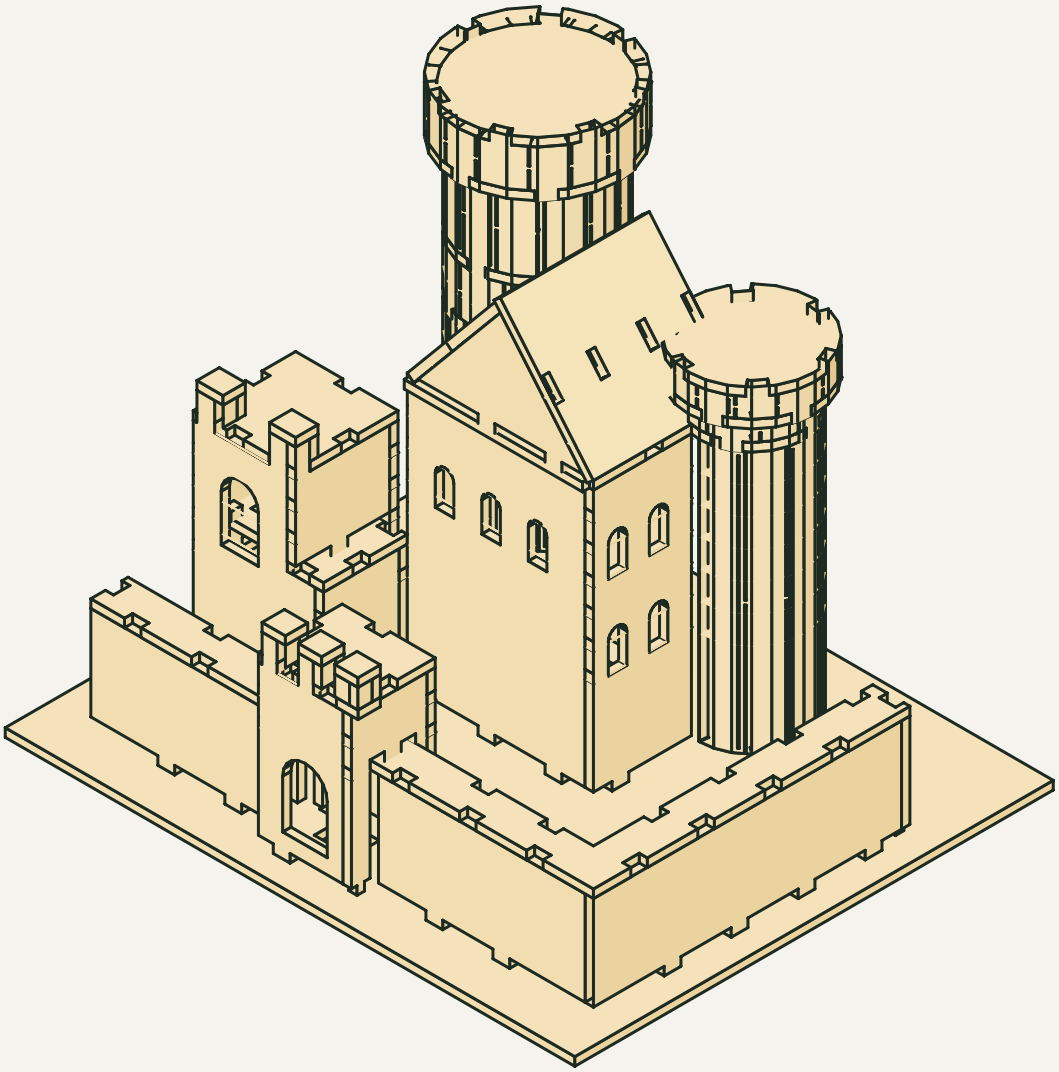
maquette a research project by architerate

