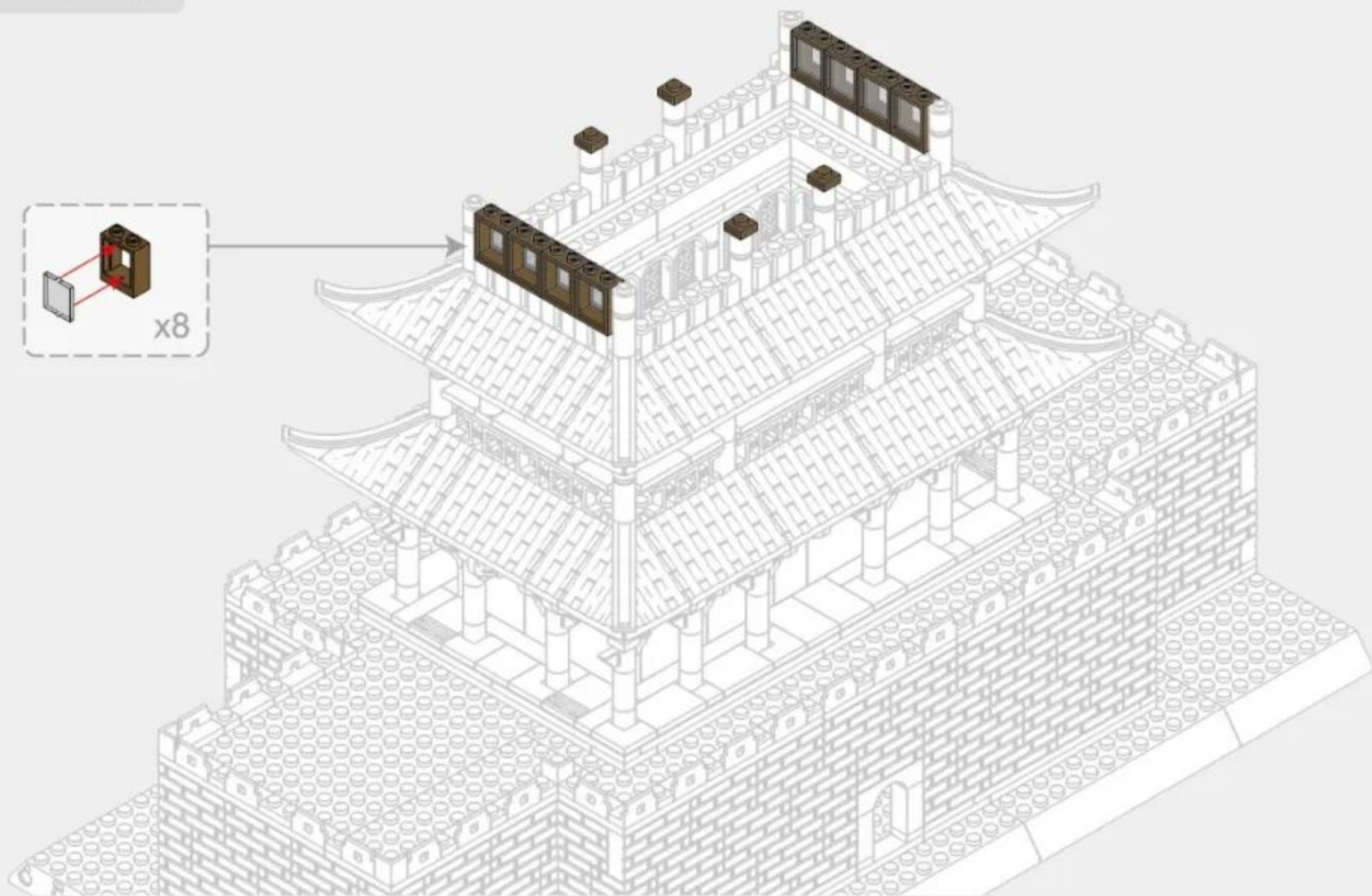
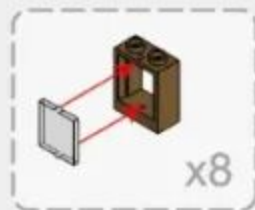
x8



x8



x4



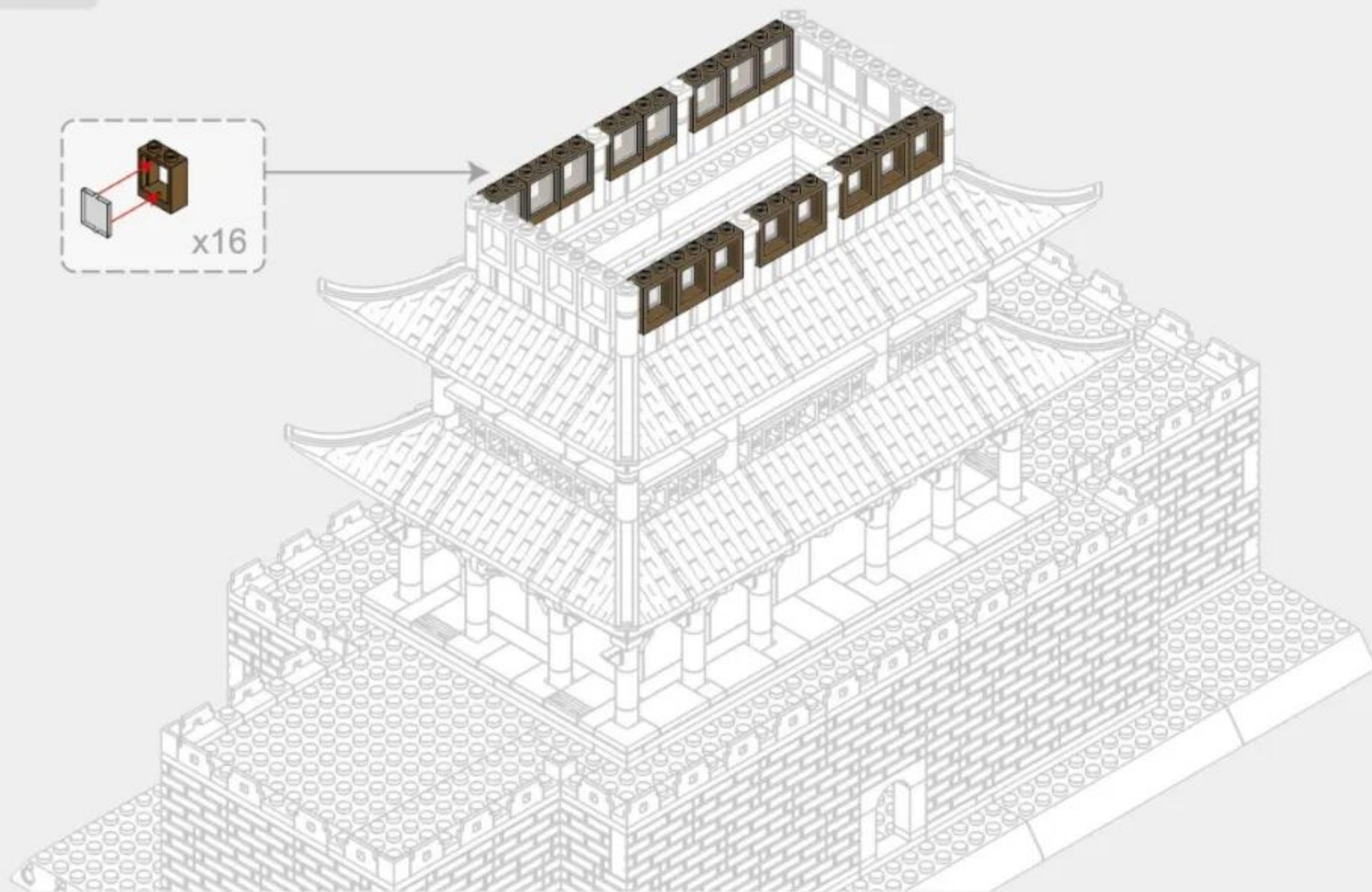
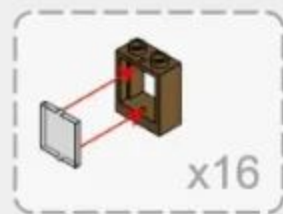
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x16

