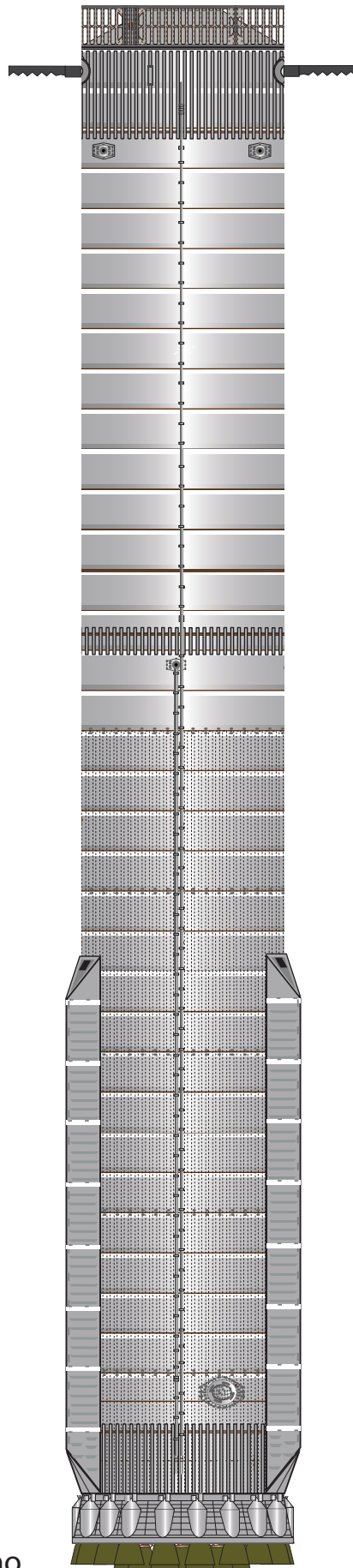
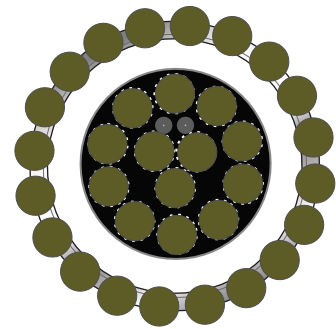
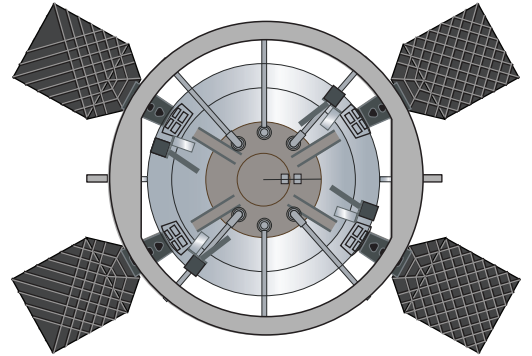
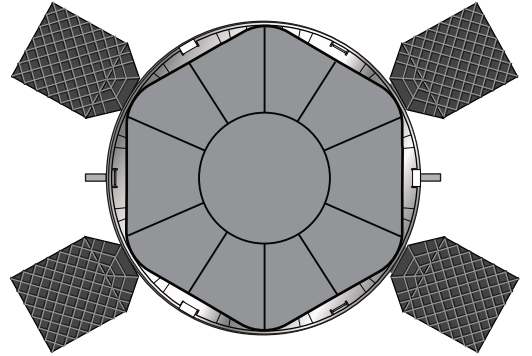




