



# Architecture

21046

## Empire State Building

New York, USA



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# An Icon of its Time

At 102 stories, the Empire State Building may no longer be the tallest skyscraper in New York, but it is undoubtedly one of the most significant. No visit to the city is complete without a trip to the building's observation deck to experience the unforgettable views of the city. Designed by Shreve, Lamb & Harmon and completed in 1931, a lot of the building's cultural significance lies within its great history. A sign of hope and optimism during the Great Depression, it was built in record time and became the tallest building in the world, a title it retained for almost 40 years.

The Empire State Building also embodies the refinement and evolution of steel construction and technological prowess, though its design and construction faced many technical problems at the time. But a spirit of innovation and determination prevailed, and the building has taken its place in architectural and cultural history as a symbol of power and grandeur.





# The Creation of an Icon

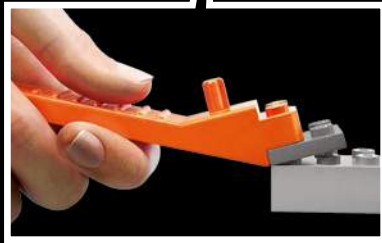
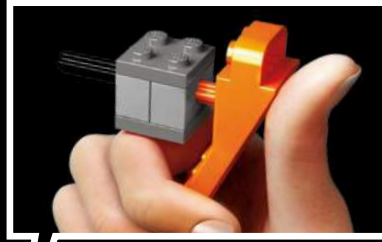
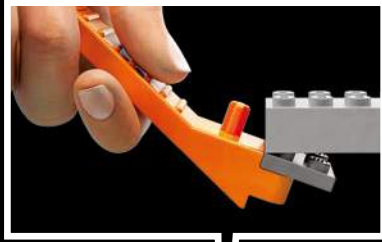
Originally agricultural land, the prominent Astor family bought the area in 1827 and built the Waldorf-Astoria hotel on the site in the late 1890s. Eventually, businessman John Raskob and former governor Al Smith, who later became part of the Empire State Inc. group of investors, bought and demolished the outdated hotel, and contracted William Lamb to create the building design.

Before the designs were even finished, work started on the building's construction on March 17th, 1930. The pace of construction was phenomenal; with an average construction rate of four and a half stories a week. By September of the same year, 86 stories were built, and the mast was completed by November. The entire construction was finished, and the building officially opened by President Hoover on May 1st, 1931, 45 days ahead of schedule.

# A Symbol of New York

After its construction, the Empire State Building became an instant tourist attraction, with visitors coming to see the spectacular views from the observation deck of the “World’s Tallest Building.” It became a National Historic Landmark in 1986 and was added to the National Register of Historic Places the year after. The American Society of Civil Engineers has also named it as one of the Seven Wonders of the Modern World, and in 2007 it was ranked at number one on the list of America’s Favorite Architecture by the American Institute of Architects. Aside from its many accolades and titles, the Empire State Building is a cultural symbol of New York, with starring roles in many movies, from the original King Kong to Sleepless in Seattle.





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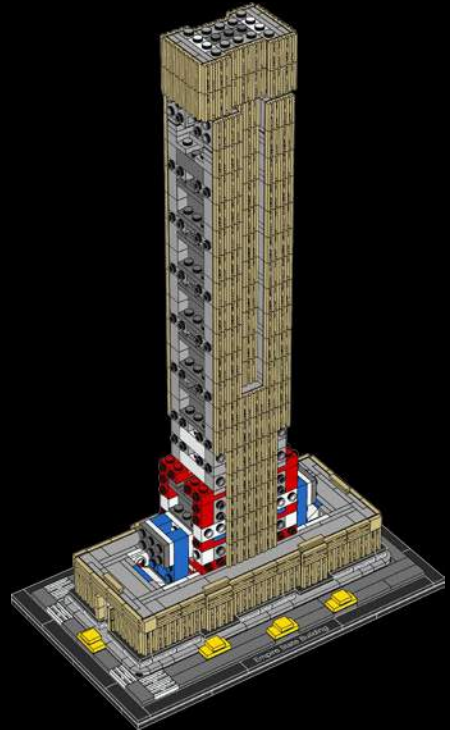
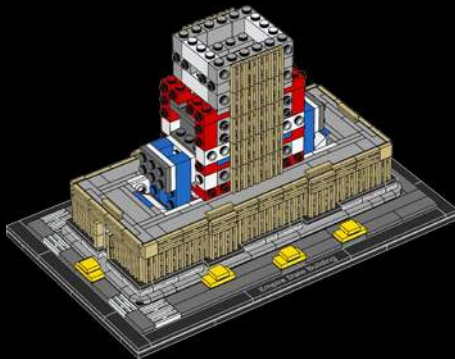
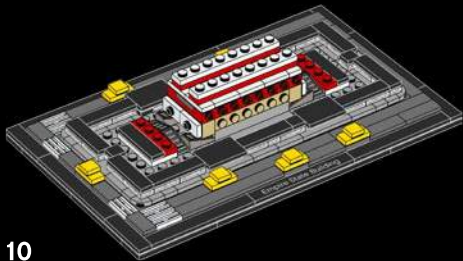


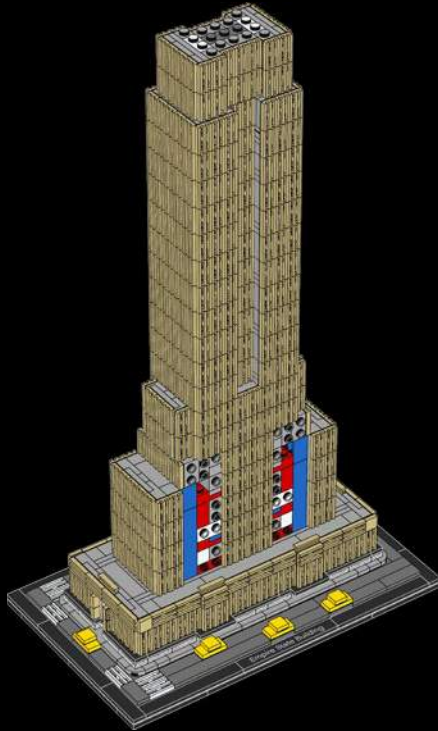
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 Hol dir die Bauanleitung  
 Obtens les instructions de montage  
 Obtenir les instructions de montage  
 Scarica le istruzioni per la costruzione  
 Consulta las instrucciones de construcción  
 Obtém as Instruções de Construção  
 Szerezd be az építési útmutatókat!  
 Saņem būvēšanas instrukcijas  
 获取拼搭说明

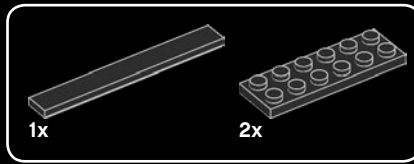
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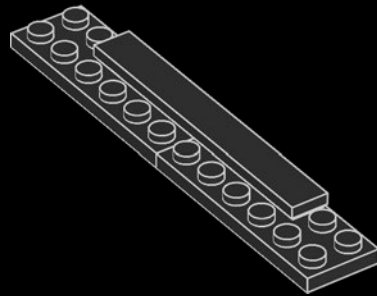
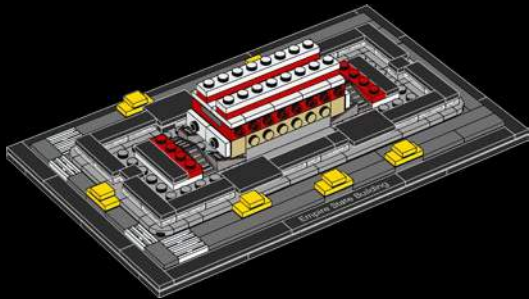
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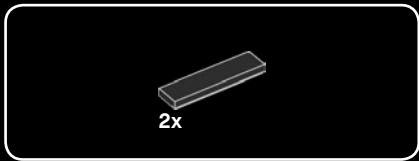




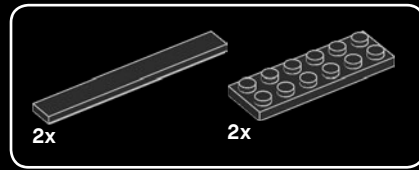
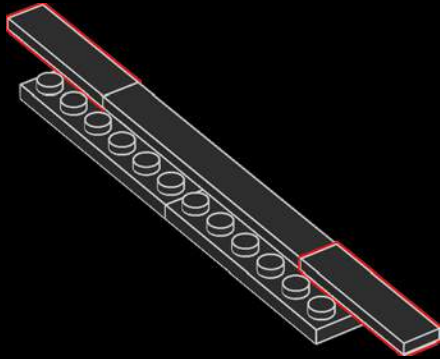


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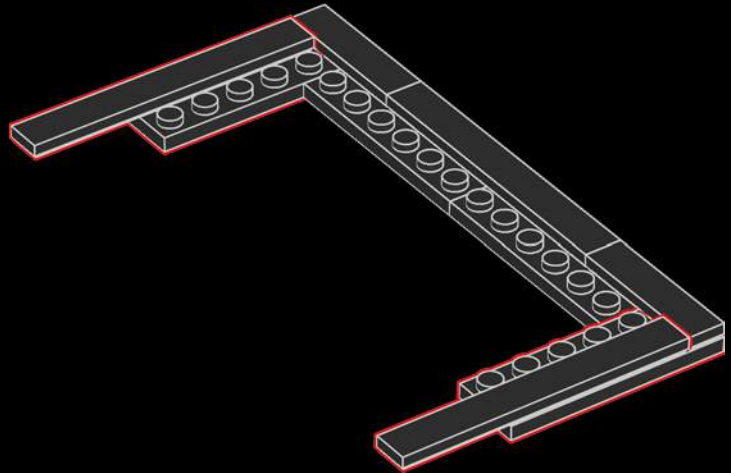


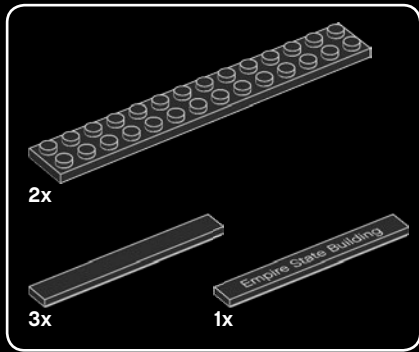


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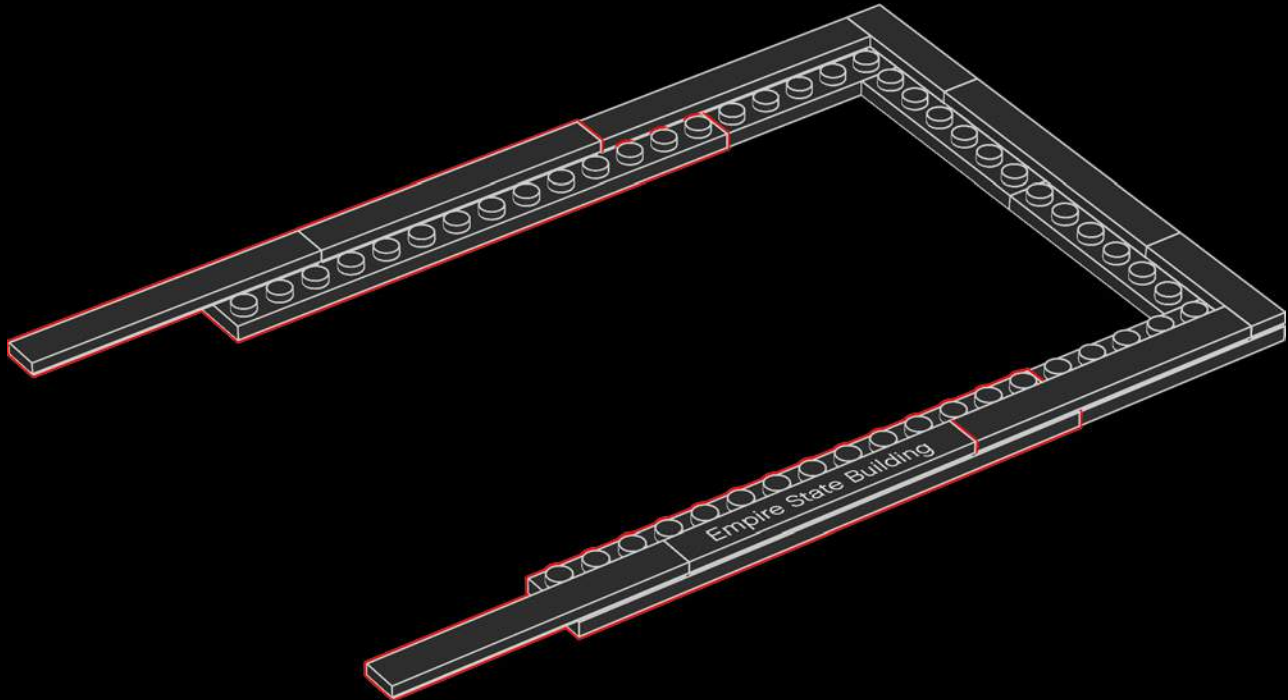


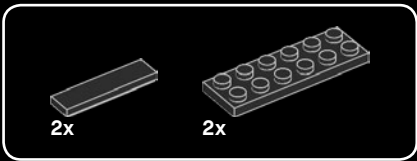
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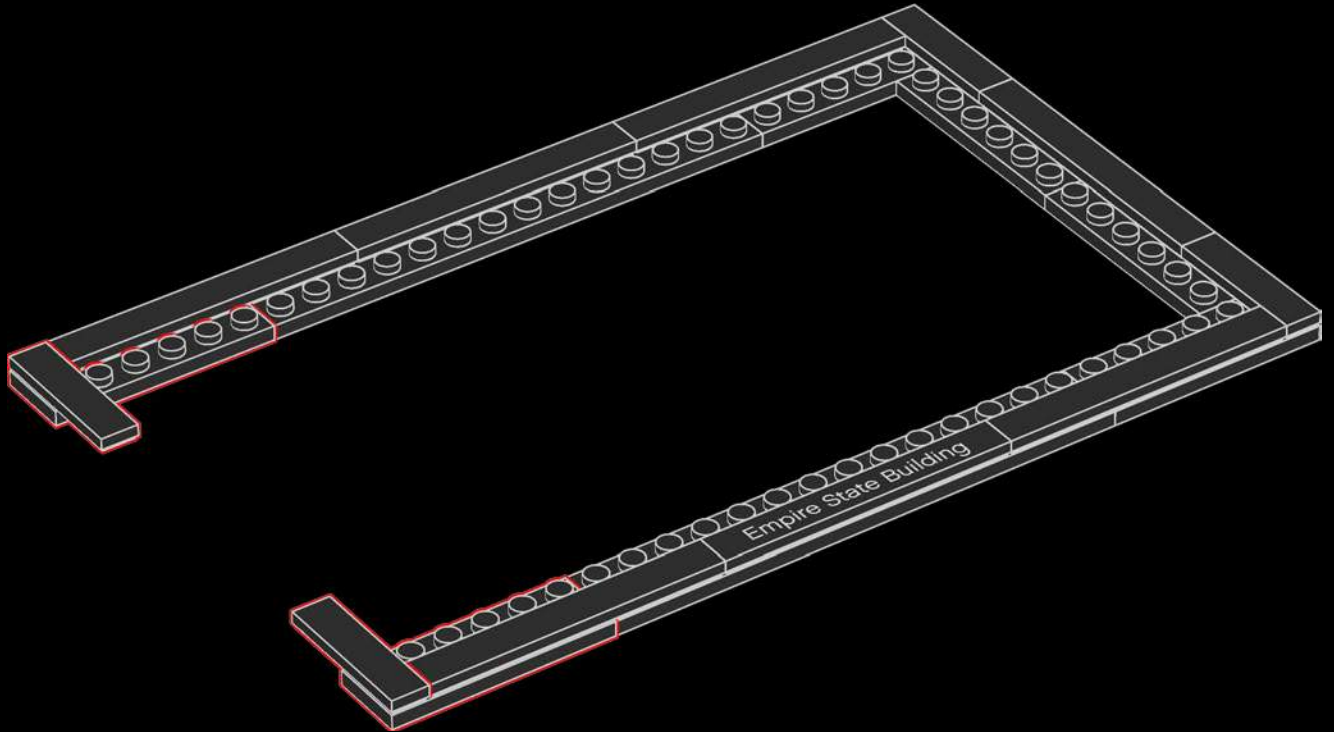


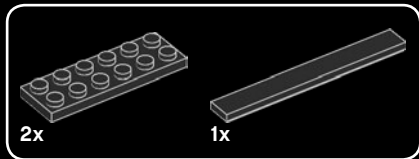
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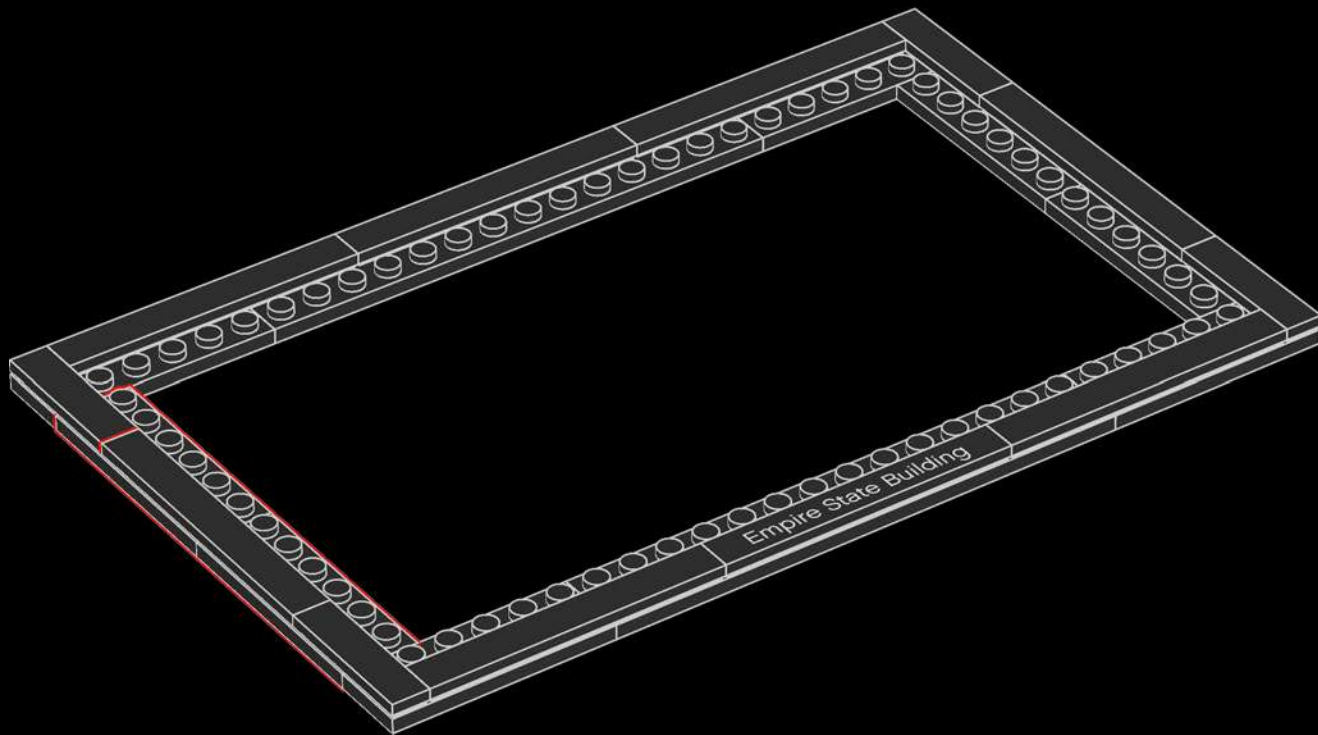


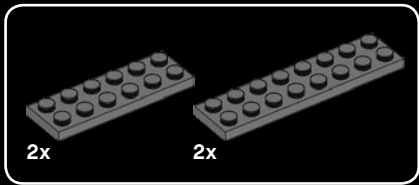
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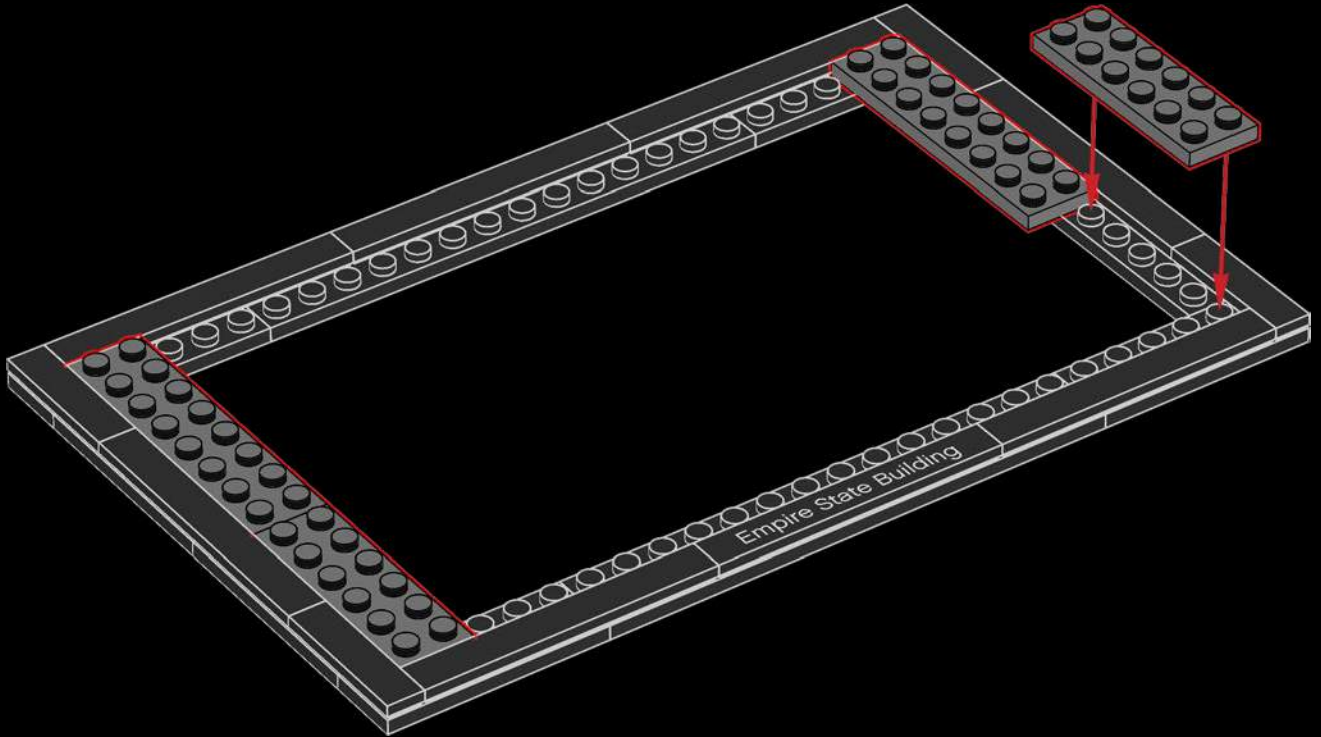


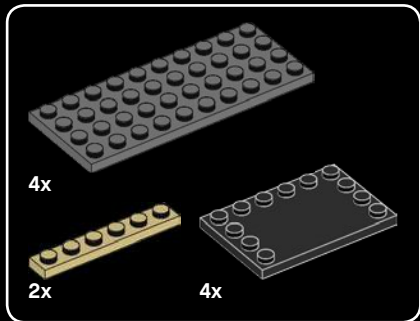
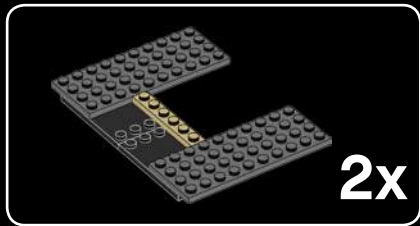
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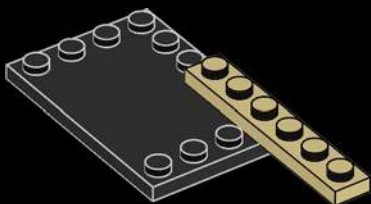
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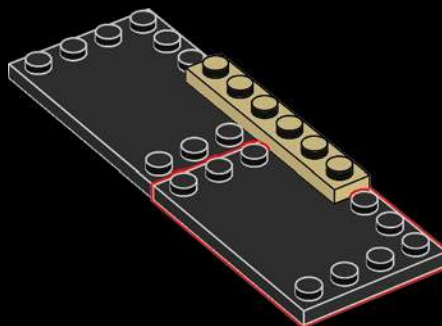


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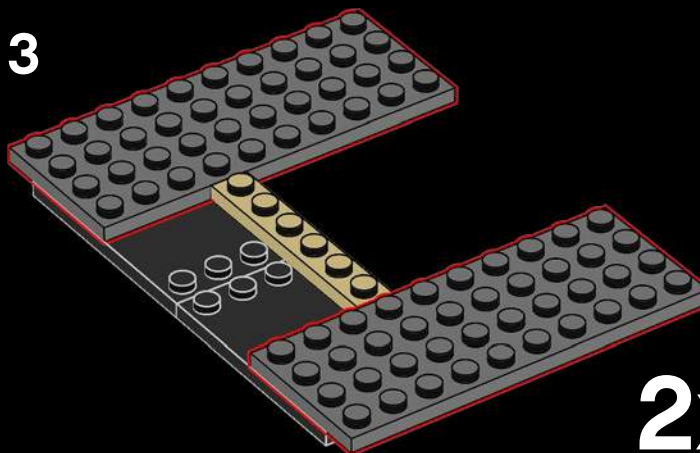
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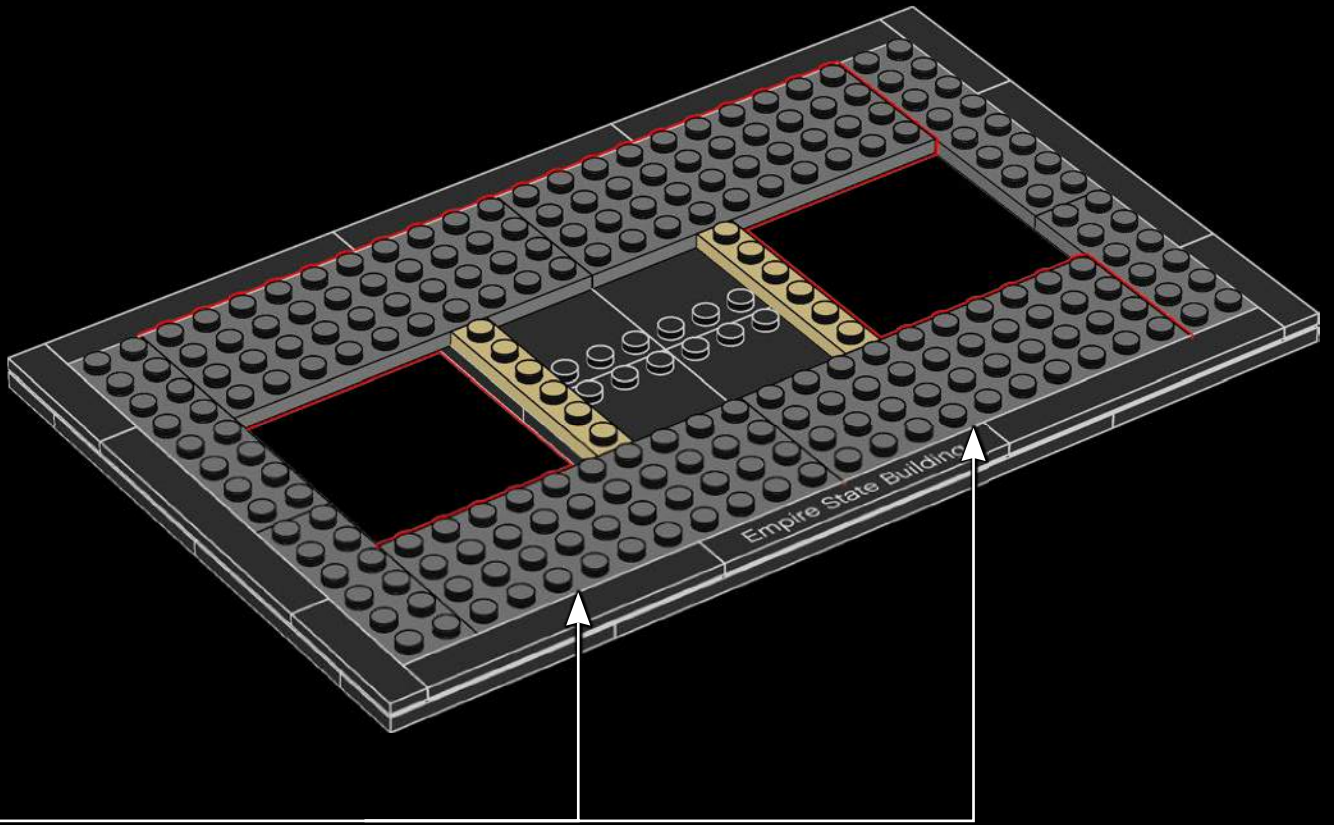