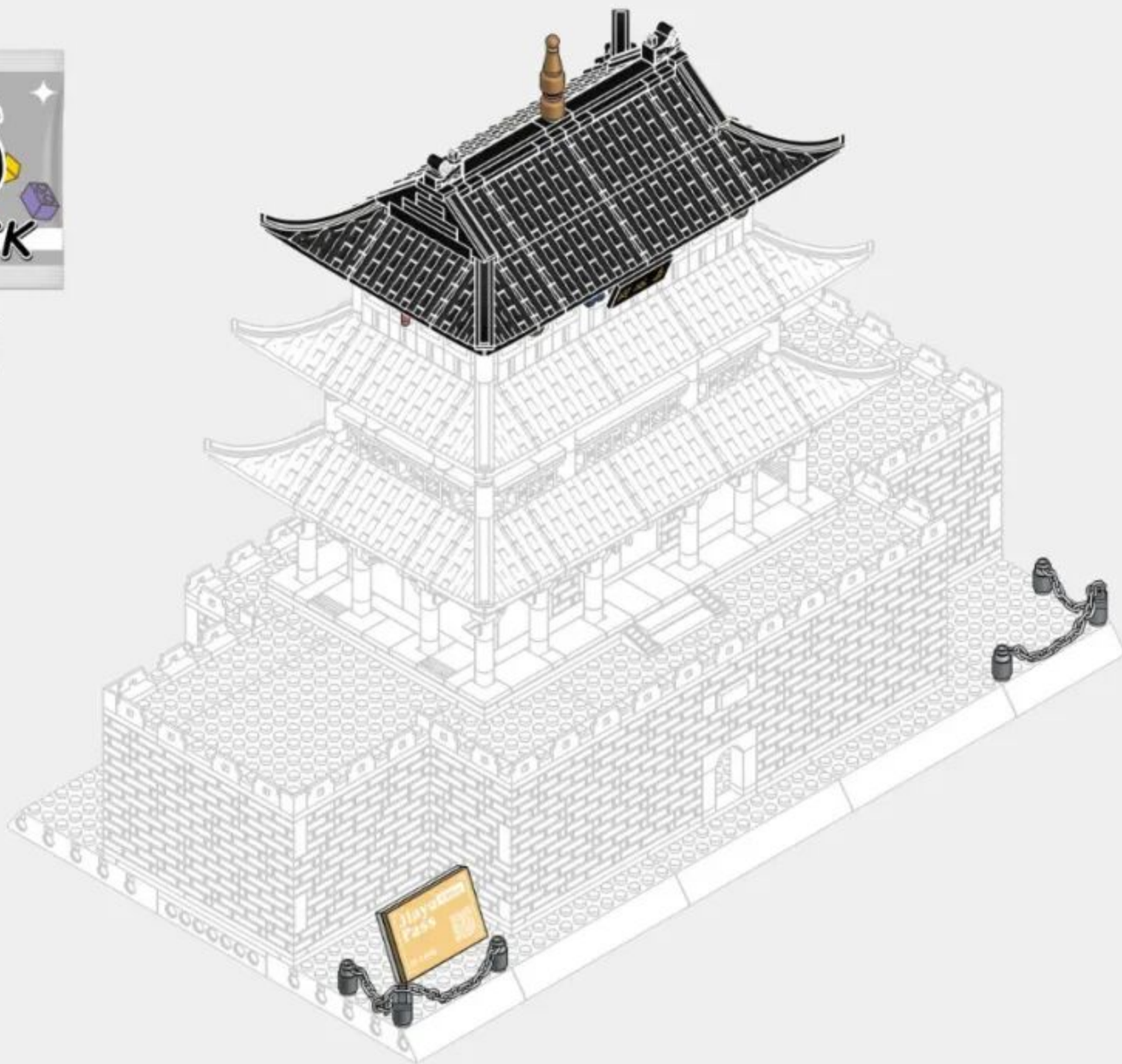


x16





204PCS



6-1



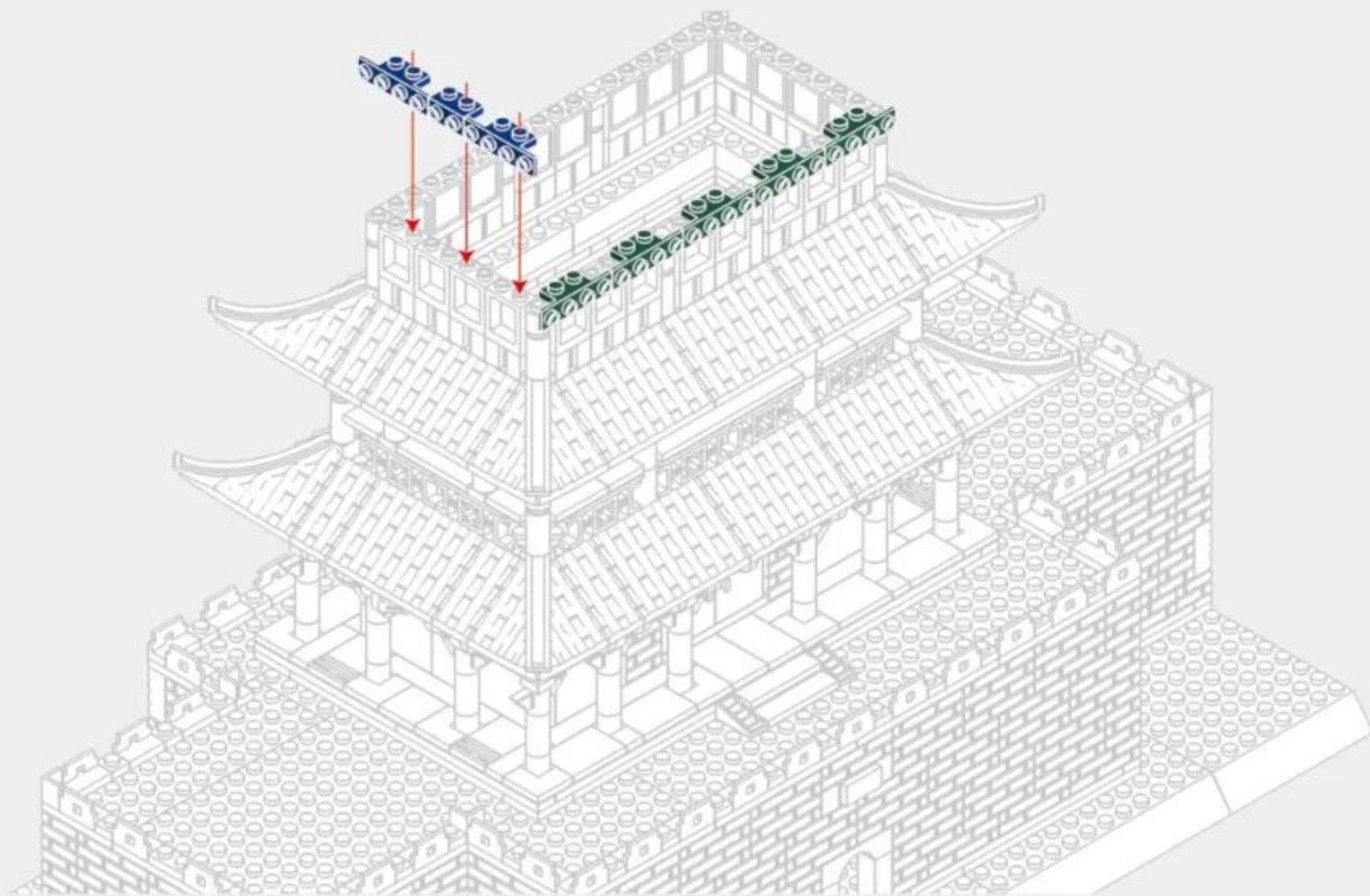
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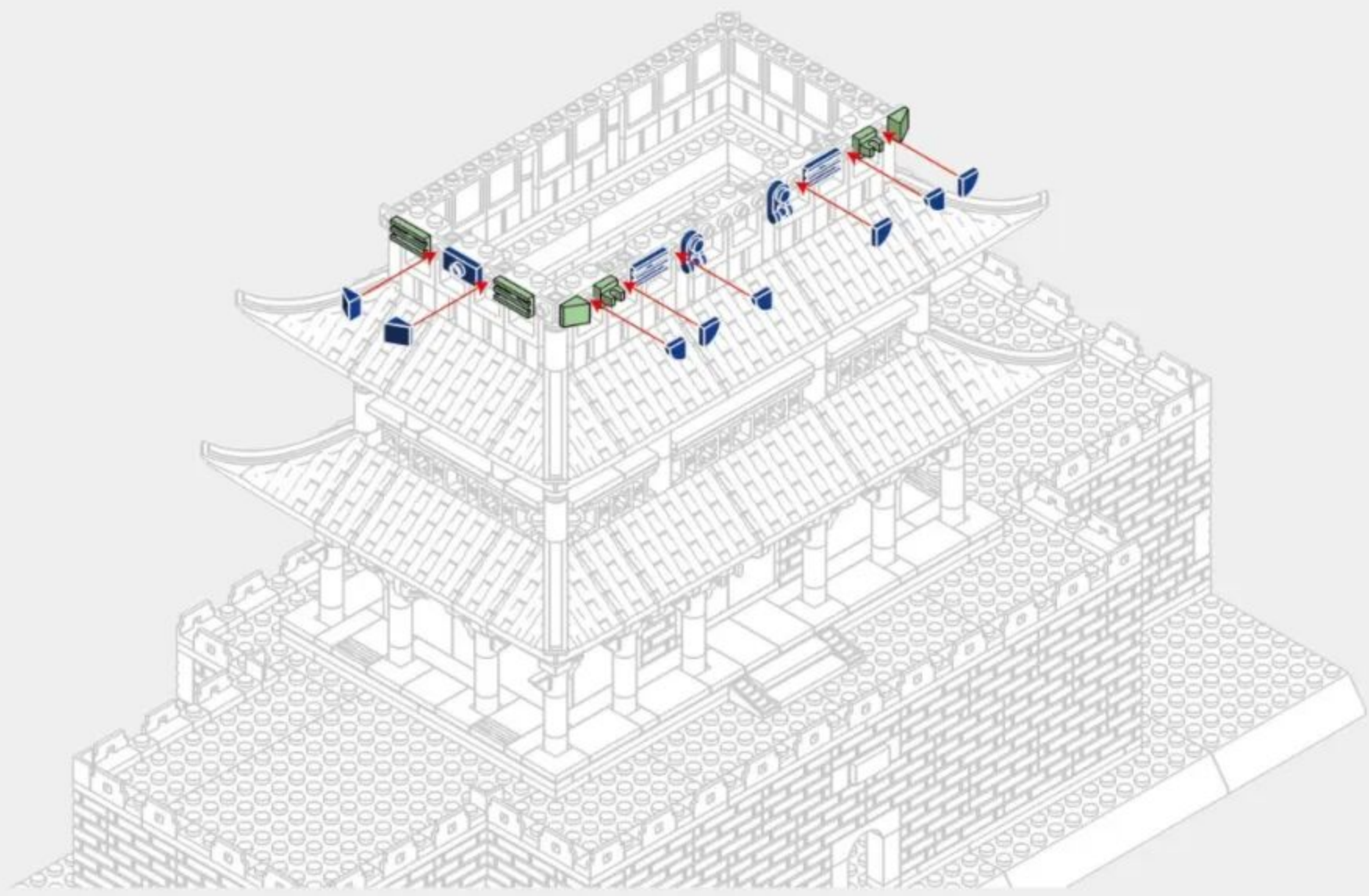
x5



x1



6-2



6-3

2x4



x1



x2



x2



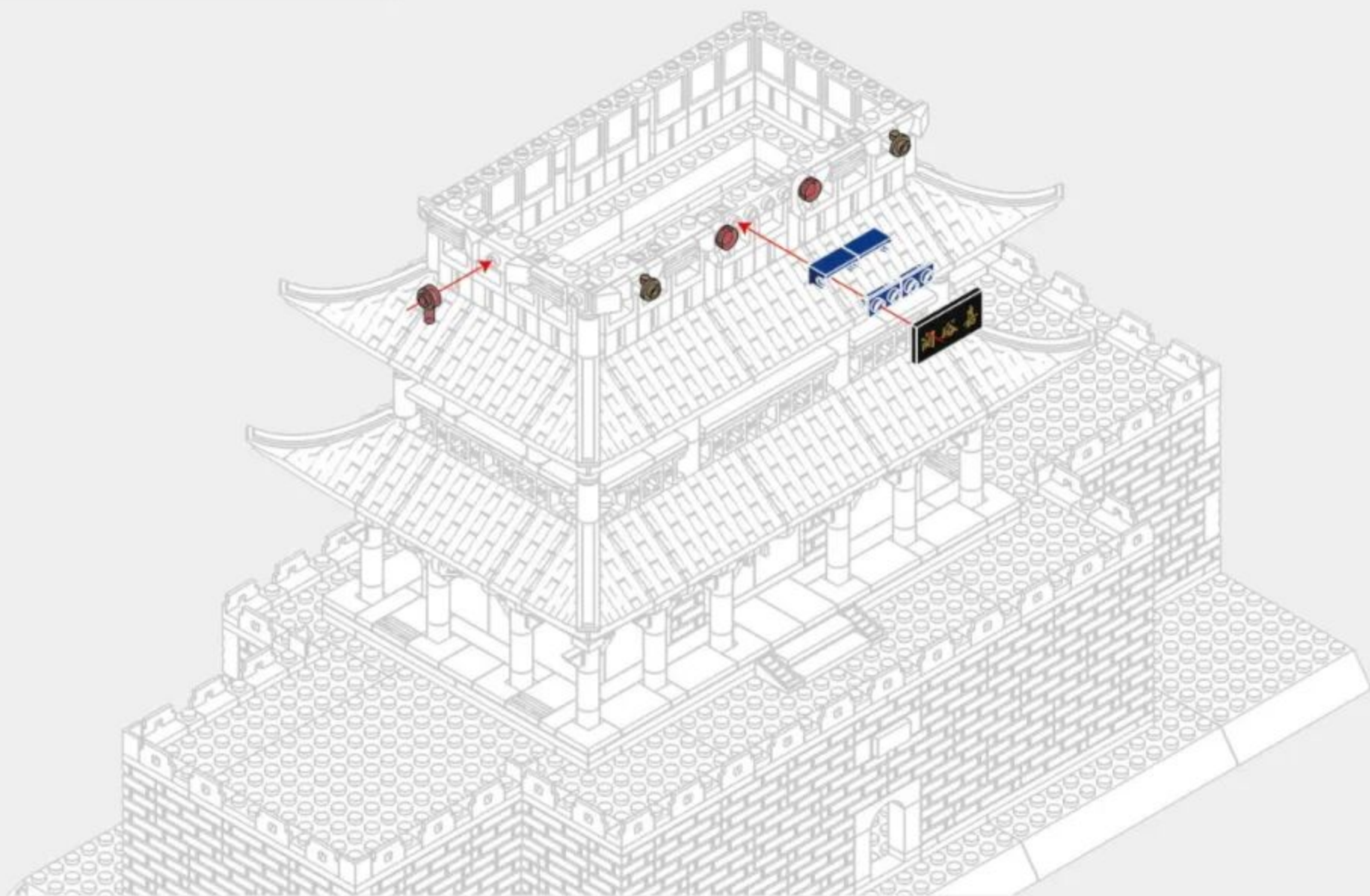
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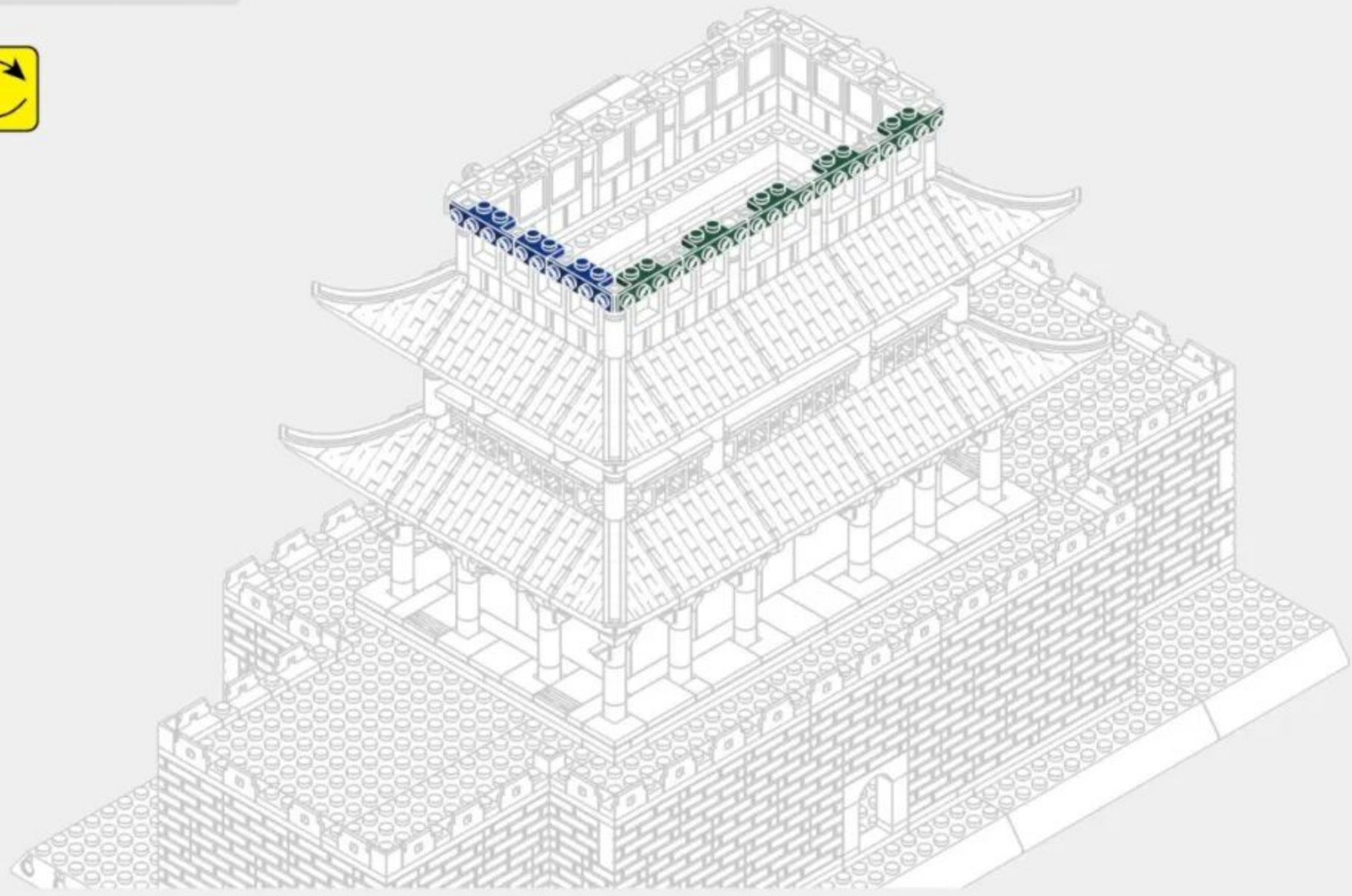
x2



