



BIG BEN

BIG BEN

London, England

The world's great architecture



- Creative Ability
- Family Interaction
- Observation Ability
- Thinking Ability
- Practical Ability

6+ / 5216 / 1095 PCS
 Suitable Age / Product Number / Parts Total



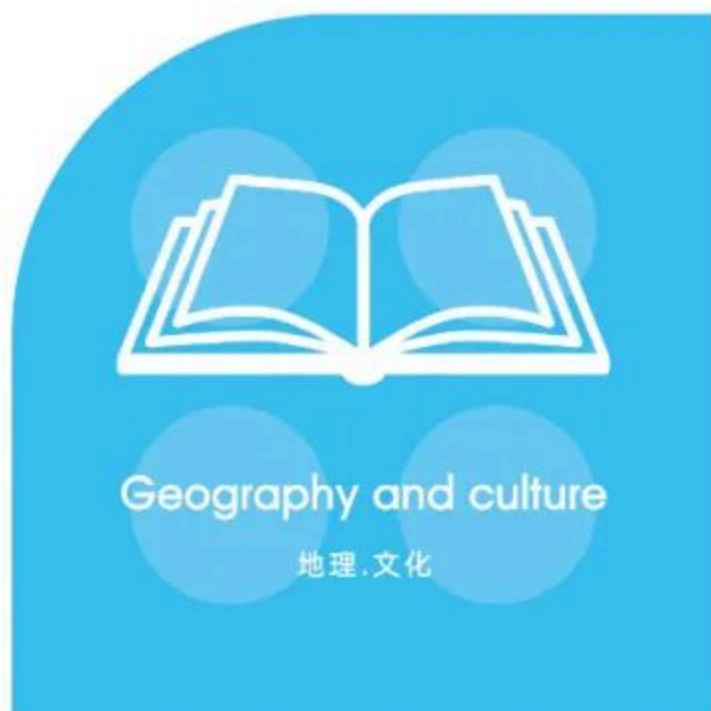
Architecture

It will be a city...

这将构成一座城市...

ABOUT THE PRODUCT

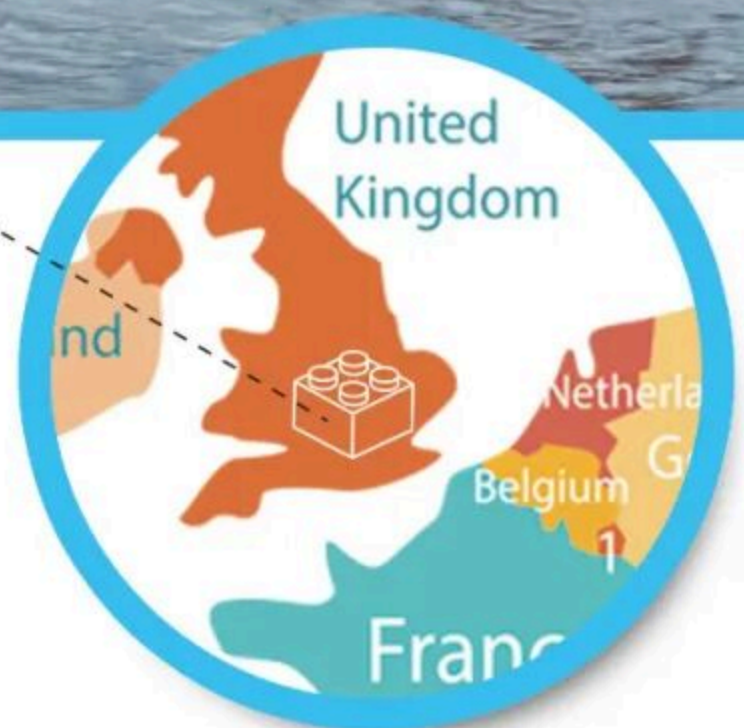
关于产品



ARCHITECTURE

WANGE The world's great architect since 1991

Big Ben



The Elizabeth Tower is the clock tower of the Palace of Westminster in London, England. It contains the Great Clock, a striking clock with five bells. The tower is nicknamed "Big Ben", which was originally a nickname for the largest bell (named the Great Bell).

Big Ben



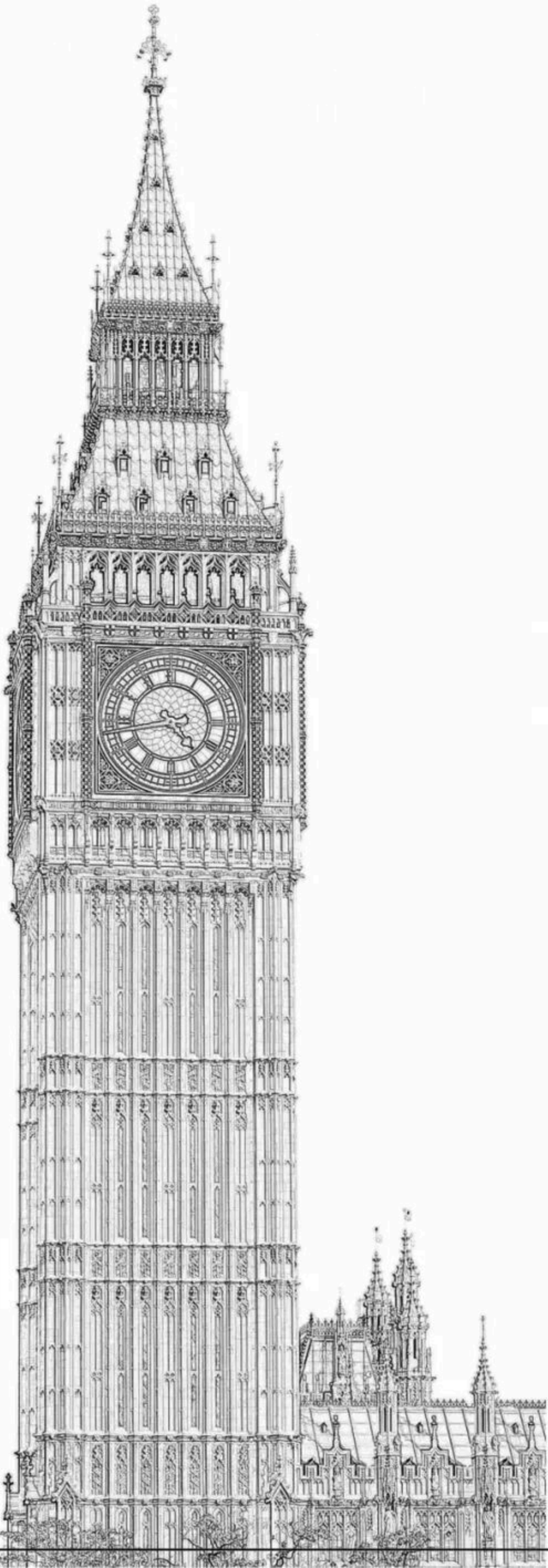
Geography and culture

地理·文化



The Elizabeth Tower is a British cultural icon. It is one of the most prominent symbols of the United Kingdom and parliamentary democracy, and it is often used in the establishing shot of films set in London.





Big Ben

Big Ben ■

England

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

Buildings and layout

■ 建筑物和布局



The tower was designed by Augustus Pugin in a Perpendicular Gothic Revival style and was completed in 1859. It is elaborately decorated and includes symbols related to the four nations of the United Kingdom, the Tudor dynasty, and a Latin inscription to Queen Victoria. The tower stands 316 feet (96 m) tall, and the climb from ground level to the belfry is 334 steps. Its base is square, measuring 40 feet (12 m) on each side. The dials of the clock are 22.5 feet (6.9 m) in diameter.

La torre también está diseñada en estilo neogótico y tiene una altura de 96,3 metros (alrededor de 16 pisos). El cuerpo de la torre, de 61 metros, se compone de ladrillo con revestimiento de piedra caliza de Anston color arena. Los 35 metros restantes los forma el chapitel de hierro fundido, en cuyo interior hay un pequeño mirador y un faro conocido como Ayrton Light, llamado así en honor al político Acton Smeeth Ayrton, y que se enciende cada vez que el Parlamento está reunido después del atardecer. La torre está asentada sobre una base de hormigón de 15 metros de lado y tres metros de espesor, con una profundidad de cuatro metros bajo el nivel del suelo. Los cuatro relojes están situados a 55 metros de altura. El volumen estimado del interior de la torre es de unos 4.650 metros cúbicos, y esta tiene un peso próximo a las 8.667 toneladas.



Symbolism

The clock has become a cultural symbol of the United Kingdom, particularly in the visual media. When a television or film-maker wishes to indicate a generic location in the country, a popular way to do so is to show an image of the tower, often with a red double-decker bus or black cab in the foreground. It has also been named as the most iconic film location in London.

El reloj se ha convertido en un símbolo cultural del Reino Unido y de la ciudad de Londres, especialmente en los medios audiovisuales. La imagen más icónica del país y la ciudad en el cine y la televisión es la de la torre, normalmente acompañada de un autobús de dos pisos, la típica cabina telefónica roja londinense o uno de los taxis negros de la ciudad. También es considerada la imagen más icónica para las películas rodadas en Londres.



Design and construction

Completed in 1859, the tower is designed in Pugin's Gothic Revival style and is 316 feet (96.3 m) high, making it the third tallest clock tower in the UK. Its dials (at the centre) are 180 feet (54.9 m) above ground level. The tower's base is square, measuring 40 feet (12.2 m) on each side, resting on concrete foundations 12 feet (3.7 m) thick. It was constructed using bricks clad on the exterior with sand-coloured Anston limestone from South Yorkshire, topped by a spire covered in hundreds of cast-iron roof tiles. There is a spiral staircase with 290 stone steps up to the clock room, followed by 44 to reach the belfry, and an additional 59 to the top of the spire. A ventilation shaft running from ground level up to the belfry, which measures 16 feet (4.9 m) by 8 feet (2.4 m).

Terminada en 1859, la torre está diseñada en el estilo neogótico de Pugin y tiene 316 pies (96,3 m) de altura, lo que la convierte en la tercera torre de reloj más alta del Reino Unido. Sus diales (en el centro) están a 54,9 m (180 pies) sobre el nivel del suelo. La base de la torre es cuadrada, mide 40 pies (12,2 m) de cada lado y descansa sobre cimientos de hormigón de 12 pies (3,7 m) de espesor. Se construyó con ladrillos revestidos en el exterior con piedra caliza Anston de color arena del sur de Yorkshire, rematado por una aguja cubierta por cientos de tejas de hierro fundido. Hay una escalera de caracol con 290 escalones de piedra hasta la sala del reloj, seguida de 44 para llegar al campanario y 59 adicionales hasta la cima de la aguja. Un conducto de ventilación que va desde el nivel del suelo hasta el campanario, que mide 16 pies (4,9 m) por 8 pies (2,4 m).

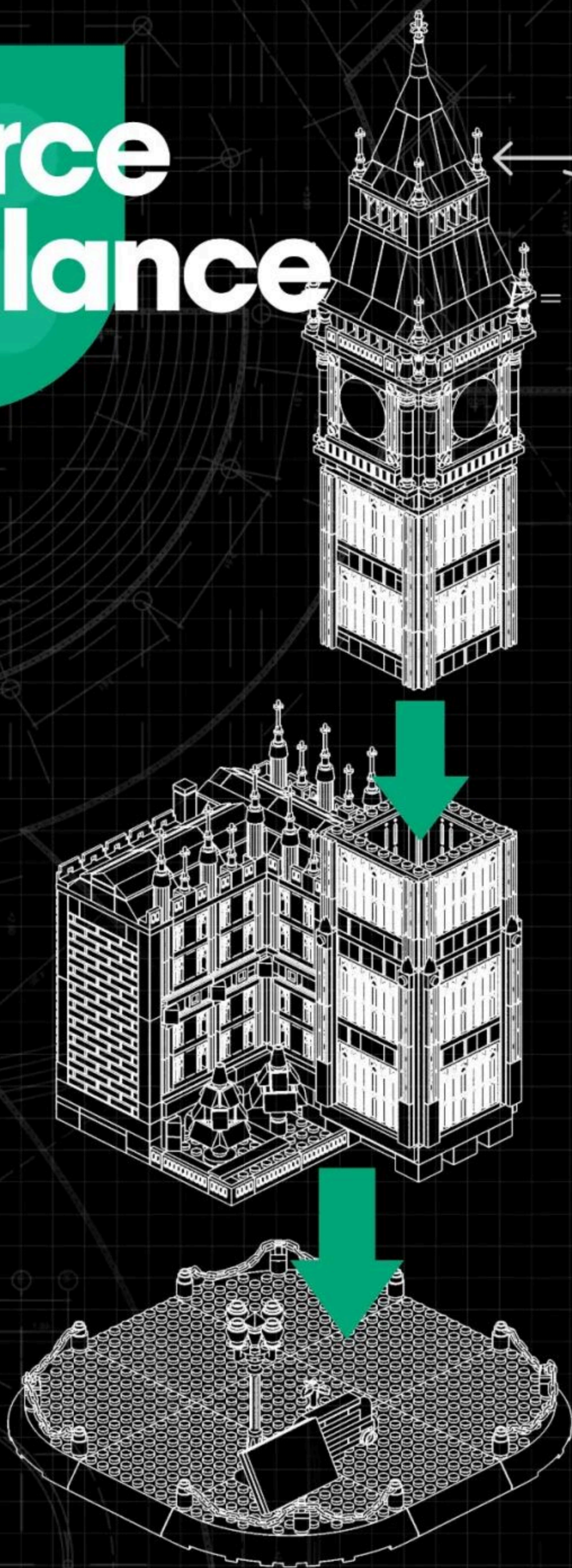
Force Balance

受力平衡

Physical operations

物理运算

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



Creation and thinking

创作·思考

08

Special parts

特殊零件的开发利用

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

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



WG0508

塔桥顶尖



WG1516

圆罗马柱



WG1344

方形通孔



WG1506

1孔拱形栏杆



WG1340

小锥体1孔



WG1507

转角拱形栏杆



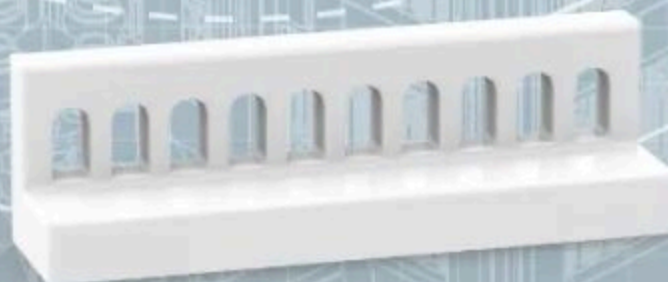
WG1279

方孔小短椅



WG1430

圆缺口尖顶



WG1342

4孔拱形栏杆

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



features and functions

特点.功能

Main Color Matching

配色方案



Pantone Black 6C



Pantone 655C



Pantone 431C



Pantone Cool Gray 6C



Pantone 3435C



Pantone 348C



Pantone 477C



Pantone 7509C



Pantone 7620C



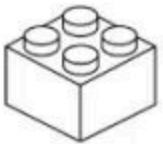
Pantone 109C



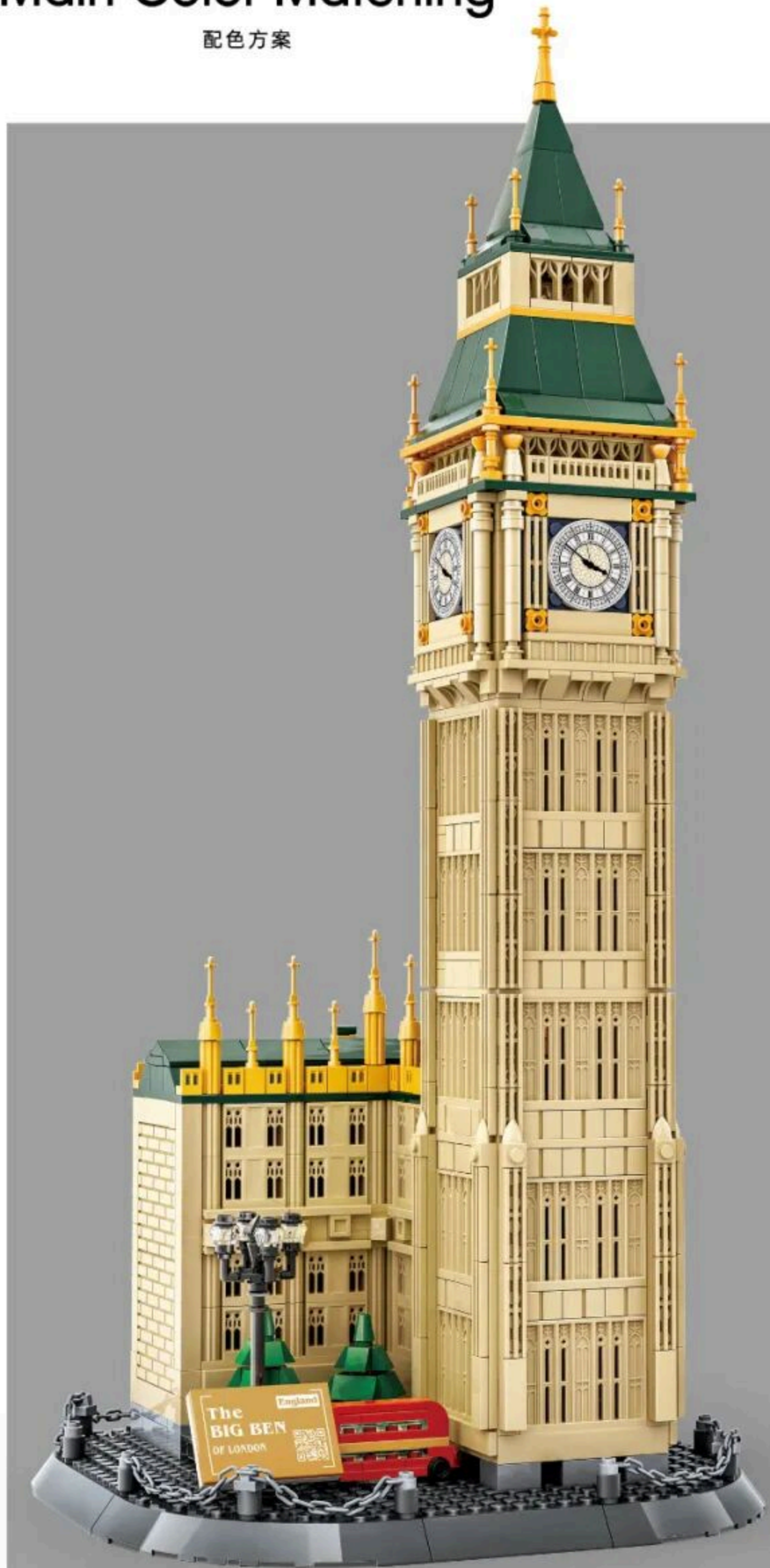
Pantone 7500C



Pantone 2184C



White



Color matching

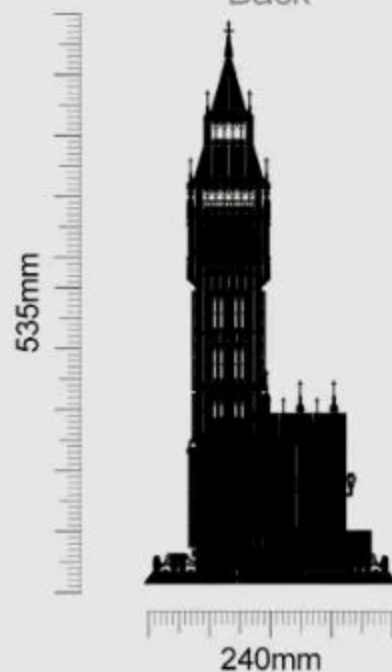
Adopting 13 main colors, Beige, Dark Gray and Dark Green as the main color, the more reasonable and bold color matching on the original building, making the product more atmospheric and the whole design is more reasonable.

Big Ben

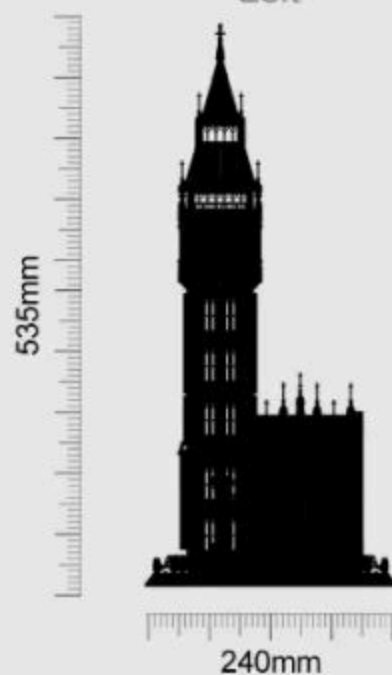
英国伦敦大本钟



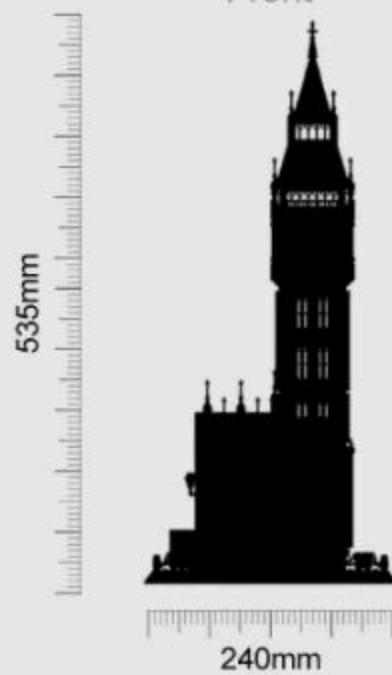
Back



Left



Front



Product Size:240X240x535mm

Creative Ability



Family Interaction



Observation Ability



Thinking Ability

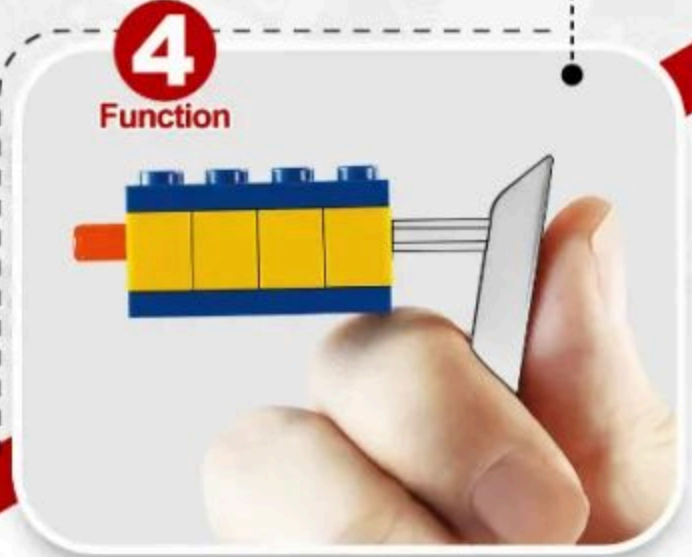
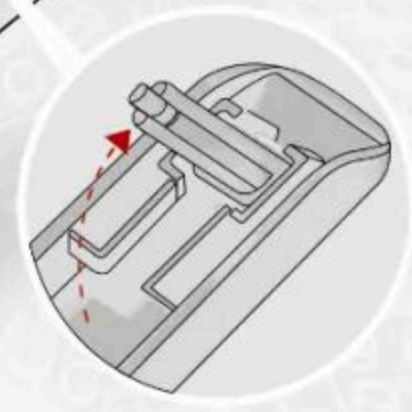
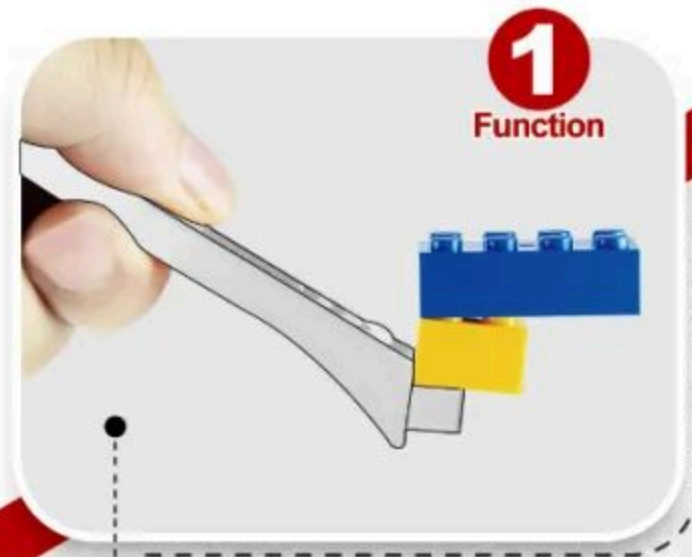


Practical Ability



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。



INSTALLATION
TIPS

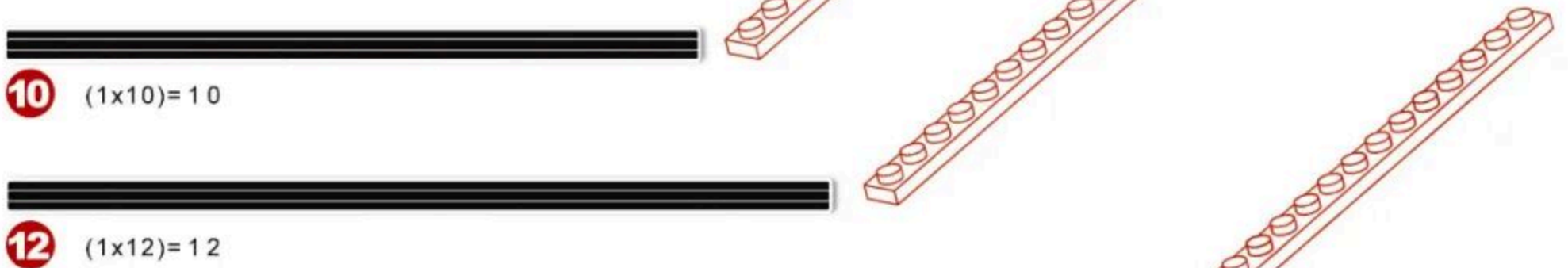
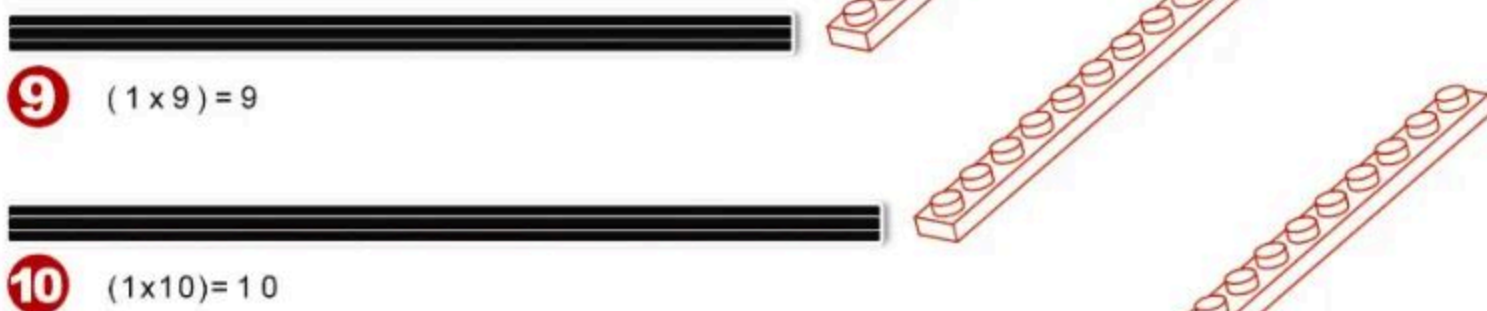
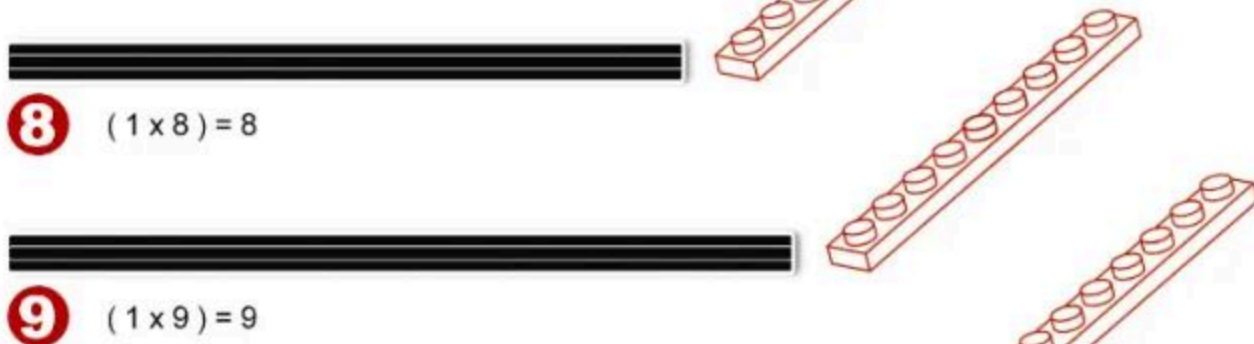
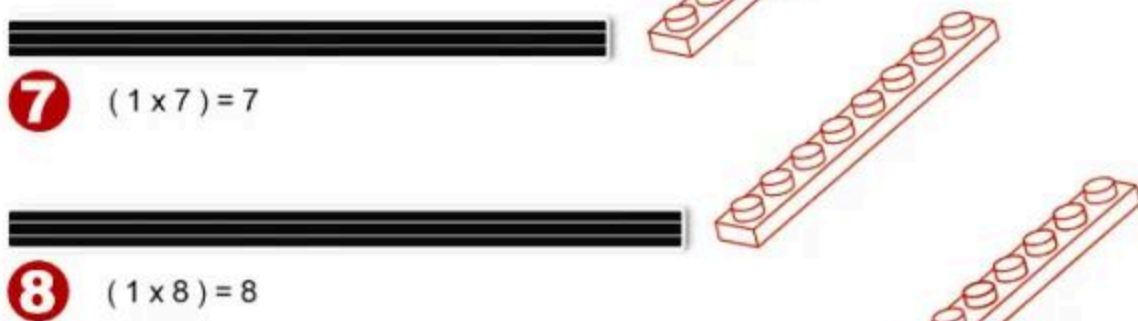
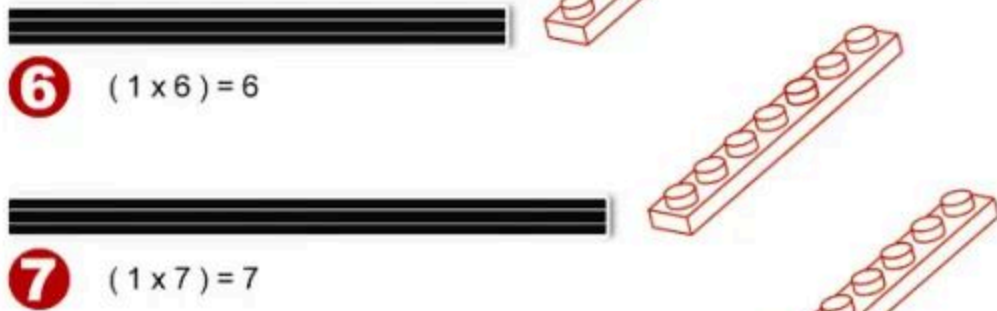
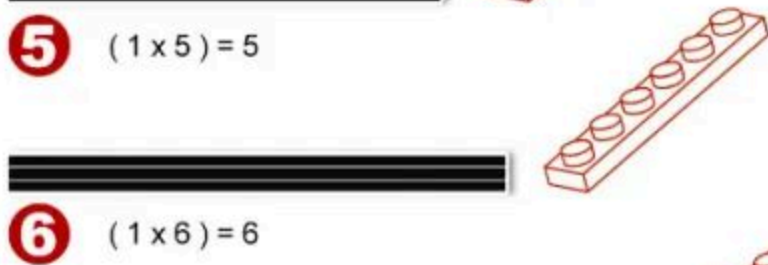
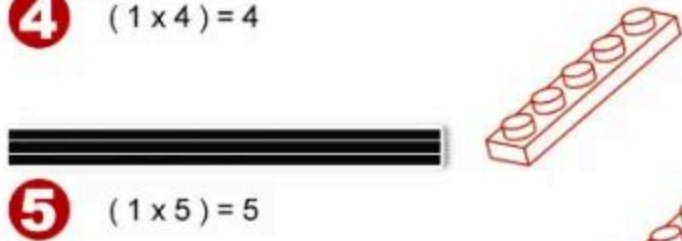
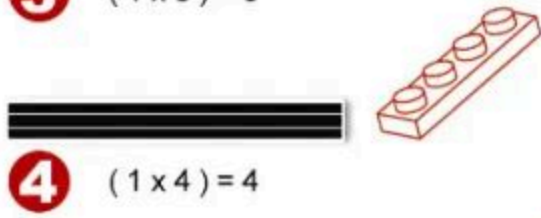
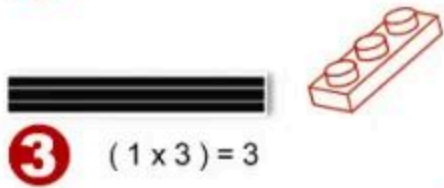
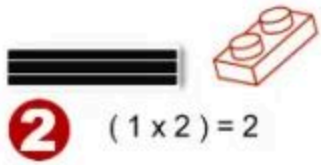
1:1 Physical Reference Table

十字棒配件1:1尺寸参照表



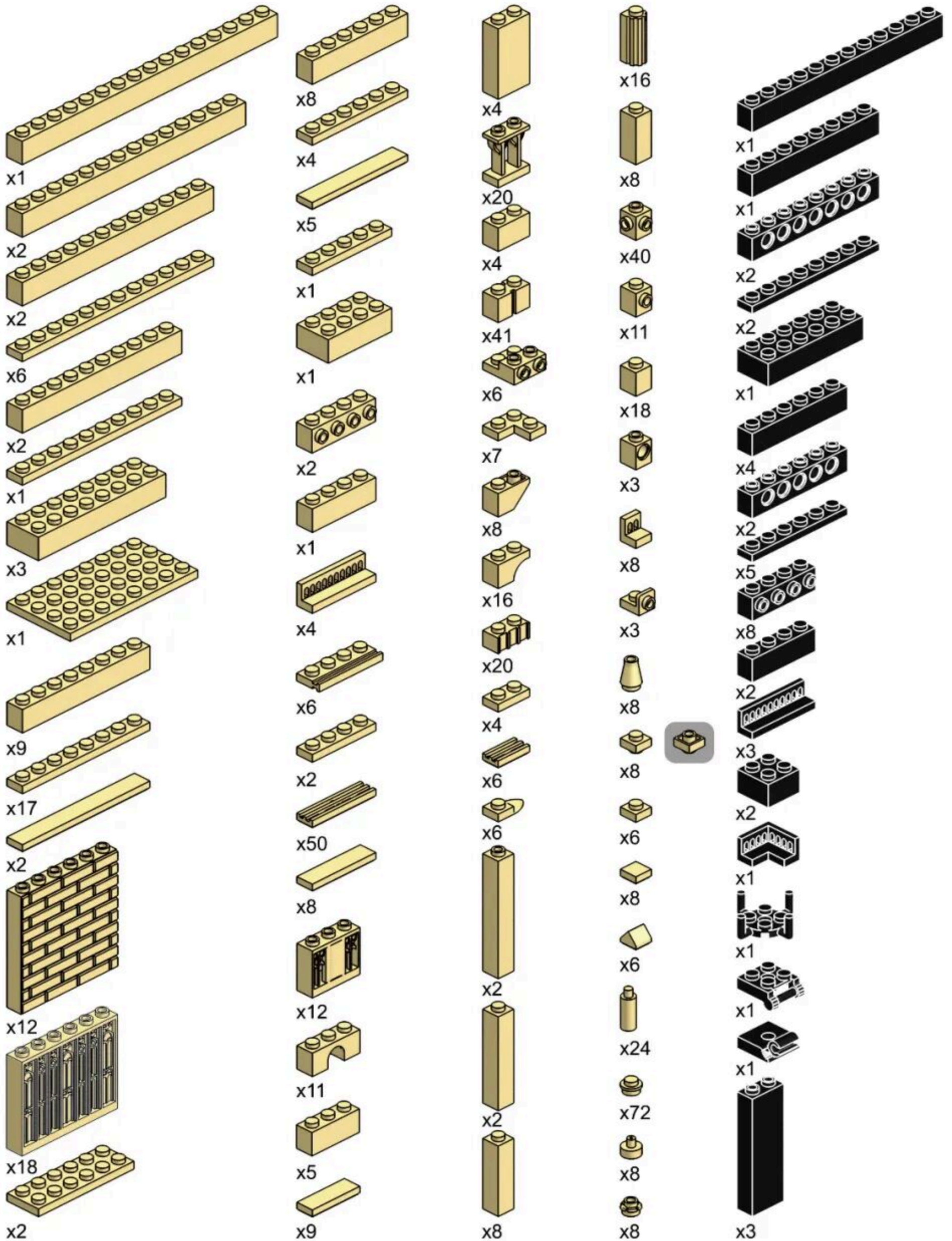
Instructions For Use

让安装更简单



PARTS LIST

配件清单



产品有增补件请以实物为准

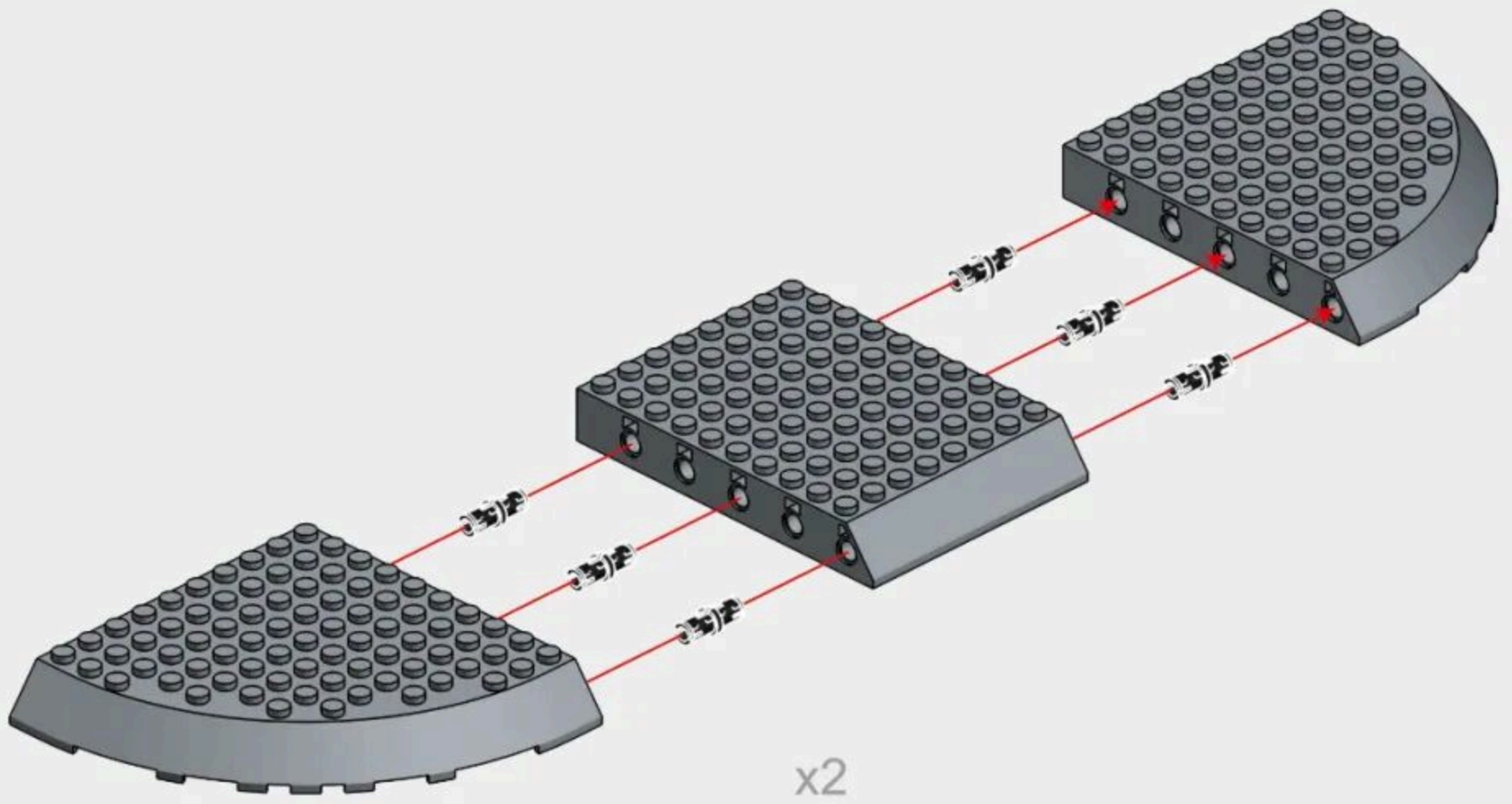
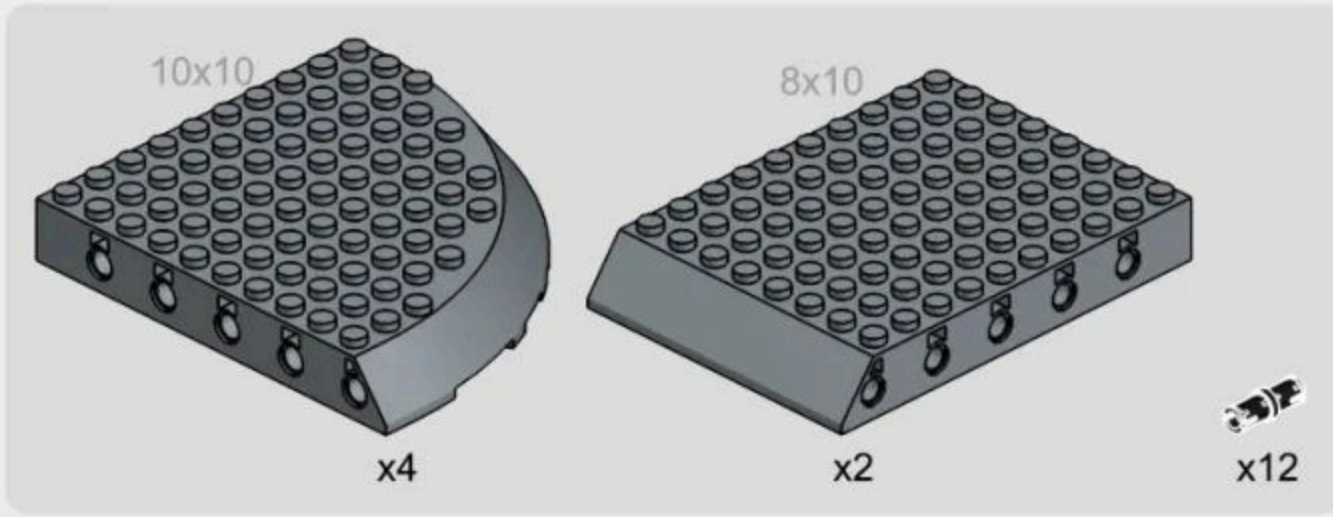
If product has additional parts, please in kind prevail.