1:100 Scale



# B13



Designed by Alfonso X Moreno

©2024 Not for commercial use



1 cm

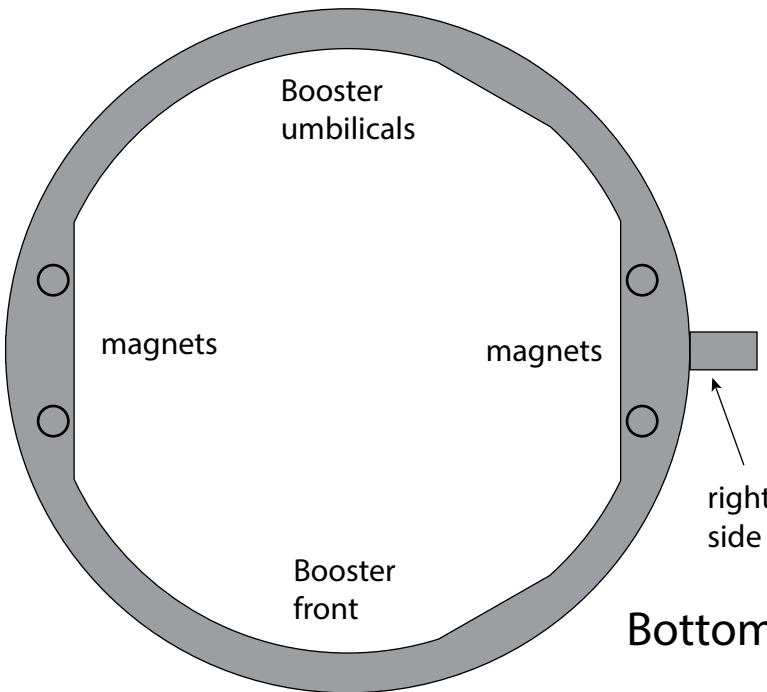
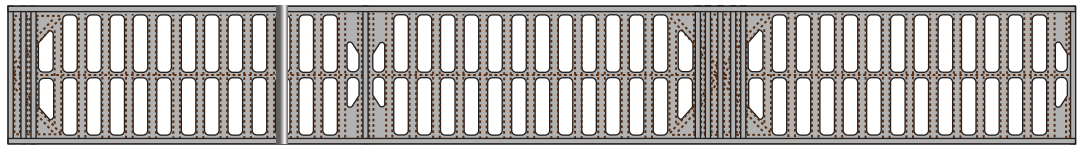
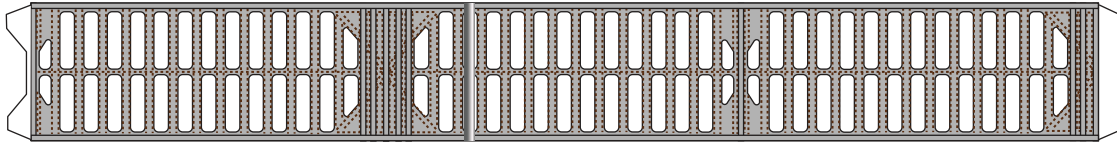
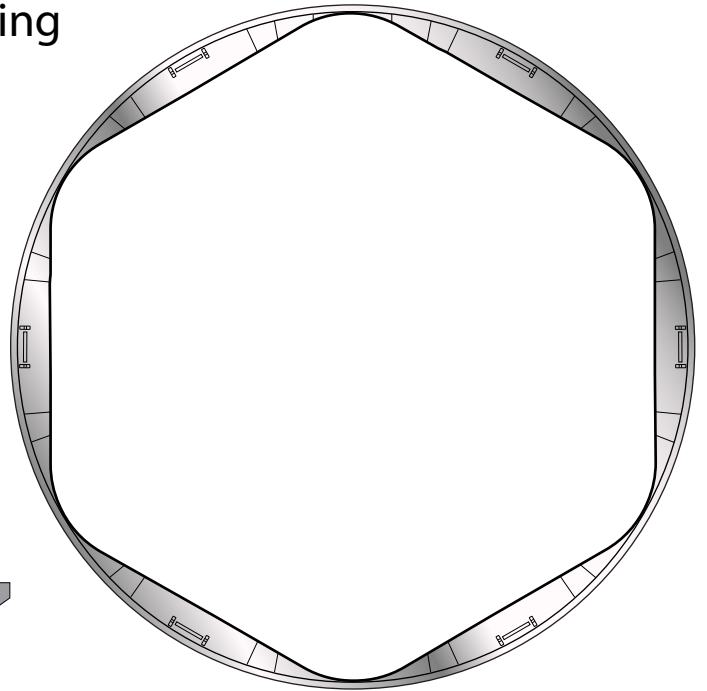
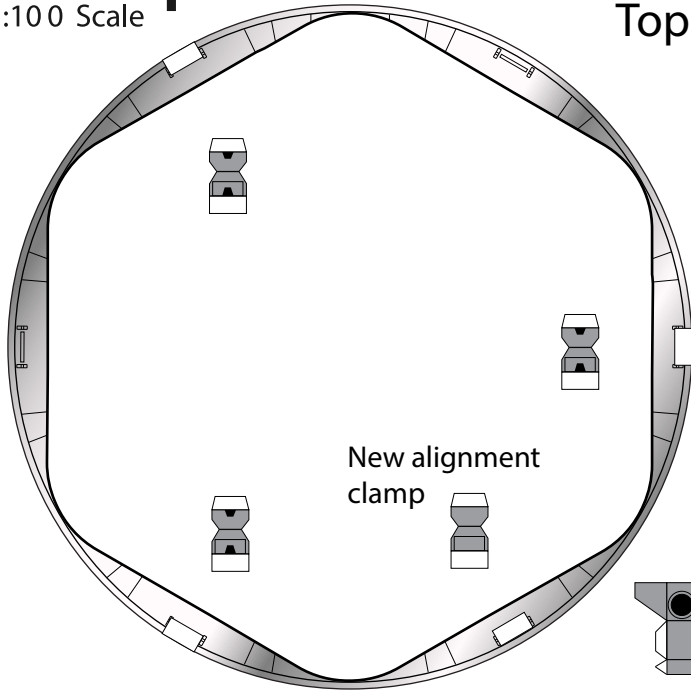
1 inch