Assembly manual

Castle

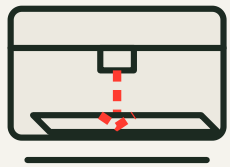
1:150 · basswood · 3 mm



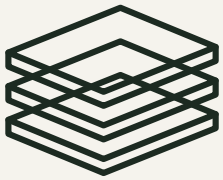
1	76	28	0
sheets	parts	steps	glue

Before you start

What you need

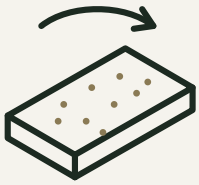


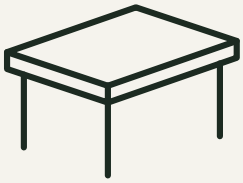
laser

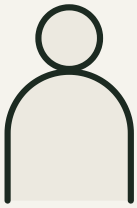


× 1

600 × 400 mm



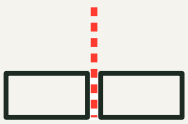




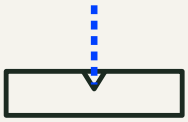
× 1



Laser layers



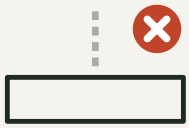
cut



score



engrave



SHEET_BOUNDS

Step 0

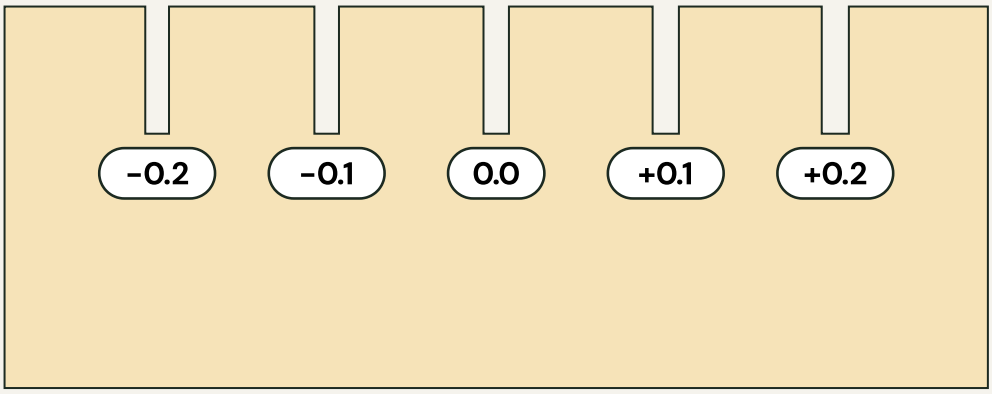
Cut the fit coupon first

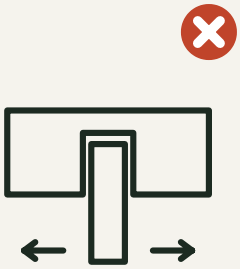
0

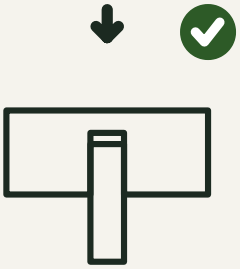


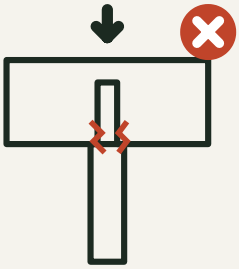
fit-coupon.svg

basswood · 3 mm







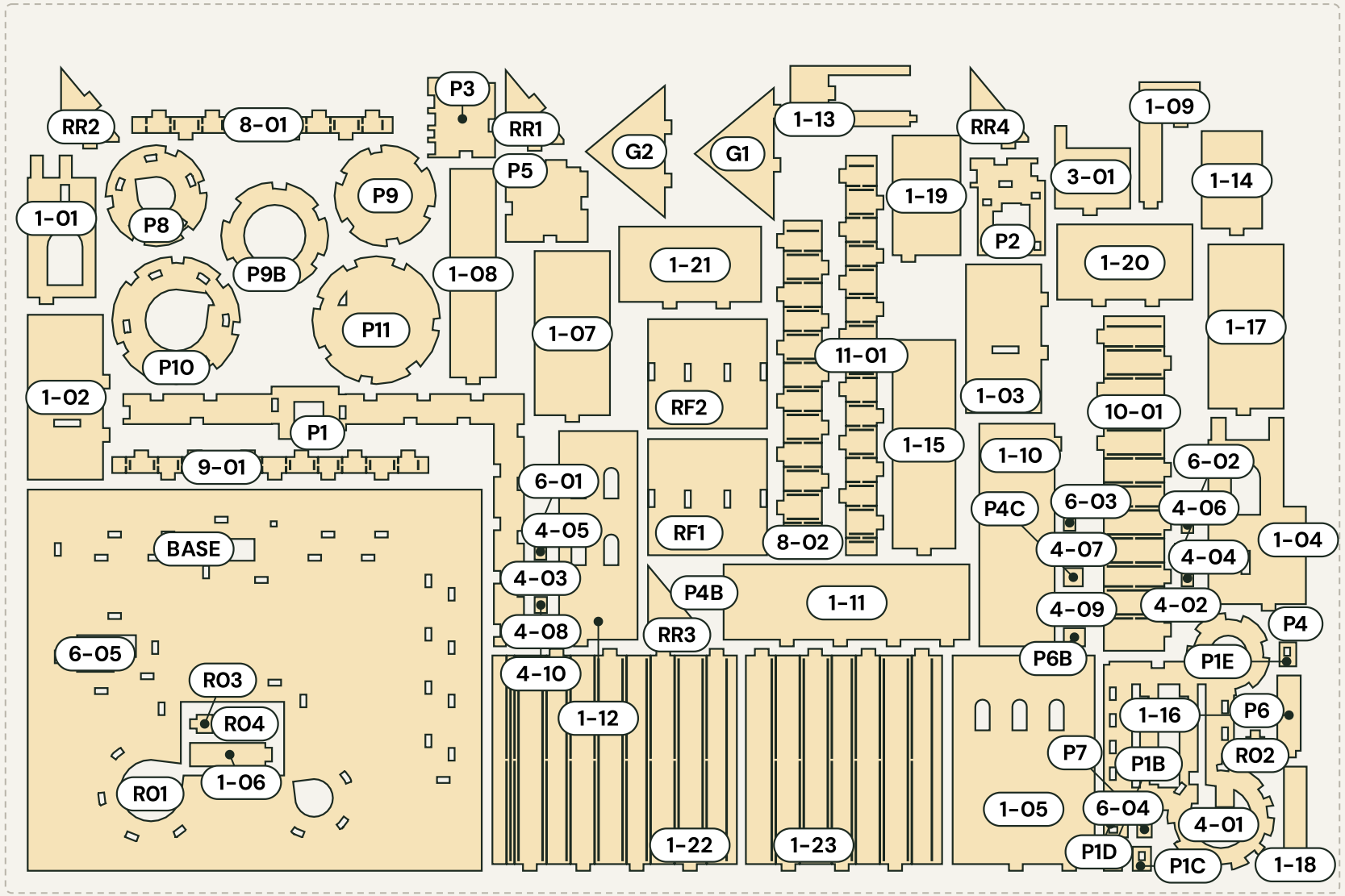


-0.2 -0.1 0.0 +0.1 +0.2 → allowance = ? ↻

now: -0.1 notch = thickness + allowance · negative = tighter

Cut · sheet 1 of 1

1 basswood · 3 mm · 600 × 400 mm · 76 parts



Sort

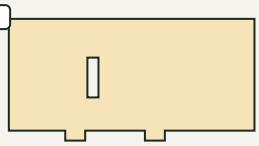
All the parts



1-01 × 1

1 30 × 67 mm

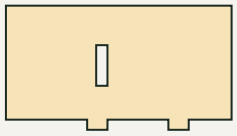
5



1-02 × 1

1 74 × 37 mm

5



1-03 × 1

1 67 × 37 mm

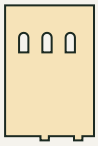
3



1-04 × 1

1 44 × 87 mm

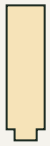
1



1-05 × 1

1 64 × 97 mm

2



1-06 × 1

1 10 × 37 mm

3



1-07 × 1

1 34 × 77 mm

1



1-08 × 1

1 20 × 97 mm

2



1-09 × 1

1 27 × 57 mm

3



1-10 × 1

1 100 × 37 mm

4



1-11 × 1

1 110 × 37 mm

4



1-12 × 1

1 35 × 97 mm

2



1-13 × 1

1 27 × 57 mm

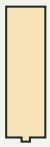
5



1-14 × 1

1 27 × 47 mm

1



1-15 × 1

1 28 × 97 mm

2



1-16 × 1

1 10 × 37 mm

4



1-17 × 1

1 34 × 77 mm

1



1-18 × 1

1 10 × 47 mm

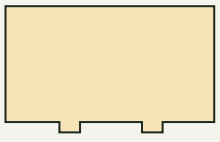
1



1-19 × 1

1 30 × 57 mm

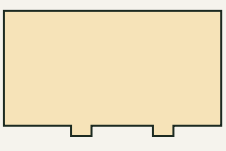
3

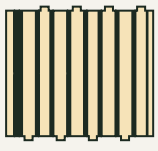


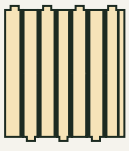
1-20 × 1

1 61 × 37 mm

3



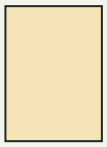




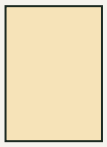




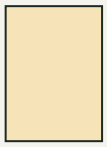
4-03 × 1
1 5 × 7 mm
11



4-04 × 1
1 5 × 7 mm
12



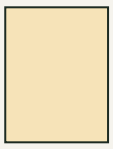
4-05 × 1
1 5 × 7 mm
12



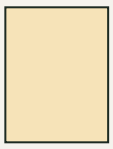
4-06 × 1
1 5 × 7 mm
12



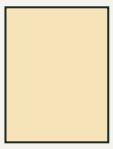
4-07 × 1
1 5 × 7 mm
11



4-08 × 1
1 5 × 7 mm
11



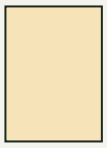
4-09 × 1
1 5 × 7 mm
11



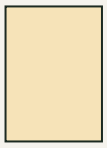
4-10 × 1
1 5 × 7 mm
12



6-01 × 1
1 5 × 7 mm
15



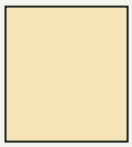
6-02 × 1
1 5 × 7 mm
15



6-03 × 1
1 5 × 7 mm
15



6-04 × 1
1 6 × 7 mm
15



6-05 × 1
1 6 × 7 mm
15



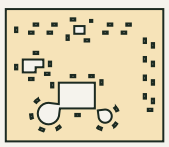
8-01 × 1
1 117 × 13 mm
18



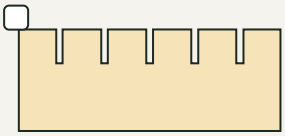
8-02 × 1
1 150 × 23 mm
18



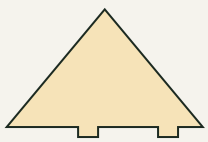
9-01 × 1
1 142 × 13 mm
20



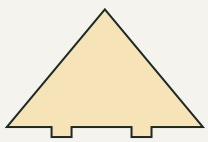
BASE × 1
1 204 × 171 mm



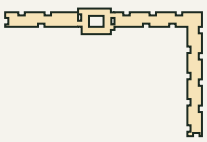
FIT-COUPON × 1
2 116 × 45 mm



G1 × 1
1 59 × 38 mm
27



G2 × 1
1 59 × 38 mm
26



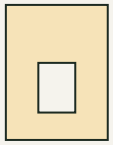
P1 × 1
1 180 × 117 mm
6



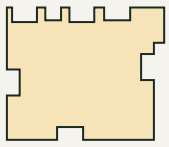
P10 × 1
1 57 × 57 mm
23



P11 × 1
1 57 × 57 mm
25



P1B × 1
1 8 × 11 mm
6



P3 × 1

1 36 × 30 mm

10



P4 × 1

1 8 × 8 mm

13



P4B × 1

1 8 × 8 mm

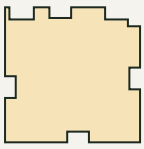
13



P4C × 1

1 8 × 8 mm

13



P5 × 1

1 37 × 37 mm

14



P6 × 1

1 9 × 8 mm

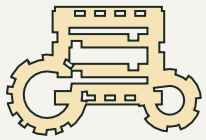
16



P6B × 1

1 9 × 8 mm

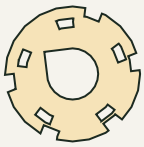
16



P7 × 1

1 116 × 76 mm

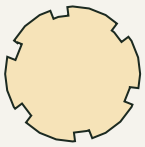
17



P8 × 1

1 45 × 45 mm

19



P9 × 1

1 45 × 45 mm

21



P9B × 1

1 48 × 48 mm

21



RO1 × 1

1 8 × 13 mm

7



RO2 × 1

1 8 × 13 mm

7



RO3 × 1

1 8 × 13 mm

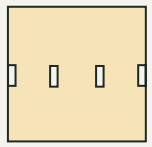
7



RO4 × 1

1 8 × 13 mm

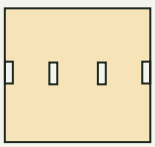
7



RF1 × 1

1 53 × 52 mm

28



RF2 × 1

1 53 × 49 mm

28



RR1 × 1

1 26 × 36 mm

27



RR2 × 1

1 26 × 36 mm

27



RR3 × 1

1 26 × 36 mm

26



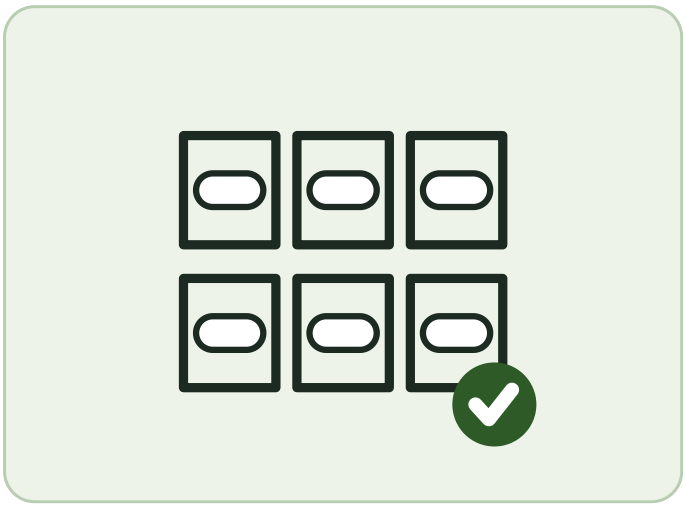
RR4 × 1

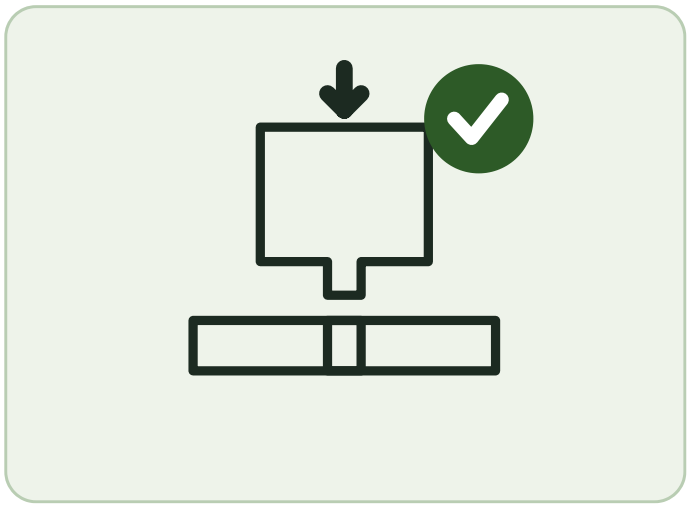
1 26 × 36 mm

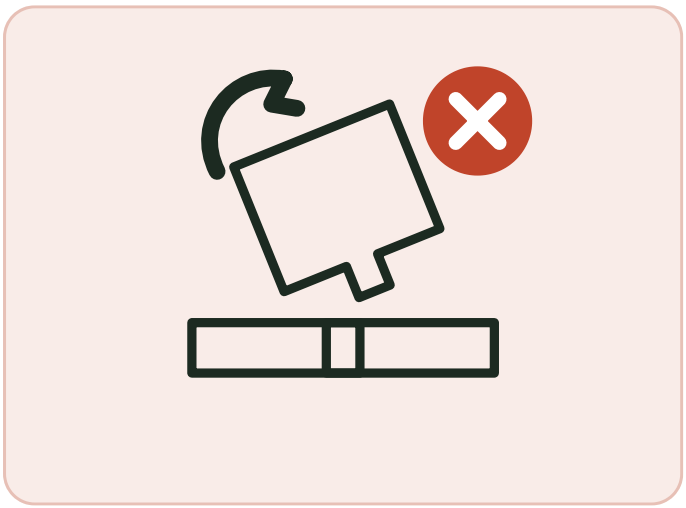
26

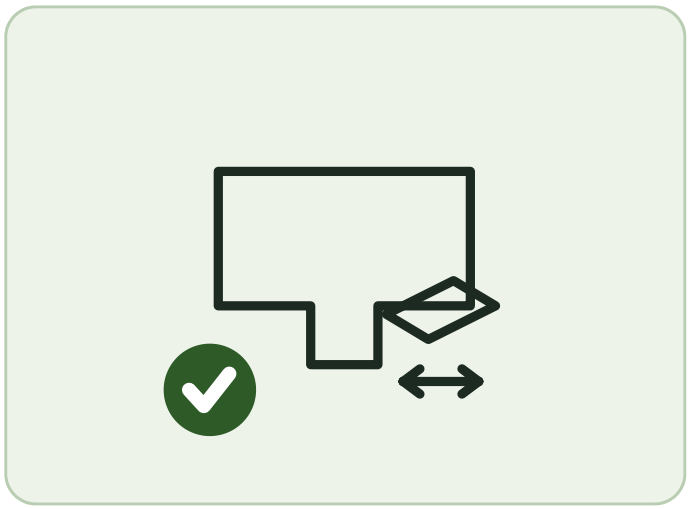
Good to know

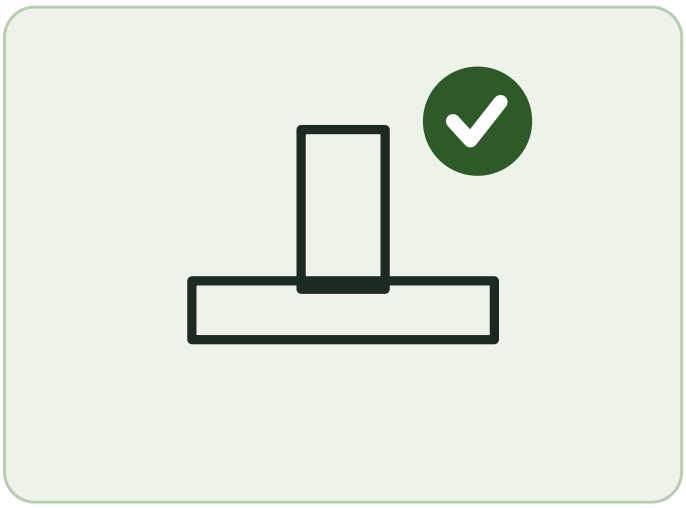
Push straight, never twist

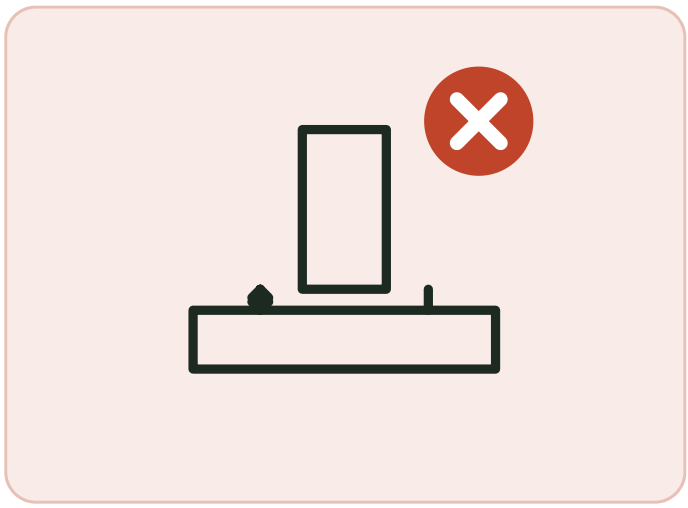






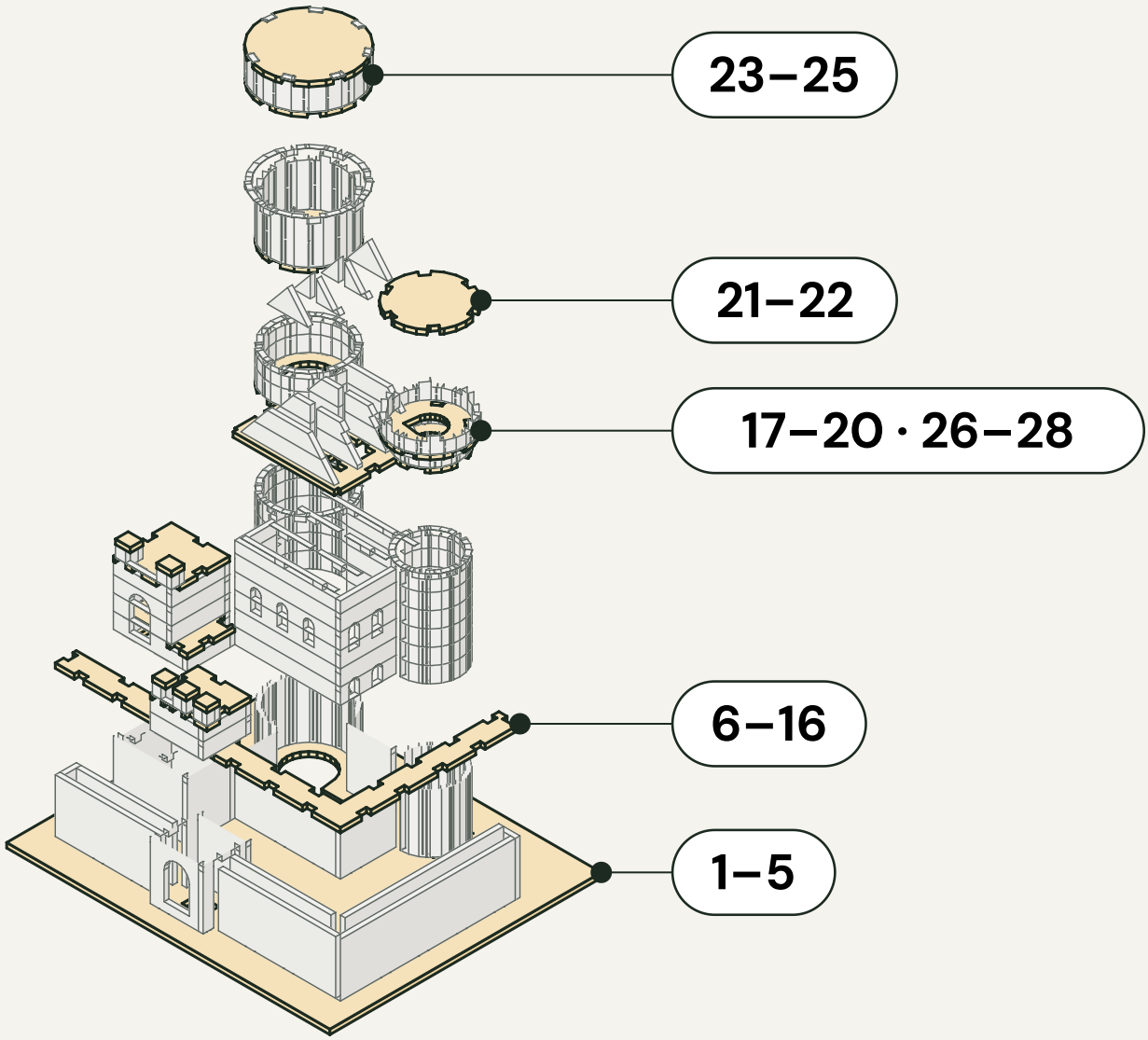






The plan

Built from the bottom up, floor by floor



1

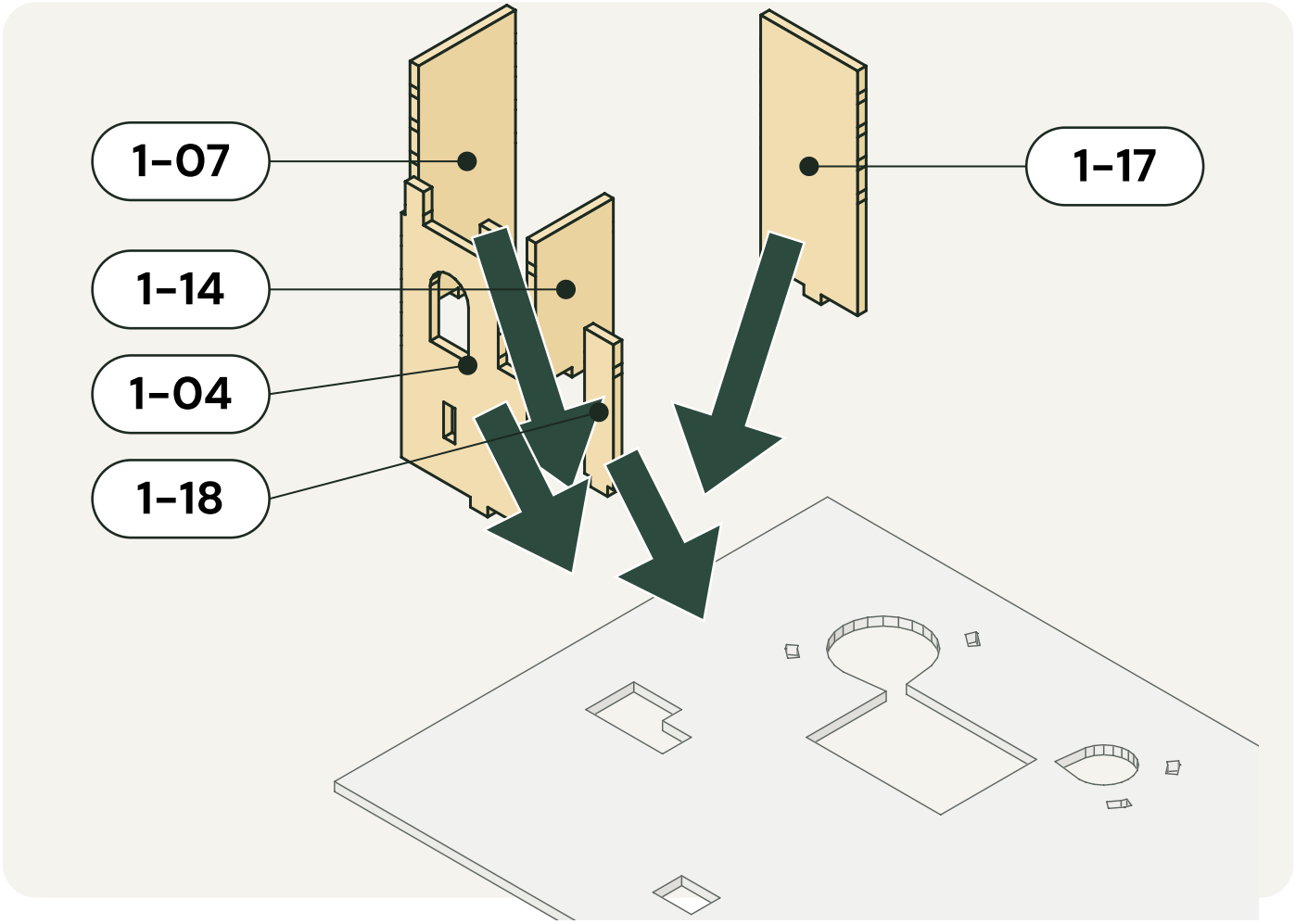

1-07 × 1 1

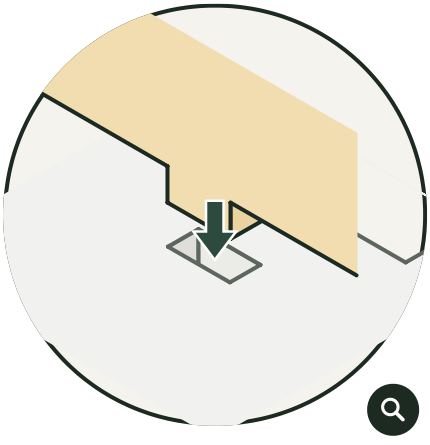

1-17 × 1 1

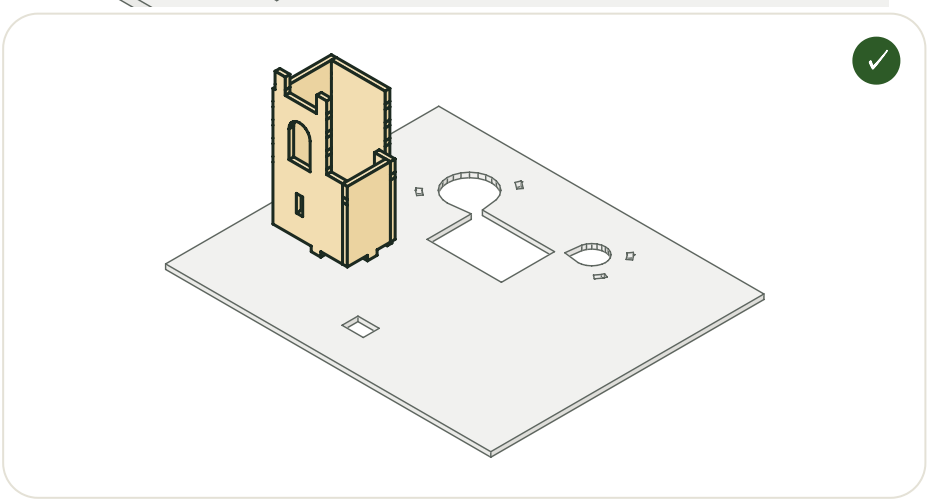

1-04 × 1 1


1-14 × 1 1


1-18 × 1 1





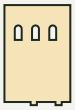


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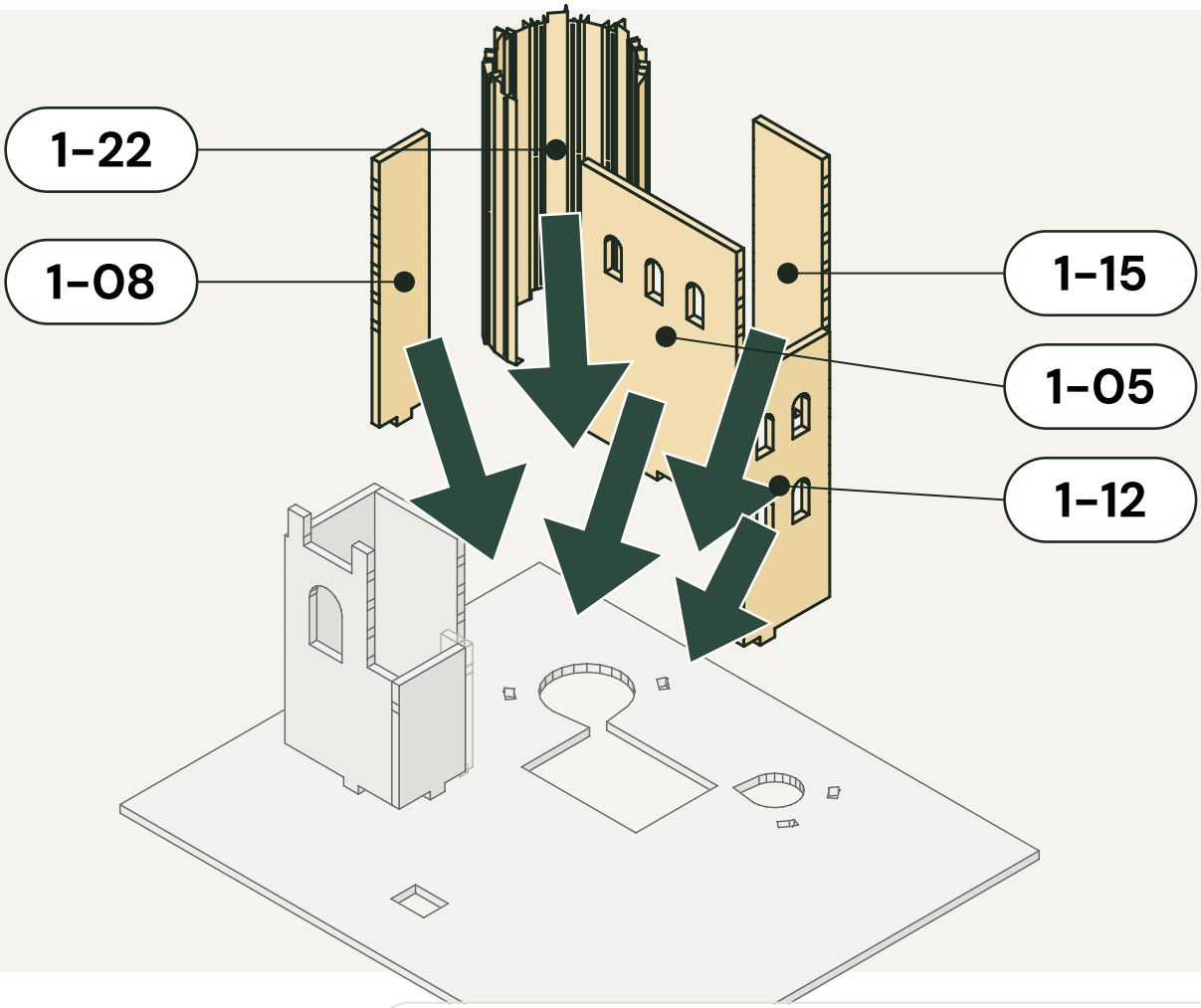