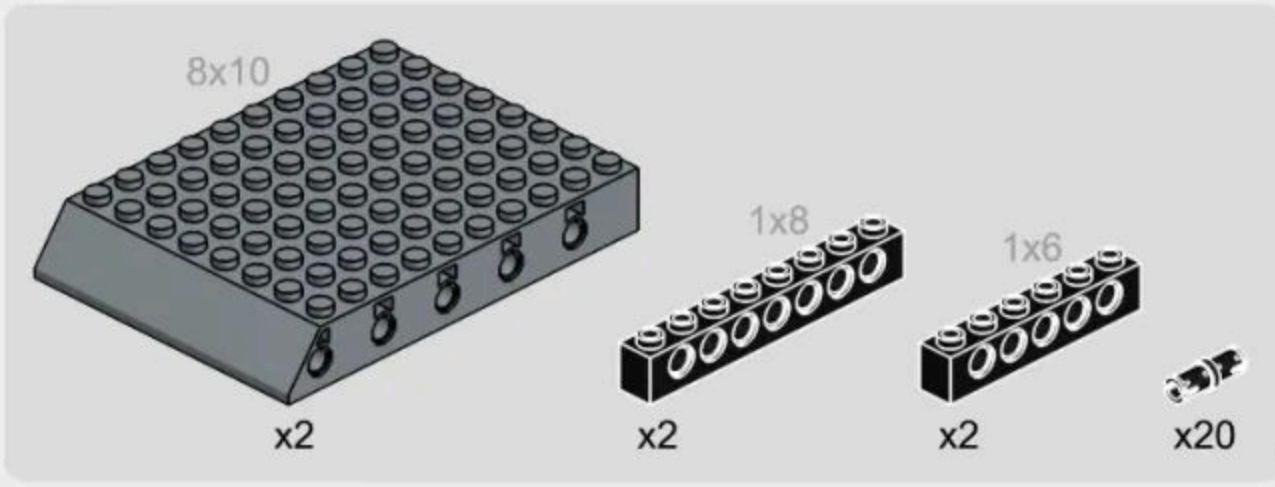
272PCS



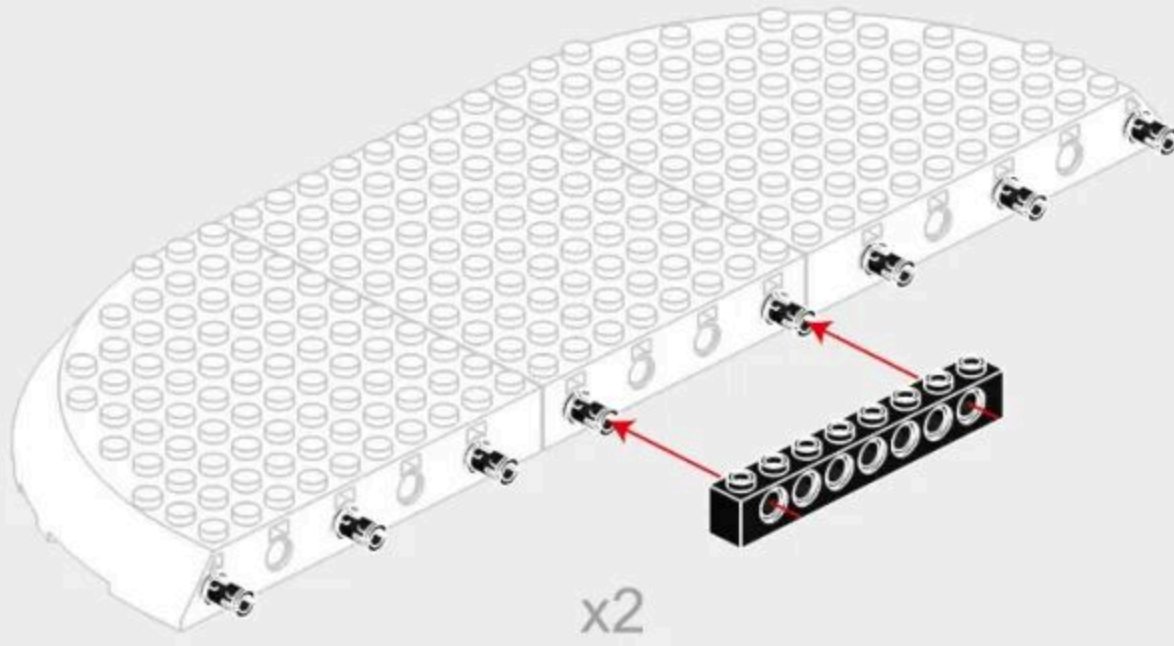
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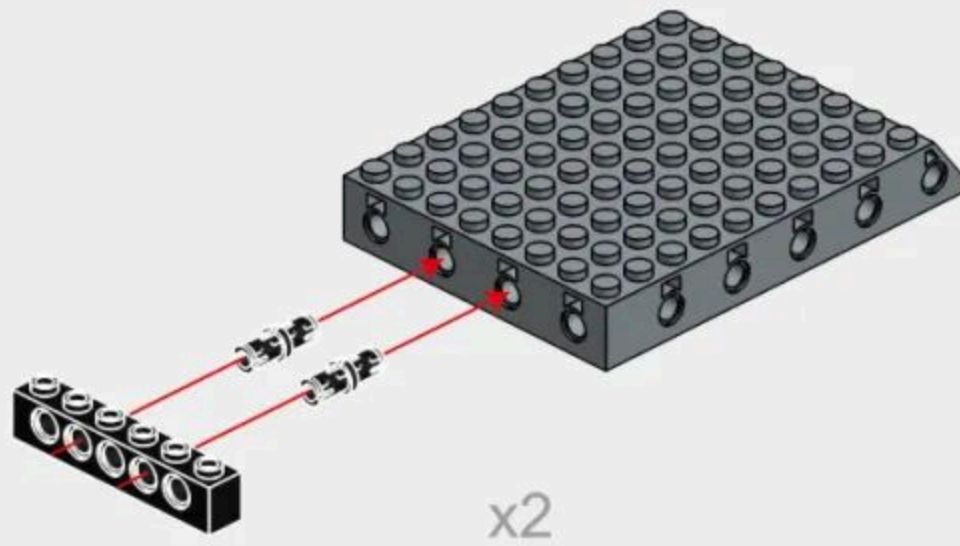
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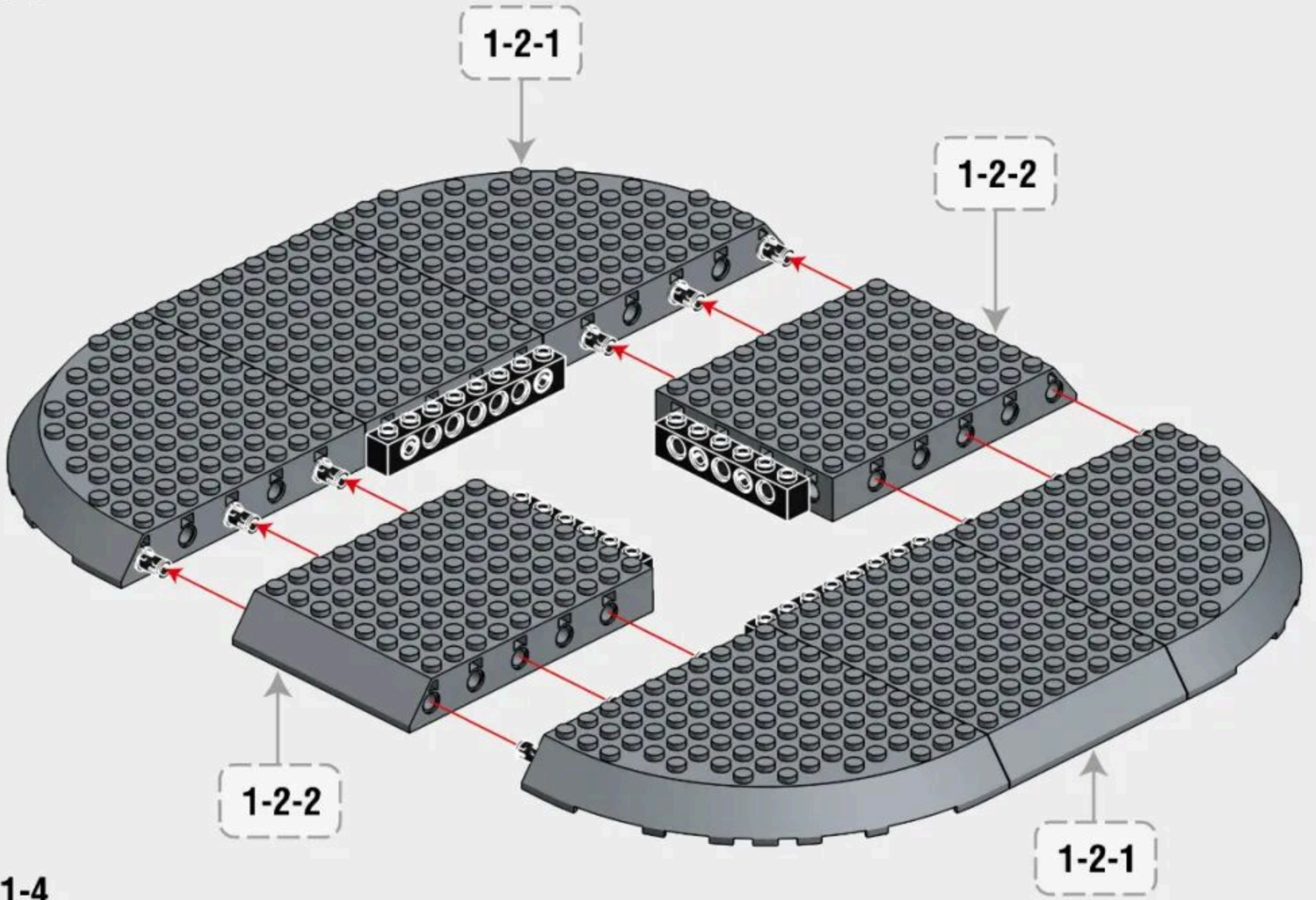
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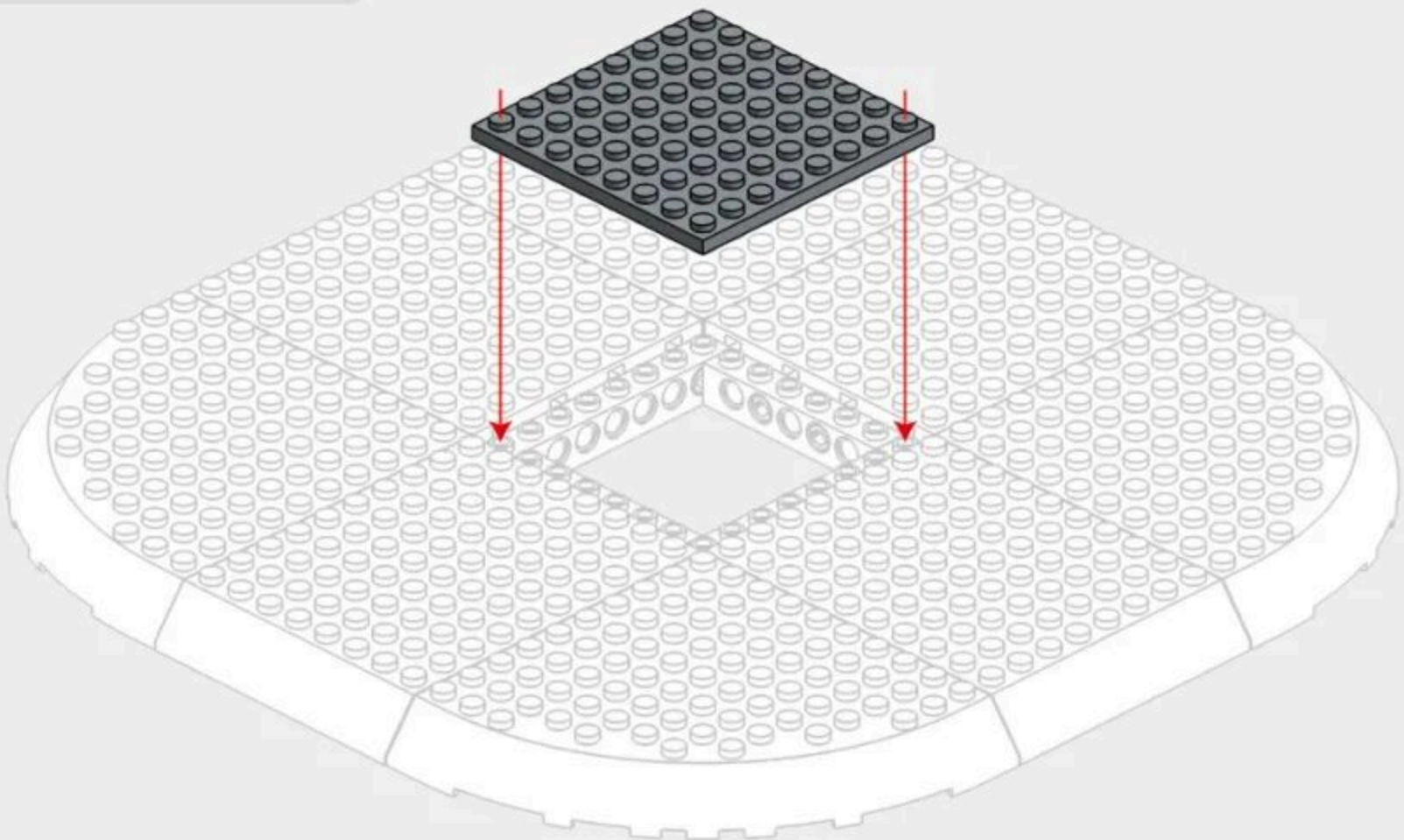
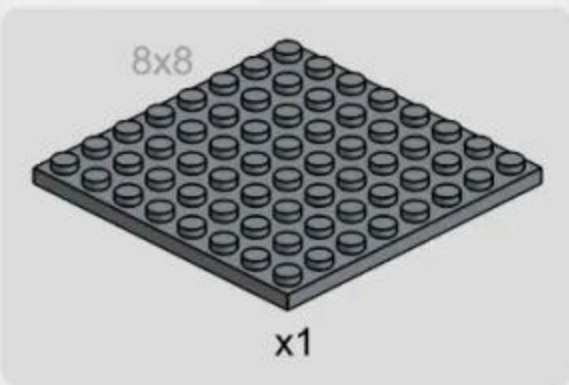
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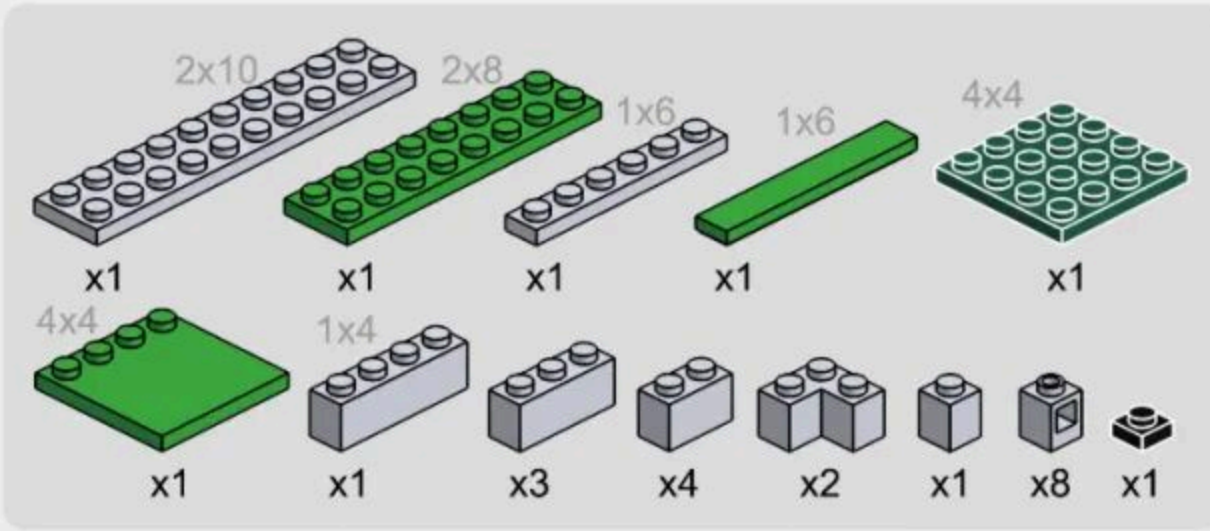
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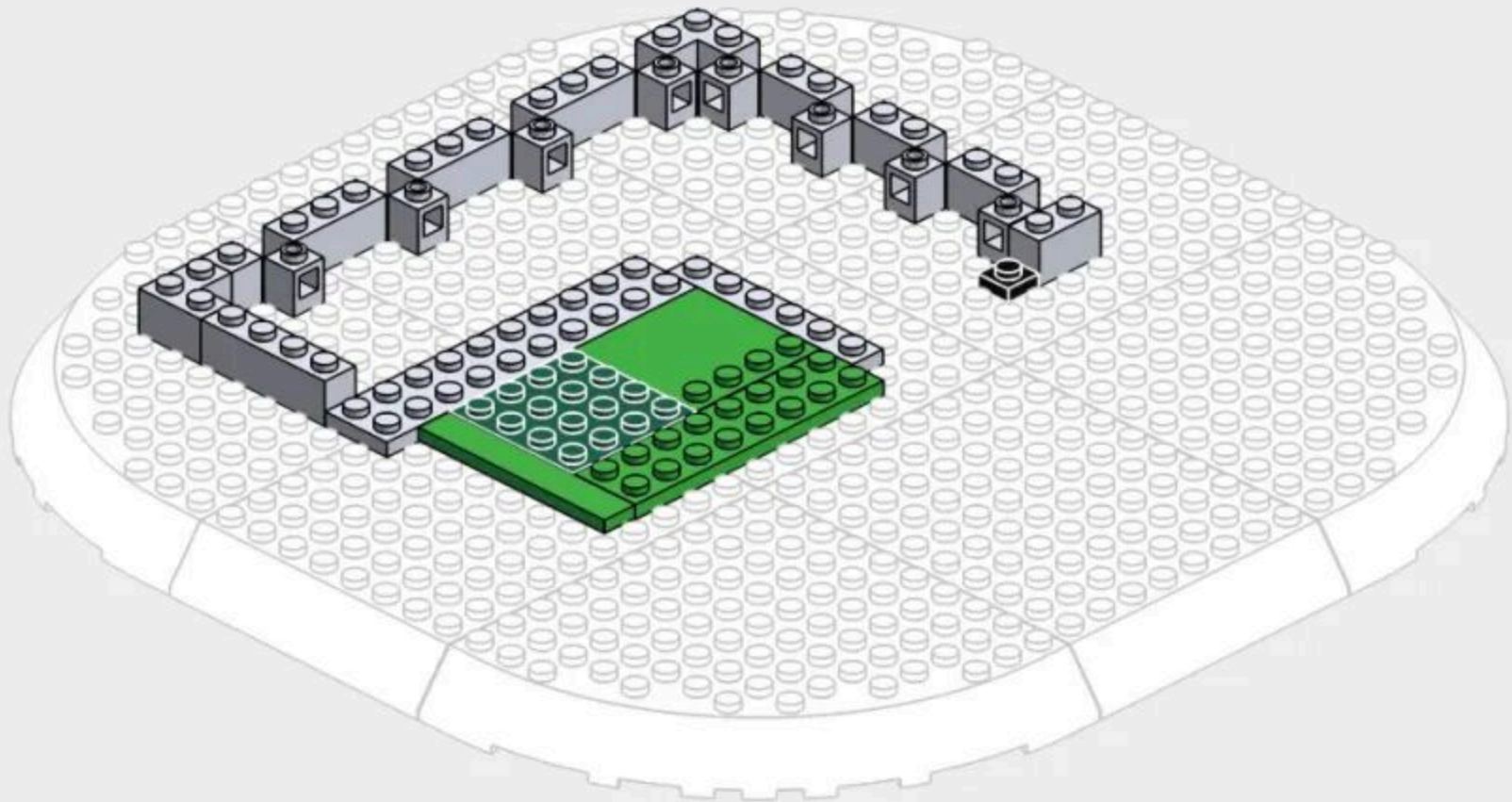
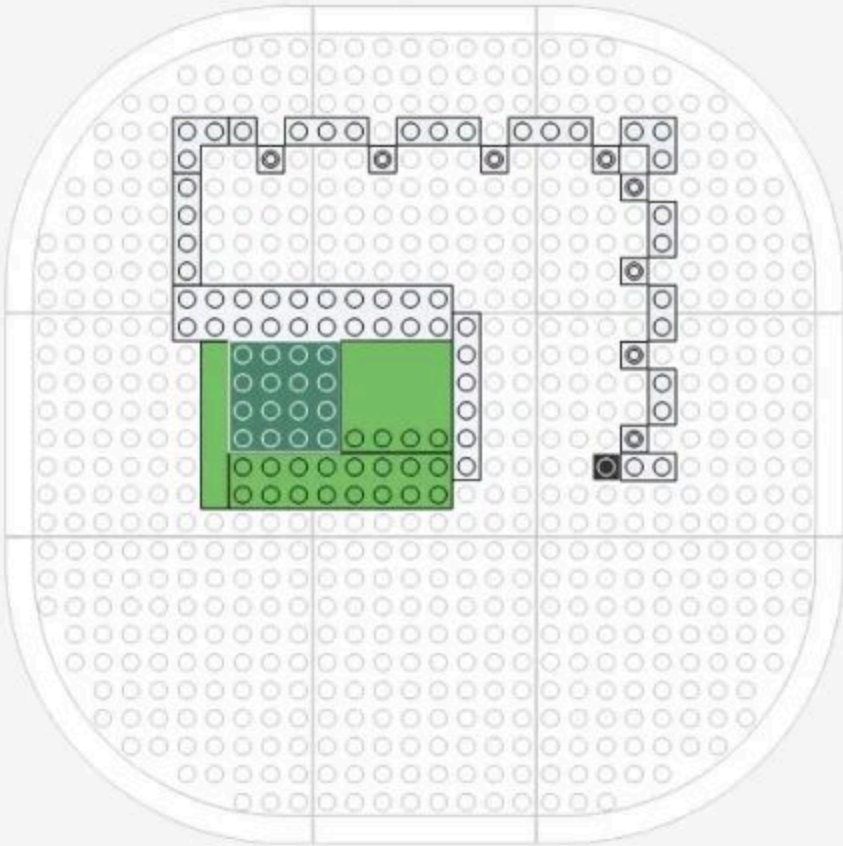
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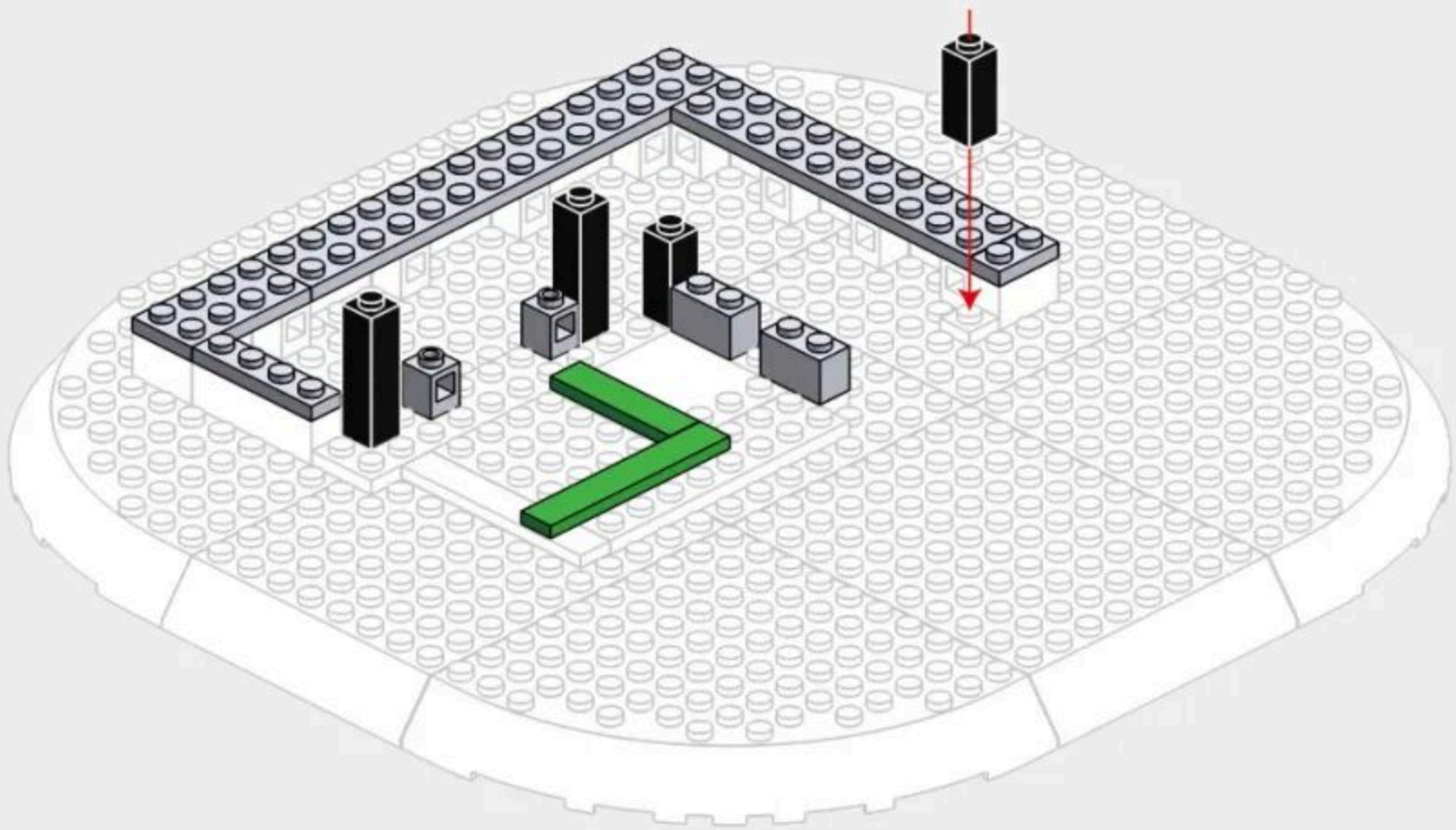
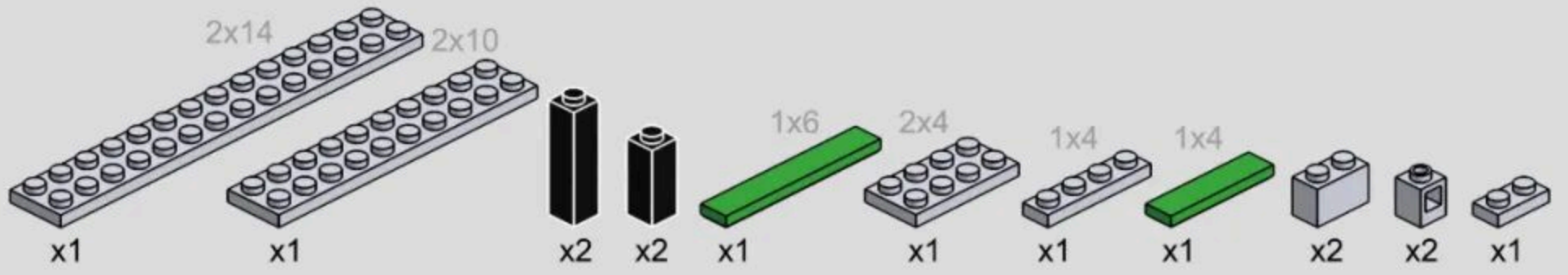
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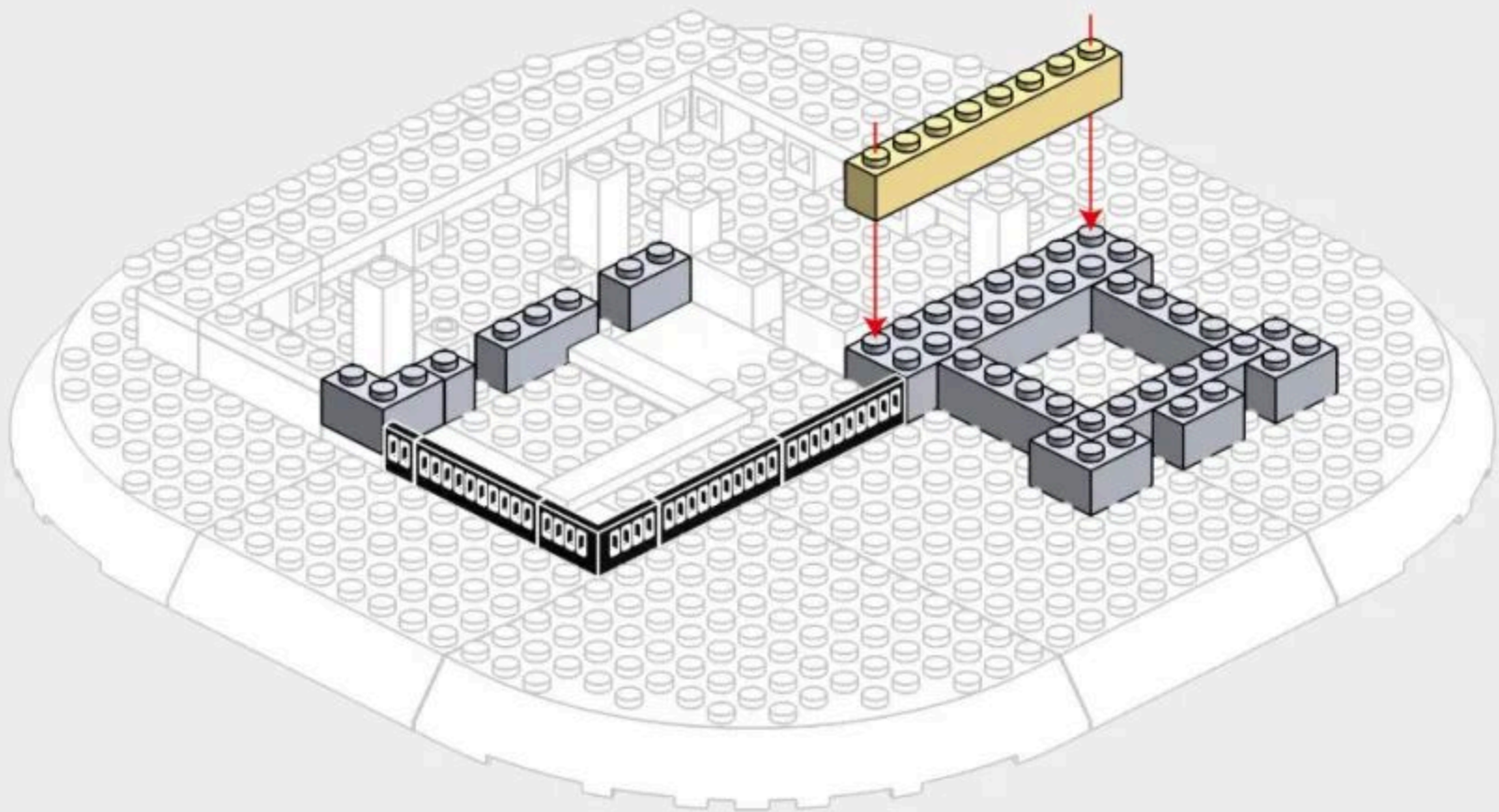
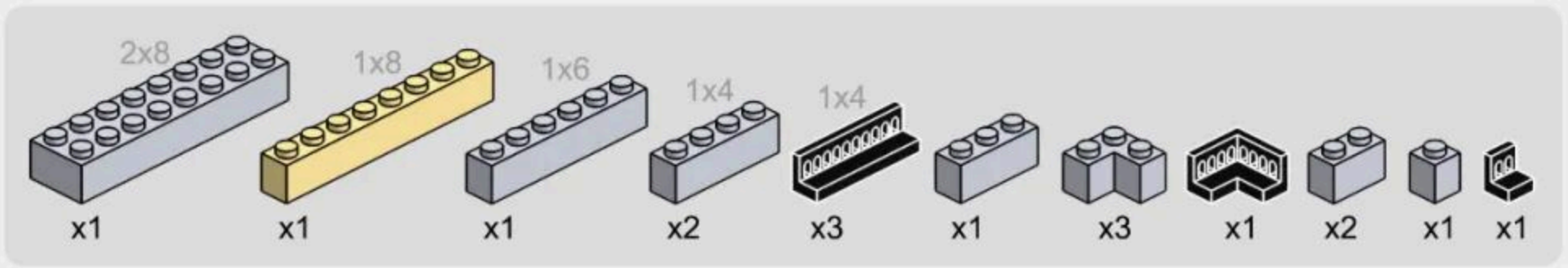
Vertical View of Installation Drawing
安装图顶面



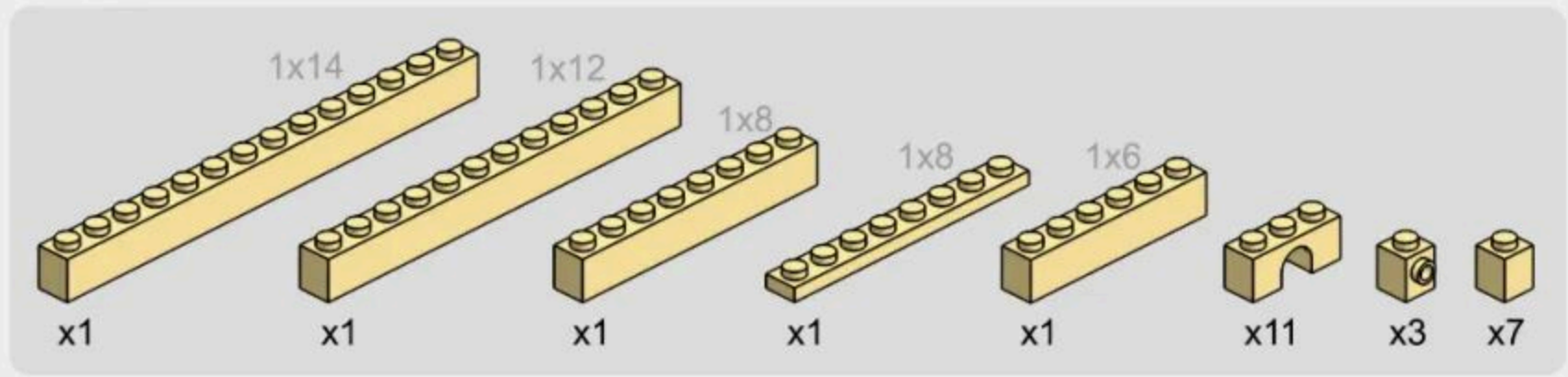
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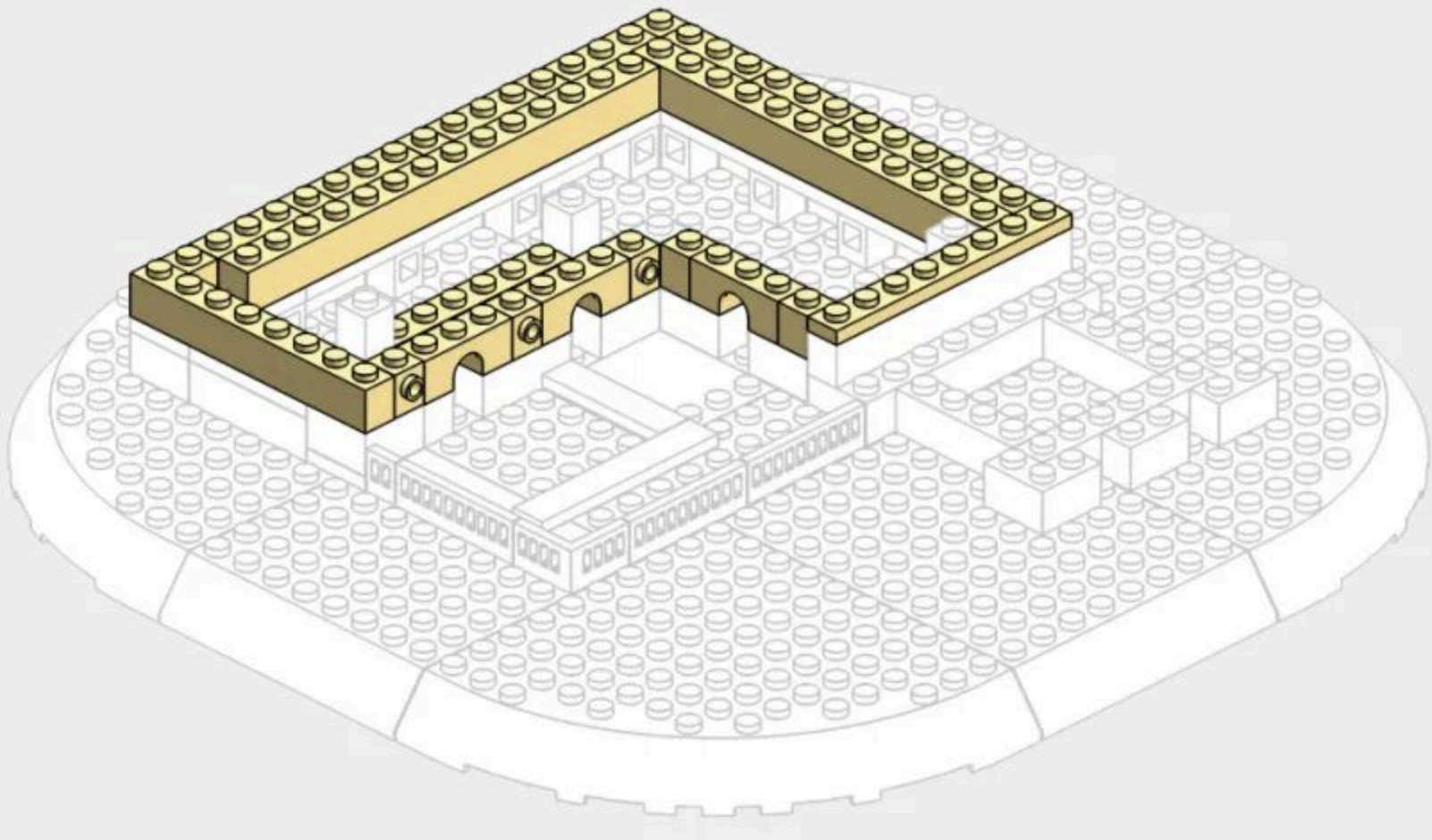
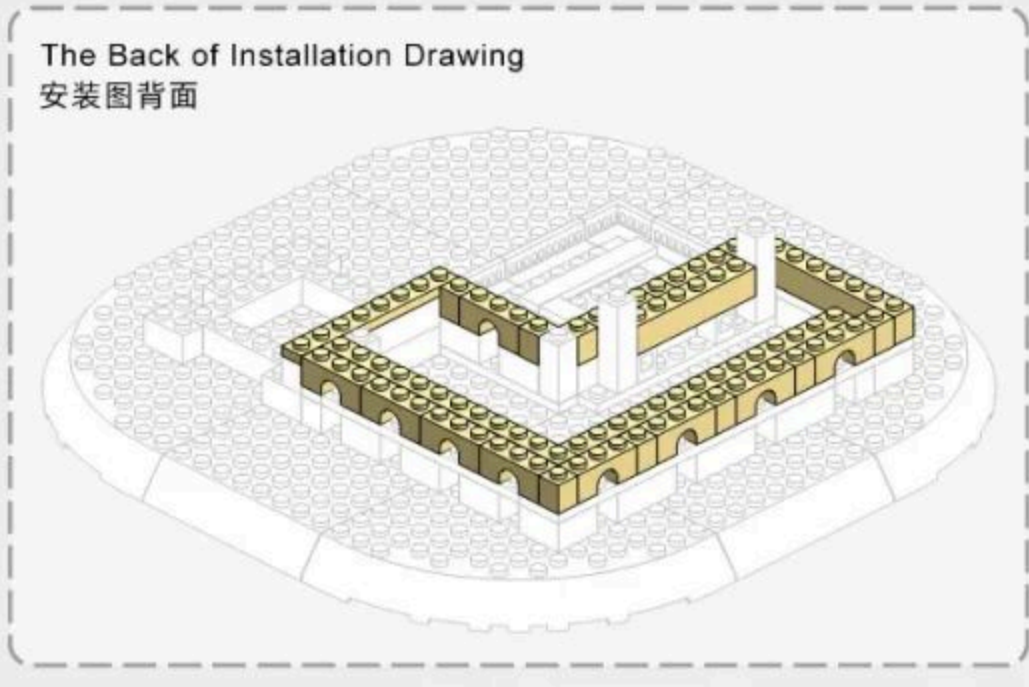
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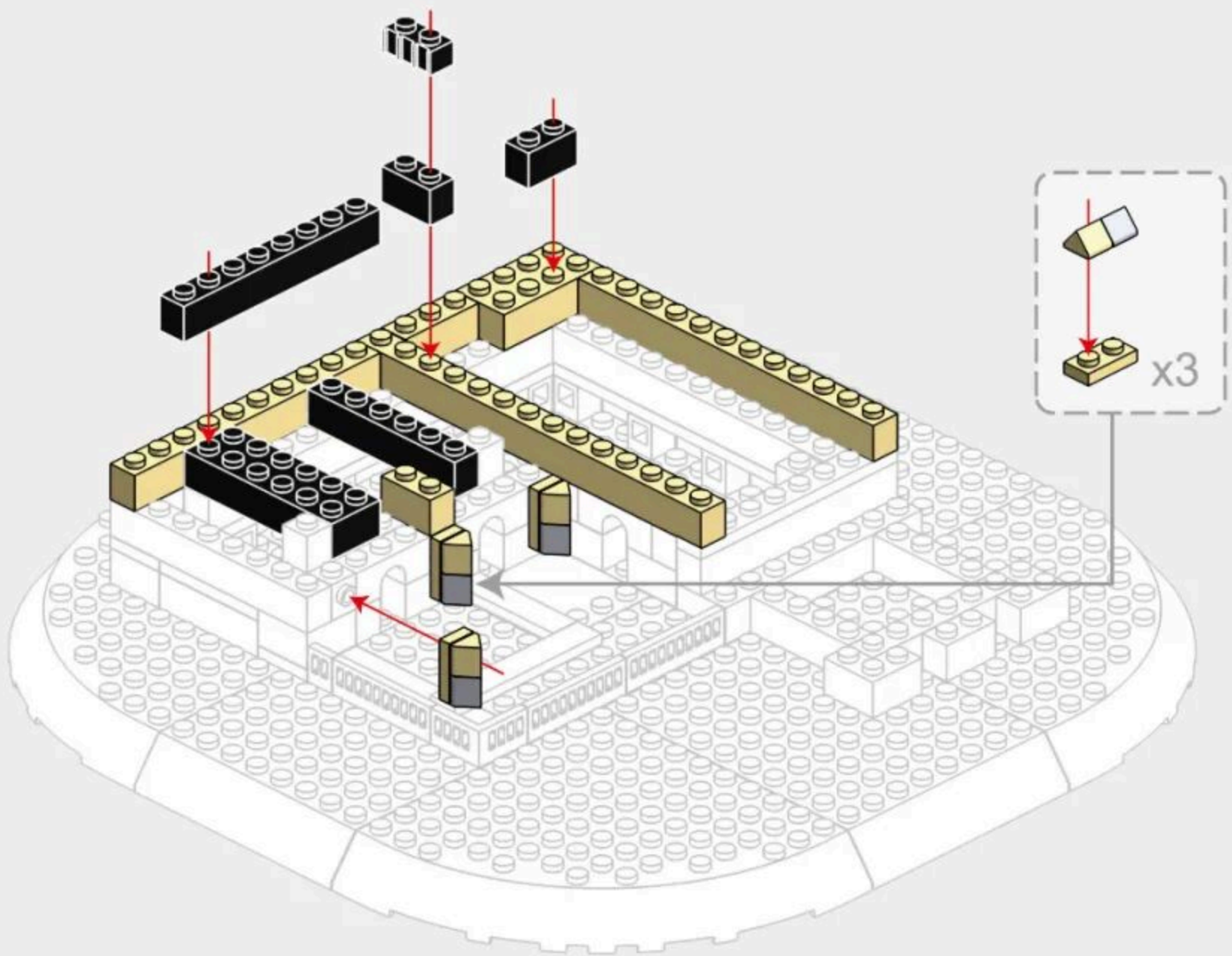
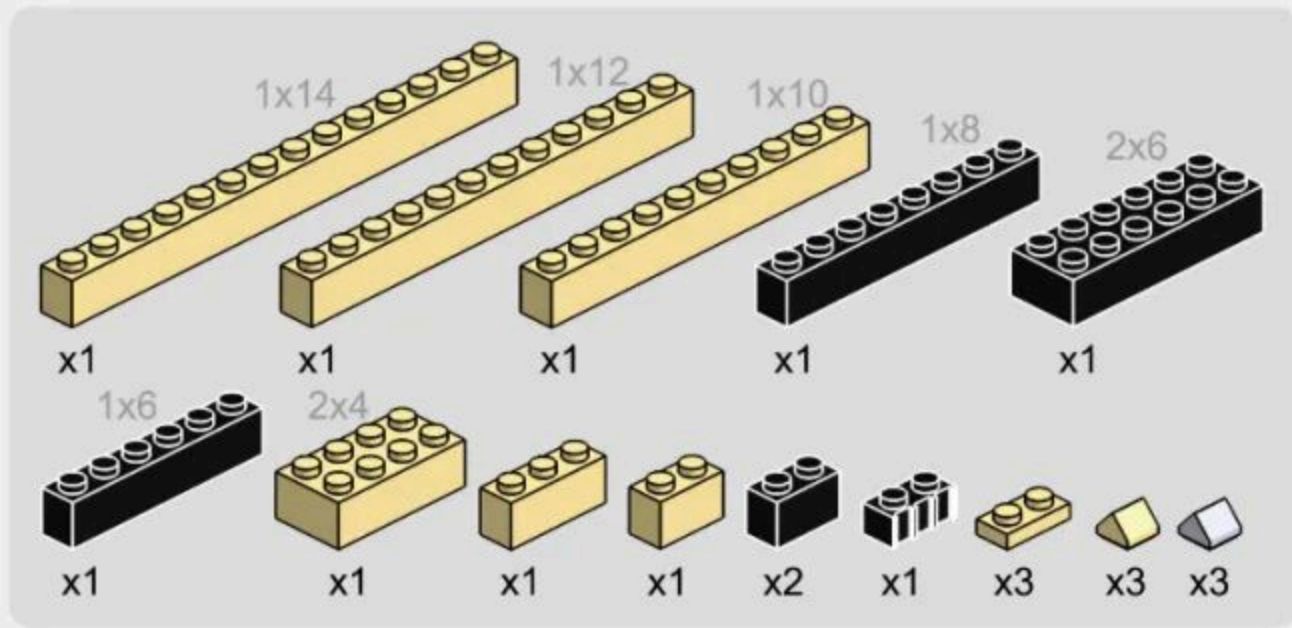
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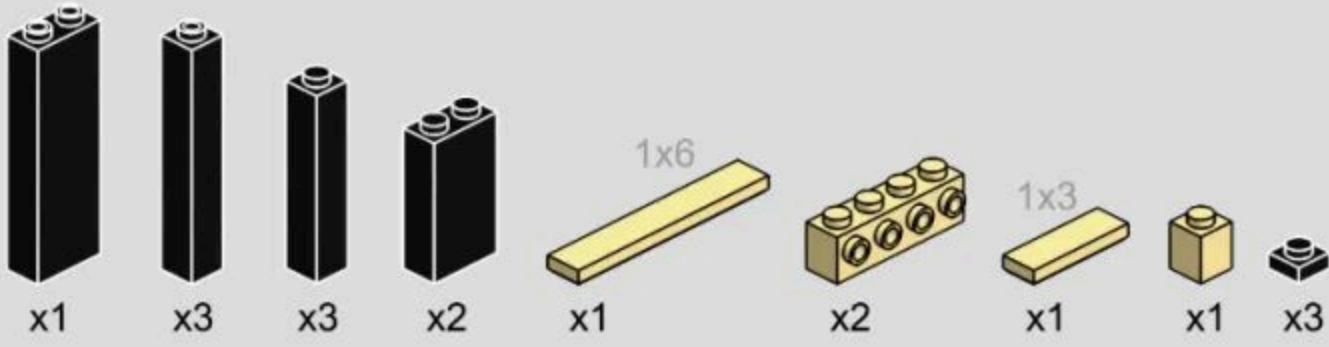
The Back of Installation Drawing
安装图背面