1:100 Scale

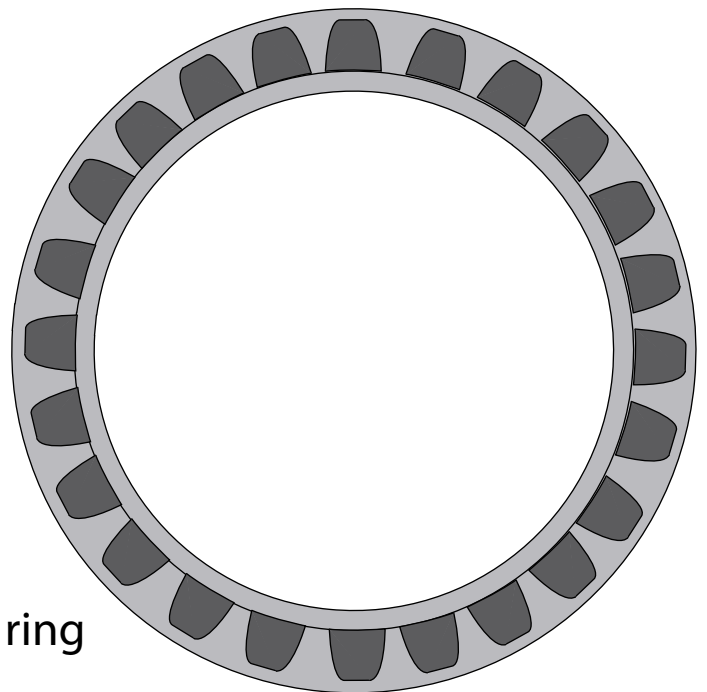
# Hot staging Ring

Print on Cardstock ( 110 lbs)