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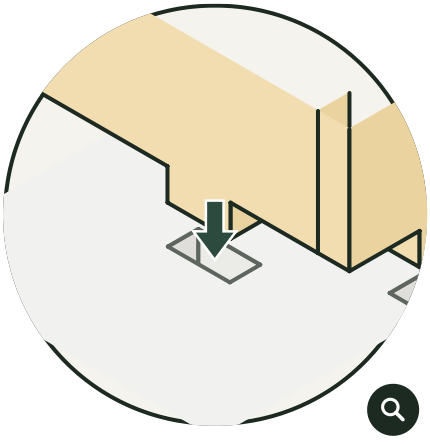

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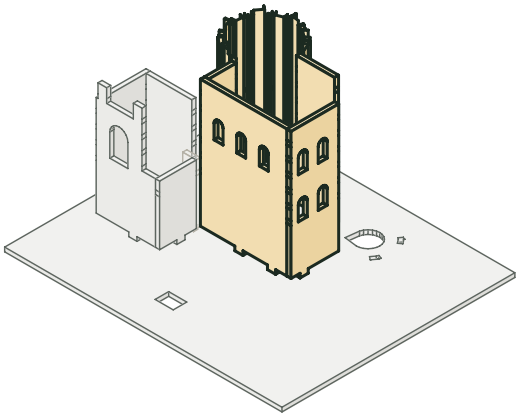

1-08 × 1 1


1-05 × 1 1

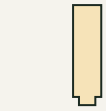

1-12 × 1 1



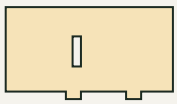




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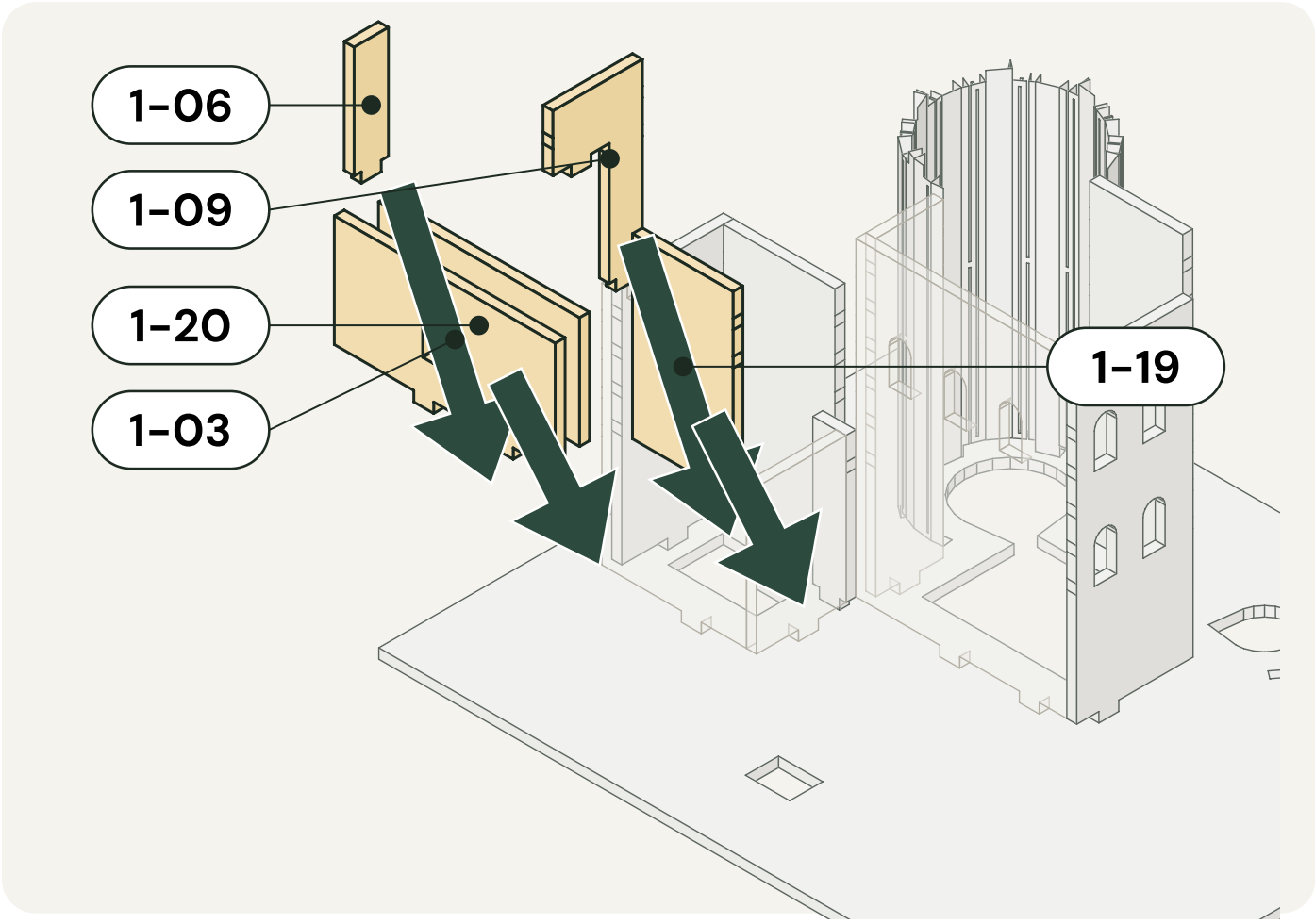

1-06 × 1 1

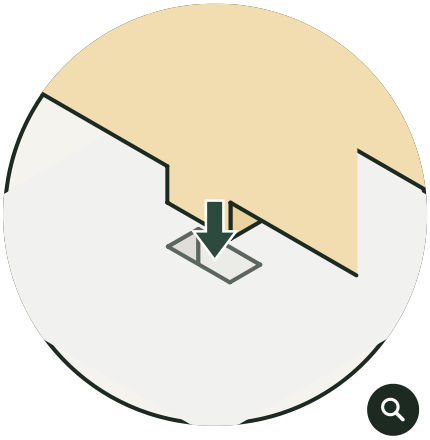

1-20 × 1 1

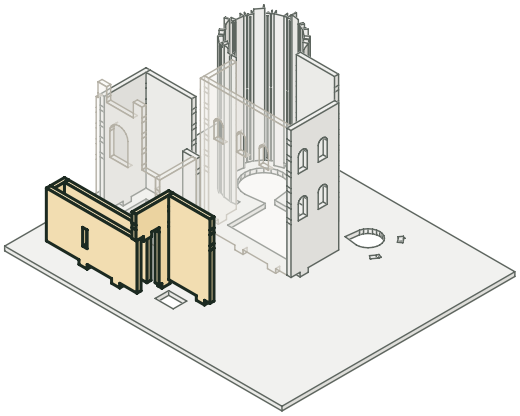

1-03 × 1 1


1-09 × 1 1

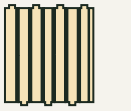

1-19 × 1 1







4

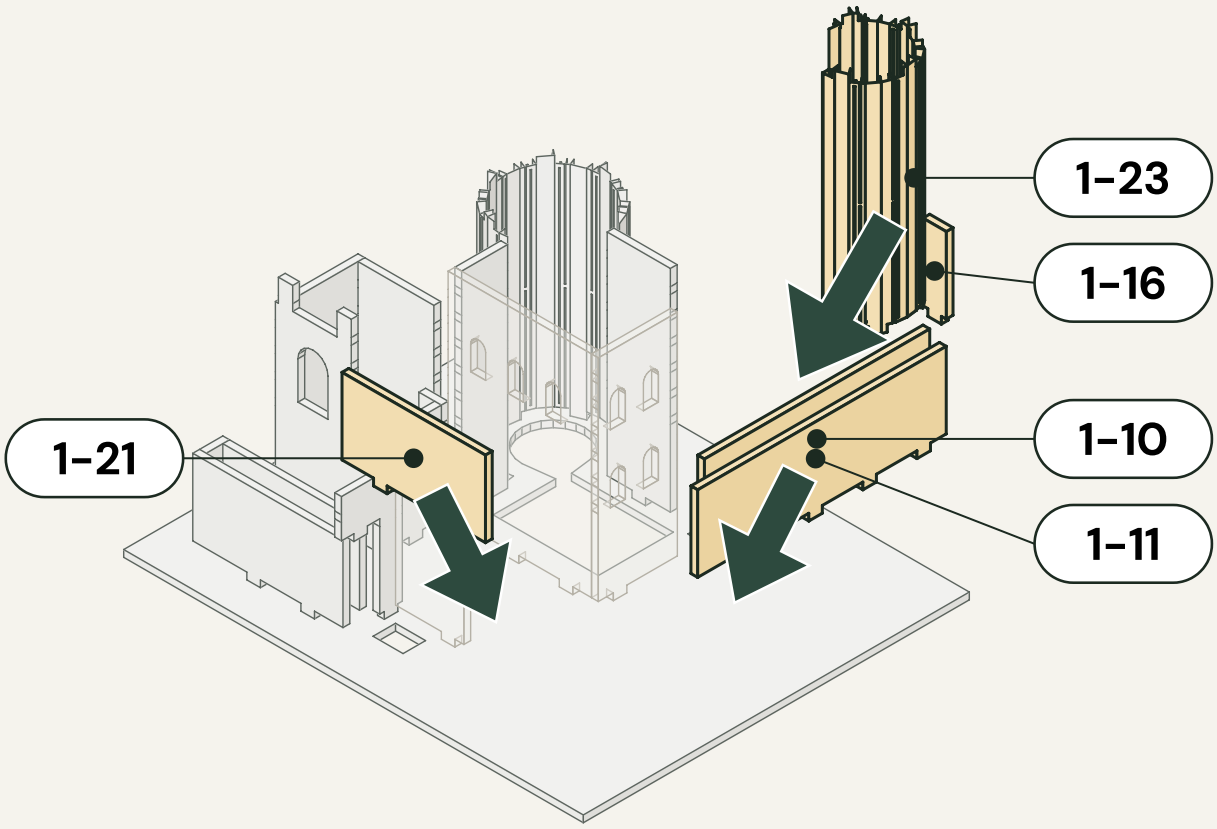

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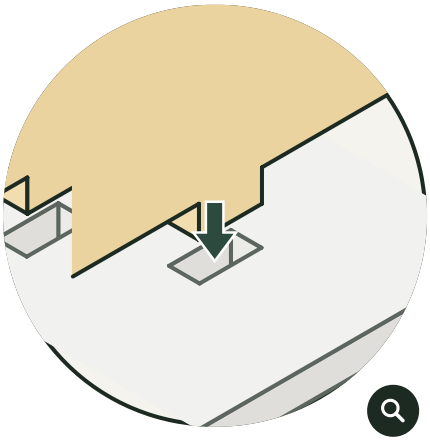

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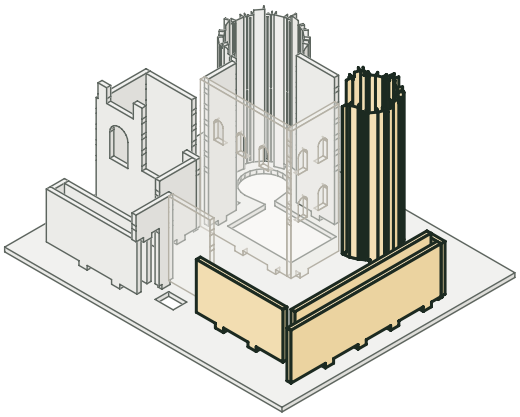