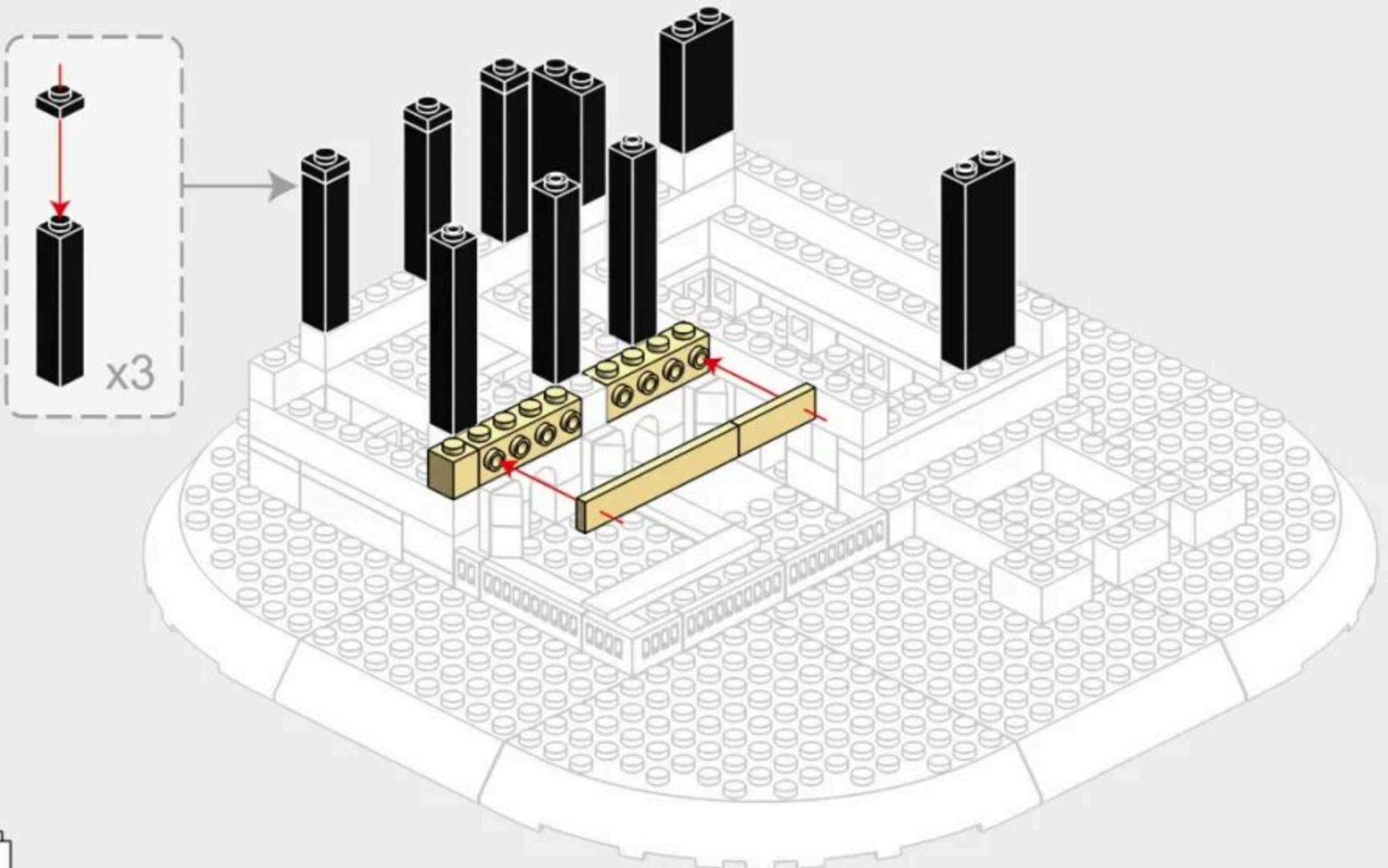
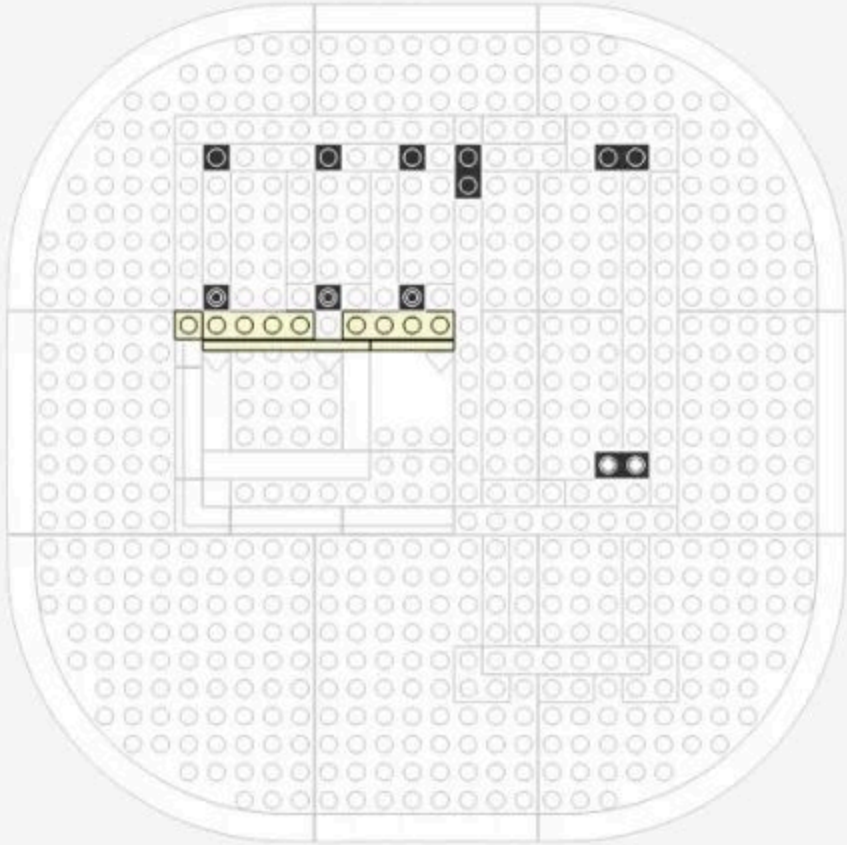
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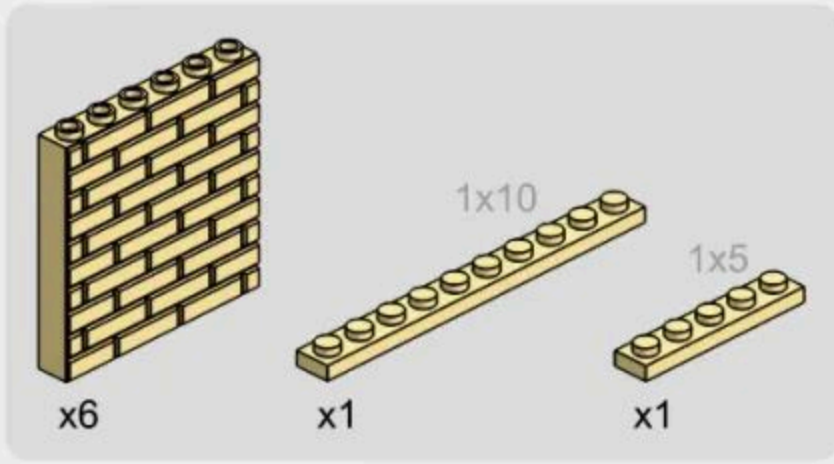
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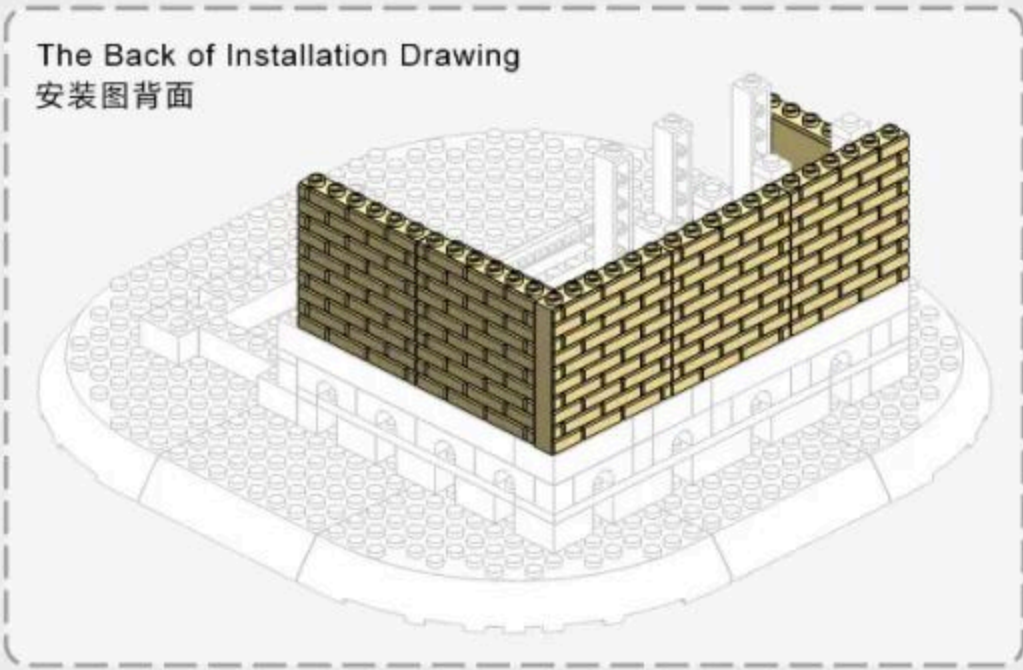
Vertical View of Installation Drawing
安装图顶面



1-11



The Back of Installation Drawing
安装图背面



1-12



x2



x6



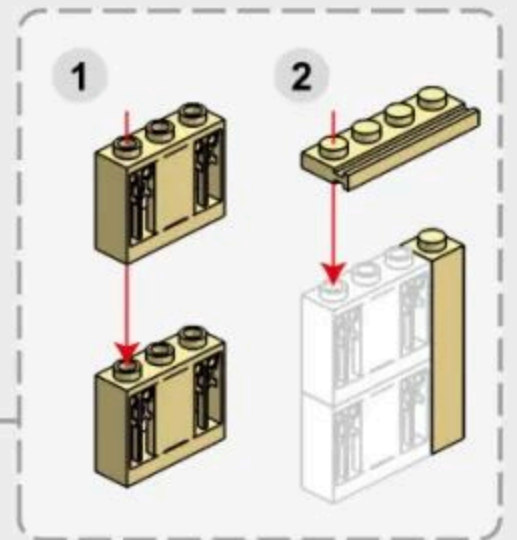
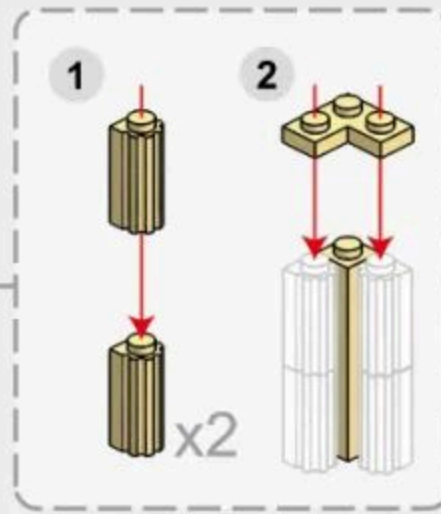
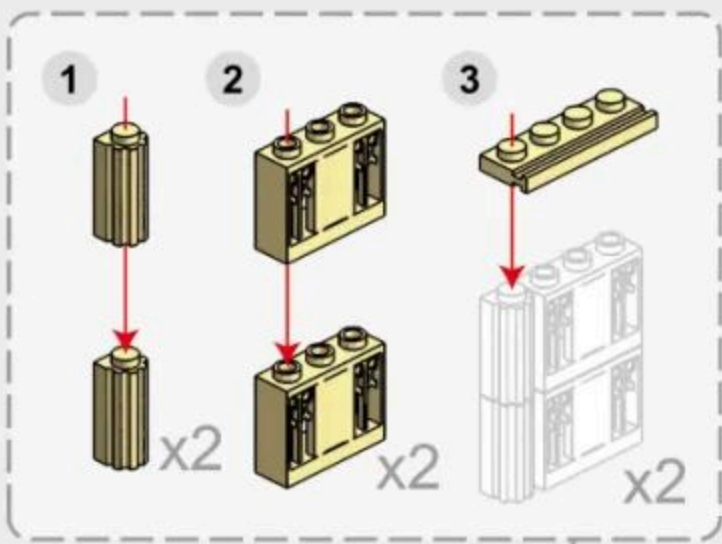
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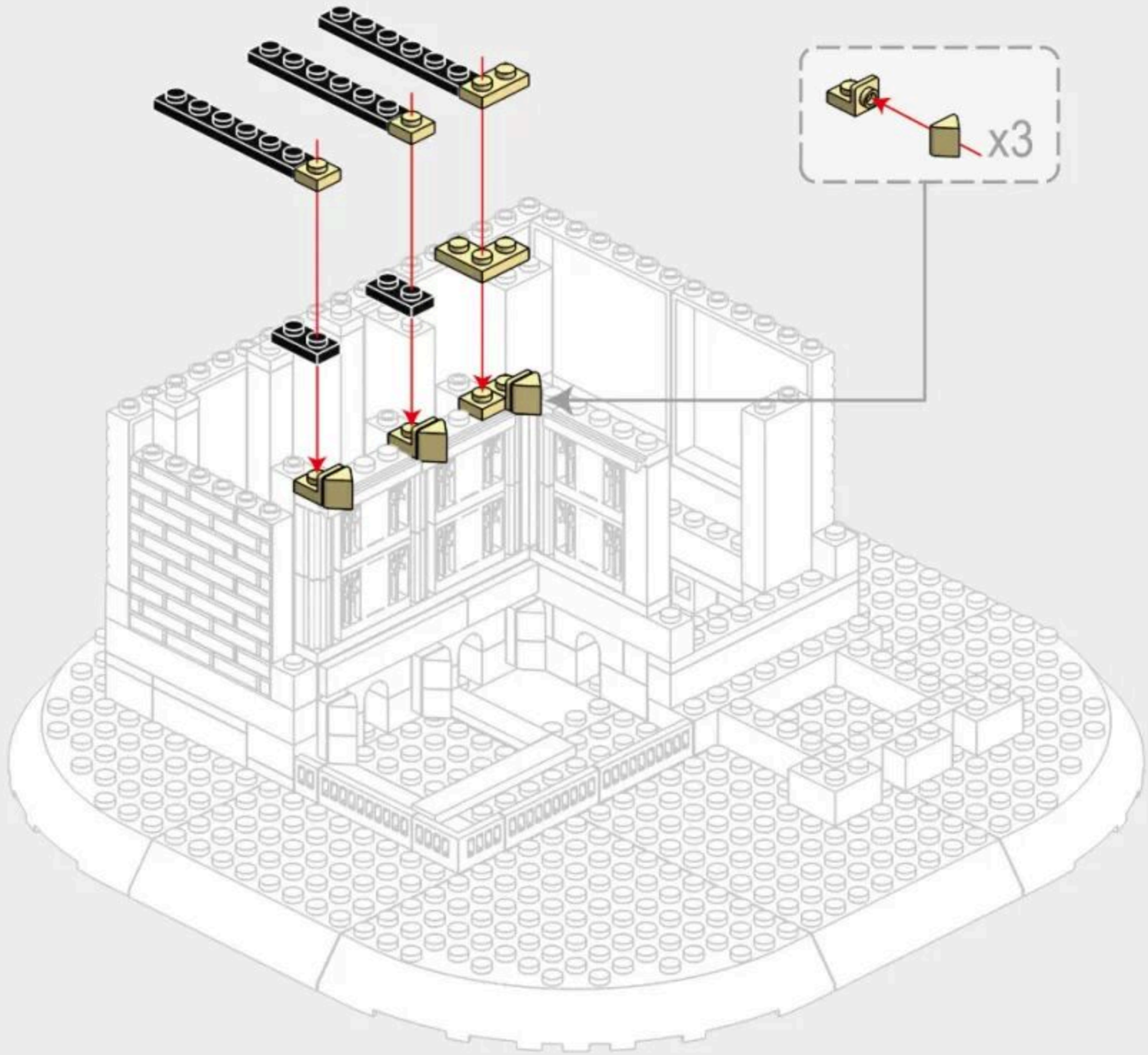
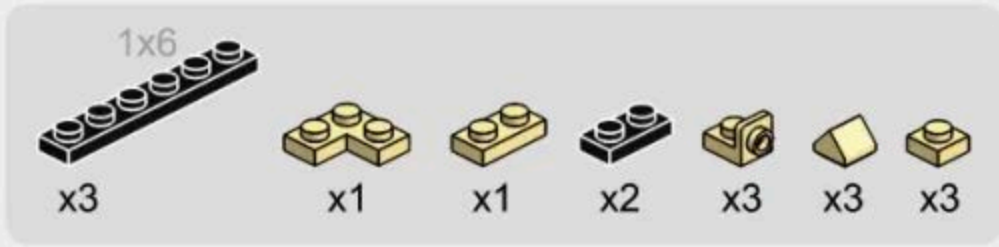
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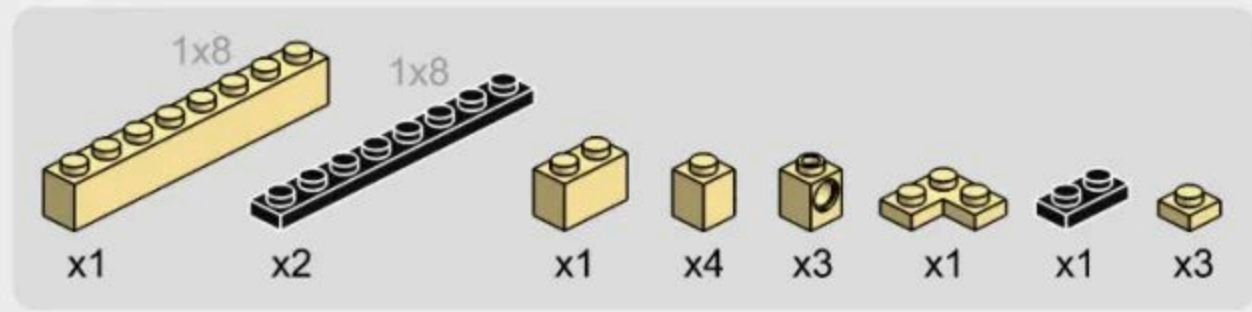
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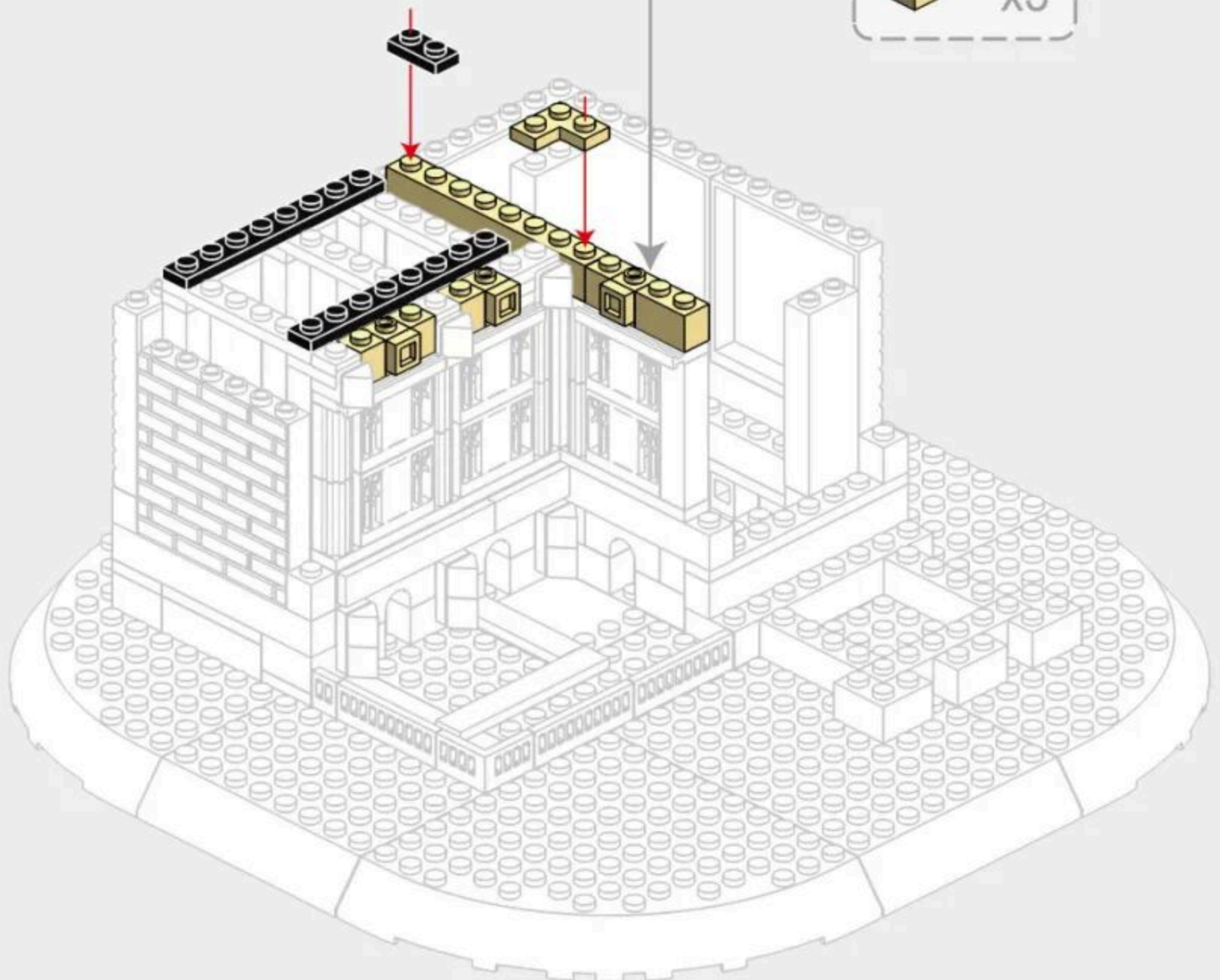
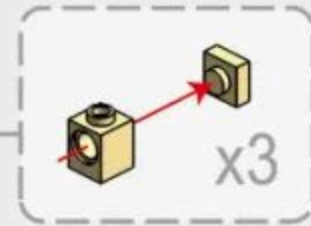
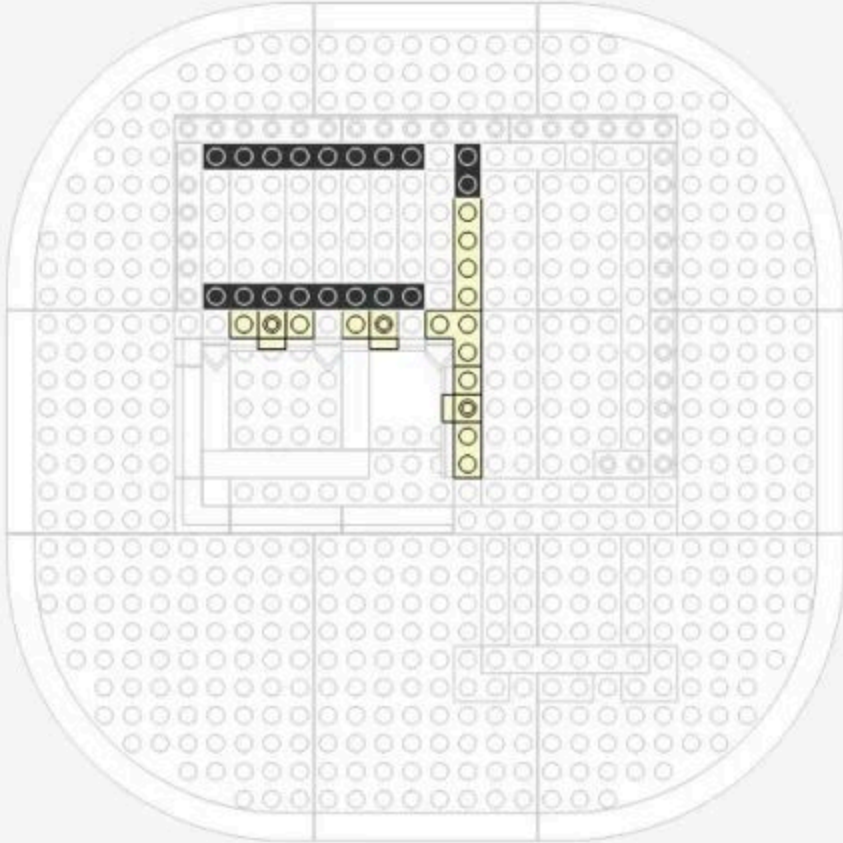
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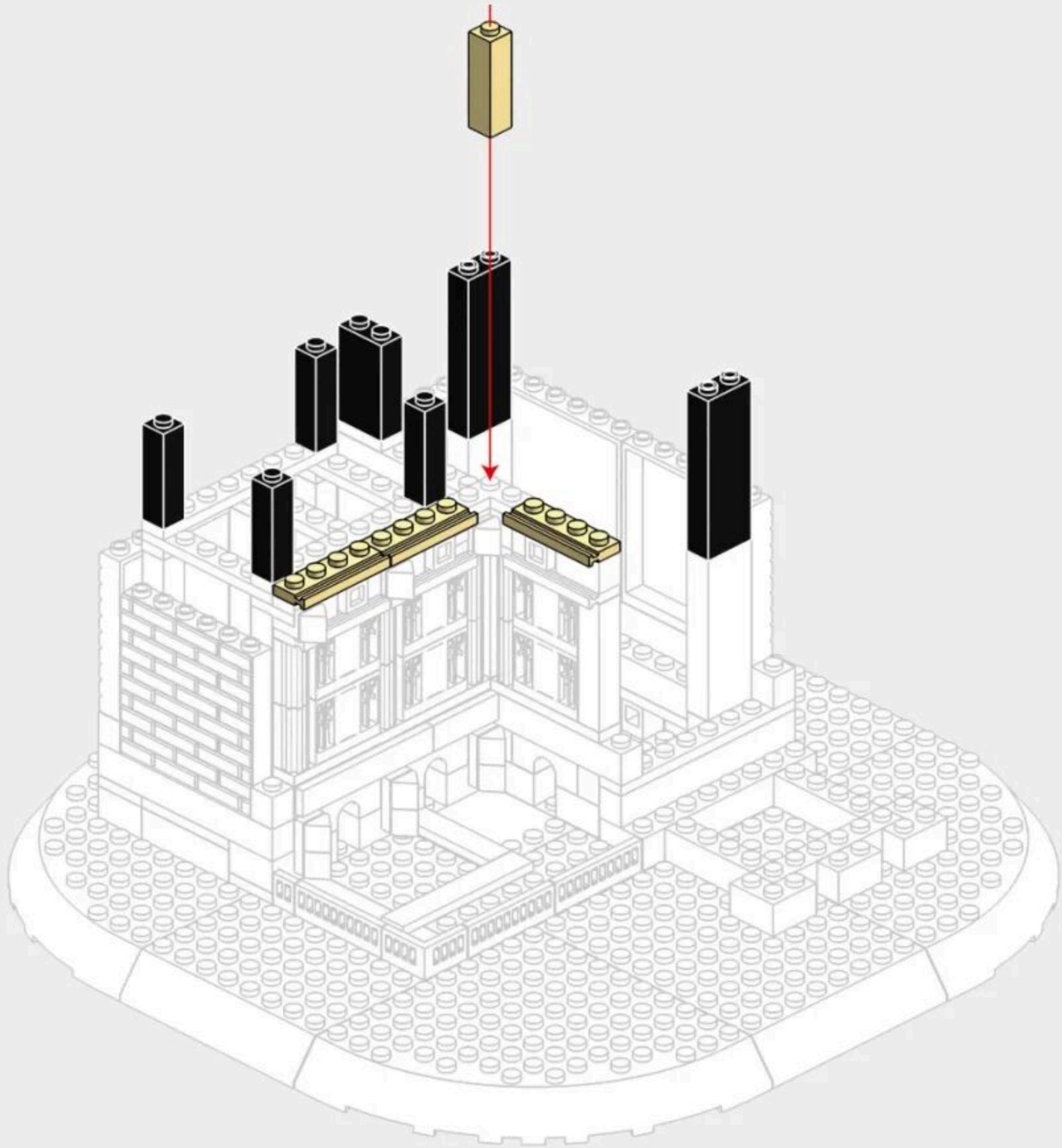
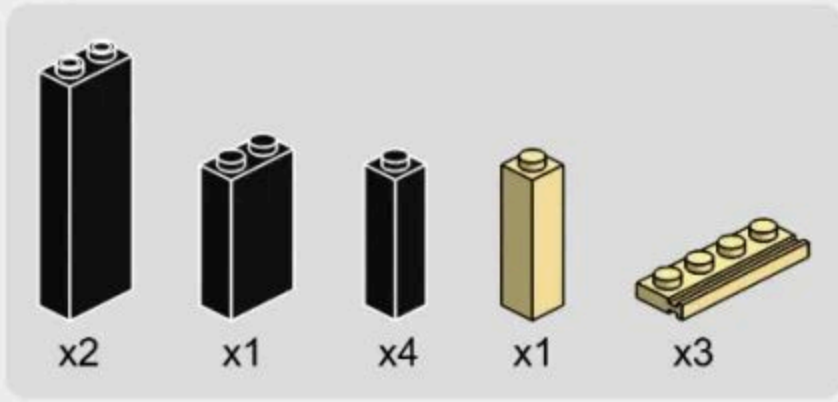
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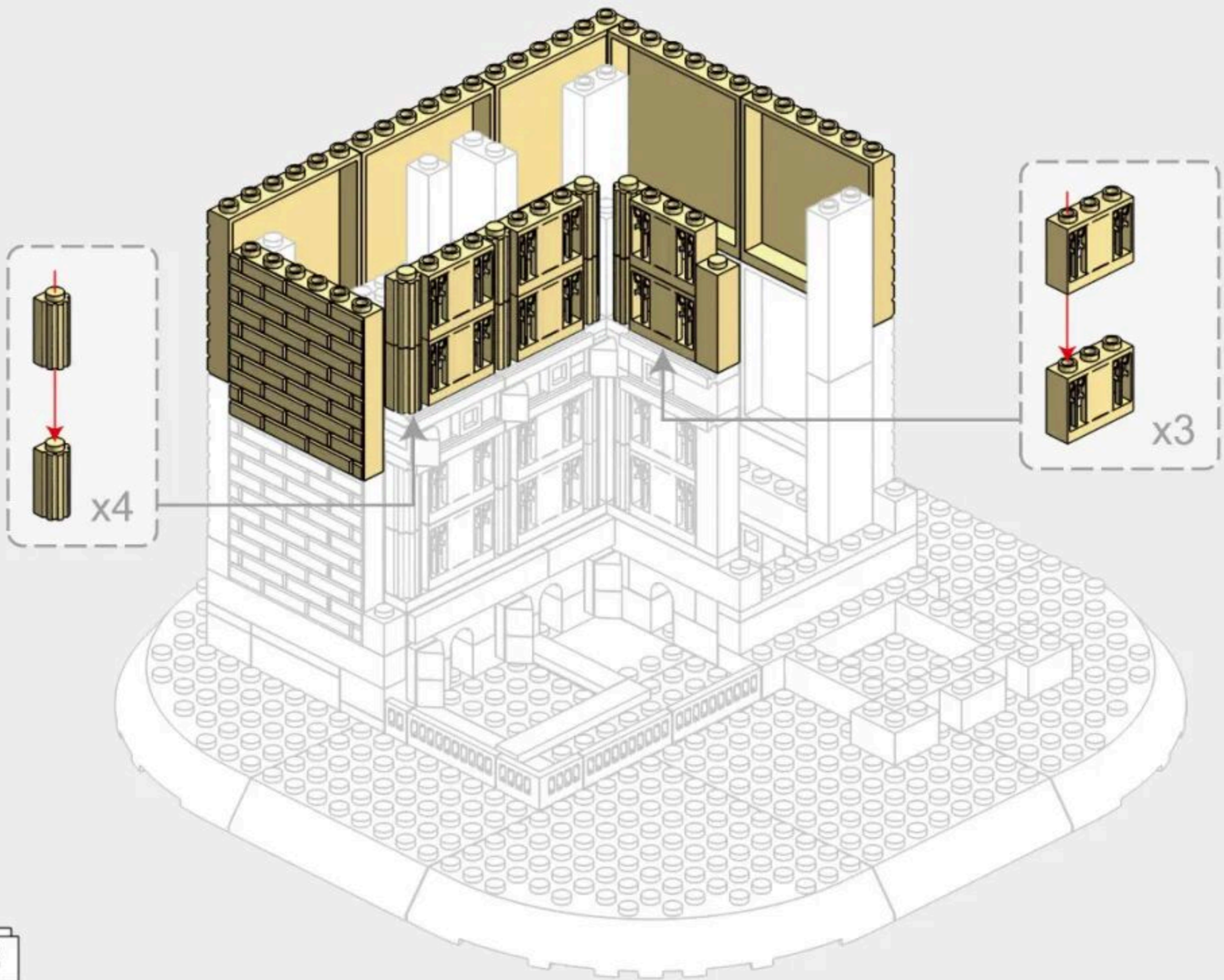
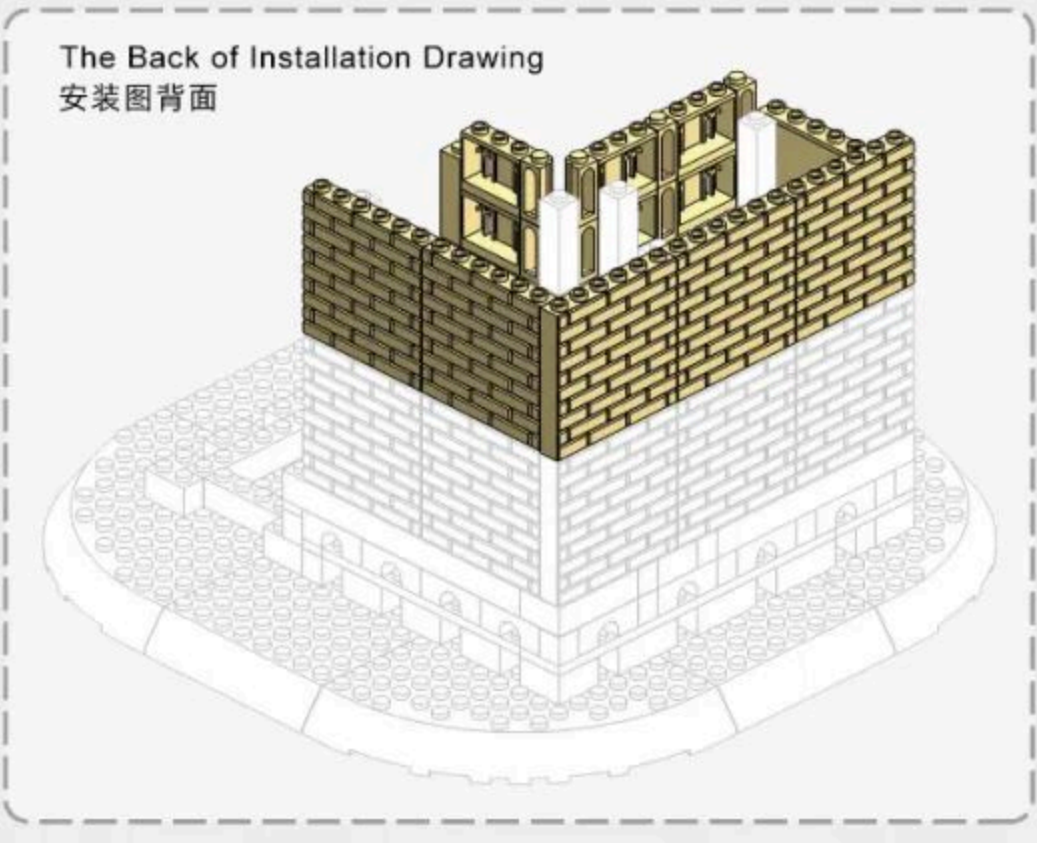
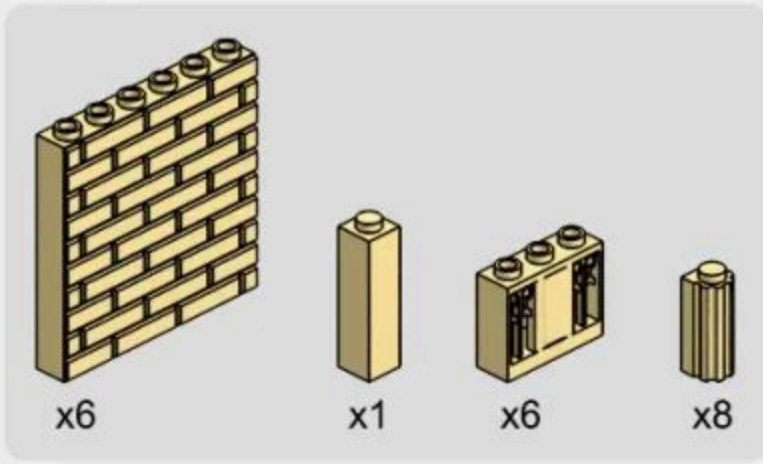
Vertical View of Installation Drawing
安装图顶面



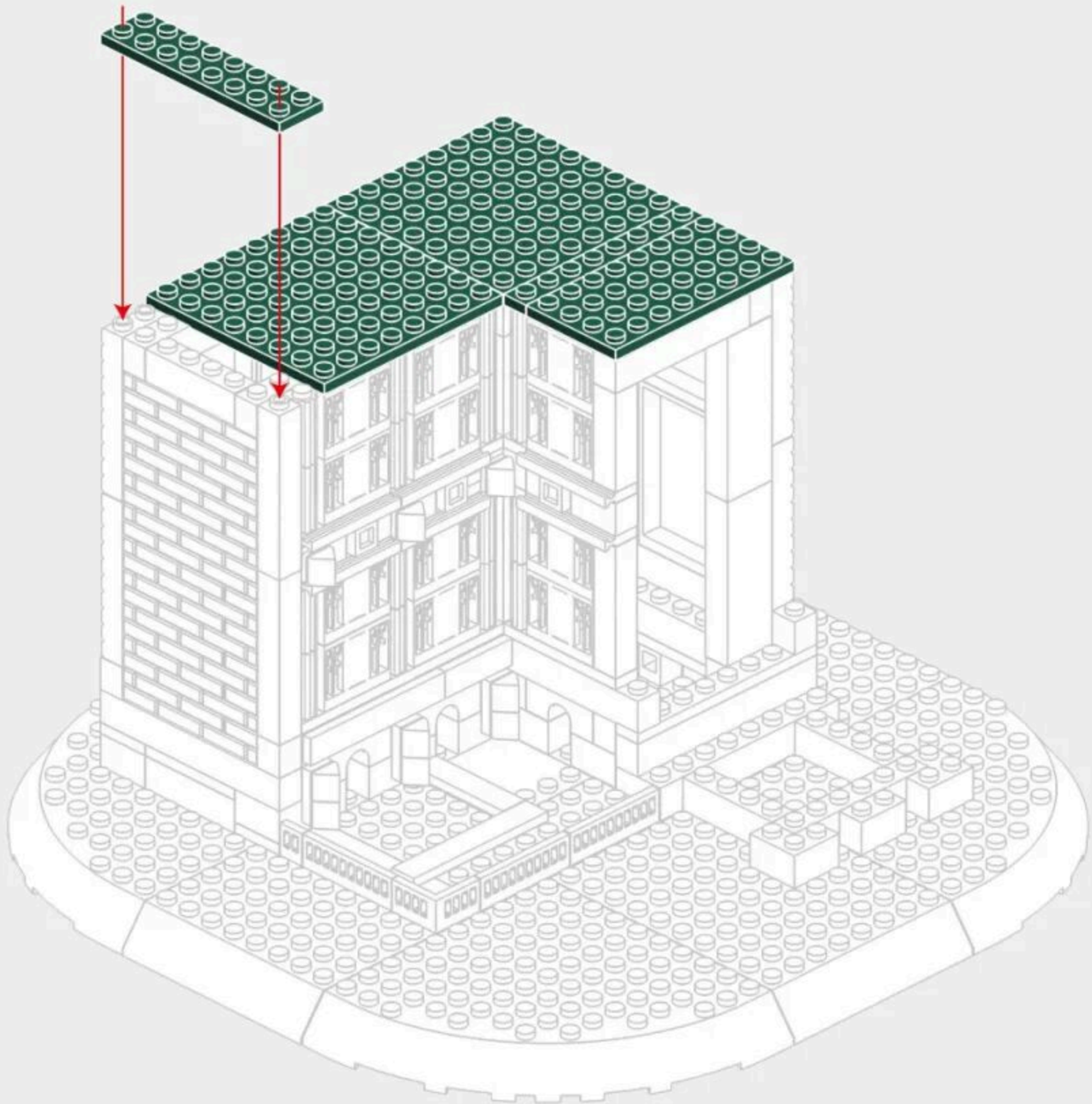
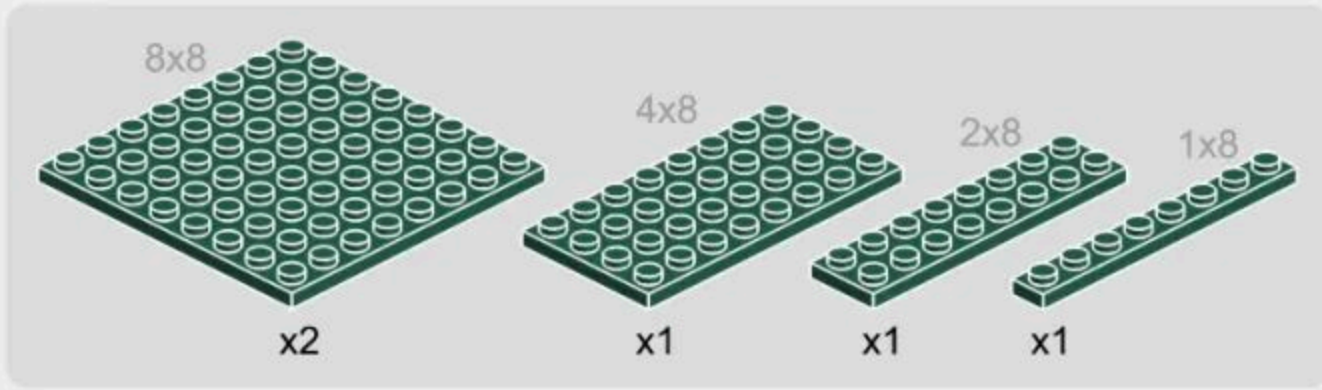
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1-16

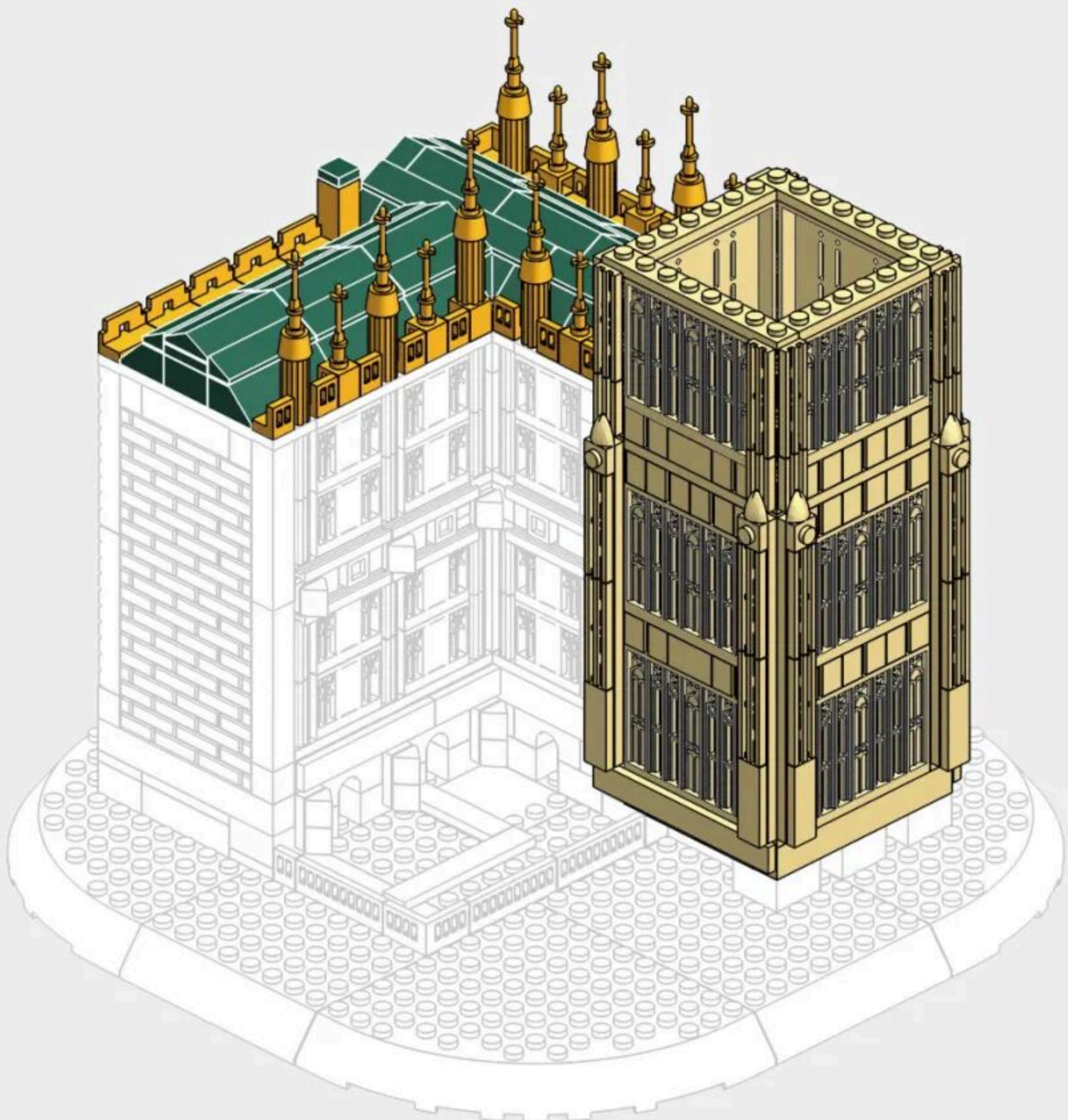


1-18

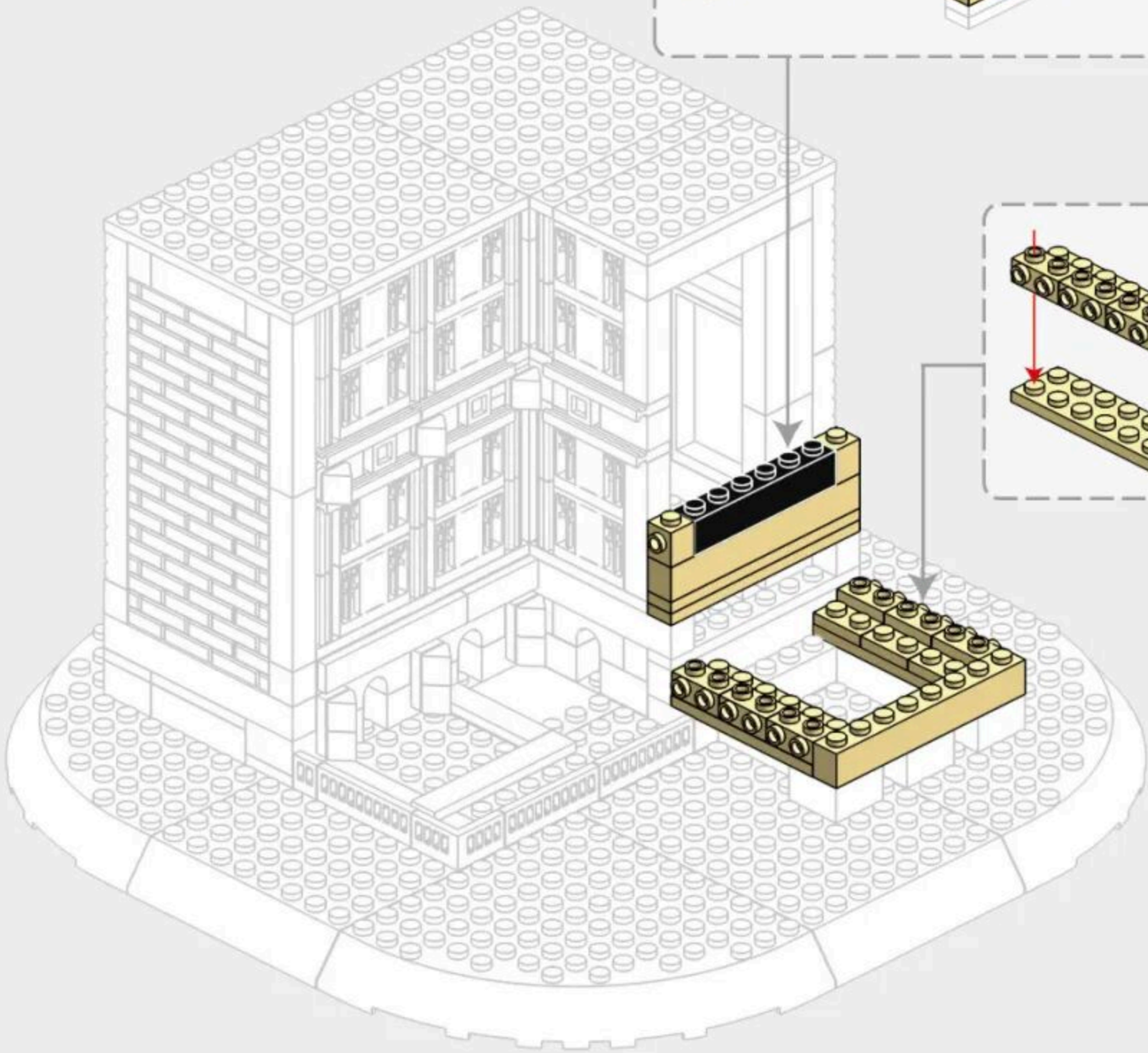
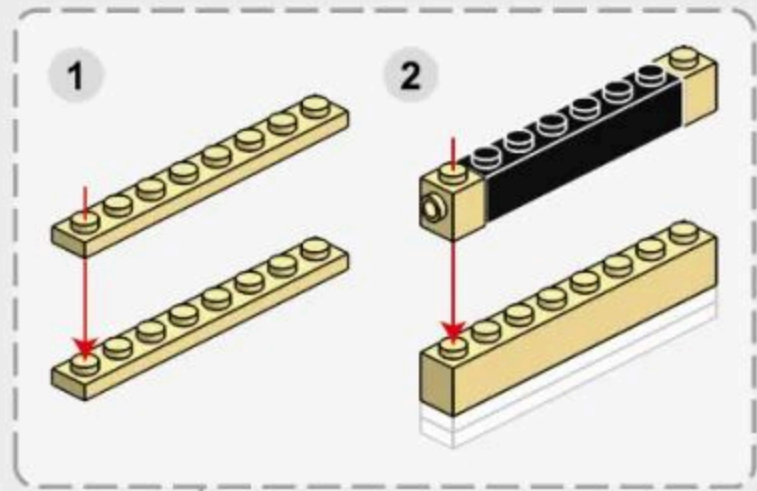
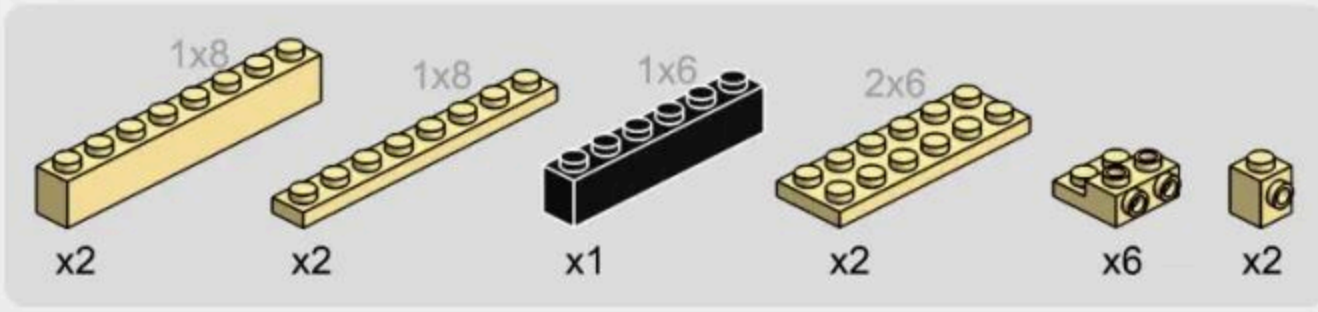