x2



6-4



6-5



x1



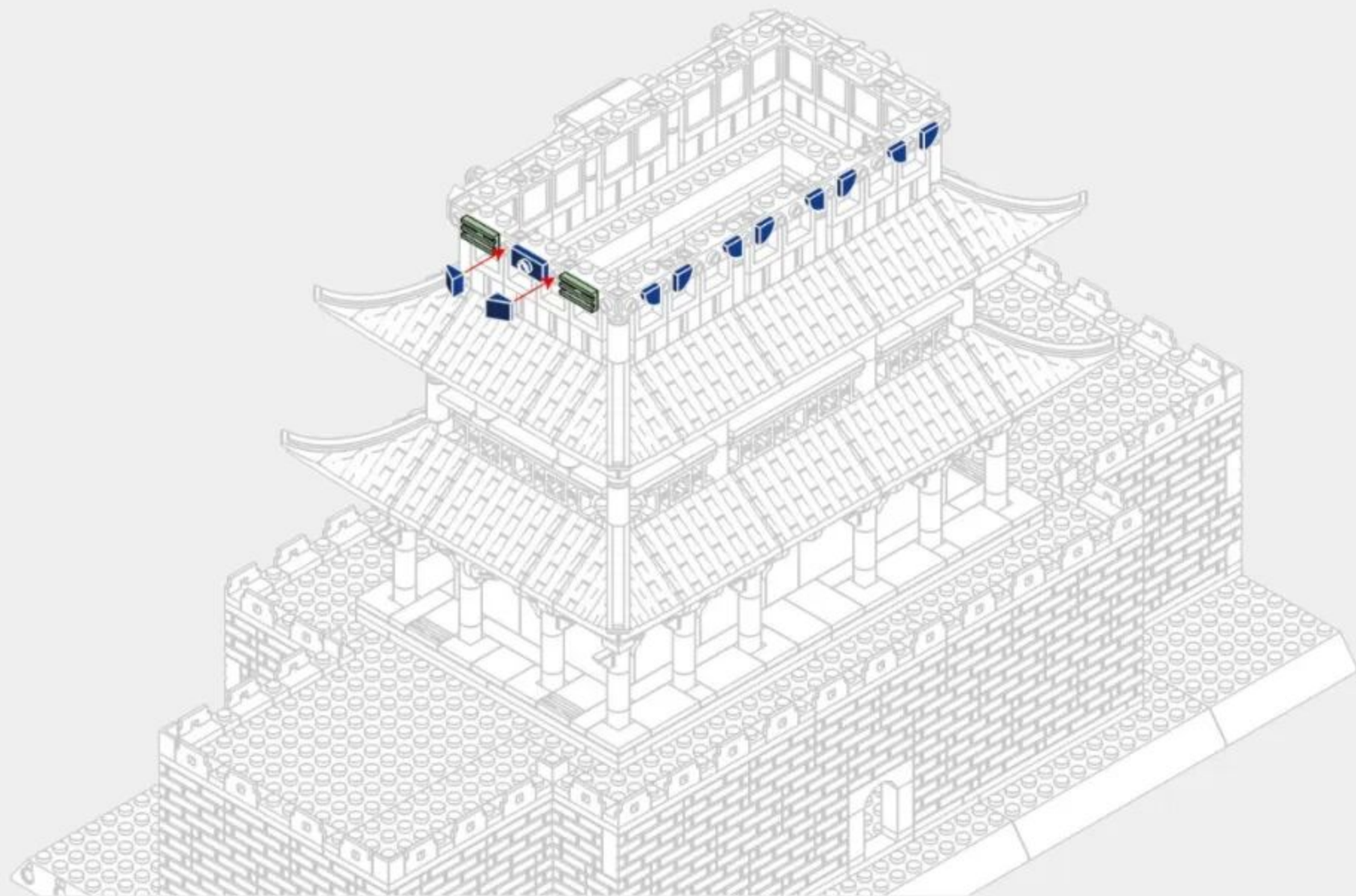
x2



x2



x8



6-6



x1



x2



x2



x2



x2



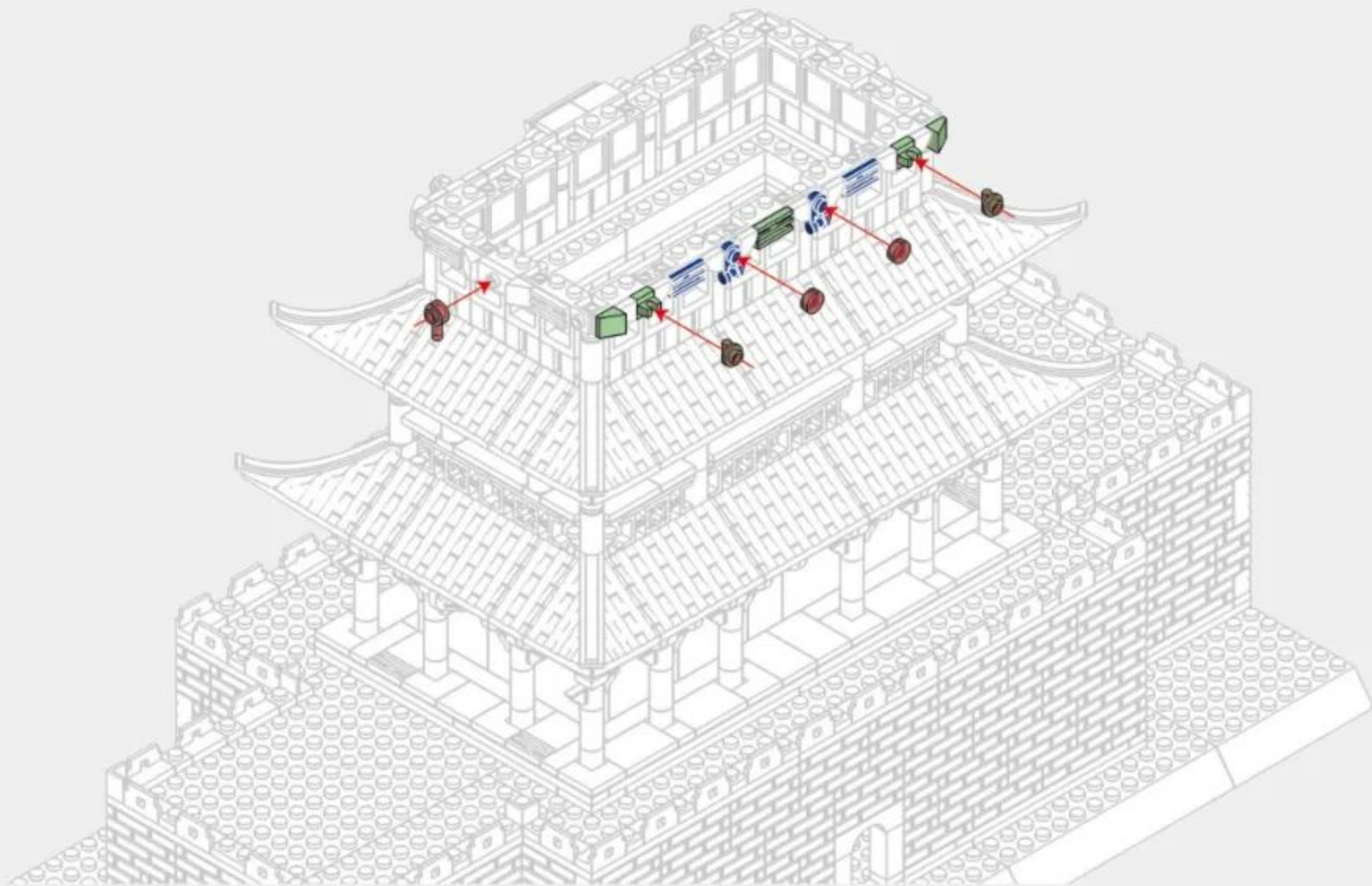
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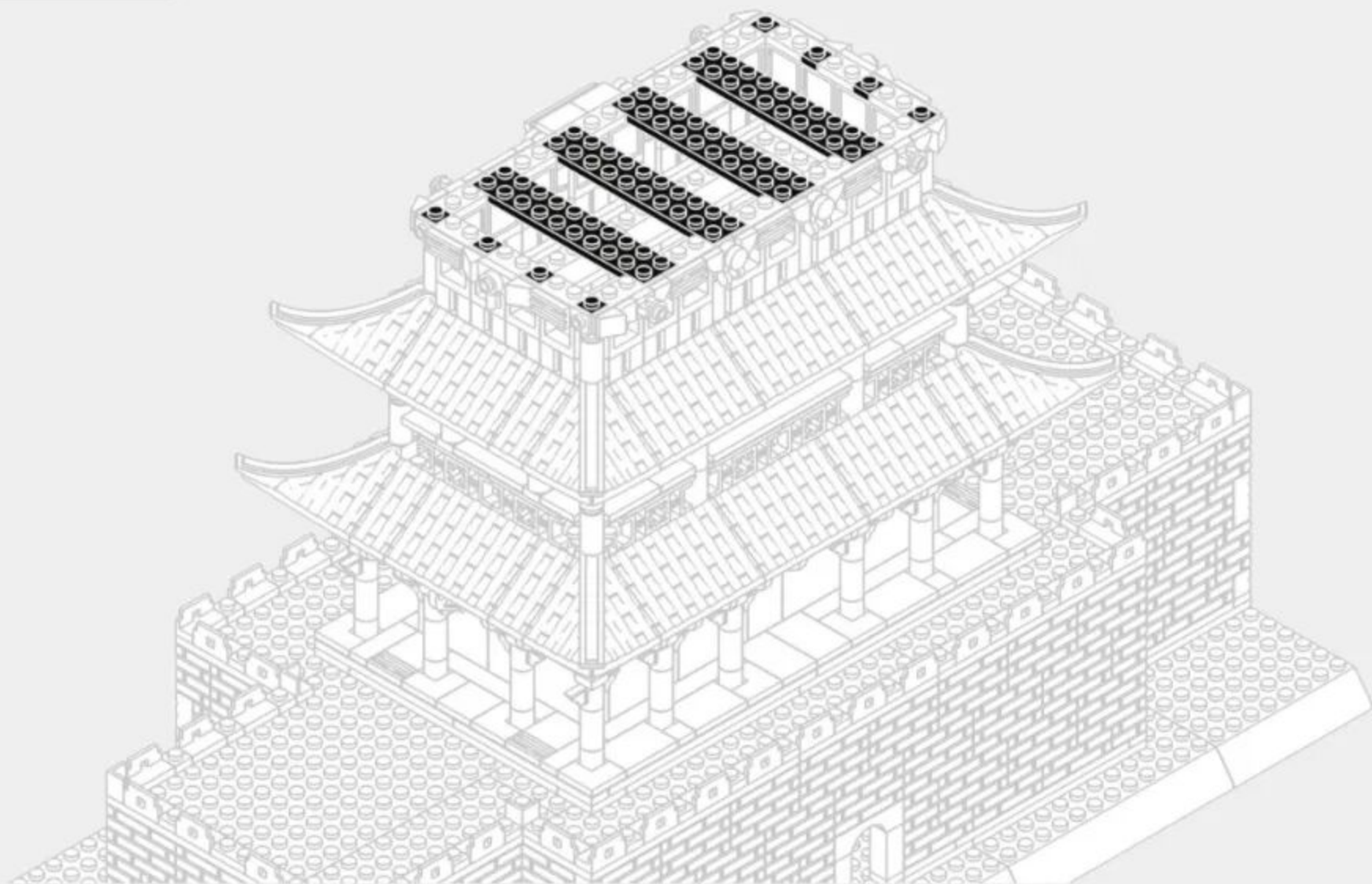
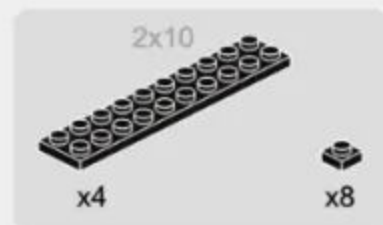
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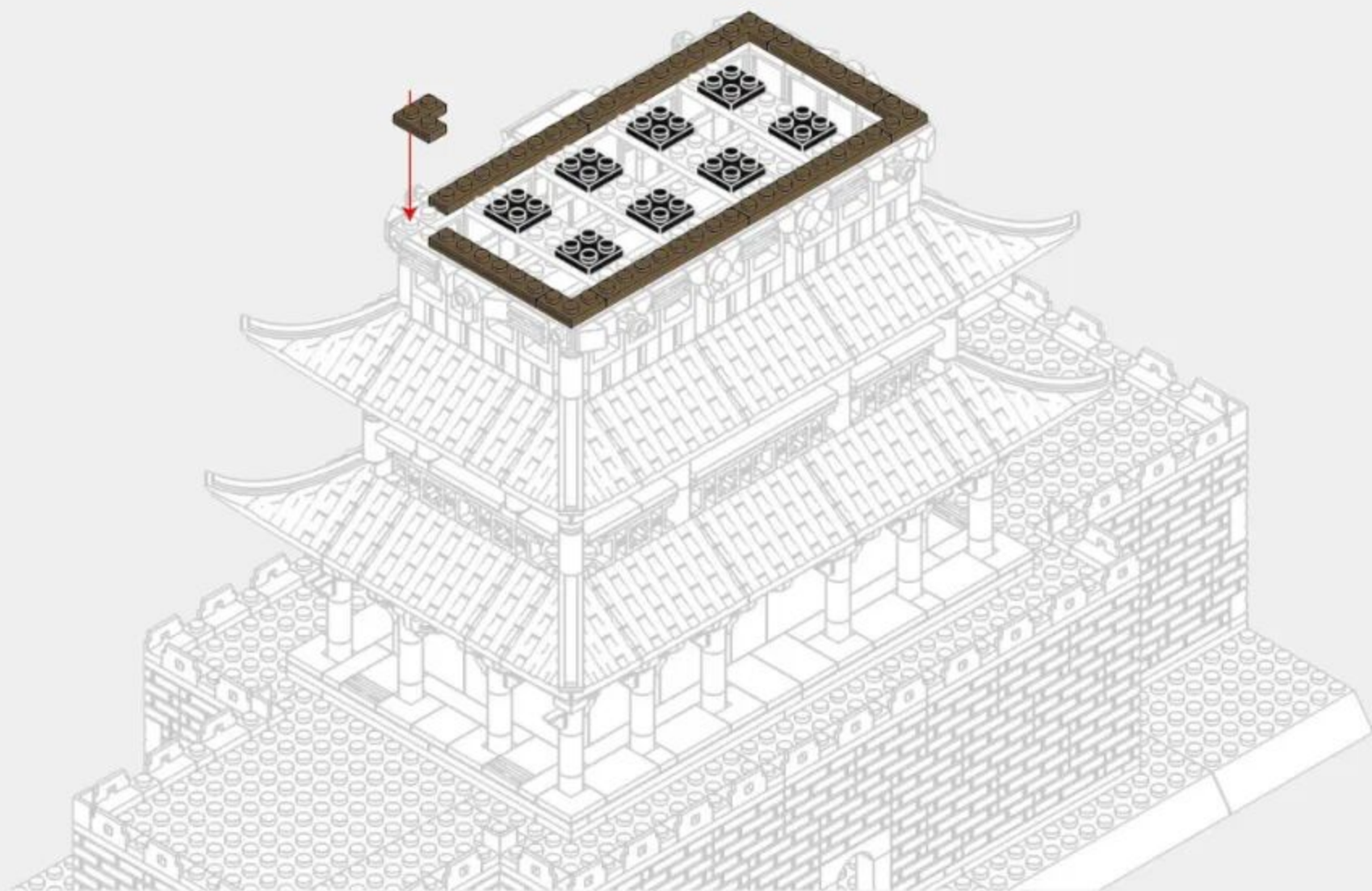
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6-7