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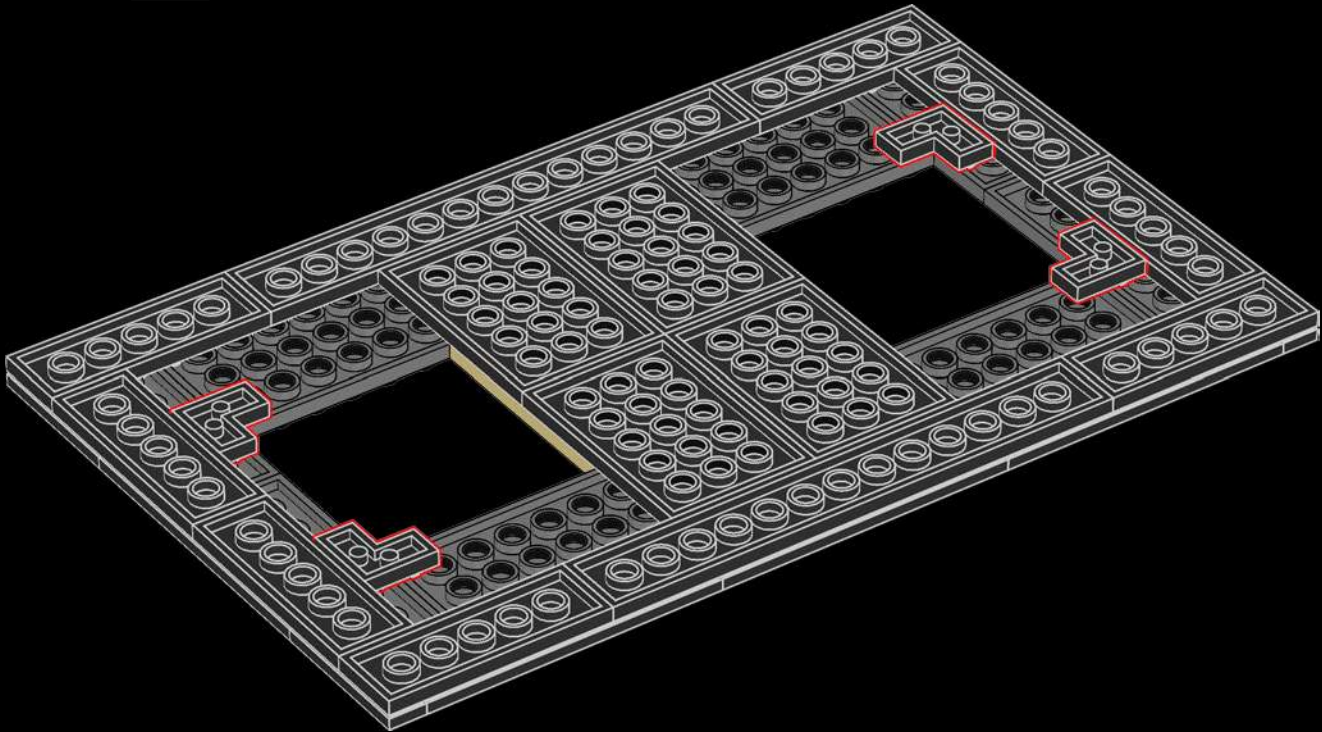


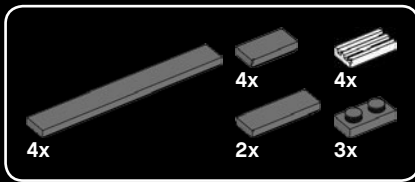




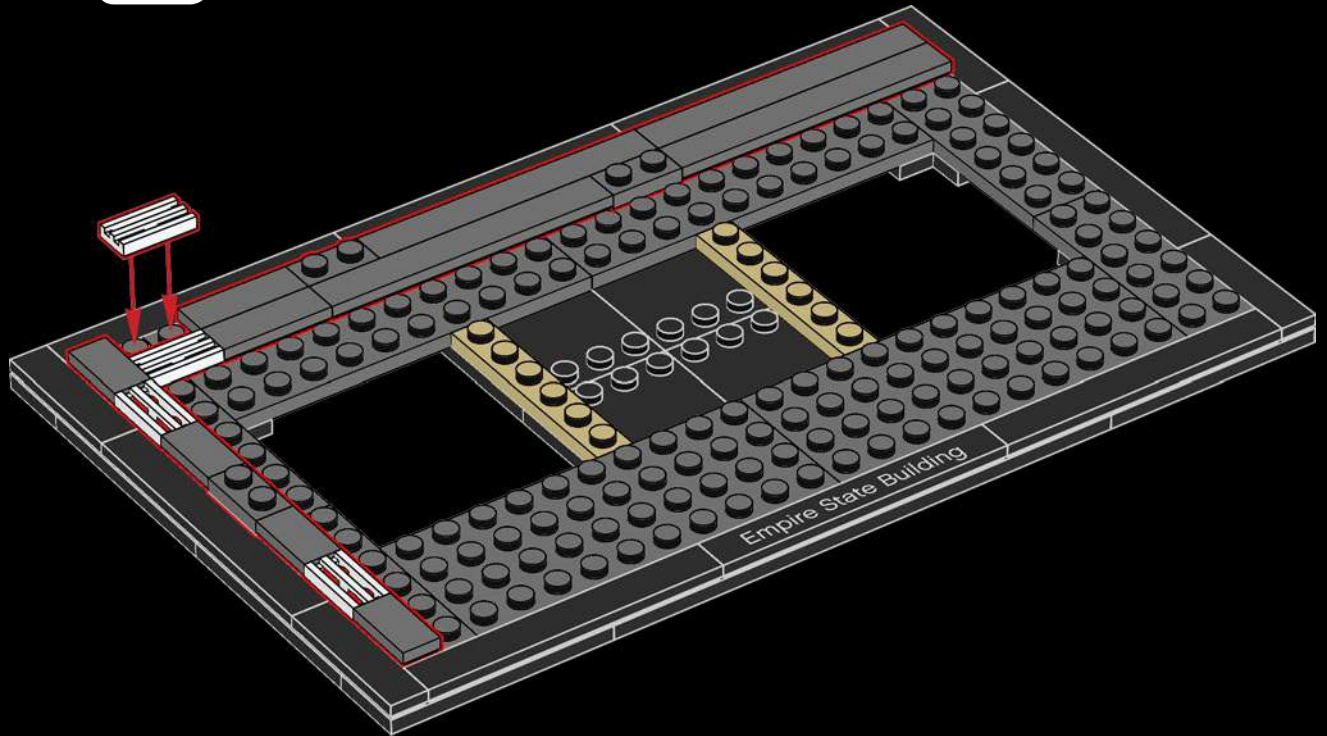
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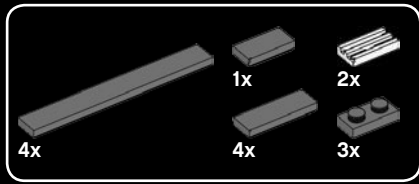
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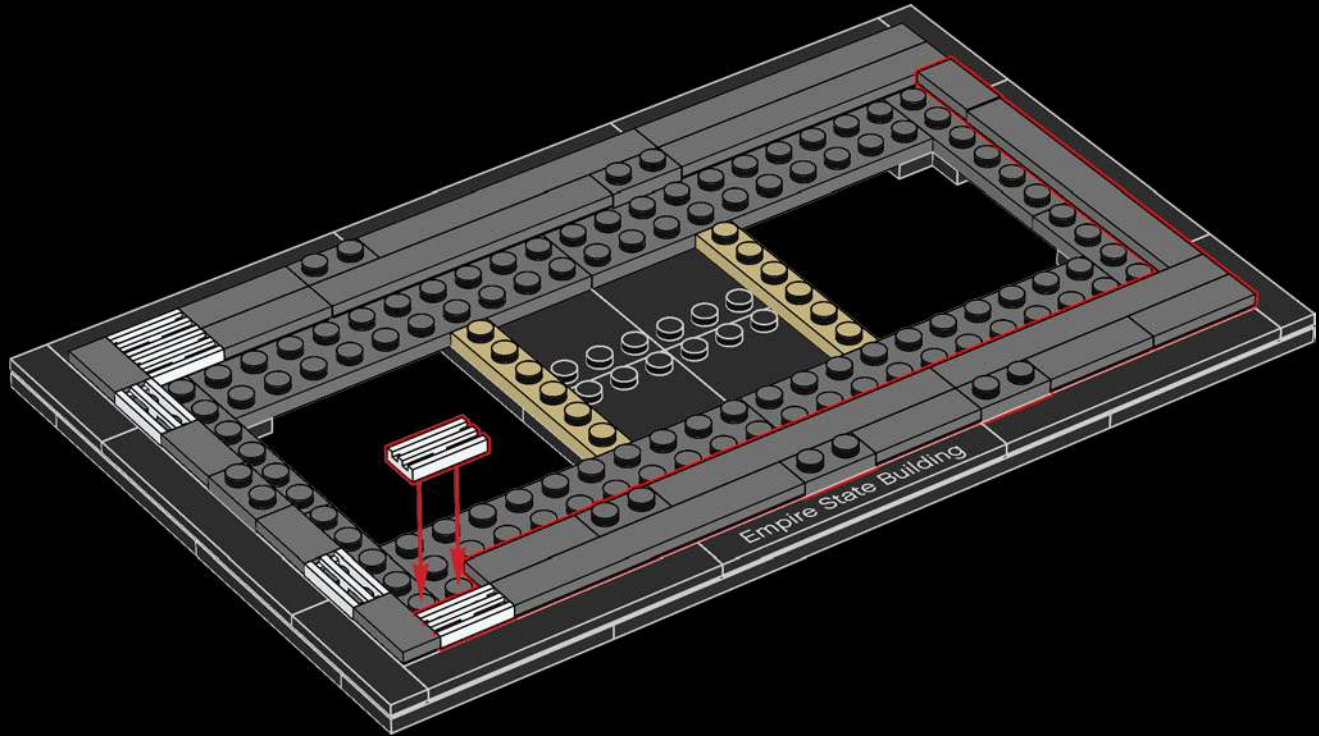


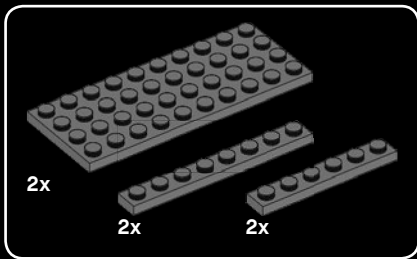
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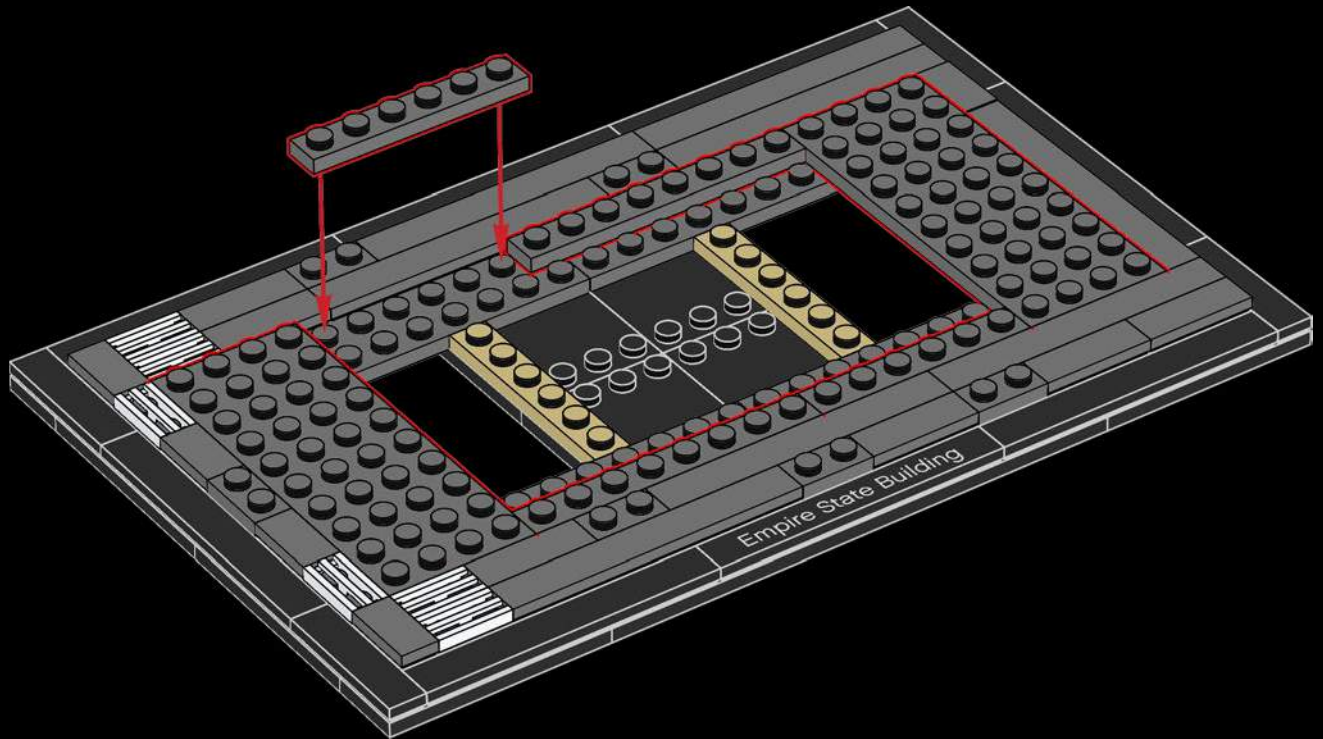


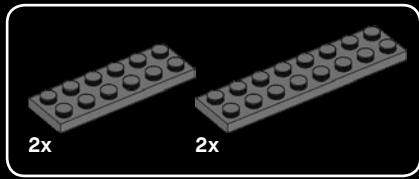
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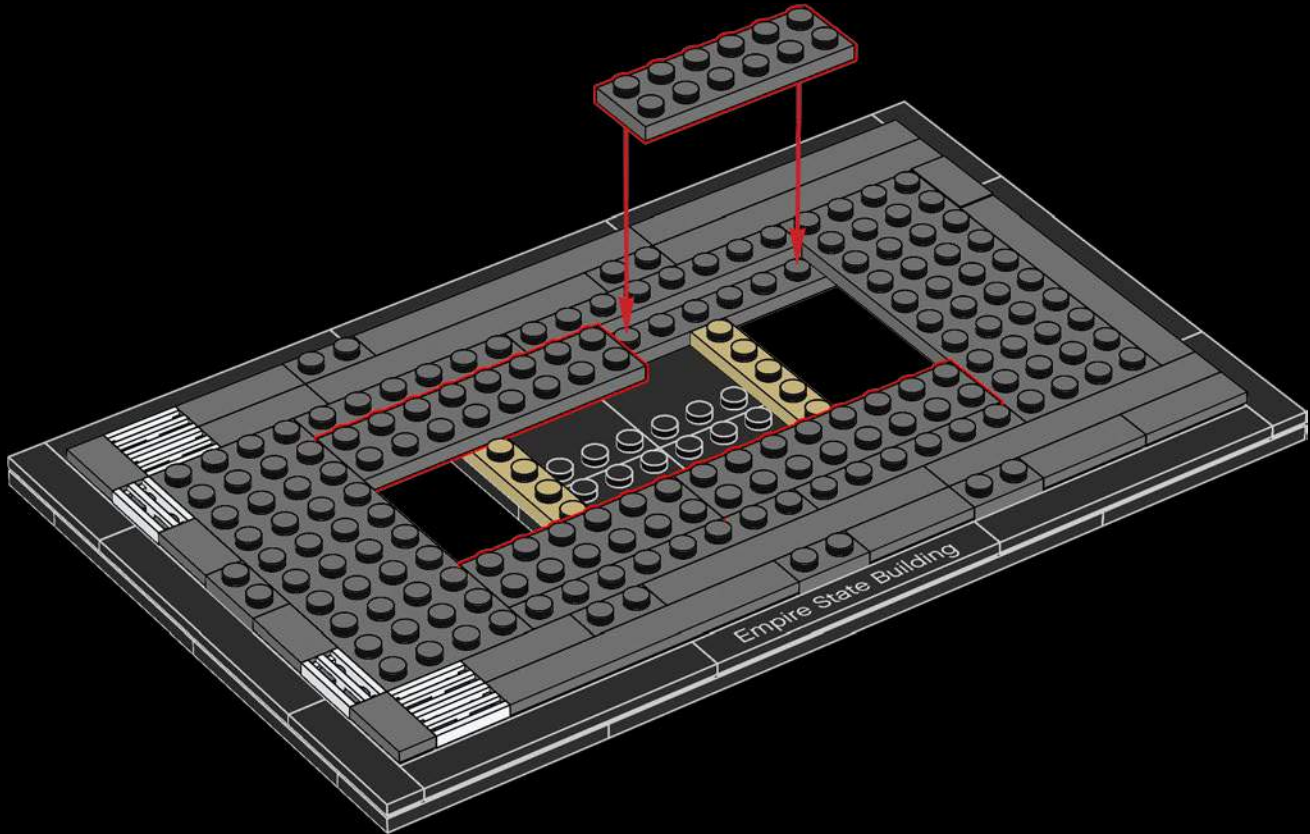


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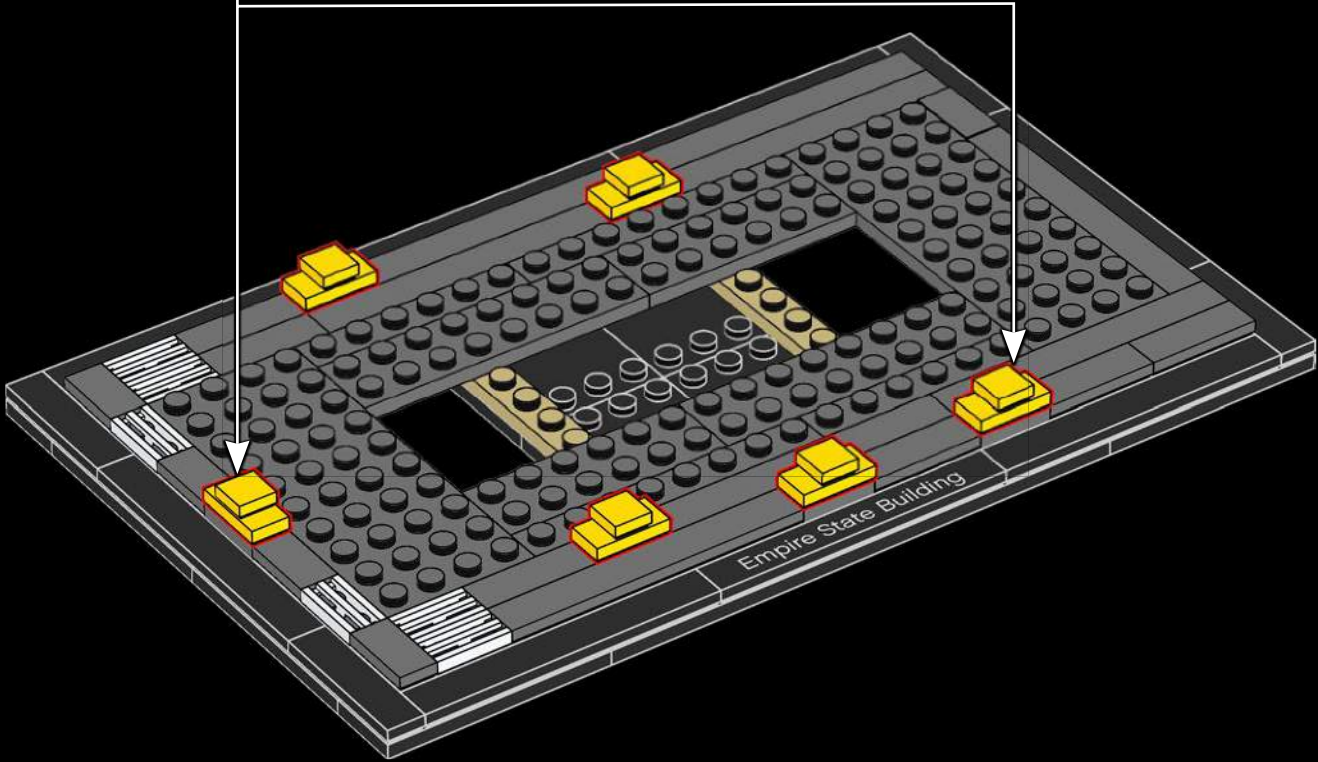
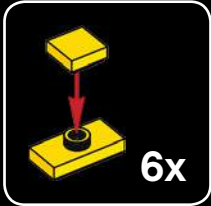


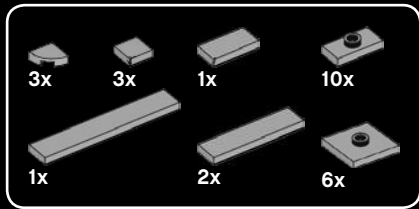
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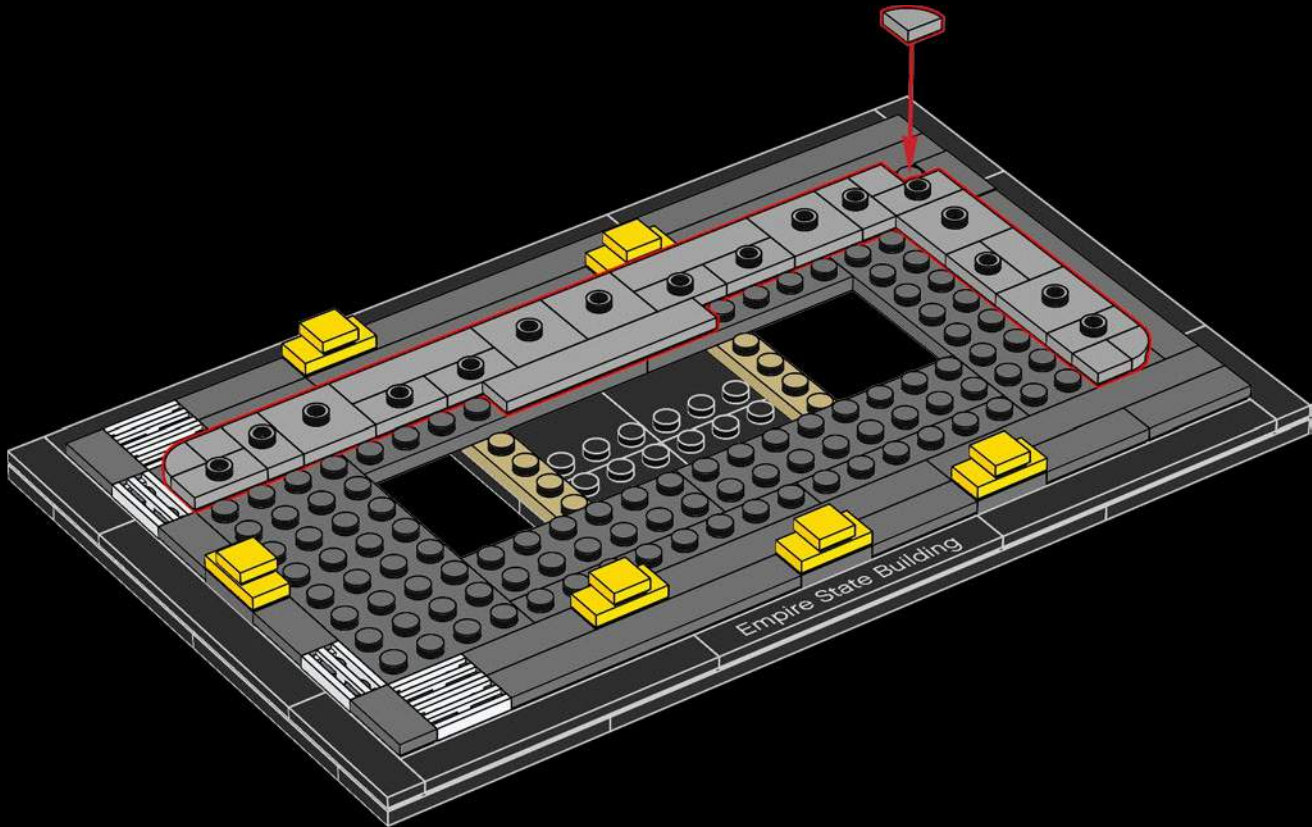


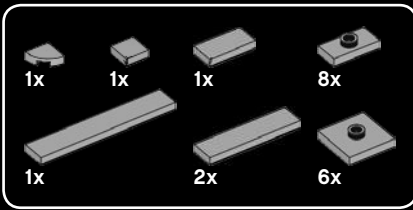
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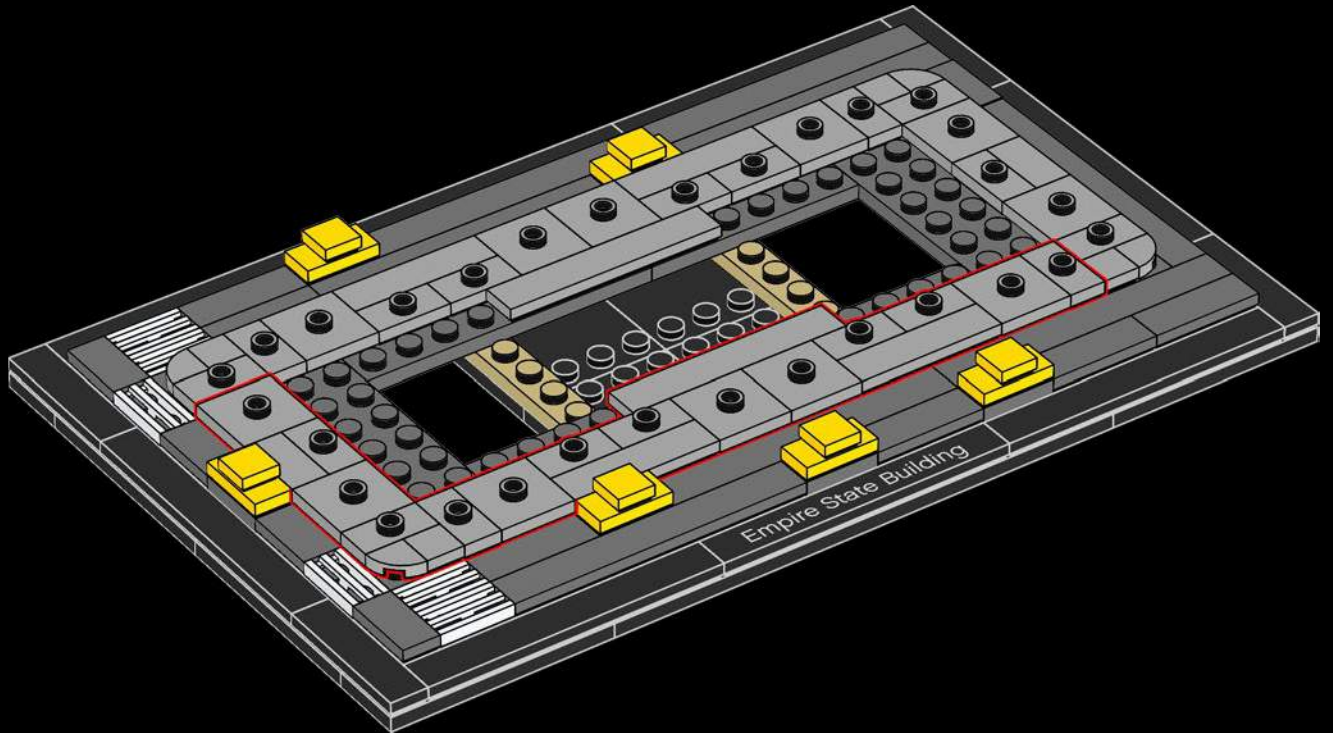


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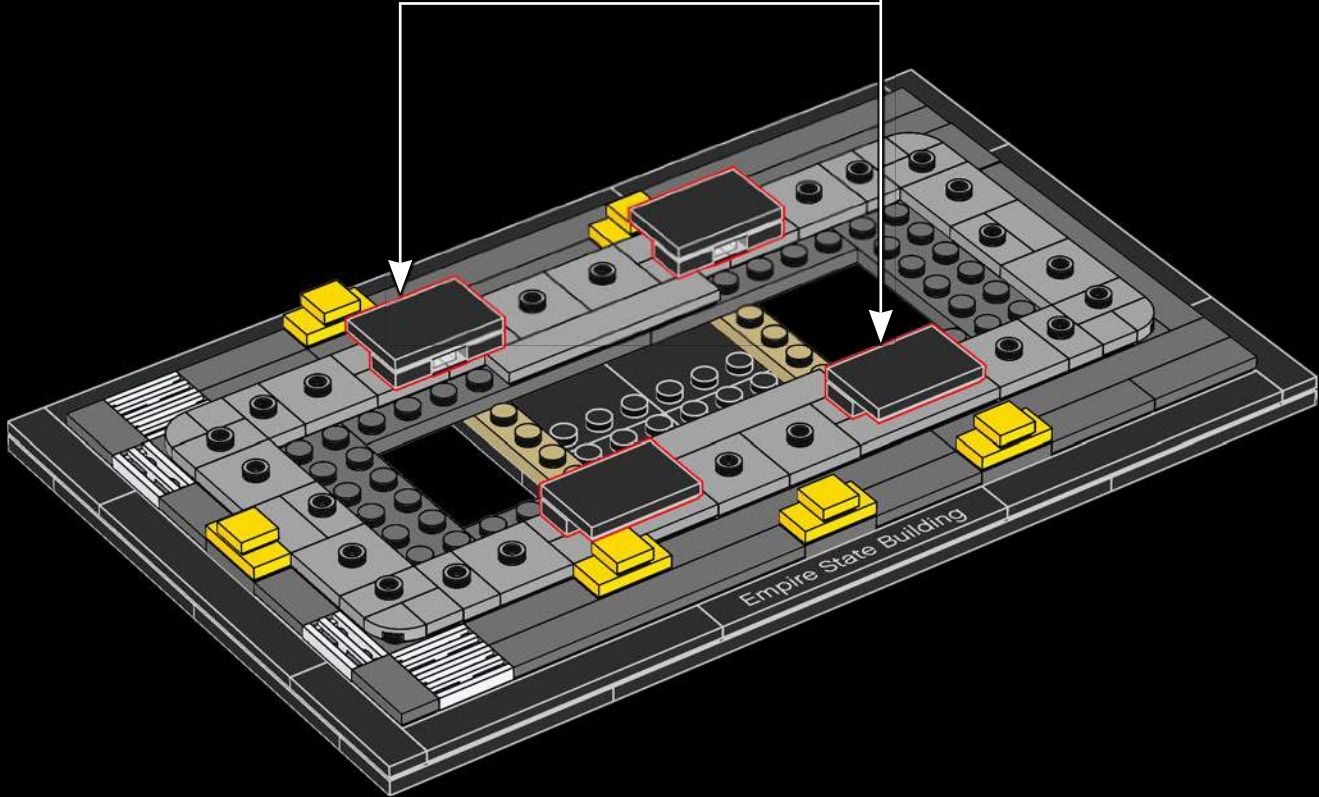
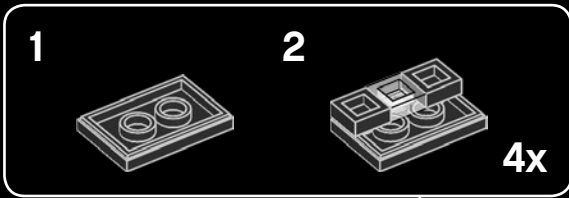