1–16 × 1 1


1–21 × 1 1

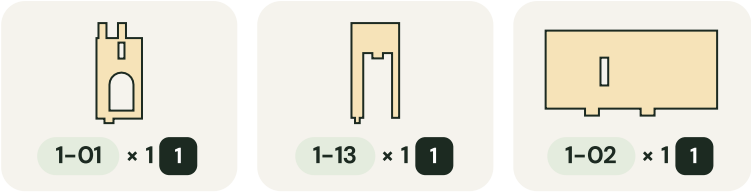

1–11 × 1 1

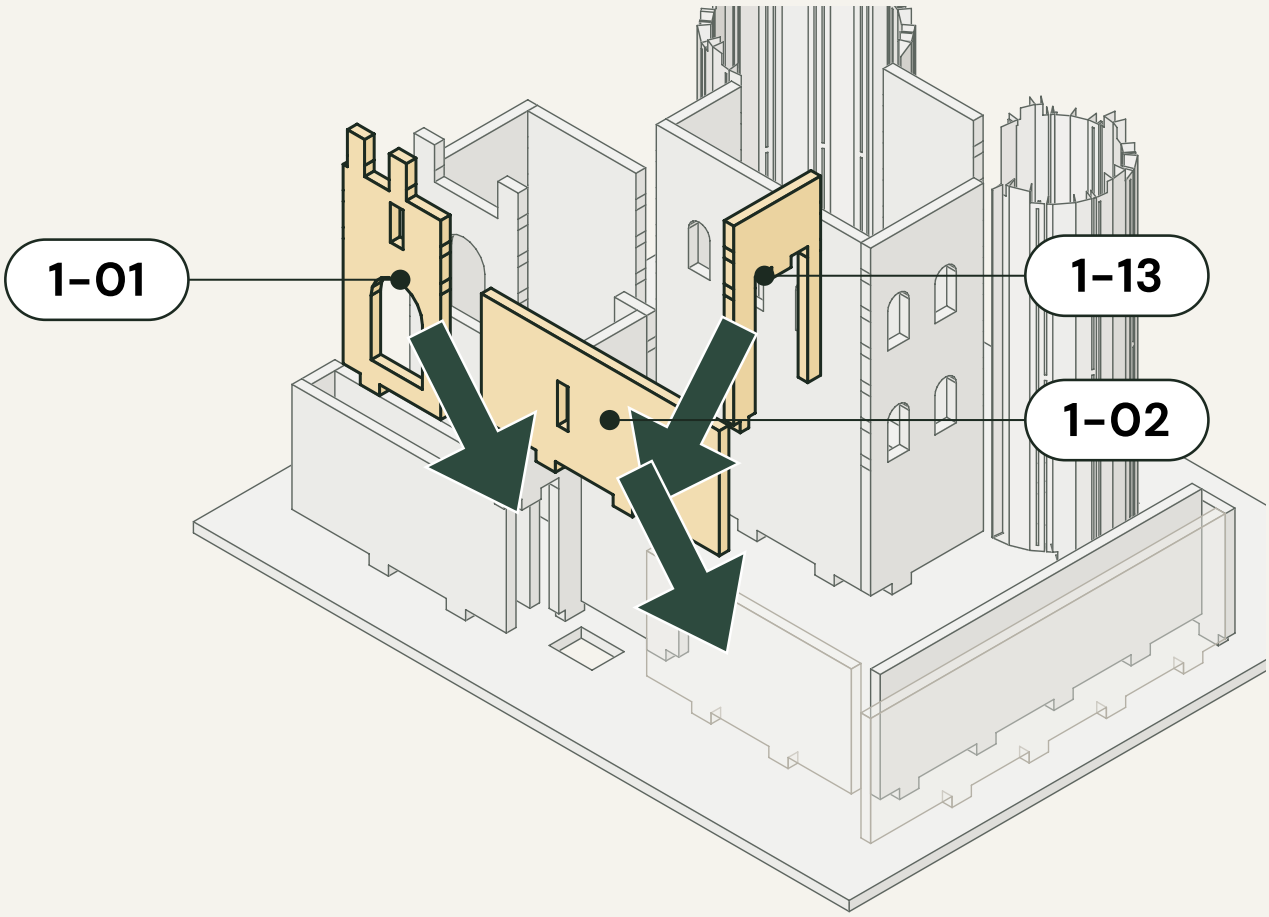


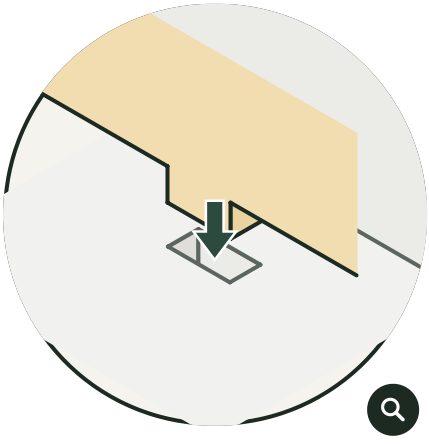


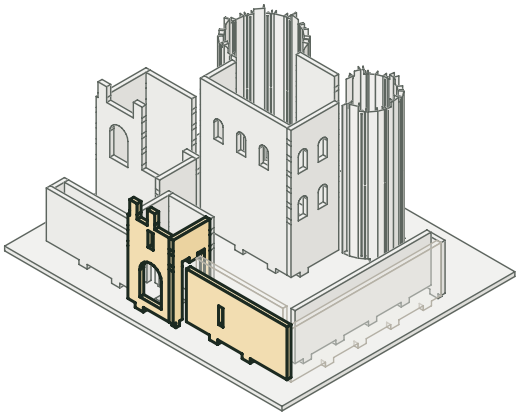


5









6

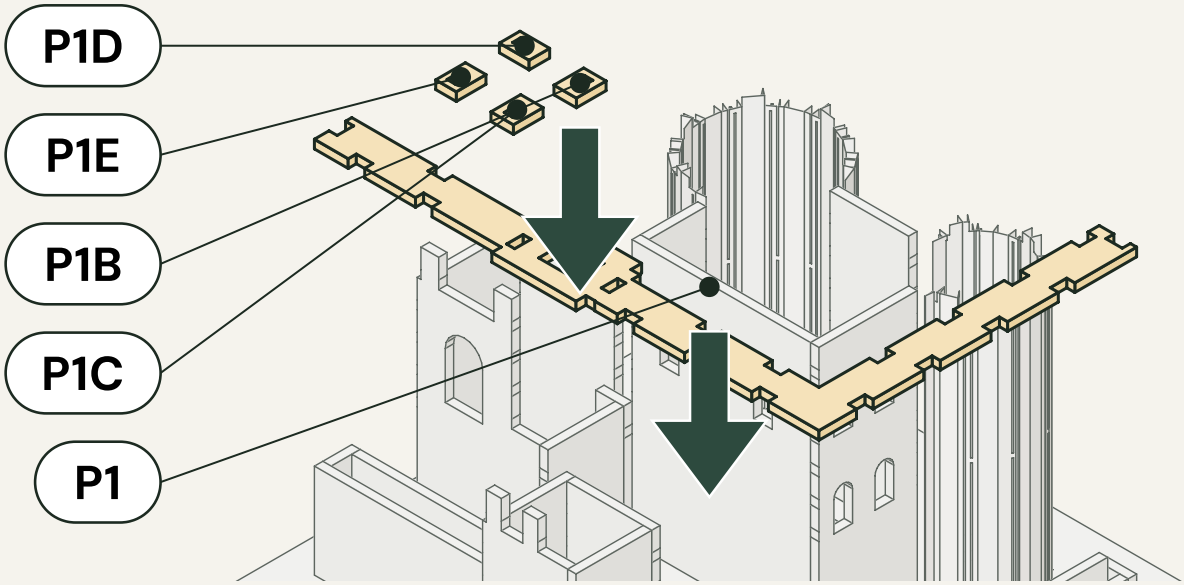
P1 × 1 1

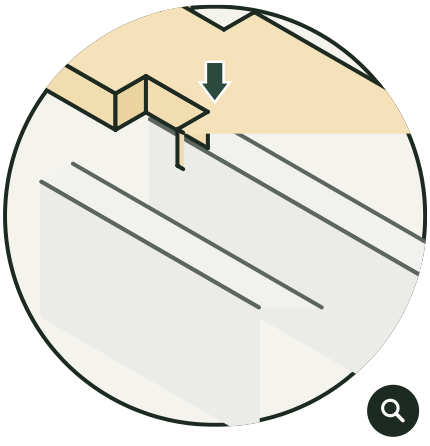
P1B × 1 1

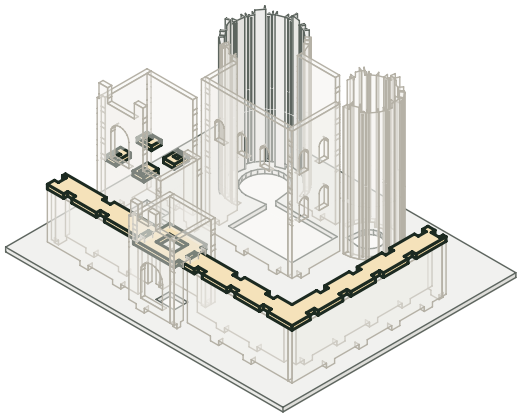
P1C × 1 1

P1D × 1 1

P1E × 1 1







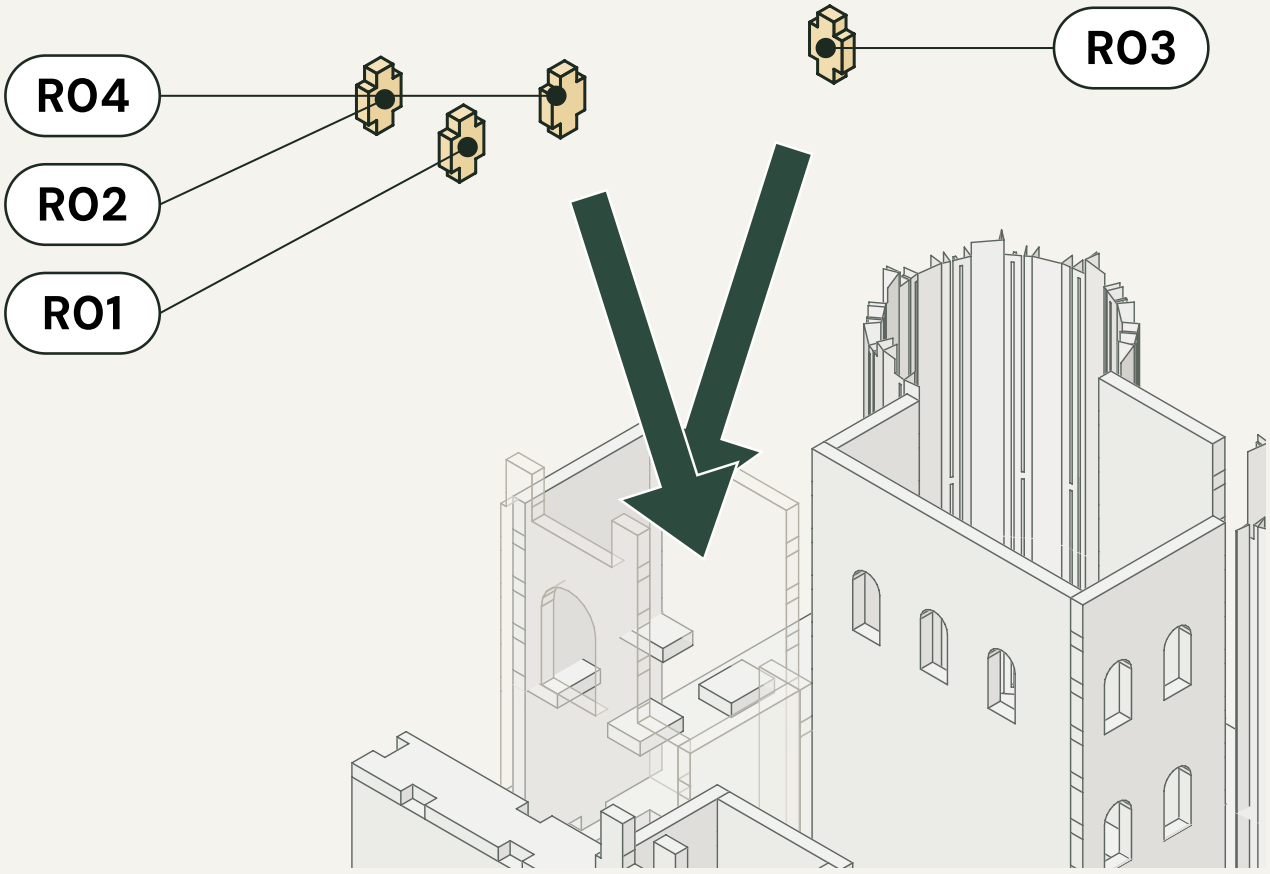
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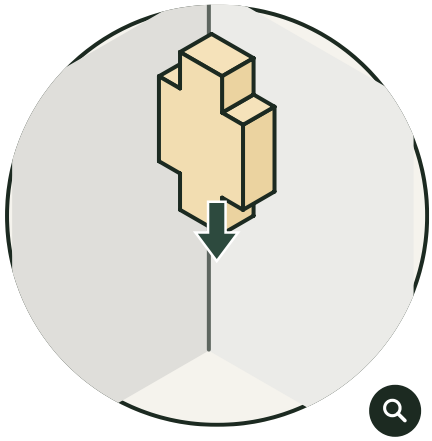
RO3 × 1 1

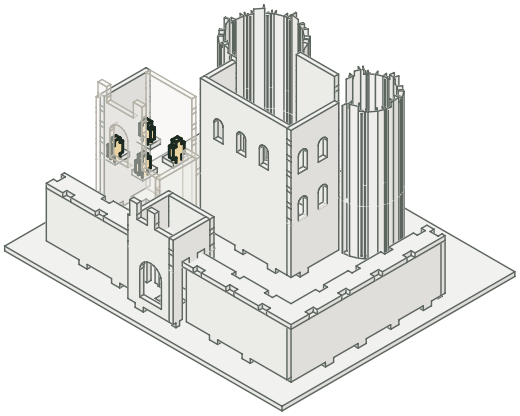
RO4 × 1 1

RO2 × 1 1

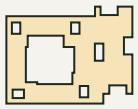
RO1 × 1 1



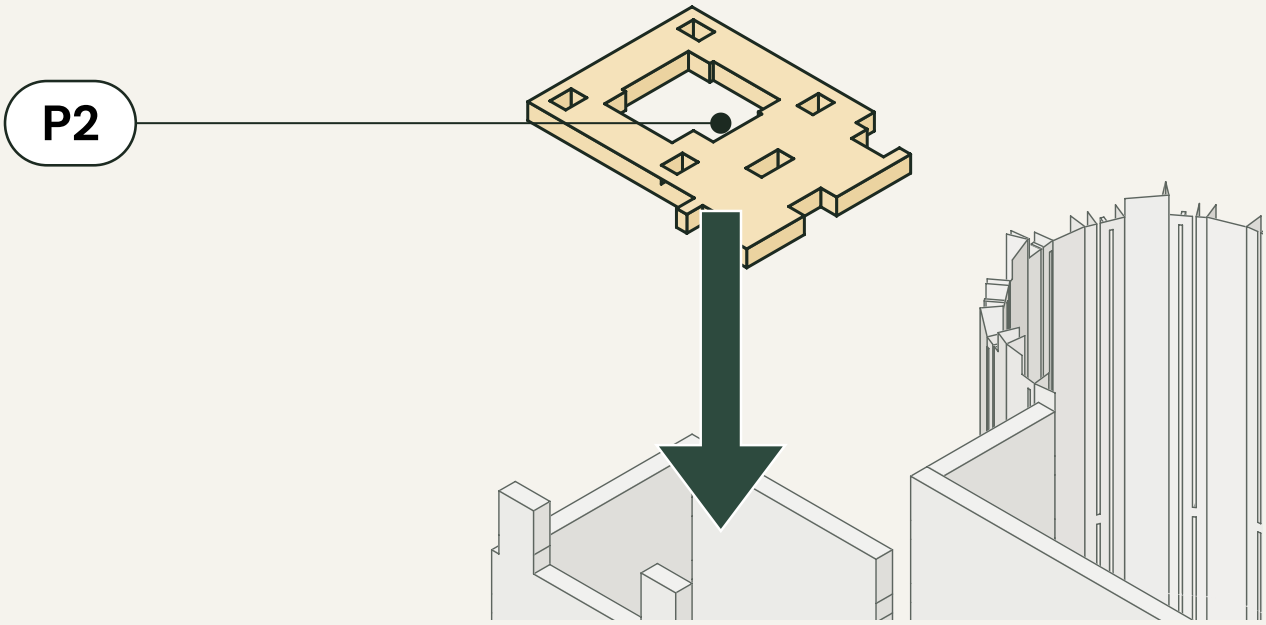


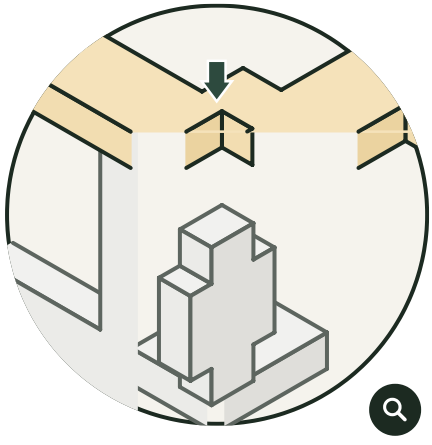


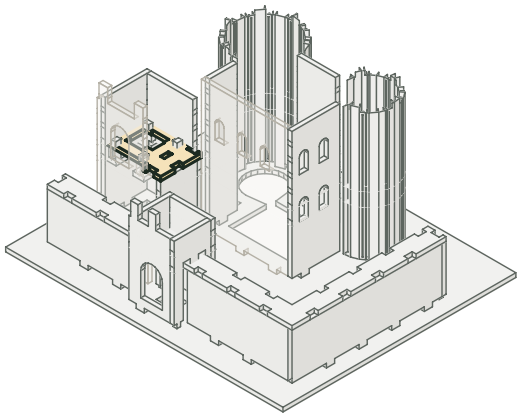
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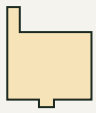
P2 × 1 1



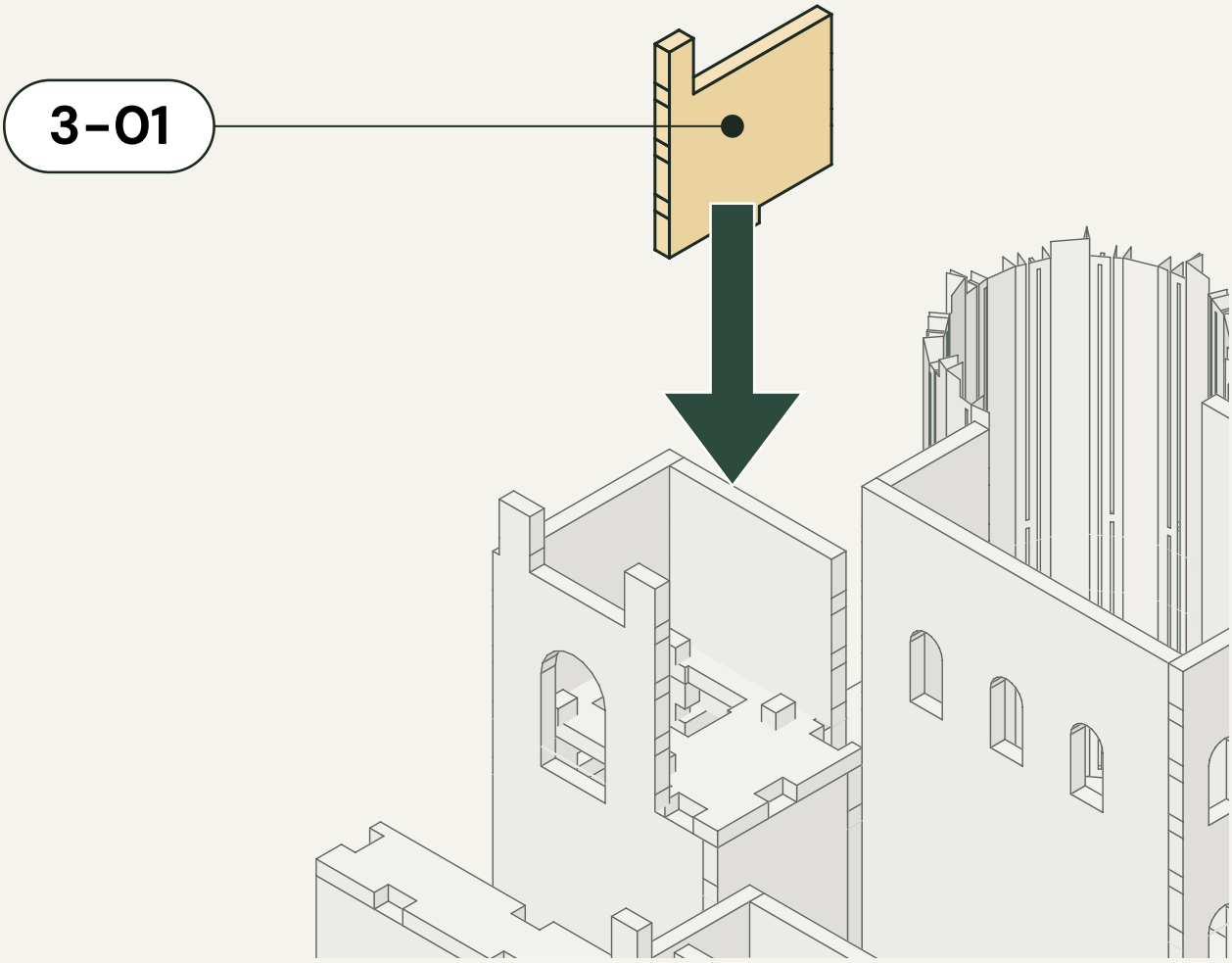


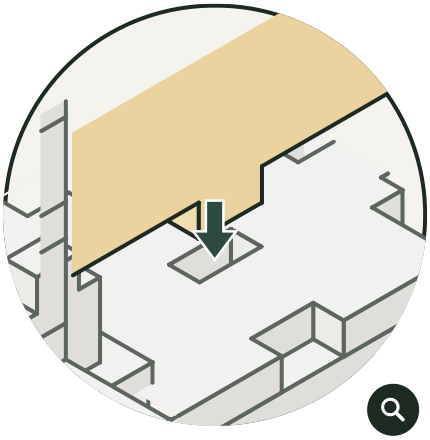


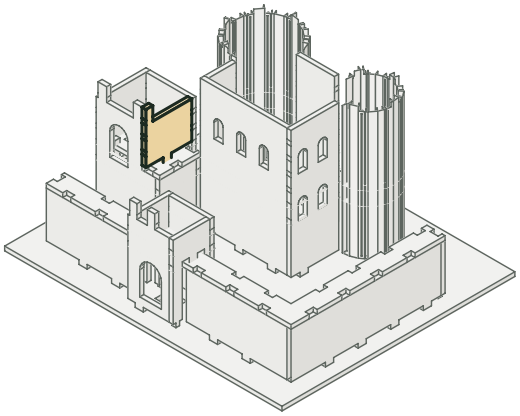
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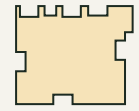
3-01 × 1 1



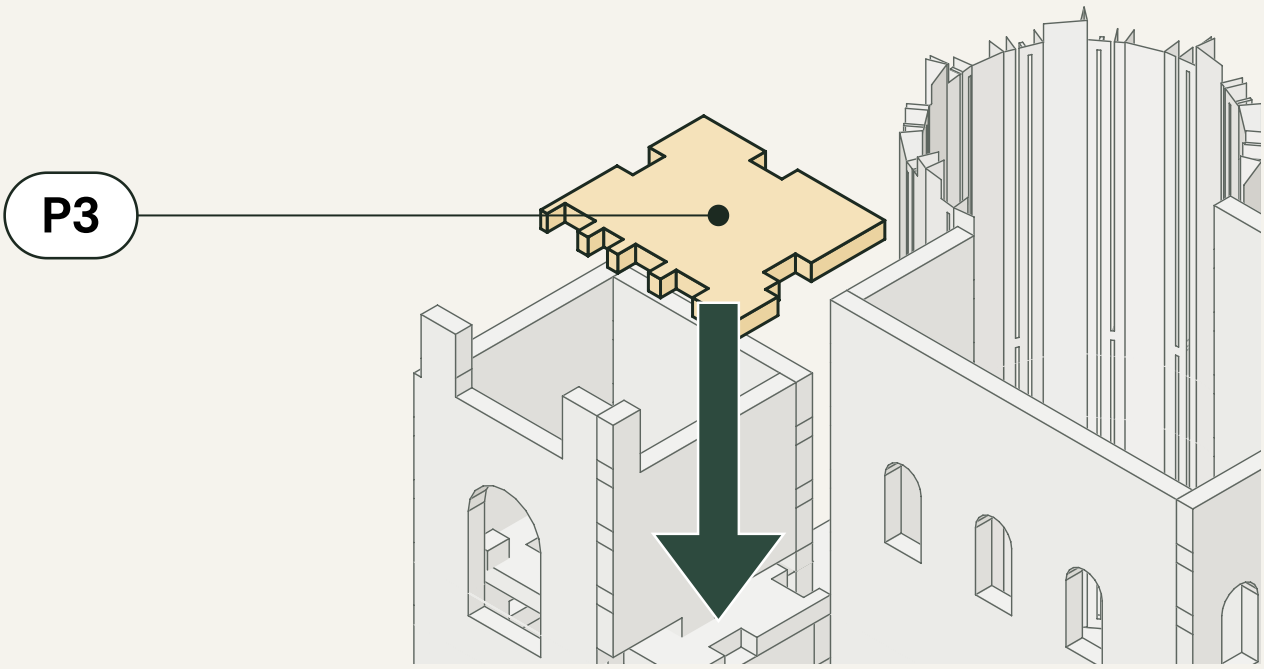


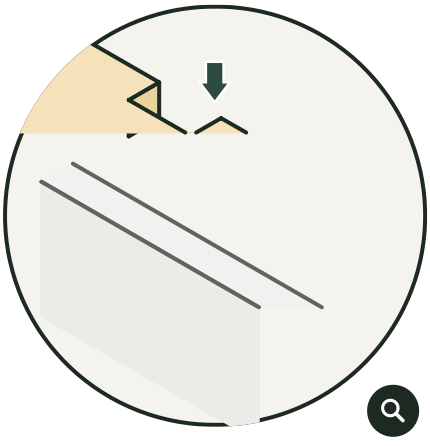


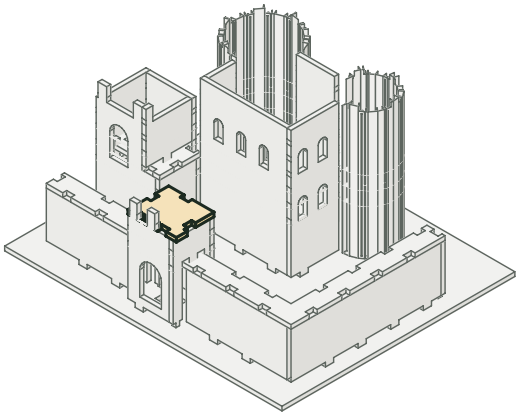
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P3 × 1 1