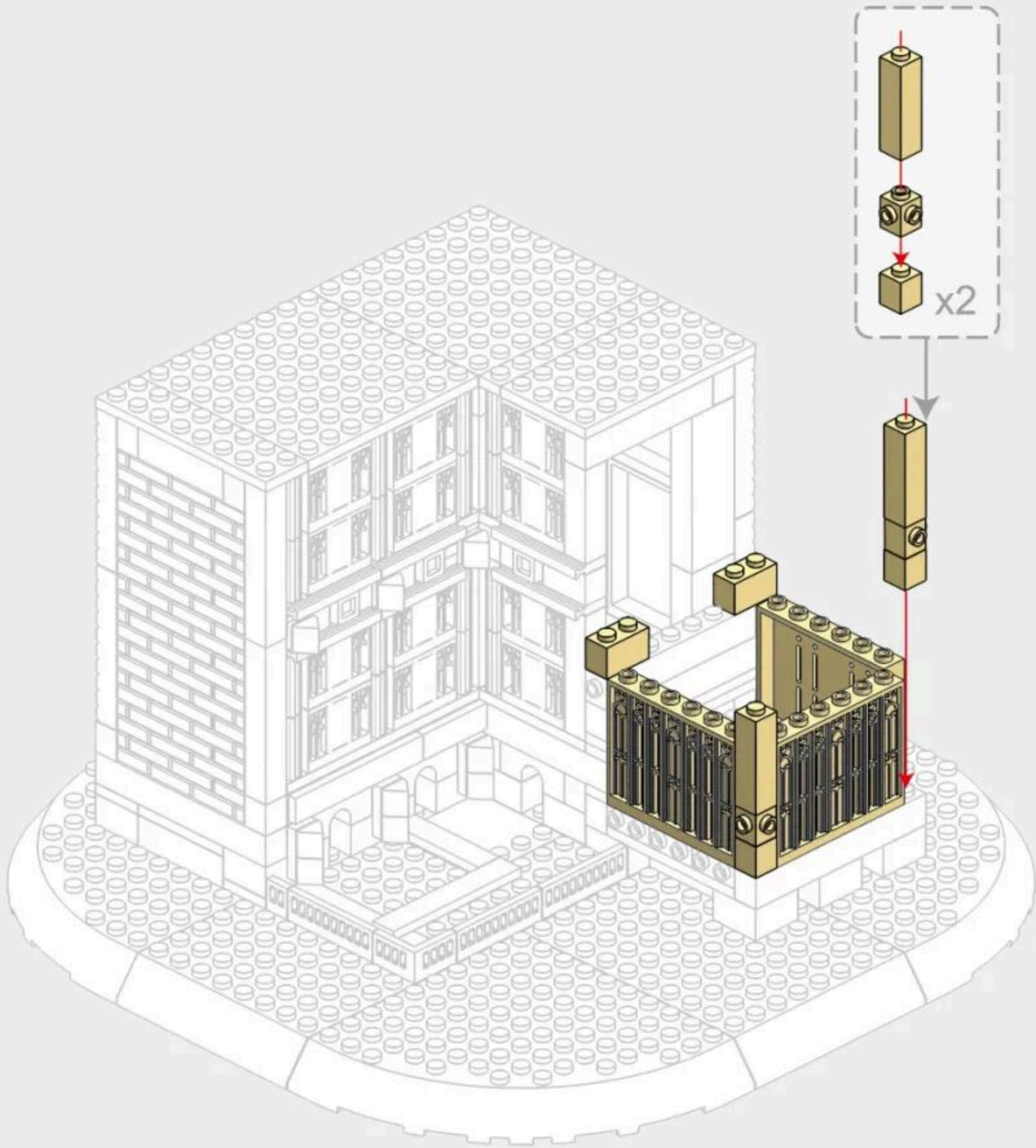
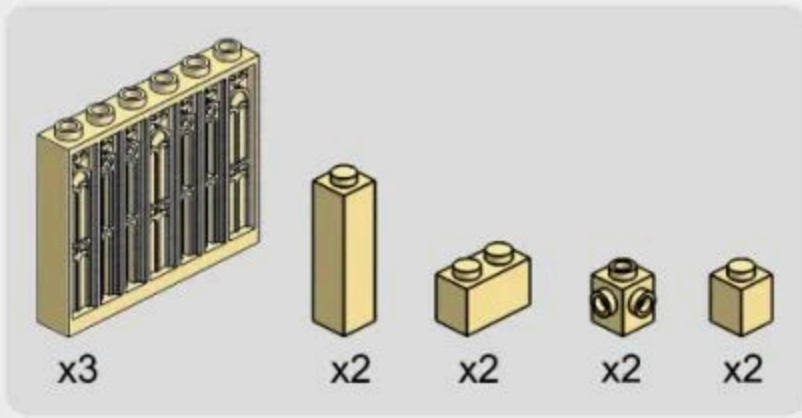
262PCS



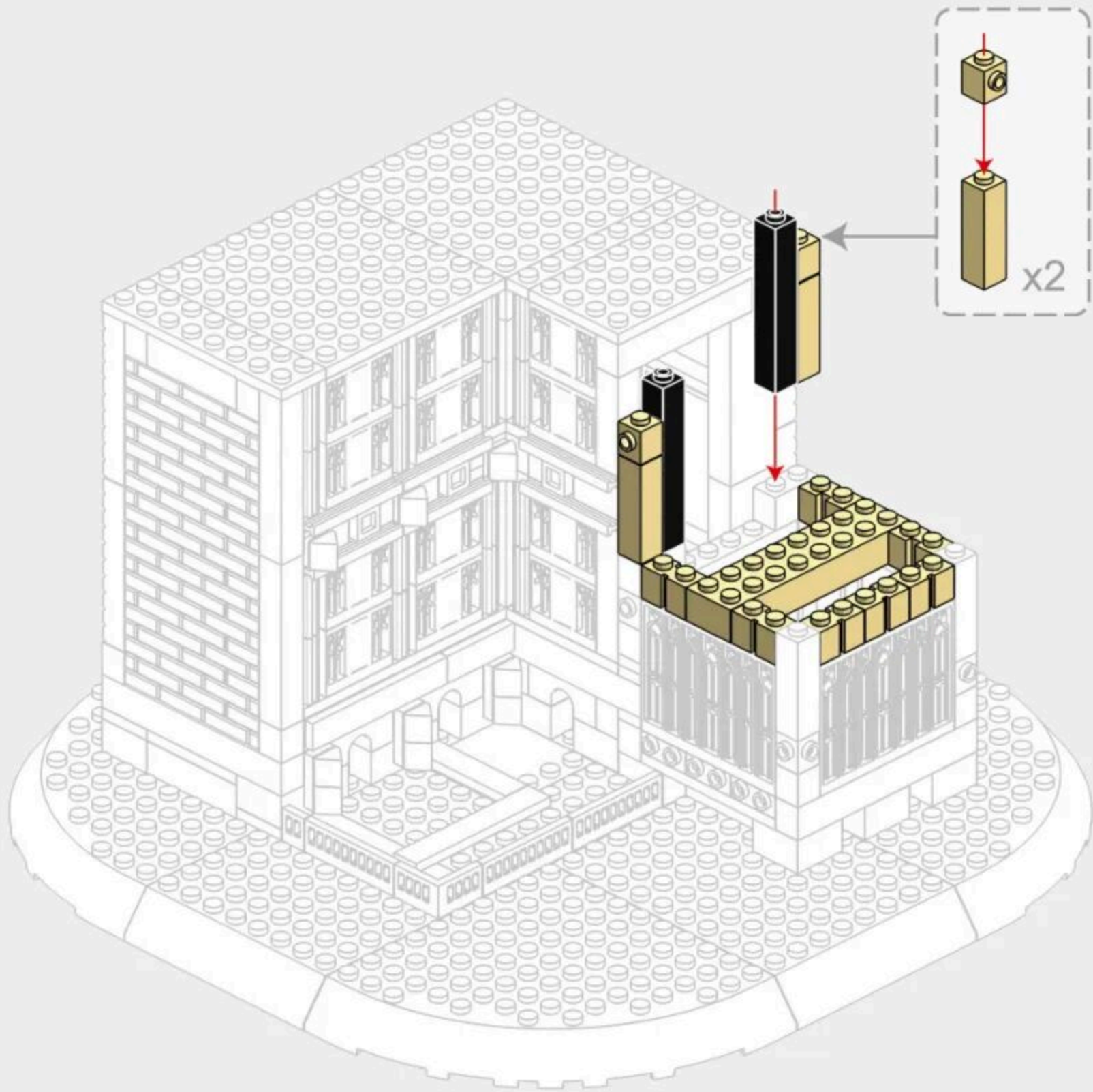
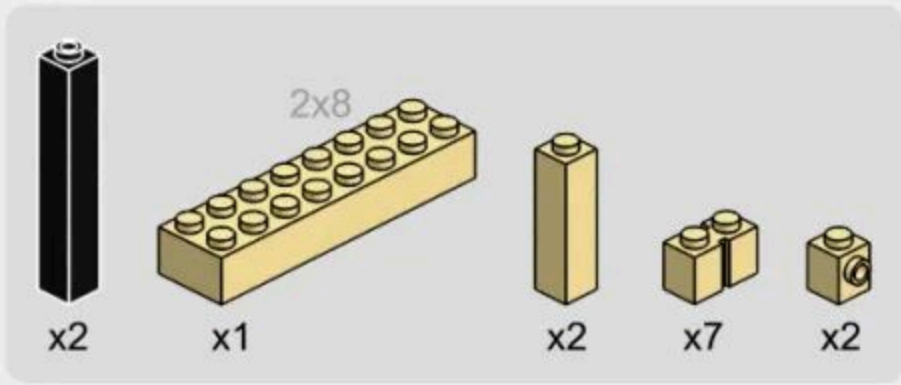
2-1



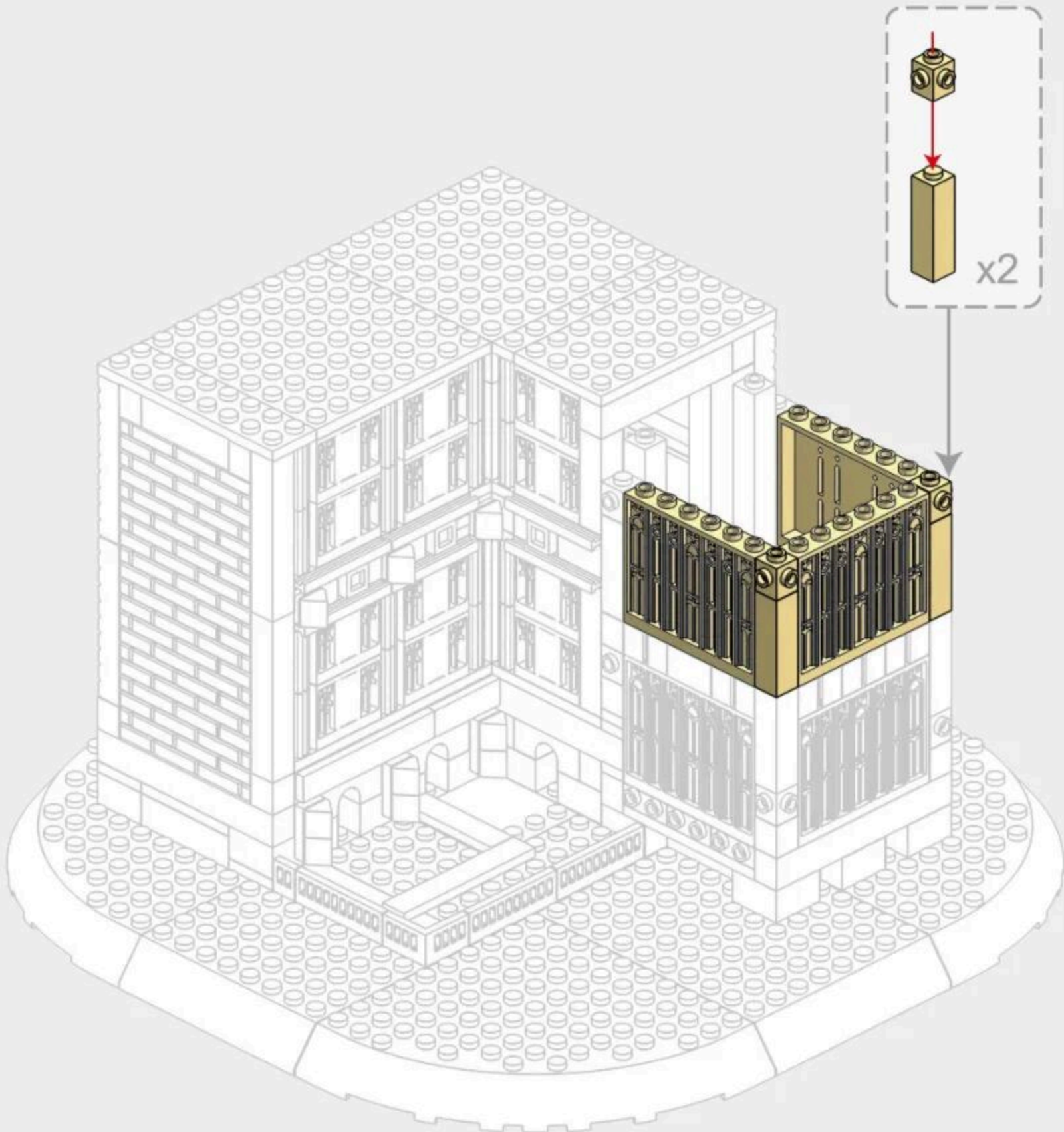
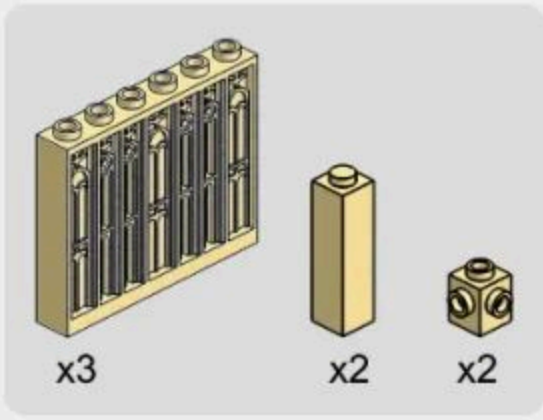
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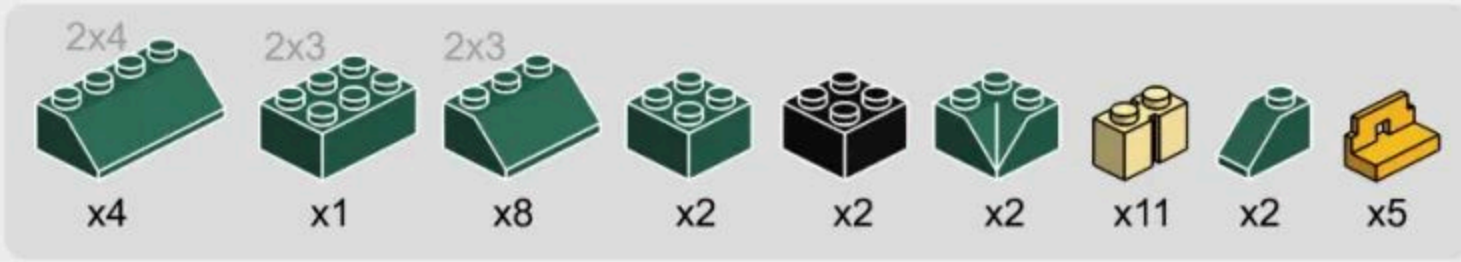
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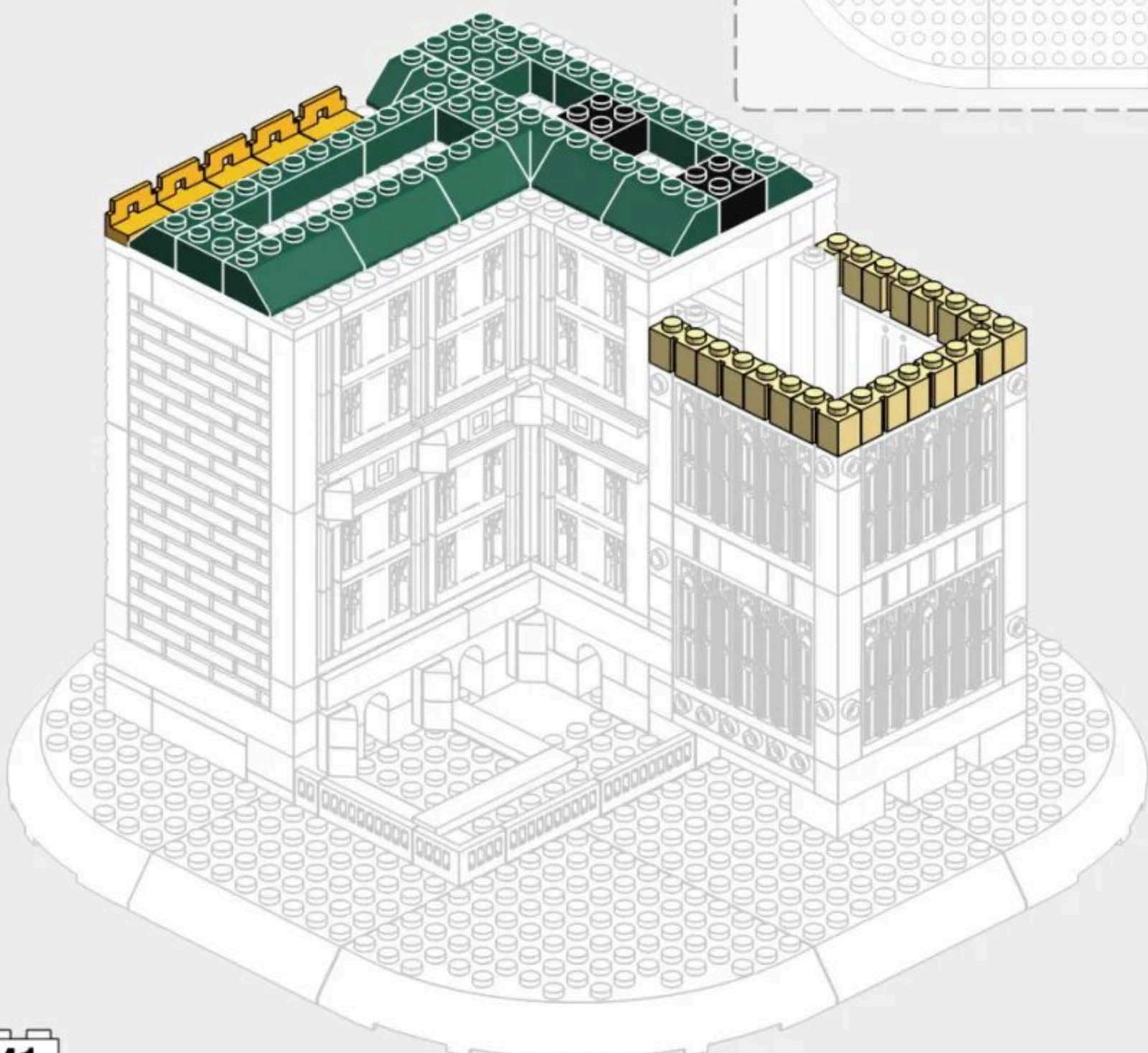
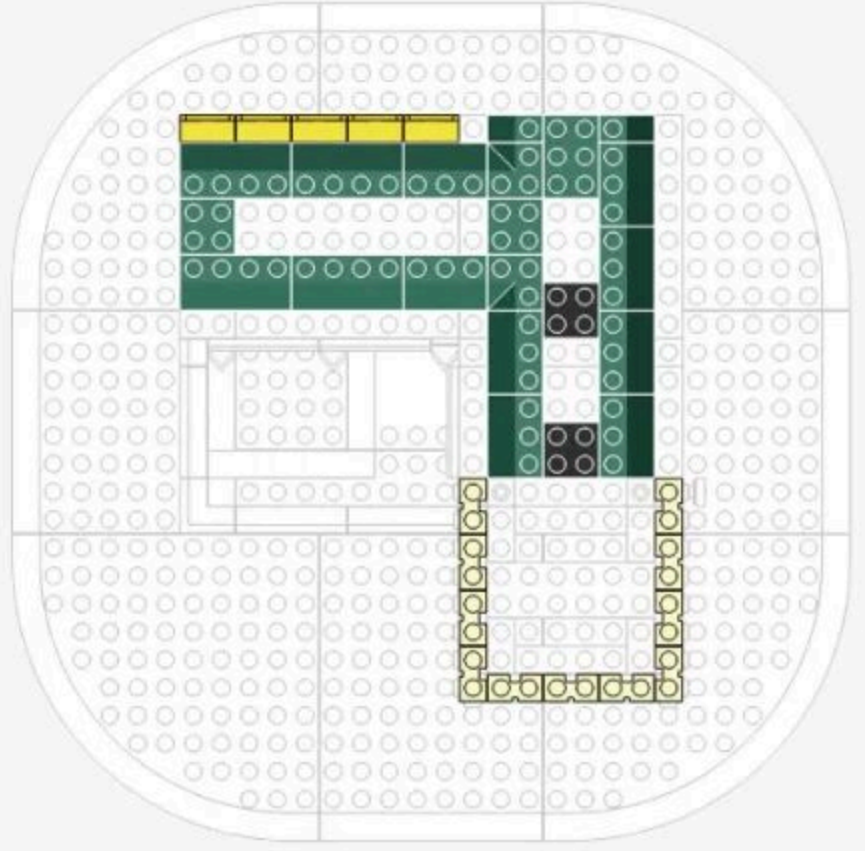
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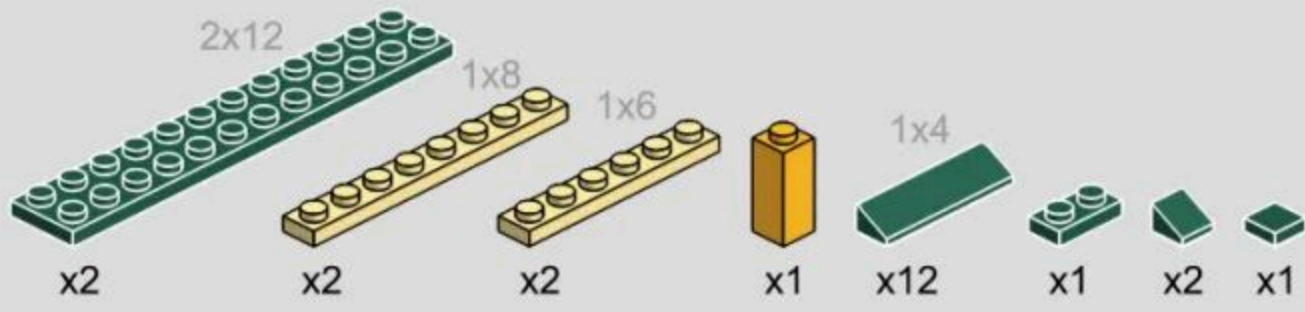
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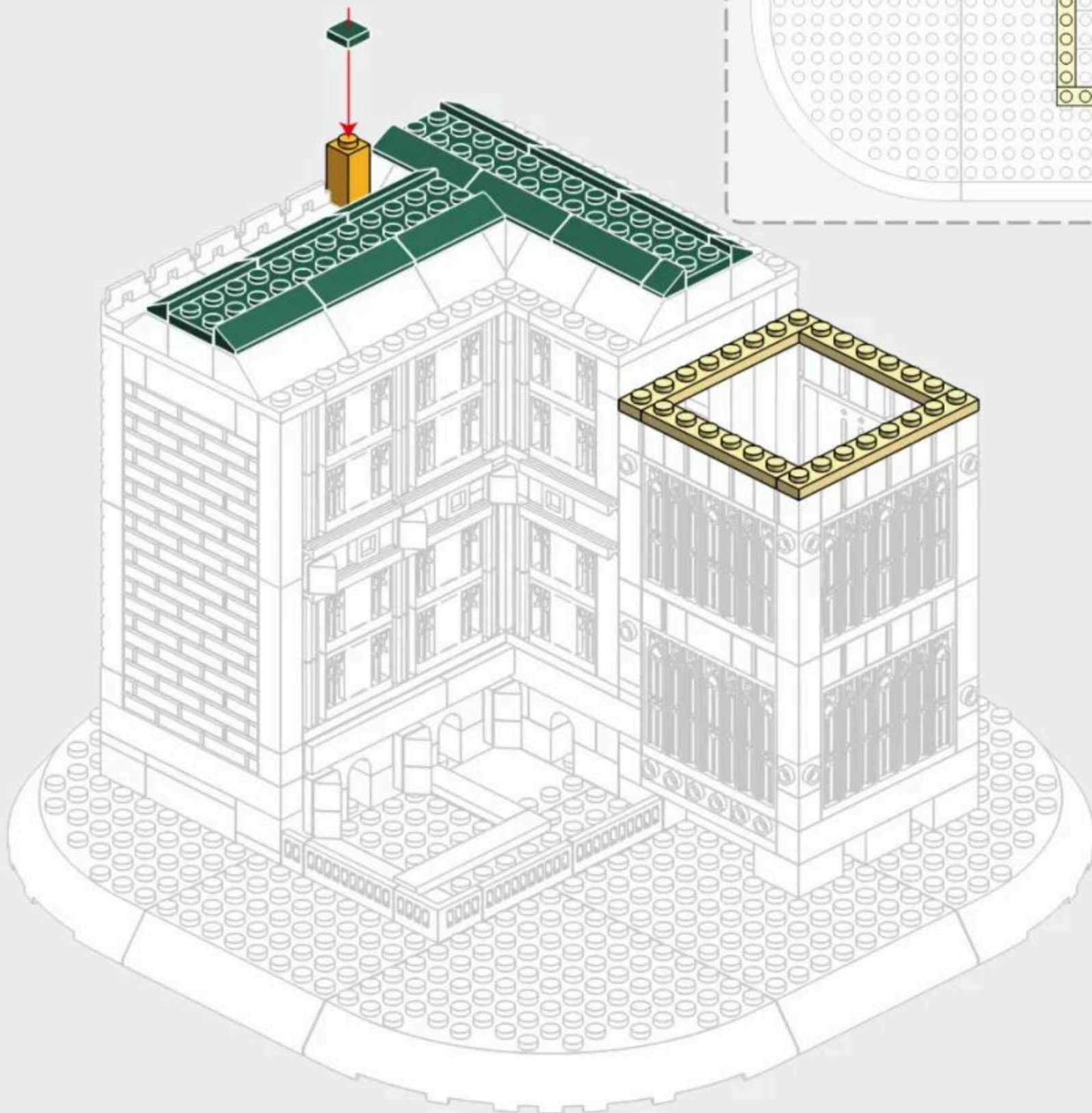
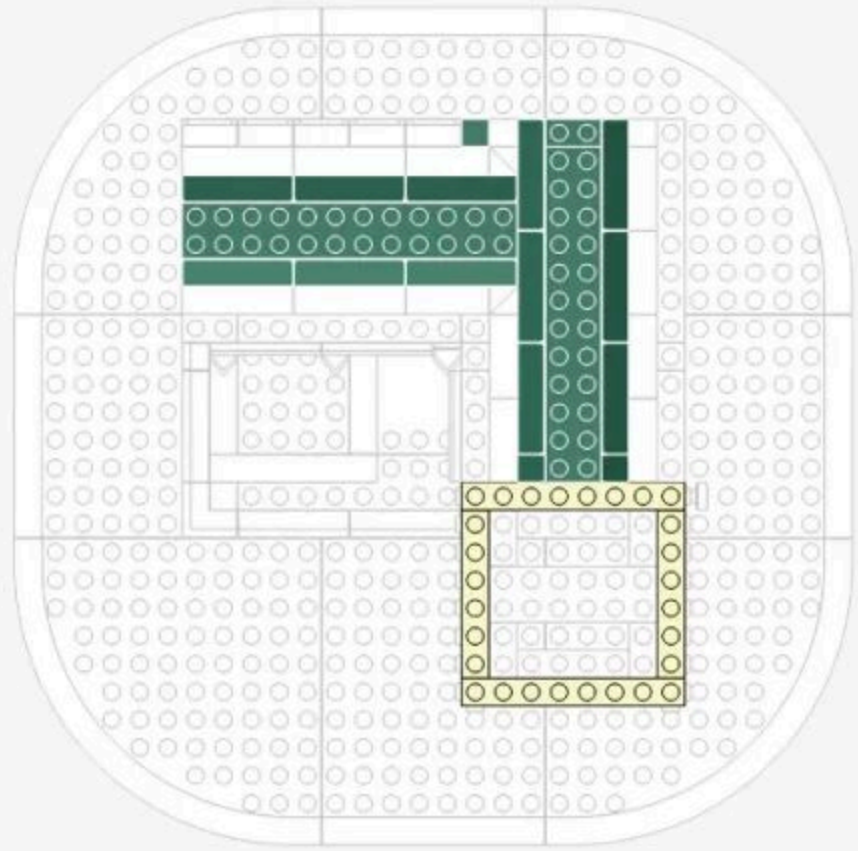
Vertical View of Installation Drawing
安装图顶面



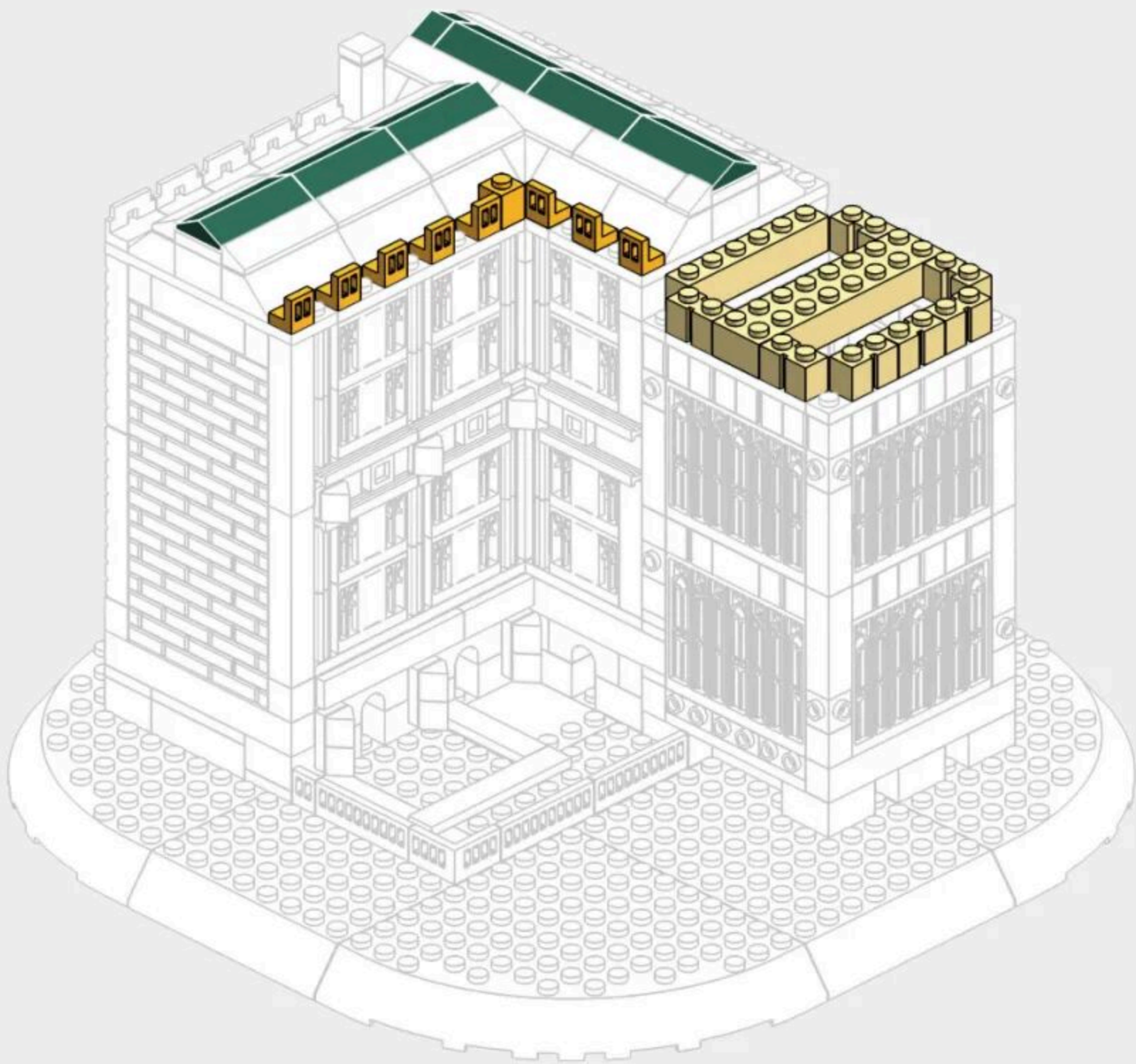
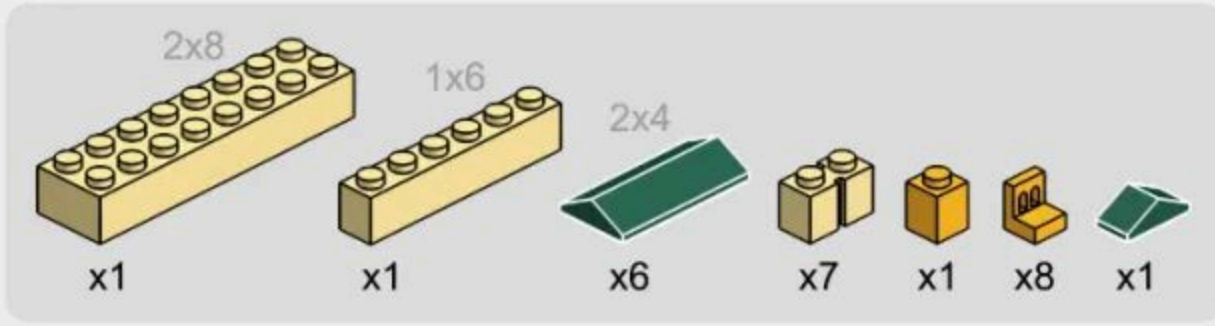
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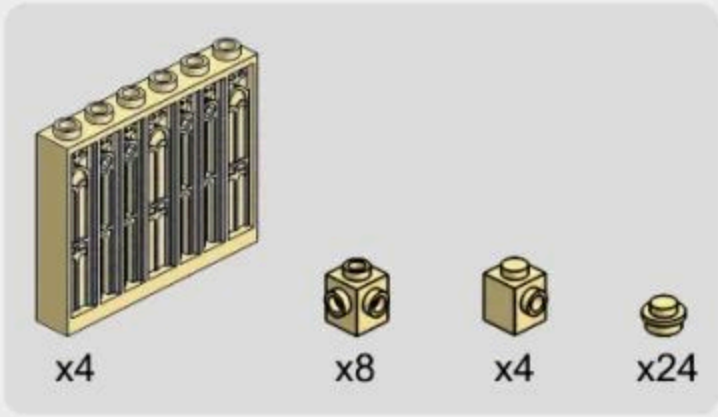
Vertical View of Installation Drawing
安装图顶面



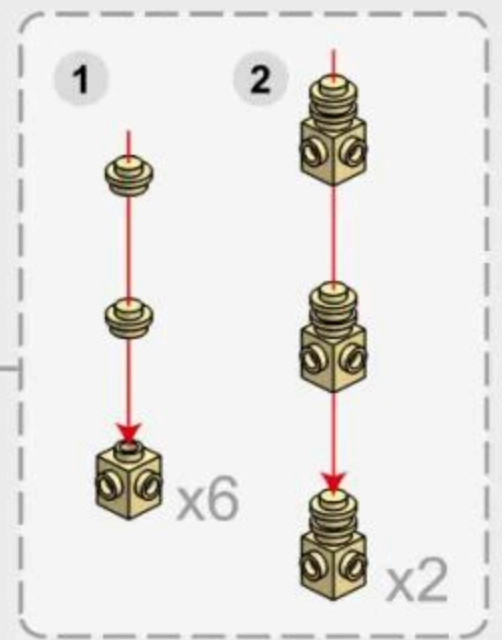
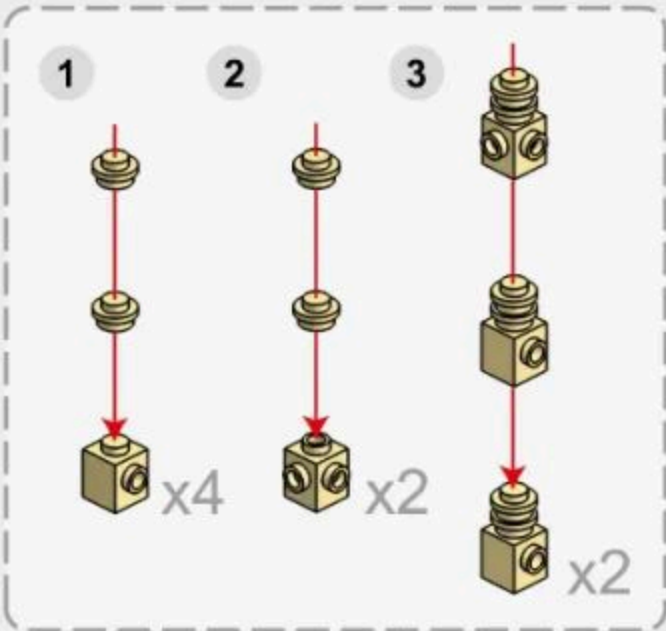
2-7



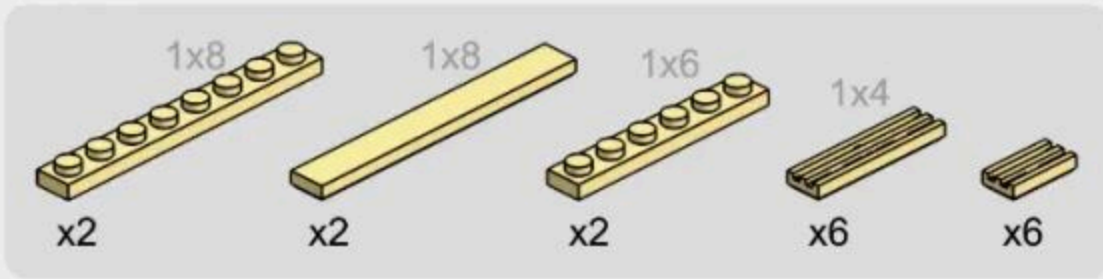
2-8



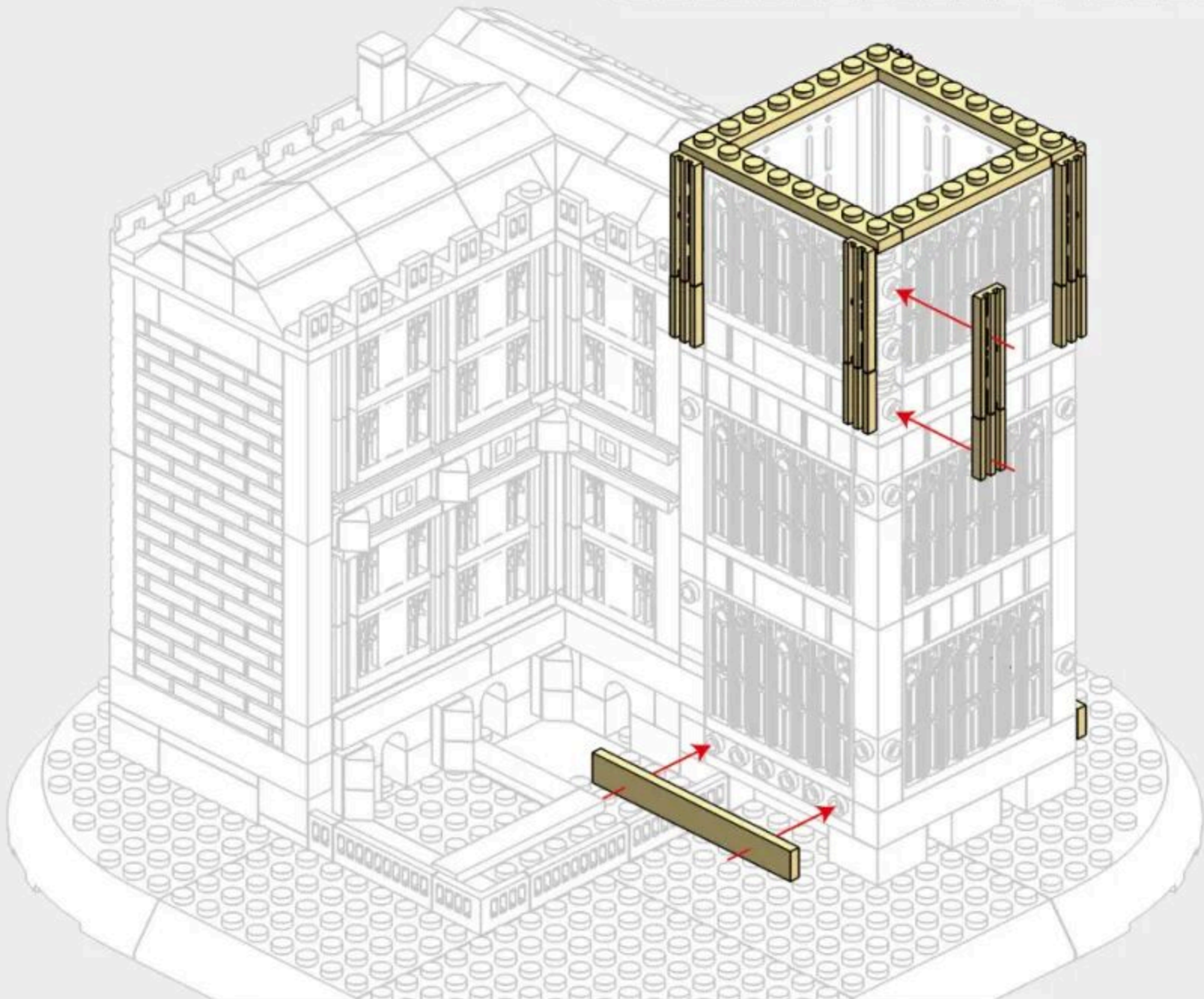
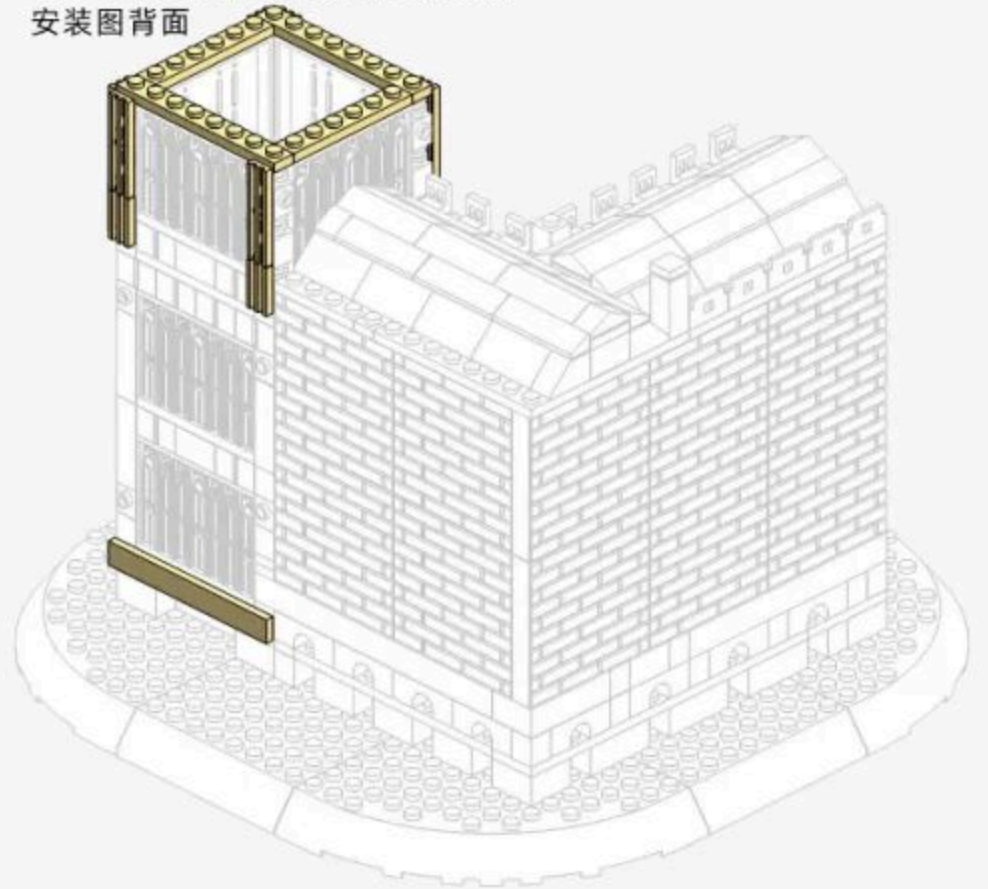
The Back of Installation Drawing
安装图背面