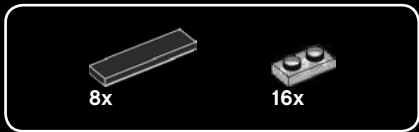
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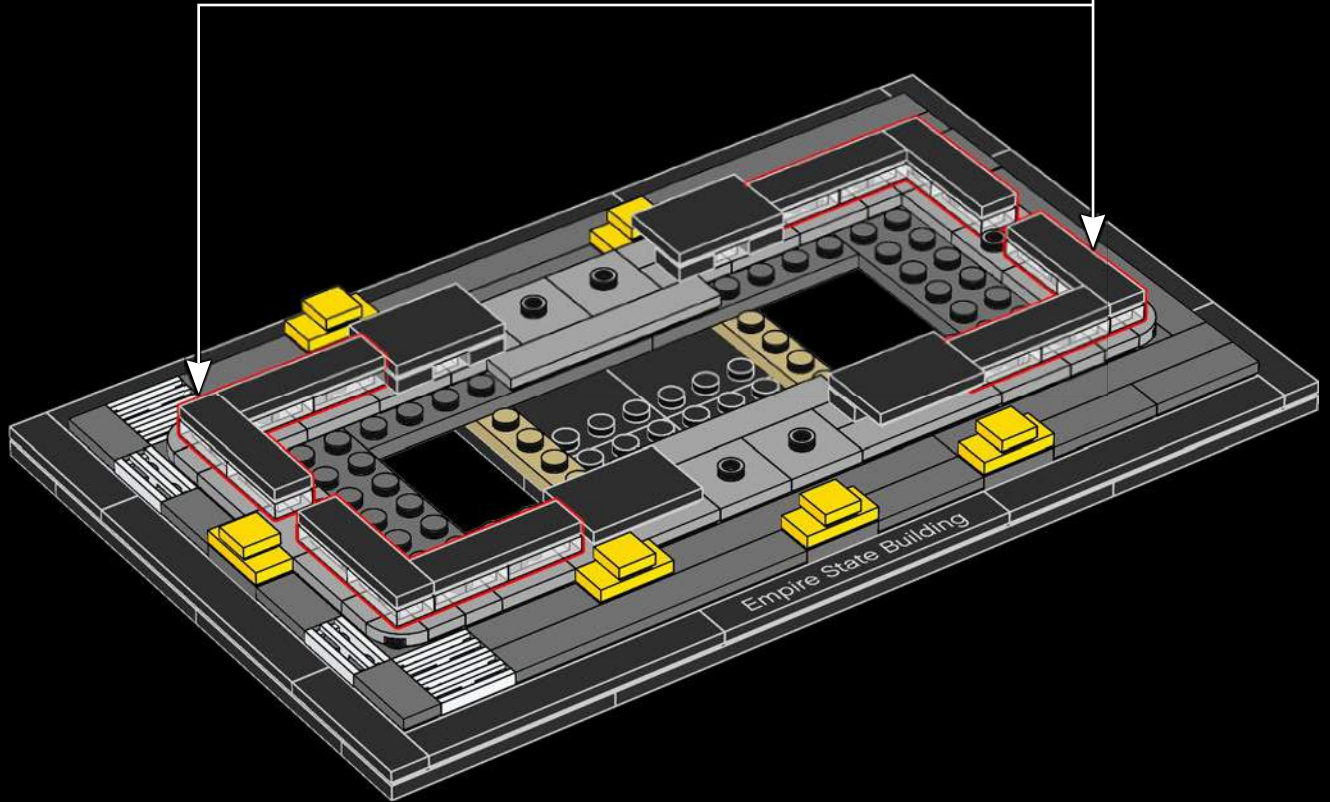
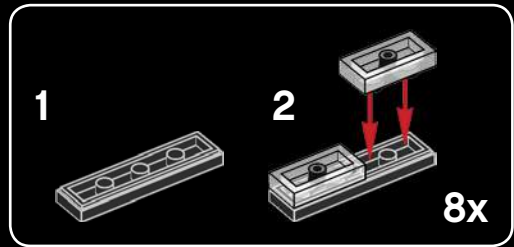


17





18





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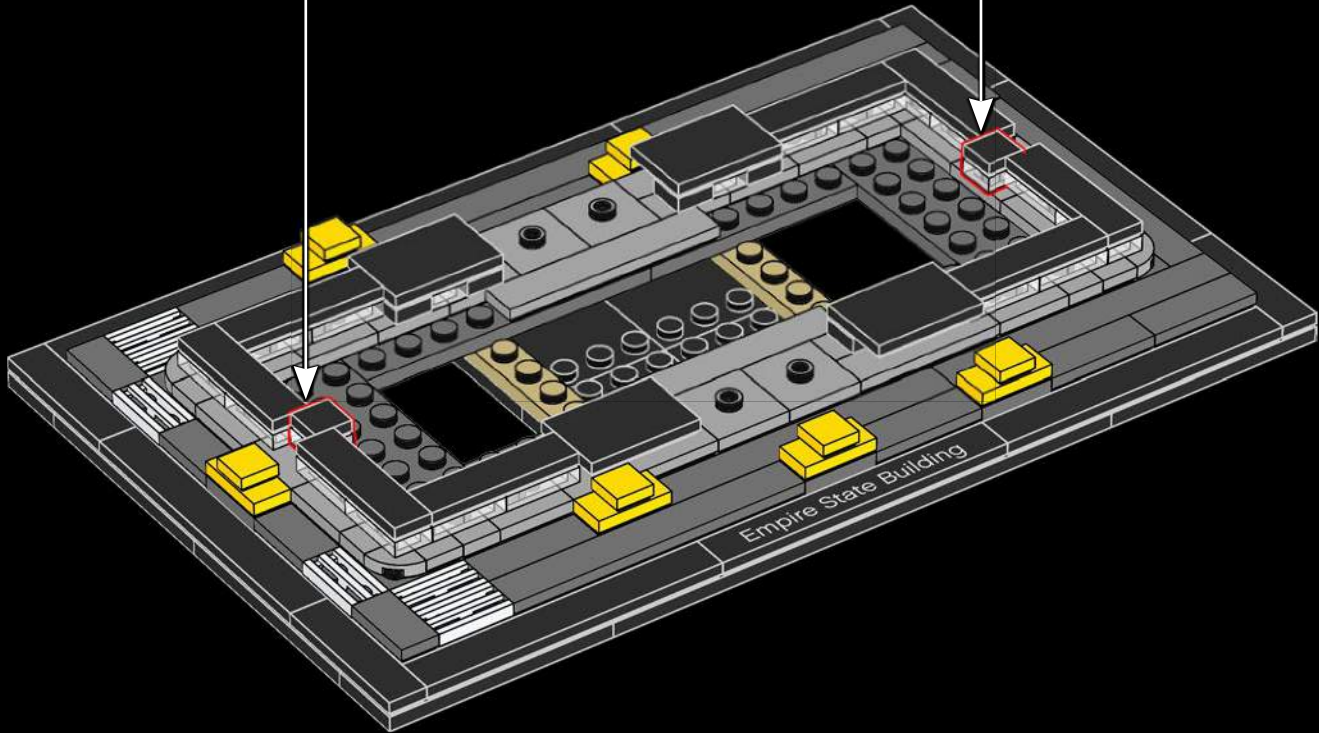
Running parallel to 33rd and 34th Streets, the chapel-like, three-story-high lobby has storefronts on its north and south sides.



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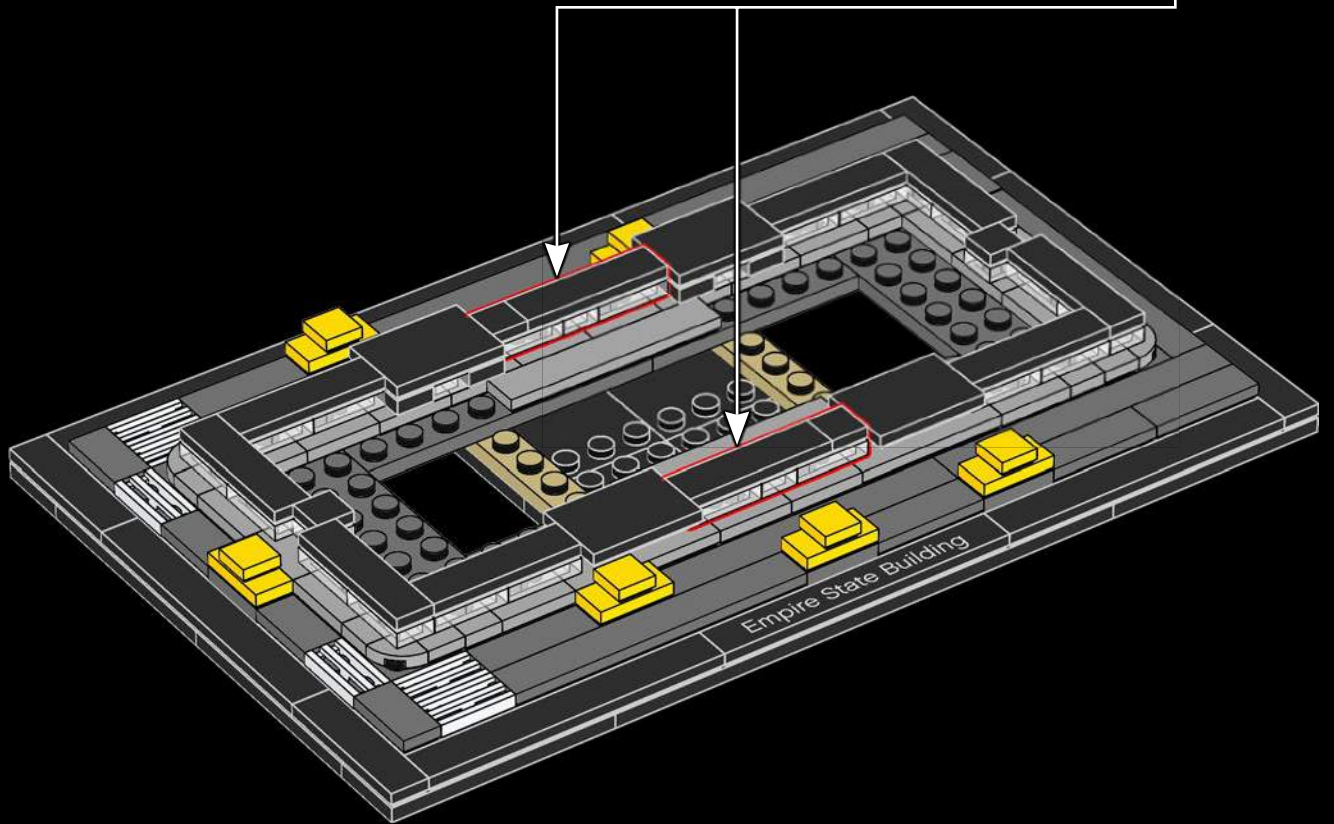
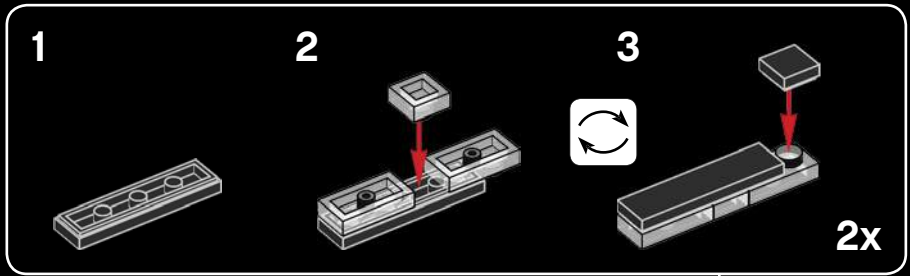


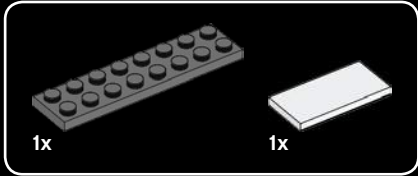
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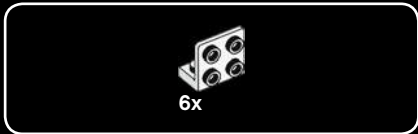
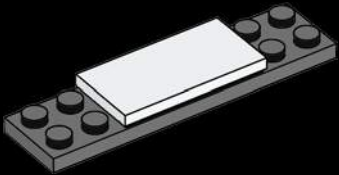


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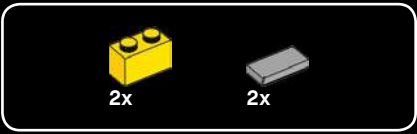
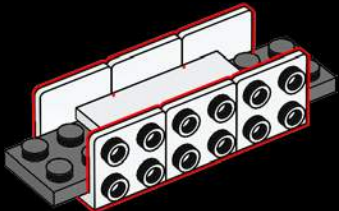




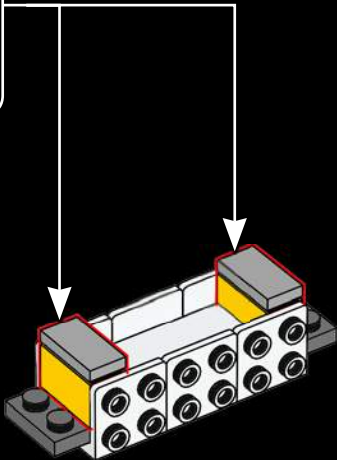
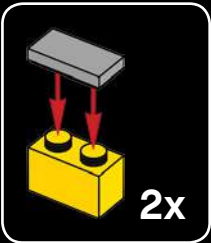
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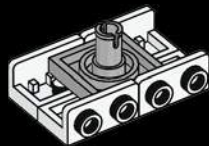
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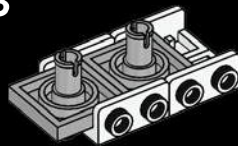
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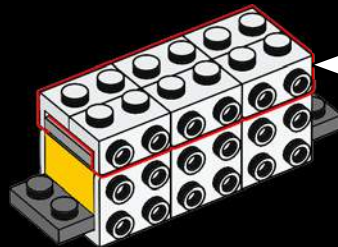
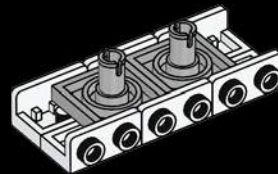
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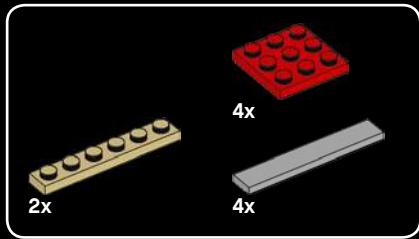


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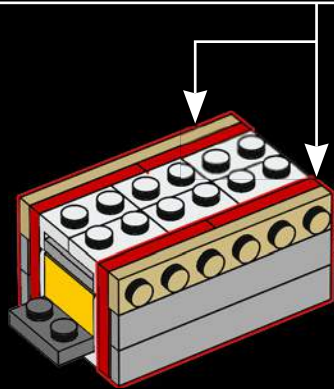
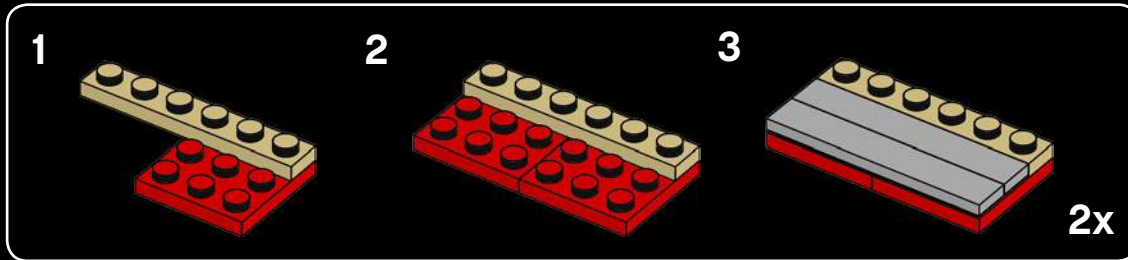


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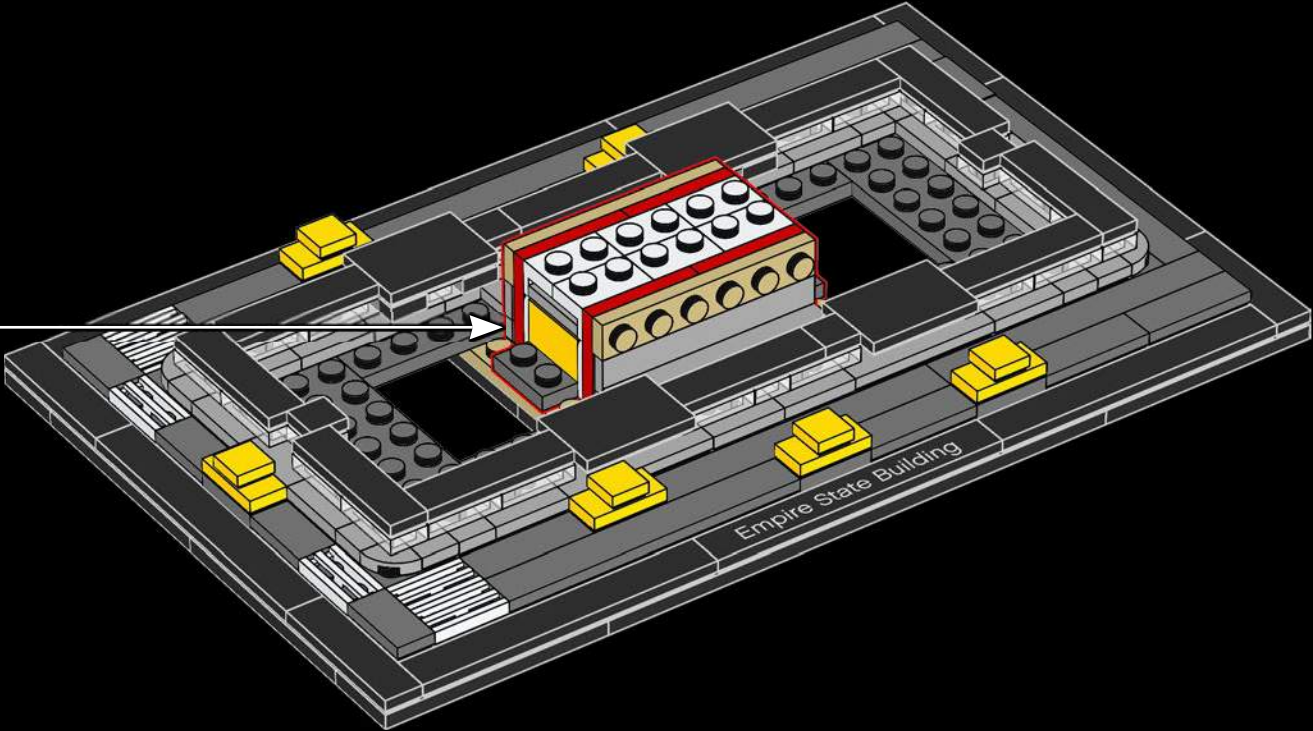
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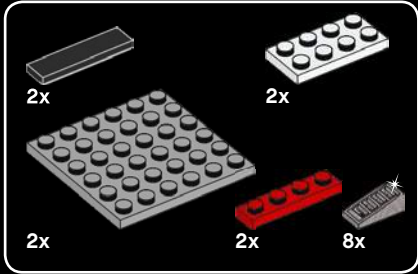


The Empire State Building has 68 modernized, high-speed elevators that transport passengers to their destinations up to 20-40% faster than conventional elevators in other modern commercial buildings. Using regenerated energy, as one elevator descends, the energy created powers the ascending elevators.



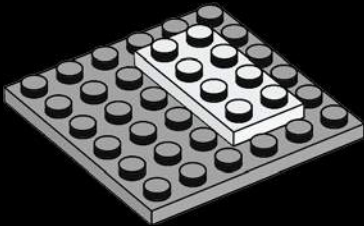
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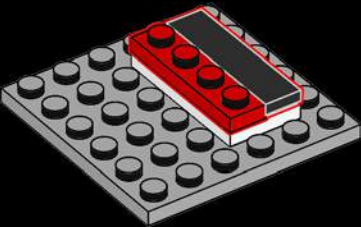


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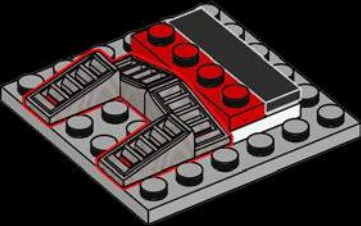
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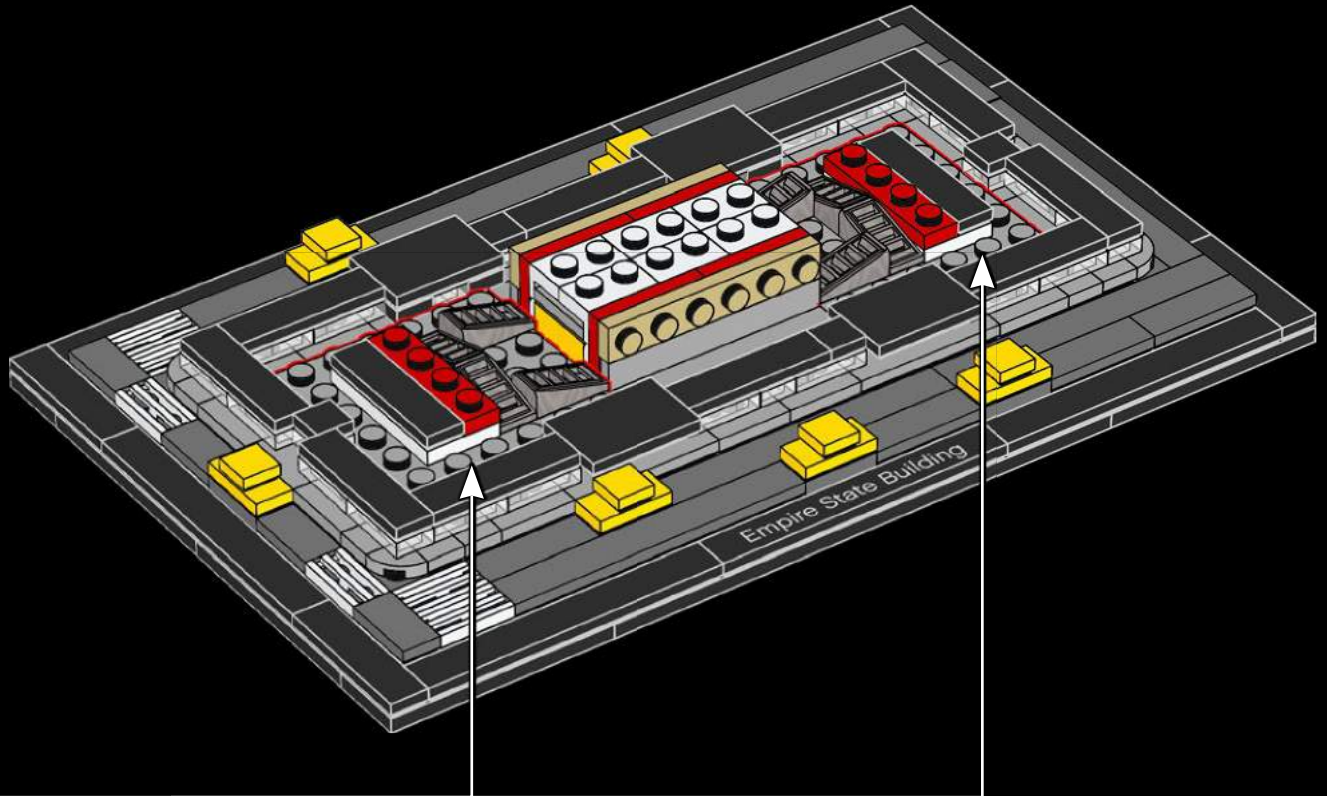


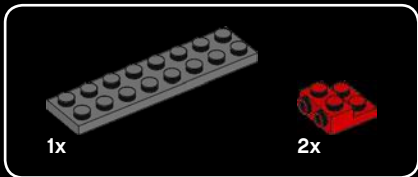
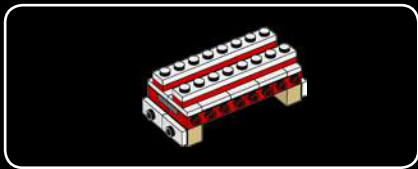
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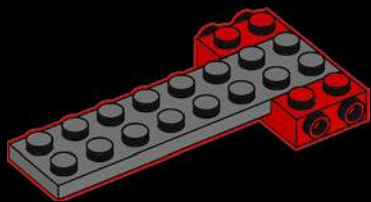
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There are eight high-speed escalators in the building's  
concourse and second floor areas.





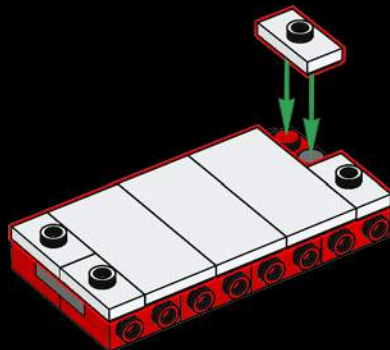
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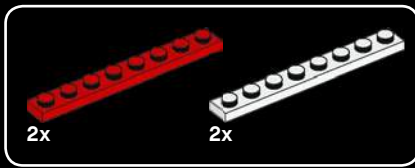


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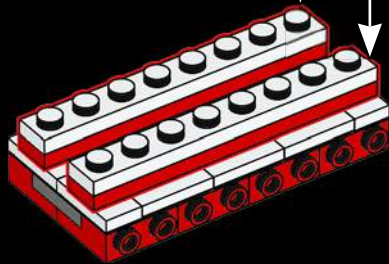
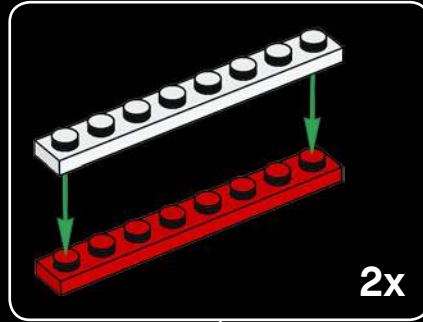


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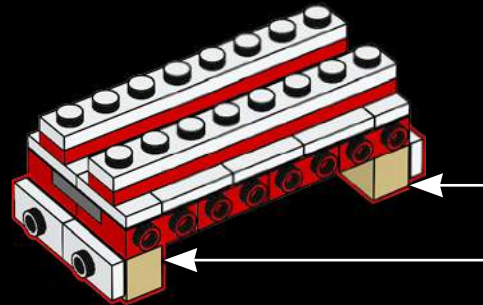
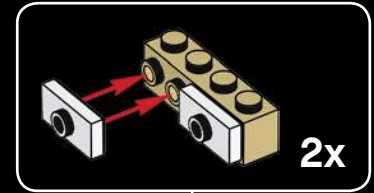




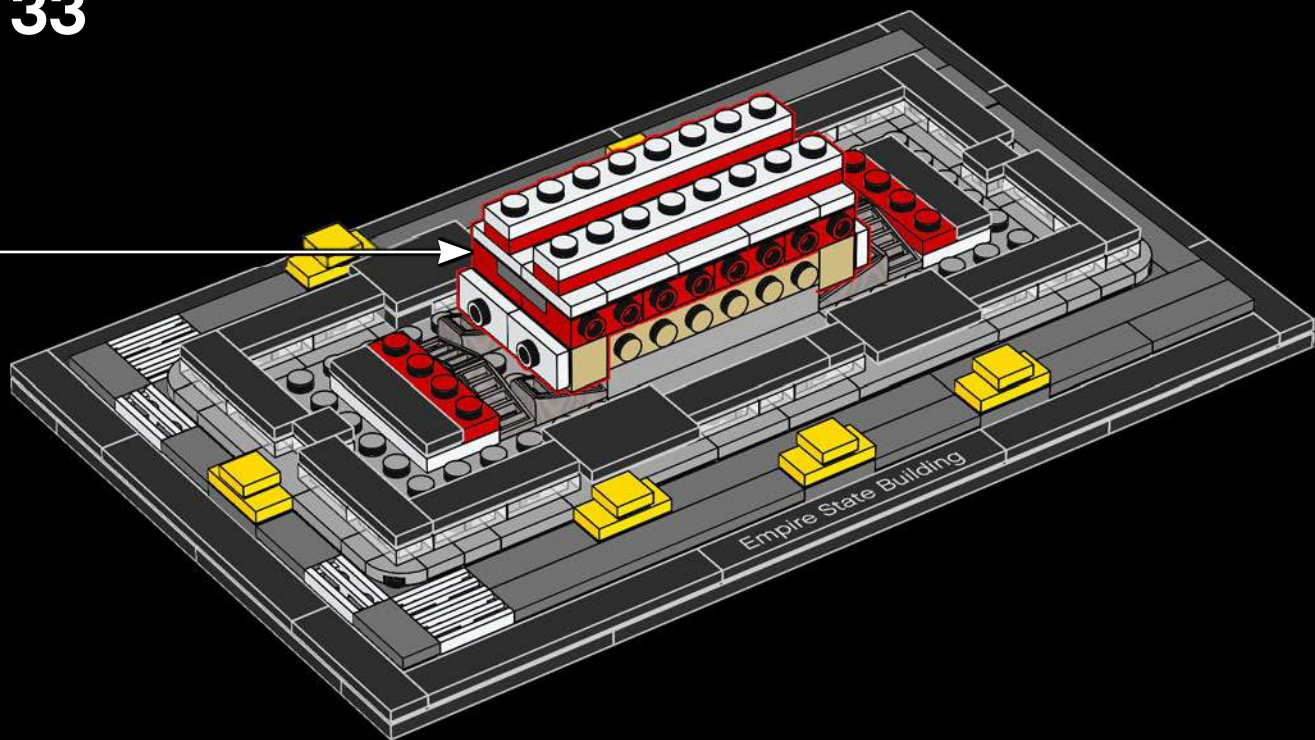
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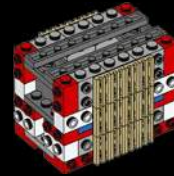
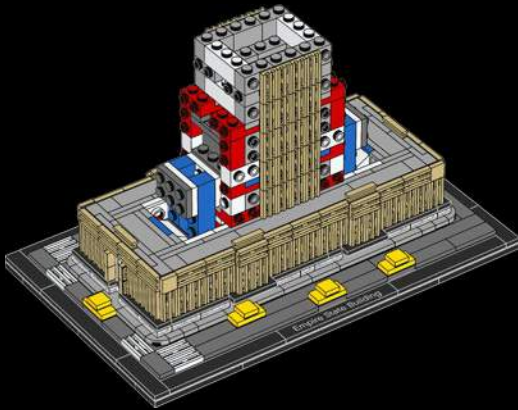
32