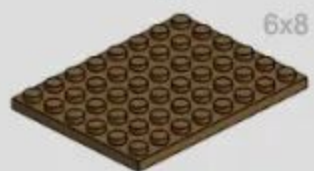
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6-9



x2



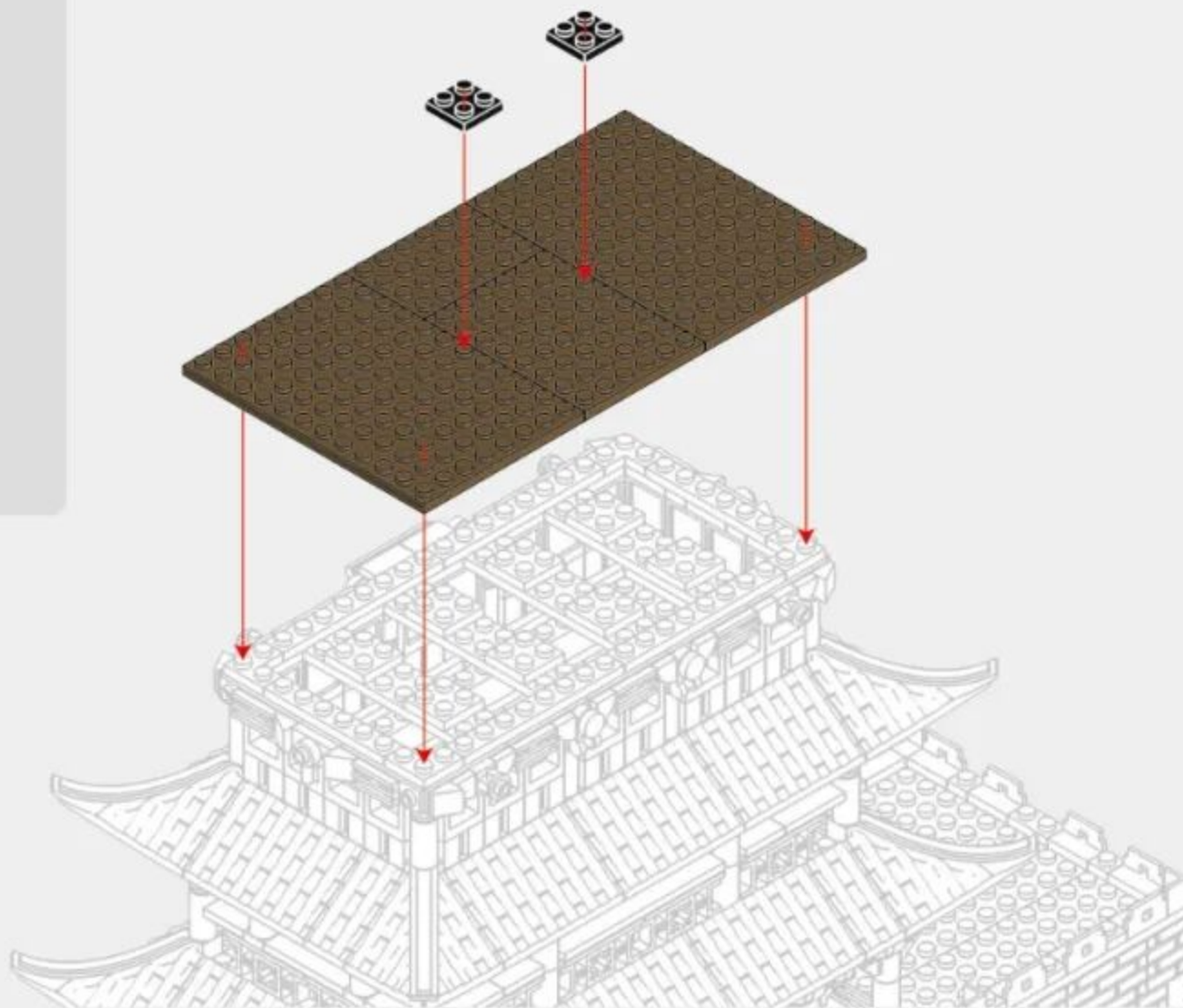
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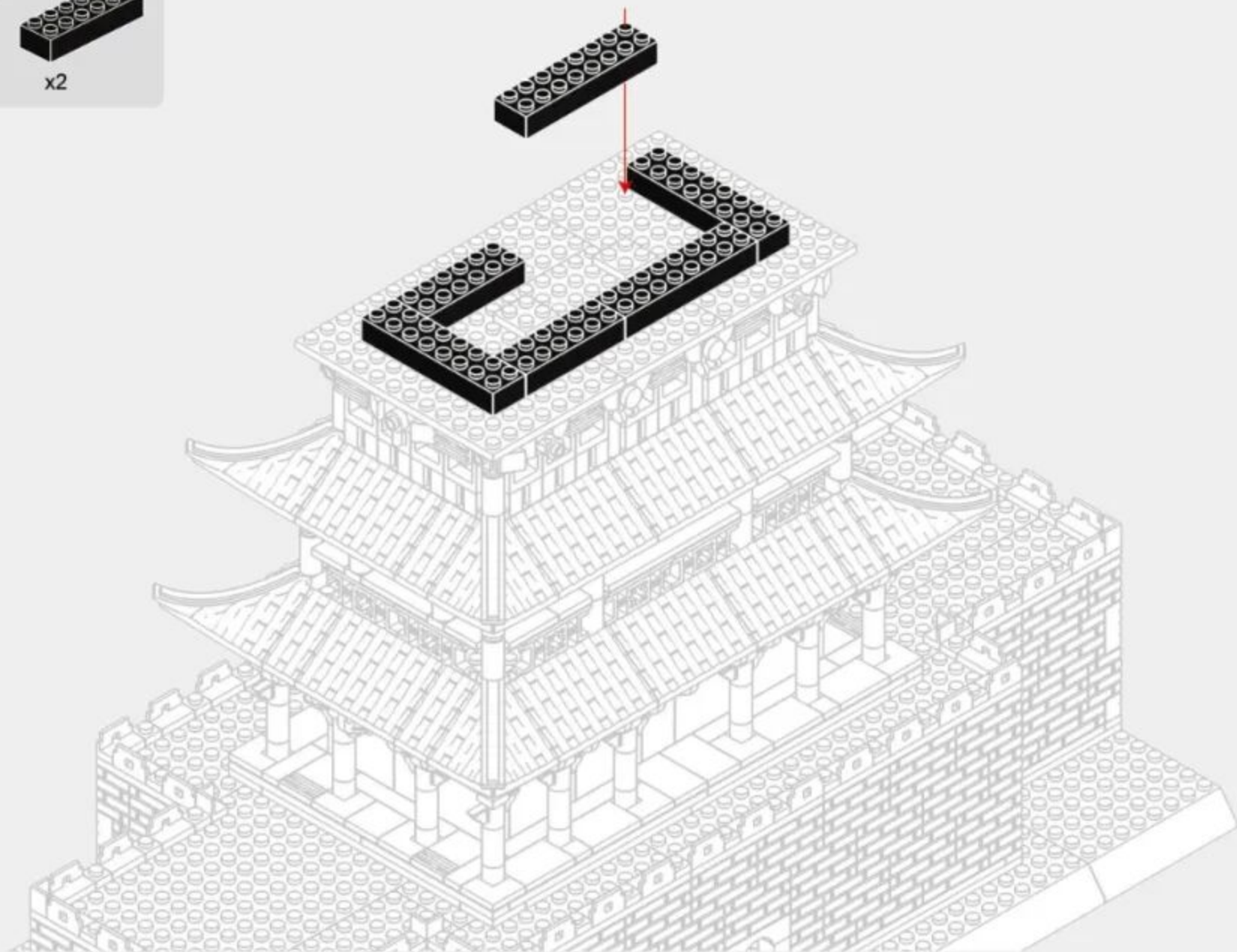
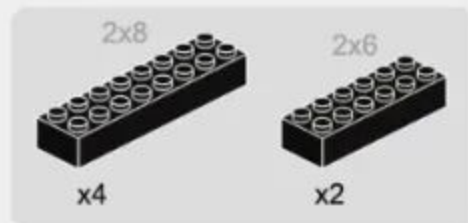
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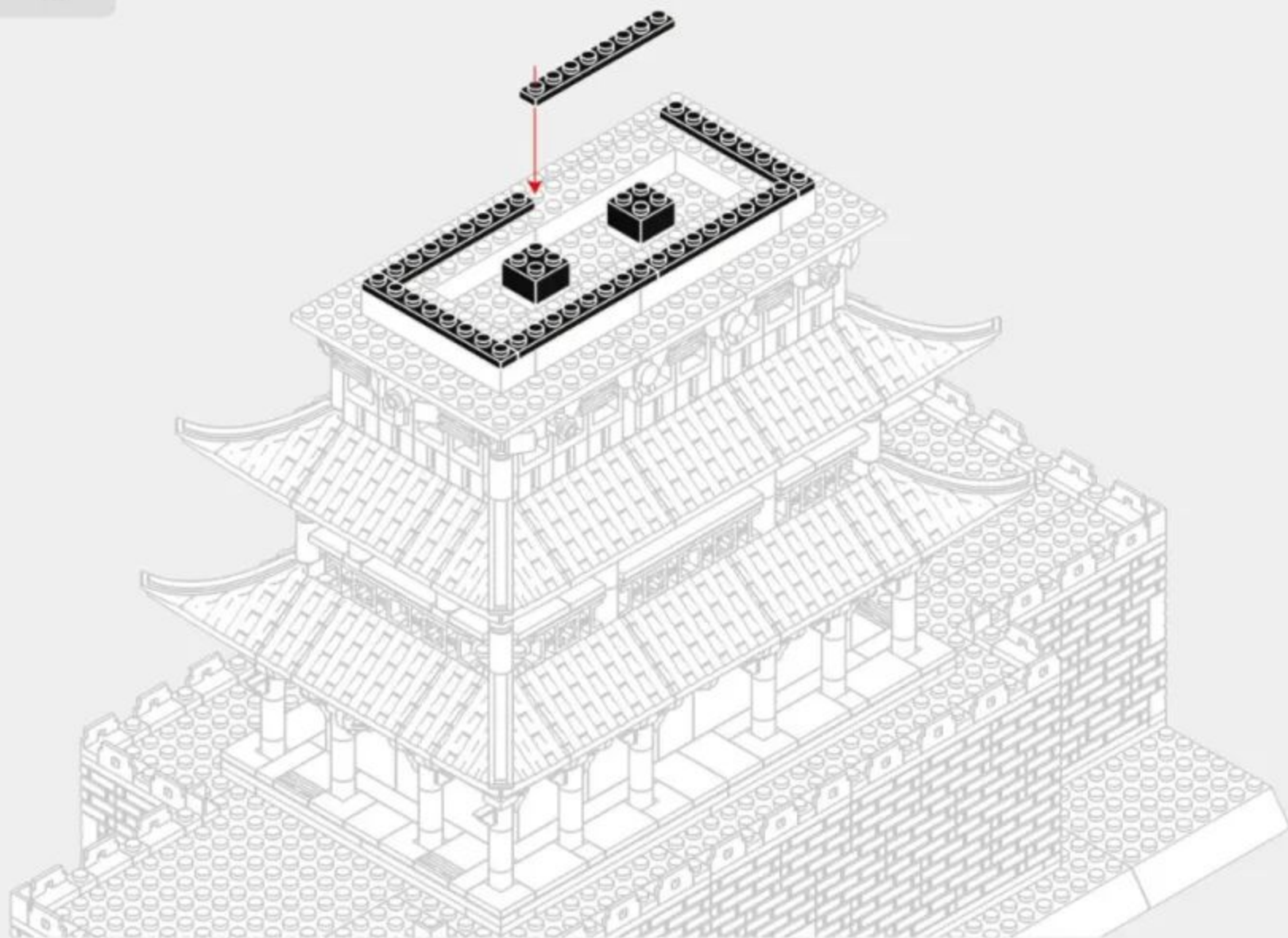
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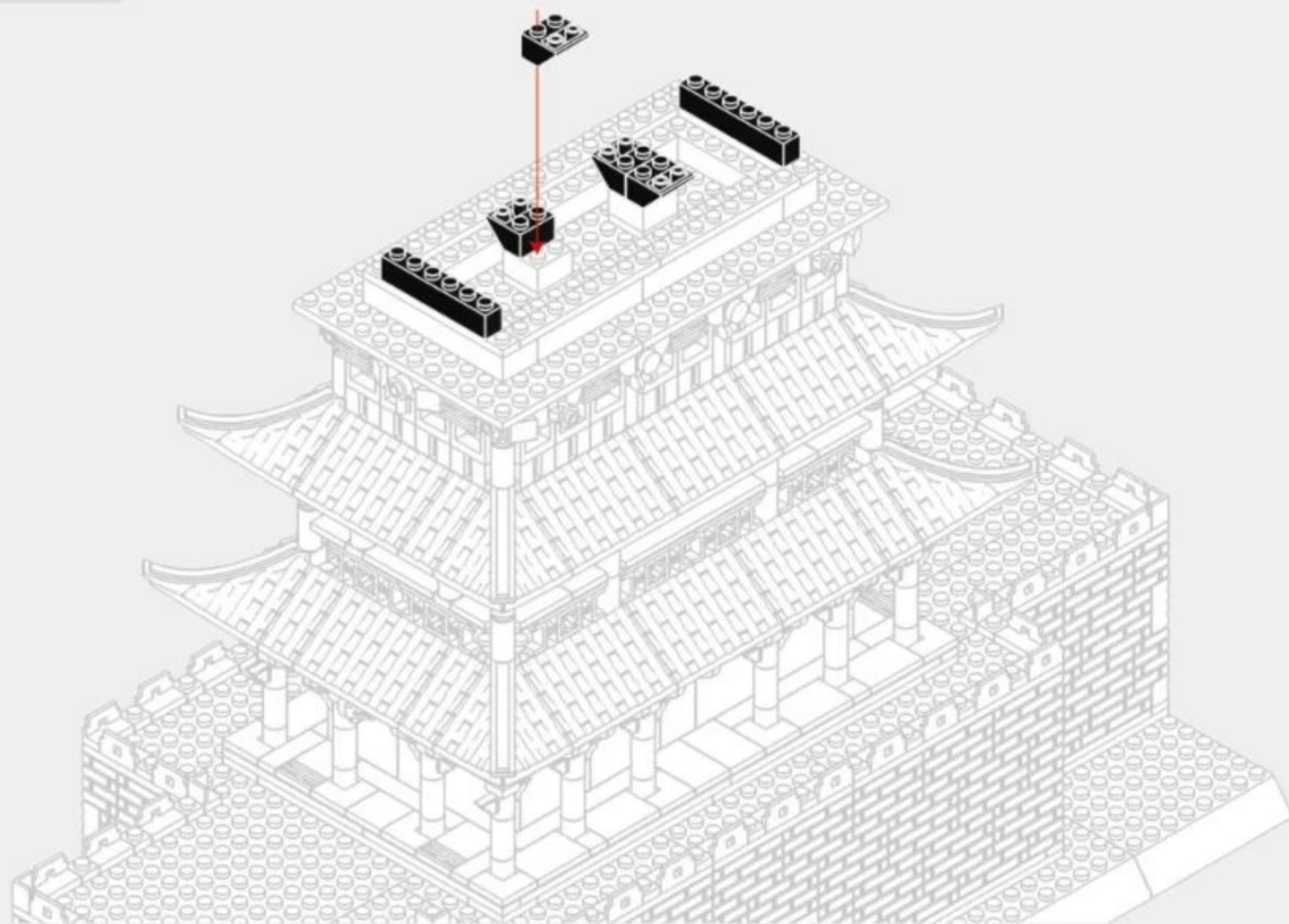
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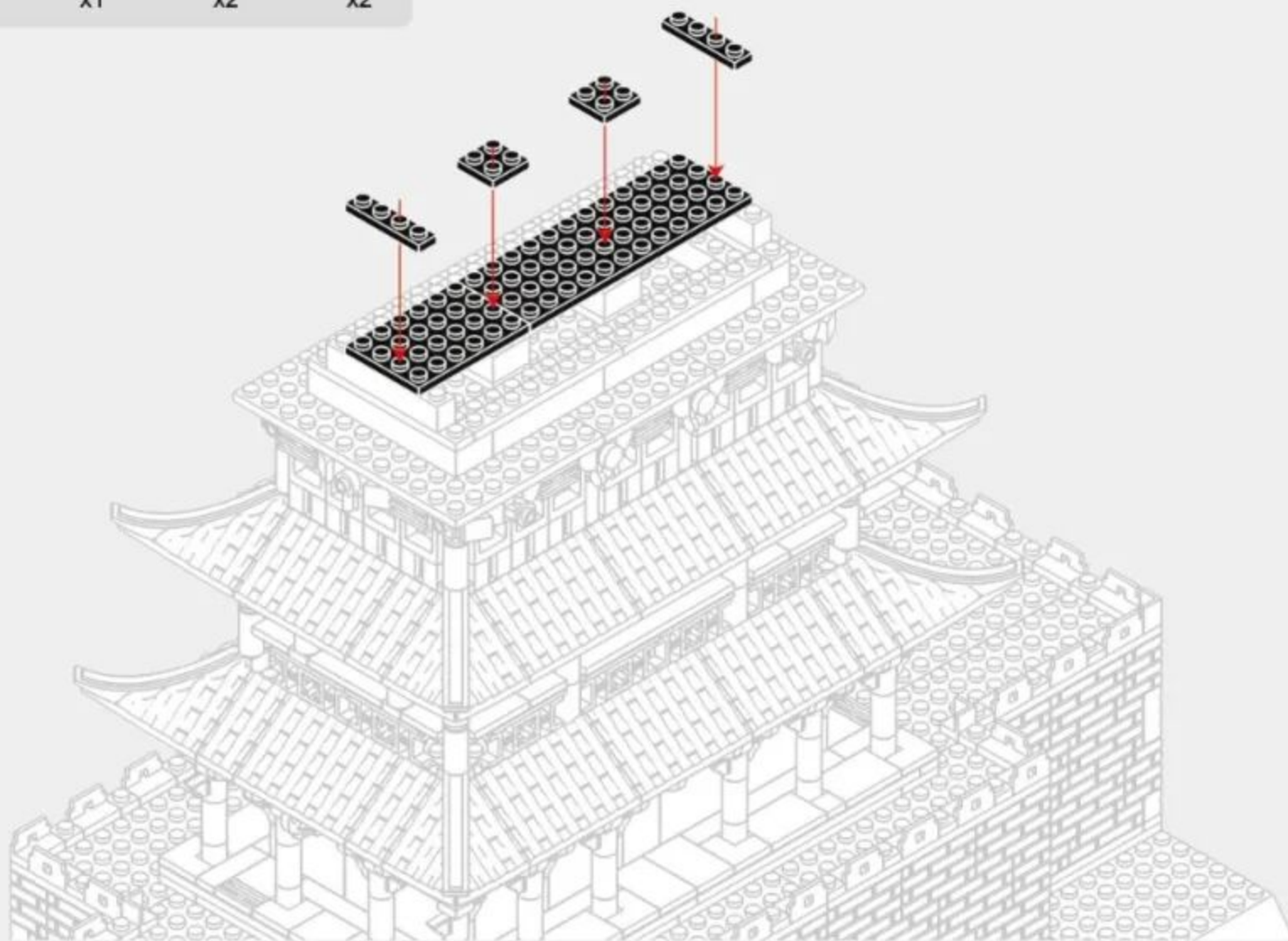
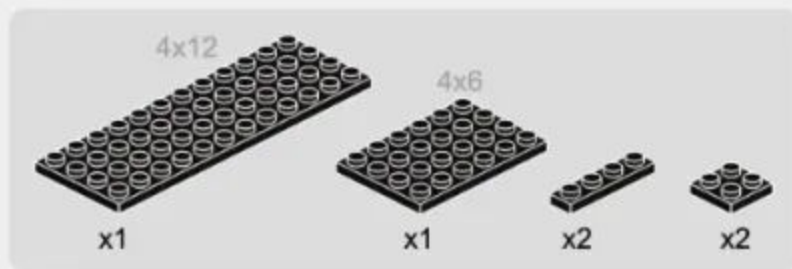
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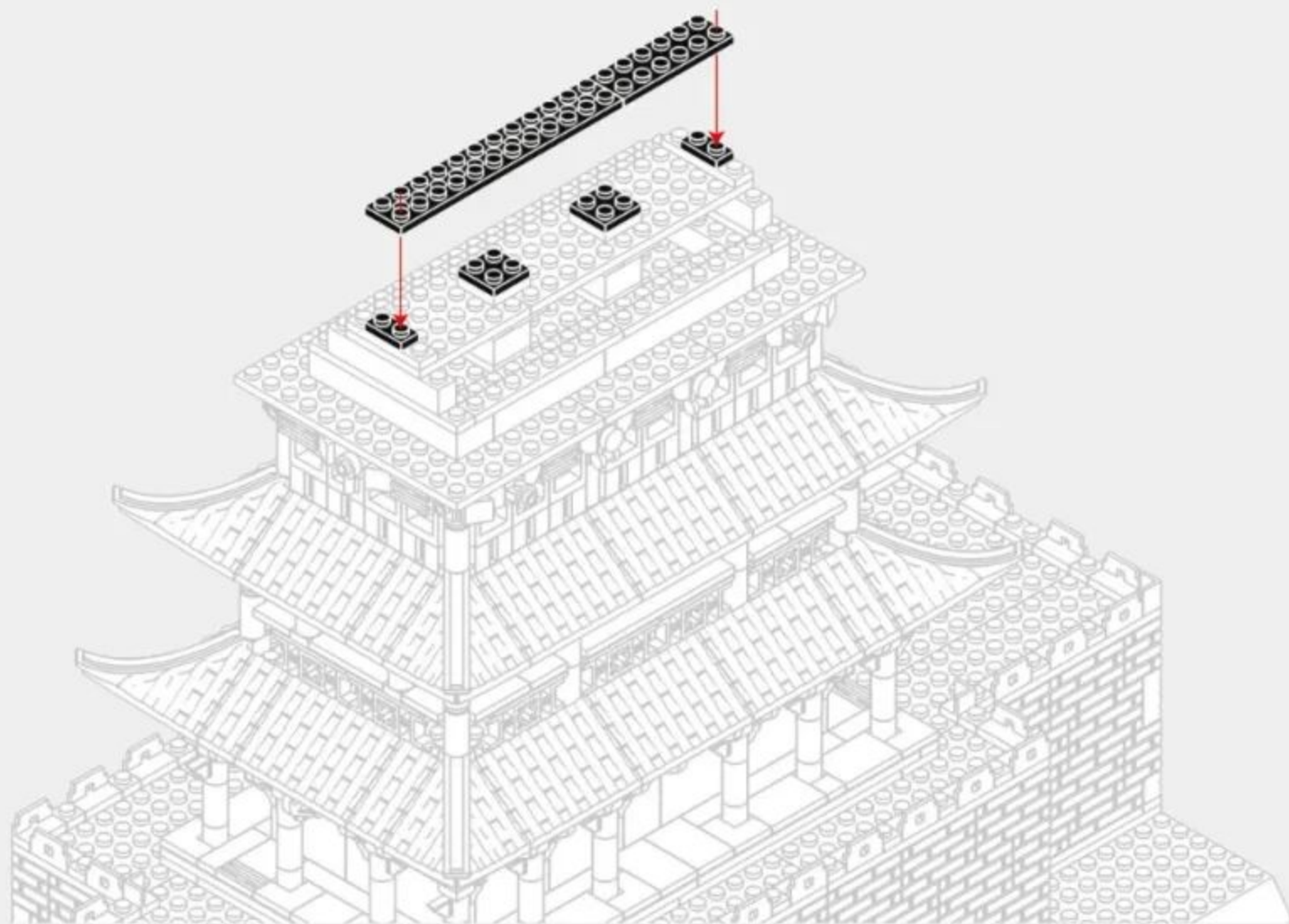
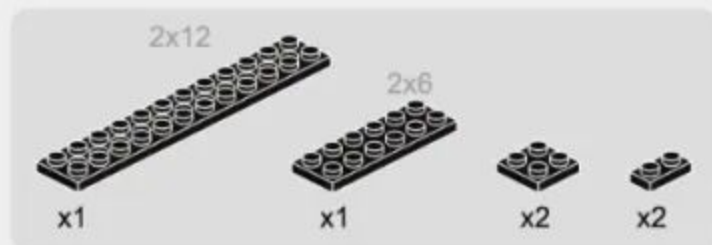