## Top ring



## Bottom ring



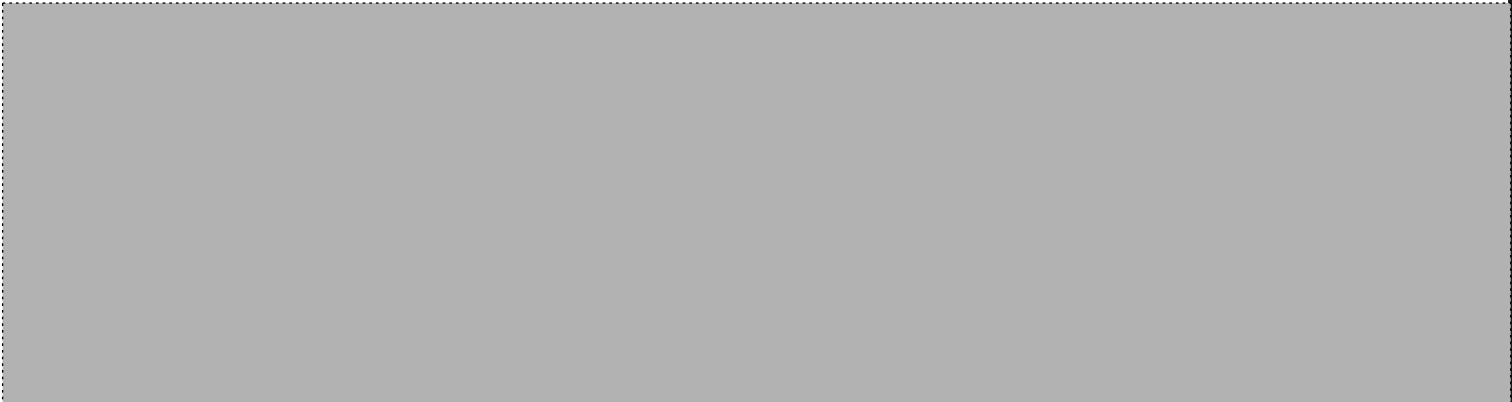


1:100 Scale

# Hot staging Ring

Print on Cardstock ( 110 lbs)