33



2



1x



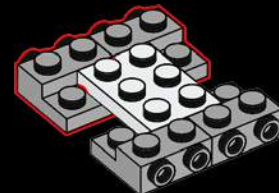
2x

34



2x

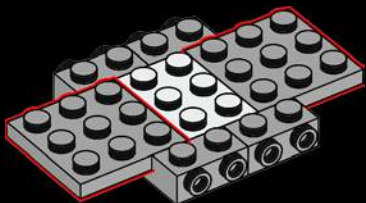
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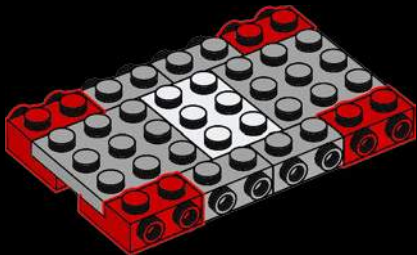
2x

36



4x

37

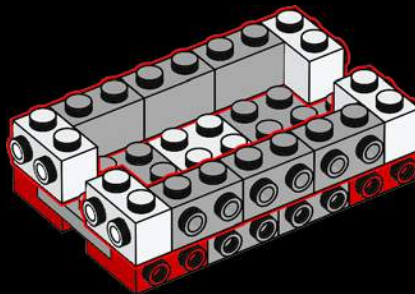


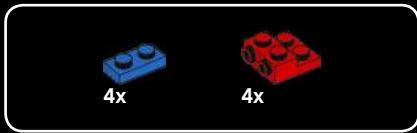
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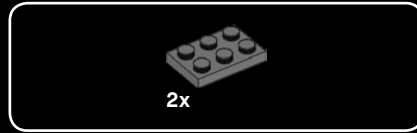
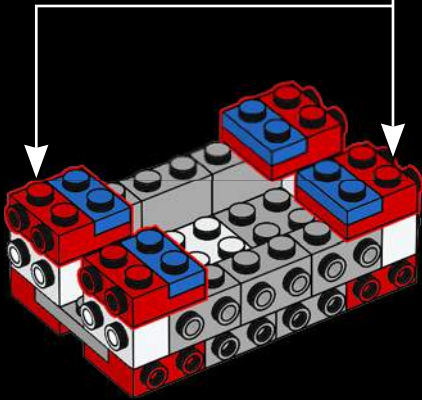
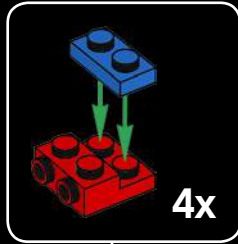
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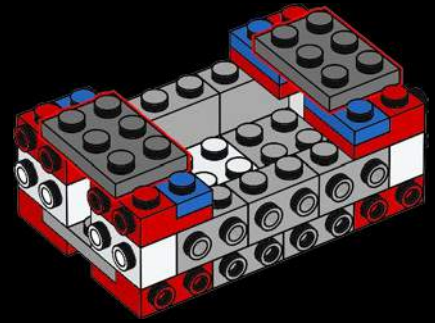




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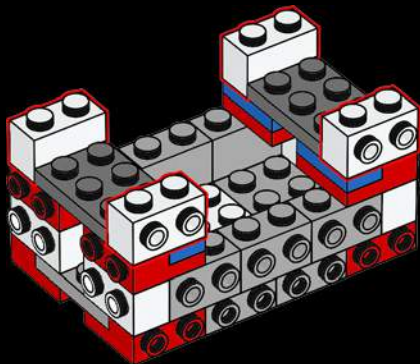
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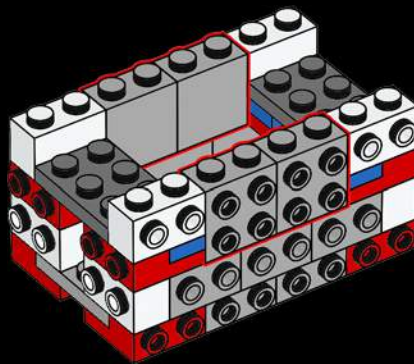
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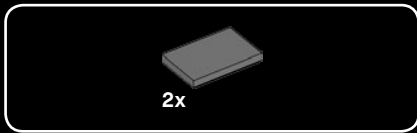
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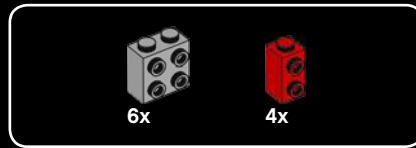
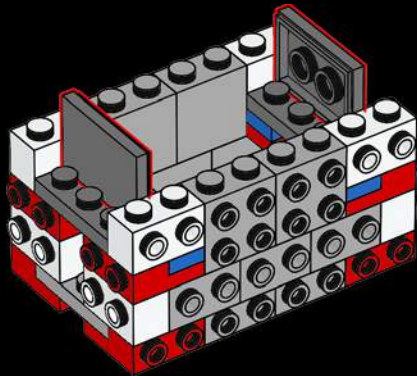
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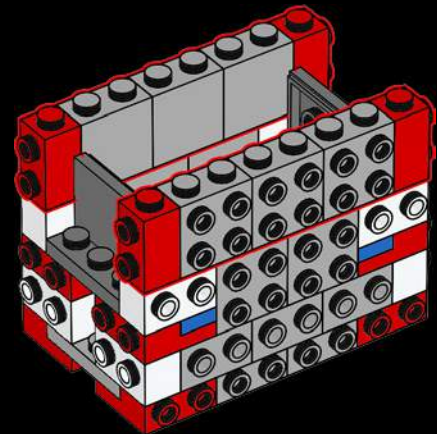


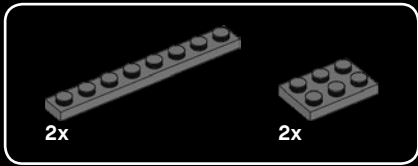


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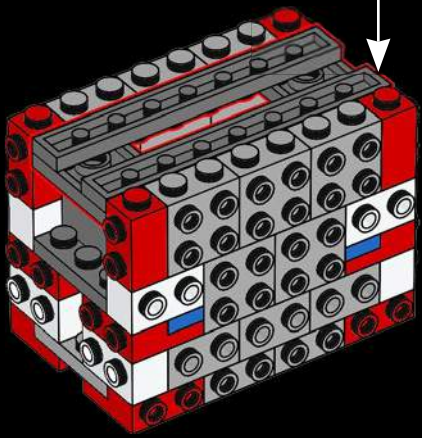
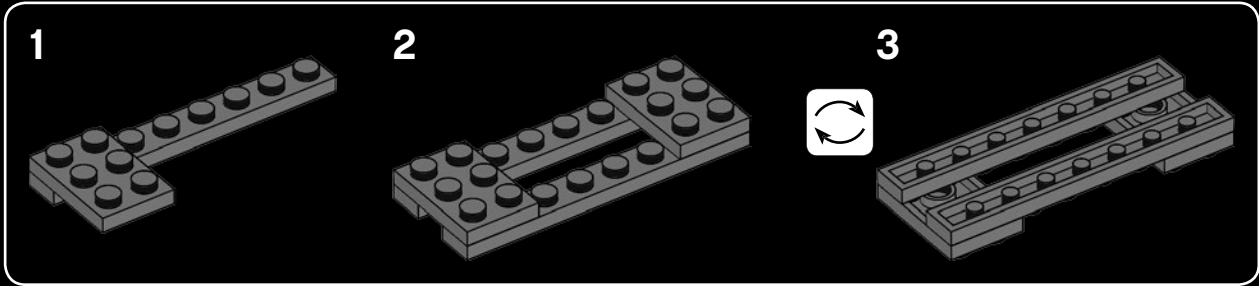


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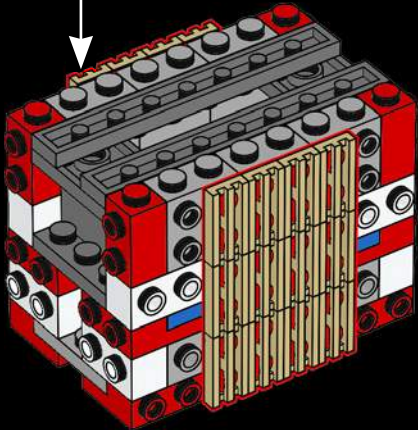


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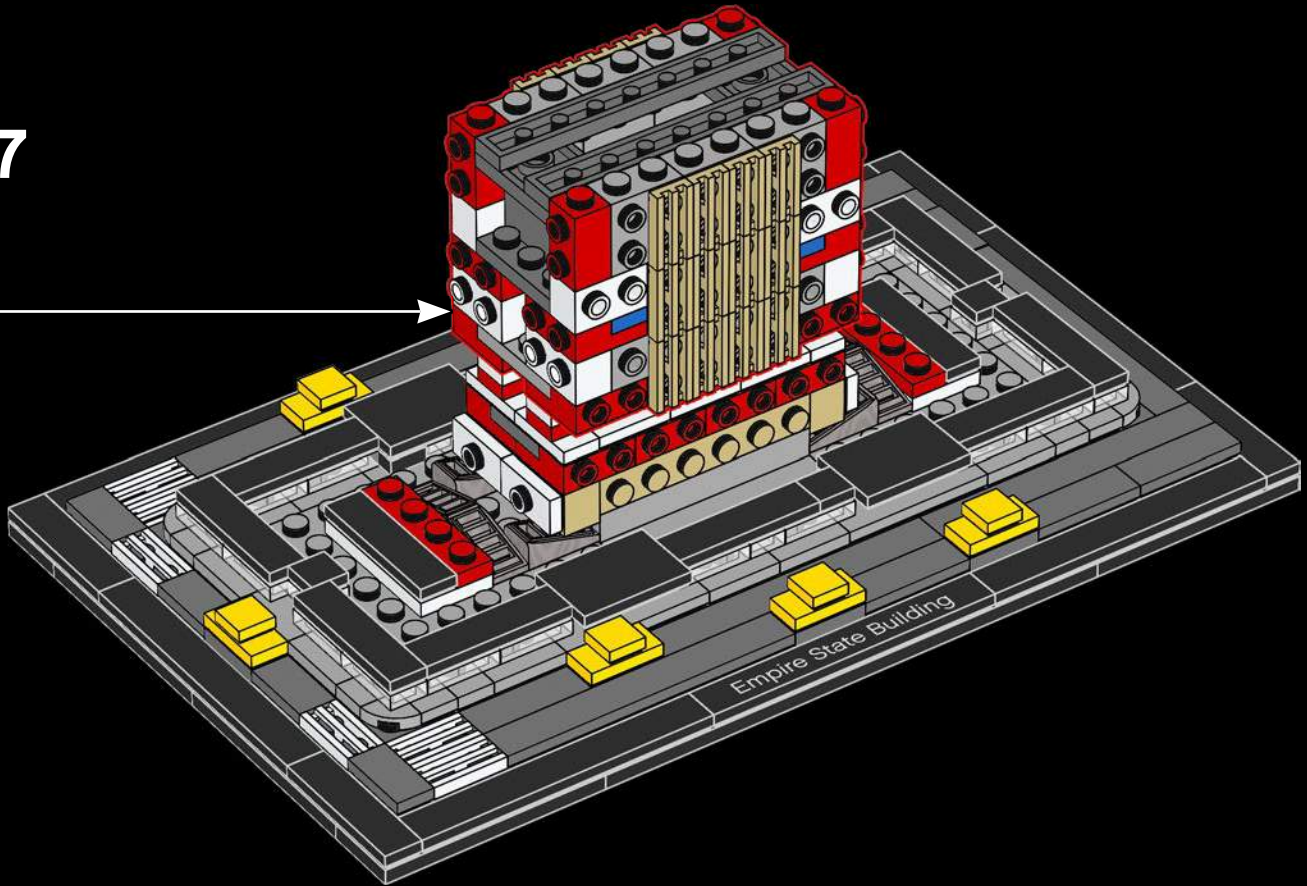




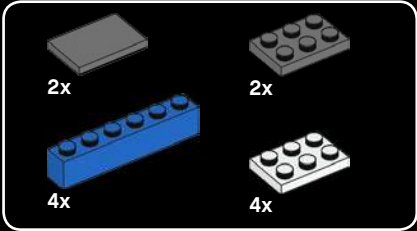
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47

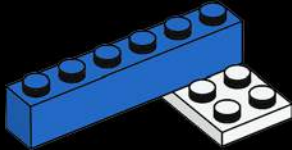


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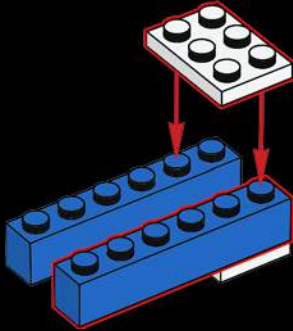


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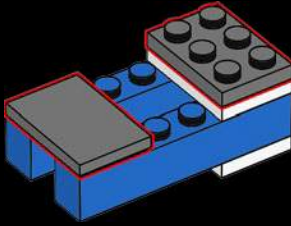
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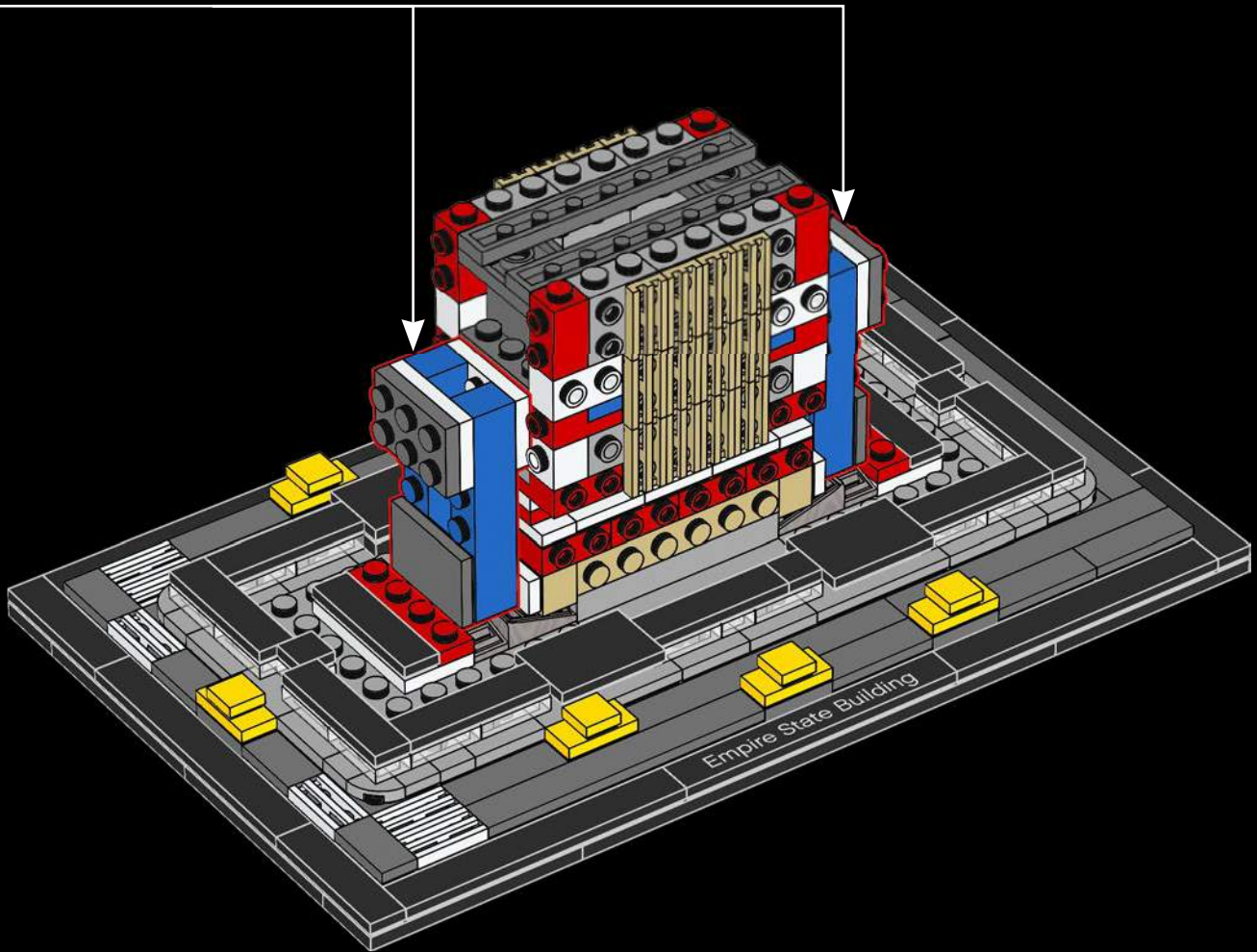
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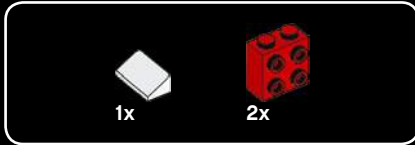
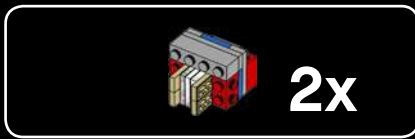


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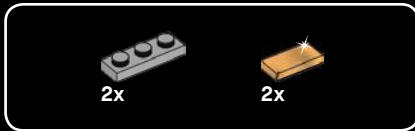
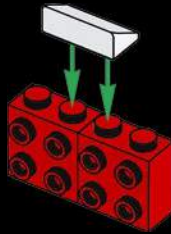


2x

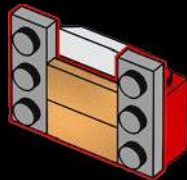




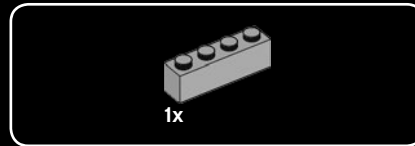
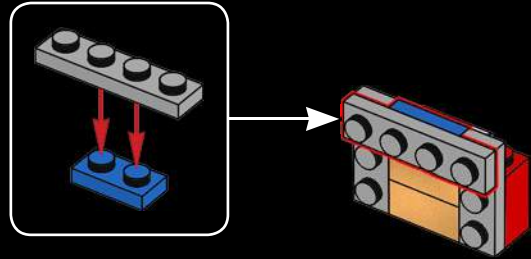
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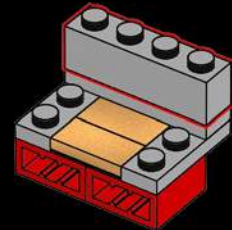
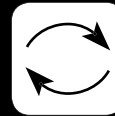
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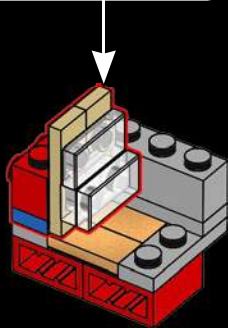
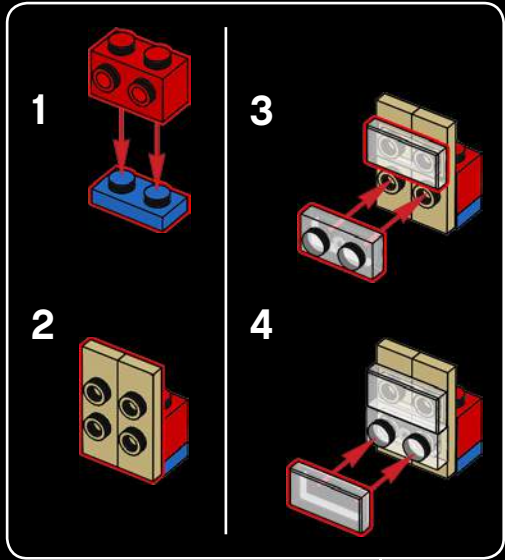


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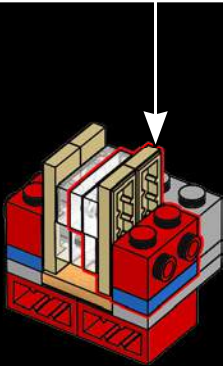
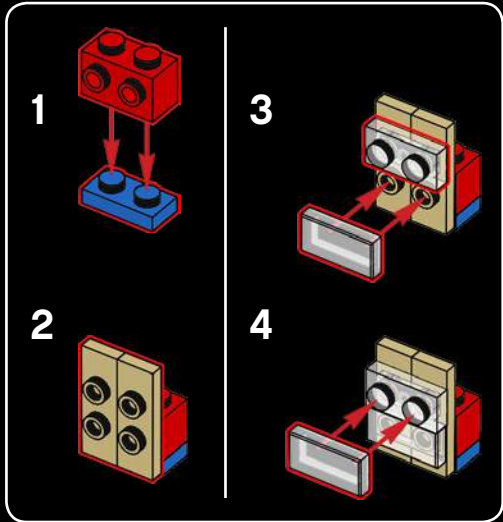




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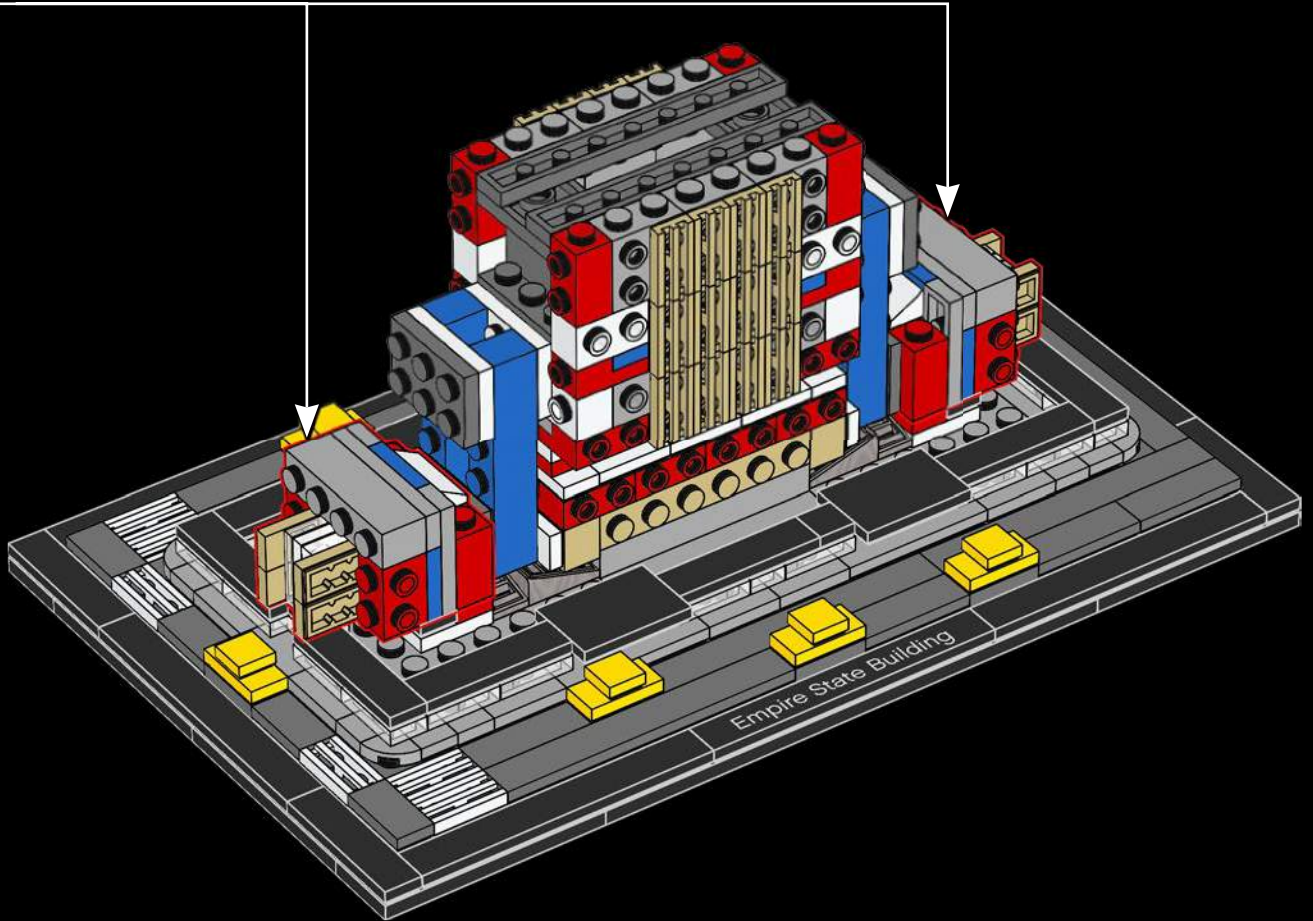


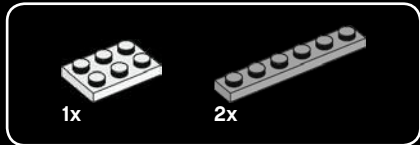
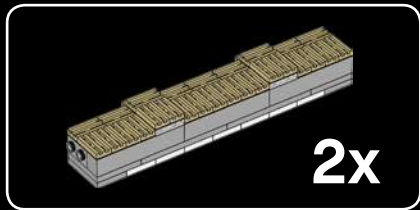
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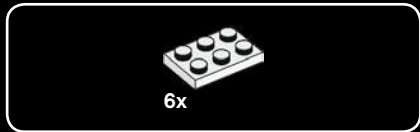
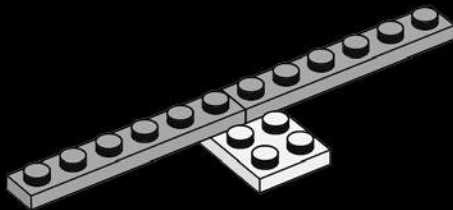
**2x**

The Famous Art Deco lobby includes an aluminum relief of the building. On the wall above the front desk in the Fifth Avenue lobby is one of the most famous images in New York City, a depiction of the building itself with beams of lights radiating from the mast.