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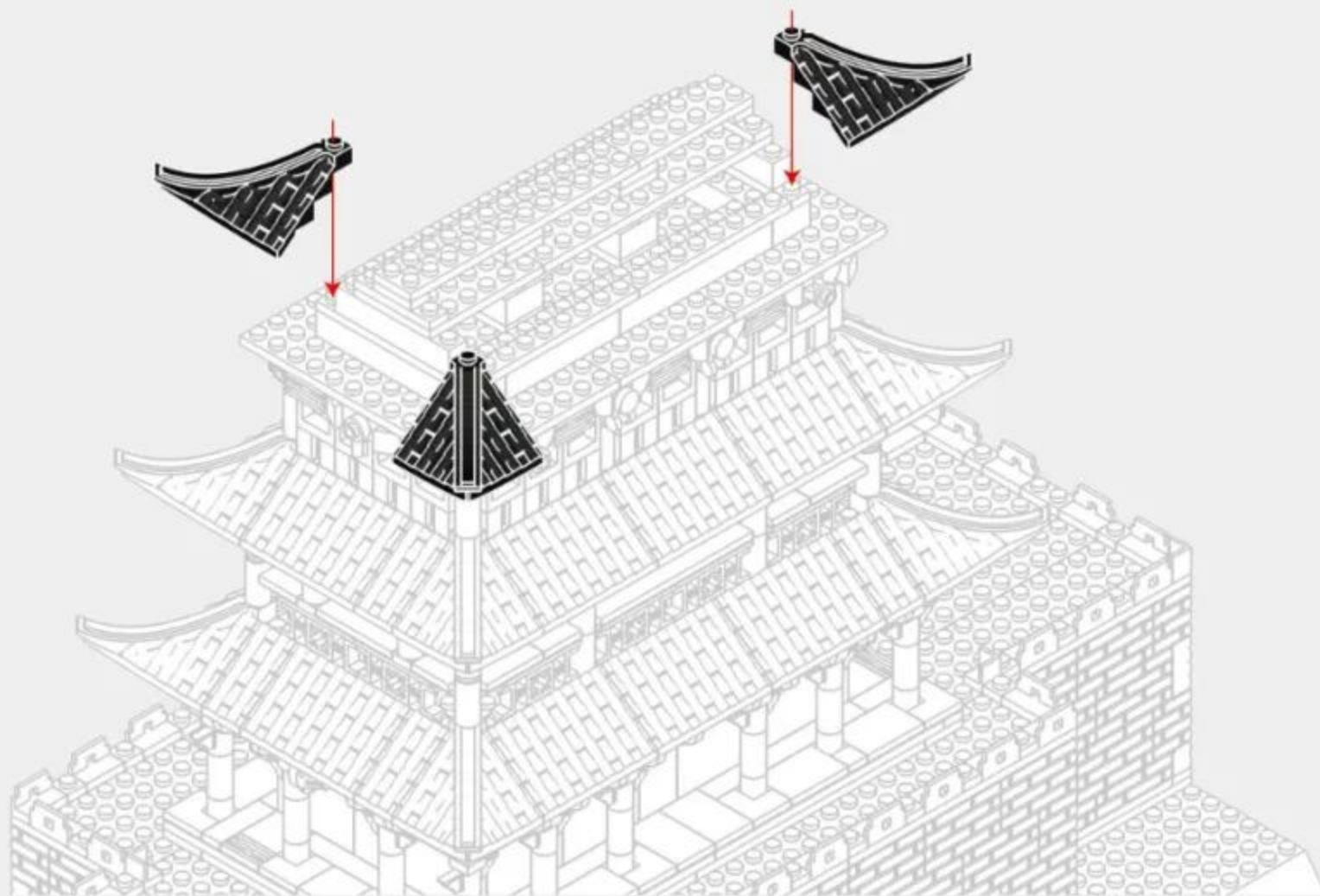
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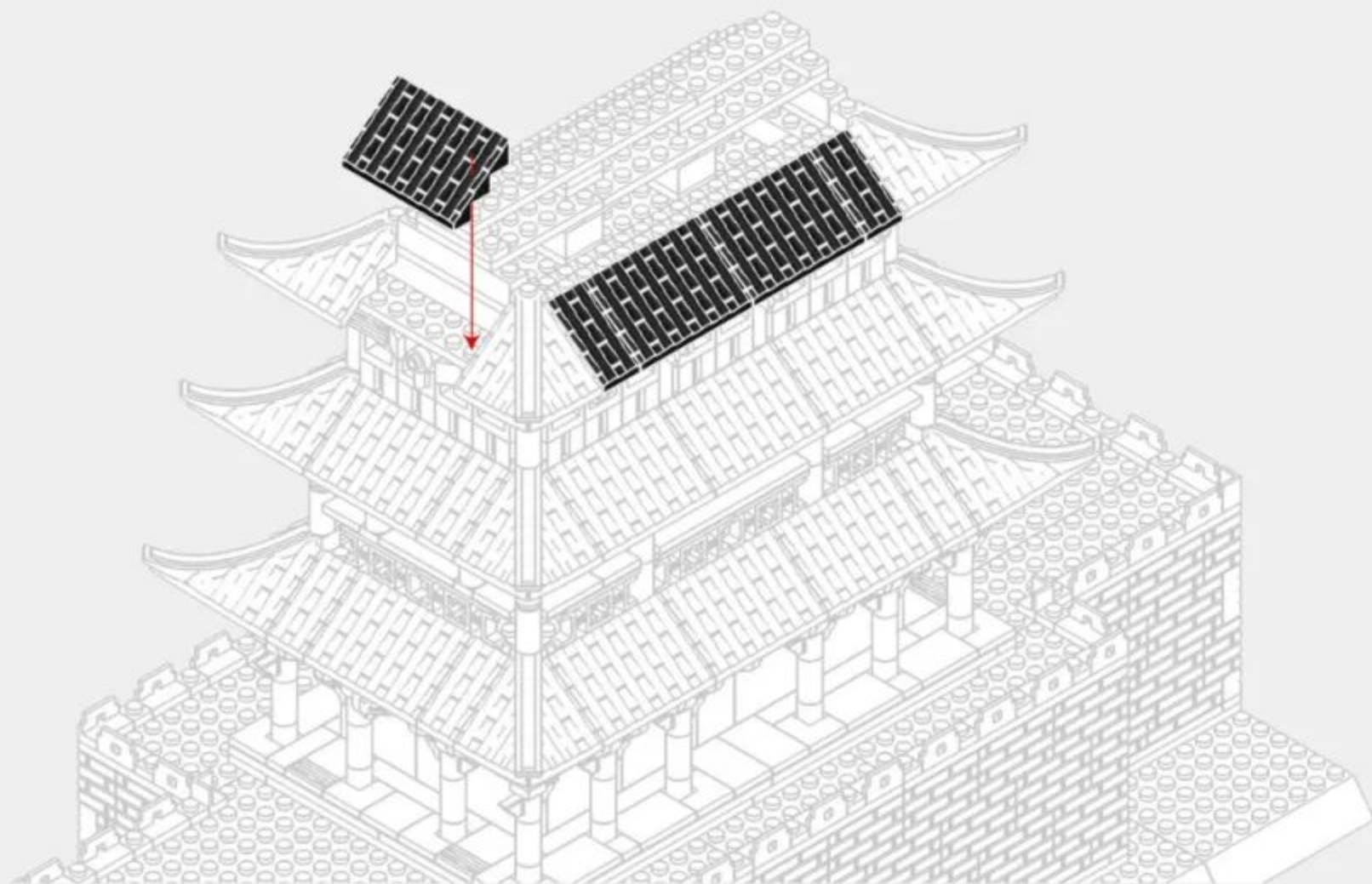
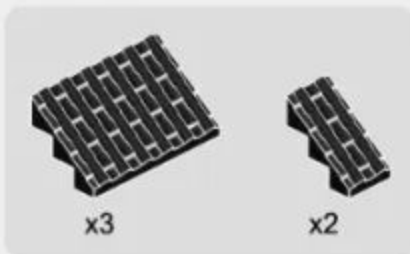
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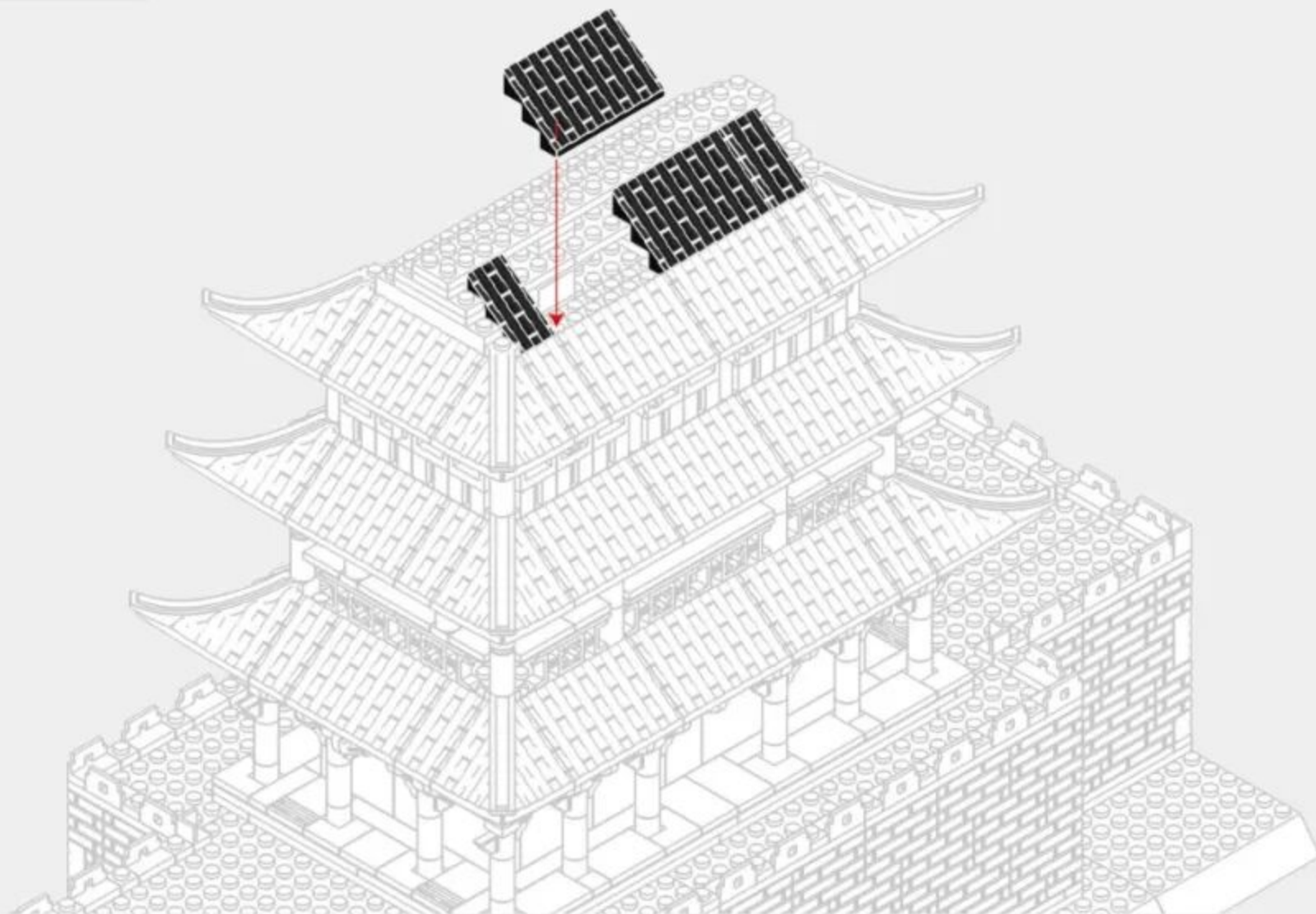
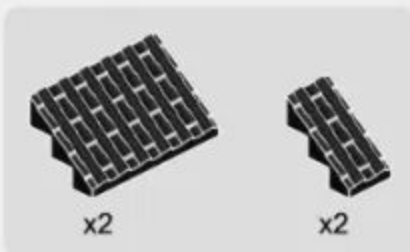
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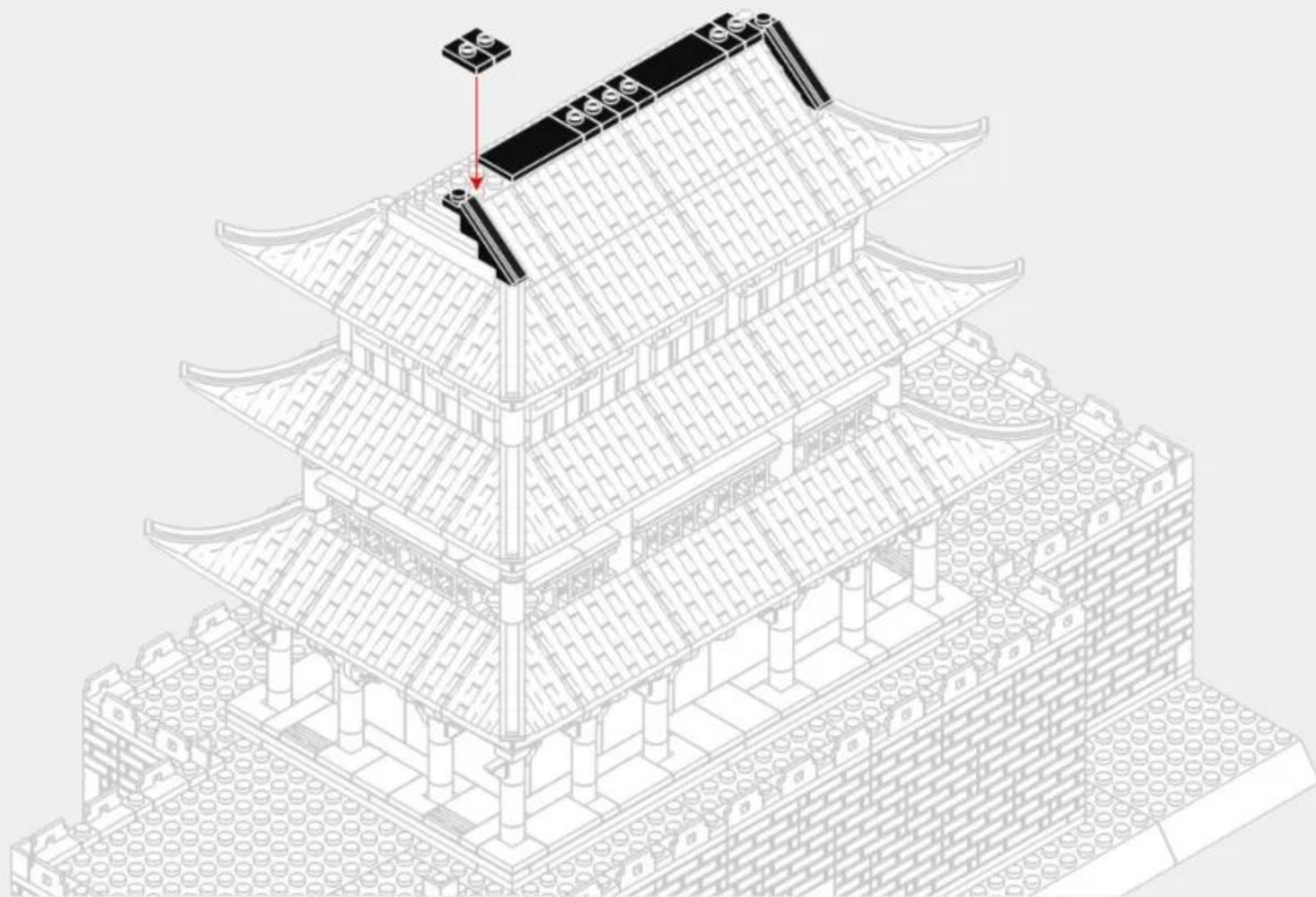
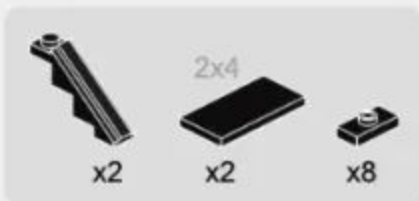
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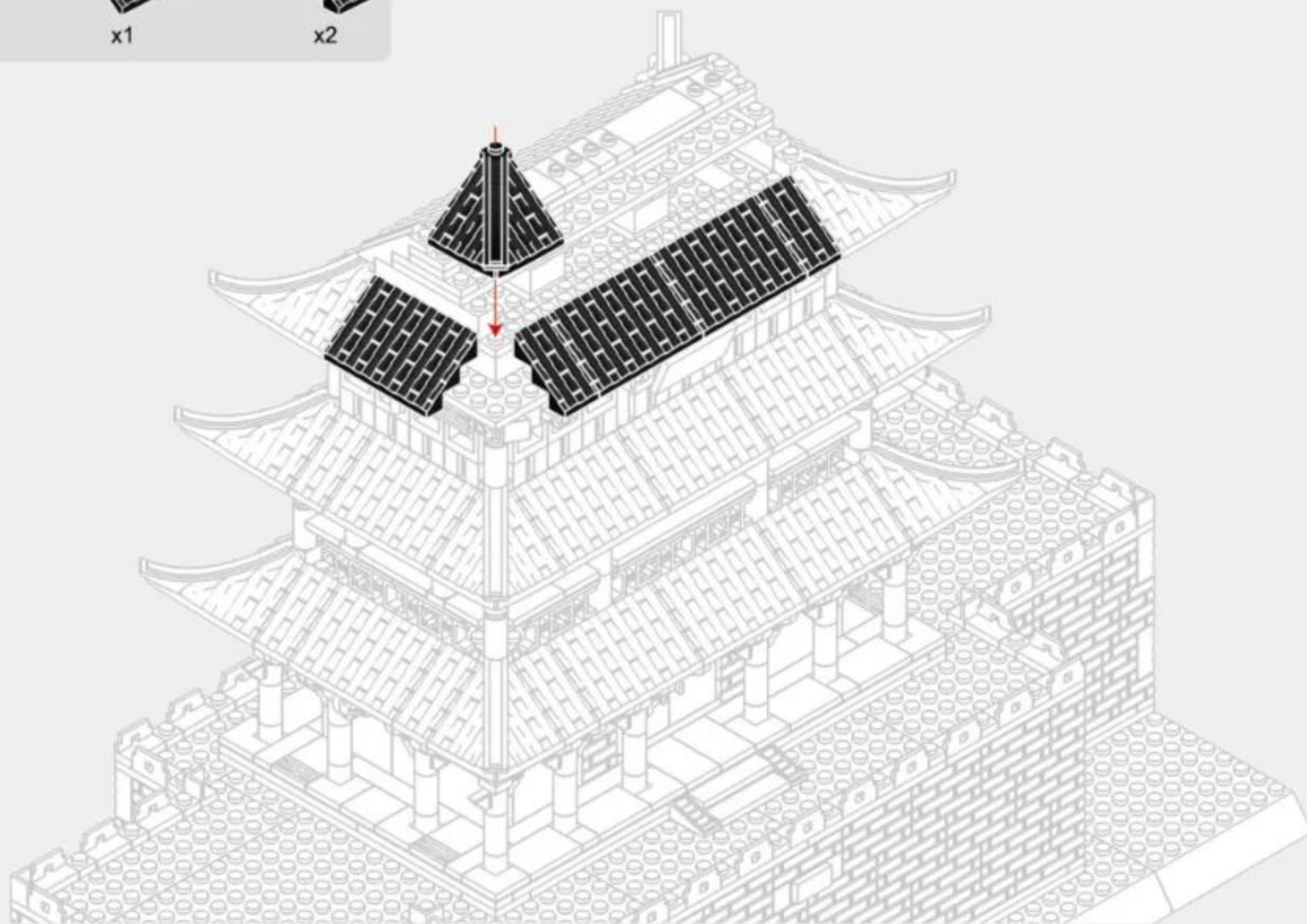
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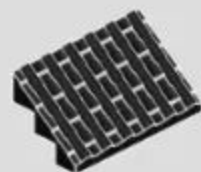
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6-19