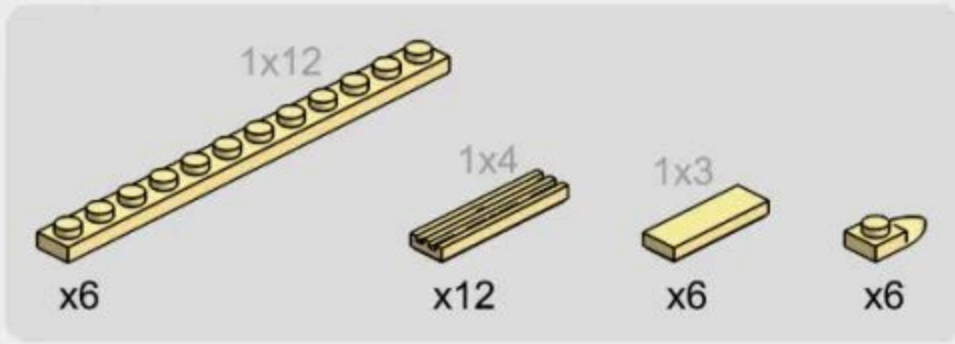
2-9



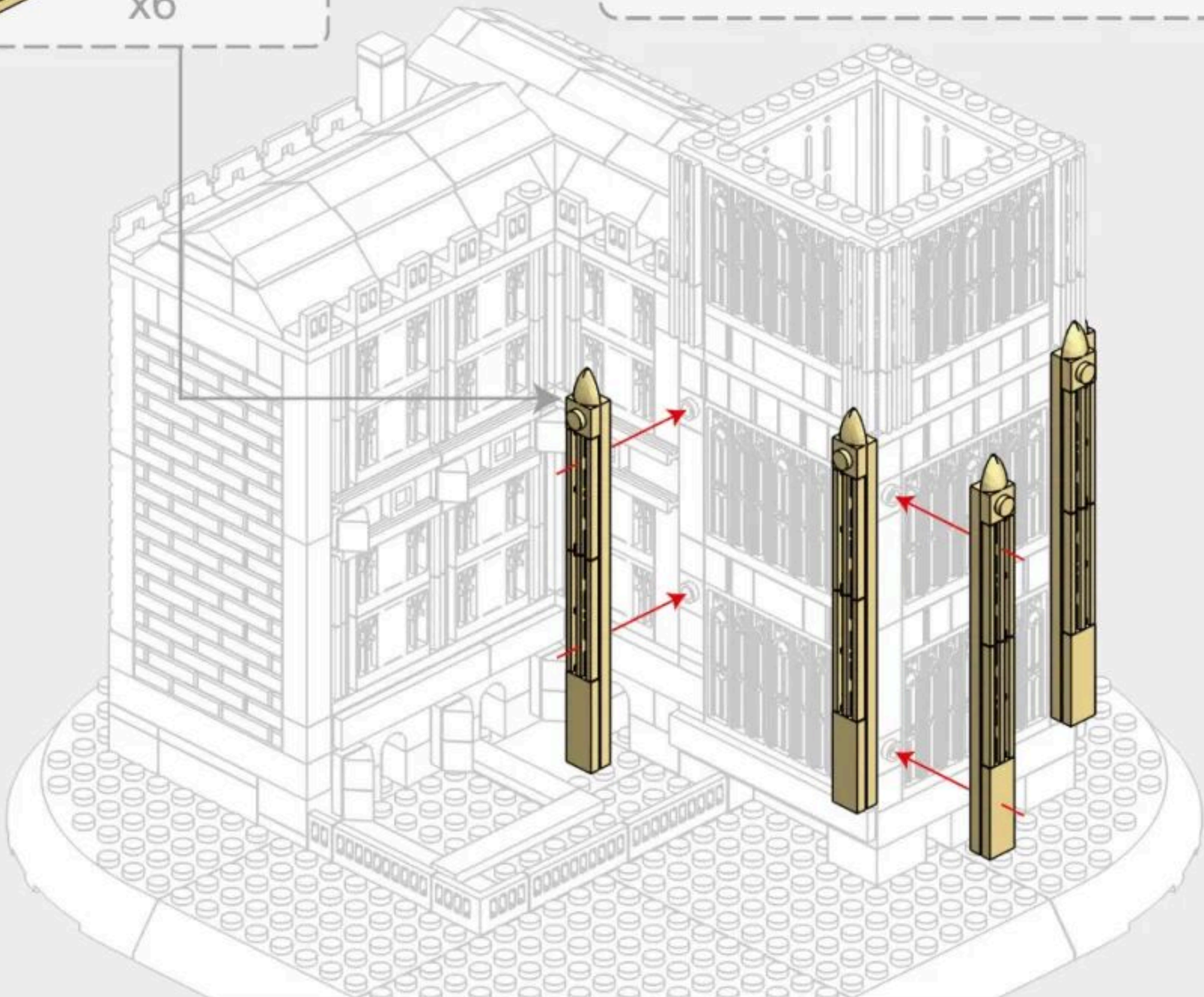
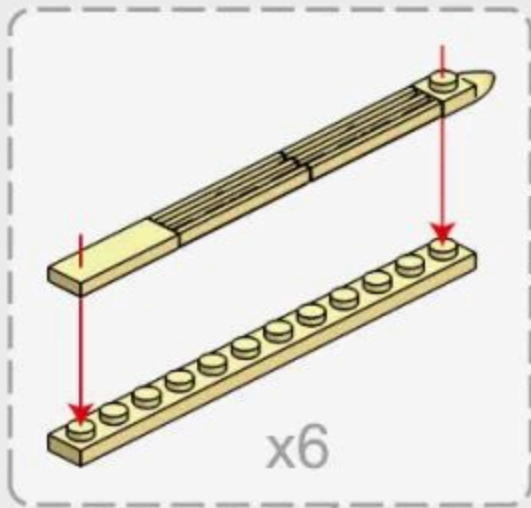
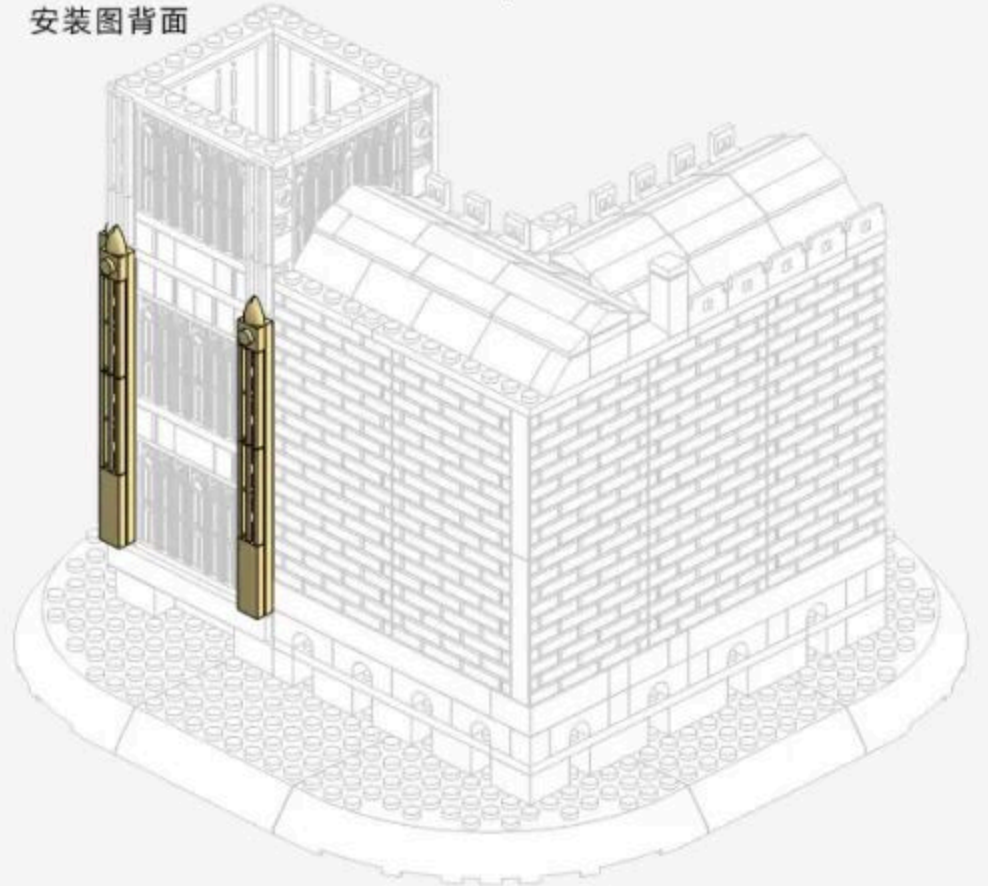
The Back of Installation Drawing
安装图背面



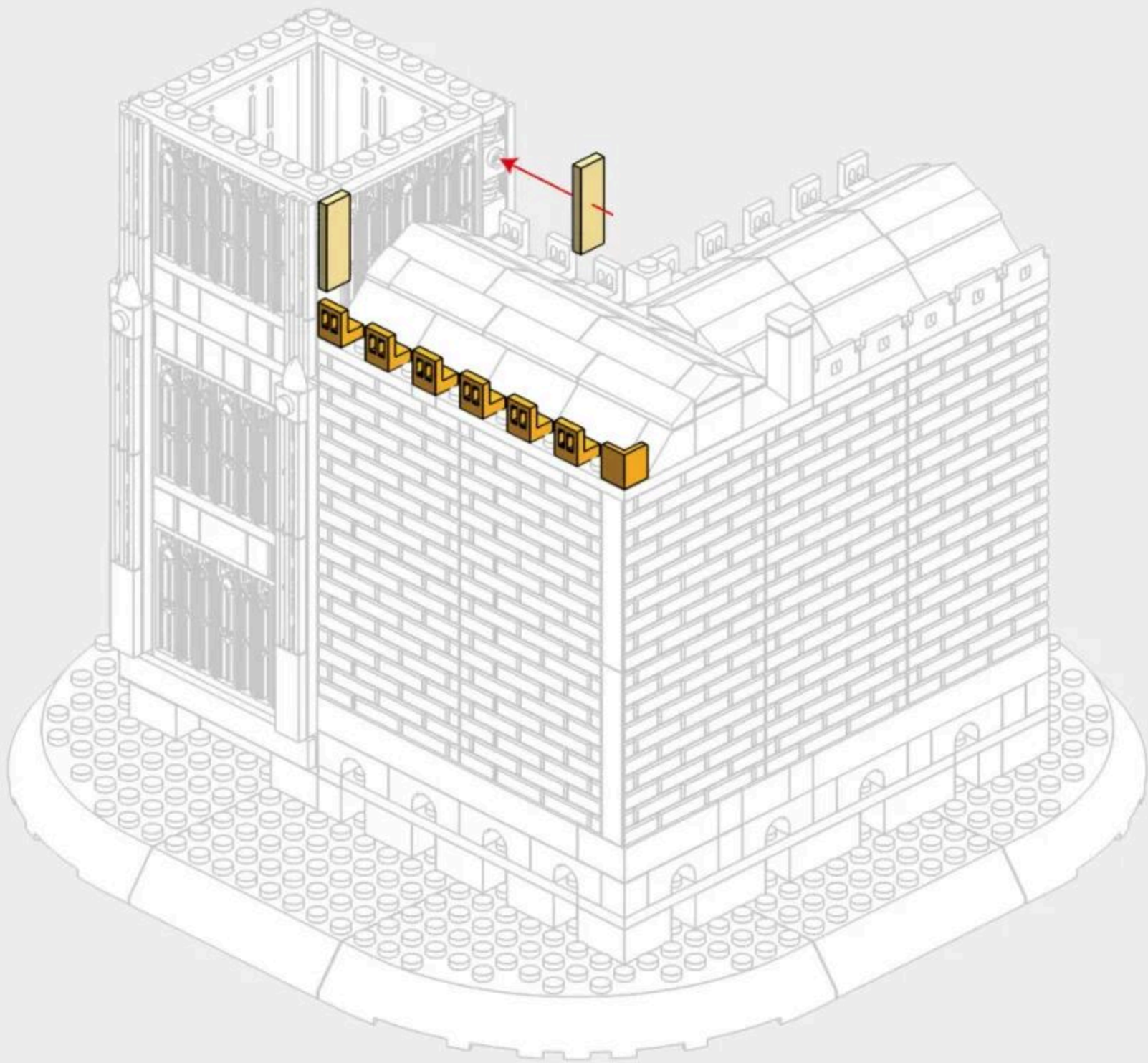
2-10



The Back of Installation Drawing
安装图背面



2-11



2-12



x13



x7

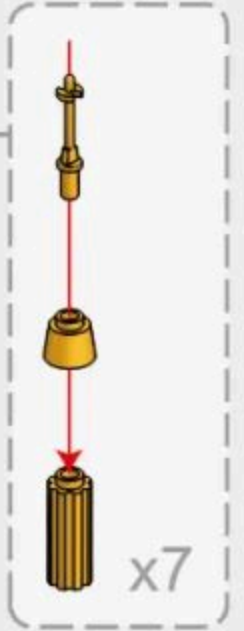
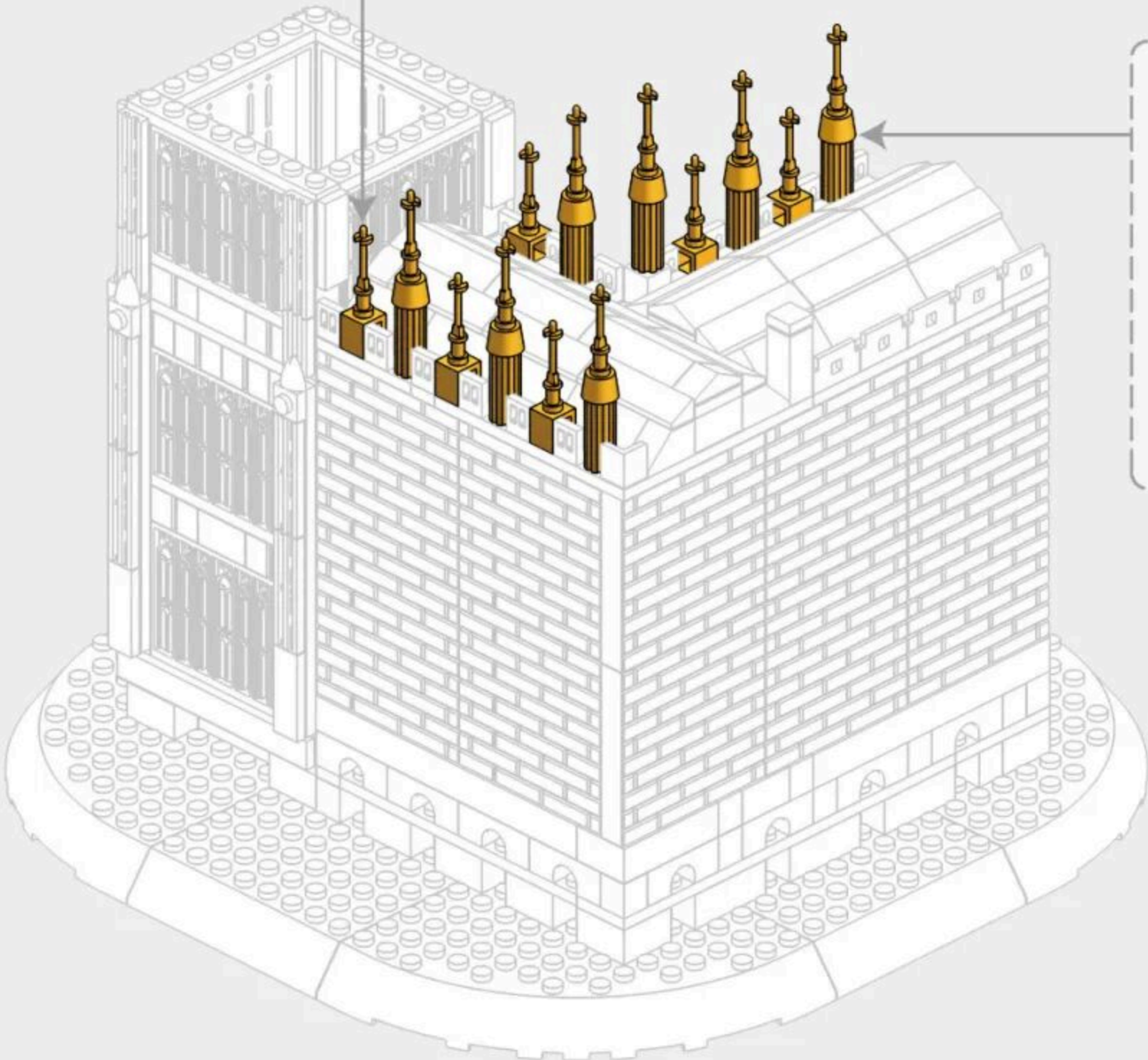
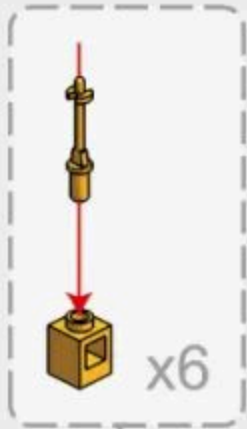
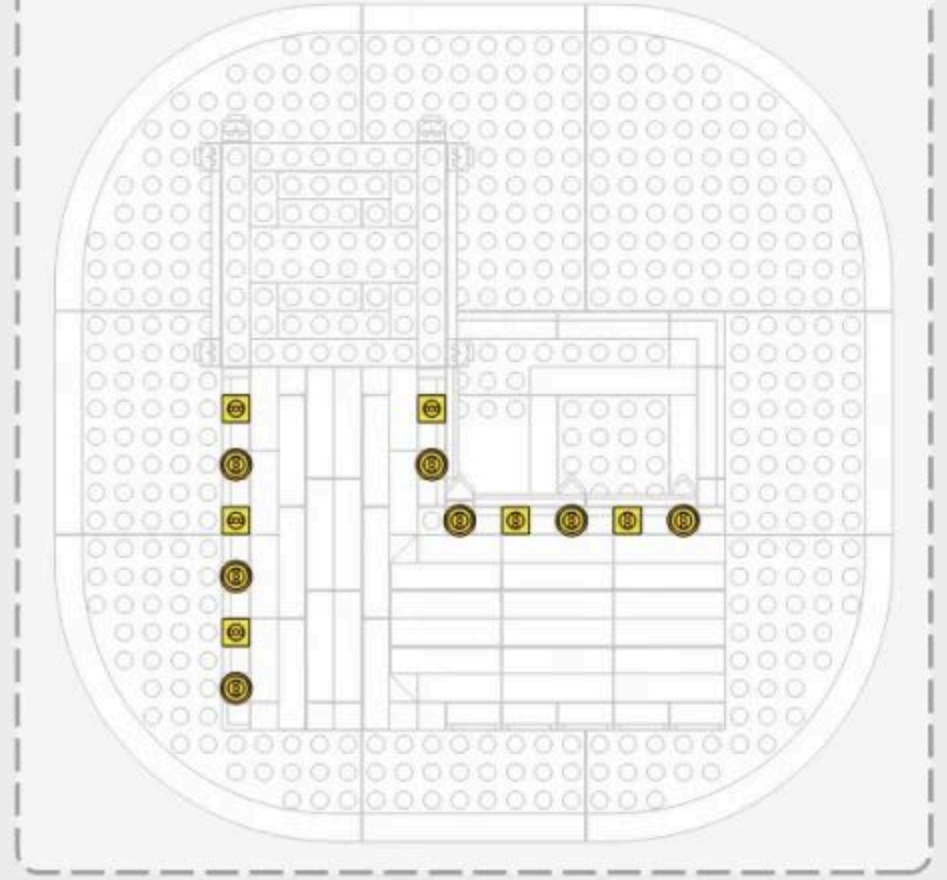


x6



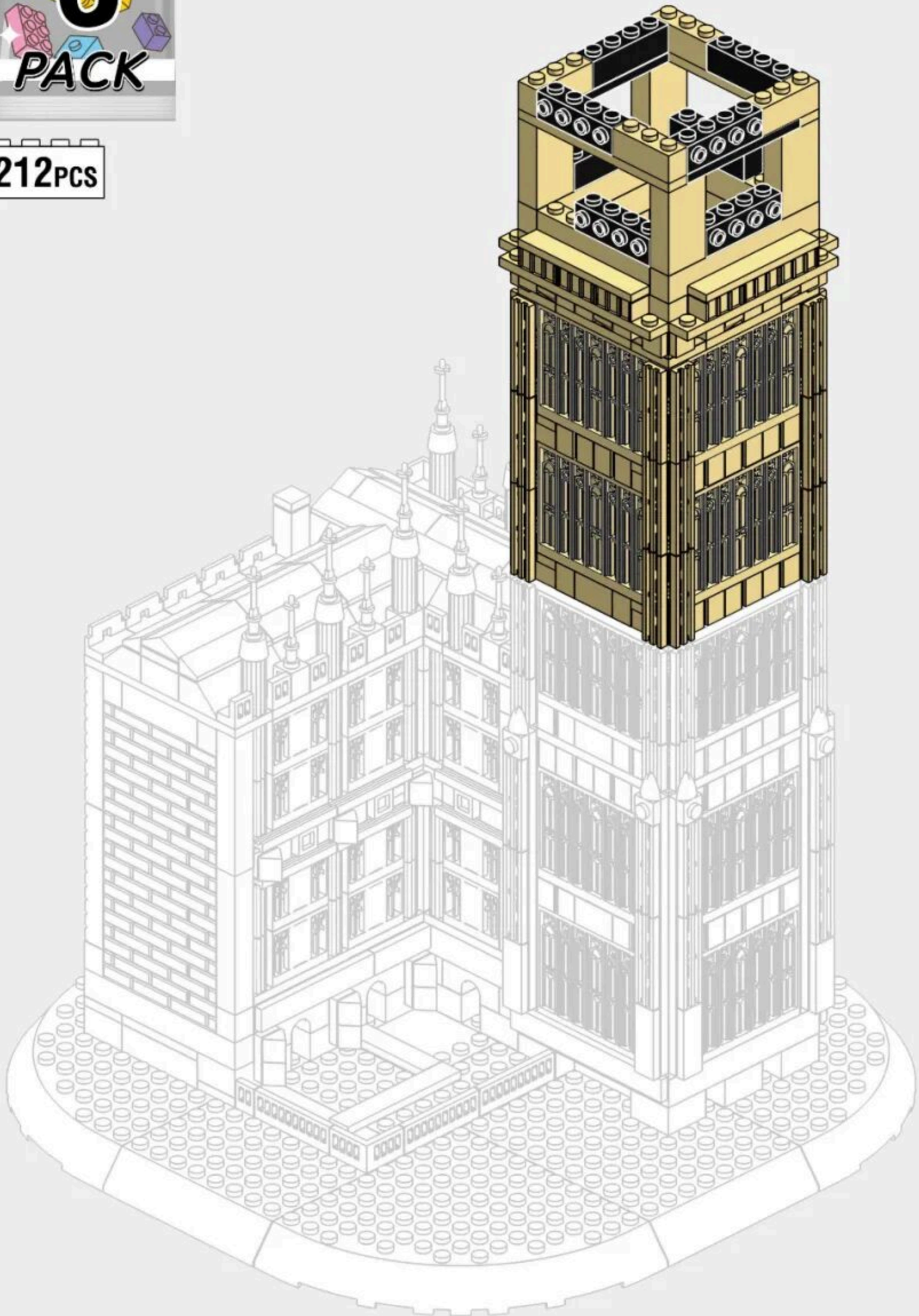
x7

Vertical View of Installation Drawing
安装图顶面

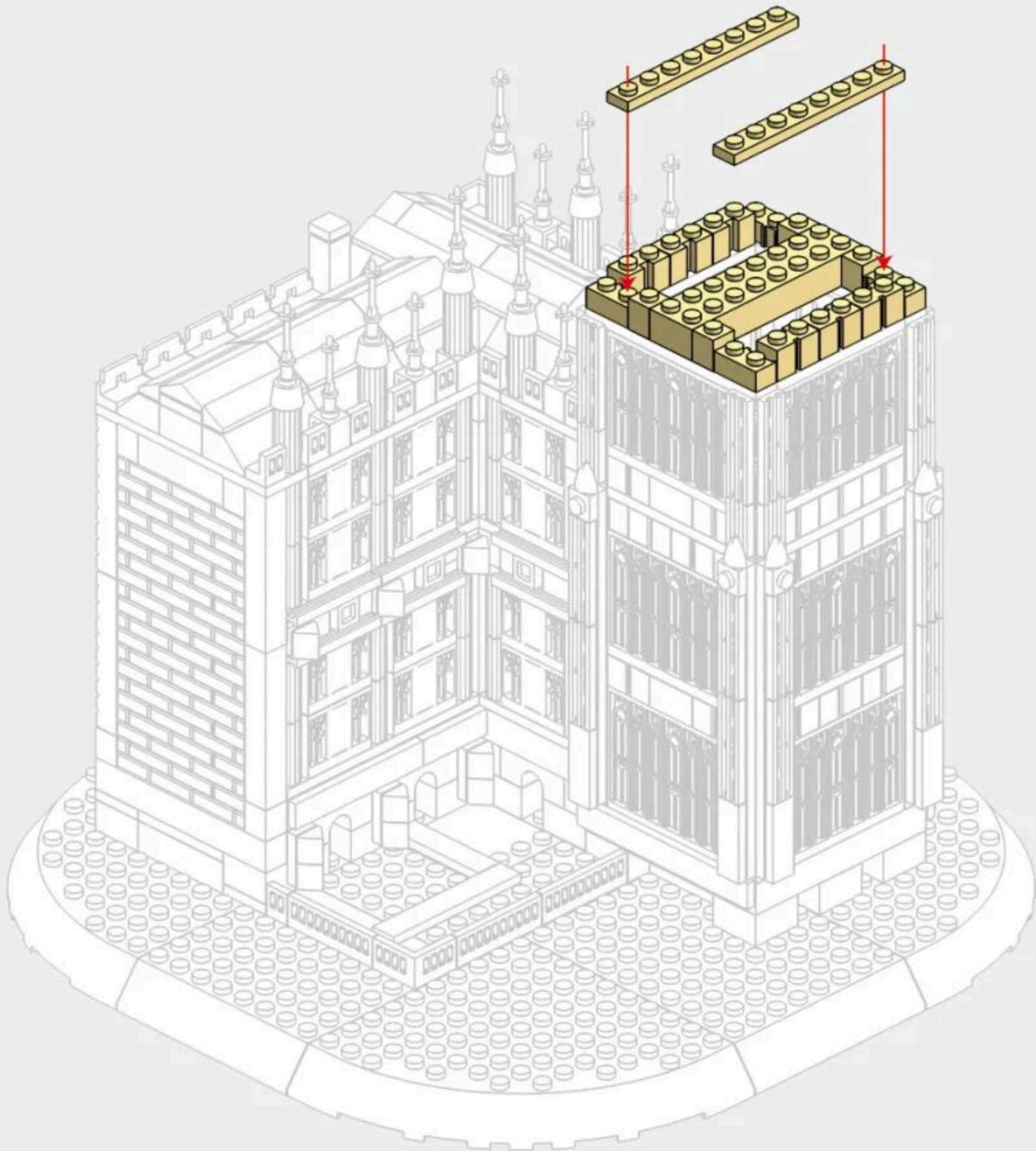
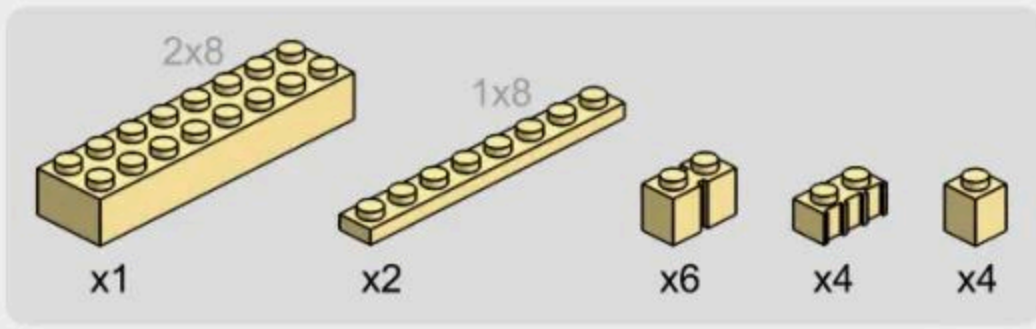




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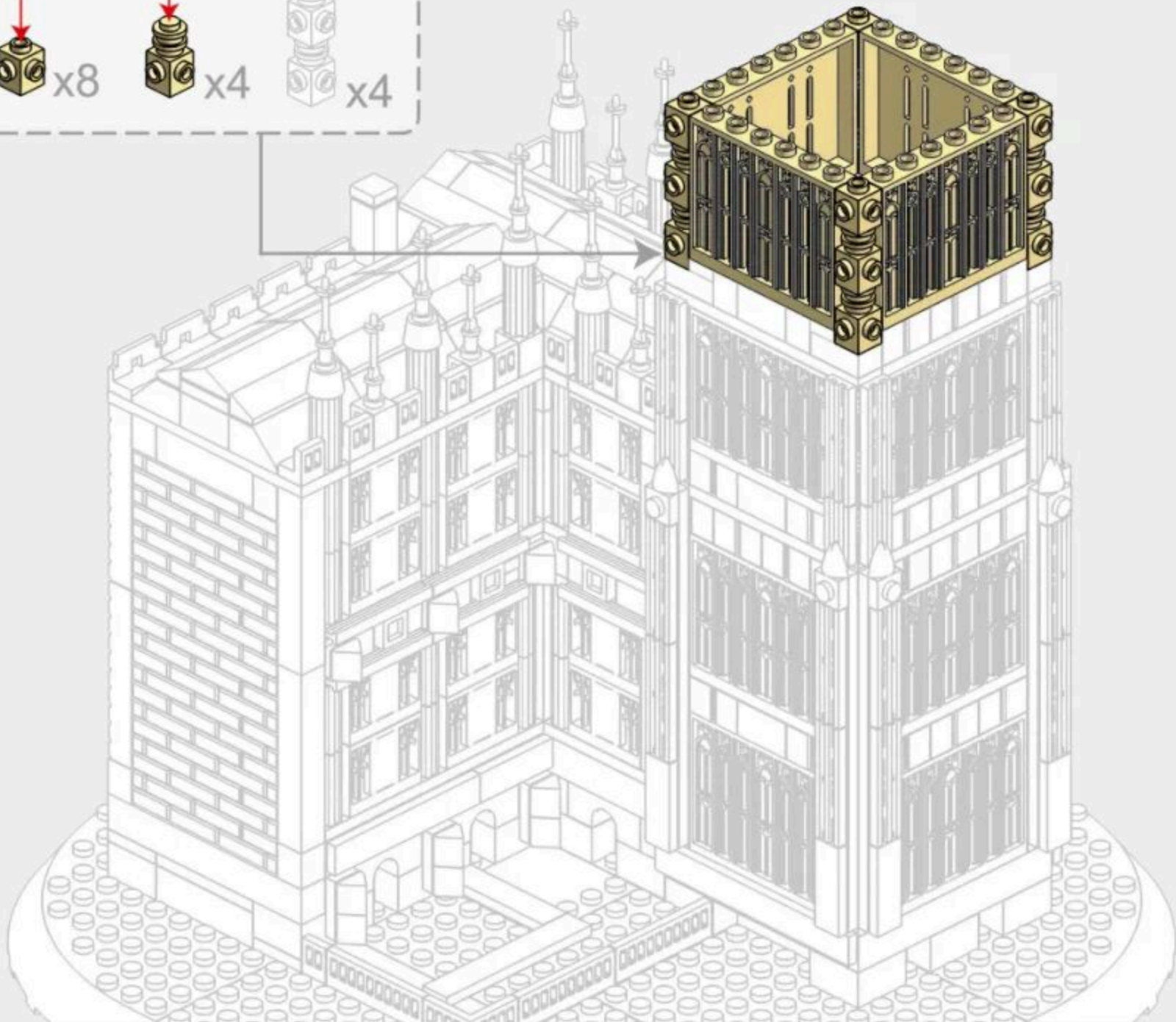
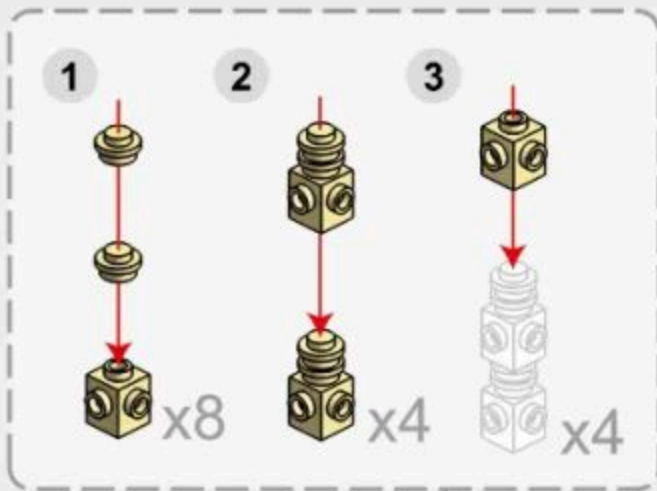
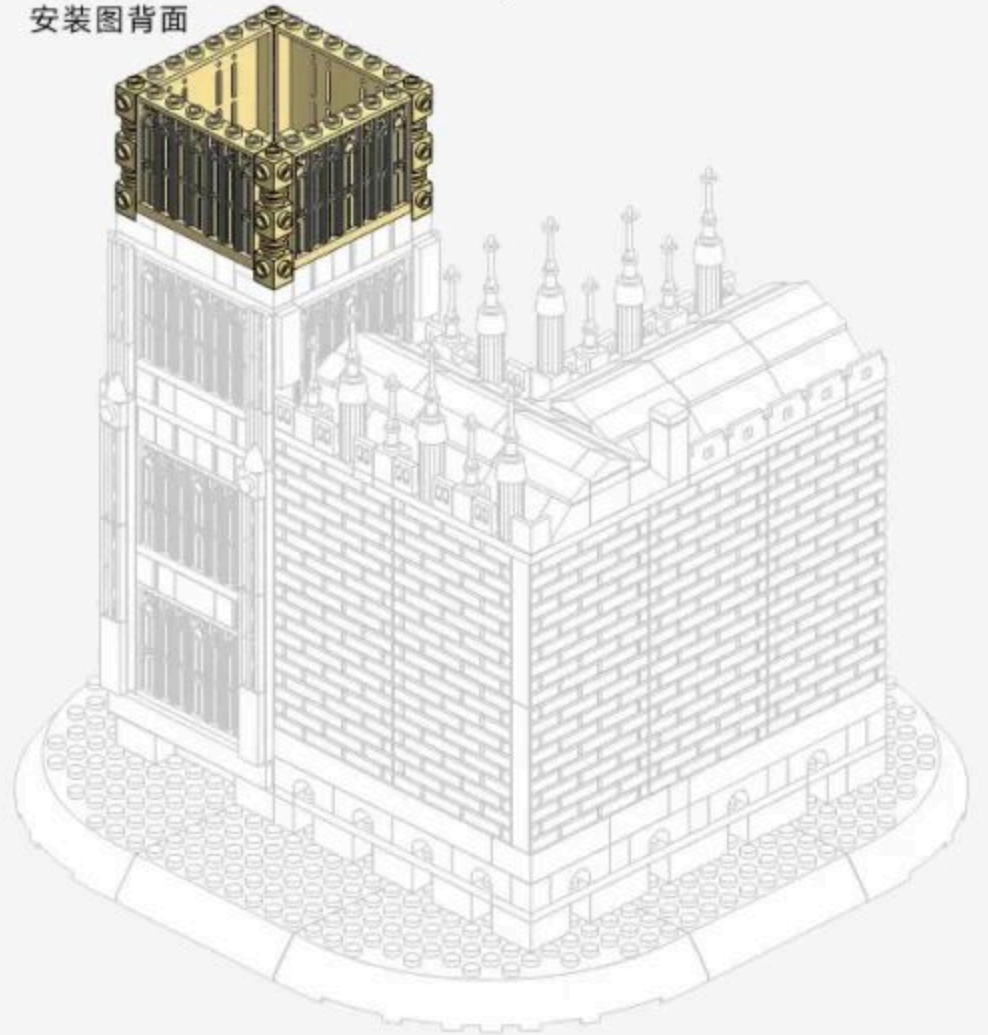
3-1



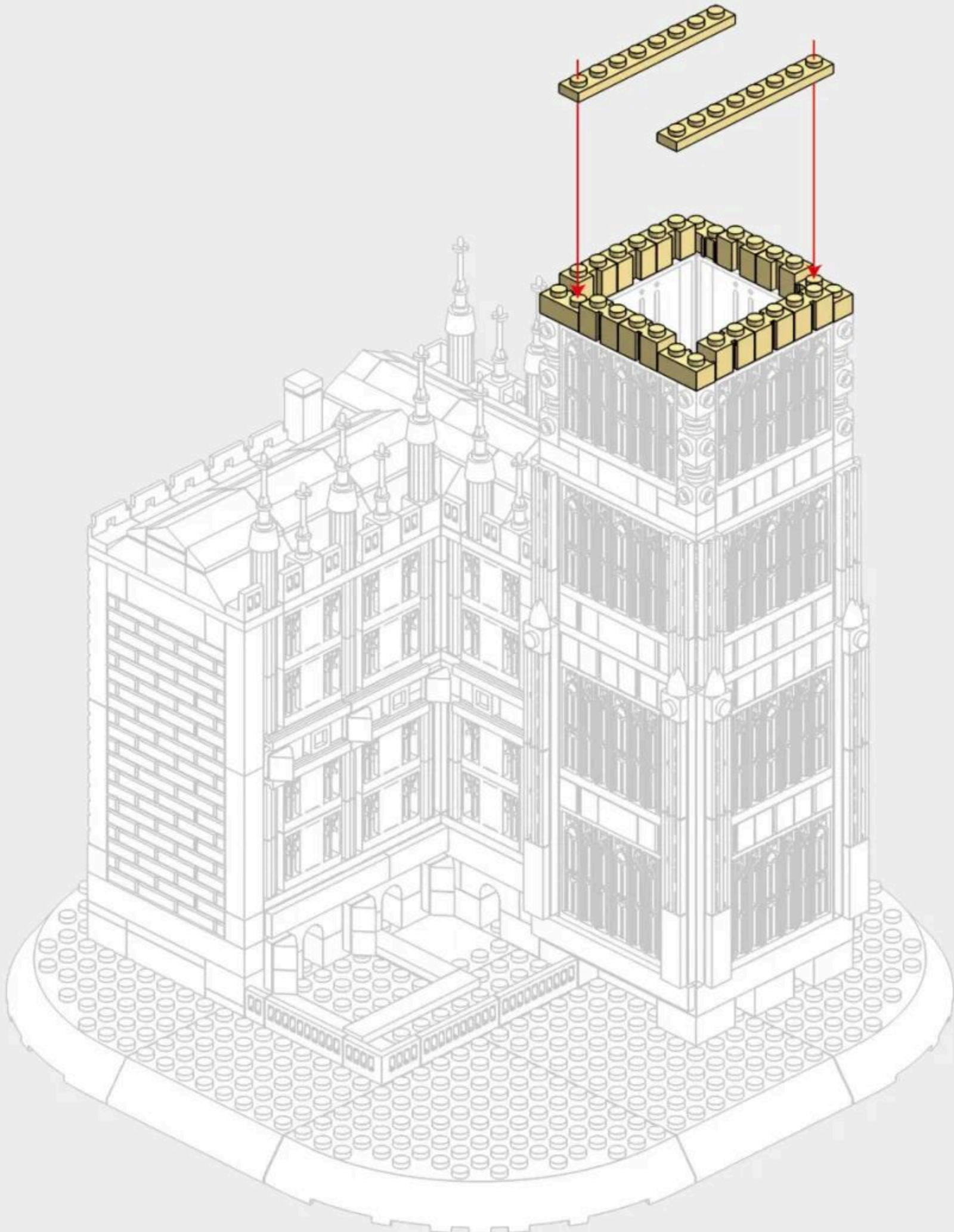
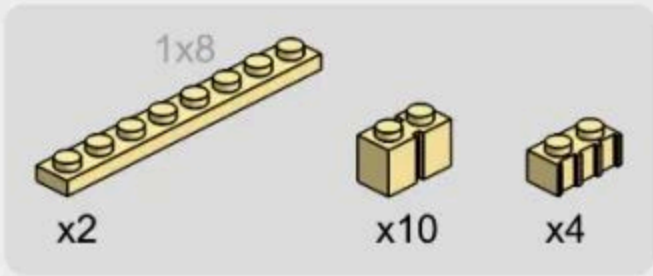
3-2



The Back of Installation Drawing
安装图背面



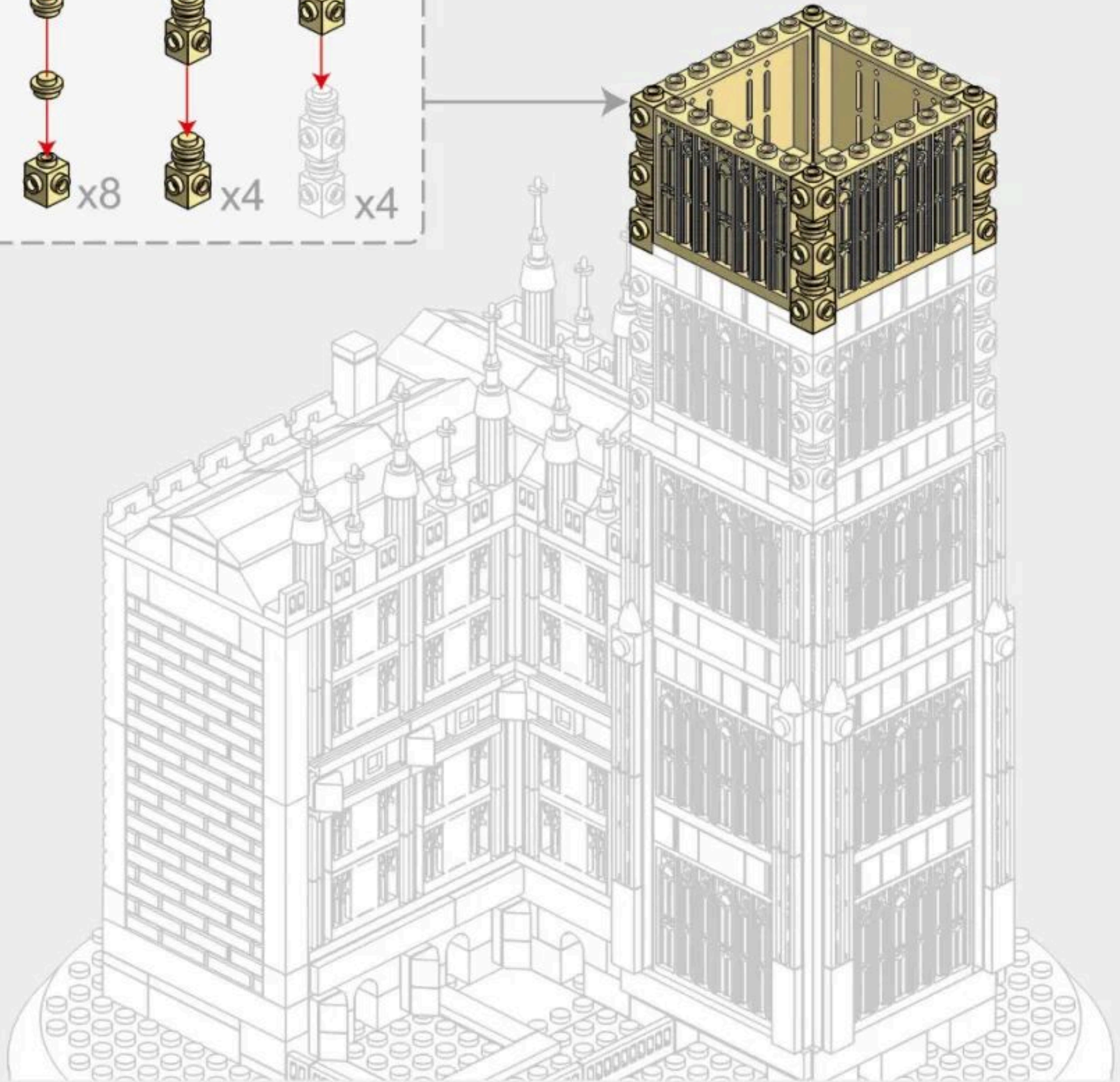
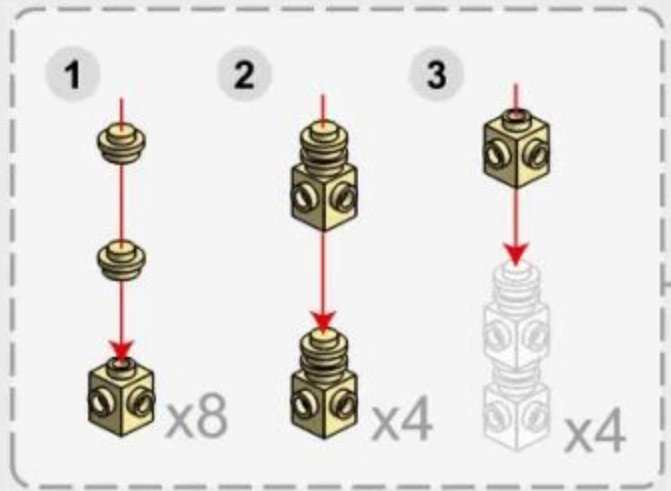
3-3