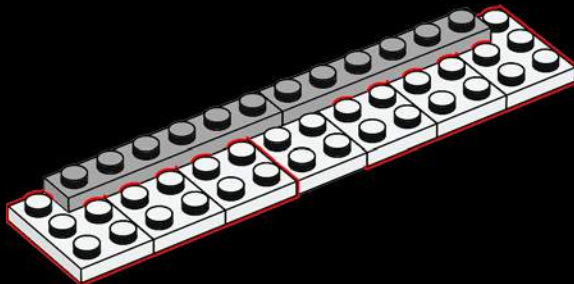


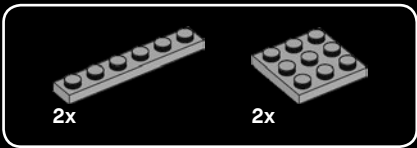


56

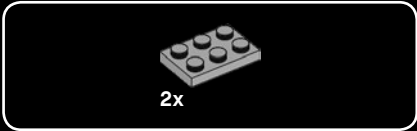
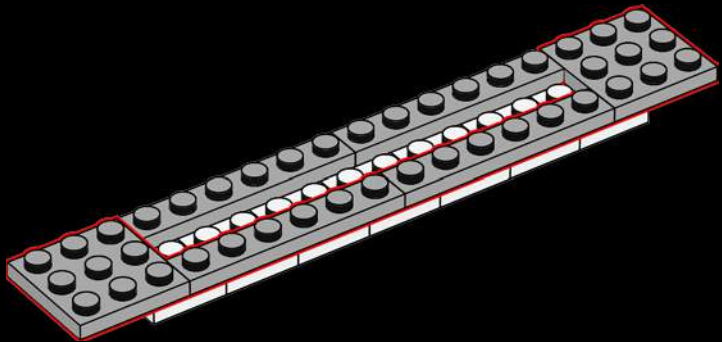


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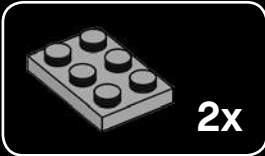
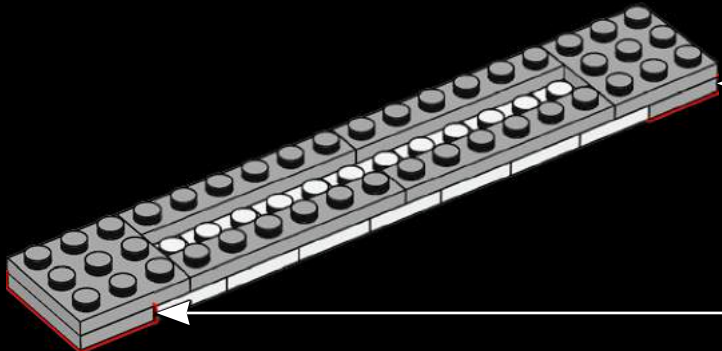


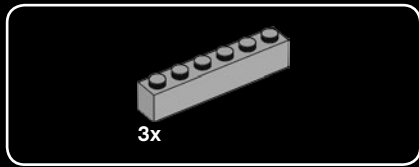


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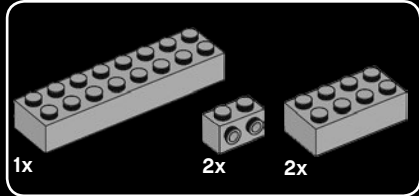
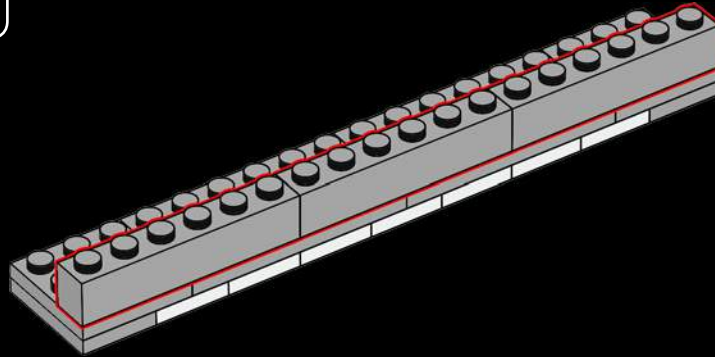


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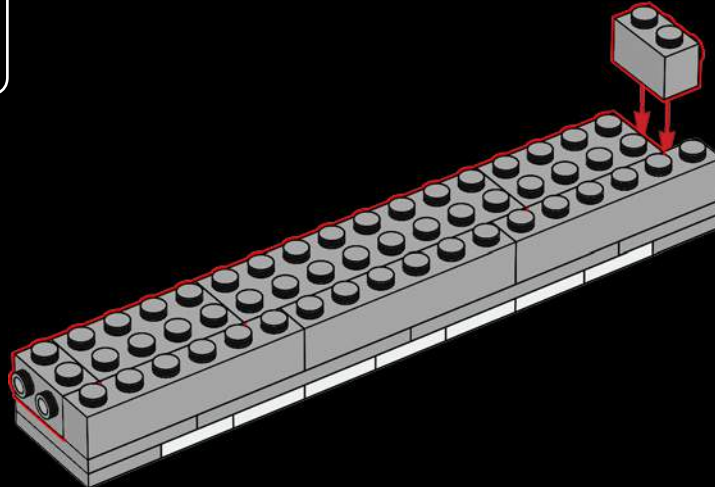




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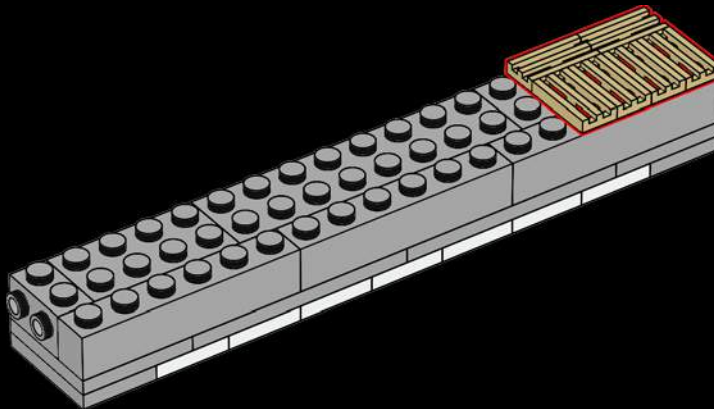


61

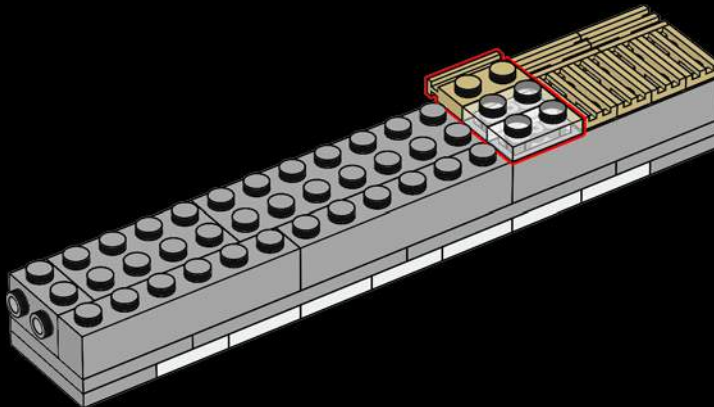




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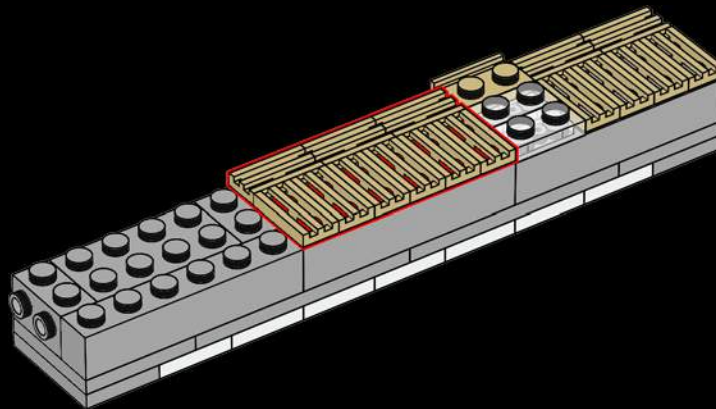
63





9x

64

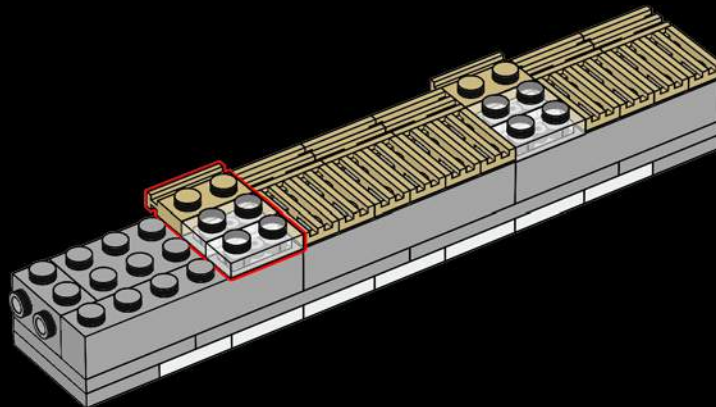


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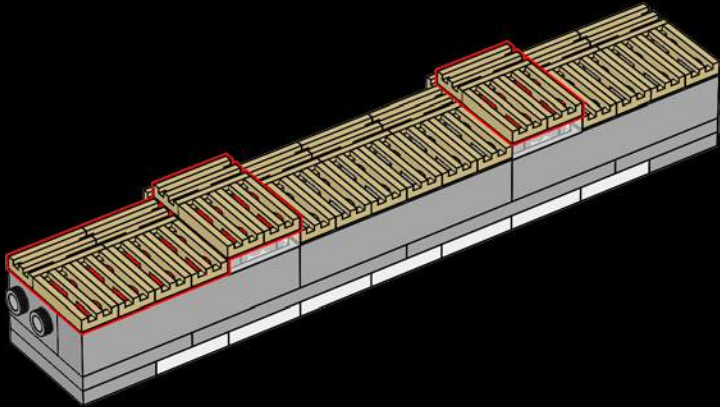
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65



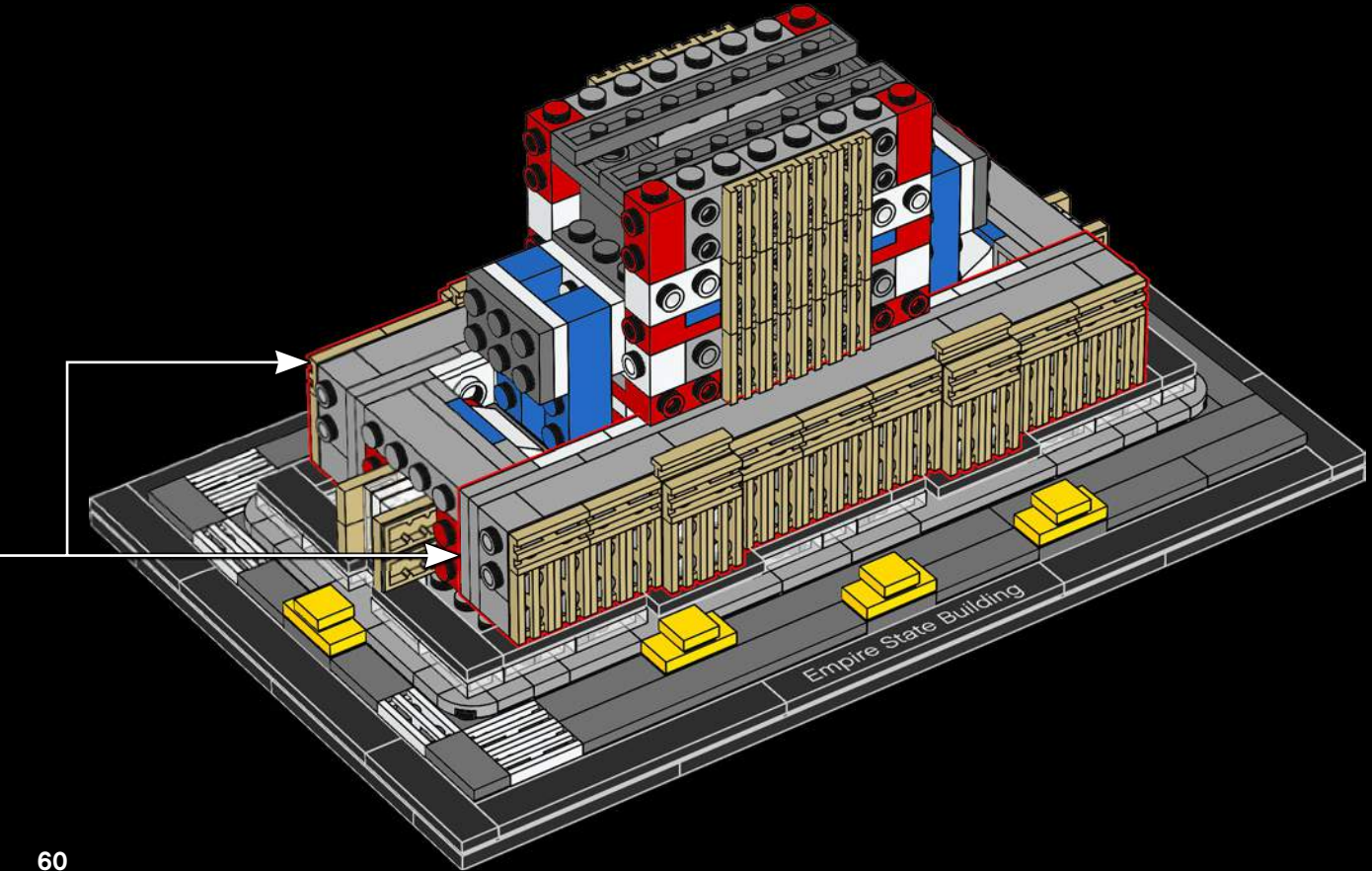


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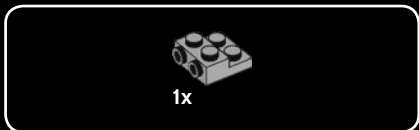


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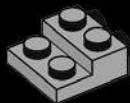
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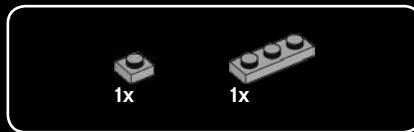
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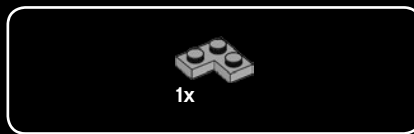
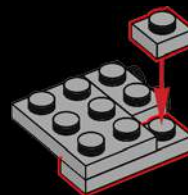
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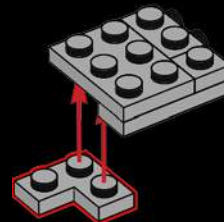
69



70



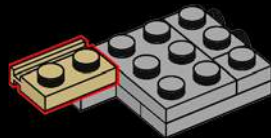
71





1x

# 72



1x



1x



1x



1x

# 73

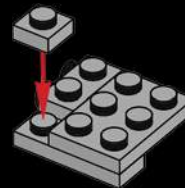
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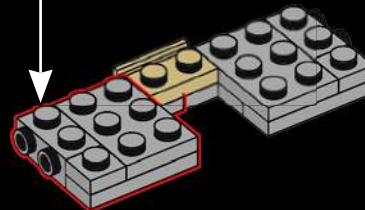
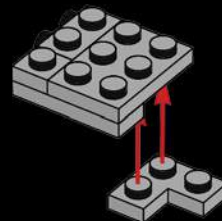
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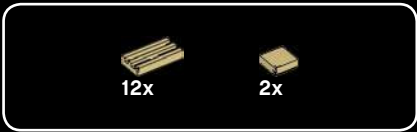


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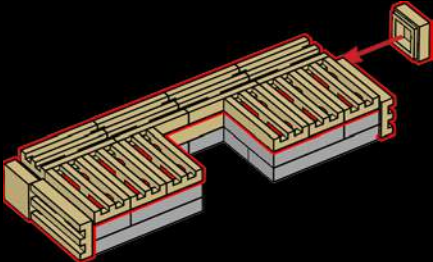


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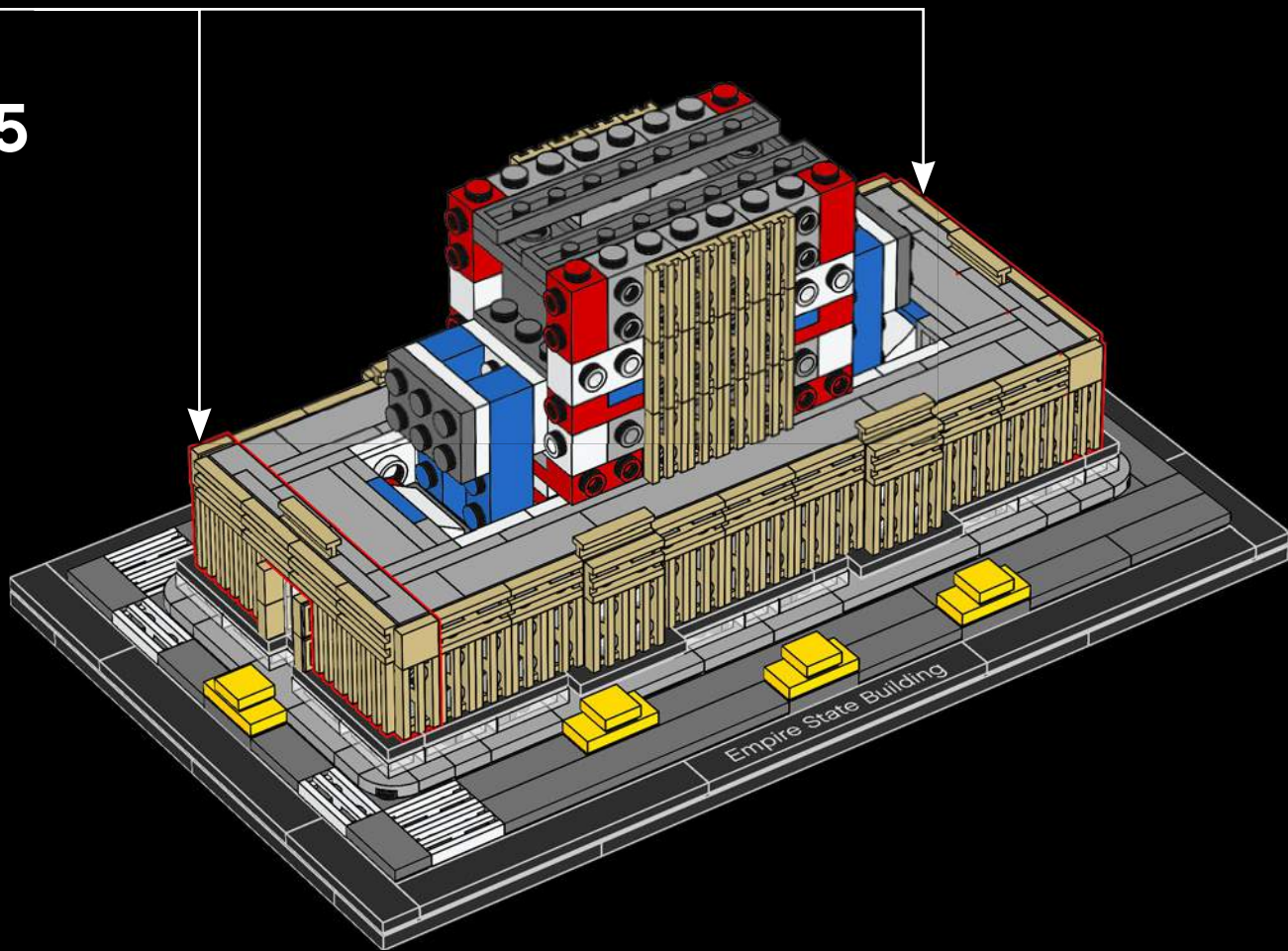


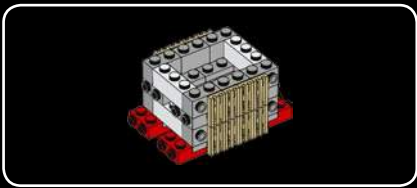
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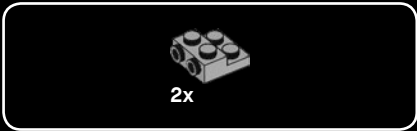
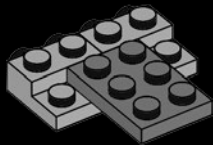
2x

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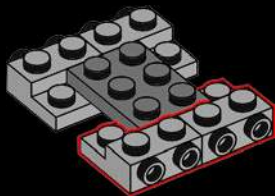




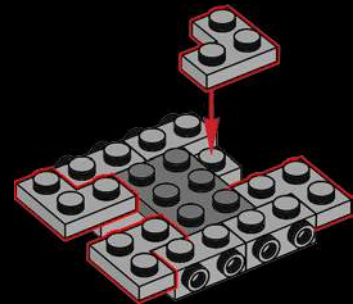
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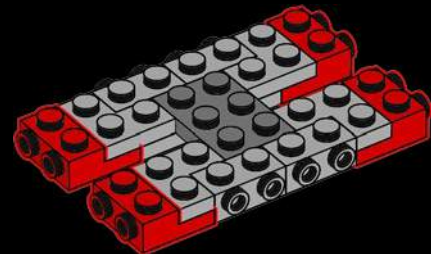
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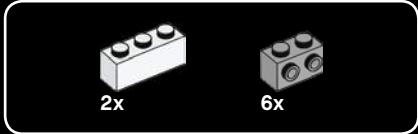


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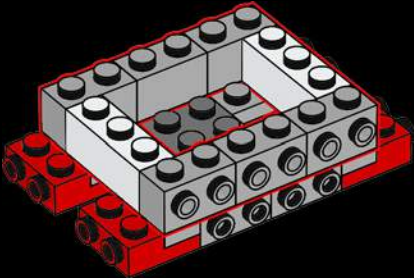


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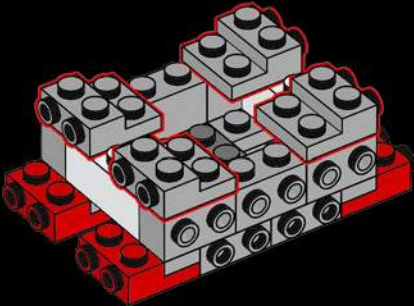




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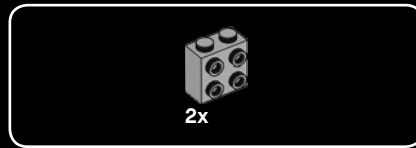
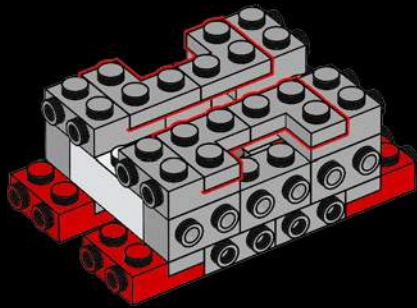


81

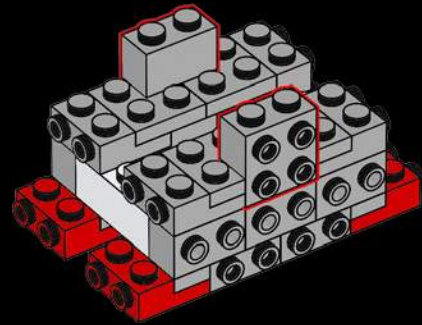


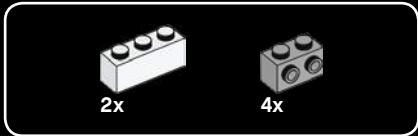


82

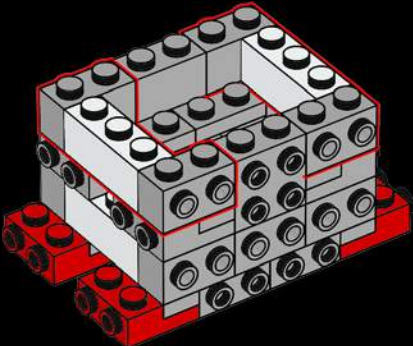


83

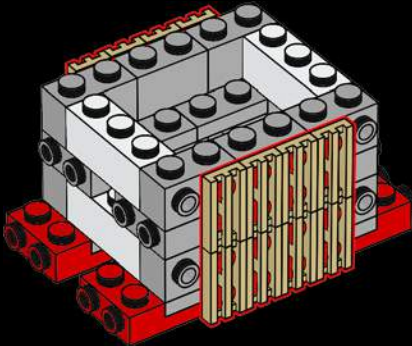




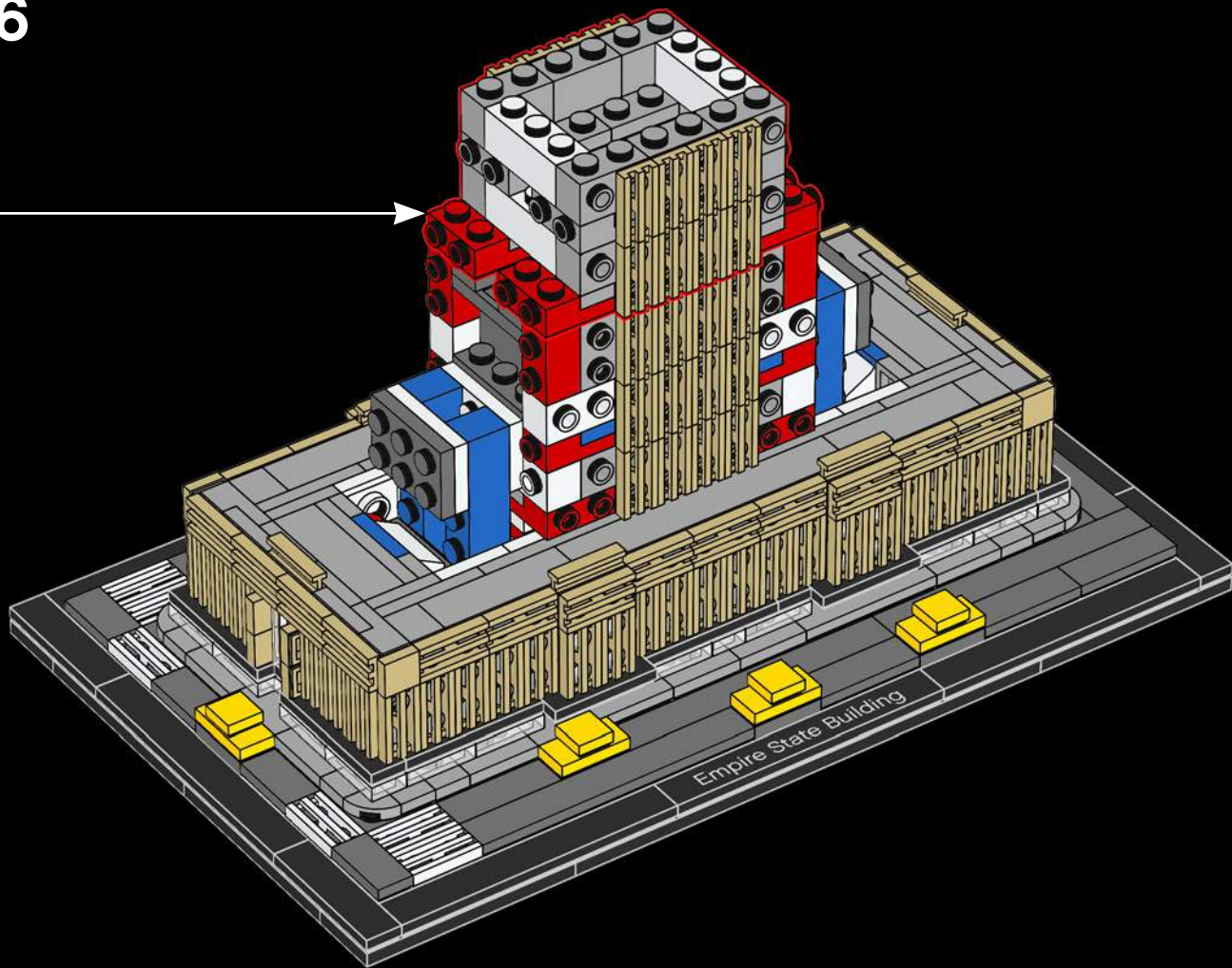
84

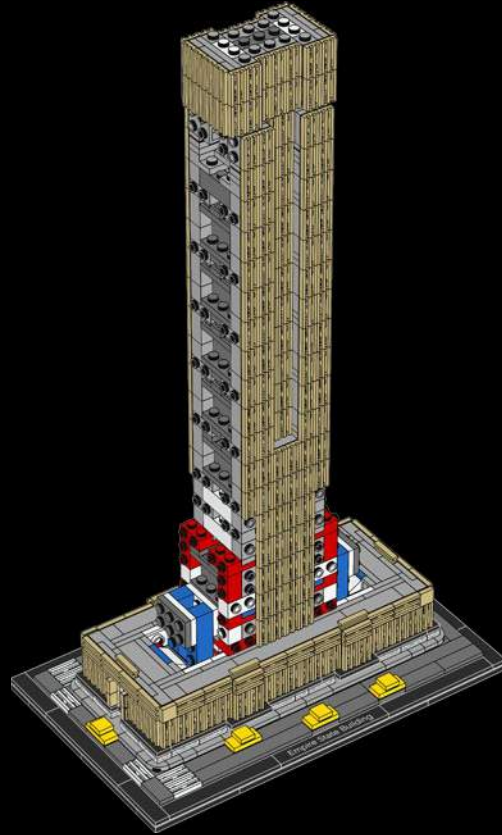


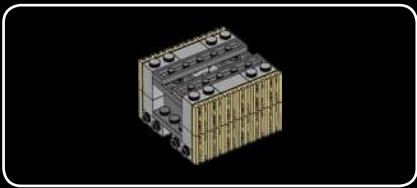
85



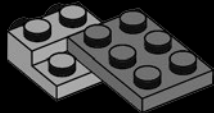
86



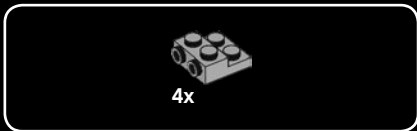
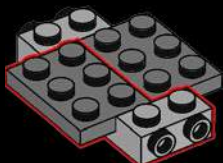




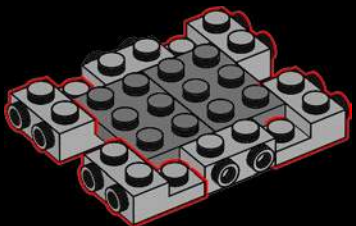
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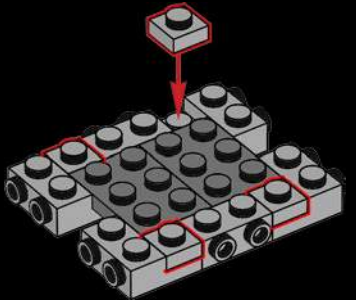
88



89



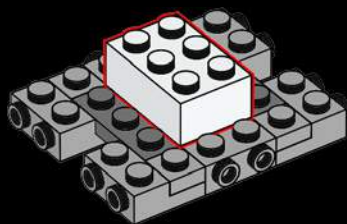
90





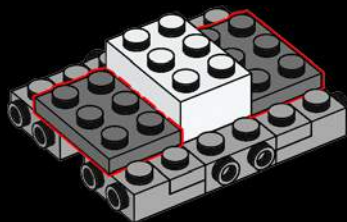
1x

91



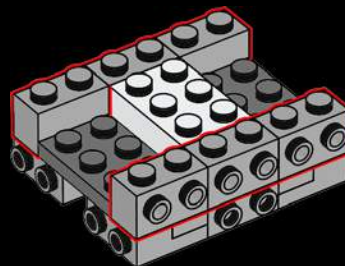
2x

92



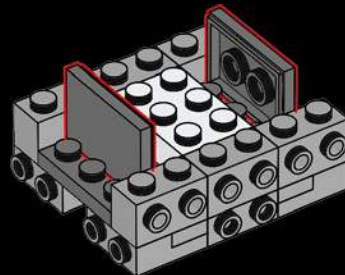
6x

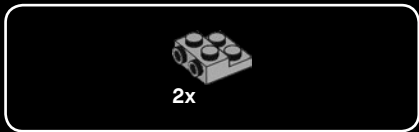
93



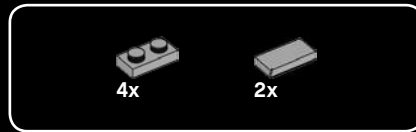
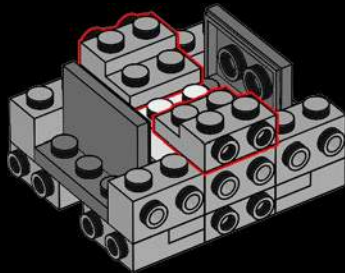
2x