## Back Print





1 cm

1 inch

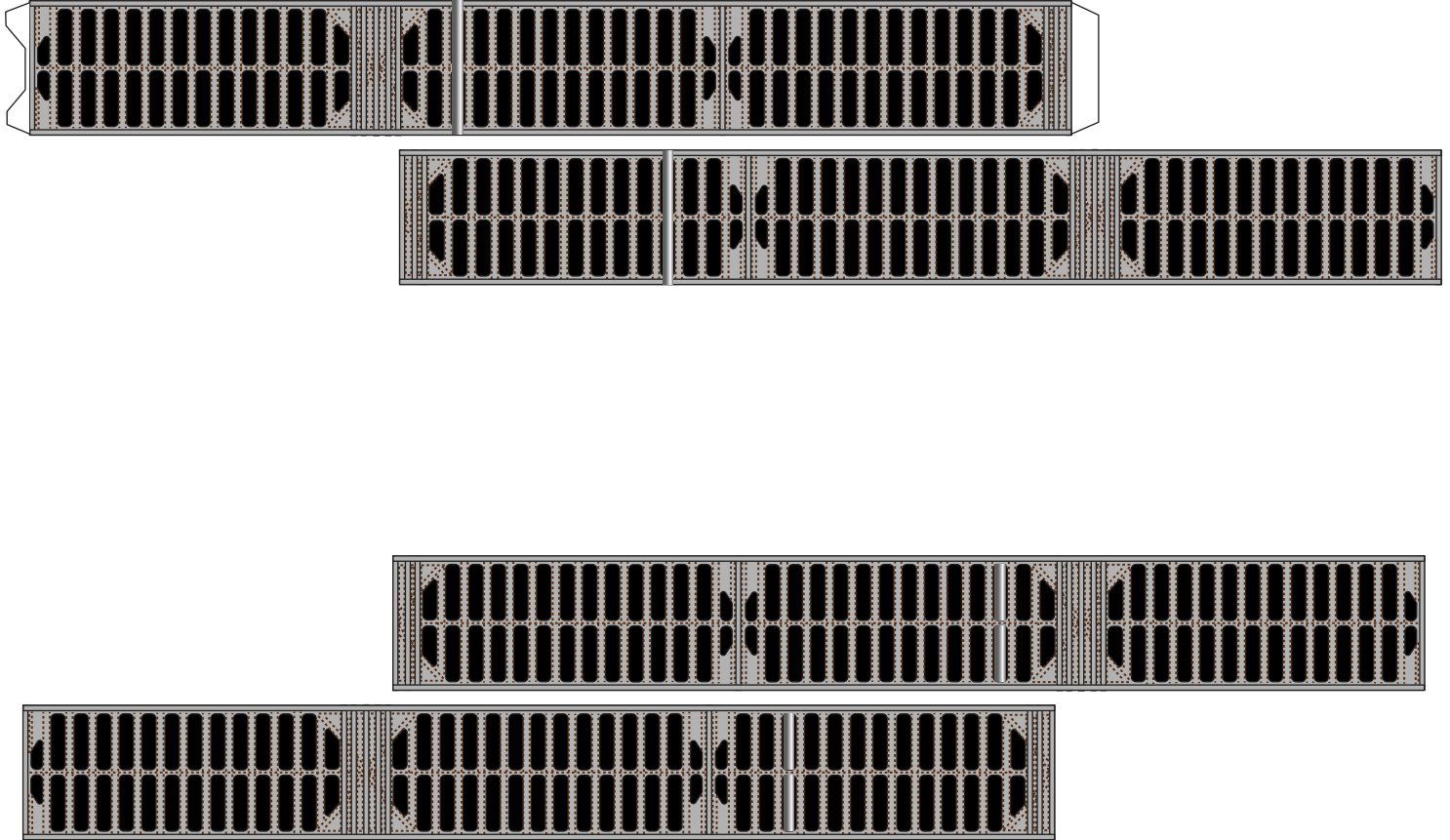
1:100 Scale

# Hot staging Ring

Print on Cardstock ( 110 lbs)

## Simple version

### Exterior skin



### Interior skin



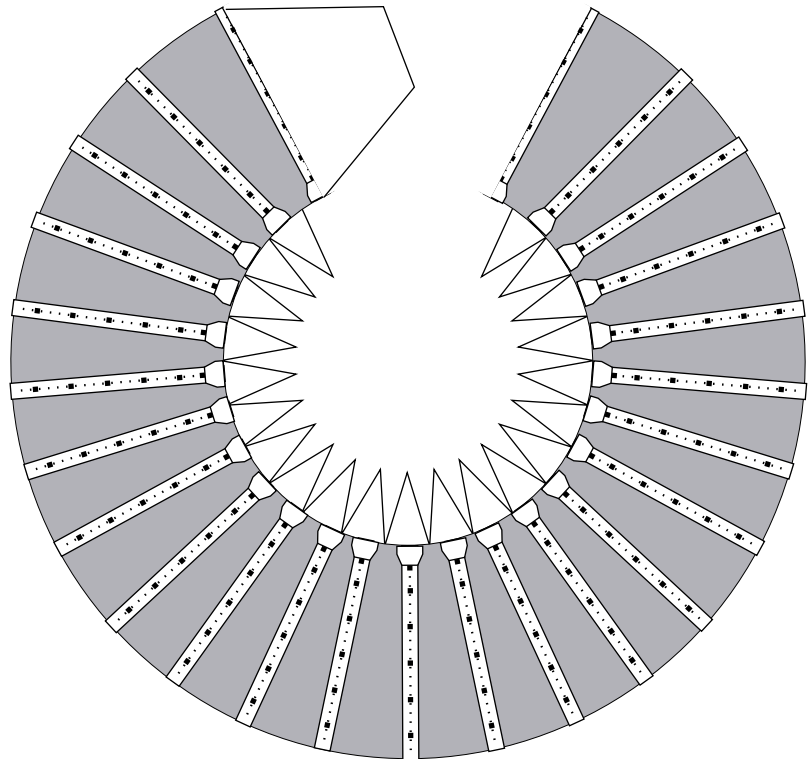
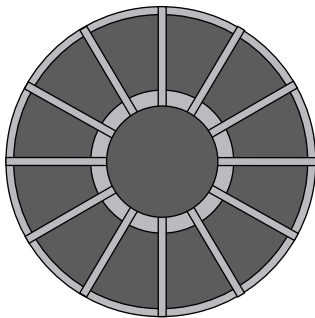
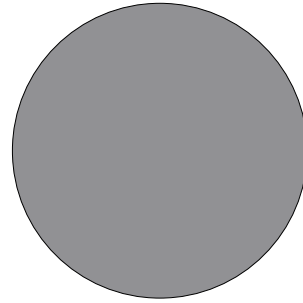
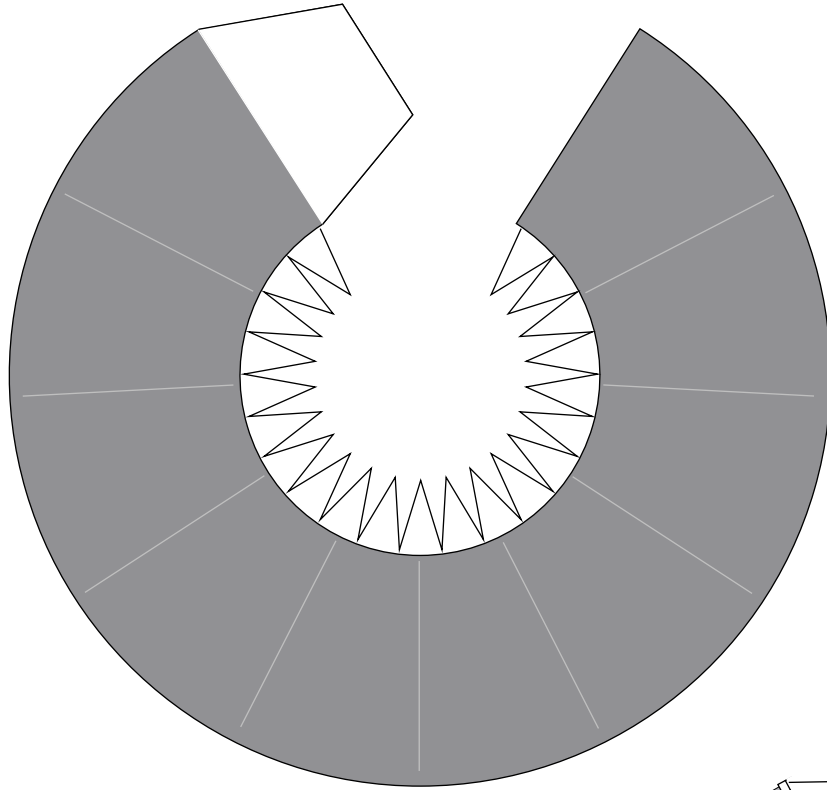
1 cm