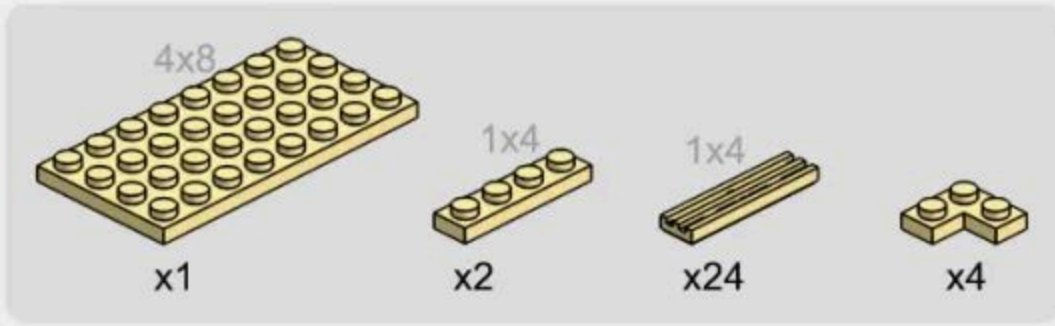
3-4



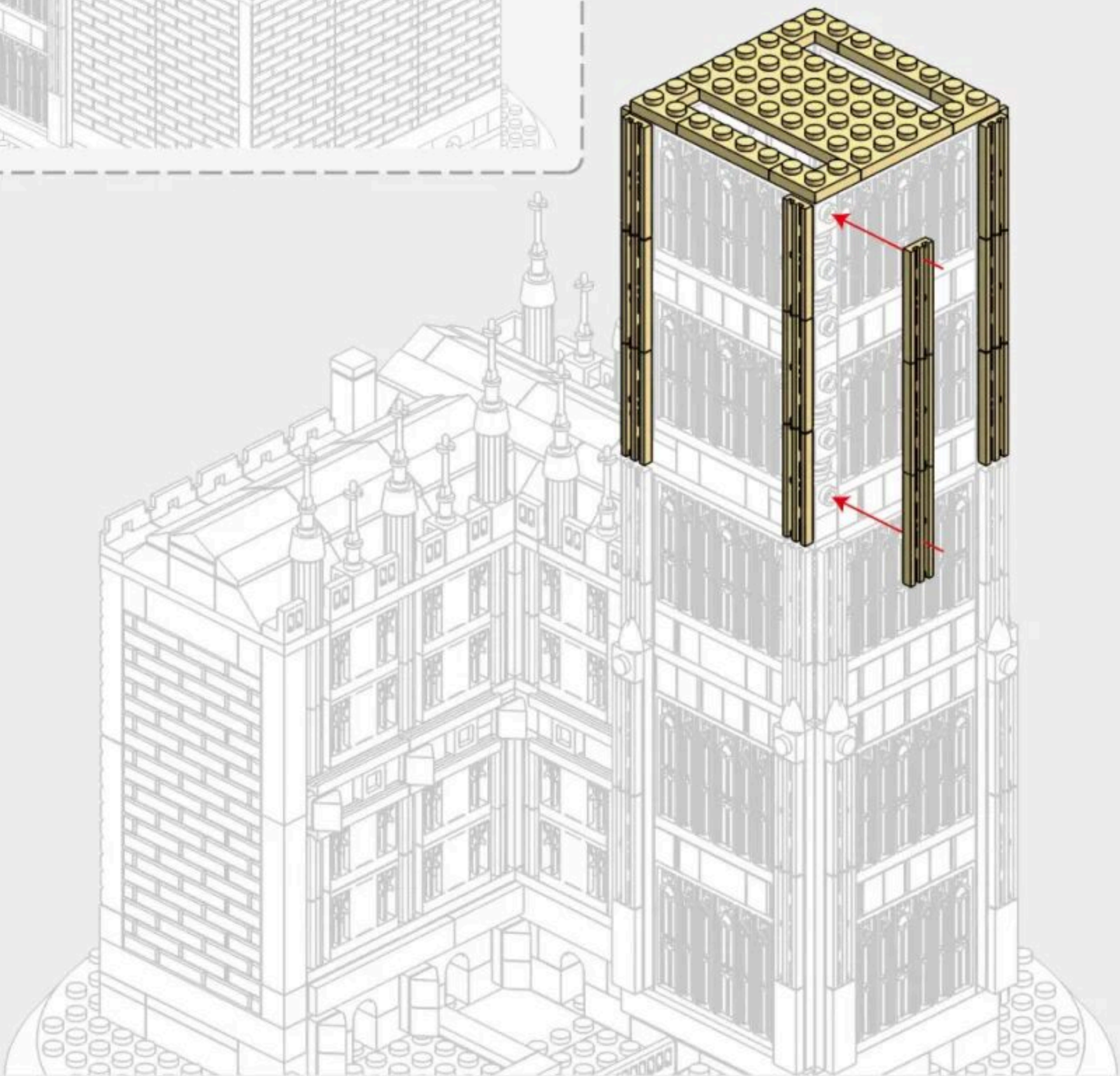
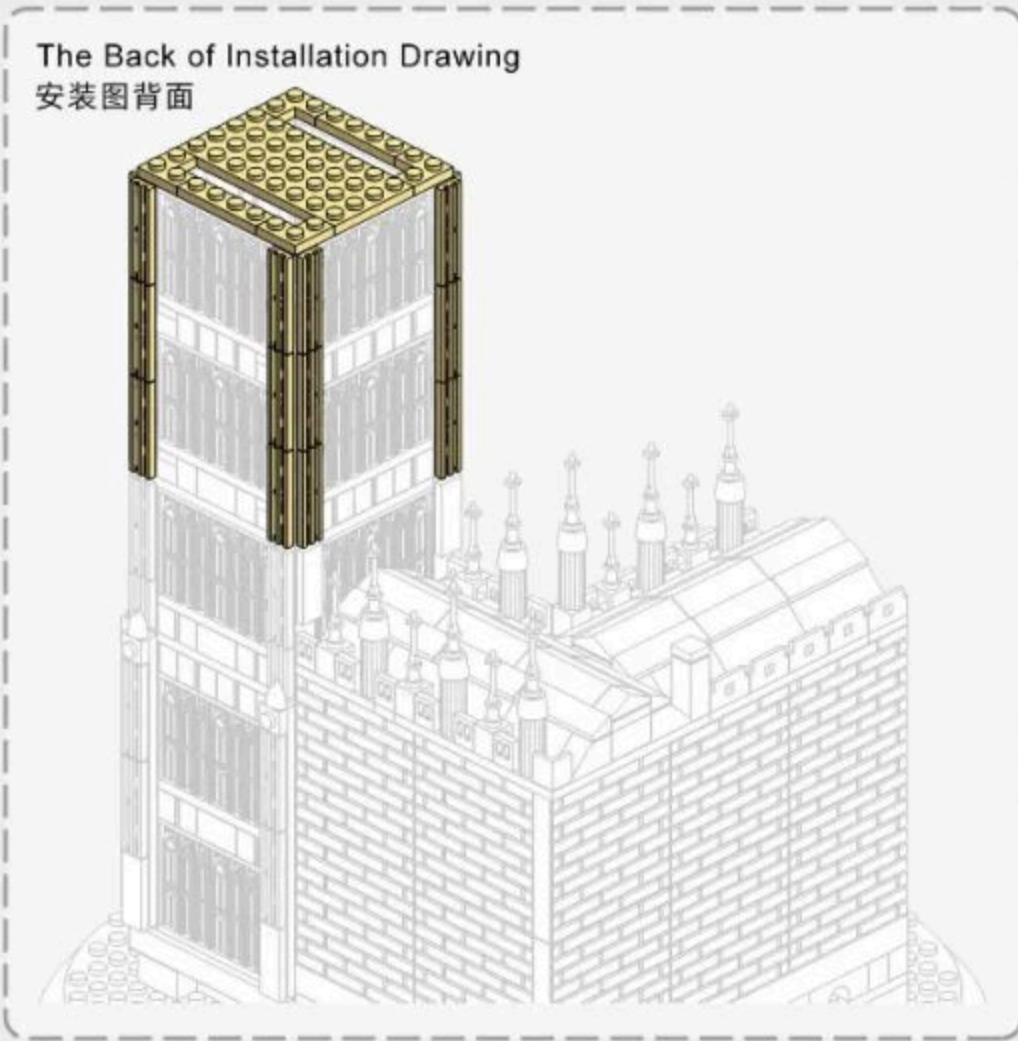
The Back of Installation Drawing
安装图背面



3-5



The Back of Installation Drawing
安装图背面



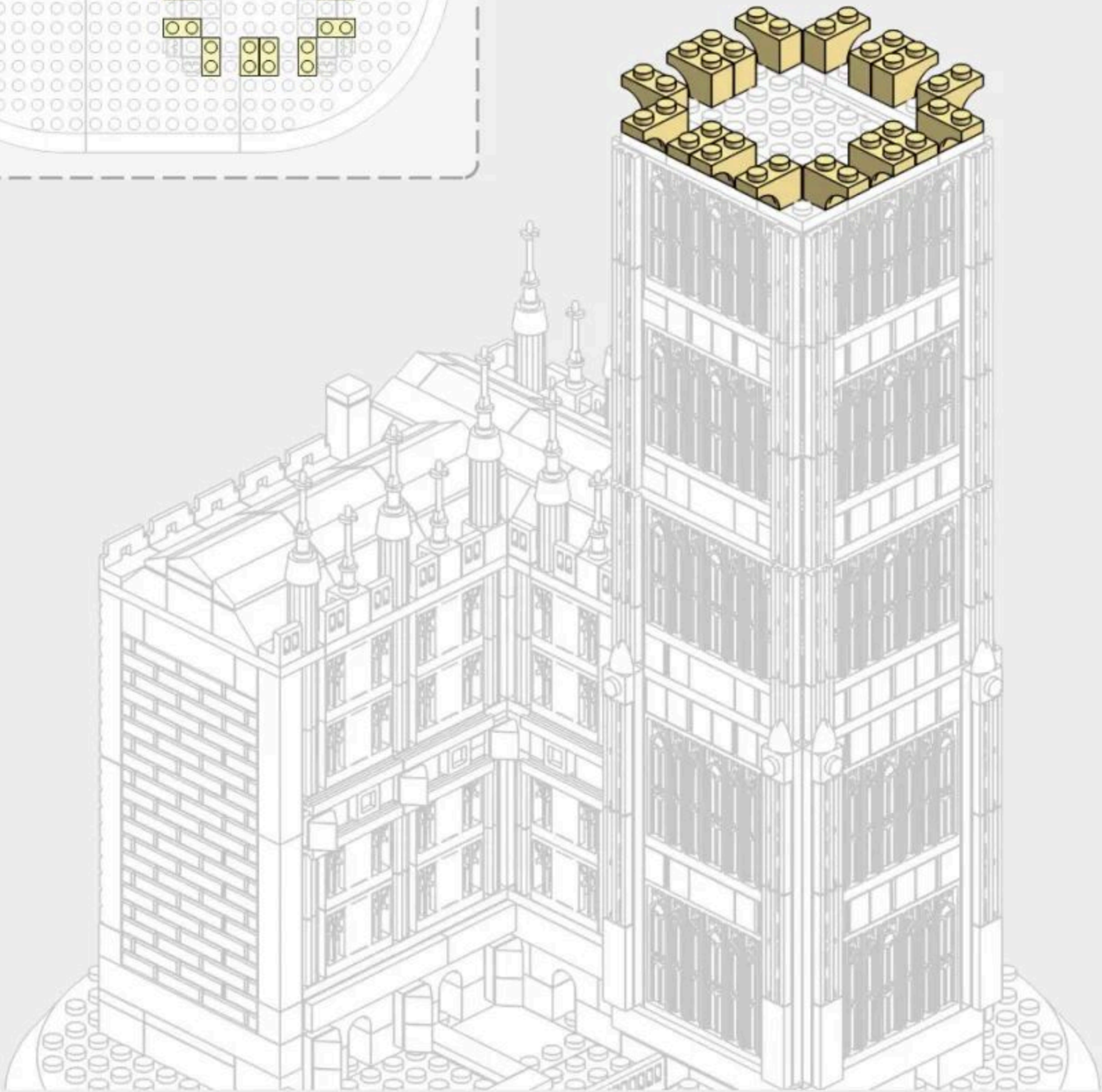
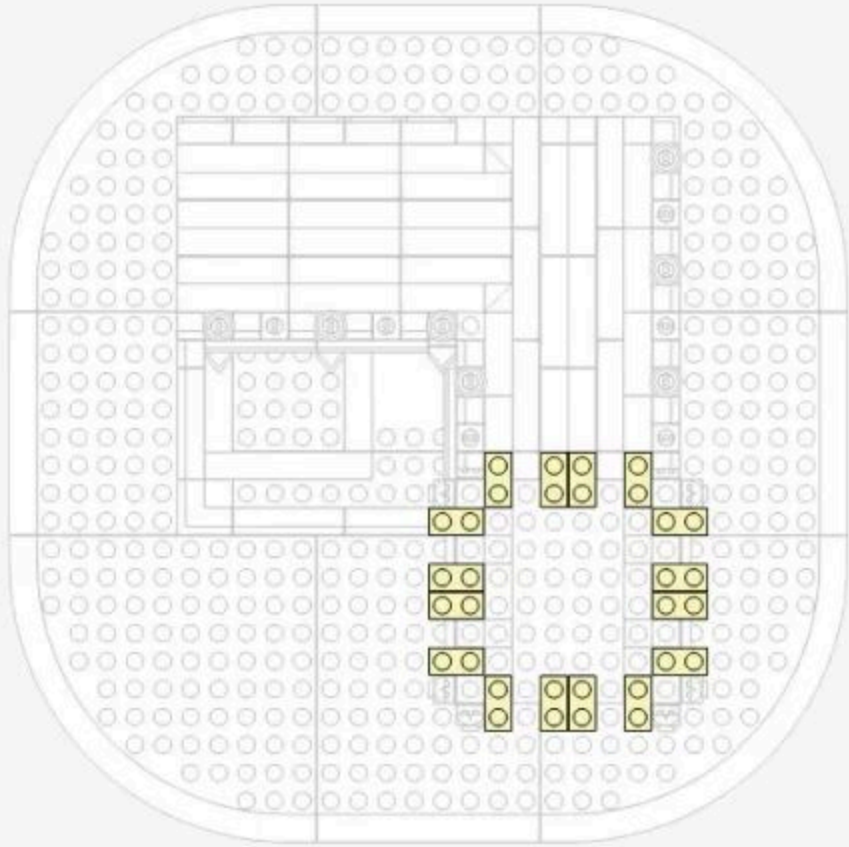
3-6



x16

Vertical View of Installation Drawing

安装图顶面



3-7



x8

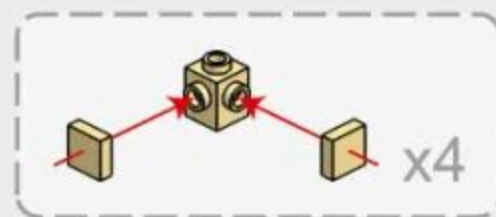
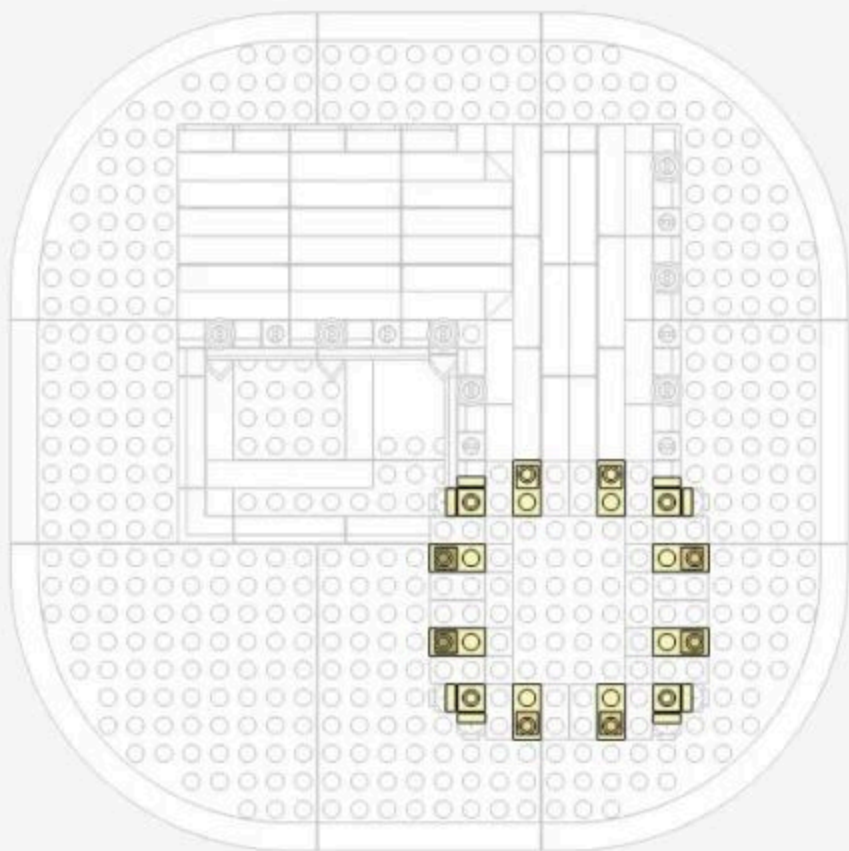


x4

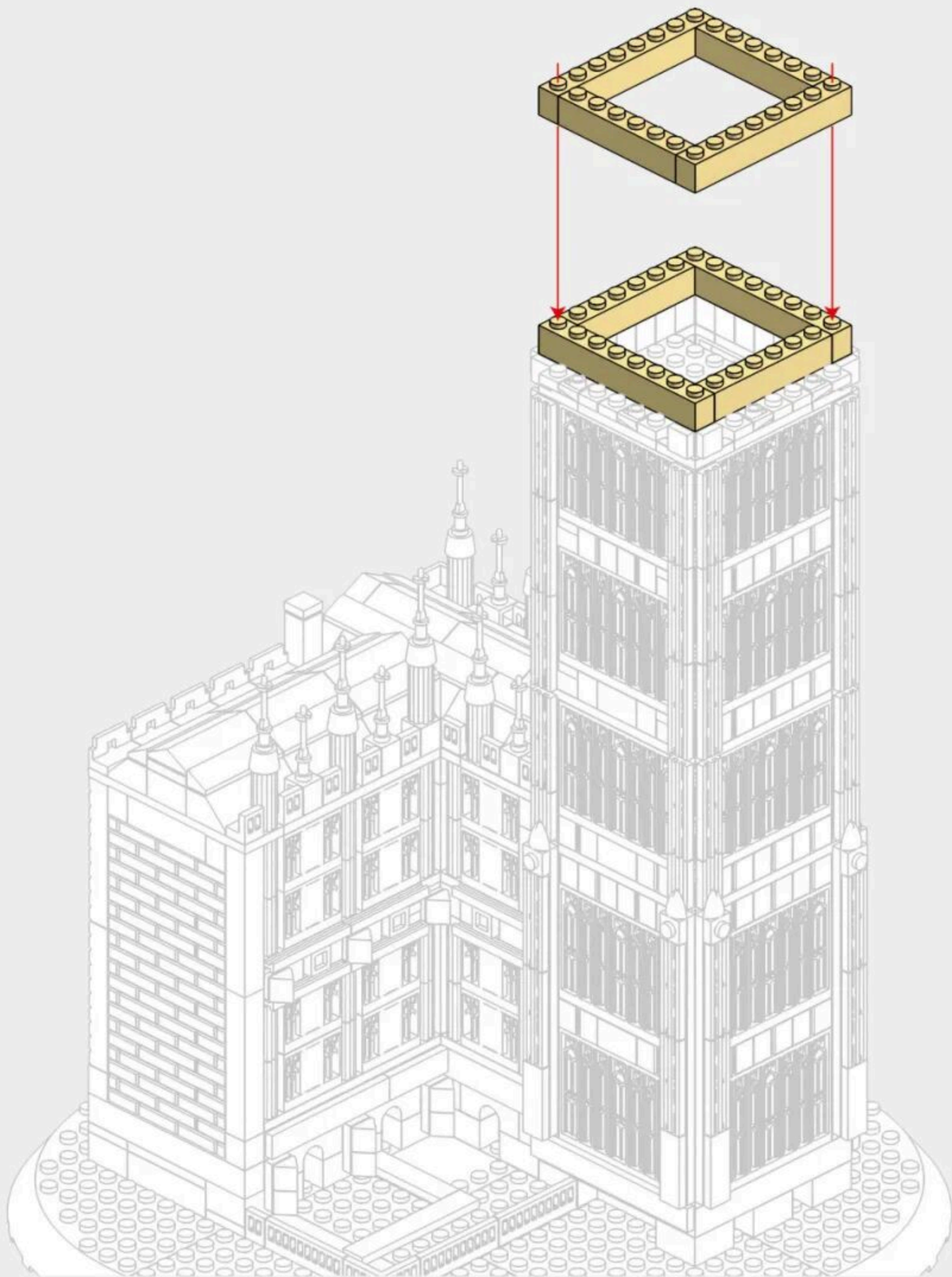
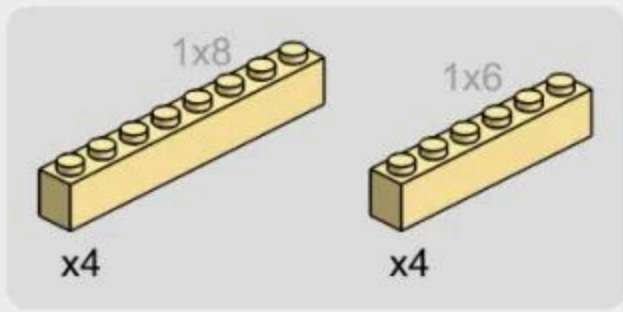


x8

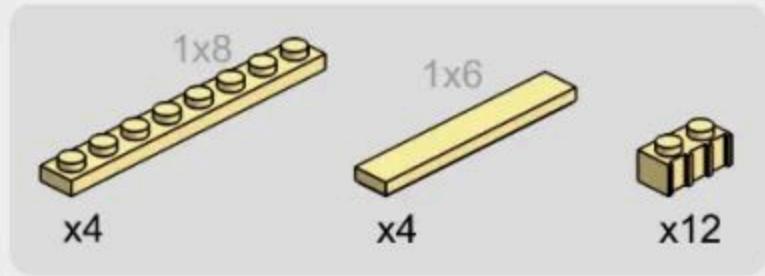
Vertical View of Installation Drawing
安装图顶面



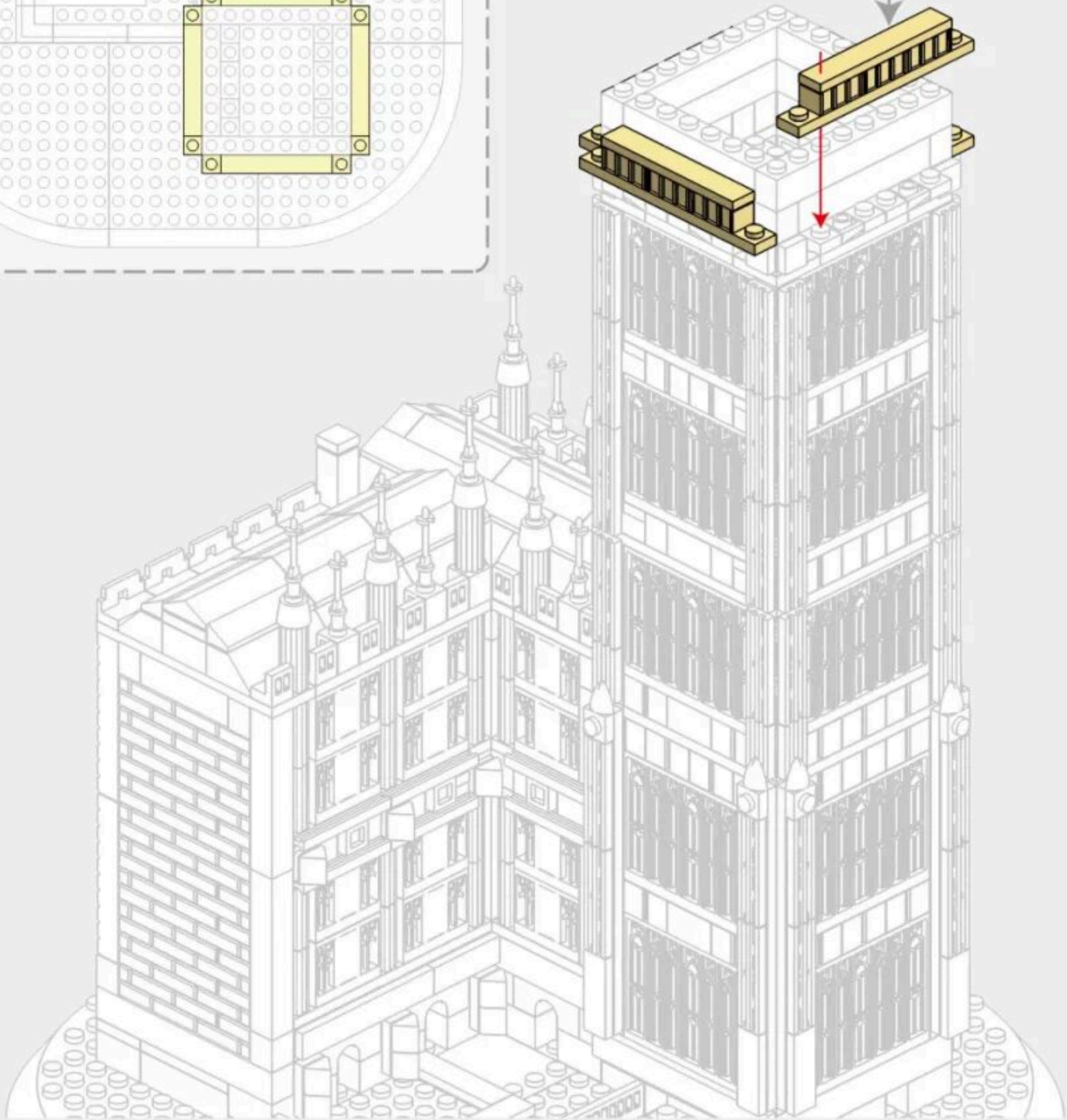
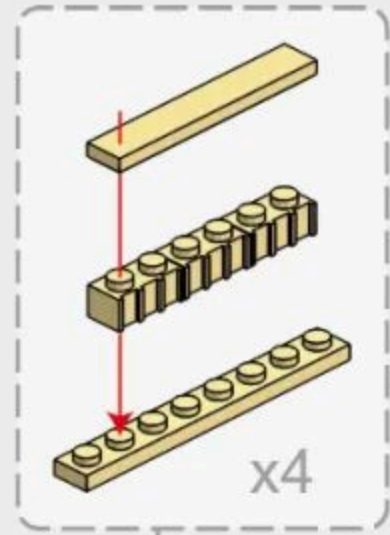
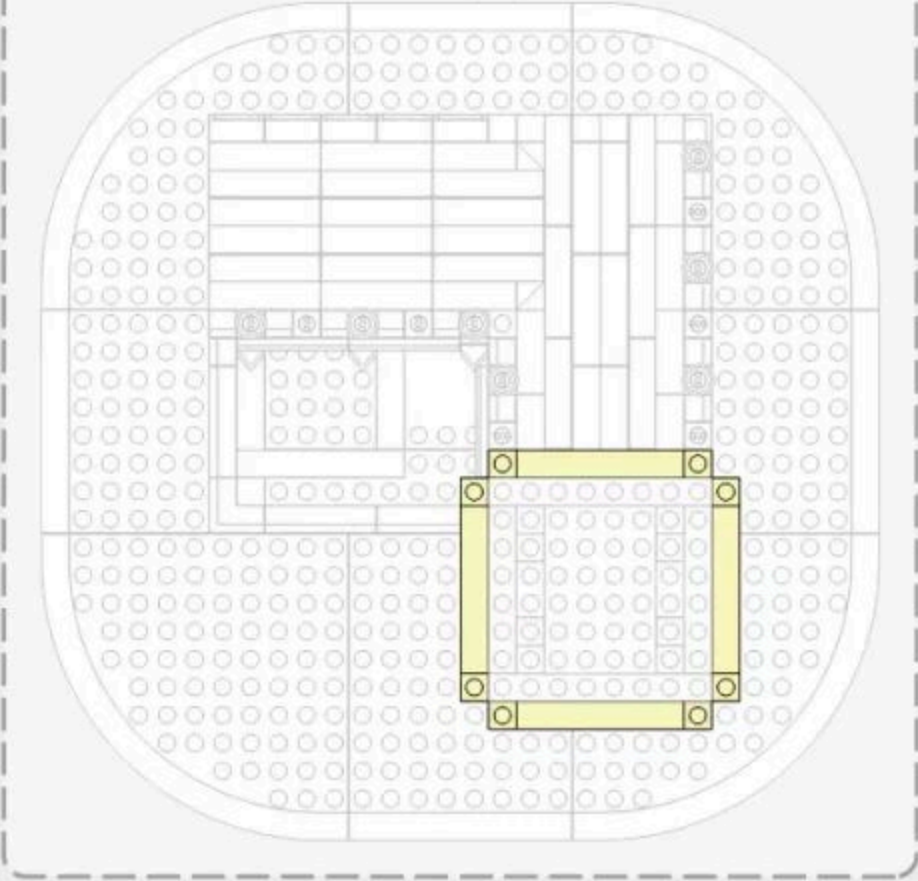
3-8



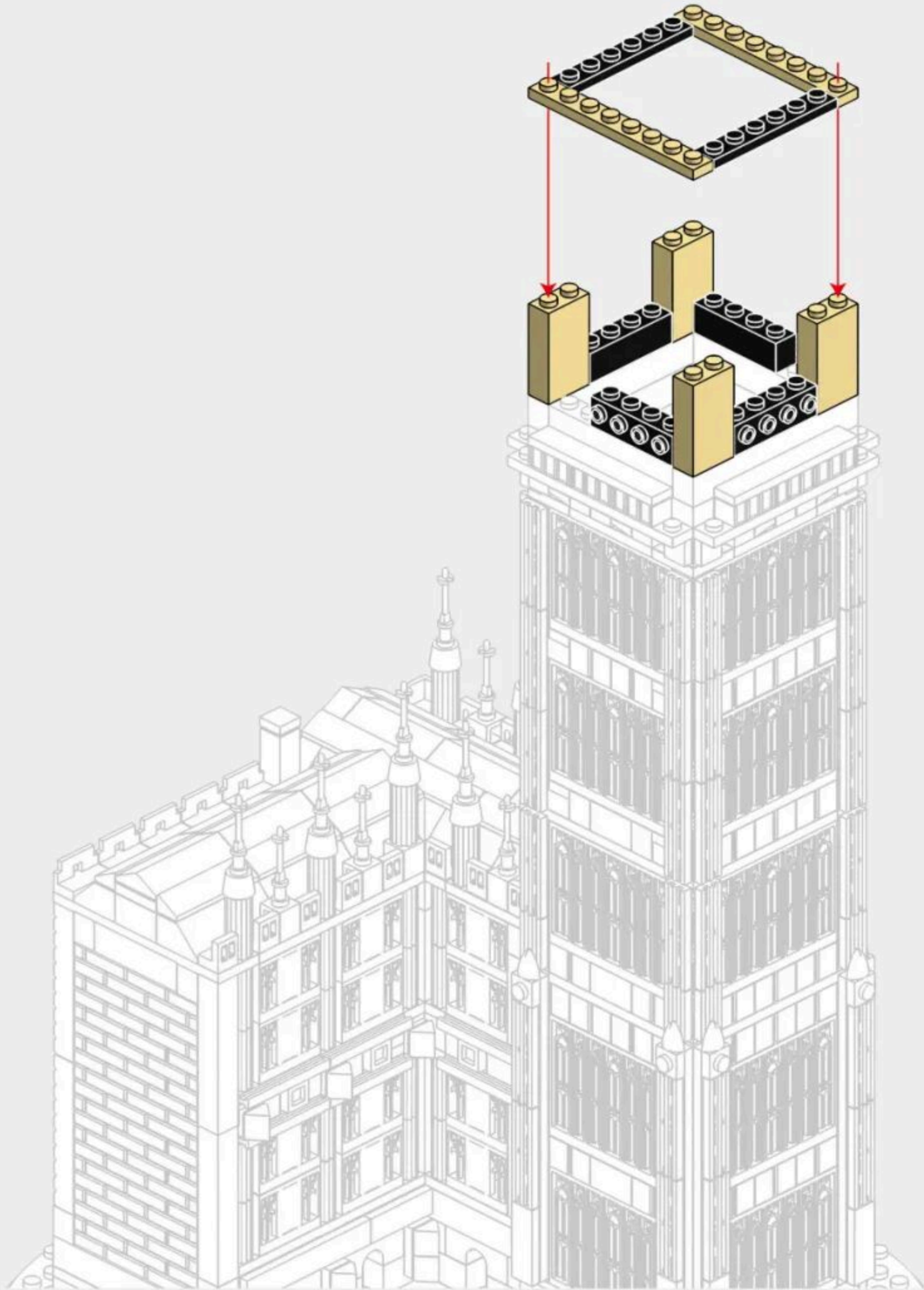
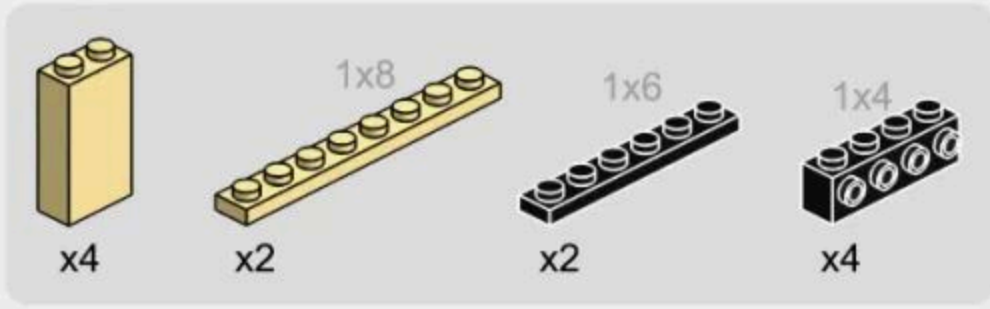
3-9



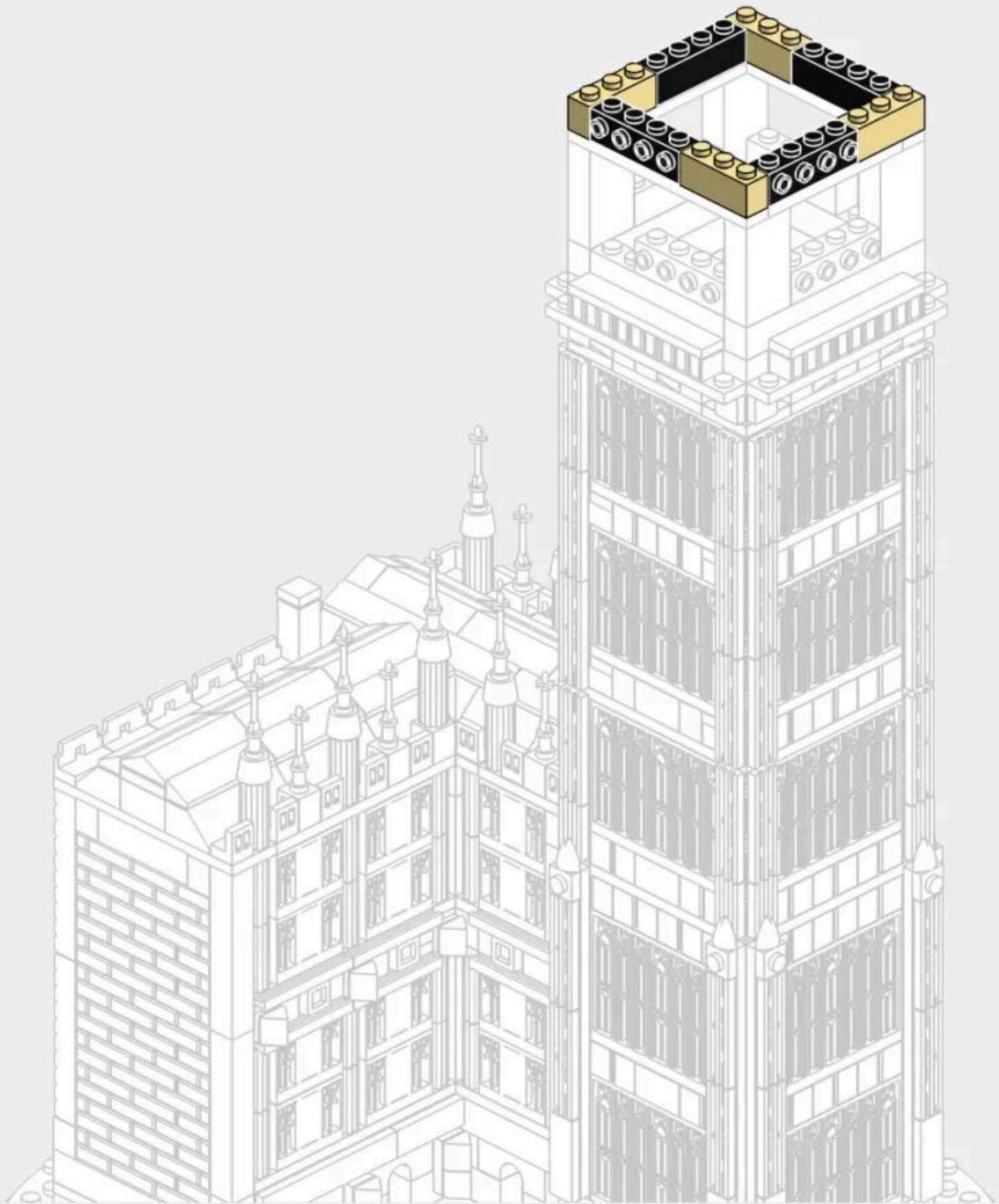
Vertical View of Installation Drawing
安装图顶面



3-10

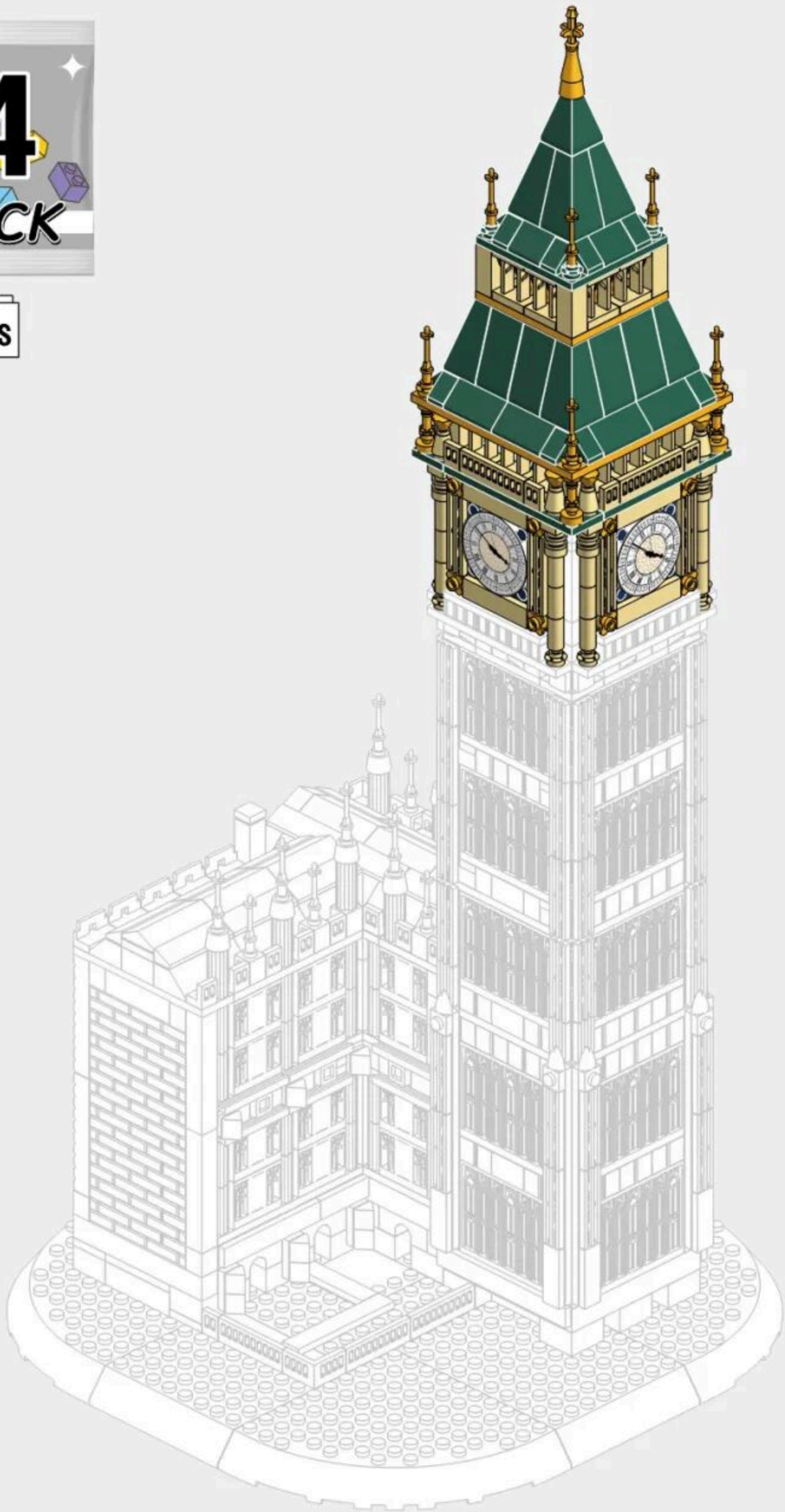


3-11

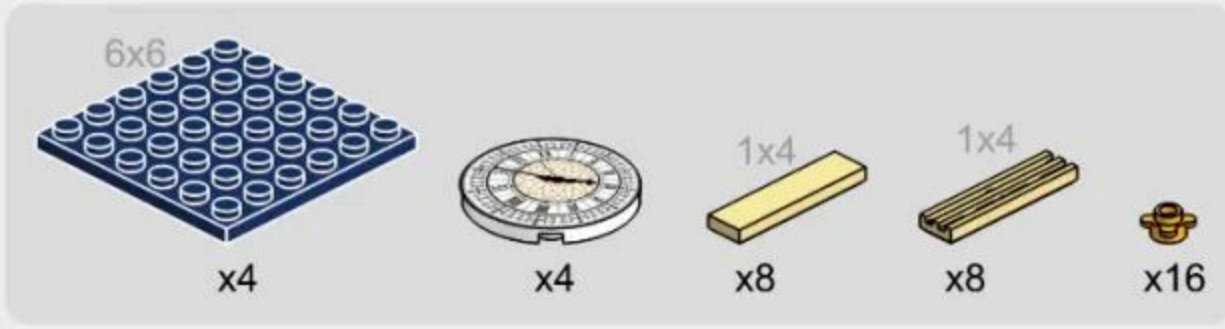




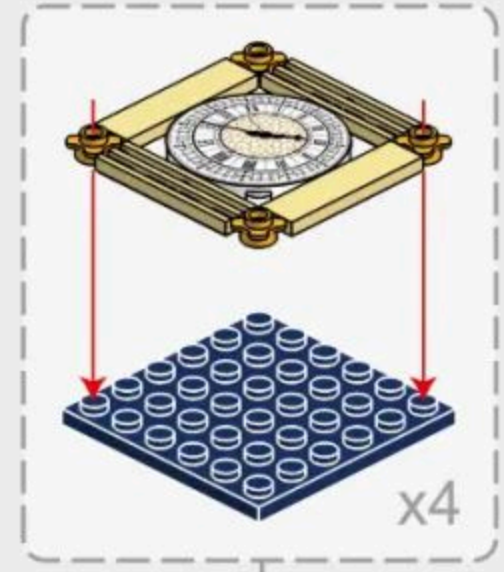
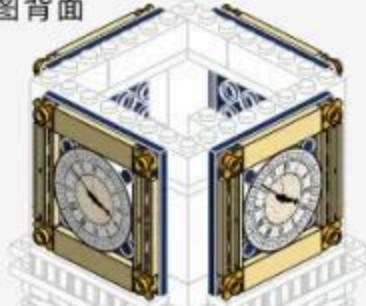
242PCS