11

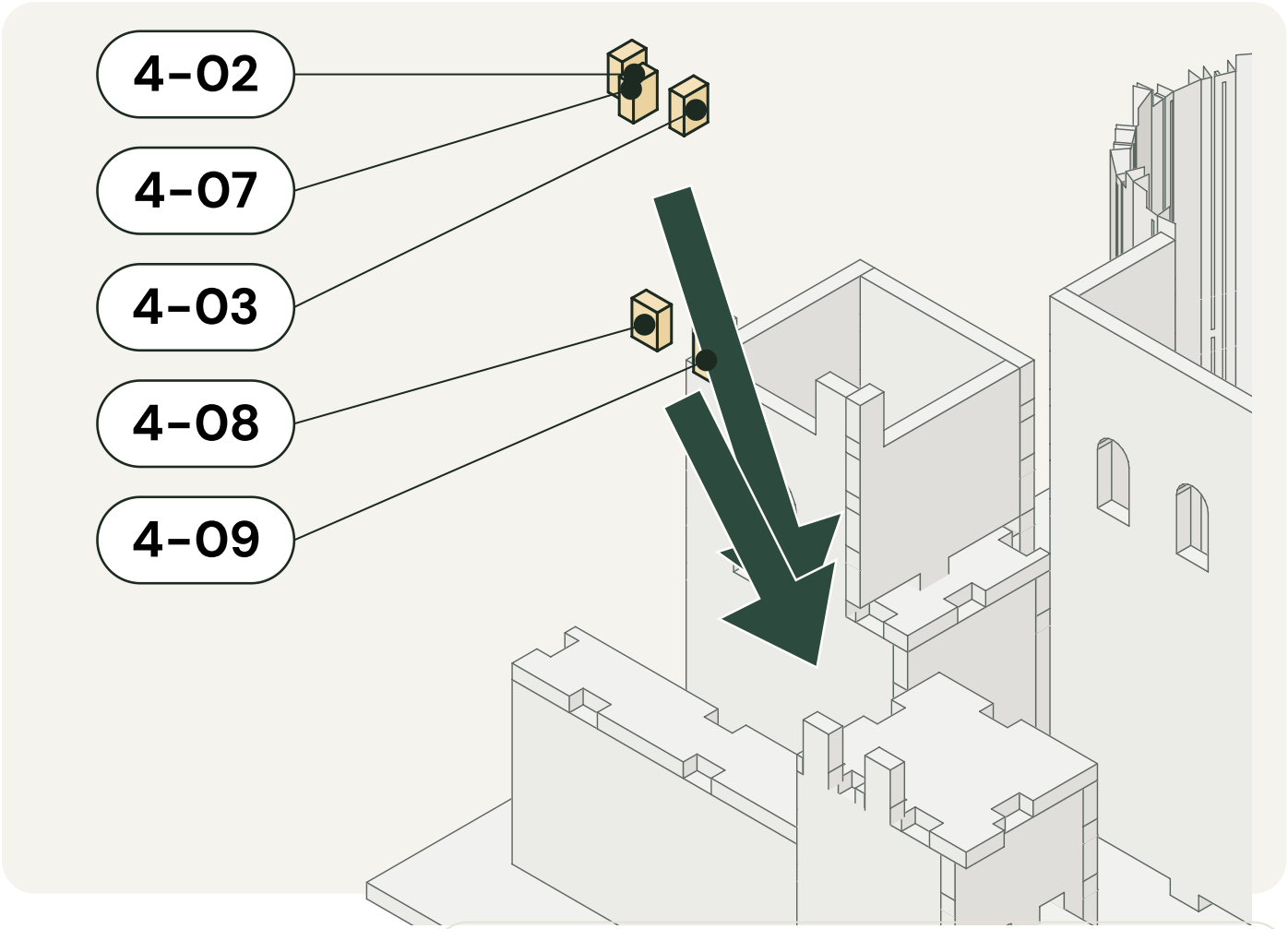
4-02 × 1 1

4-08 × 1 1

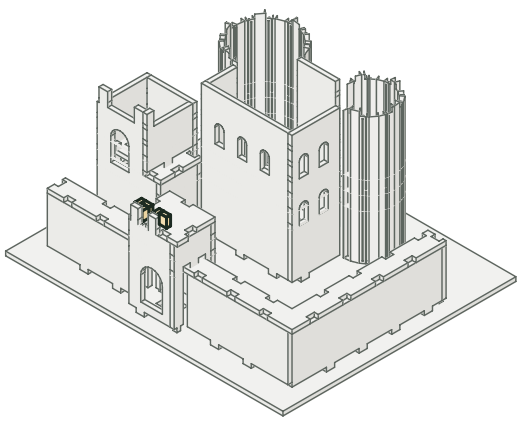
4-07 × 1 1

4-03 × 1 1

4-09 × 1 1







12

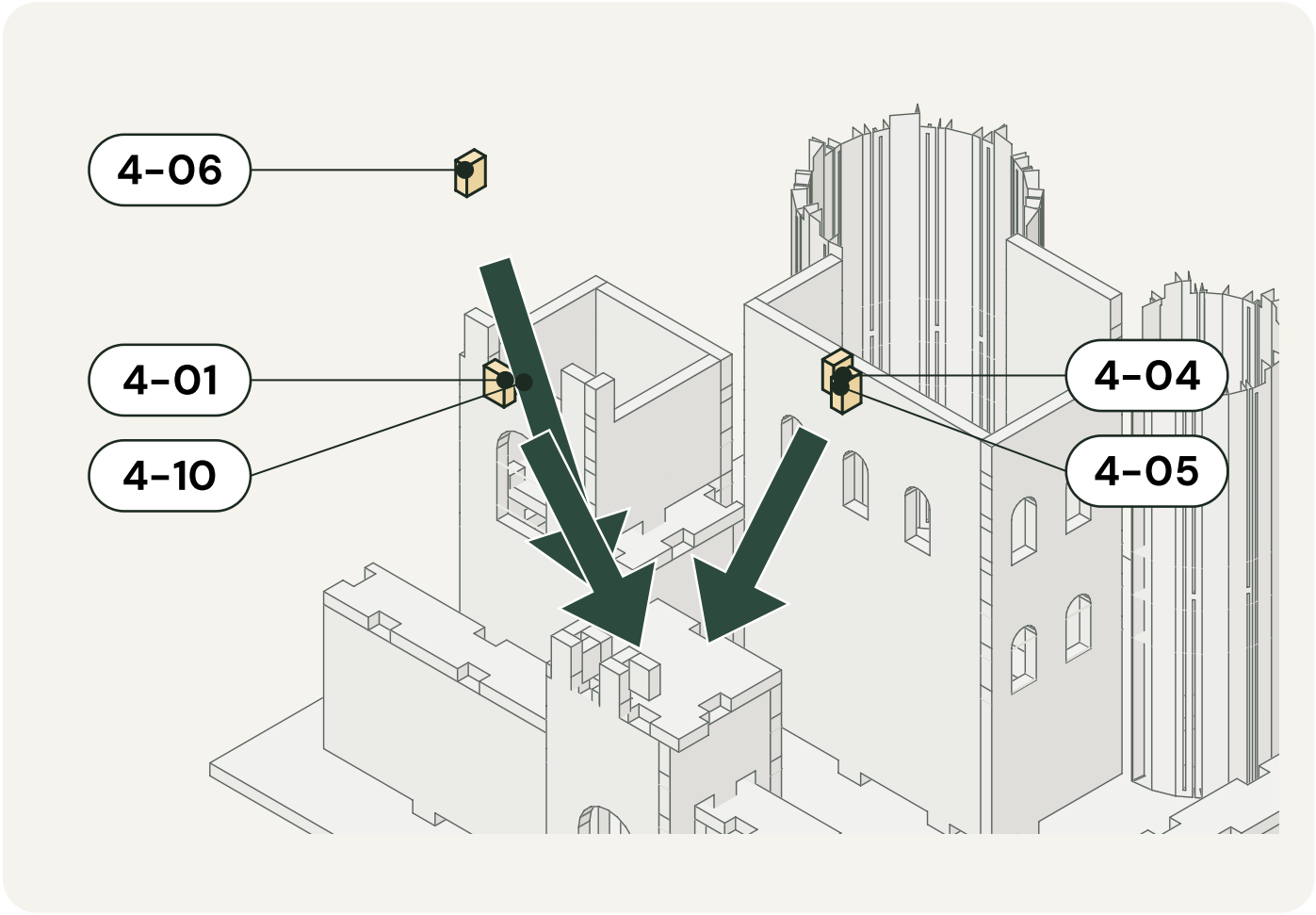

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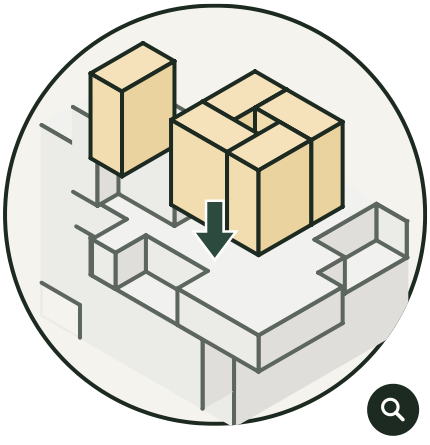

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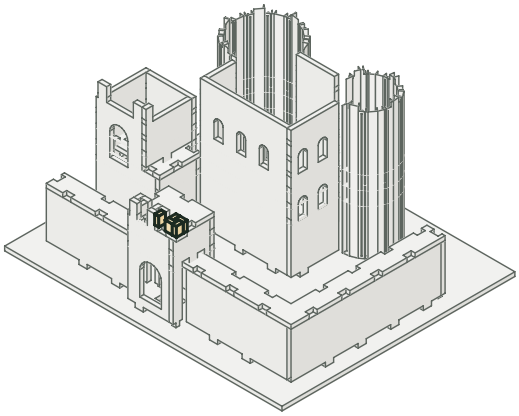

4-04 × 1 1


4-10 × 1 1


4-05 × 1 1





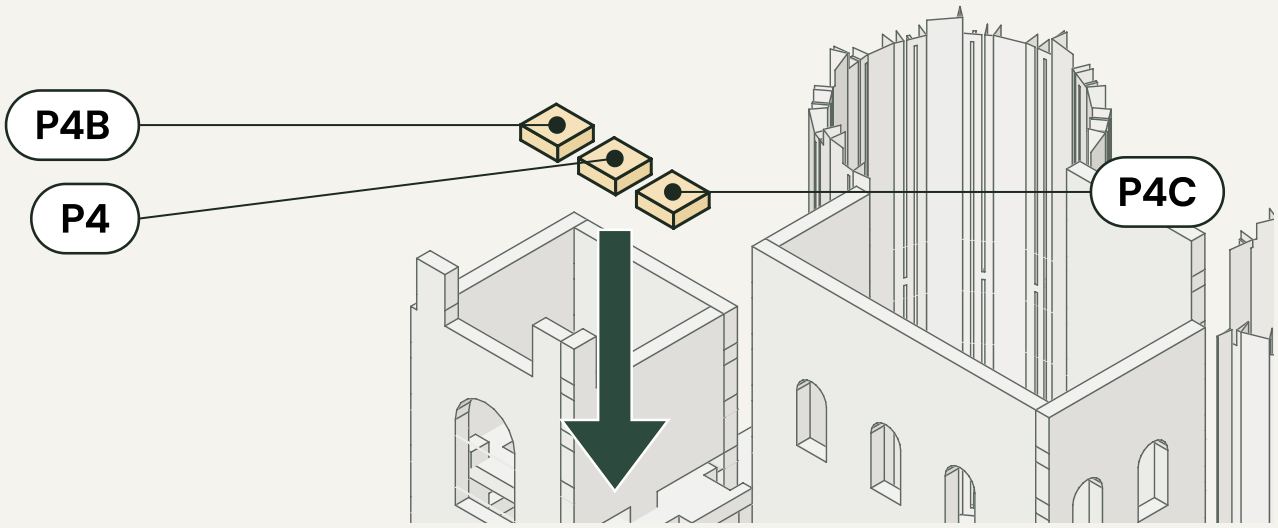


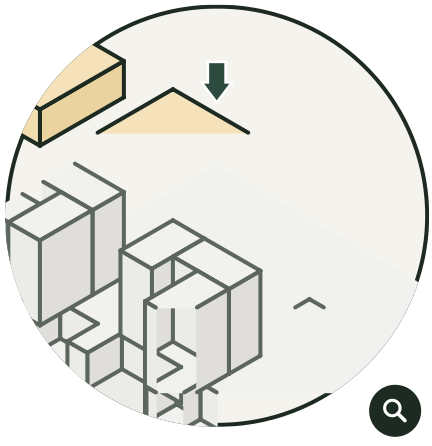
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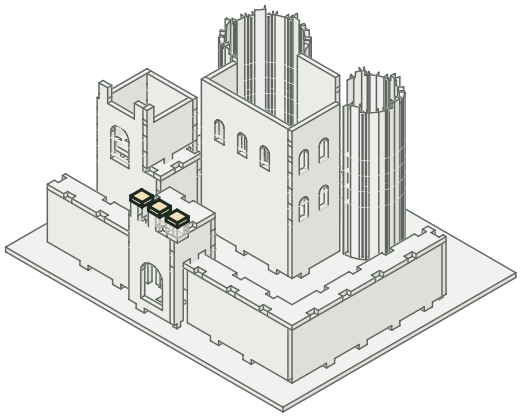
P4 × 1 1