1 inch

1:100 Scale

# Hot staging Ring Dome

Print on Cardstock ( 110 lbs)



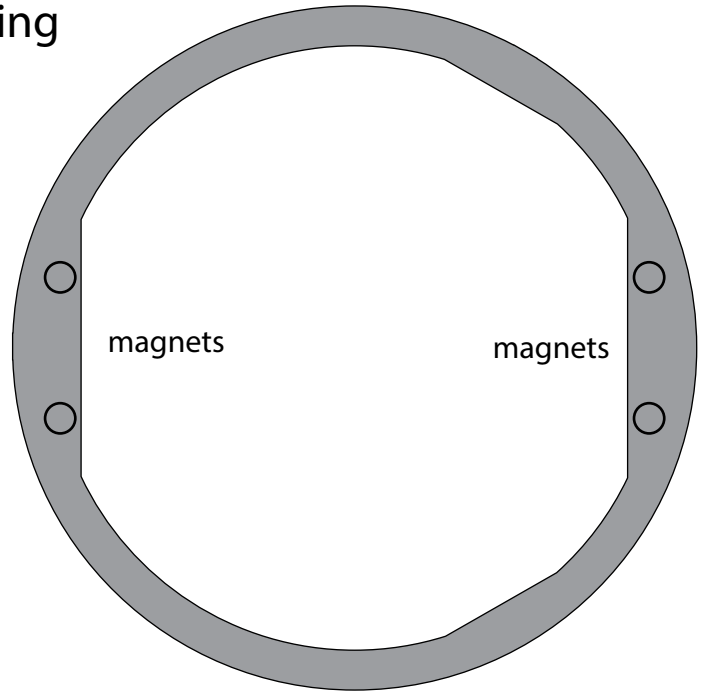
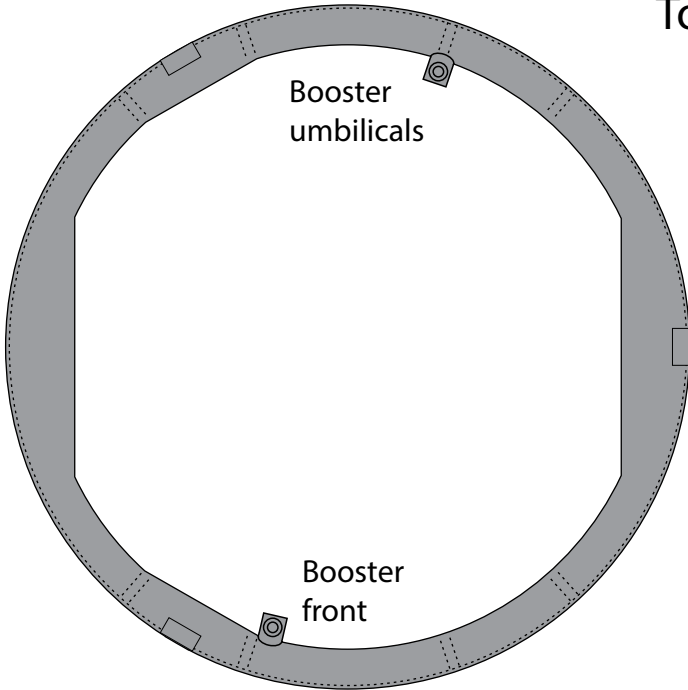