4-1



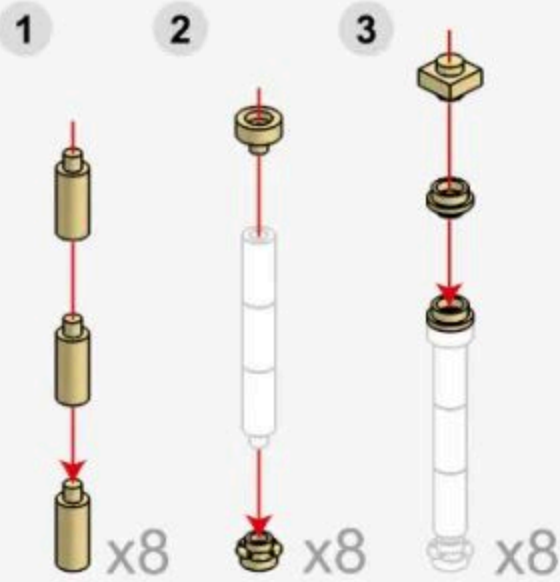
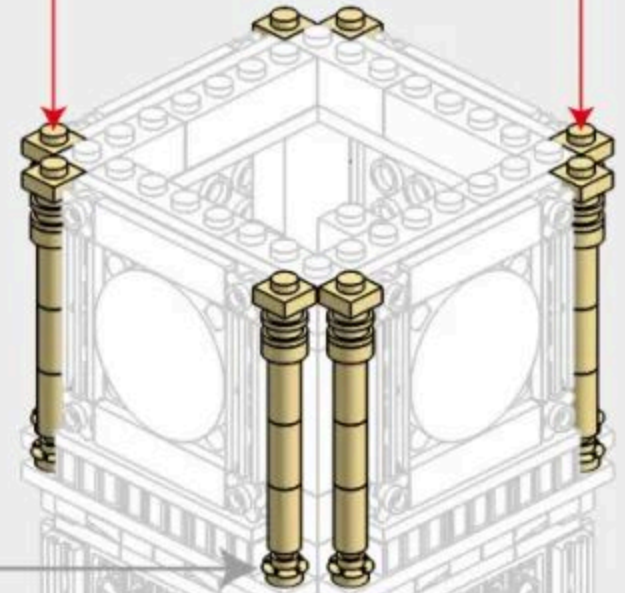
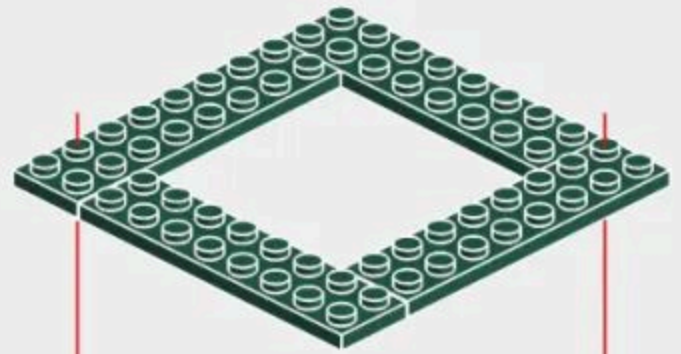
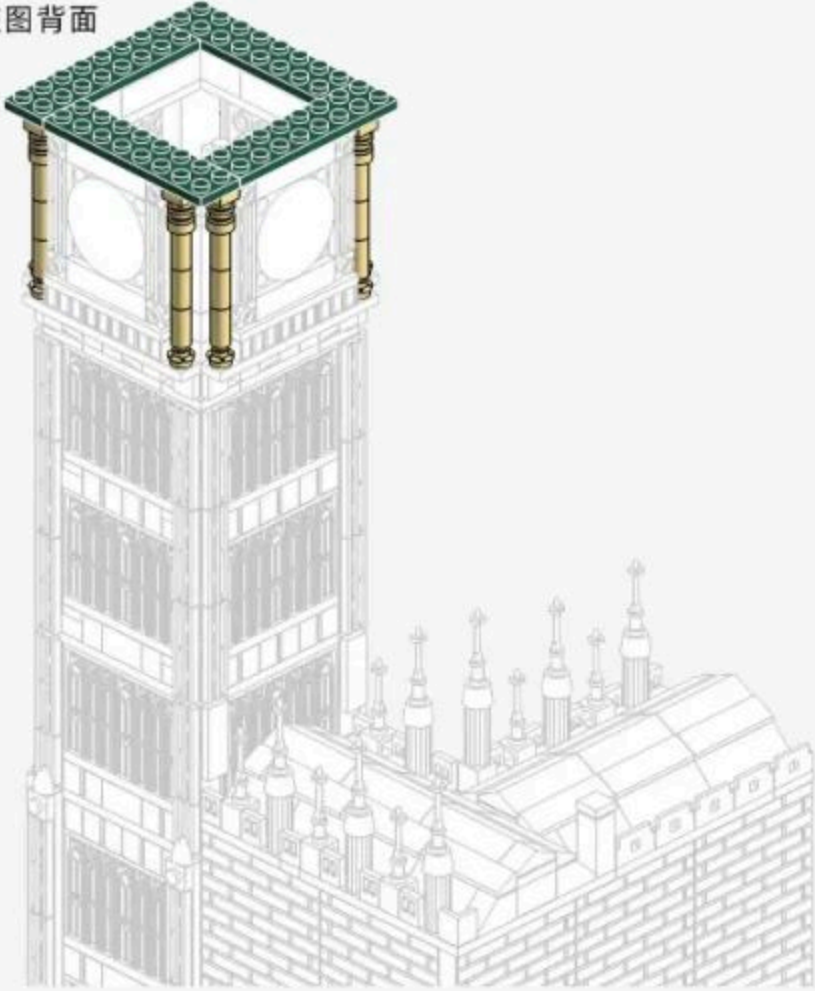
The Back of Installation Drawing
安装图背面



4-2



The Back of Installation Drawing
安装图背面



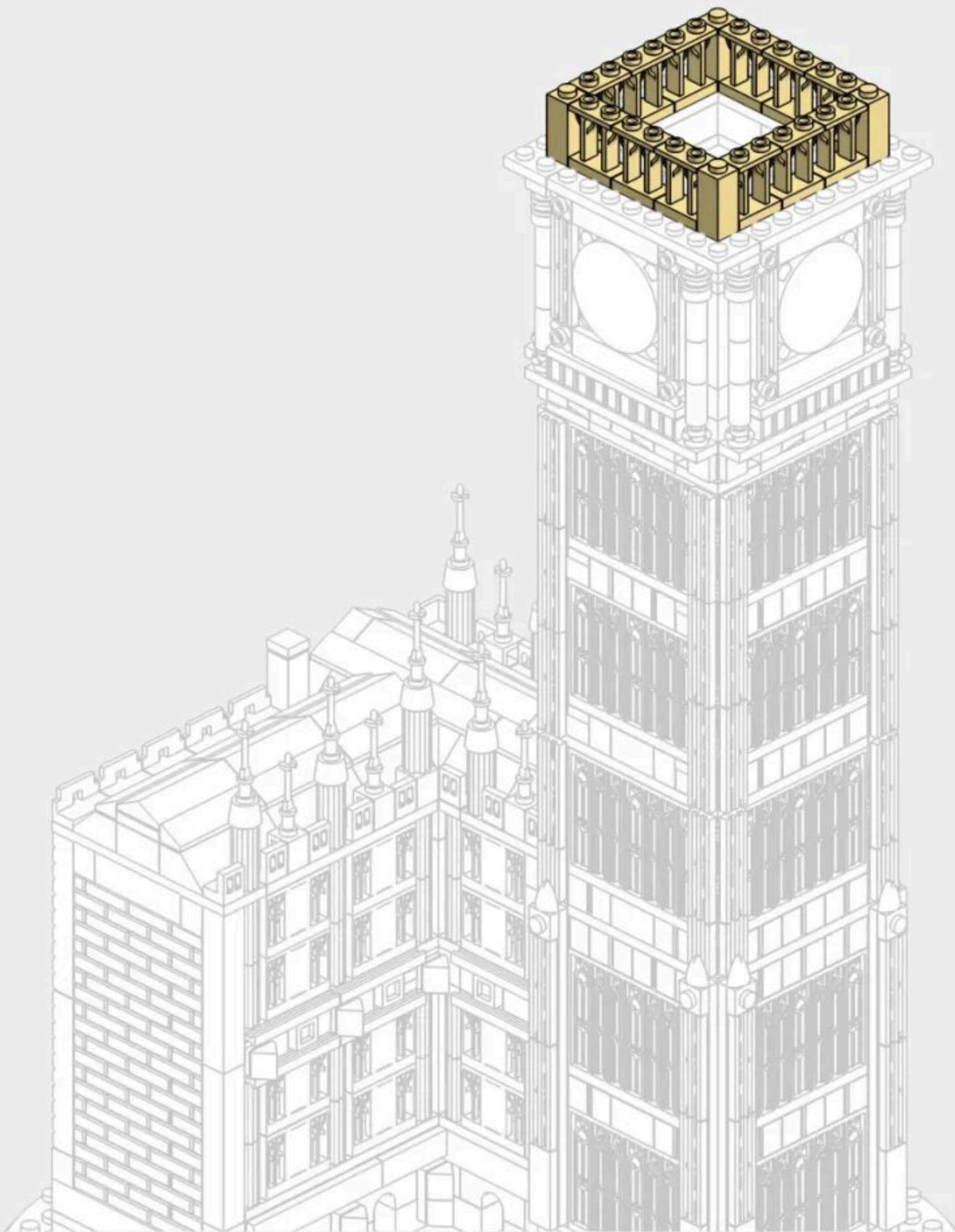
4-3



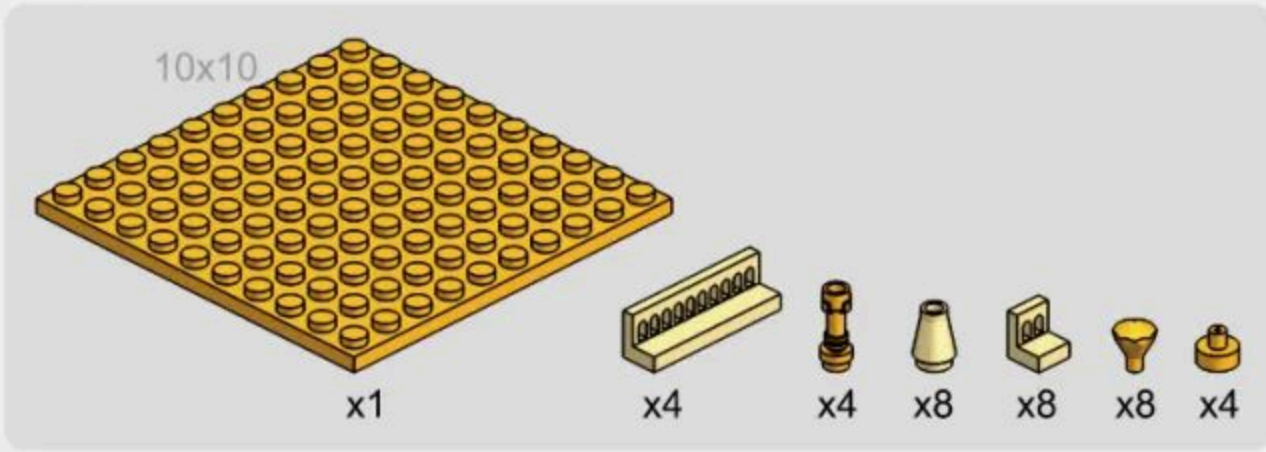
x12



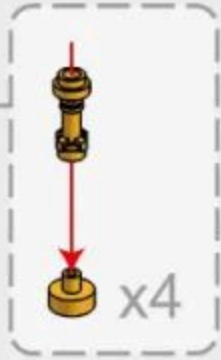
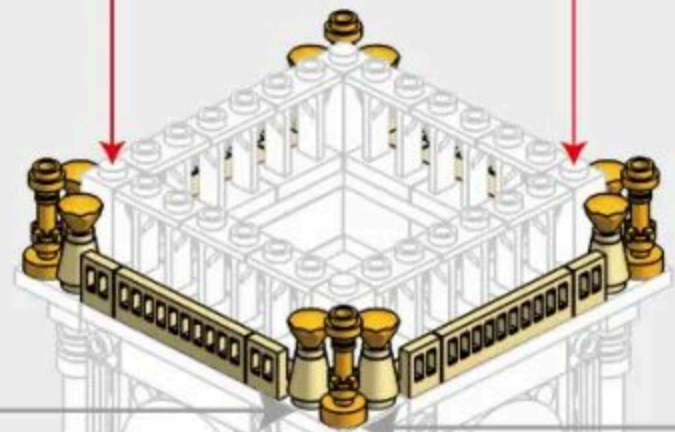
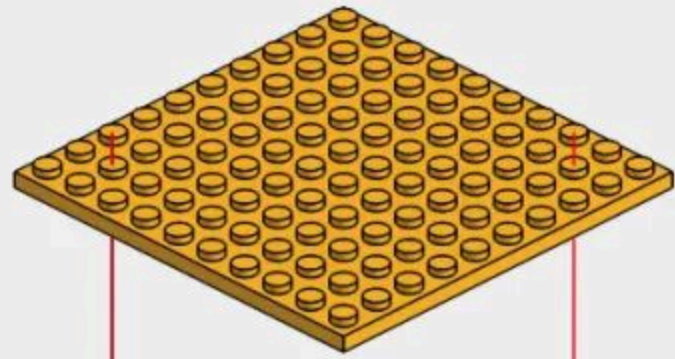
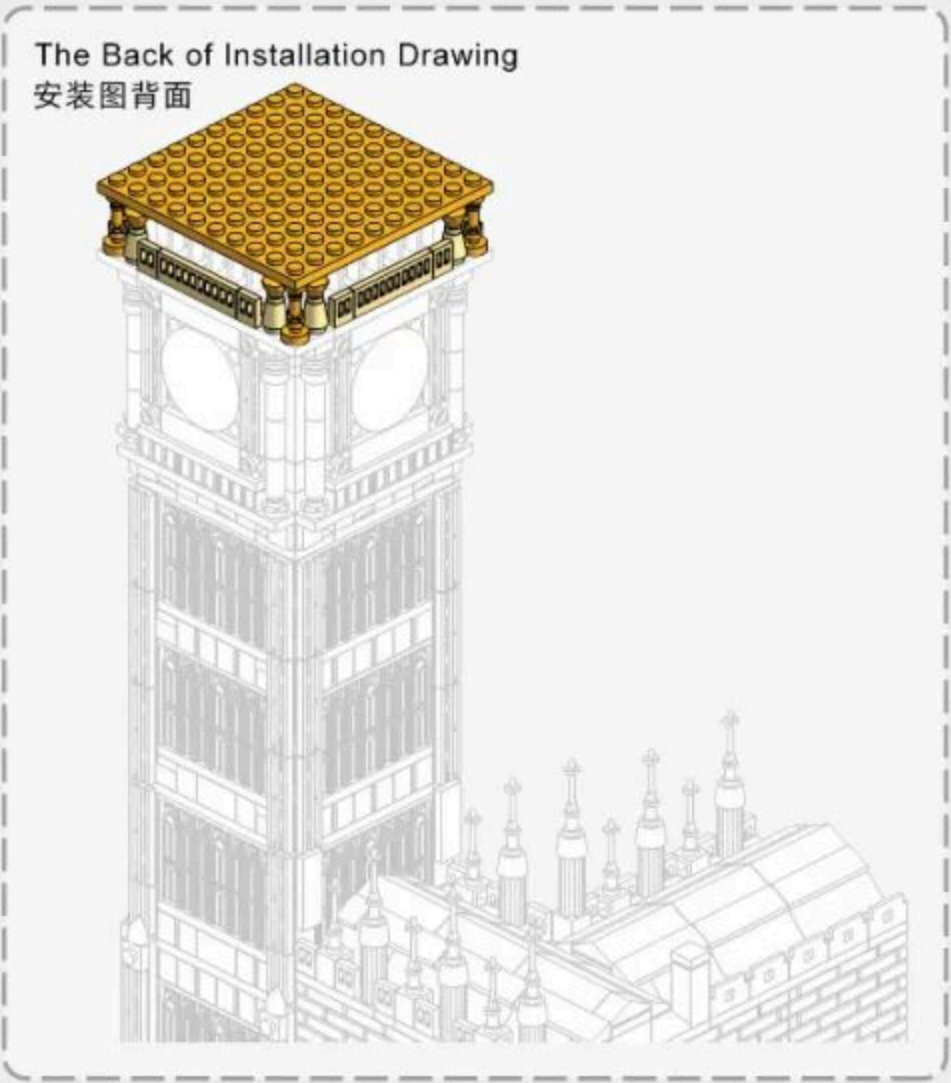
x4



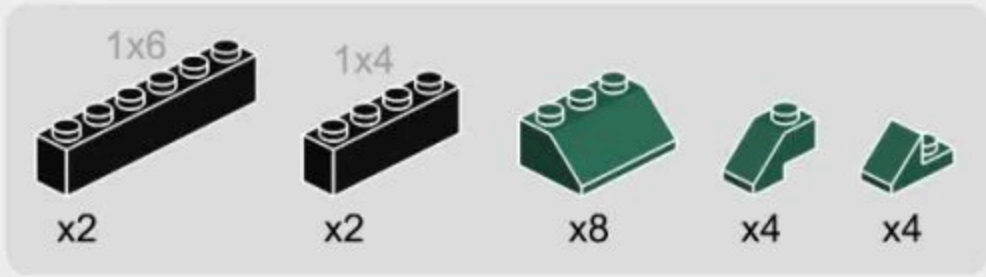
4-4



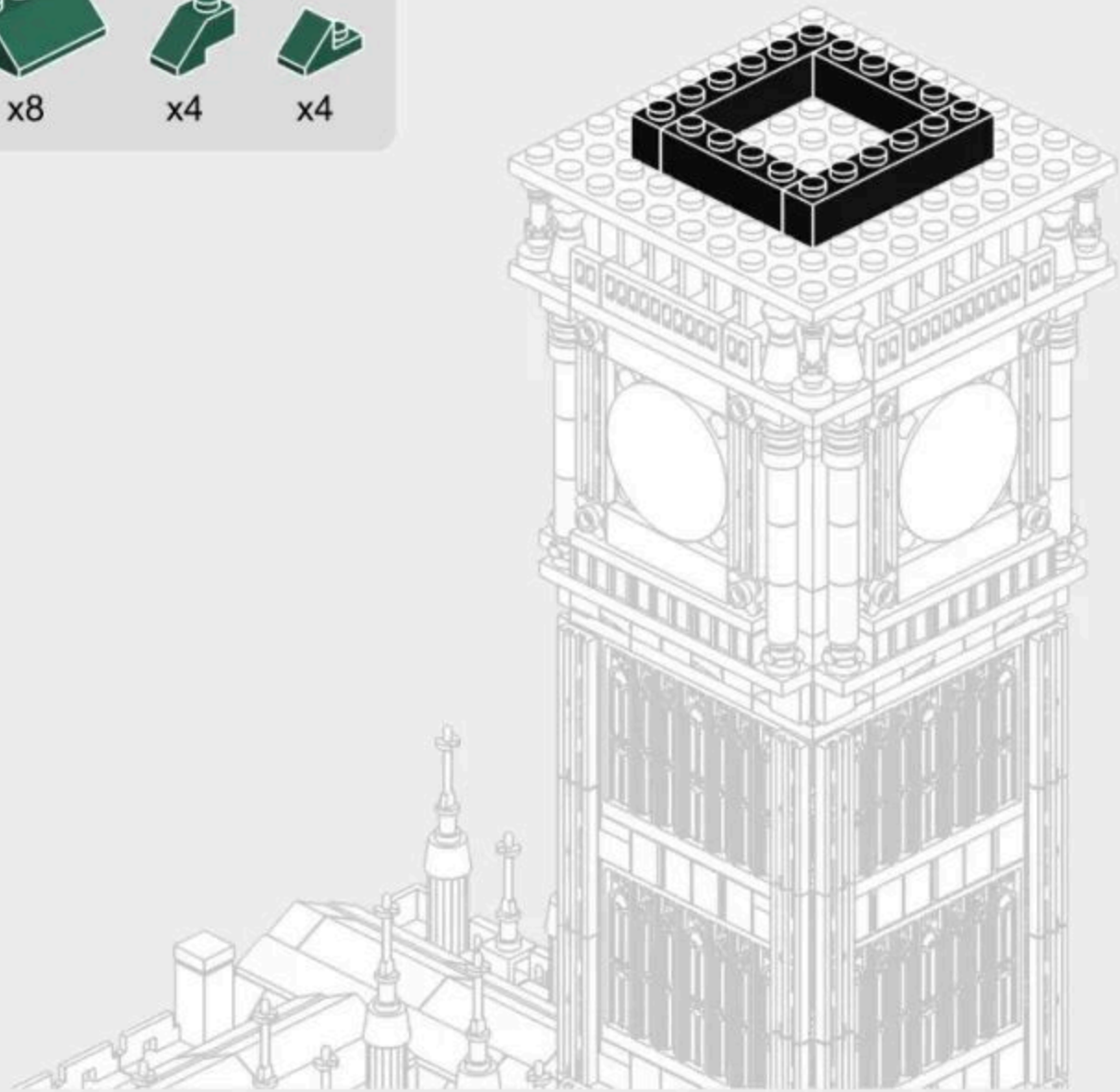
The Back of Installation Drawing
安装图背面



4-5

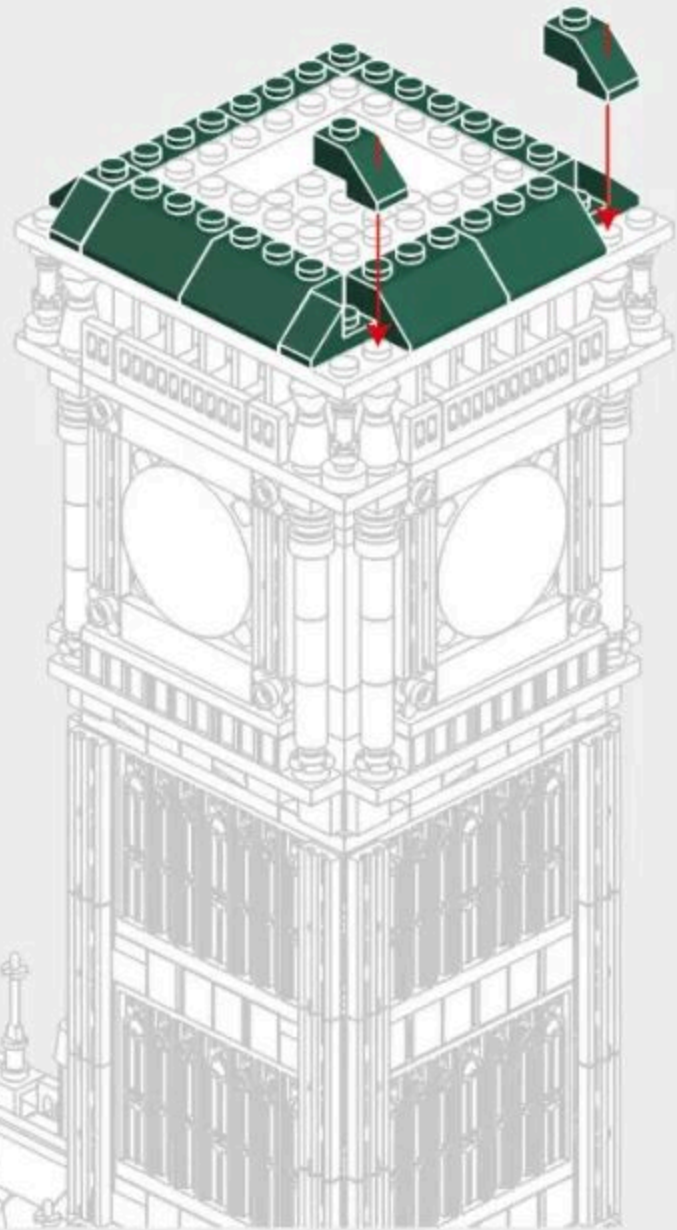
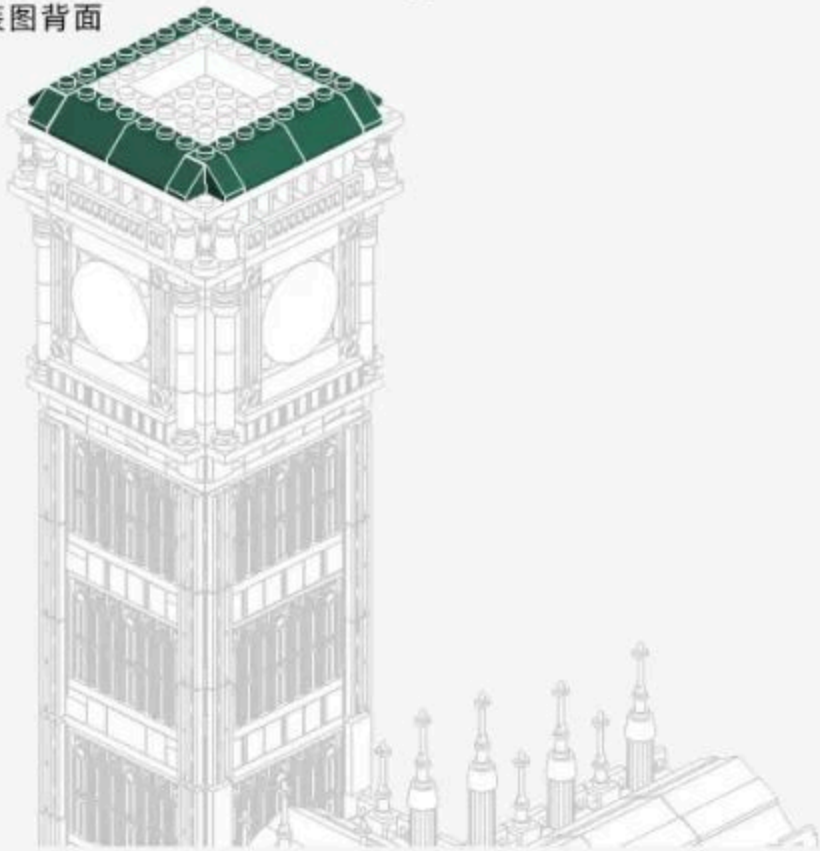


1

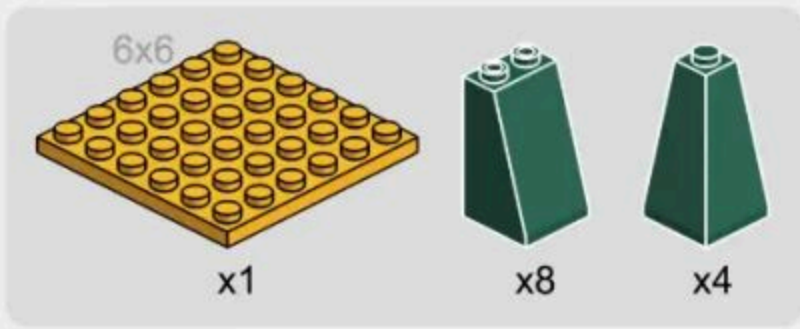


2

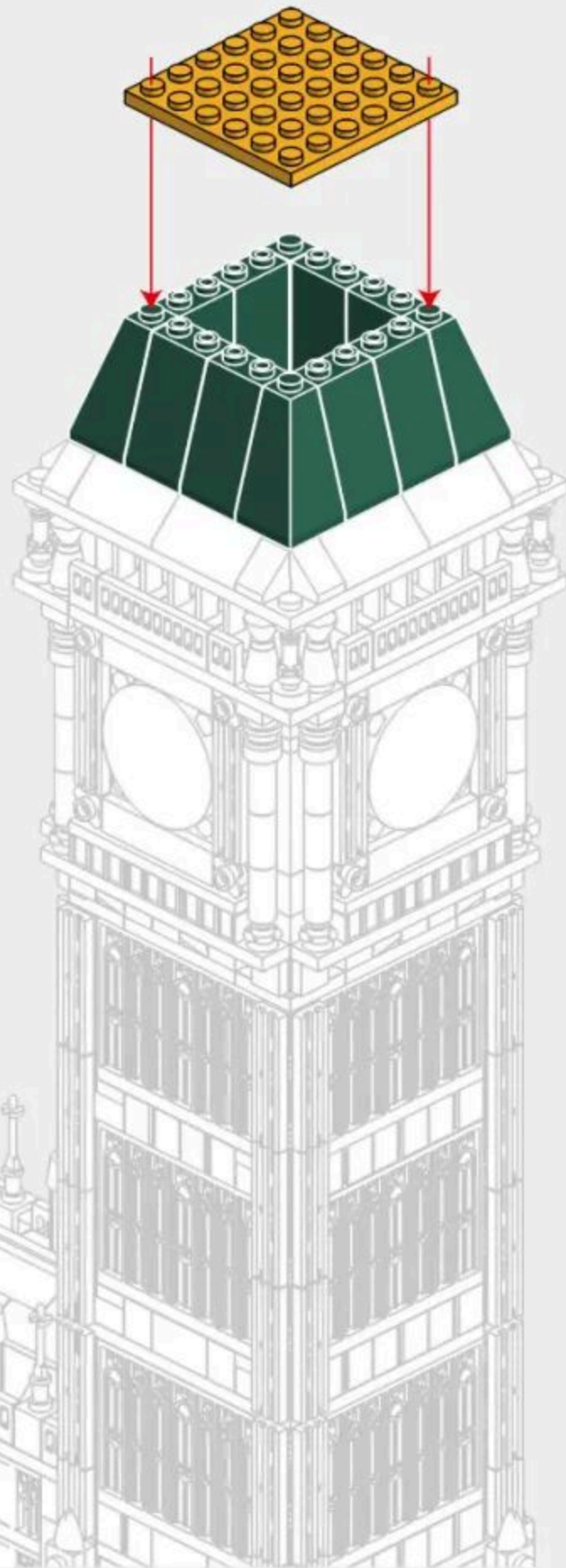
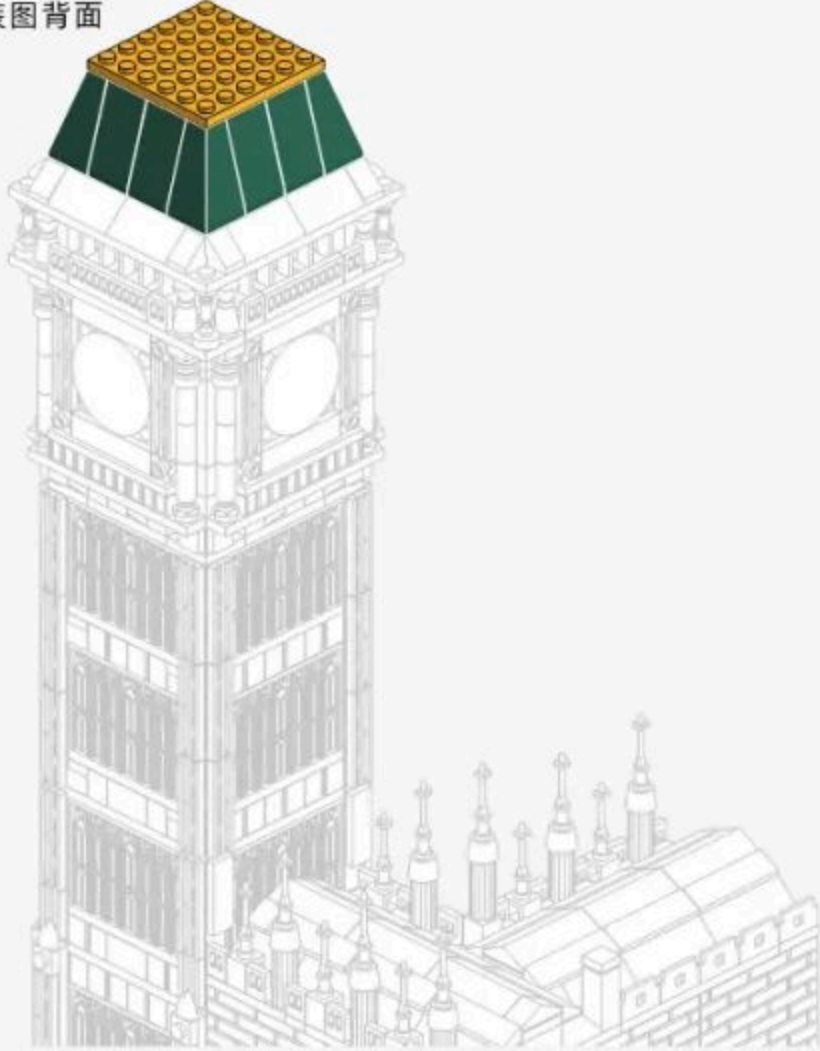
The Back of Installation Drawing
安装图背面



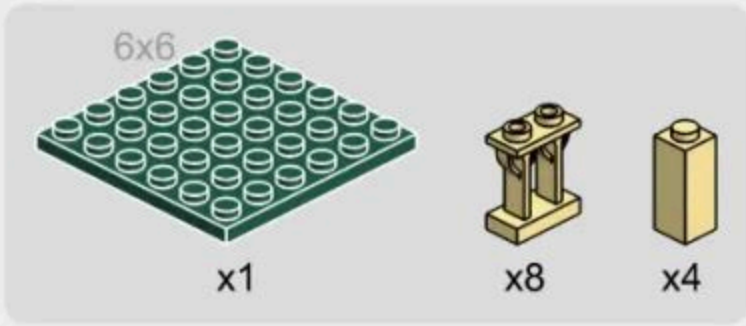
4-6



The Back of Installation Drawing
安装图背面



4-7



4-8



x4

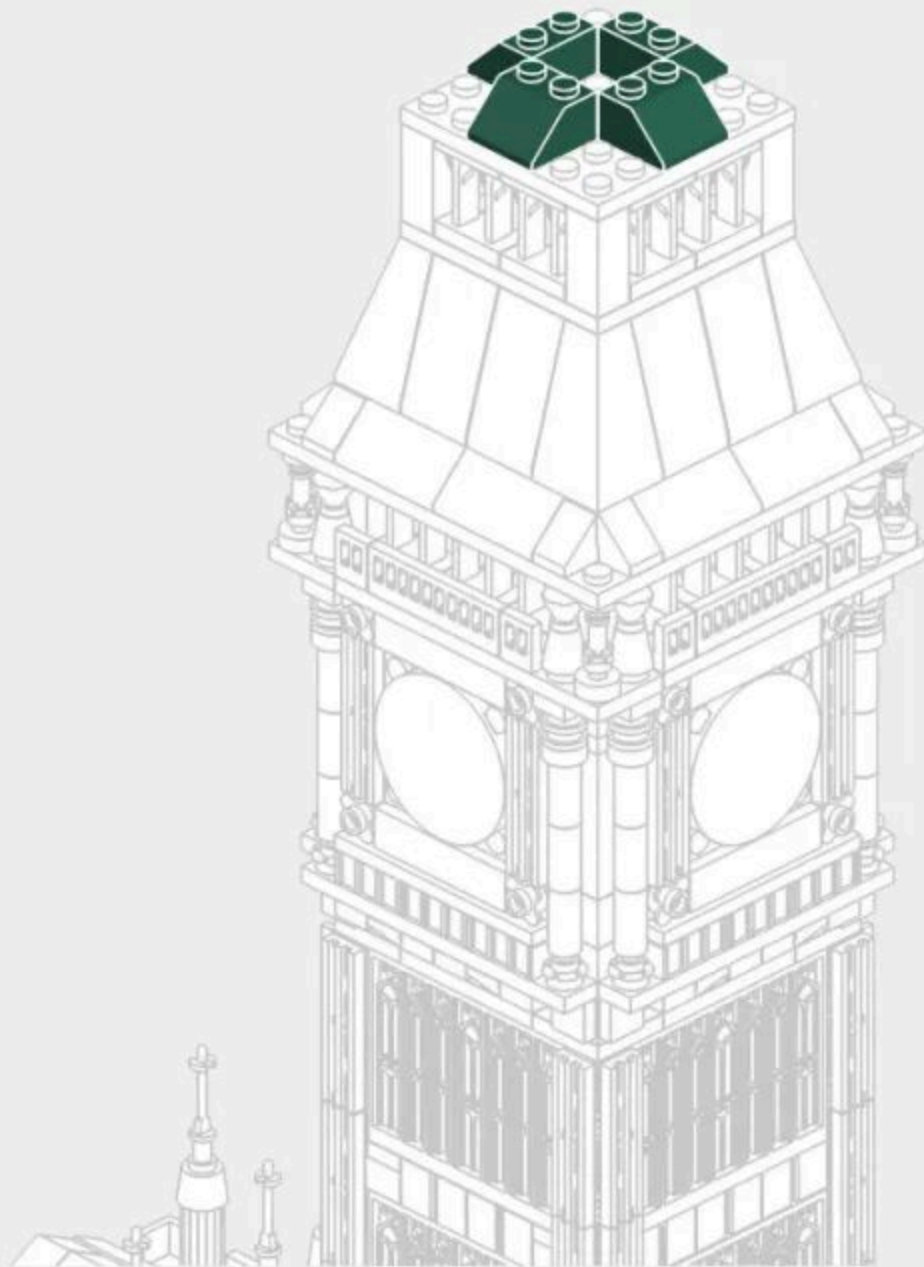


x4



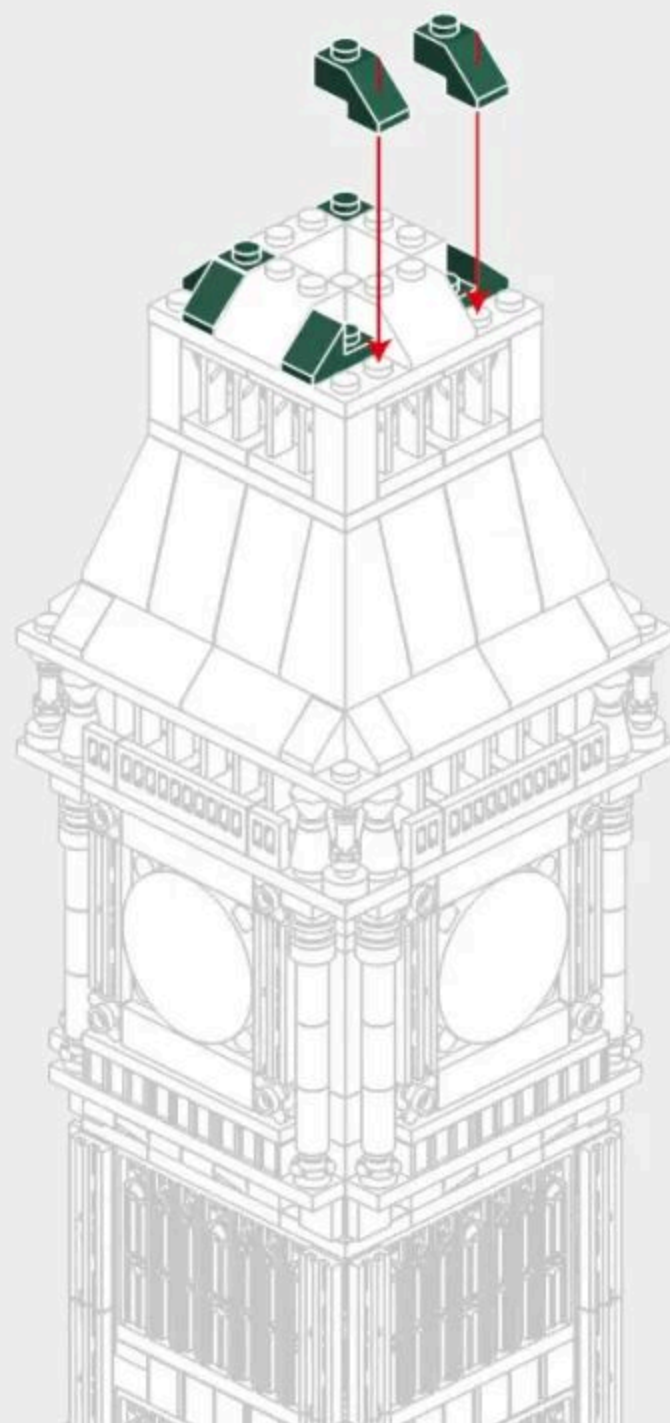
x4

1

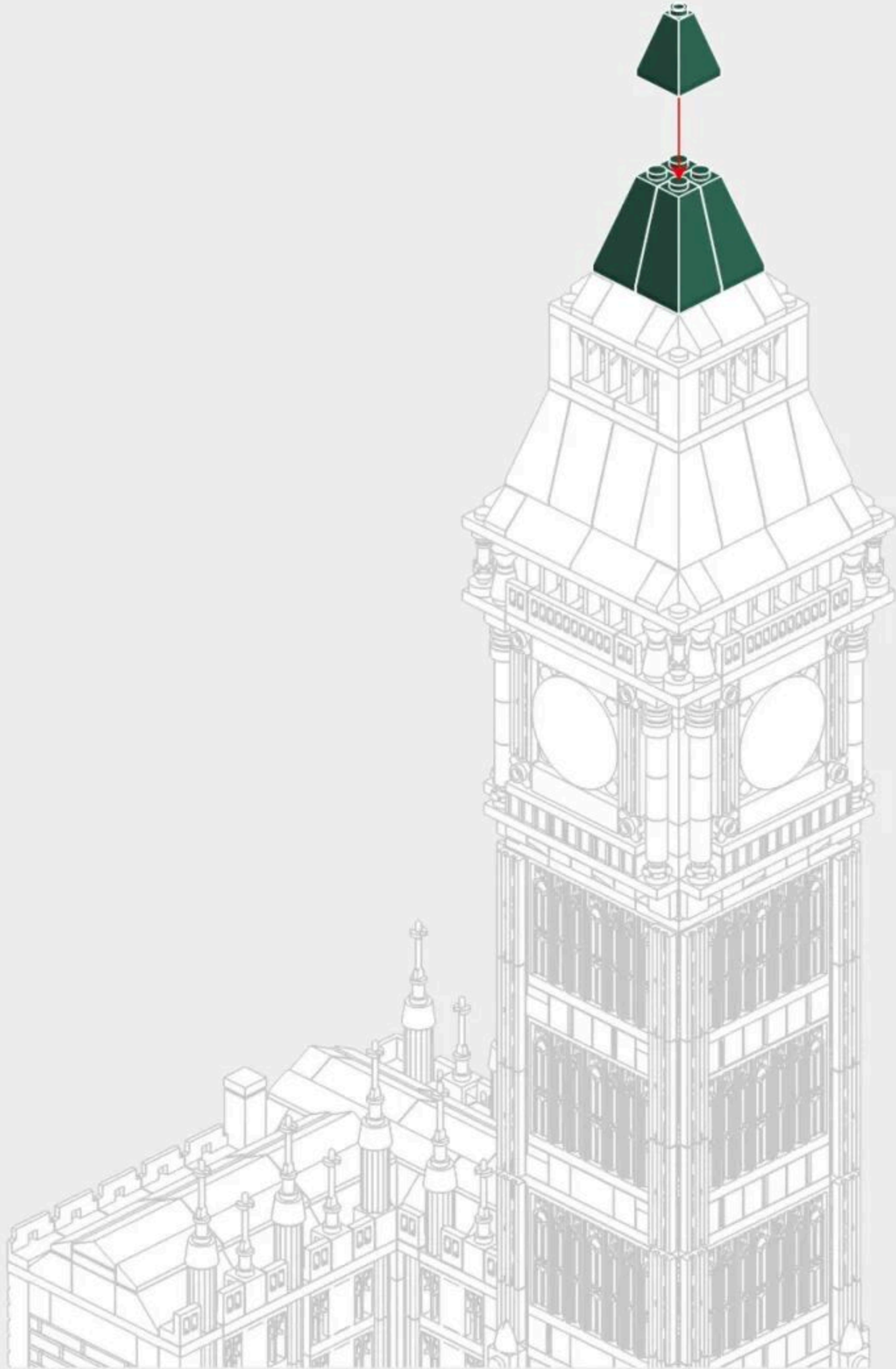


2

The Back of Installation Drawing
安装图背面



4-9



4-10



x1



x8



x1

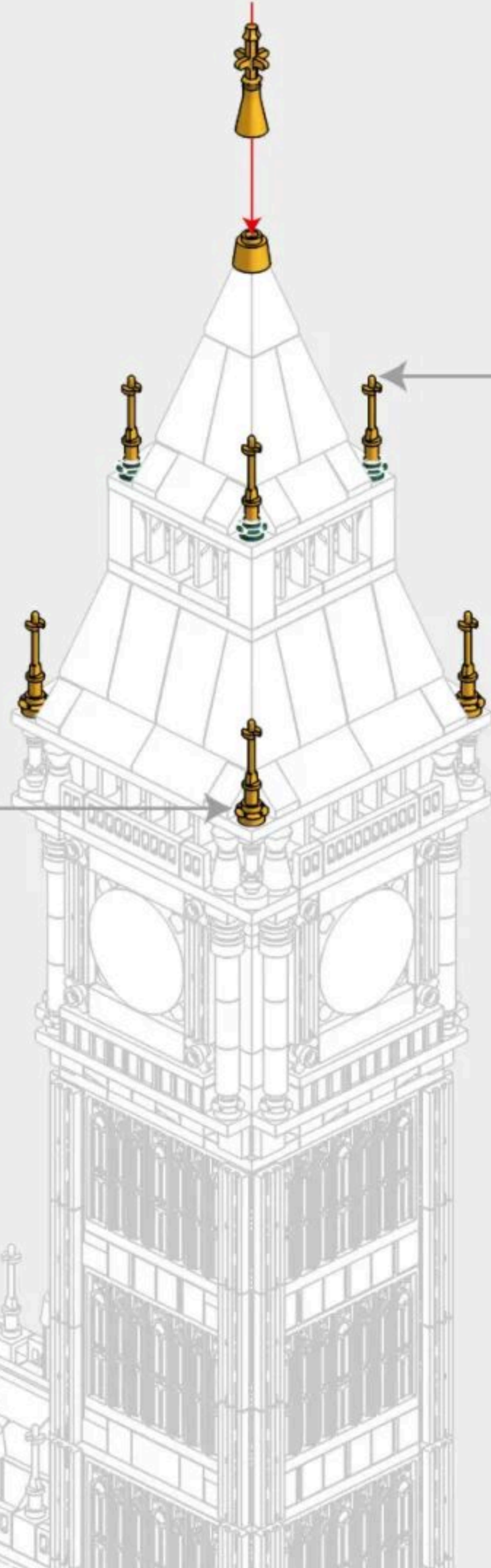
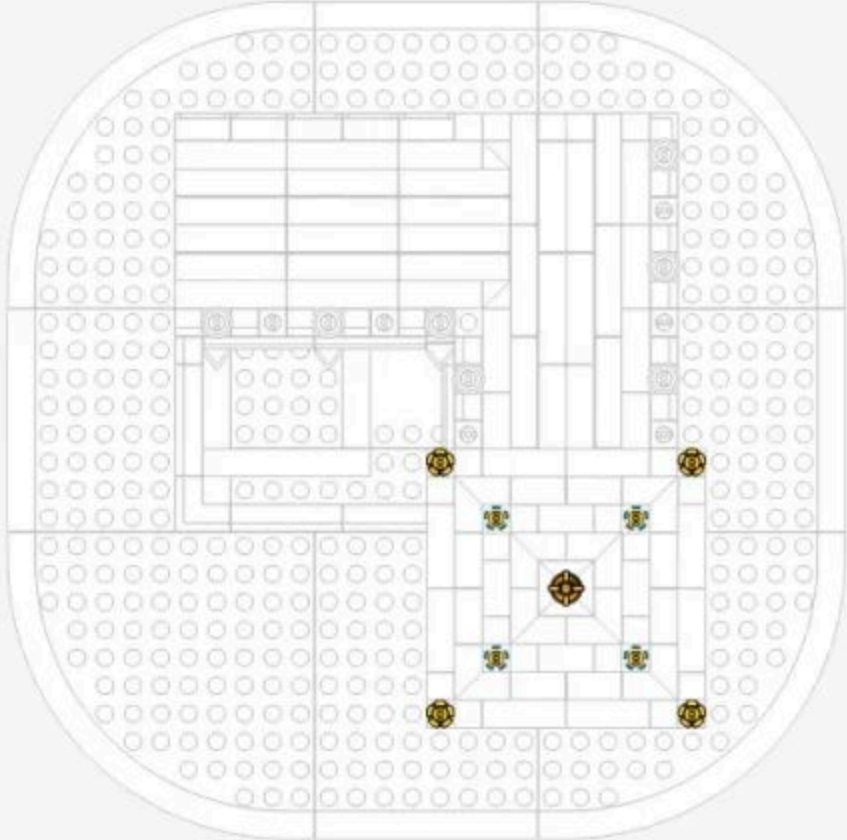