P4B × 1 1

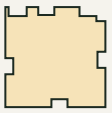
P4C × 1 1



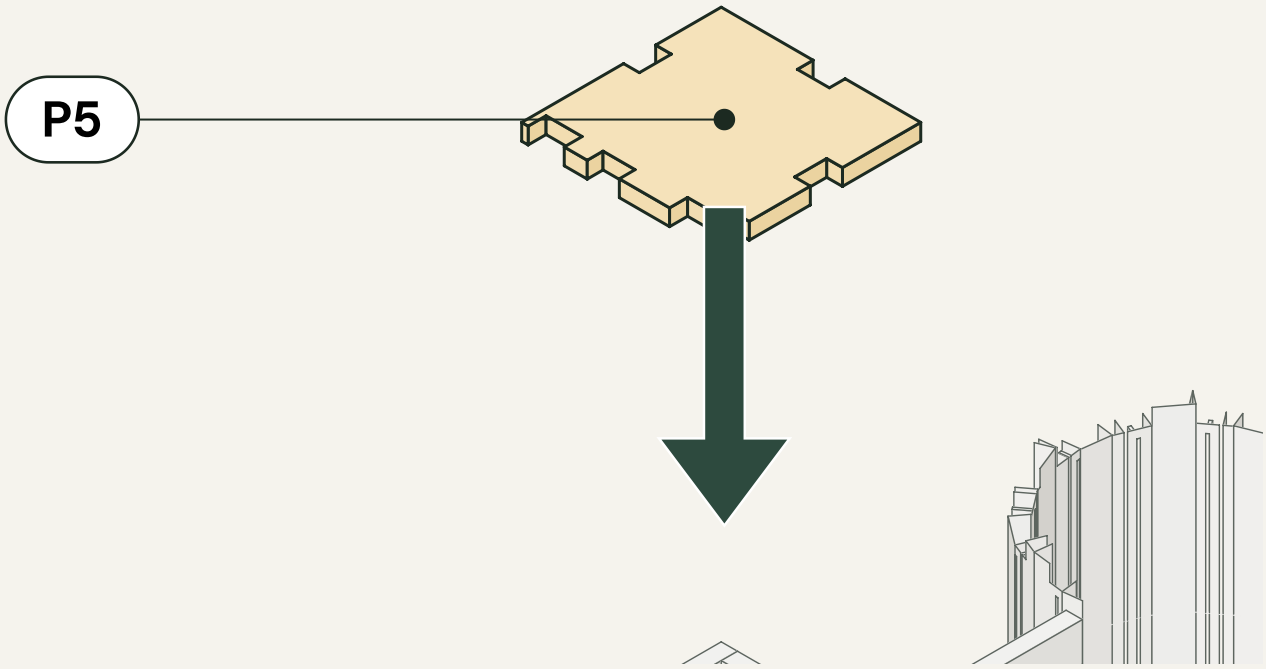


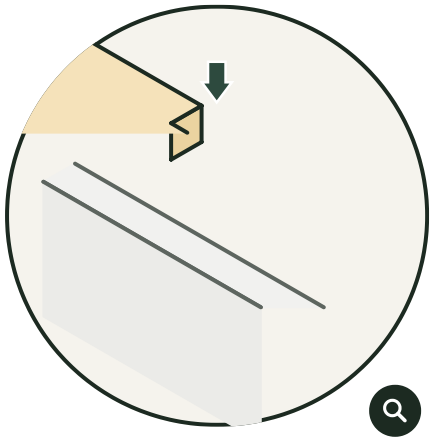


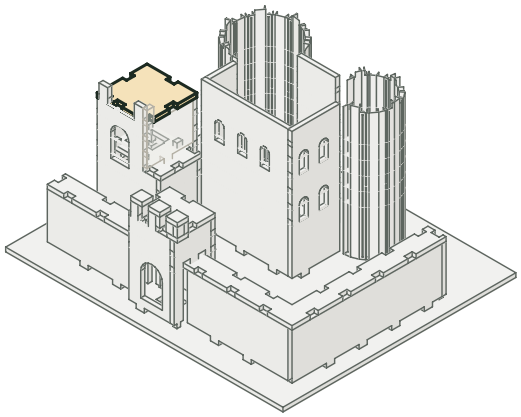
14



P5 × 1 1







15

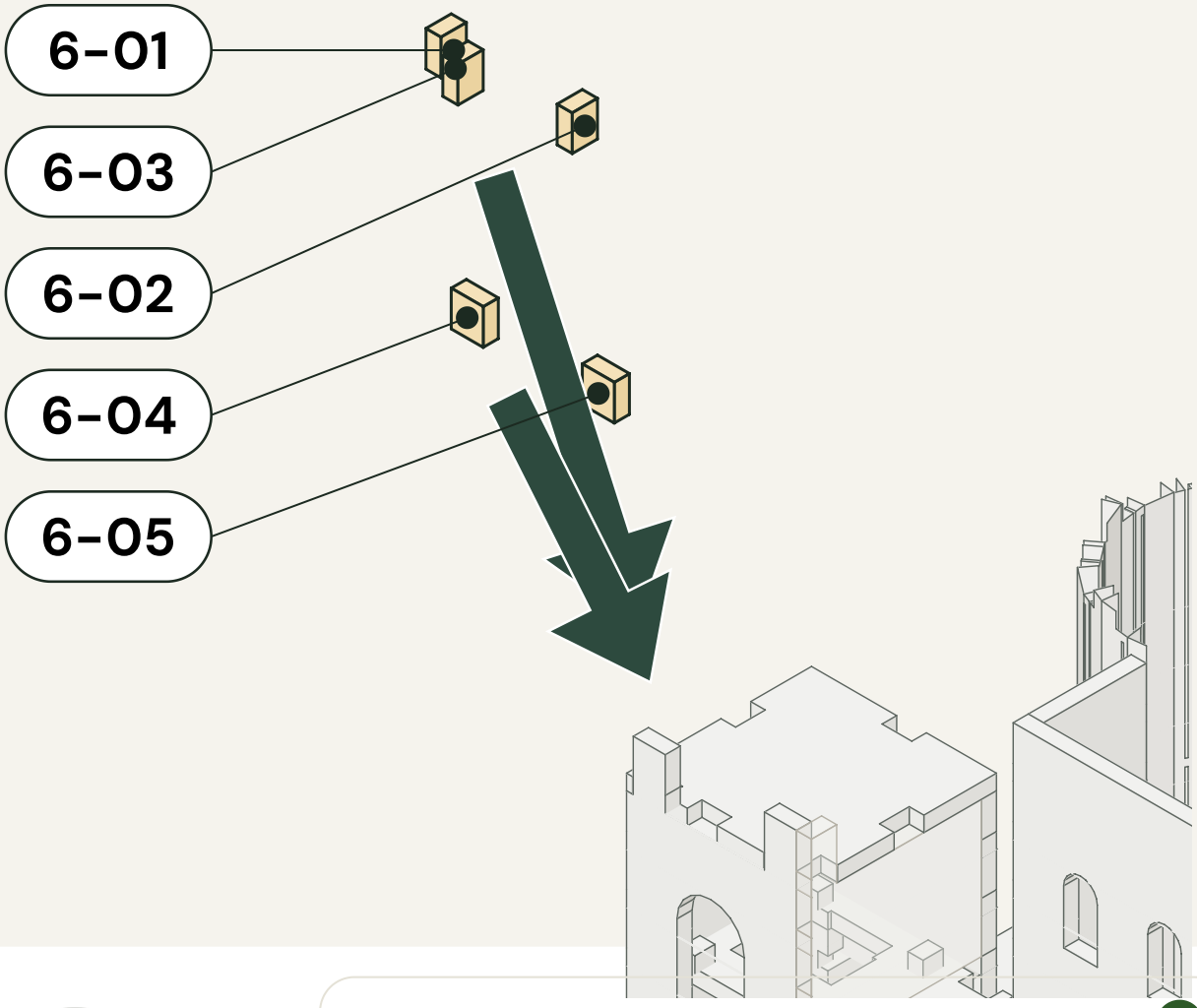

6-01 × 1 1

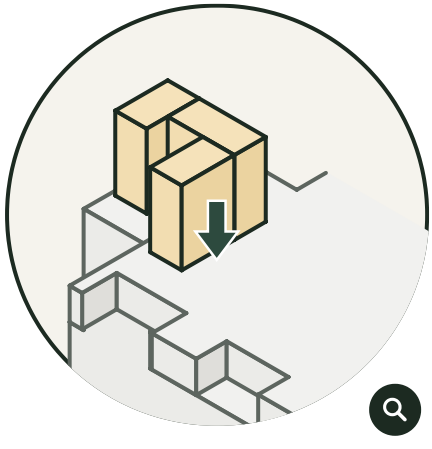

6-04 × 1 1

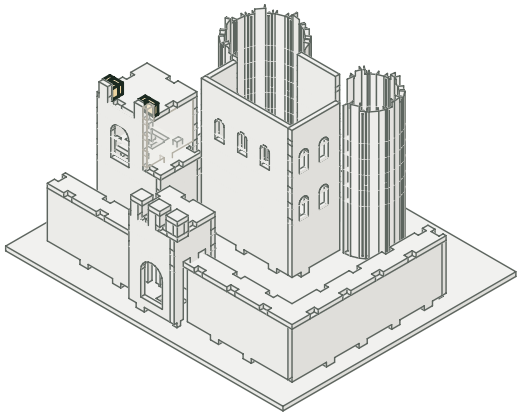

6-03 × 1 1


6-02 × 1 1

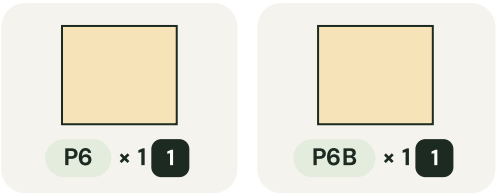

6-05 × 1 1

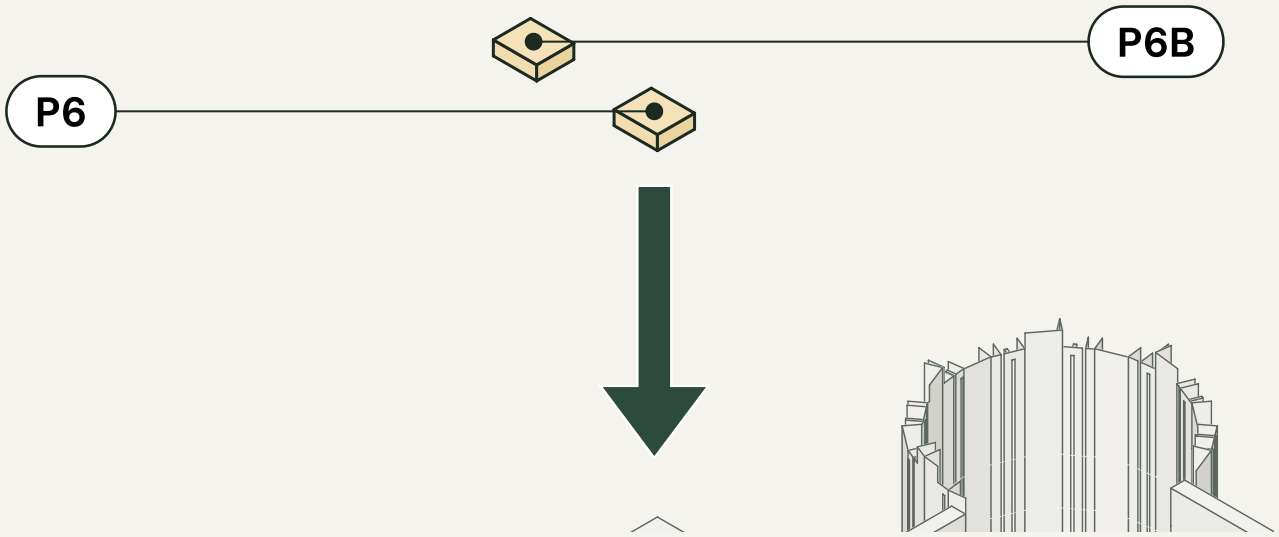


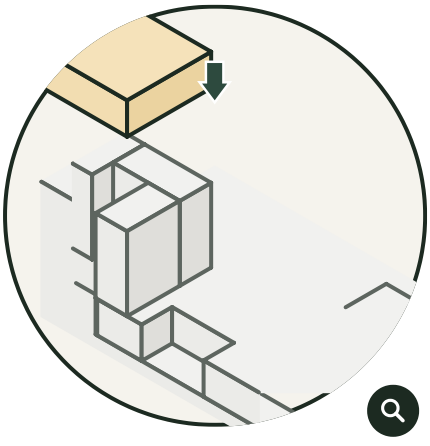


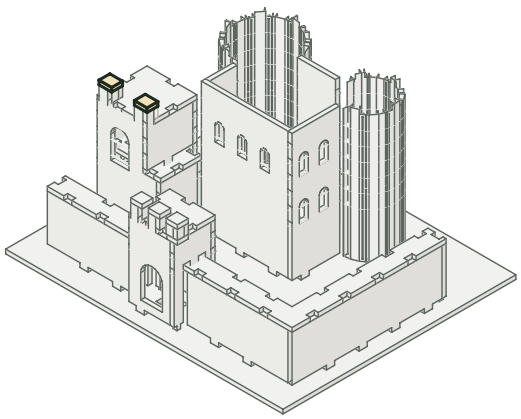


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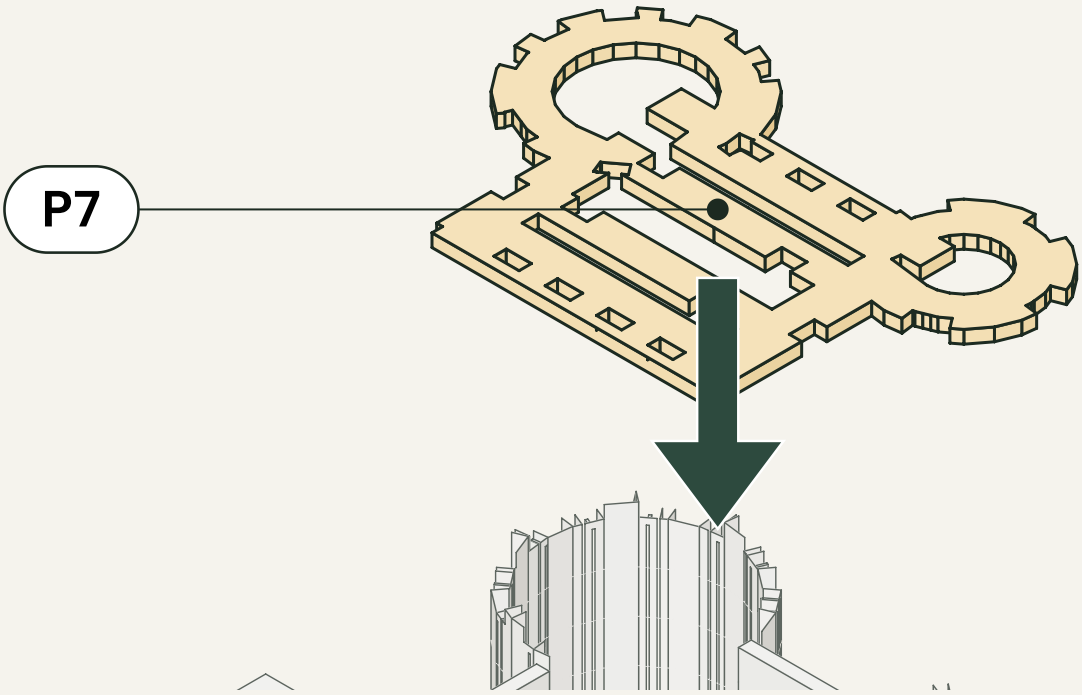


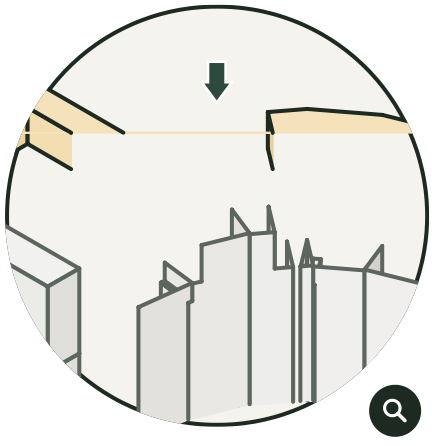


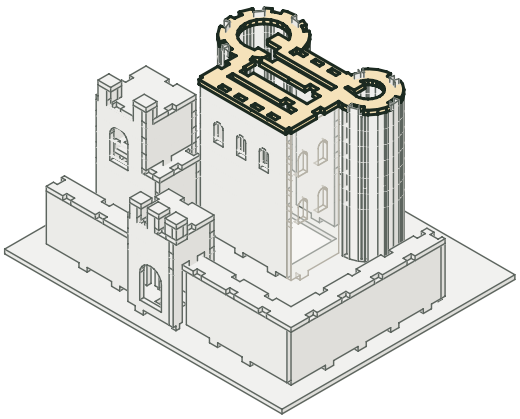
17



P7 × 1 1







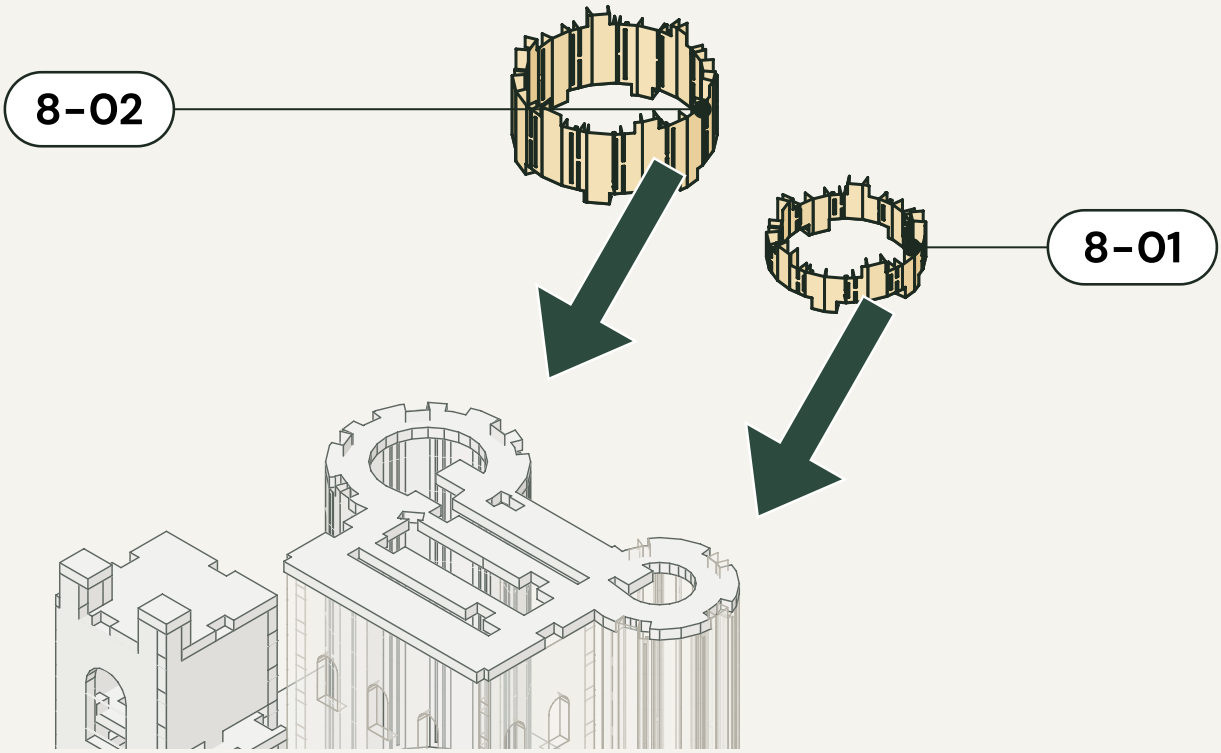
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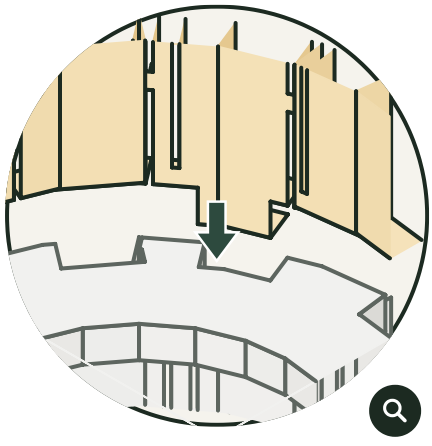


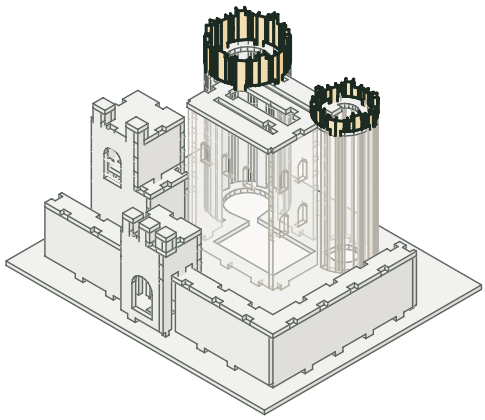
8-02 × 1 1



8-01 × 1 1



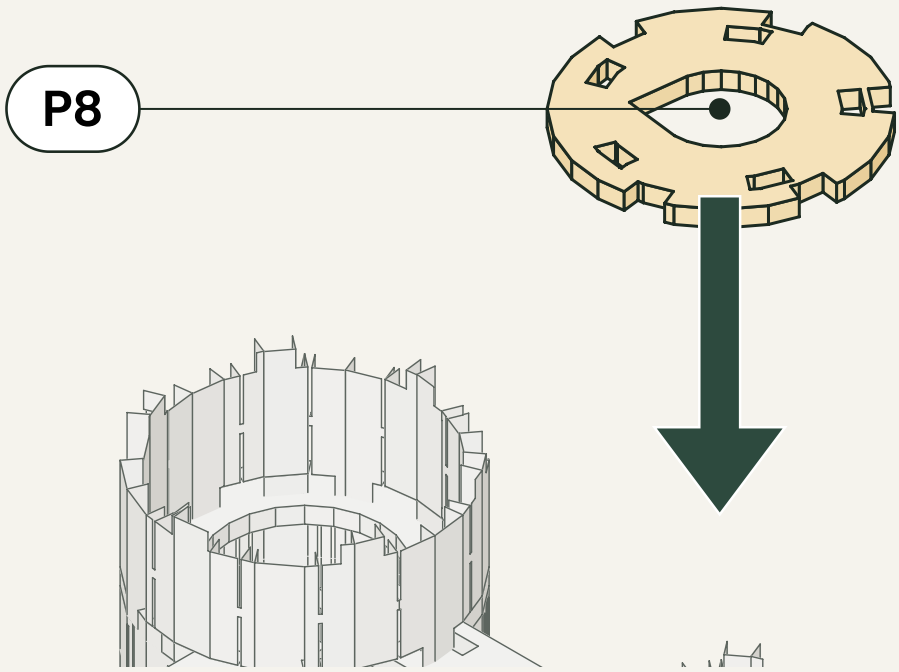


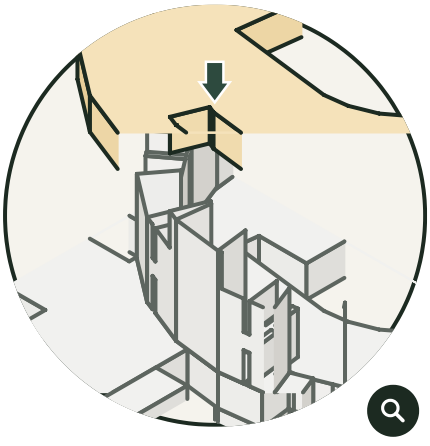


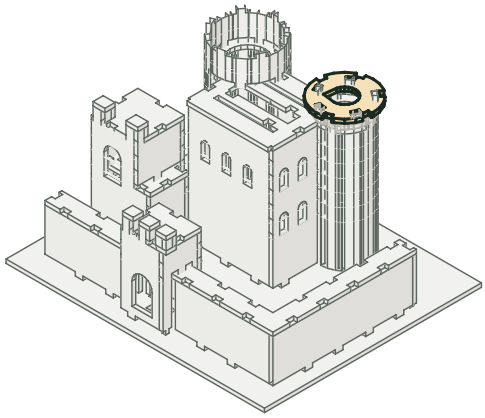
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P8 × 1 1