94

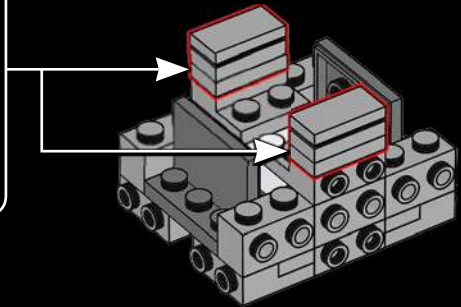
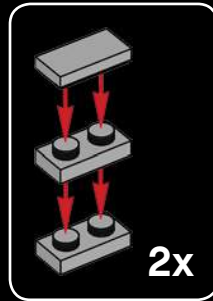




95



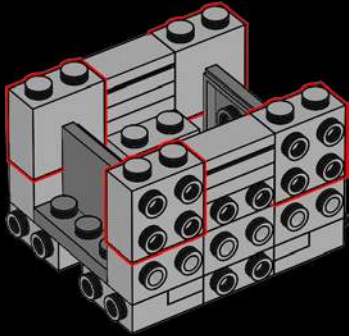
96





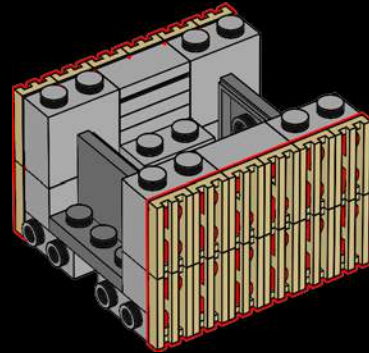
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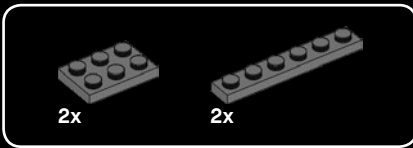
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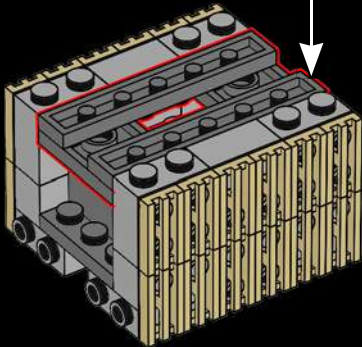
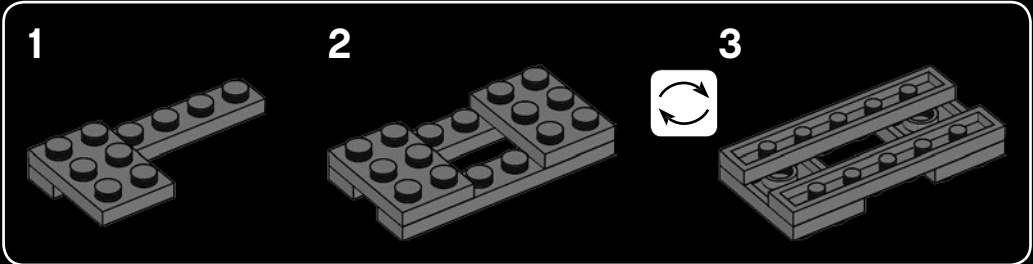
24x

98

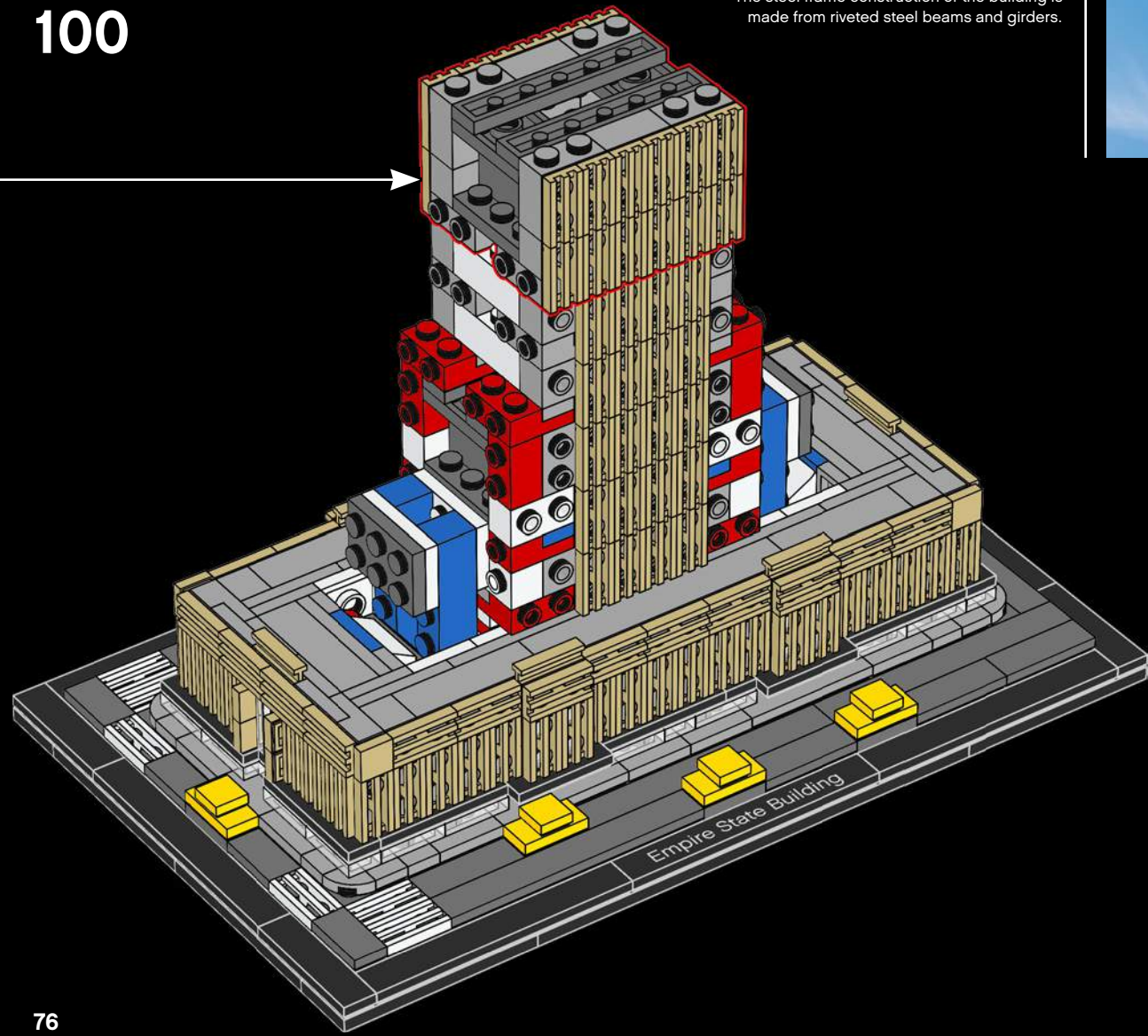


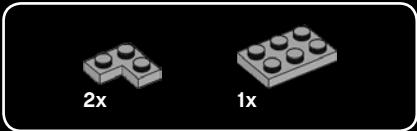
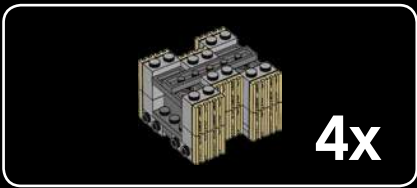


99

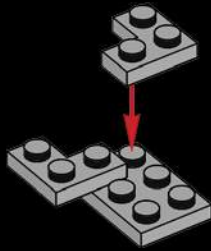


The steel frame construction of the building is made from riveted steel beams and girders.

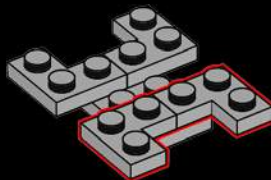




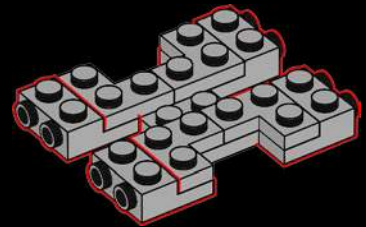
101



102



103





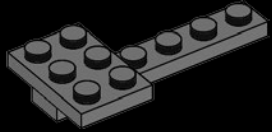
2x



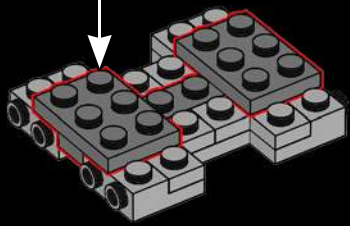
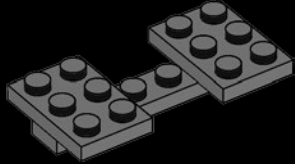
1x

# 104

1

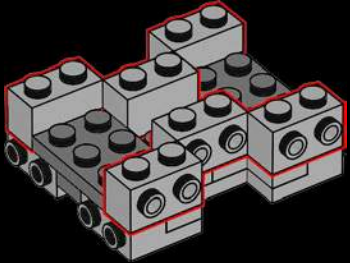


2



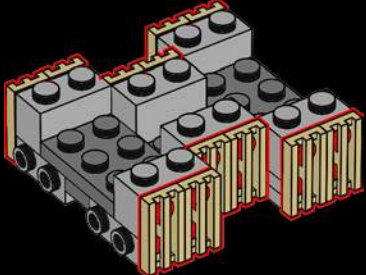
6x

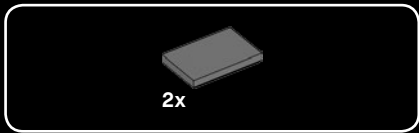
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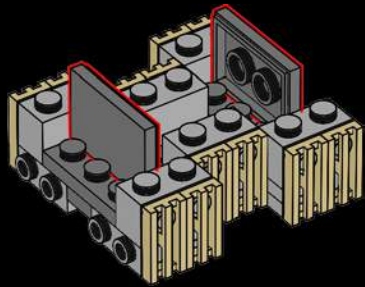
12x

# 106

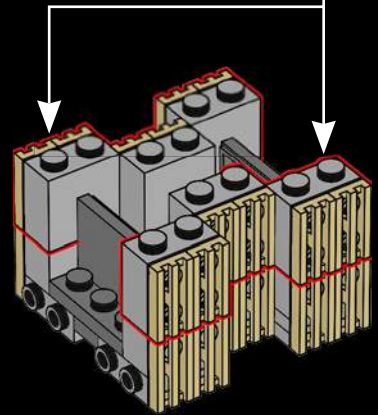
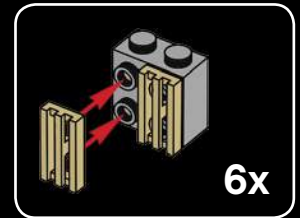


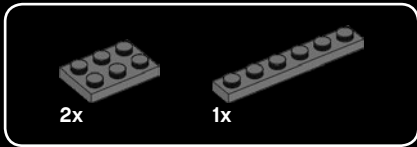


107

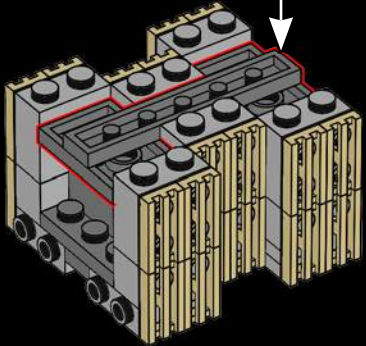
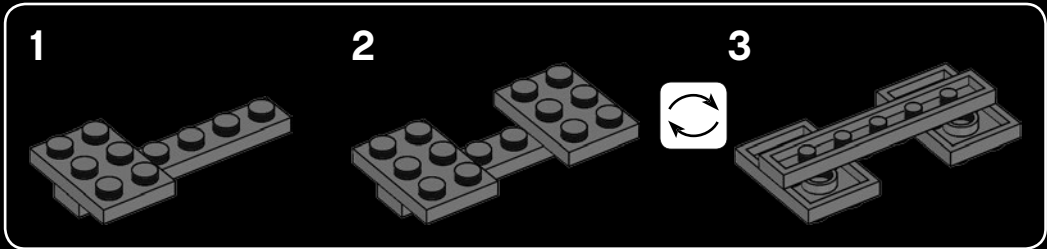


108



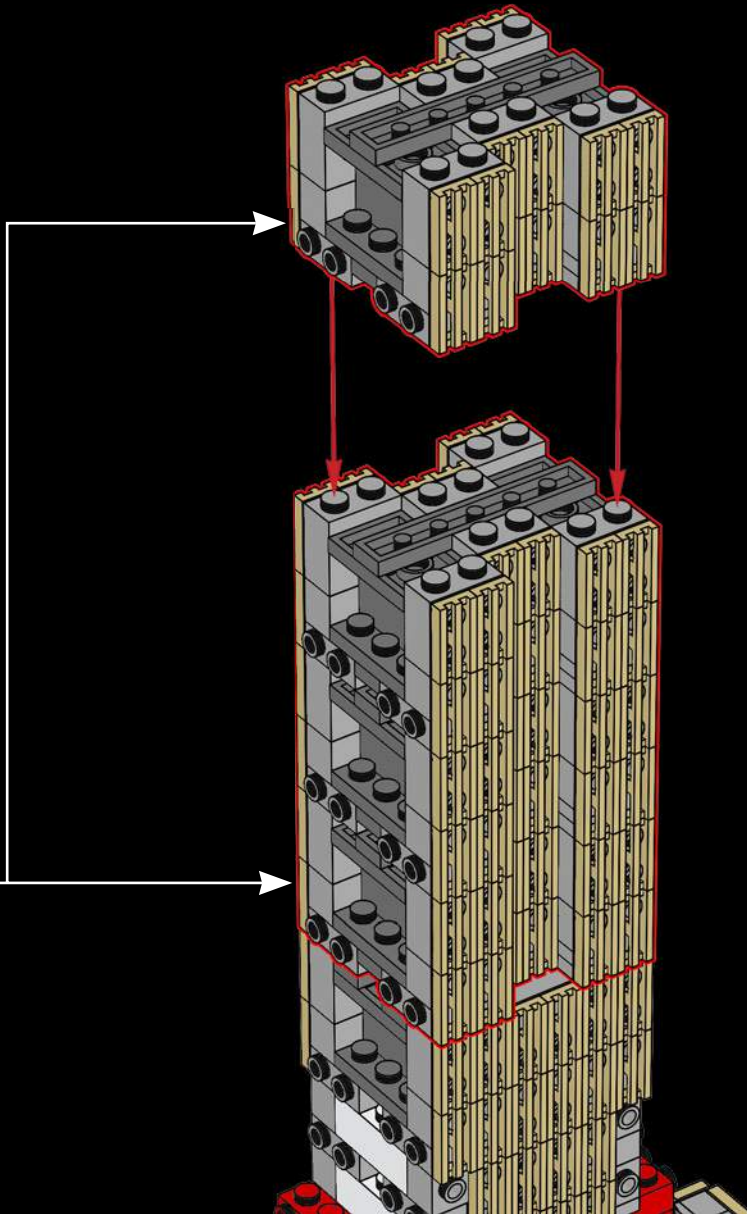


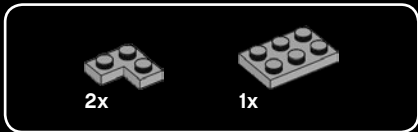
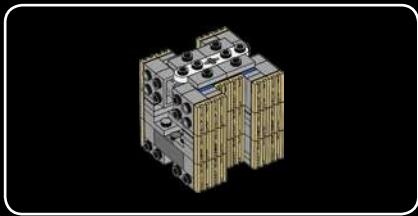
# 109



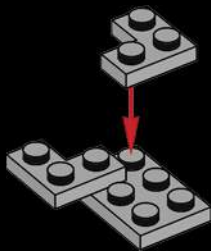
4x

110

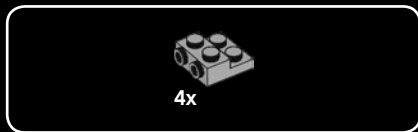
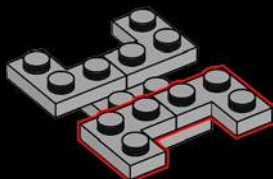




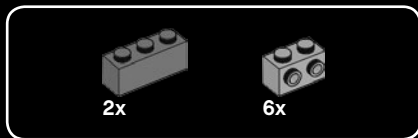
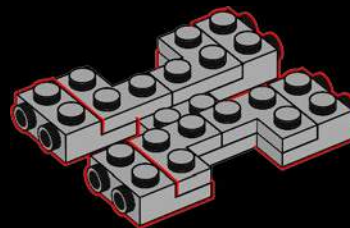
111



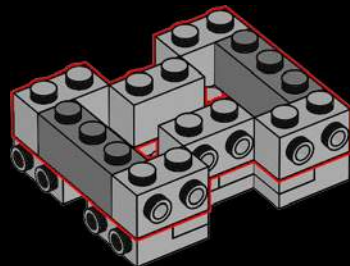
112

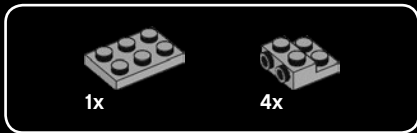


113

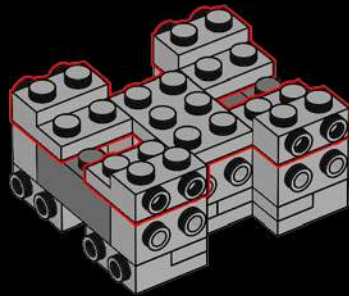


114

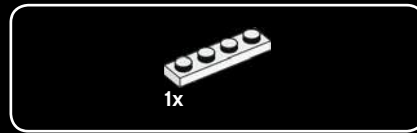
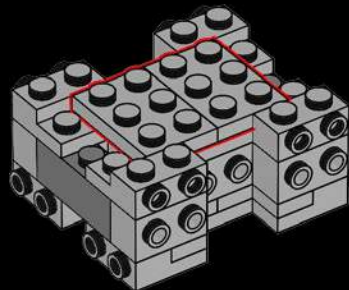




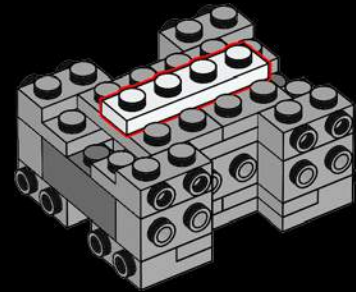
115

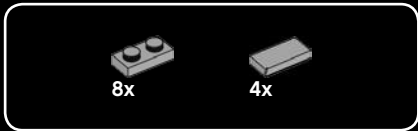


116

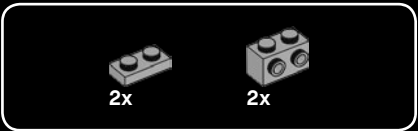
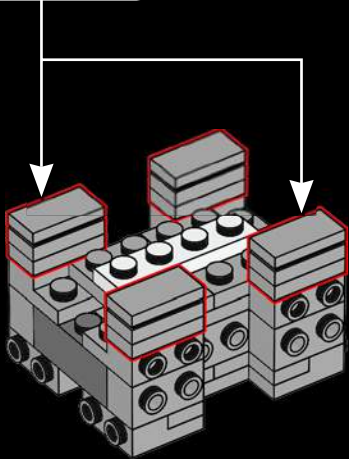
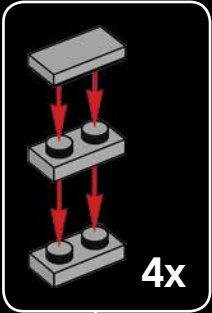


117

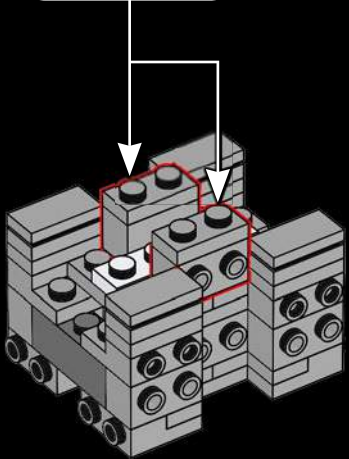
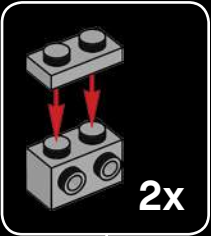


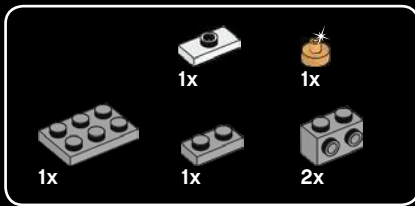


118

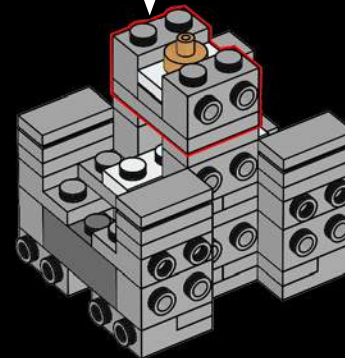
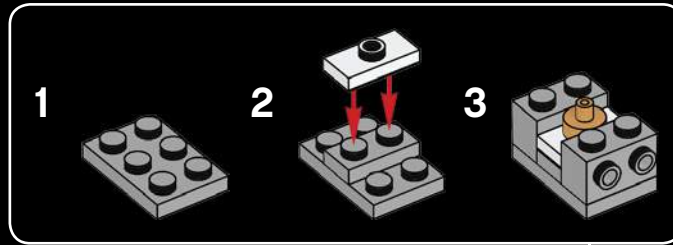


119





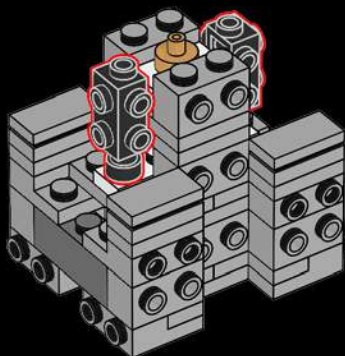
120





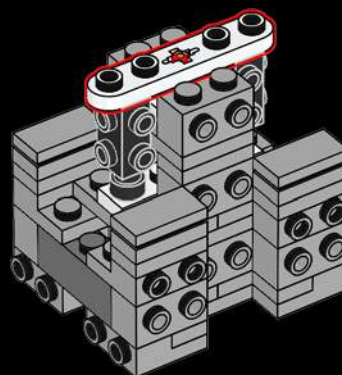
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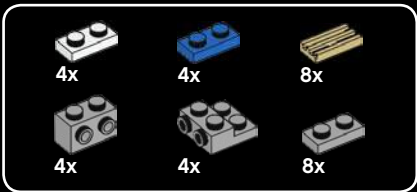
121



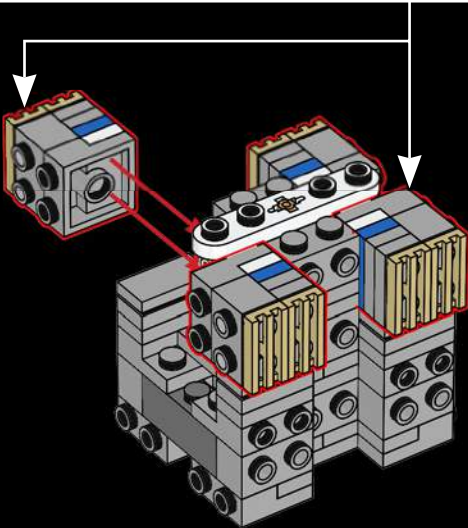
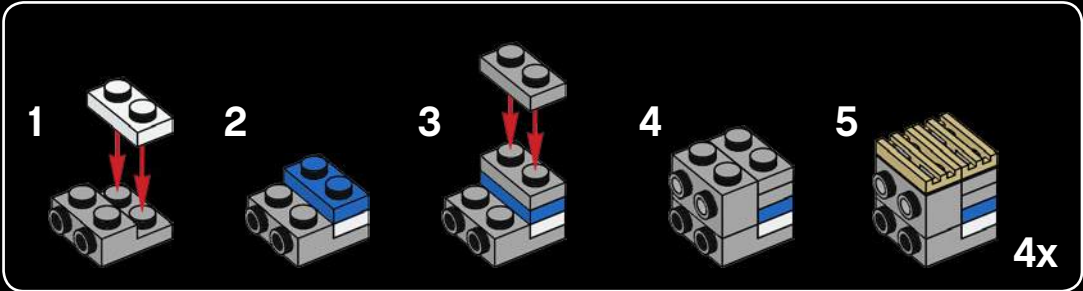
1x

122





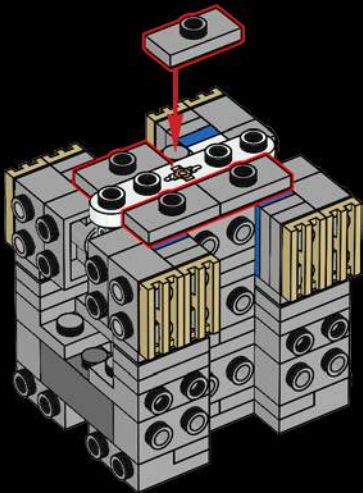
# 123





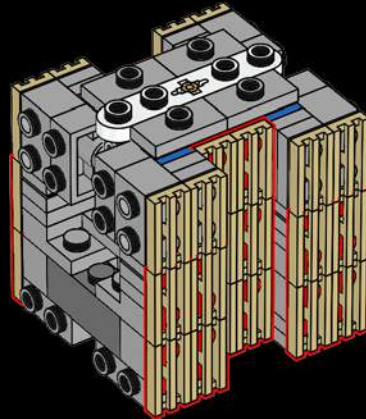
4x

# 124

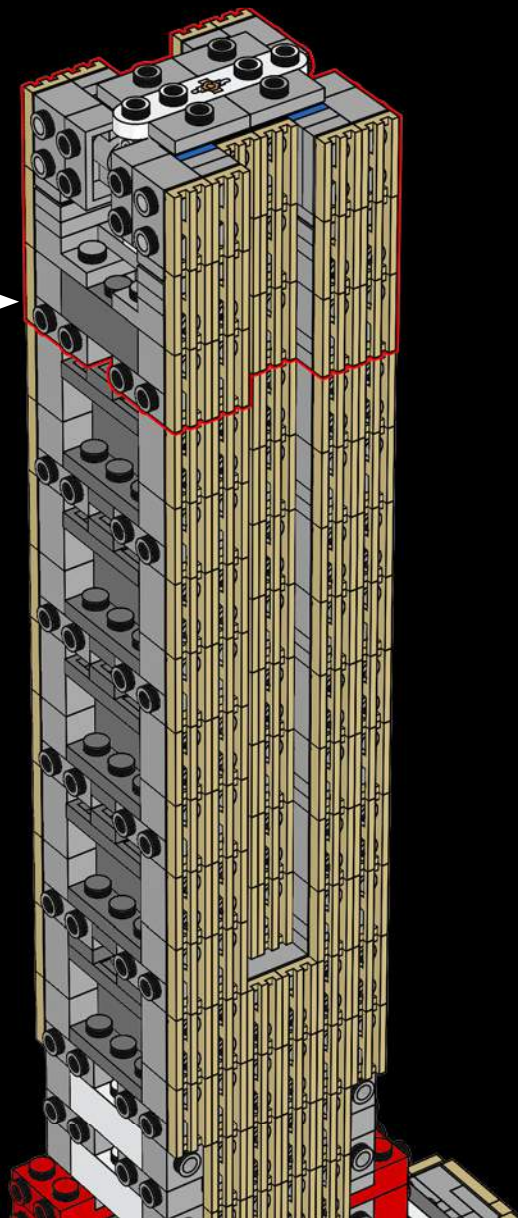


28x

# 125



126

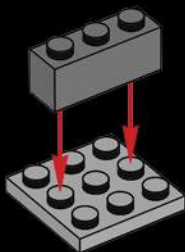




1x

1x

# 127

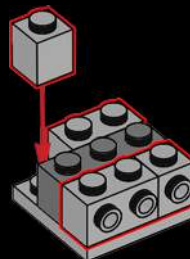


2x



2x

# 128

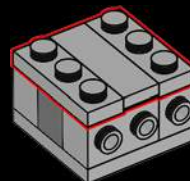


2x



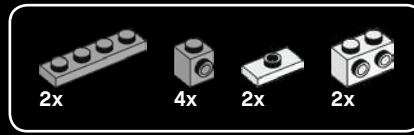
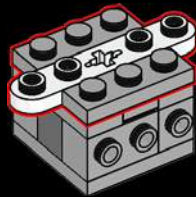
1x

# 129

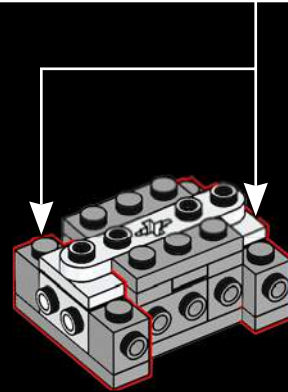
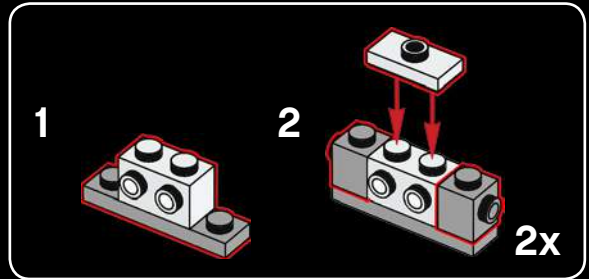