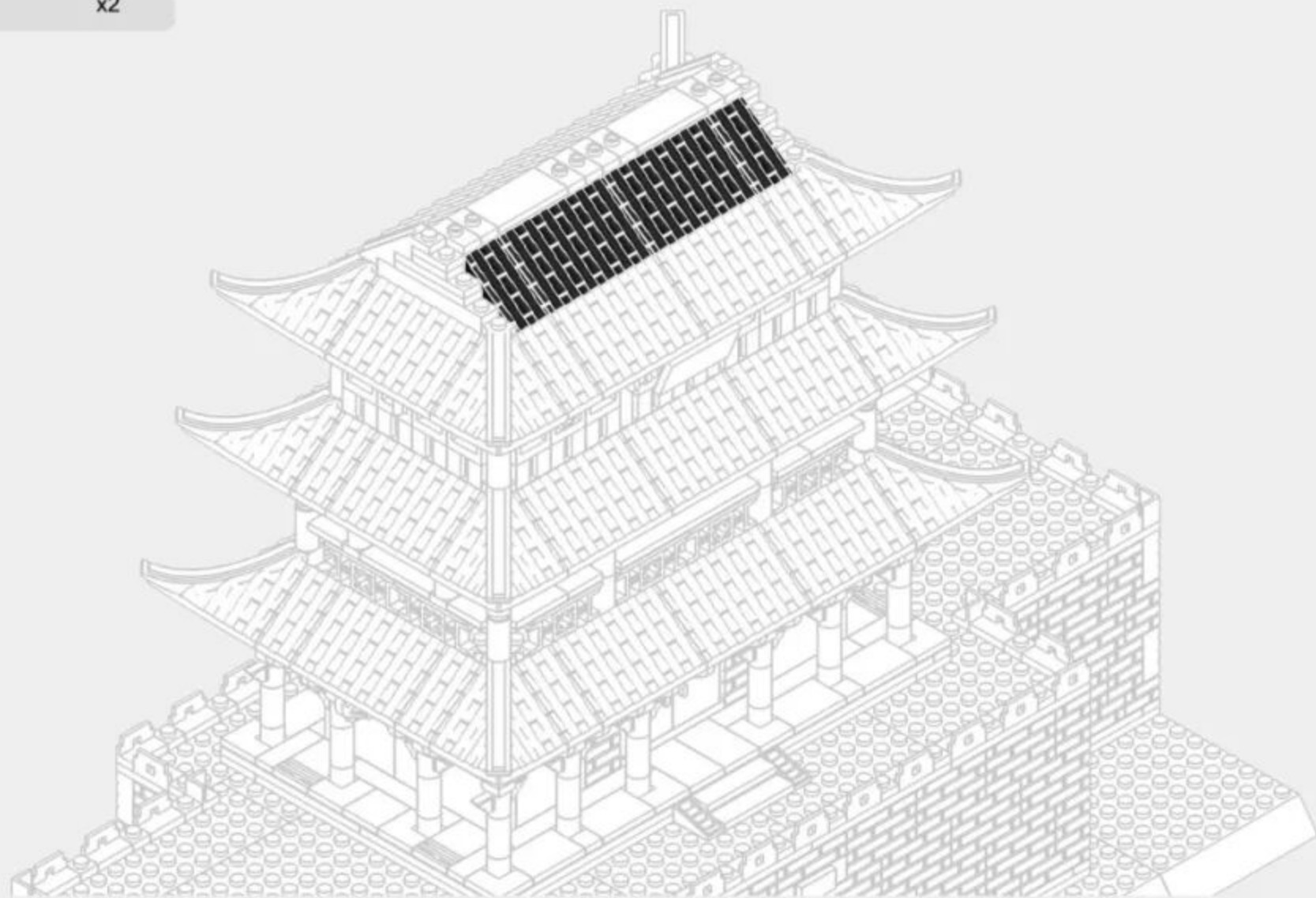
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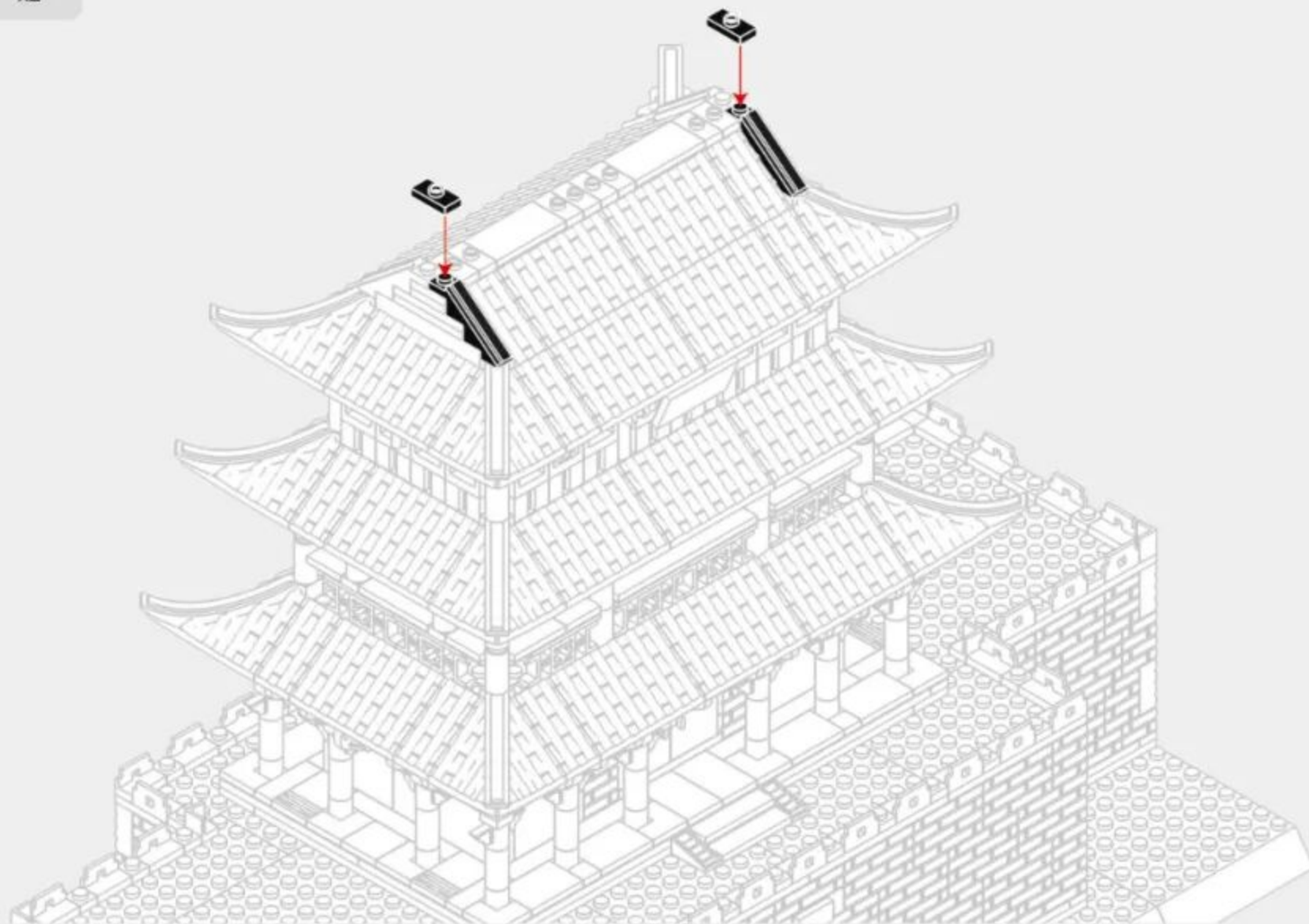
x2