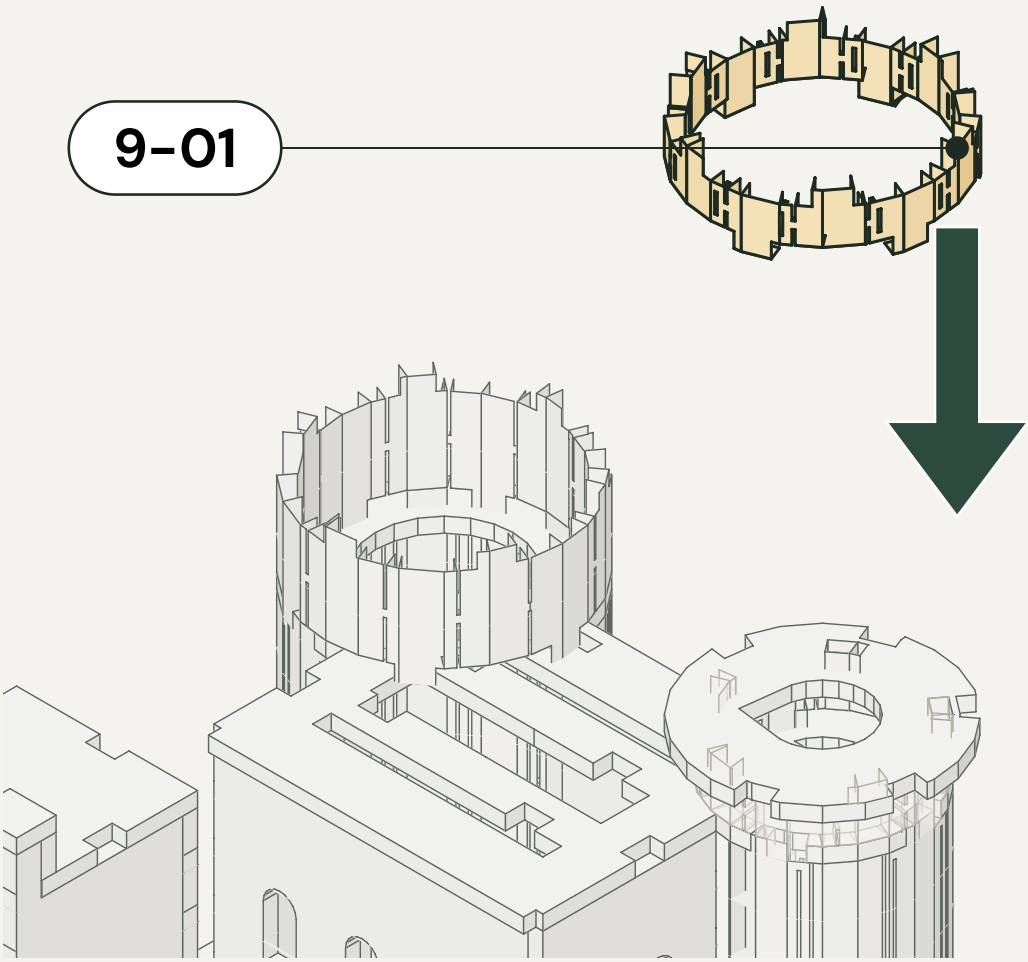


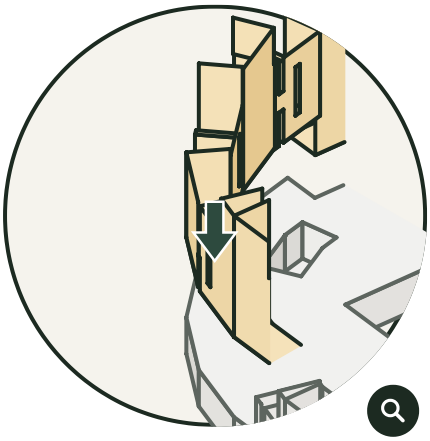


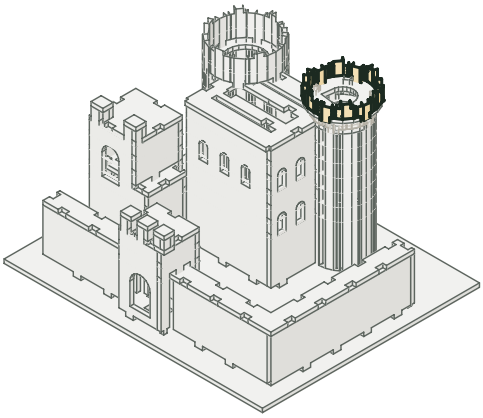
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9-01 × 1 1







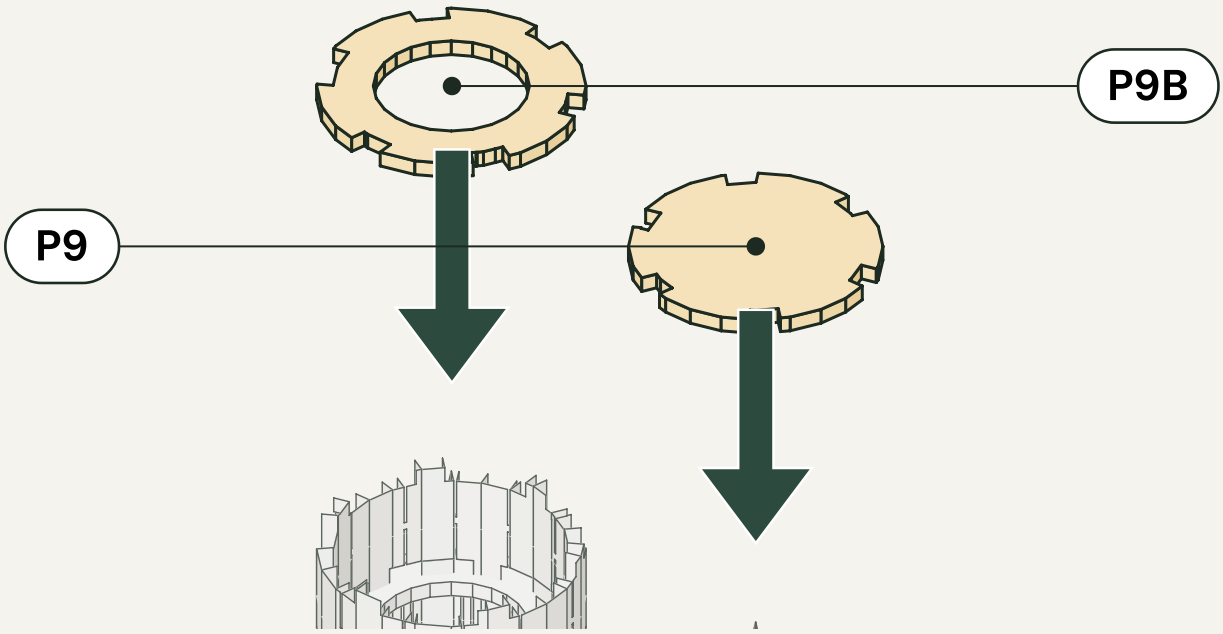
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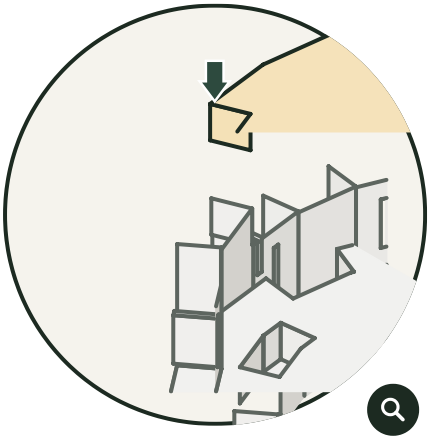


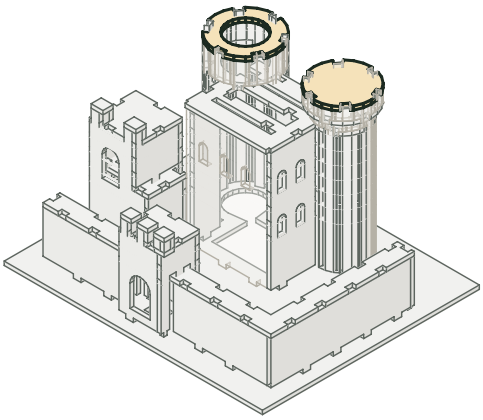
P9 × 1 1



P9B × 1 1



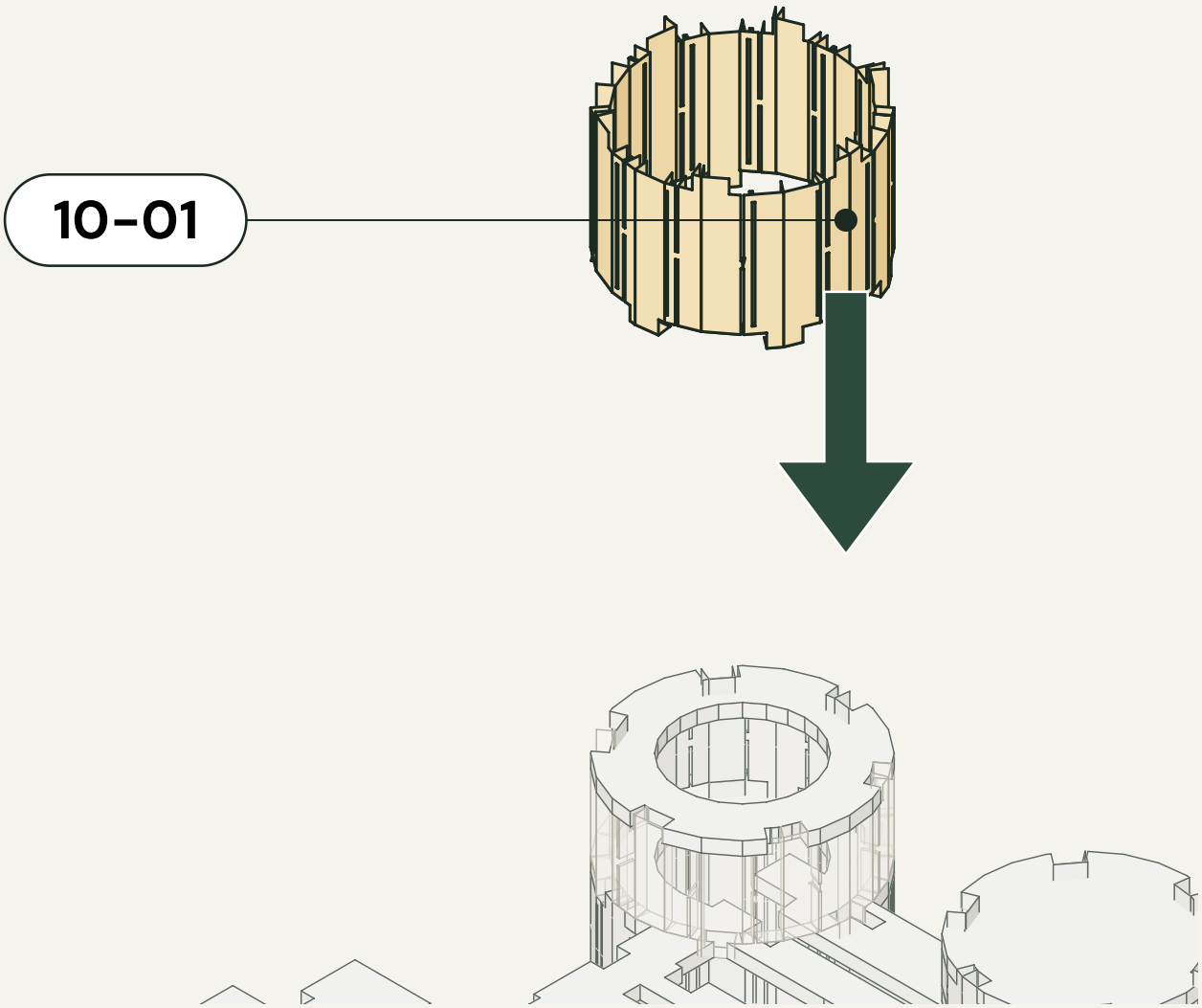


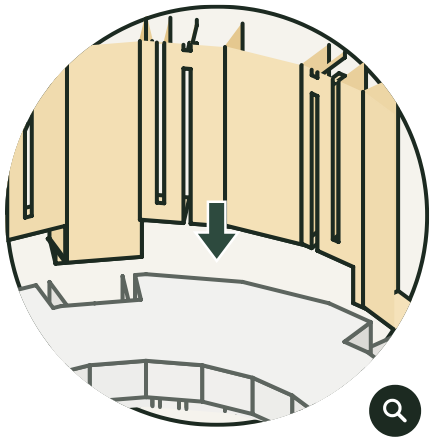


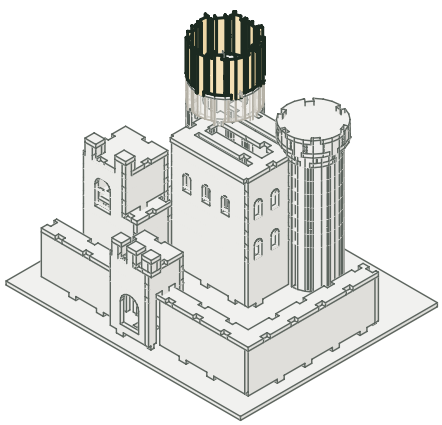
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10-01 × 1 1



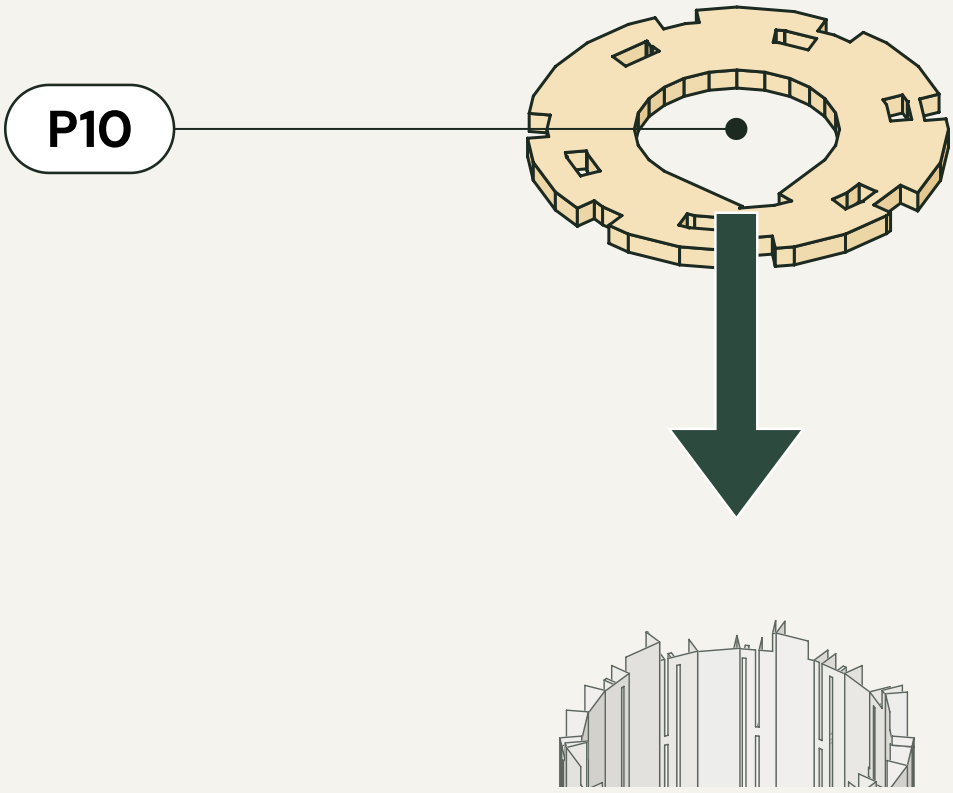


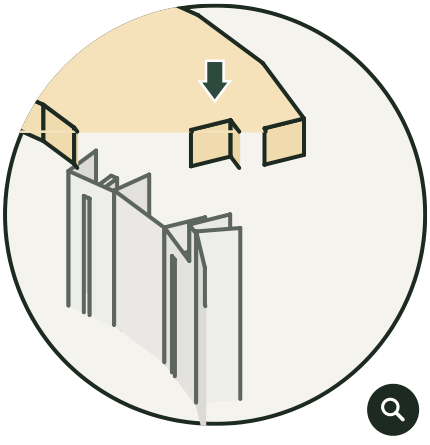


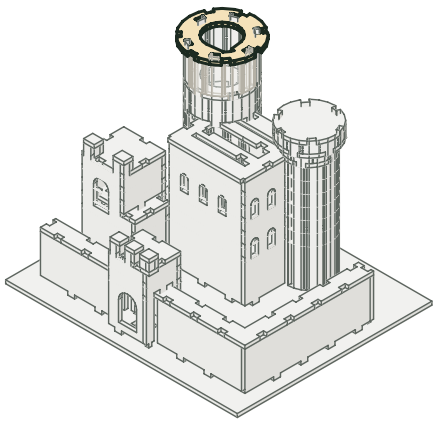
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P10 × 1 1