x4



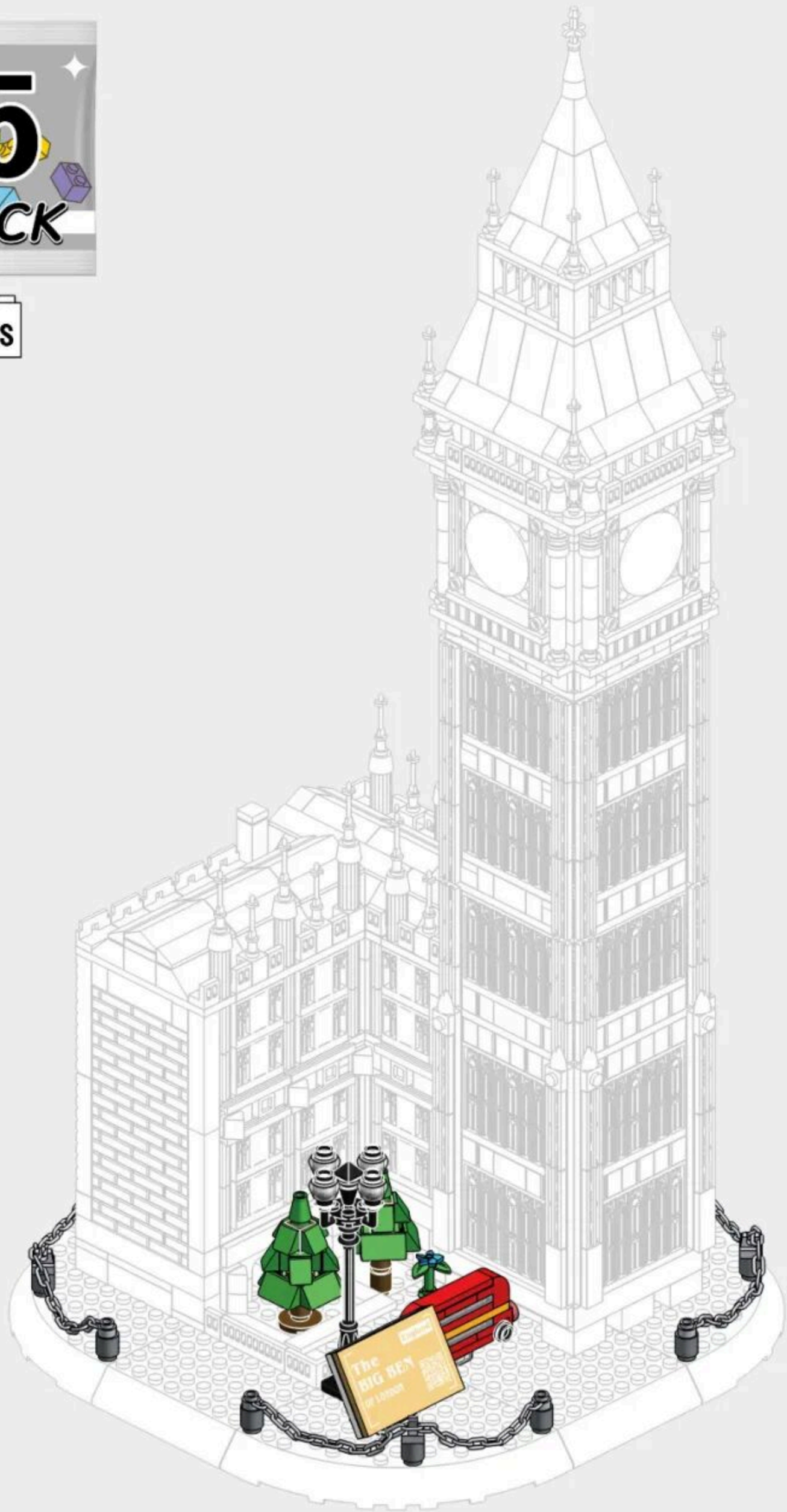
x4

Vertical View of Installation Drawing
安装图顶面



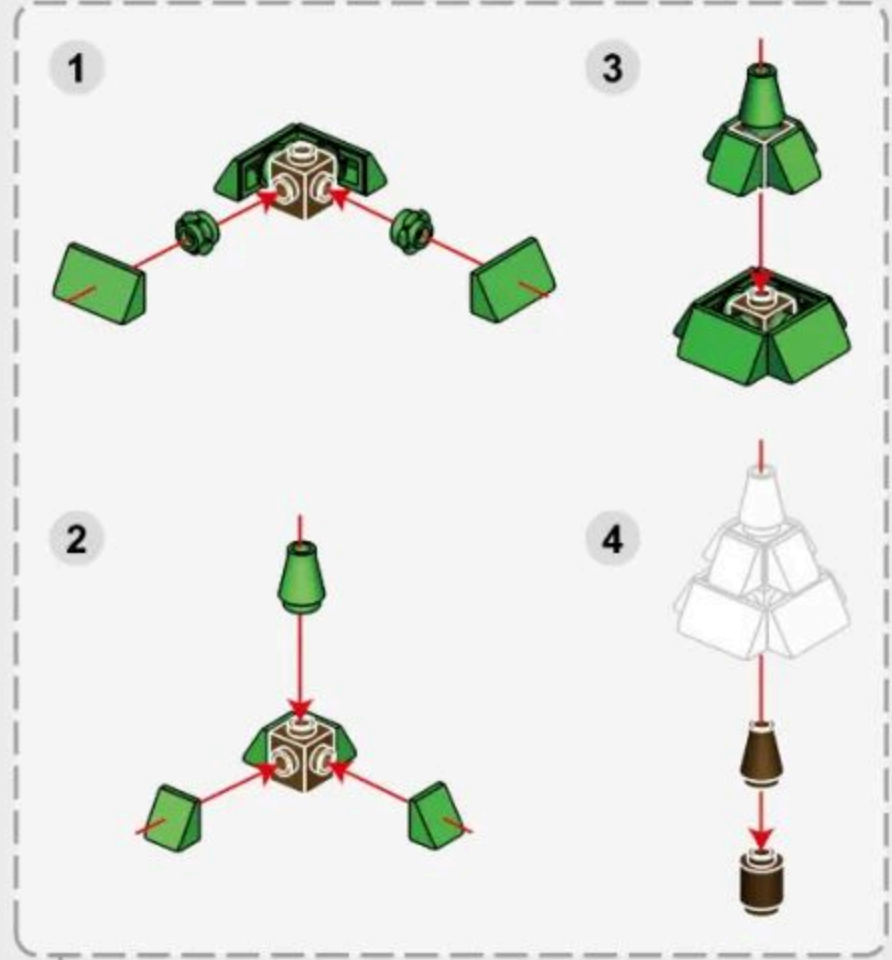
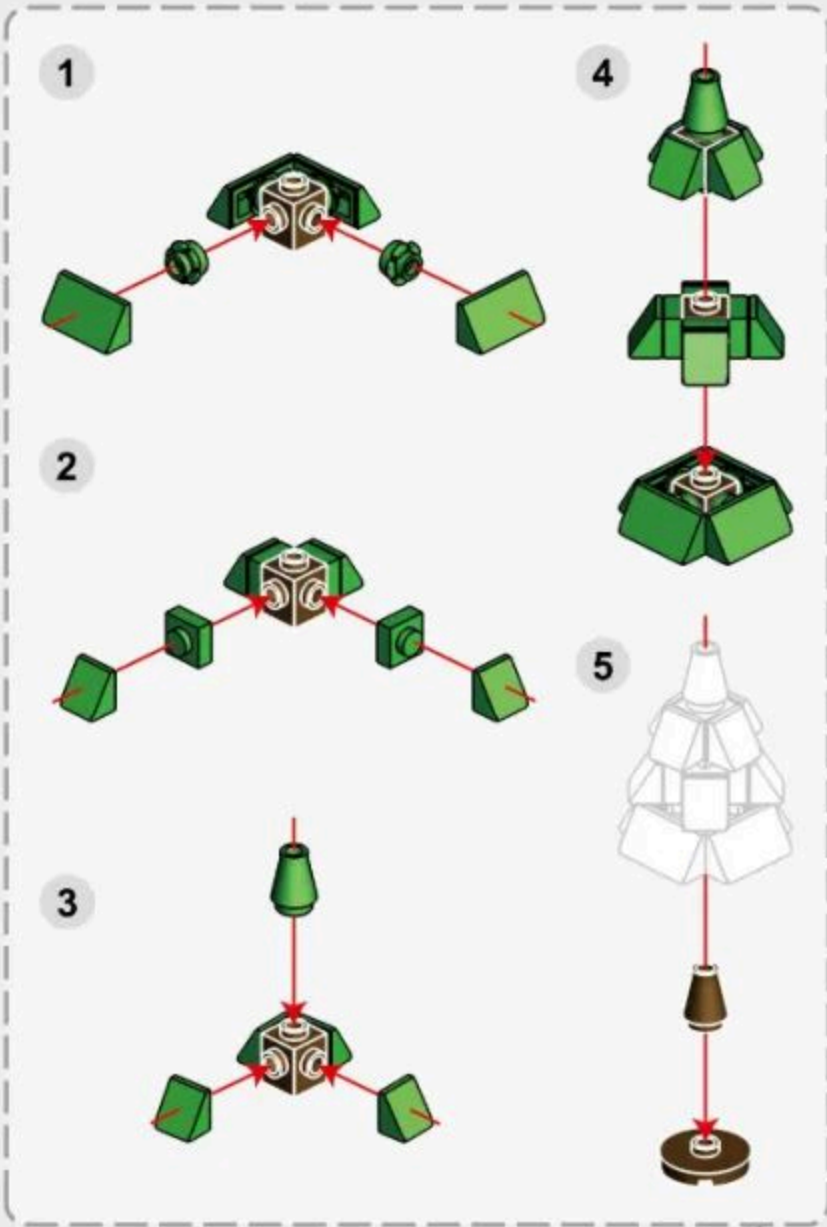


107 PCS

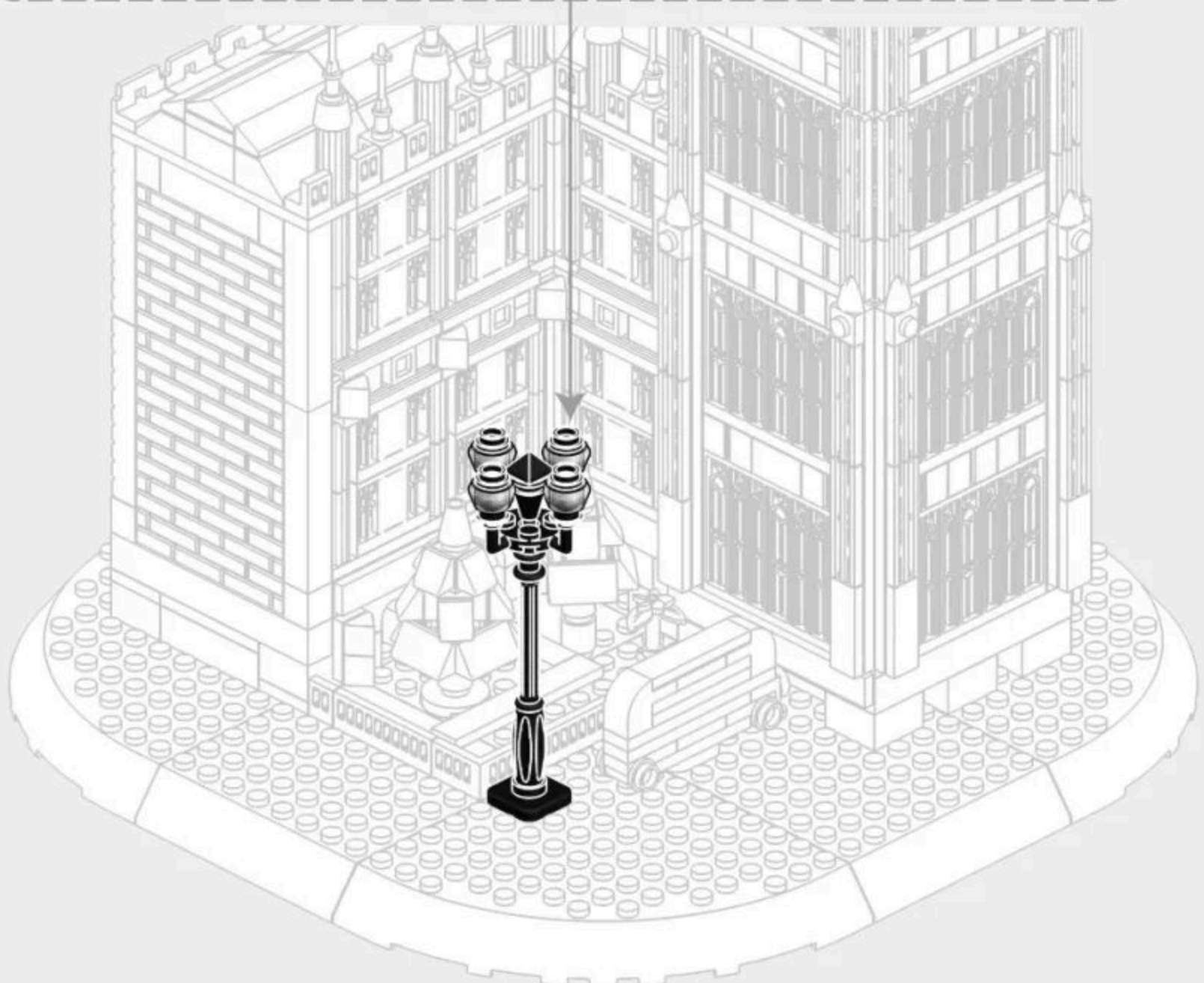
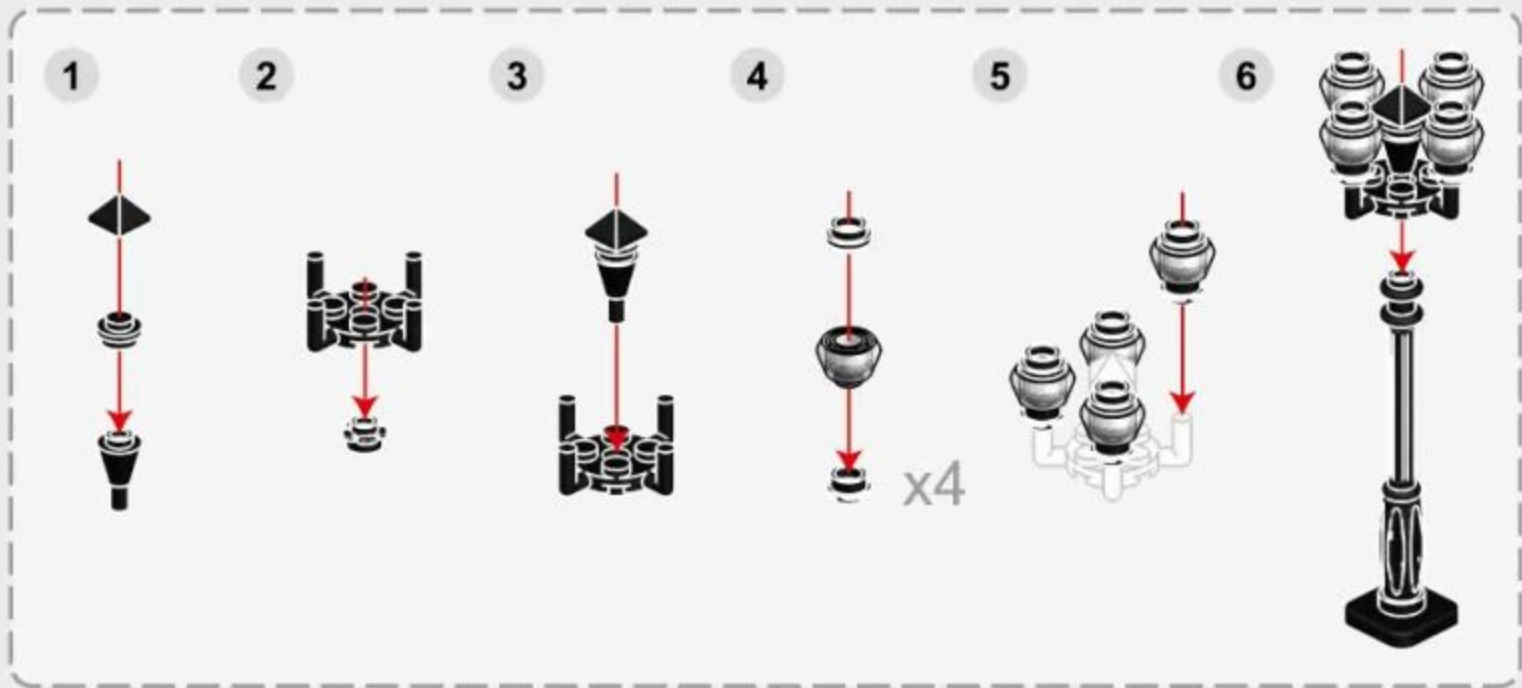
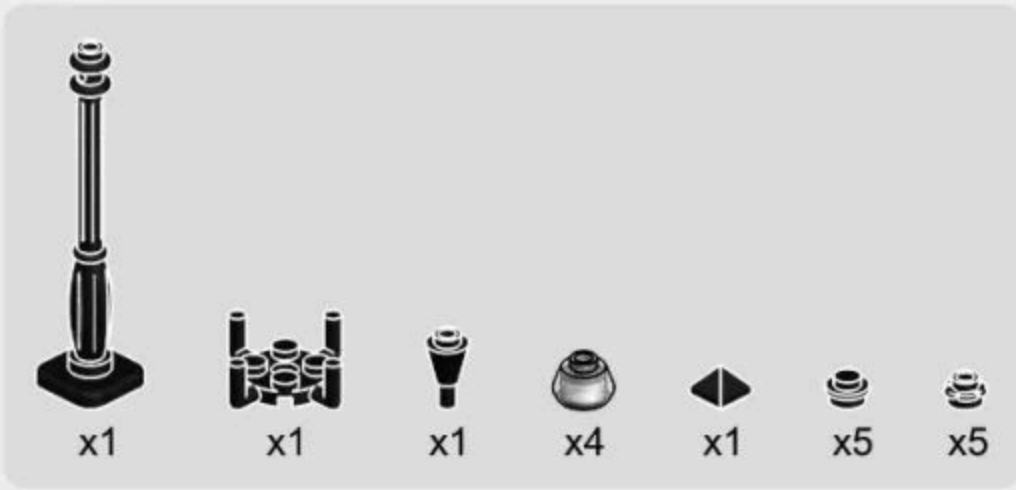


5-1

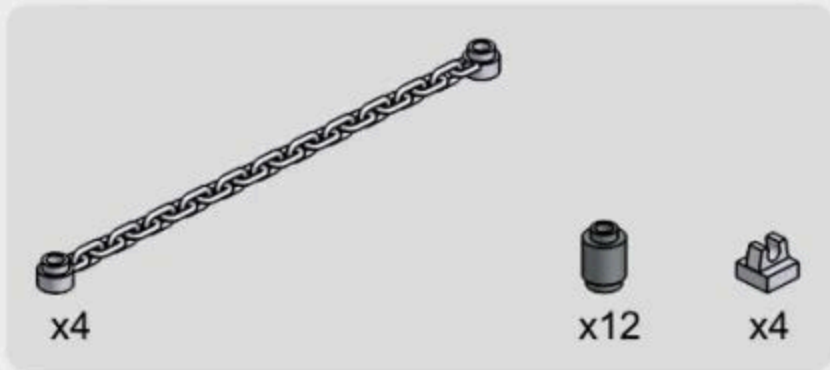
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-  x8
-  x5
-  x1
-  x1
-  x2
-  x2
-  x1
-  x12
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-  x4
-  x9
-  x1



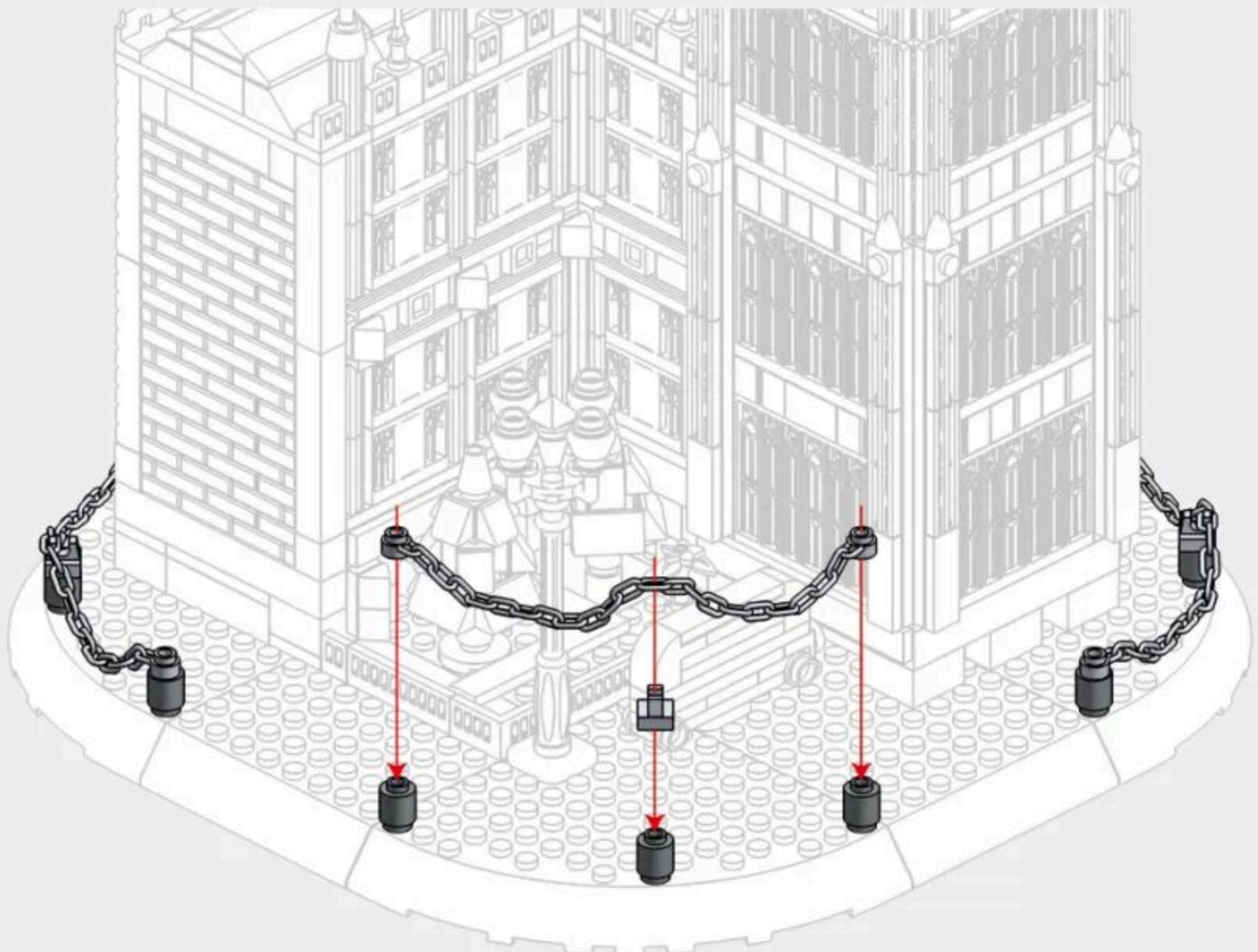
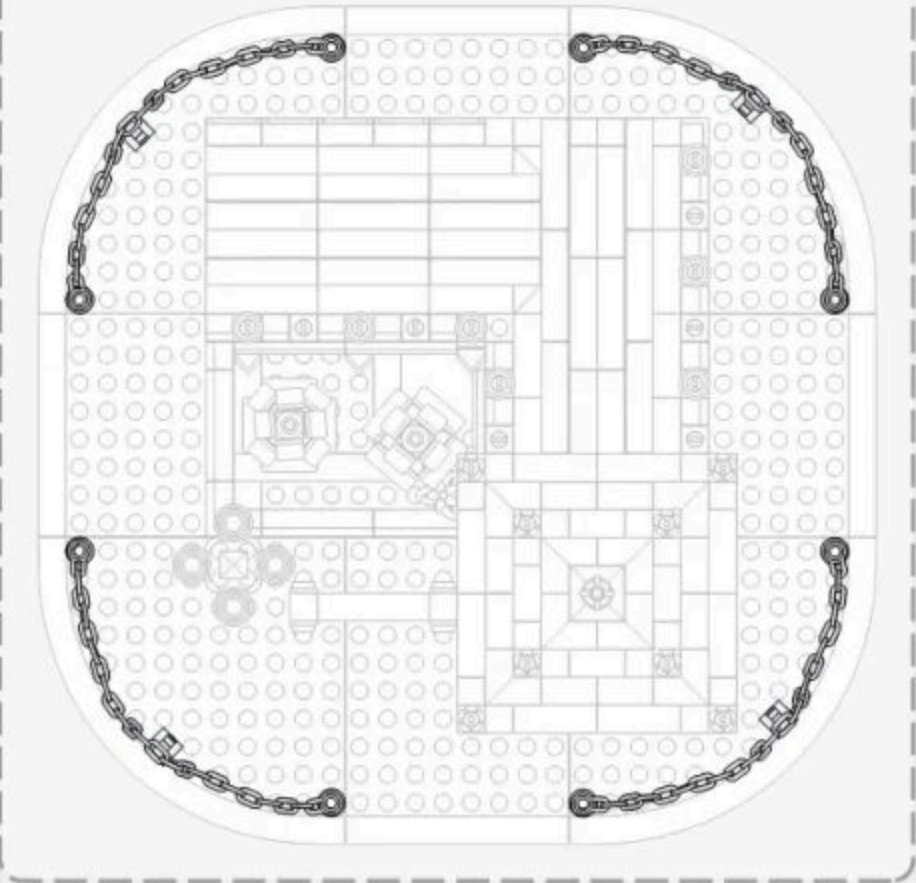
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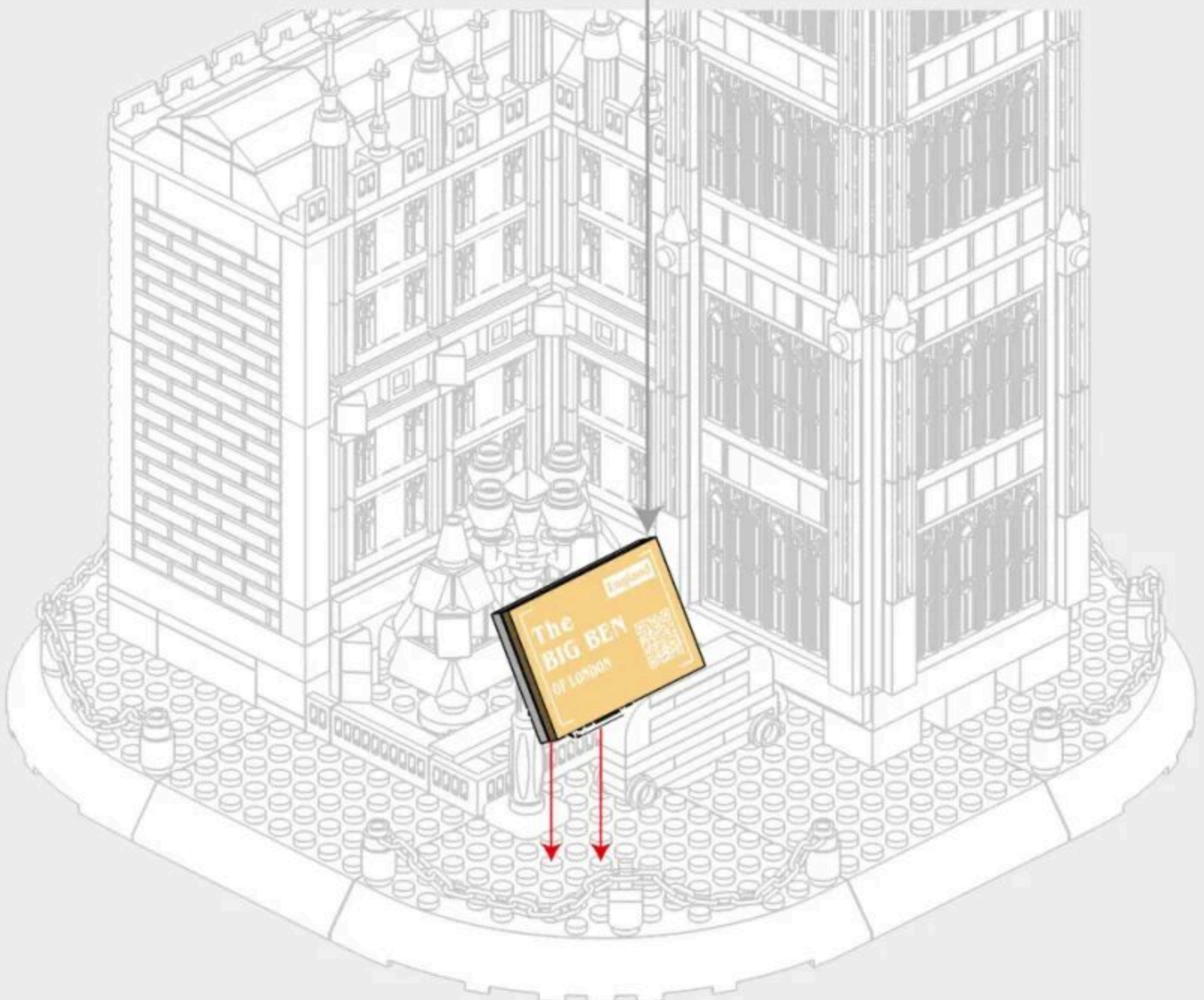
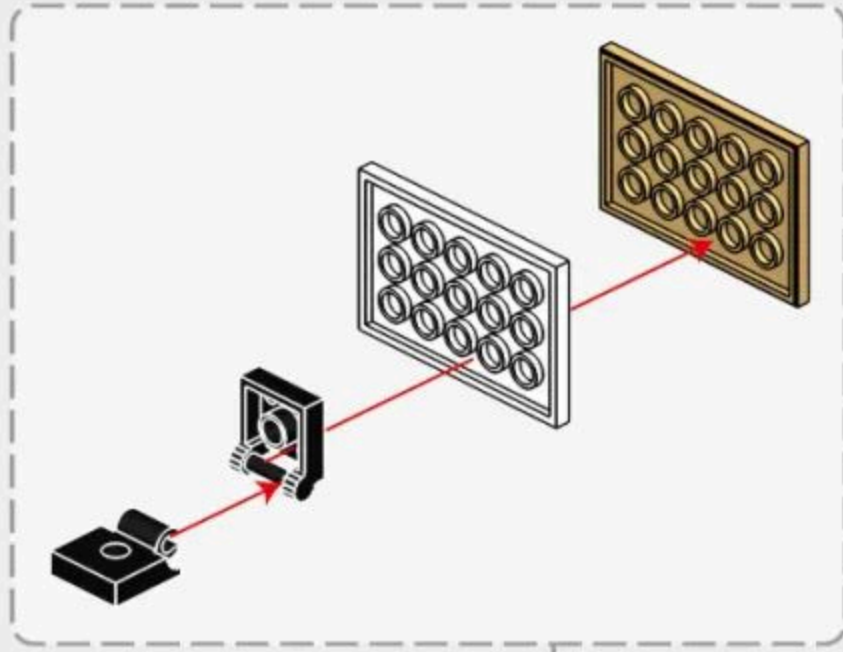
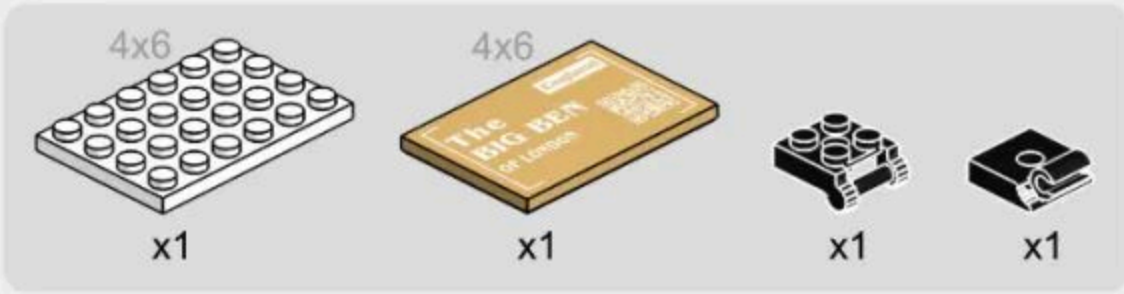
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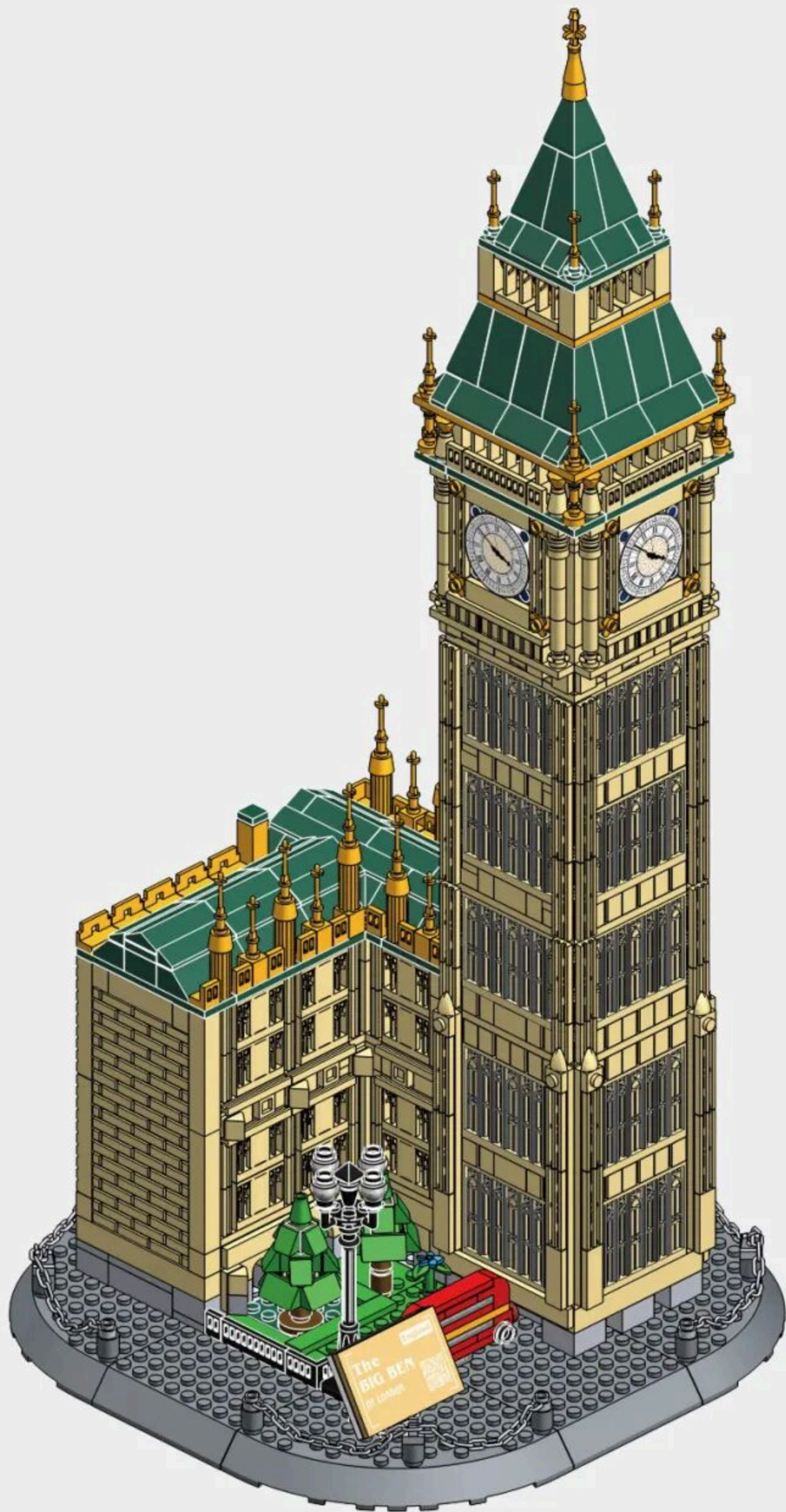


Vertical View of Installation Drawing
安装图顶面



5-5





ARCHITECTURE

The World's great architecture

- Shaping Skills
- Imagination & Curiosity
- Mathematical
- Self Discovery & Perception
- Parent-Child Interaction
- Problem Solving
- Creativity



6224 英国伦敦白金汉宫
BUCKINGHAM PALACE-LONDON,ENGLAND



5225 意大利罗马斗兽场
COLOSSEUM-ROME,ITALY



5226 日本东京帝国饭店
IMPERIAL HOTEL-TOKYO,JAPAN



5227 美国纽约自由女神像
STATUE OF LIBERTY-NEW YORK,AMERICA



6211 德国柏林勃兰登堡门
BRANDENBURG GATE-BERLIN, GERMANY



6222 中国甘肃长城-嘉峪关
JIAYU PASS-GANSU,CHINA



6212 日本京都清水寺仁王门
NOMON GATE OF KIYOMIZU-DERA-KYOTO,JAPAN



6213 俄罗斯莫斯科瓦西里大教堂
SAINT BASIL'S CATHEDRAL-MOSCOW,RUSSIA



6214 中国武汉黄鹤楼
YELLOW CRANE TOWER-WUHAN,CHINA



6215 英国伦敦眼
LONDON EYE-LONDON,ENGLAND



6221 中国北京故宫-太和殿
HALL OF SUPREME HARMONY-BEIJING,CHINA



6220 沙特阿拉伯麦加大清真寺
GREAT MOSQUE OF MECCA,SAUDI ARABIA



6219 美国纽约联合国大厦
UNITED NATIONS HEADQUARTERS-NEW YORK,AMERICA



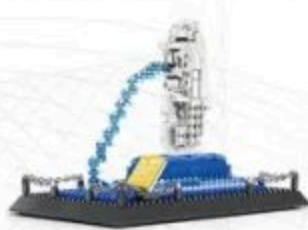
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WHITE HOUSE-WASHINGTON D.C.,AMERICA



4212 意大利罗马许愿池
TREVI FOUNTAIN-ROME,ITALY



4213 法国巴黎卢浮宫
MUSÉE DU LOUVRE-PARIS,FRANCE



4218 新加坡-鱼尾狮
MERLION,SINGAPORE



4219 英国伦敦双子塔桥
TOWER BRIDGE-LONDON,ENGLAND



4216 美国华盛顿林肯纪念堂
LINCOLN MEMORIAL-WASHINGTON D.C.,AMERICA



4217 新加坡-金沙酒店
MARINA BAY SANDS,SINGAPORE



4210 埃及开罗吉萨金字塔
GREAT PYRAMID OF GIZA-CAIRO,EGYPT



4221 加拿大渥太华国会山庄
PARLIAMENT BUILDINGS-OTTAWA,CANADA



4211 英国伦敦伊丽莎白塔
ELIZABETH TOWER-ENGLAND



4215 加拿大多伦多电视塔
THE CN TOWER-CANADA



4220 美国纽约熨斗大厦
FLATIRON BUILDING-NEW YORK,AMERICA



4222 阿联酋迪拜哈利法塔 THE BURJ KHALIFA TOWER-DUBAI, UAE
 5224 中国上海东方明珠广播电视塔 ORIENTAL PEARL TOWER-SHANGHAI, CHINA
 5212 美国纽约帝国大厦 EMPIRE STATE BUILDING-NEW YORK, AMERICA
 5213 马来西亚吉隆坡石油双塔 PETRONAS TWIN TOWERS-KUALA LUMPUR, MALAYSIA
 5214 意大利托斯卡纳比萨斜塔 LEANING TOWER OF PISA-TUSCANY, ITALY
 5216 英国伦敦伊丽莎白塔 ELIZABETH TOWER-LONDON, ENGLAND



5219 俄罗斯莫斯科克里姆林宫钟楼 SPASSKAYA TOWER-MOSCOW, RUSSIA
 5220 阿联酋迪拜卓美亚帆船酒店 BURJ AL ARAB HOTEL-DUBAI, UAE
 5217 法国巴黎埃菲尔铁塔 EIFFEL TOWER-PARIS, FRANCE
 5221 中国台北101大楼 TAIPEI 101-TAIPEI, CHINA
 5228 美国芝加哥威利斯大厦 WILLIS TOWER-CHICAGO, AMERICA
 5231 巴西里约热内卢救世基督像 CRISTO REDENTOR-RIO DE JANEIRO, BRASIL



6223 中国武汉长江大桥 WUHAN YANGTZE RIVER BRIDGE
 5210 法国巴黎圣母院大教堂 CATHÉDRALE NOTRE DAME DE PARIS-PARIS, FRANCE
 5211 印度阿格拉泰姬陵 TAJ MAHAL-AGRA, INDIA
 5223 法国巴黎凯旋门 ARC DE TRIOMPHE-PARIS, FRANCE
 5215 英国伦敦双子塔桥 TOWER BRIDGE-LONDON, ENGLAND



5222 中国北京天坛祈年殿 HALL OF PRAYER FOR GOOD HARVESTS-BEIJING, CHINA
 6210 美国旧金山金门大桥 GOLDEN GATE BRIDGE-SAN FRANCISCO, AMERICA
 6216 中国北京万里长城(八达岭) THE GREAT WALL-BEIJING, CHINA
 5218 中国北京天安门 TIANANMEN TOWER-BEIJING, CHINA
 6217 中国西藏布达拉宫 POTALA PALACE-TIBET, CHINA



6218 芬兰罗瓦涅米圣诞老人办公室 SANTA CLAUS OFFICE-ROVANIEMI, FINLAND
 6225 墨西哥库库尔坎玛雅金字塔 EL CASTILLO-KUKULKAN, MEXICO
 6226 德国巴伐利亚新天鹅堡 SCHLOSS NEUSCHWANSTEIN-BAYERN, DEUTSCHLAND
 5229 土耳其伊斯坦布尔少女塔 MAIDEN TOWER-ISTANBUL, TURKEY
 5230 中国湖南长沙爱晚亭 AIWANTING PAVILION-HUNAN, CHINA



7210 中国上海世博会中国馆
CHINA PAVILION AT EXPO-SHANGHAI, CHINA



5232 美国宾夕法尼亚州流水别墅
FALLINGWATER-PENNSYLVANIA, AMERICA



5233 美国芝加哥范斯沃斯住宅
FARNSWORTH HOUSE-CHICAGO, AMERICA



5234 美国华盛顿唐人街
CHINA TOWN-WASHINGTON, D.C., AMERICA



3210 美国纽约自由女神像
STATUE OF LIBERTY-NEW YORK, AMERICA



4223 中国北京清华园
TSINGHUA CAMPUS-BEIJING, CHINA



7211 中国湖南岳阳楼
YUEYANG TOWER-HUNAN, CHINA



8210 澳大利亚悉尼歌剧院
SYDNEY OPERA HOUSE-BENNELONG POINT, AUSTRALIA



7212 中国江西南昌滕王阁
PAVILION OF PRINCE TENG-JIANGXI, CHINA



6227 中国河南郑州嵩山少林寺
SHAOLIN TEMPLE-HENAN, CHINA



7213 中国重庆洪崖洞
HONGYADONG-CHONGQING, CHINA



5235 美国华盛顿国会大厦
UNITED STATES CAPITOL-WASHINGTON D.C., AMERICA



5236 中国安徽滁州醉翁亭
ZUIWENG PAVILION-ANHUI, CHINA



6228 中国陕西西安钟楼
XI'AN BELL TOWER-SHAANXI, CHINA



5238 美国西雅图太空针塔
SPACE NEEDLE-SEATTLE, AMERICA



5237 法国巴黎萨伏伊别墅
VILLA SAVOYE-PARIS, FRANCE



6229 中国山西运城鹳雀楼
STORK TOWER-SHANXI, CHINA



6230 希腊爱情海圣托里尼岛
SANTORINI-FIRA, GREECE



6231 中国上海海关大楼
SHANGHAI CUSTOMS HOUSE-SHANGHAI, CHINA



5239 中国北京紫禁城角楼
TURRET OF PALACE MUSEUM-BEIJING, CHINA



5240 韩国首尔崇礼门
NAMDAEMUN-SEOUL, KOREA



5241 中国江苏南京夫子庙
CONFUCIUS TEMPLE-JIANGSU, CHINA



5242 美国纽约古根海姆博物馆
GUGGENHEIM MUSEUM-NEW YORK, AMERICA



6232 中国江苏南京秦淮河画舫
QINHUAI RIVER PAINTED BOAT-JIANGSU, CHINA



6233 法国诺曼底圣米歇尔山
SAINT MICHAEL'S MOUNT-NORMANDY, FRANCE



6234 中国河南洛阳栾川老君山
THE LAOJUN MOUNTAIN-HENAN, CHINA



5243 耶路撒冷岩石圆顶
DOME OF THE ROCK-JERUSALEM



6235 中国江苏苏州寒山寺 (普明宝塔)
HANSHAN TEMPLE-JIANGSU, CHINA



4224 英国威尔特郡巨石阵
STONEHENGE-WILTSHIRE, ENGLAND



4225 中国内蒙古自治区蒙古包
MONGOLIAN YURT-INNER MONGOLIA, CHINA



8211 中国福建土楼(承启楼)
CHENGQI EARTH BUILDING-FUJIAN, CHINA





BIG BEN

COUNTRY: England
CITY: London