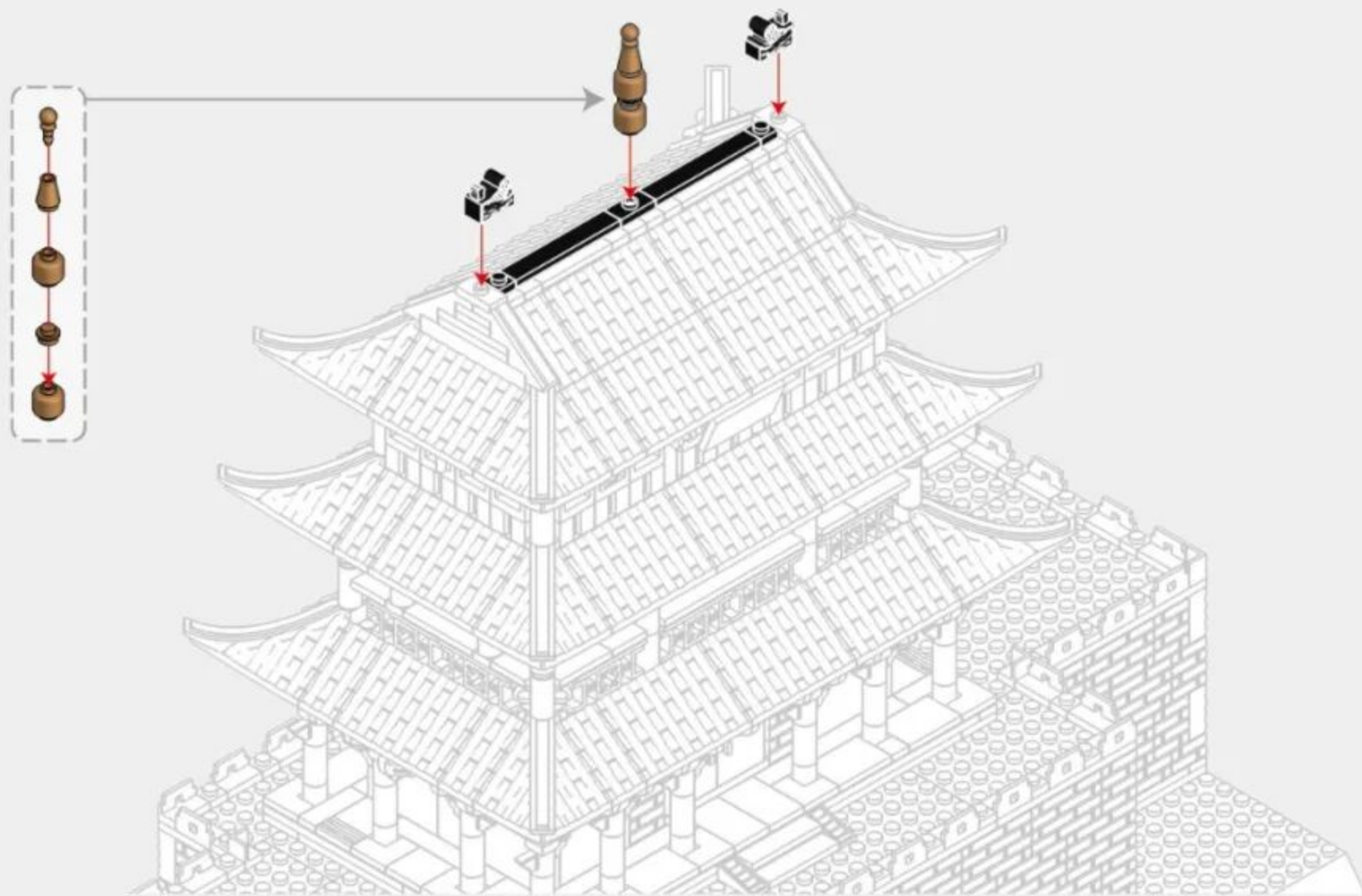
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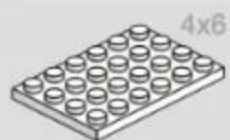
6-21