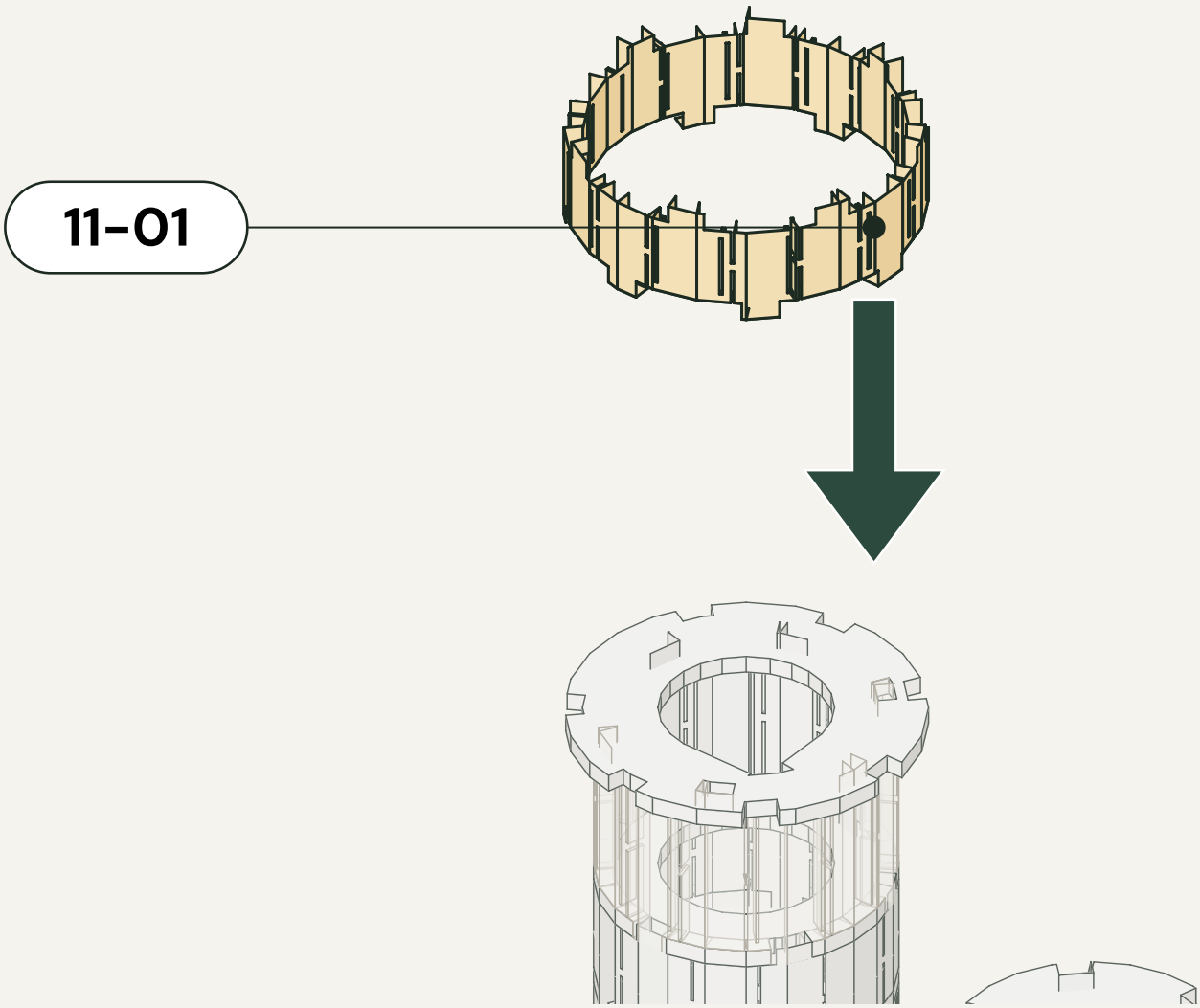


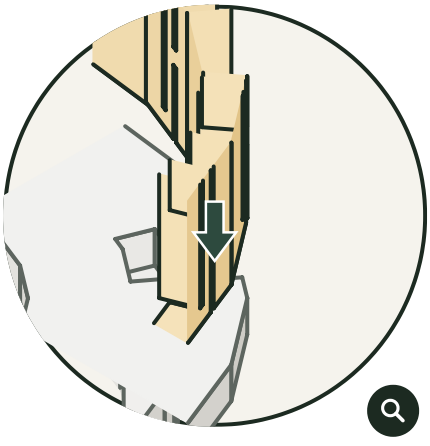


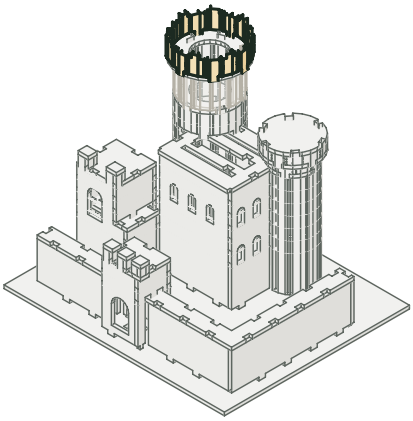
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11-01 × 1 1



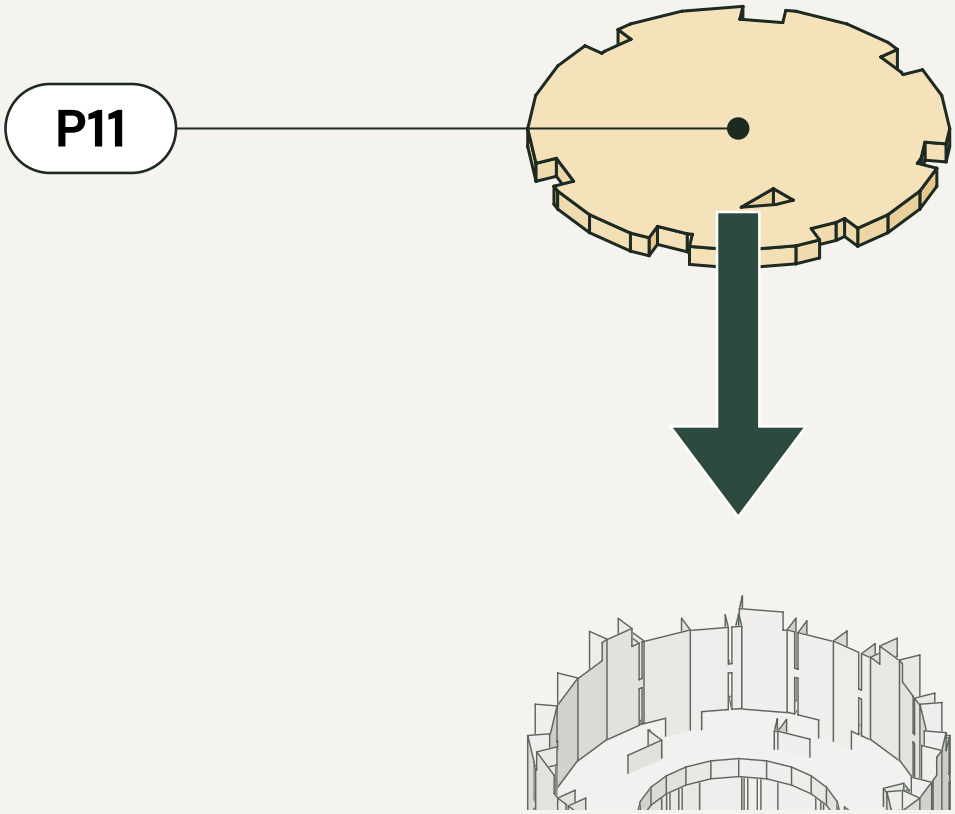


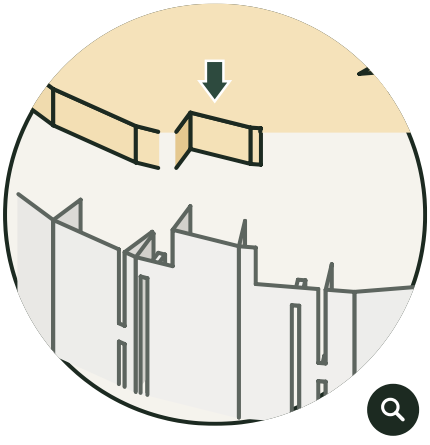


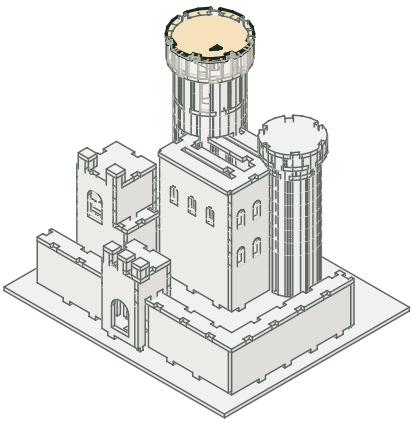
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P11 × 1 1





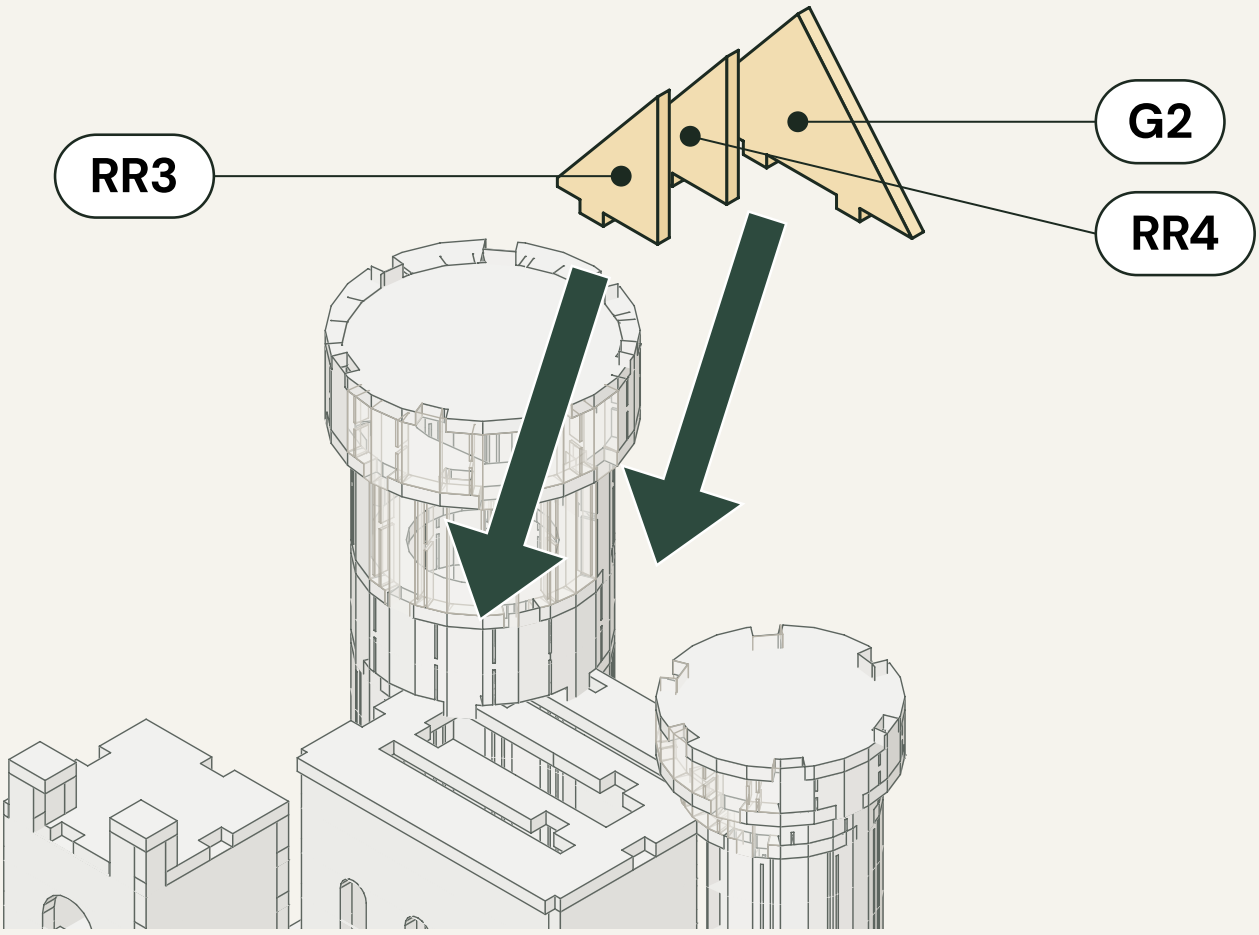


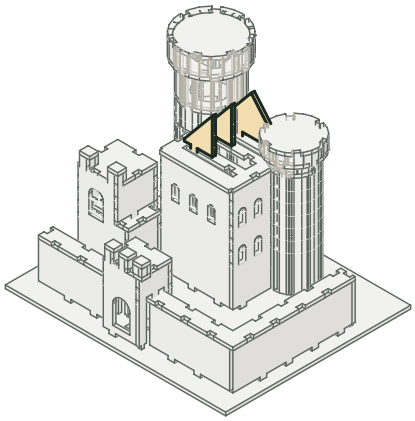
26


G2 × 1 1


RR4 × 1 1


RR3 × 1 1



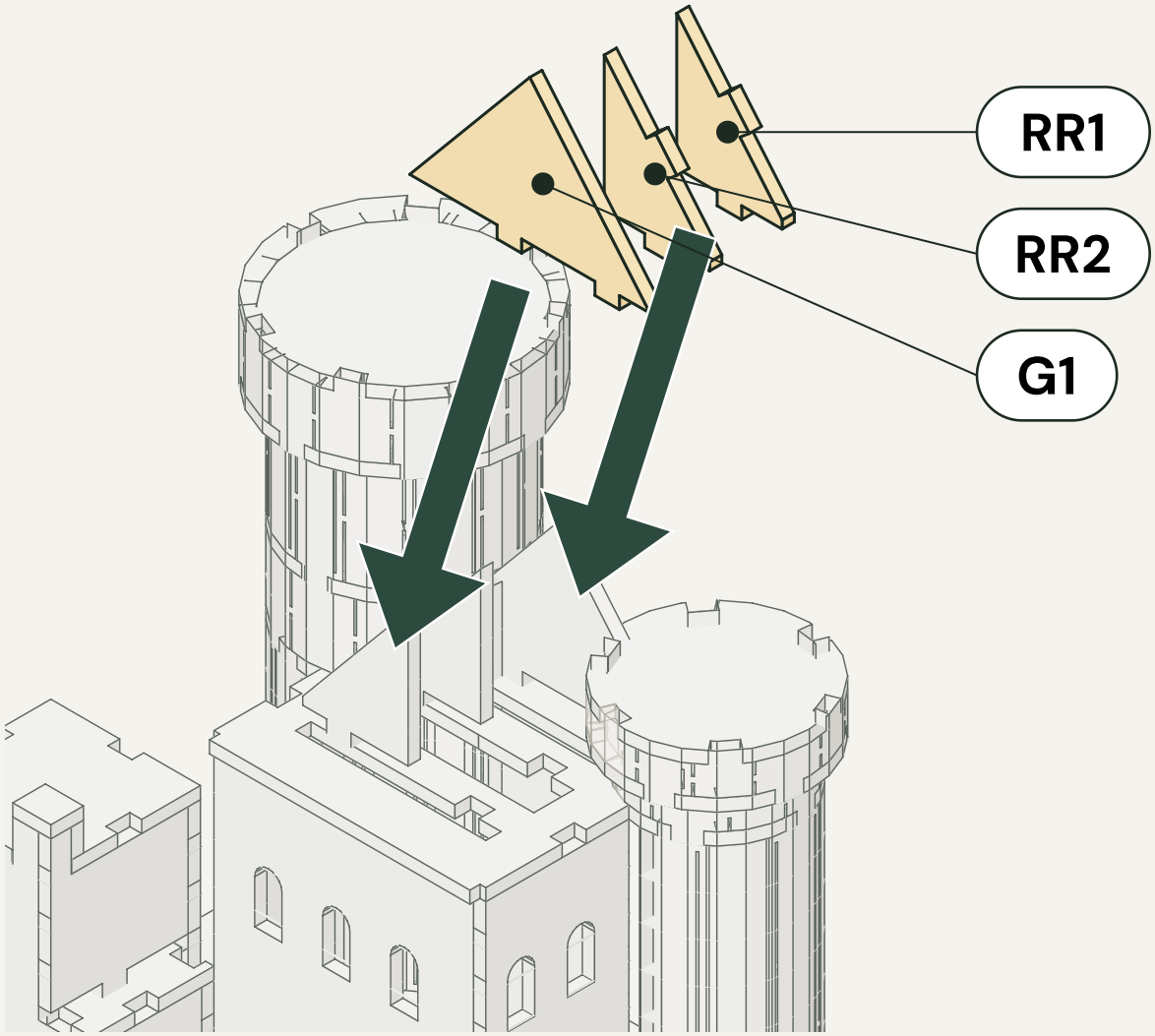


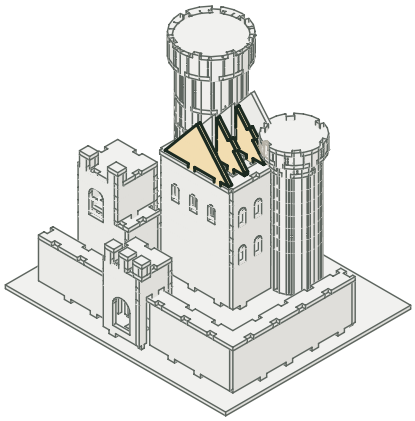
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RR1 × 1 1

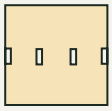
RR2 × 1 1

G1 × 1 1

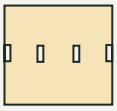




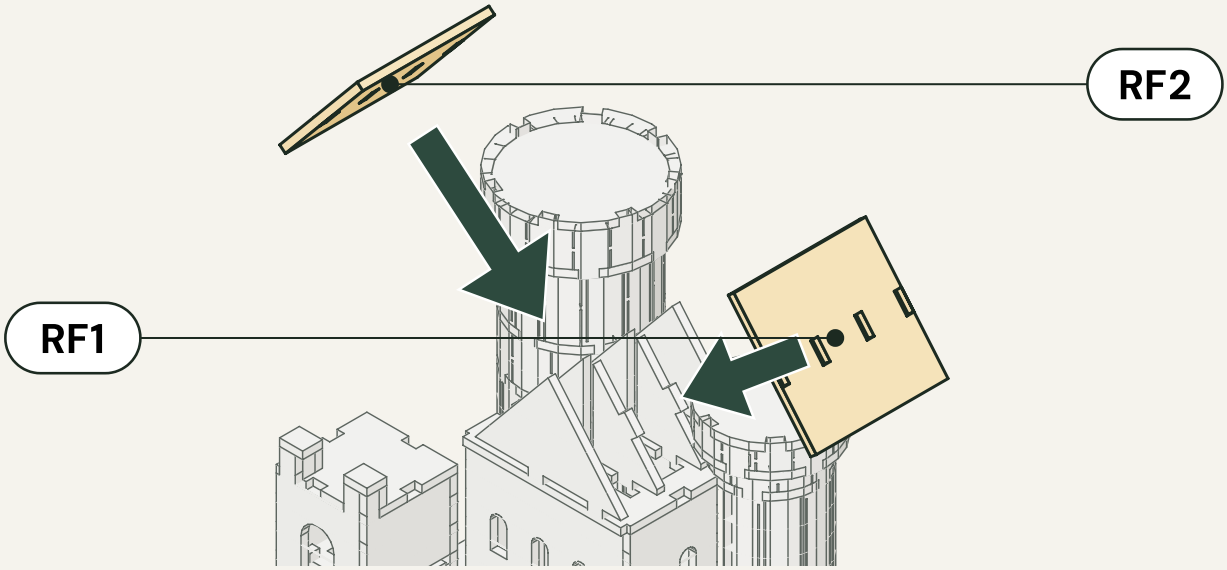
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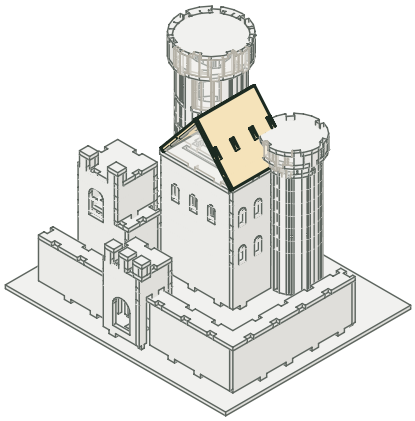


RF1 × 1 1



RF2 × 1 1





Finished

Your maquette