130



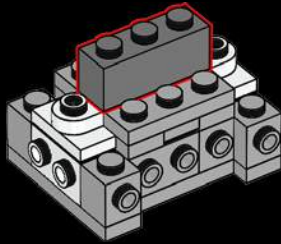
131





1x

# 132

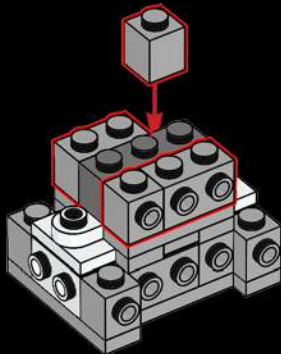


2x



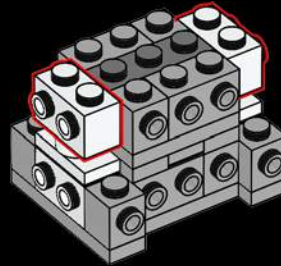
2x

# 133



2x

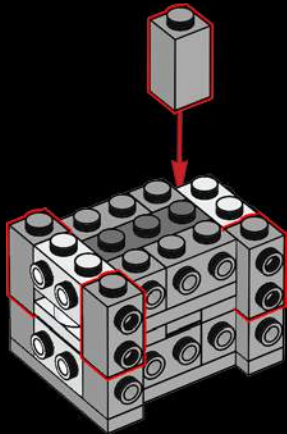
# 134





4x

# 135

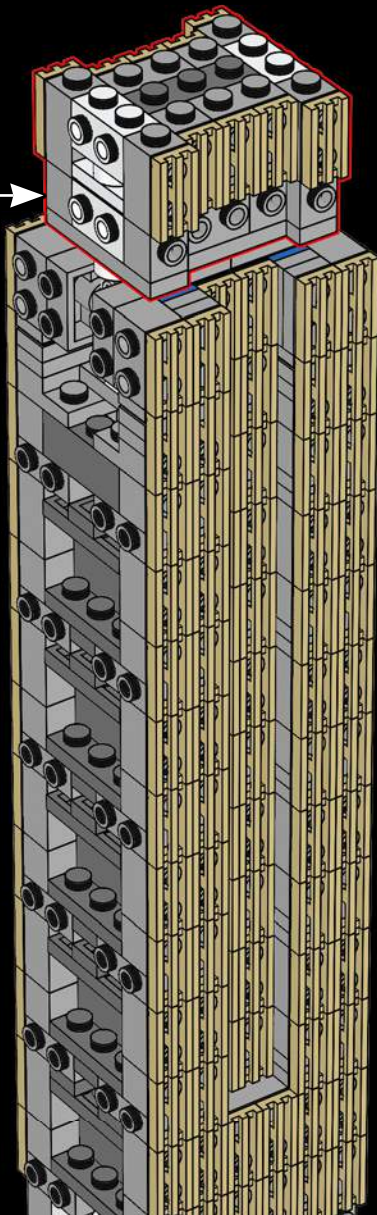


10x

# 136



137

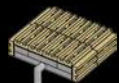




10x

138





2x



1x



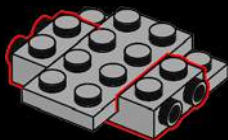
1x

# 139



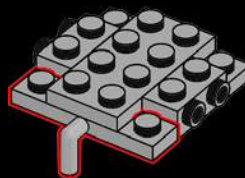
2x

# 140



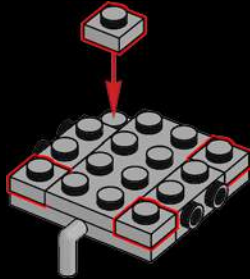
1x

# 141

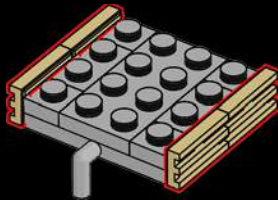




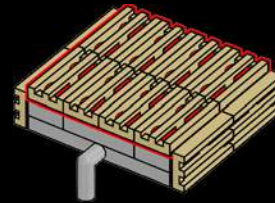
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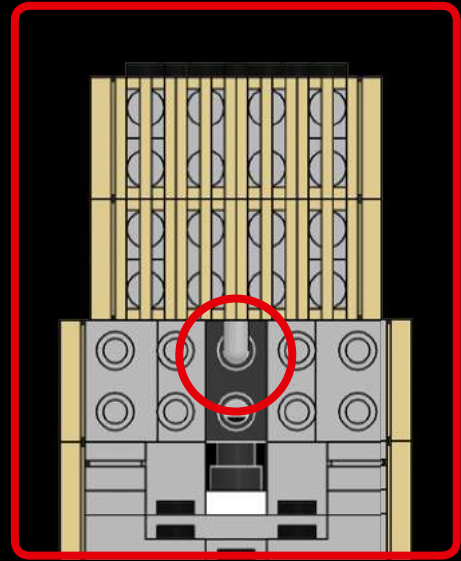
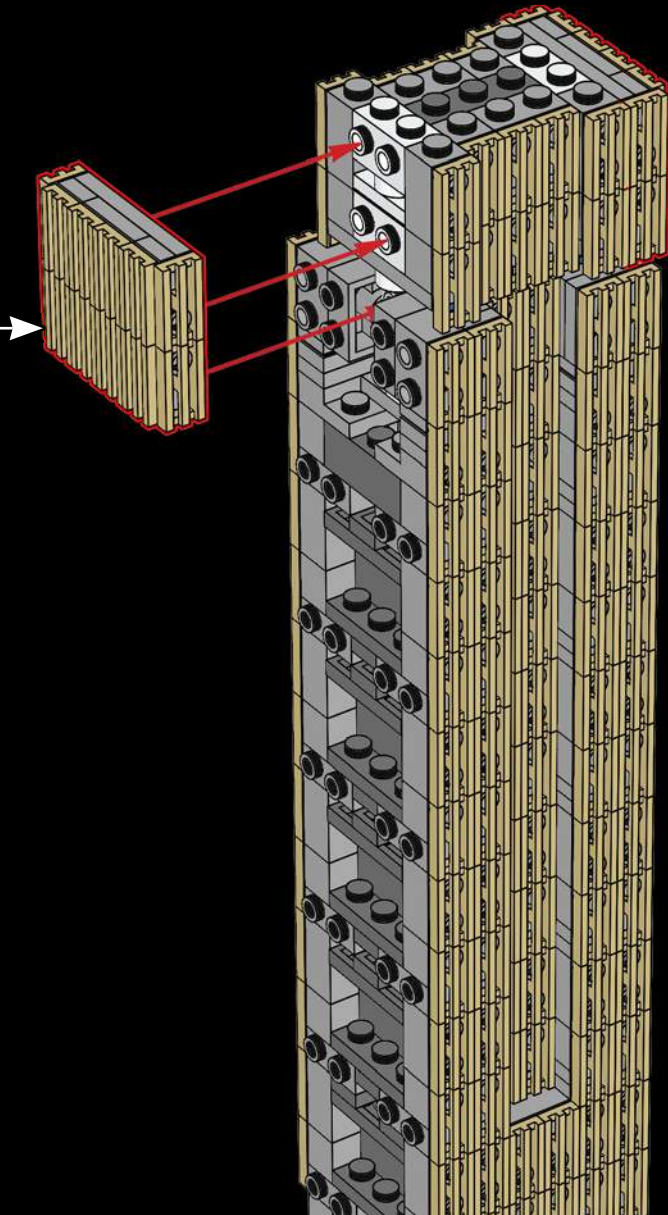
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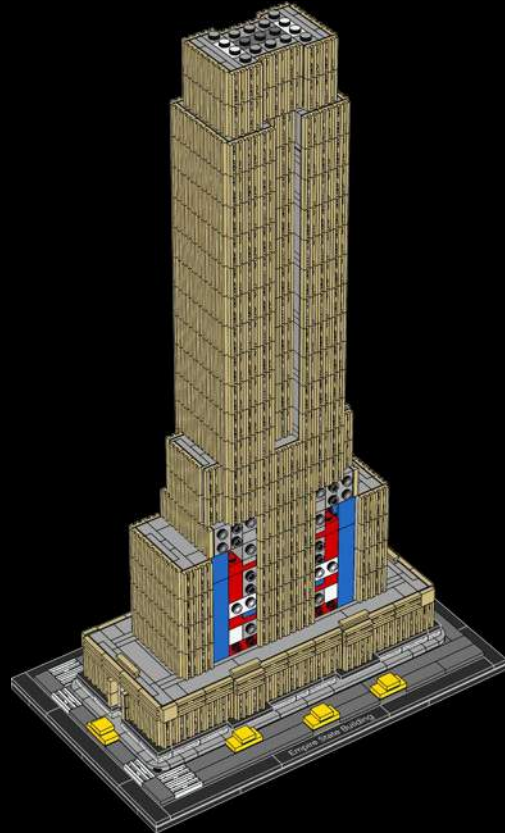
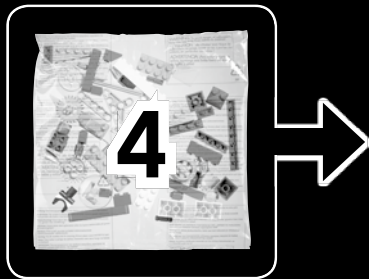


144



2x







2x



1x

146



1x



1x

147

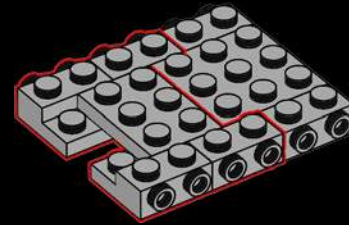


1x



4x

148

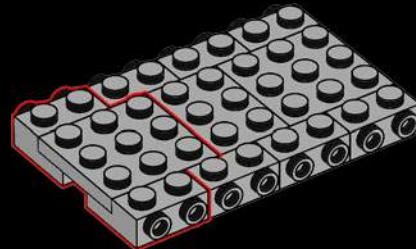


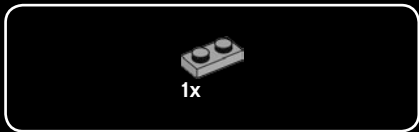
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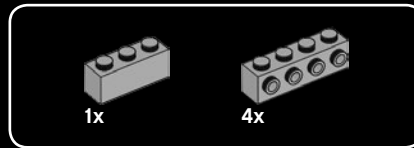
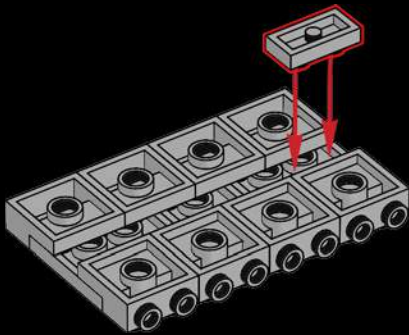
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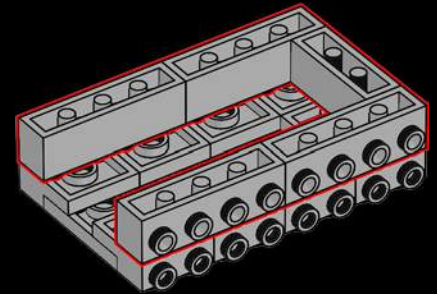


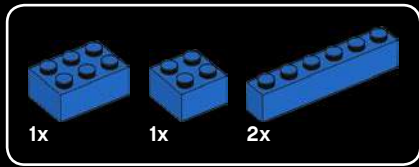


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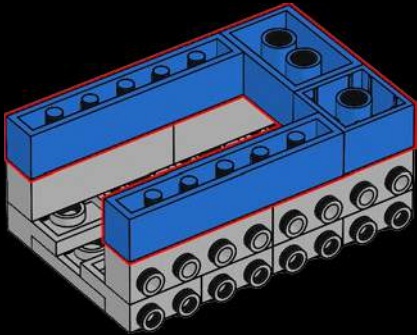


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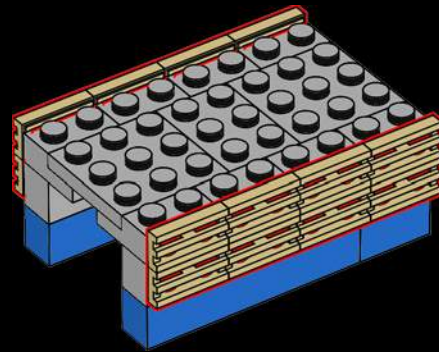




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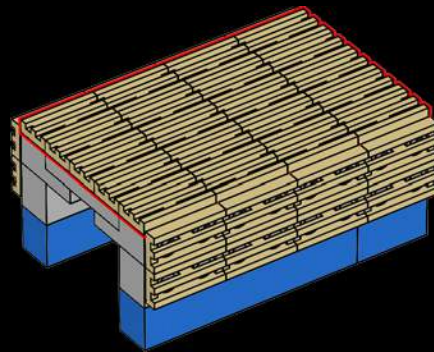


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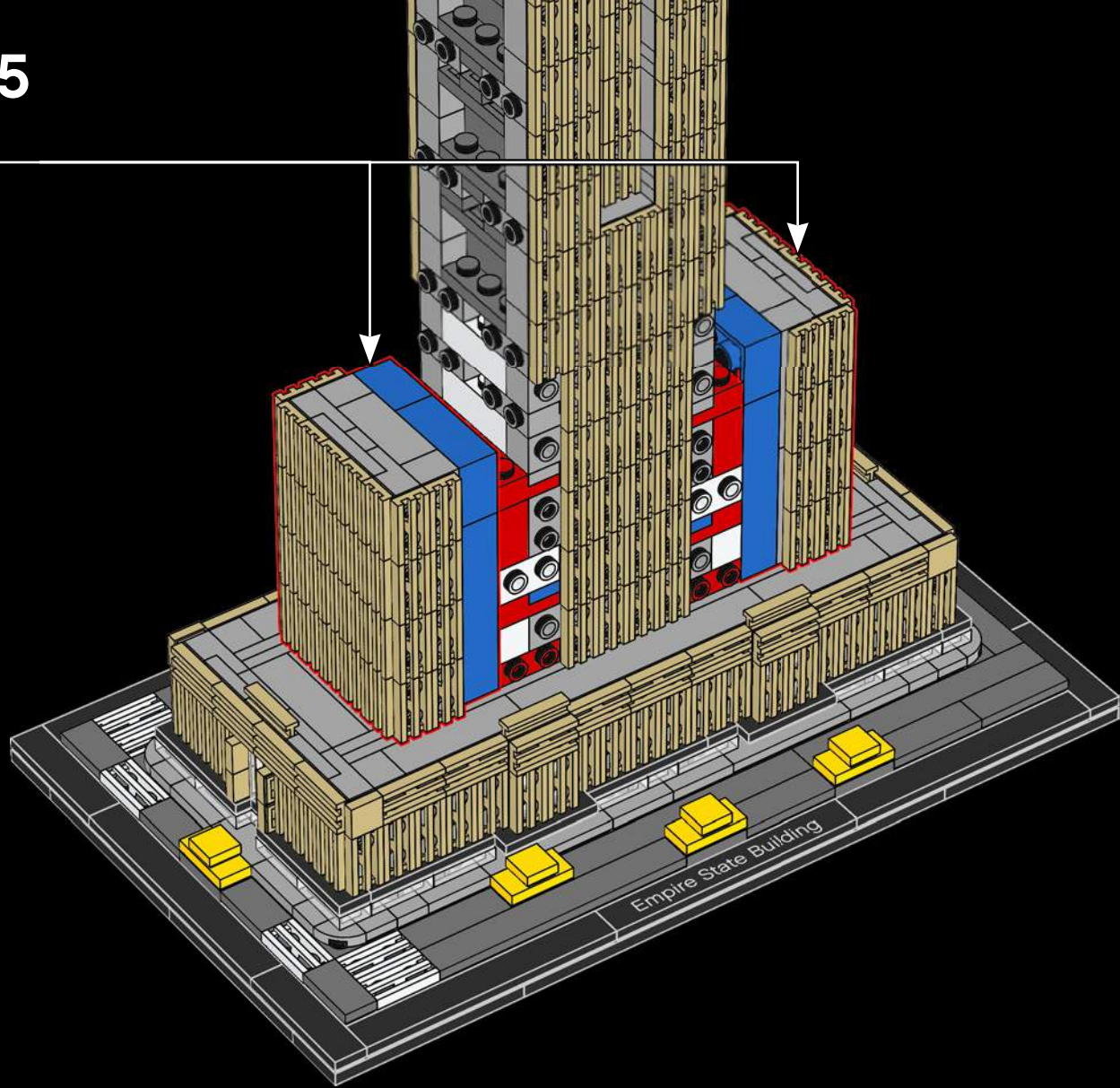


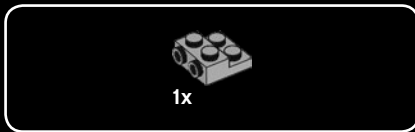
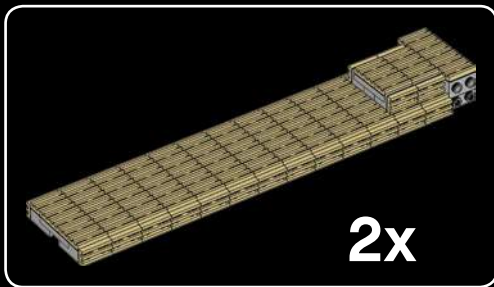


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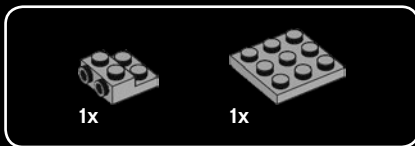


2x





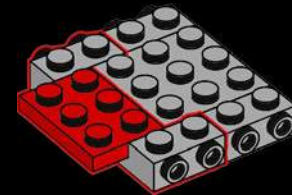
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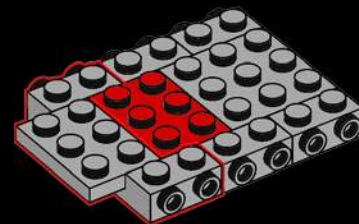
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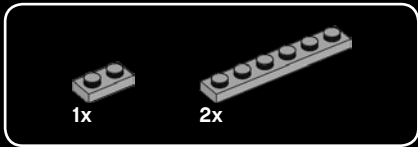


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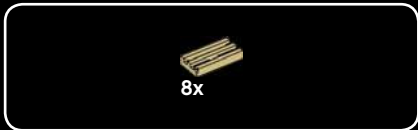
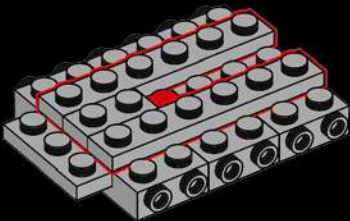


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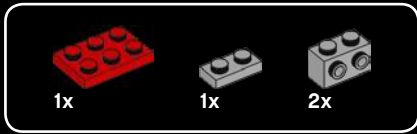
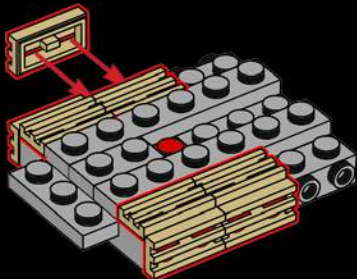




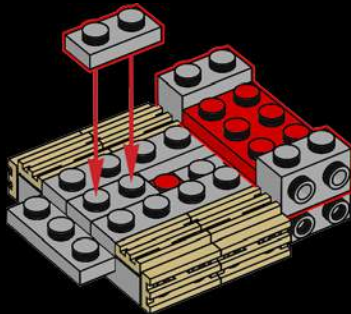
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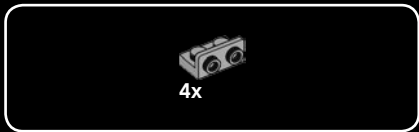


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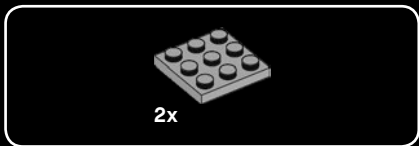
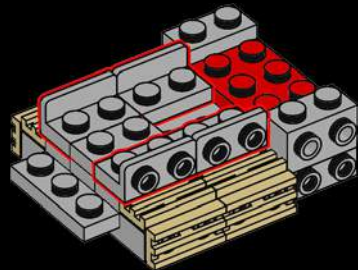


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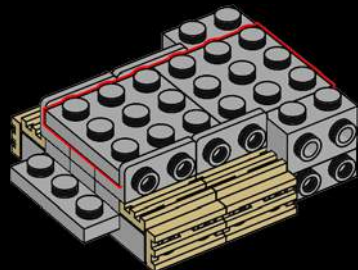




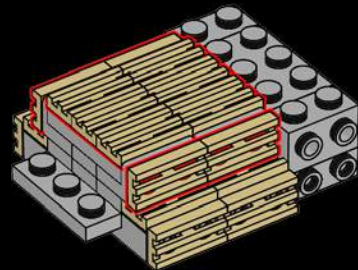
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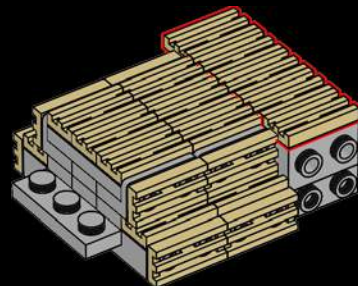
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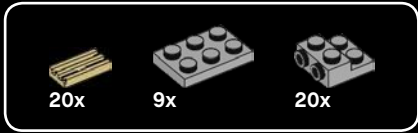


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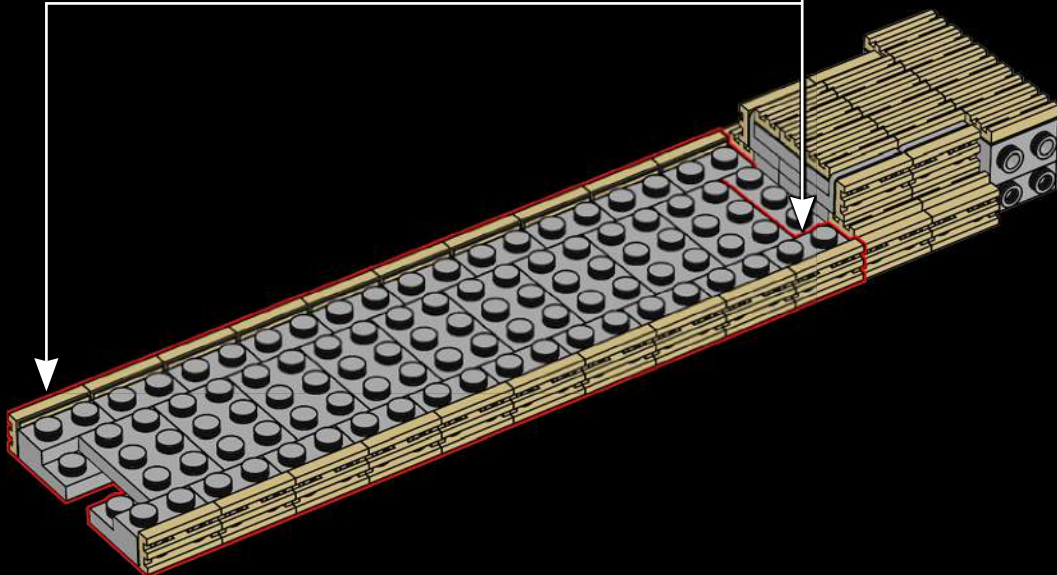
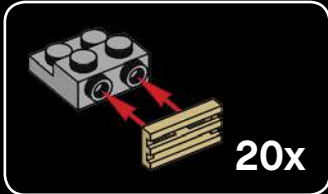


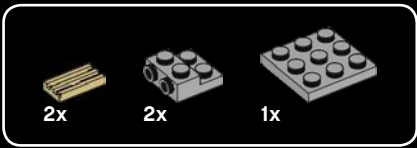
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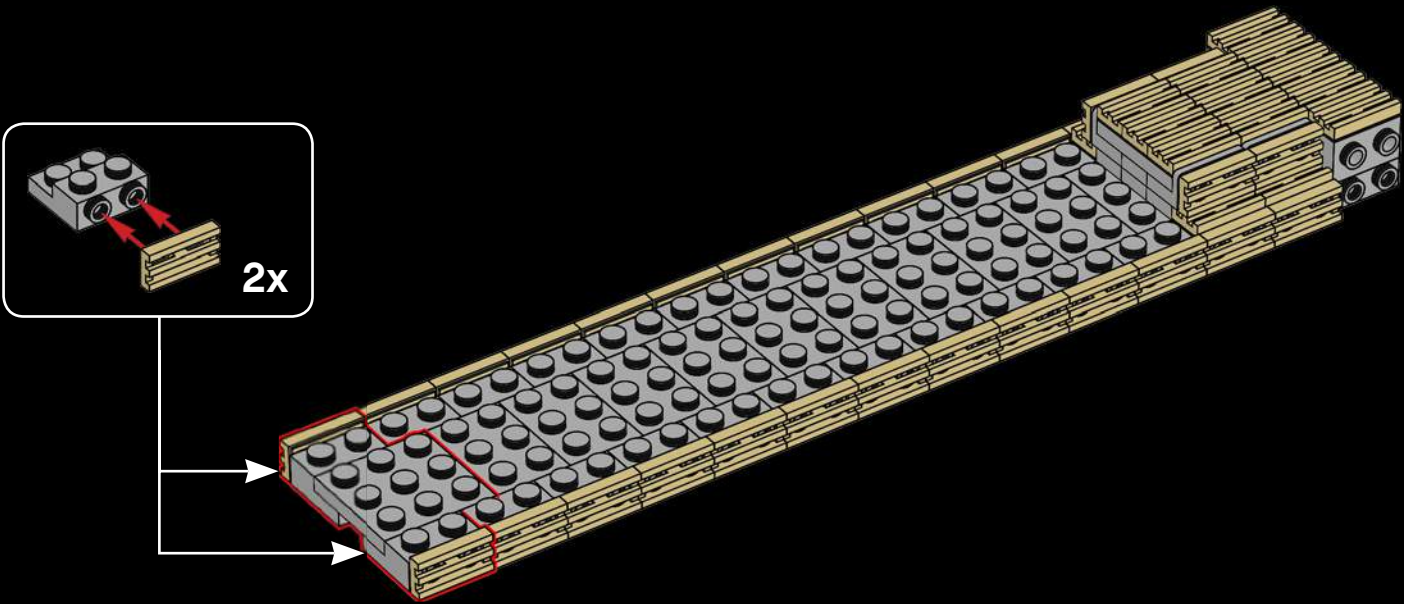


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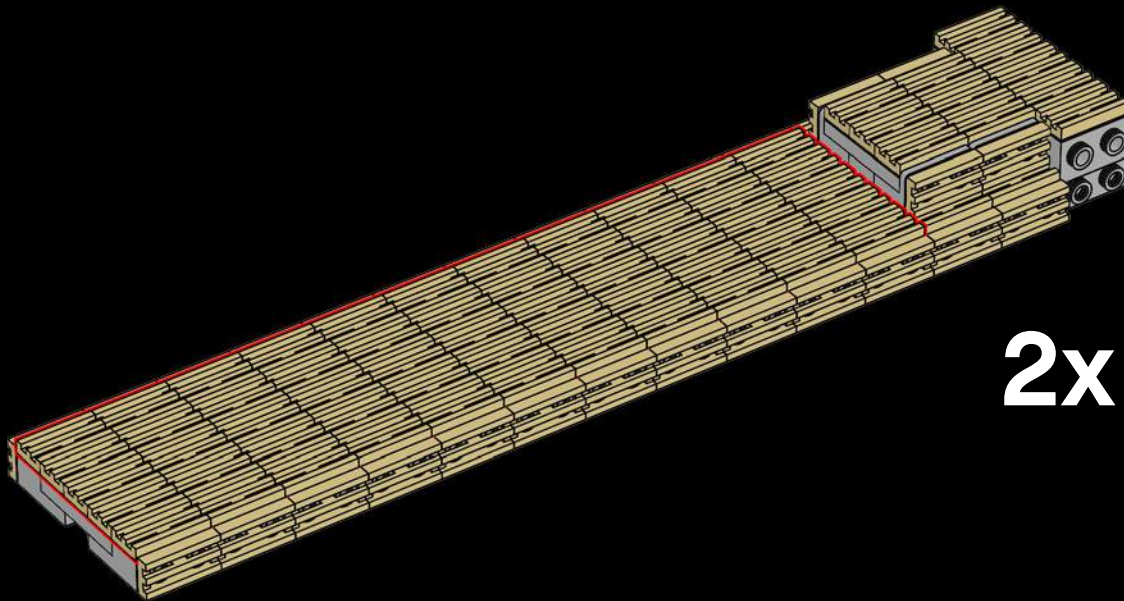
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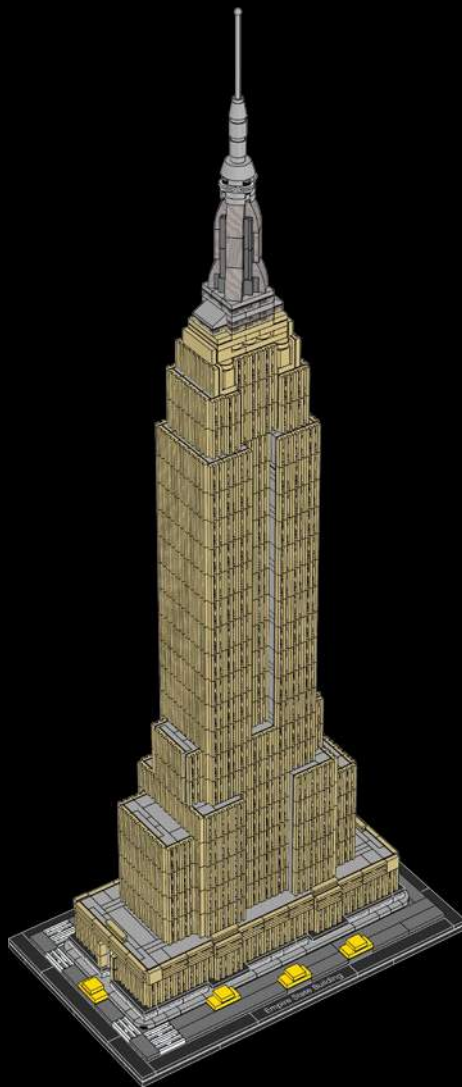
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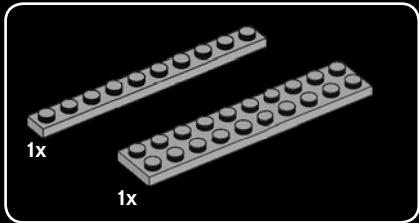
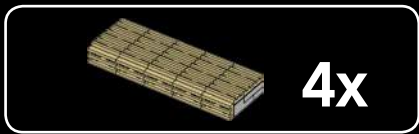