6-22



6-23



x1



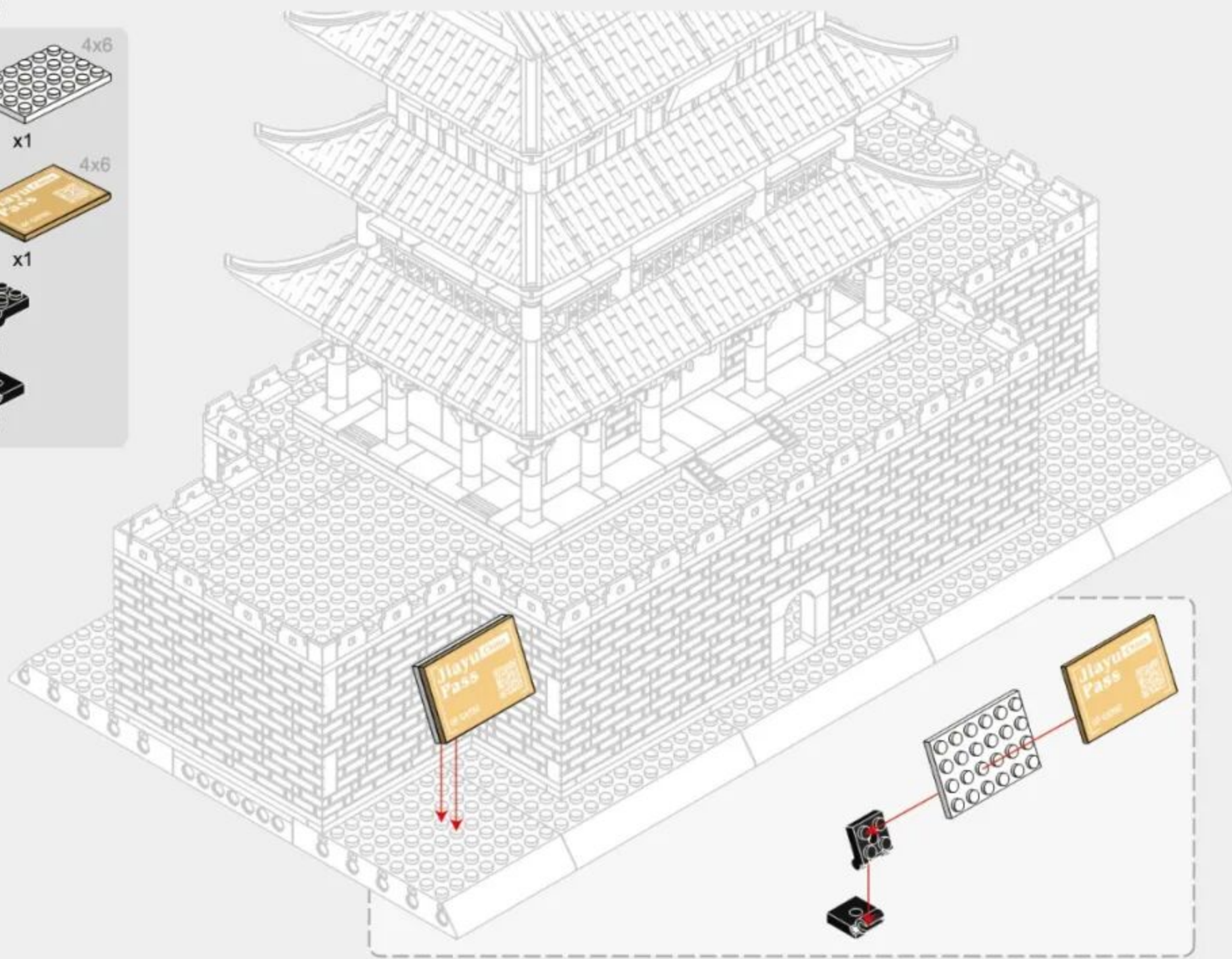
x1



x1



x1



6-23



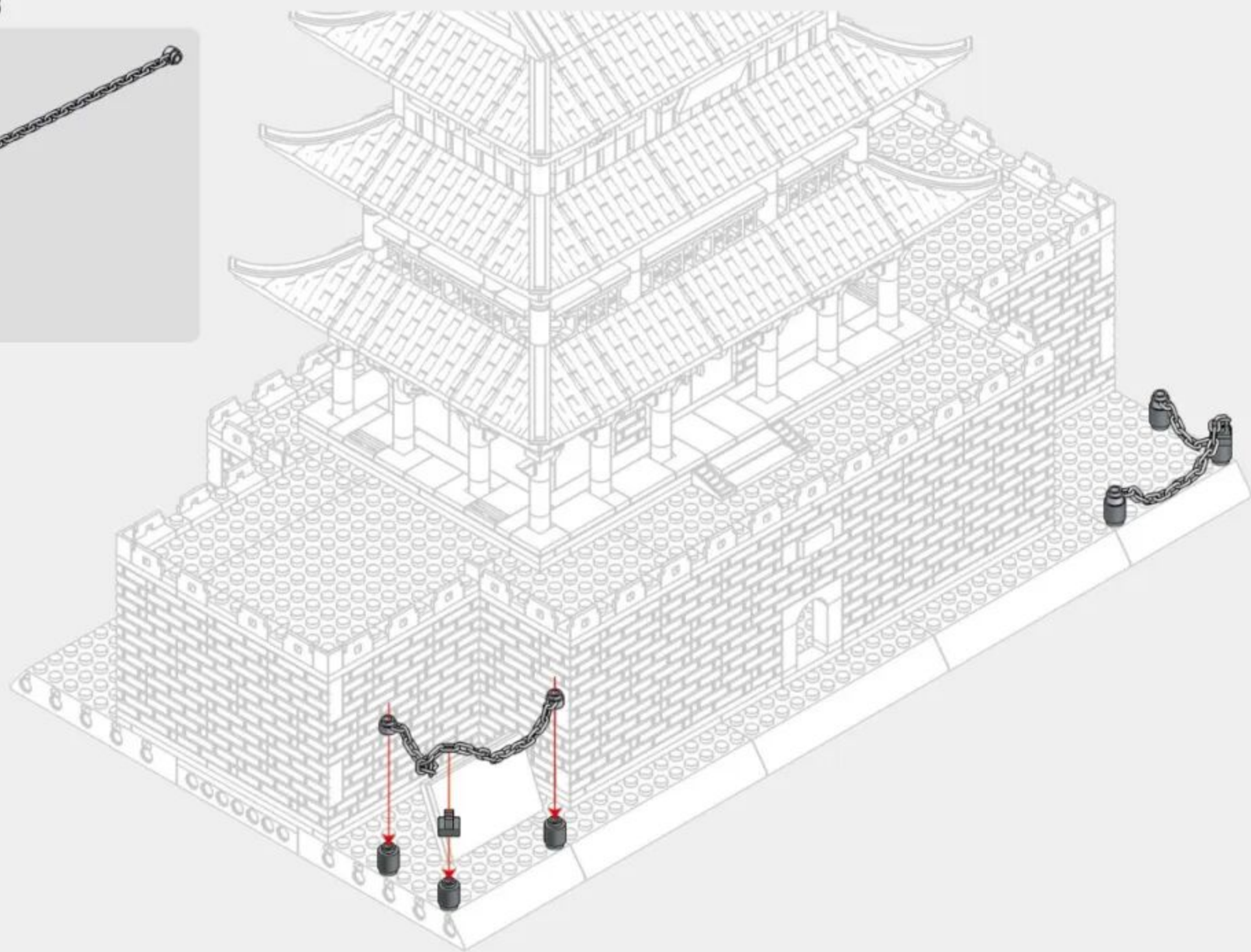
x2

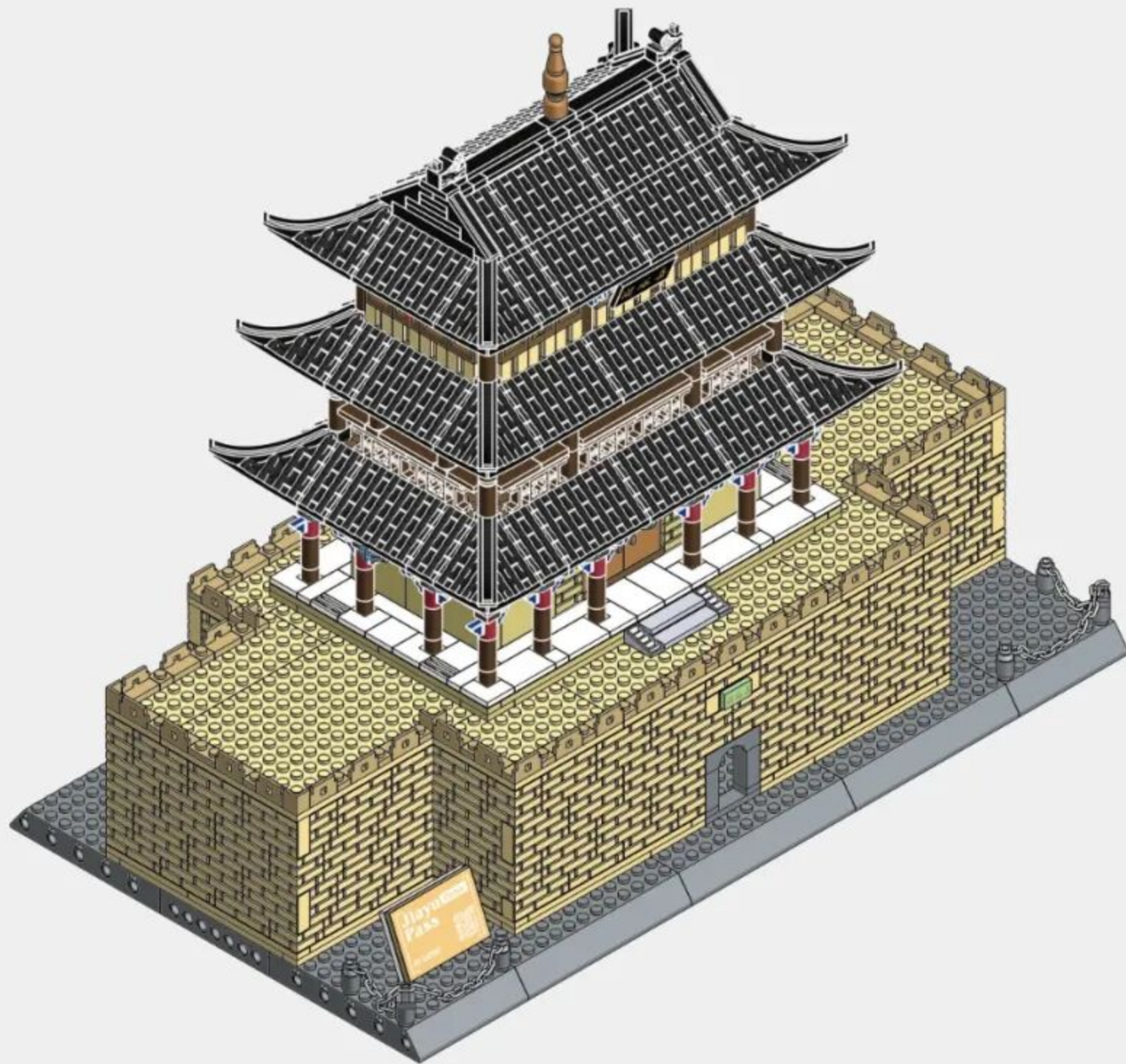


x6



x2





JIAYU PASS

COUNTRY: China
CITY: Gansu



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