2x

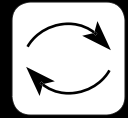
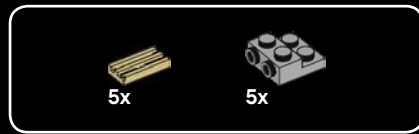
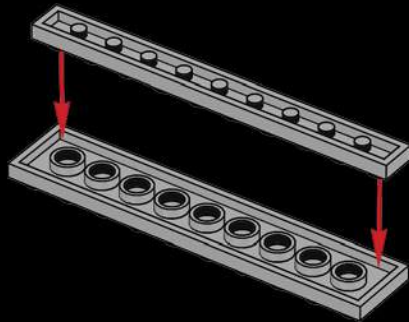
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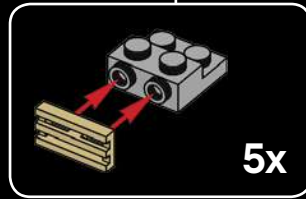
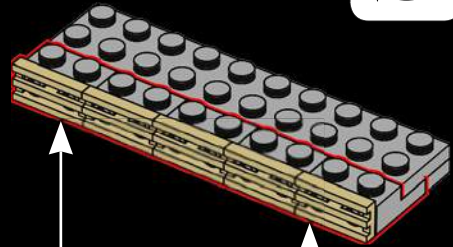




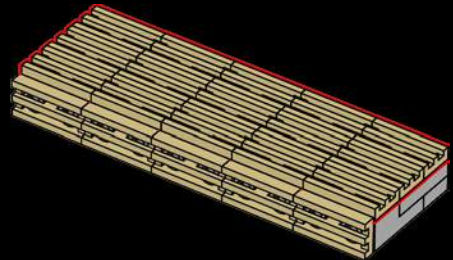
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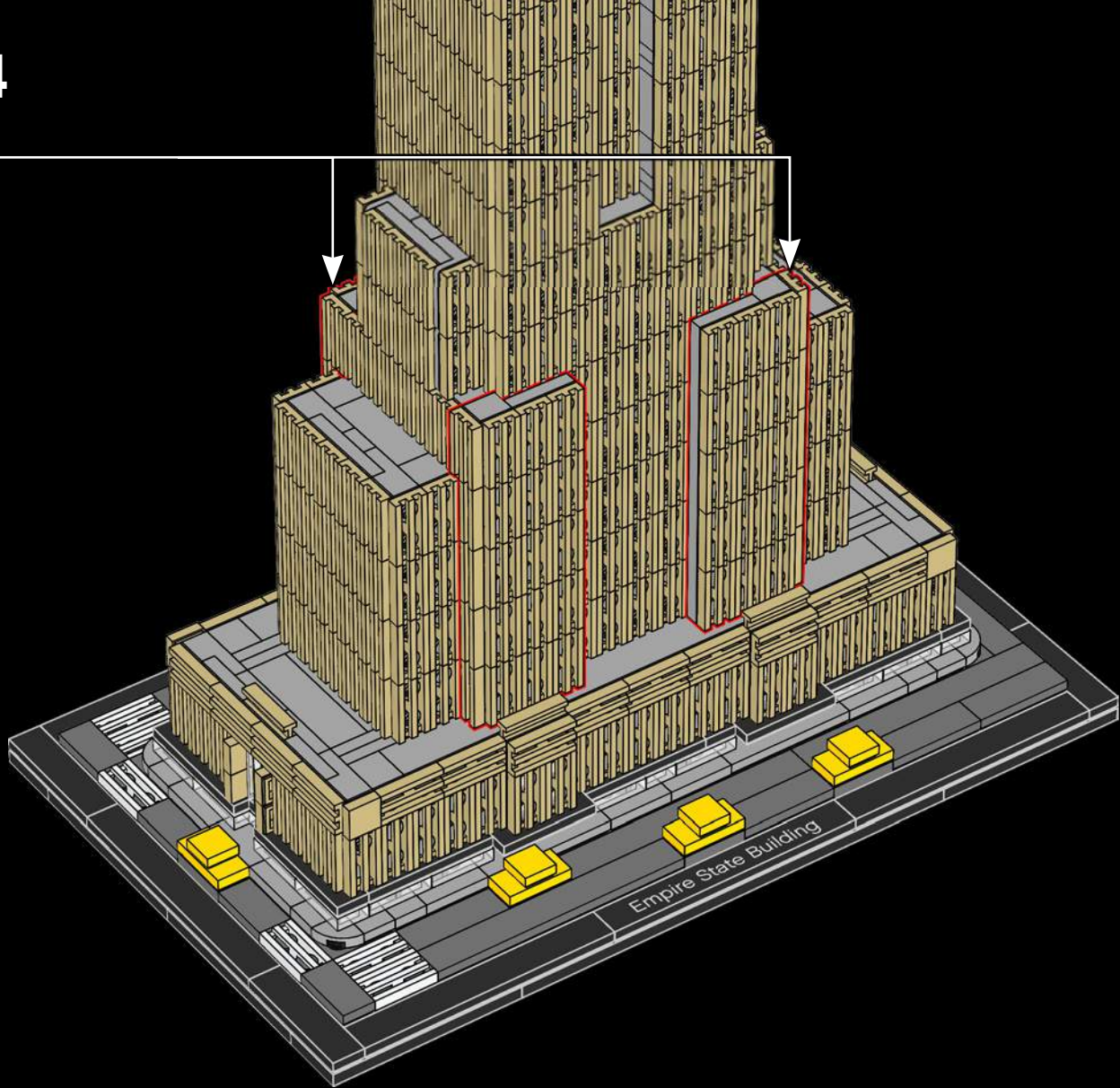
172



173



4x





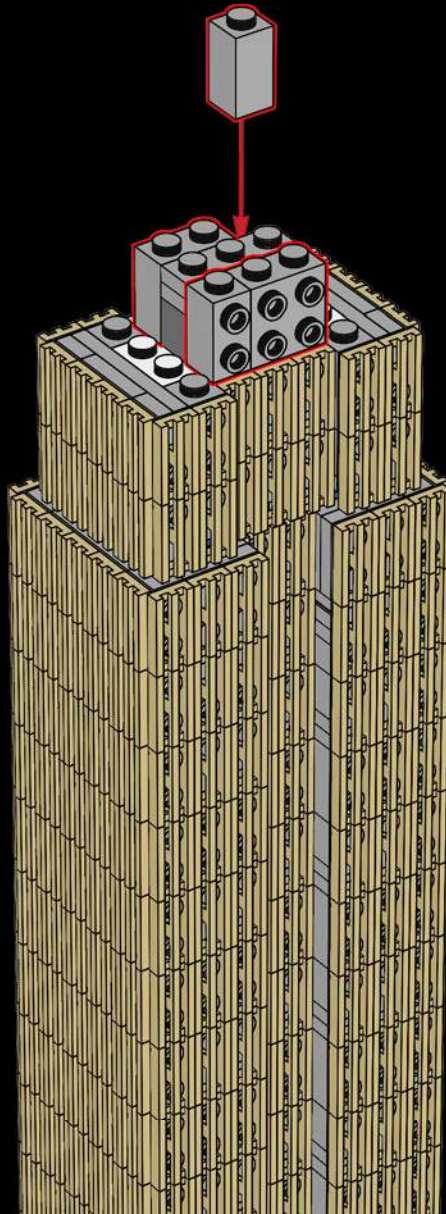


2x



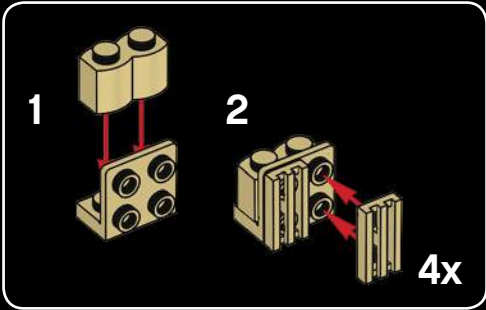
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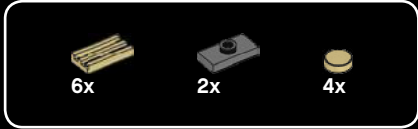
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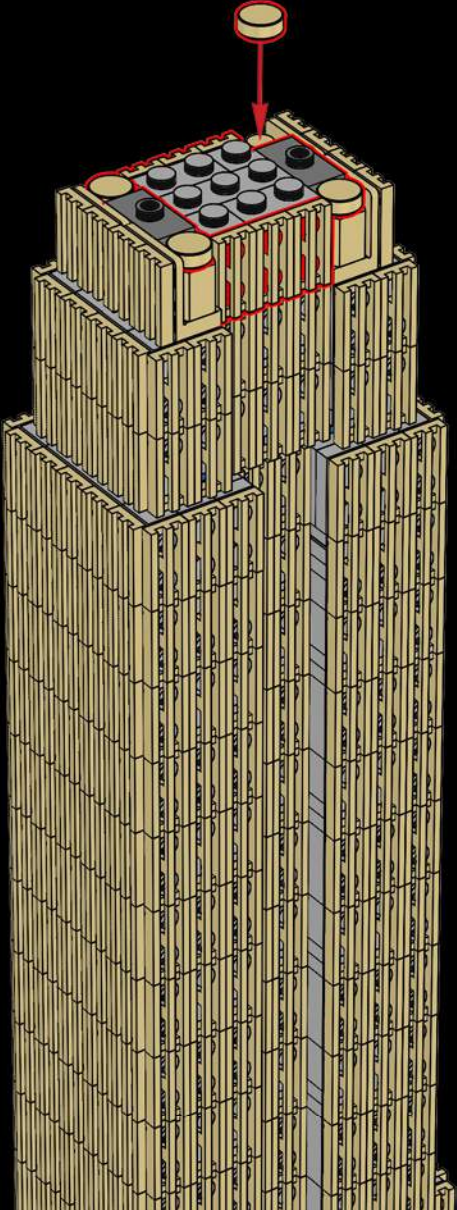


177





178



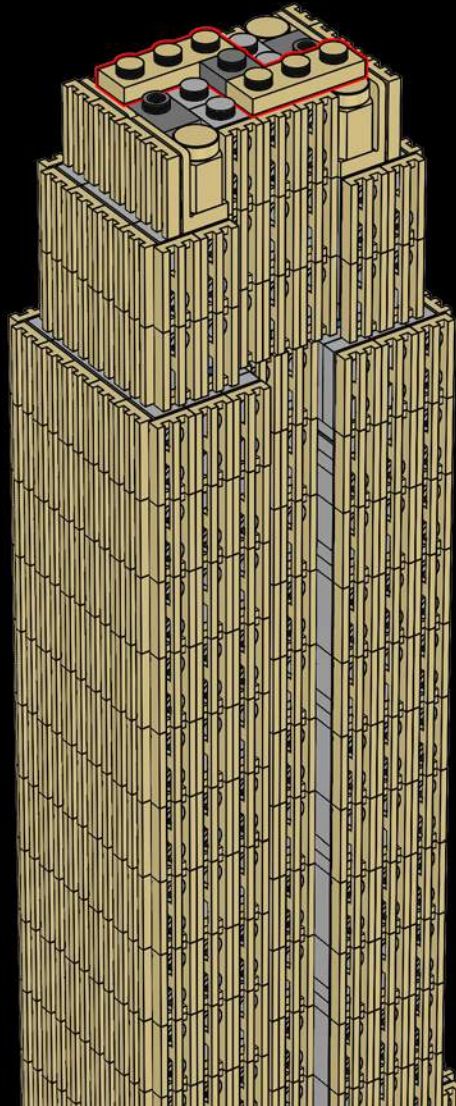


2x



1x

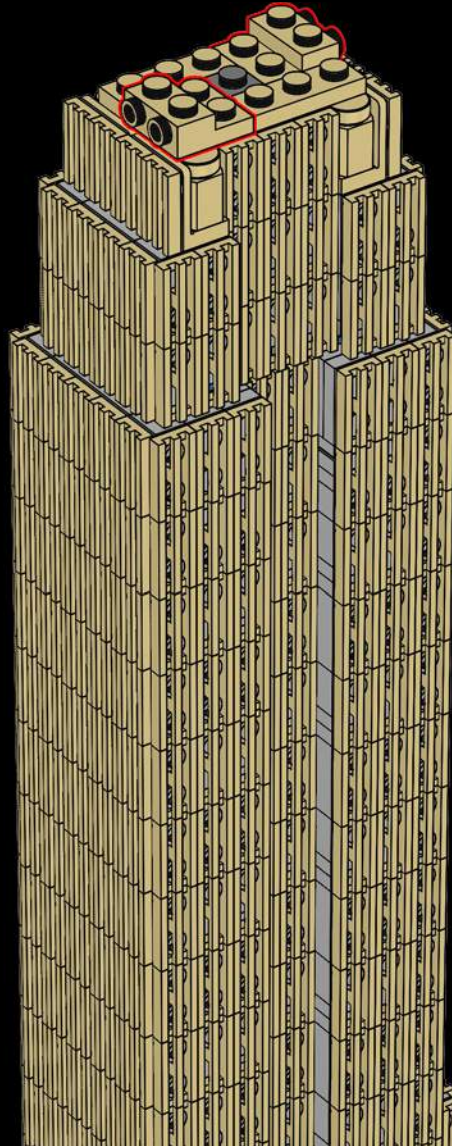
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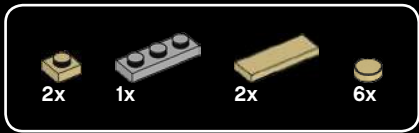


2x

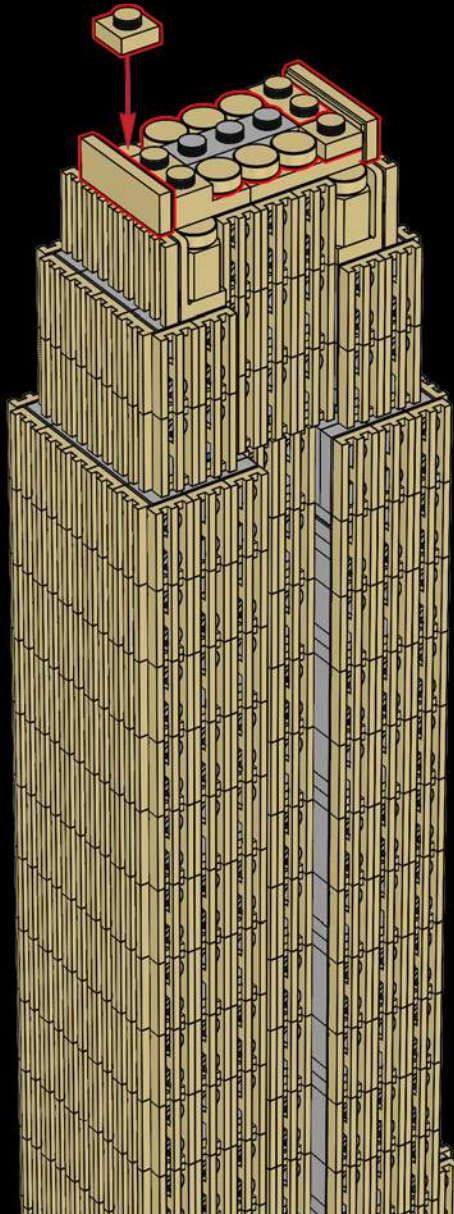
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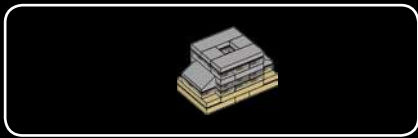


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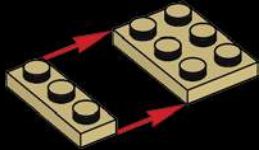


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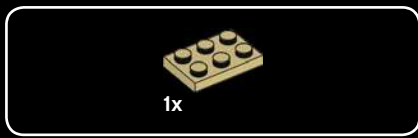
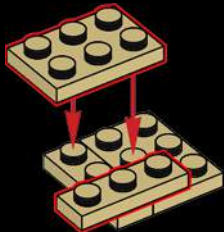




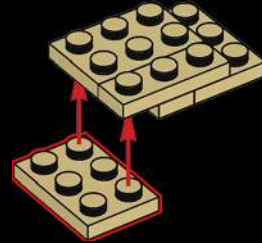
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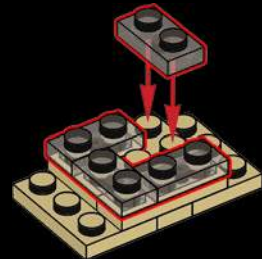
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184

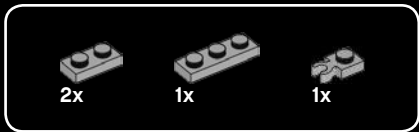
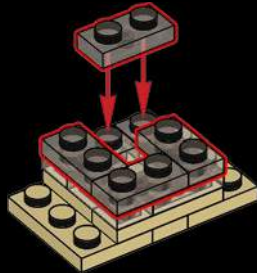


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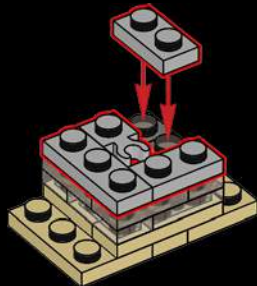




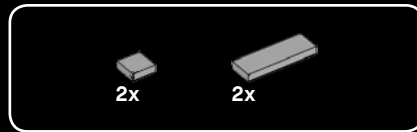
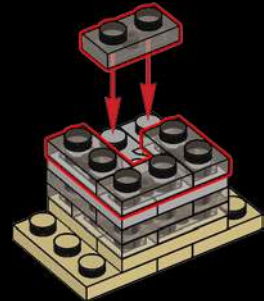
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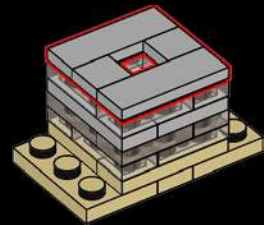
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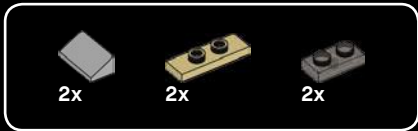


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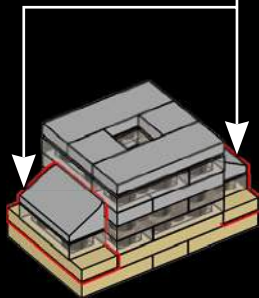
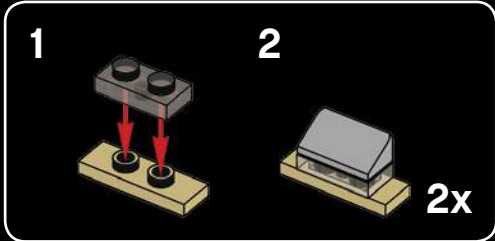


189





190

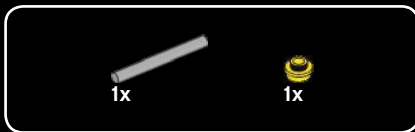
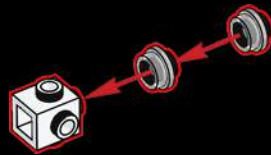


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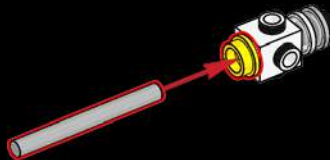




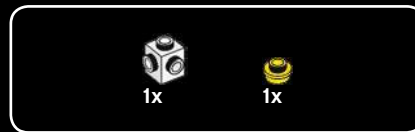
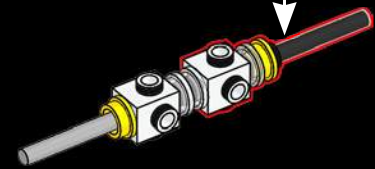
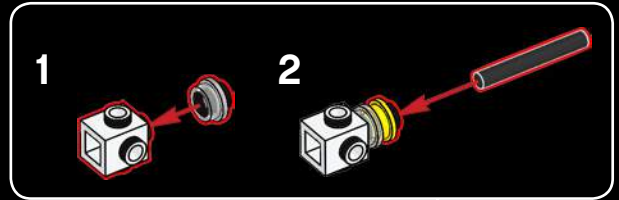
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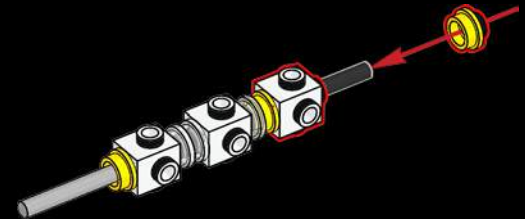
193



194



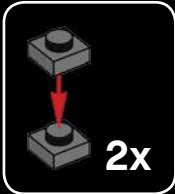
195



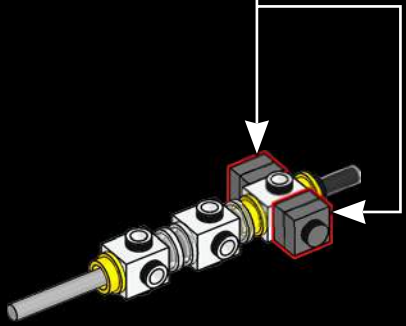


4x

# 196



2x



2x



2x



2x



4x



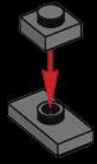
2x



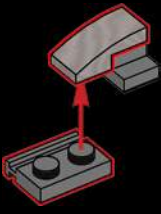
4x

# 197

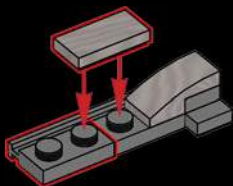
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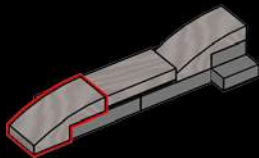
2



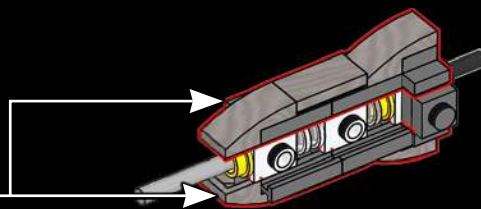
3



4



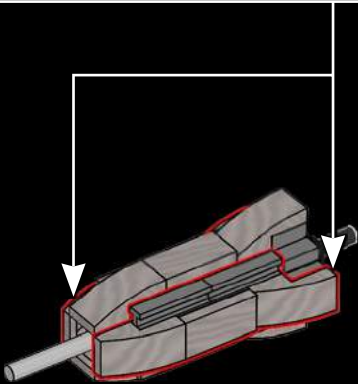
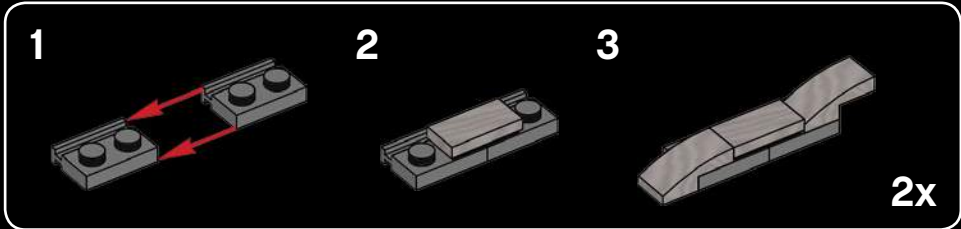
2x





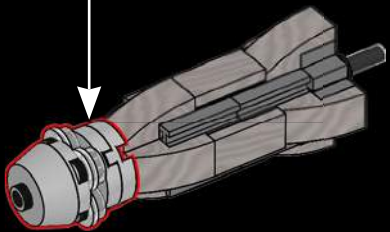
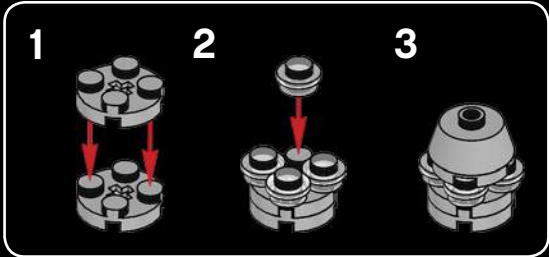
# 198

A 222 ft. (68 m) radio antenna was erected on top of the tower in 1950, allowing the area's television stations to broadcast from the building. Atop the tower is the 203 ft. (61.9 m) pinnacle, much of which is covered by broadcast antennas and surmounted with a lightning rod.

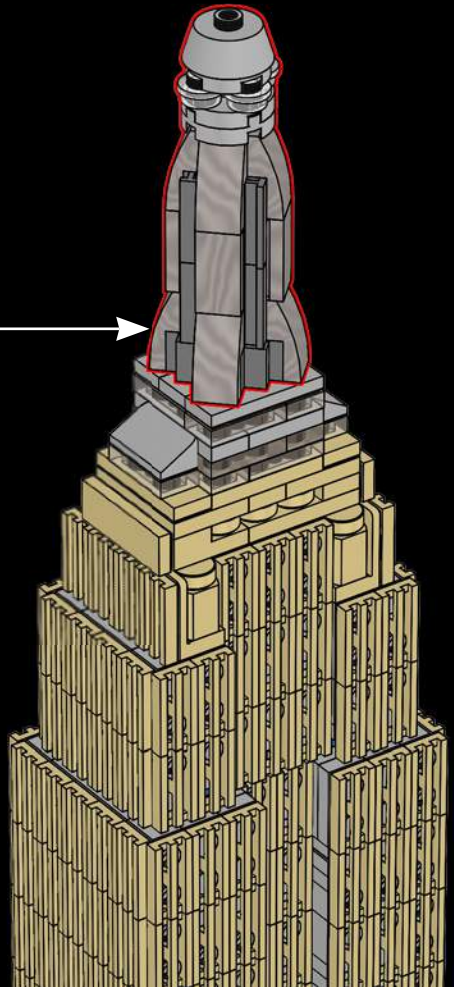


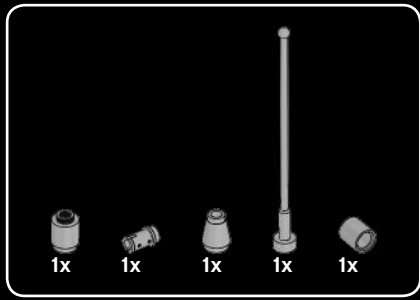


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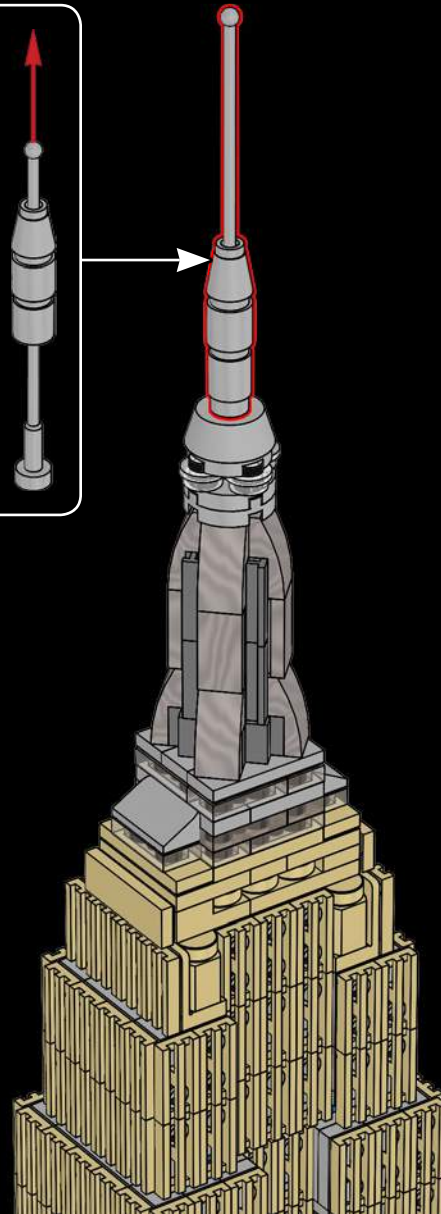
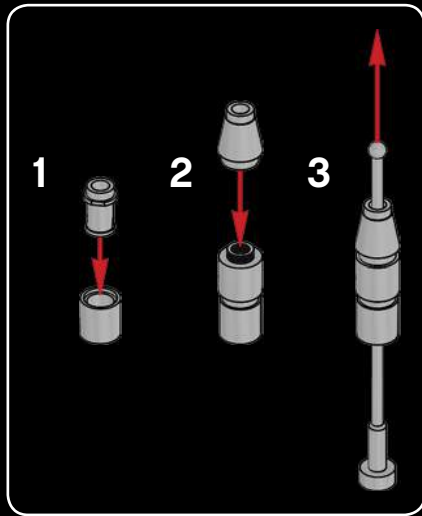


200





201



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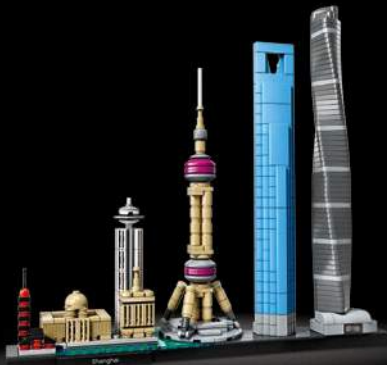
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Great Wall of China



21030  
United States Capitol Building

21042  
Statue of Liberty





21039  
Shanghai



21034  
London



21047  
Las Vegas



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Paris  
Paris



21028  
New York City



21043  
San Francisco

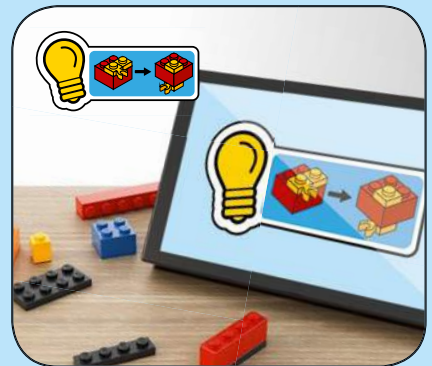
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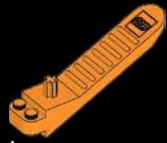
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