# SpaceX SuperHeavy

Print on Cardstock ( 110 lbs)

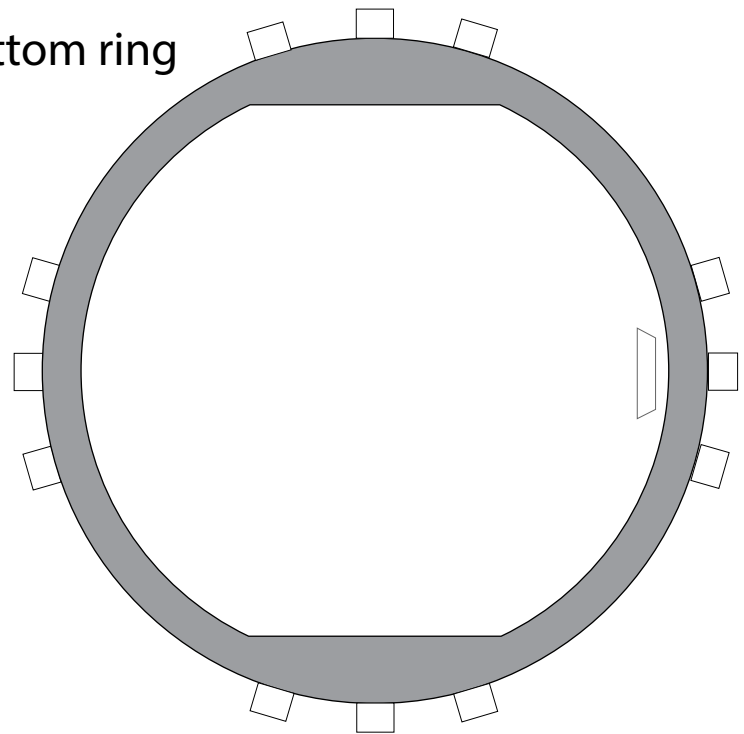
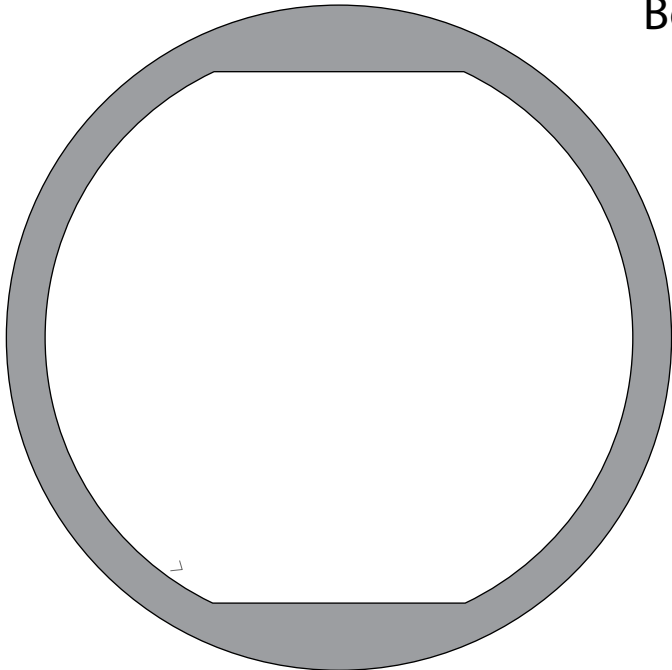
1:100 Scale

## Top ring



right side

## Bottom ring





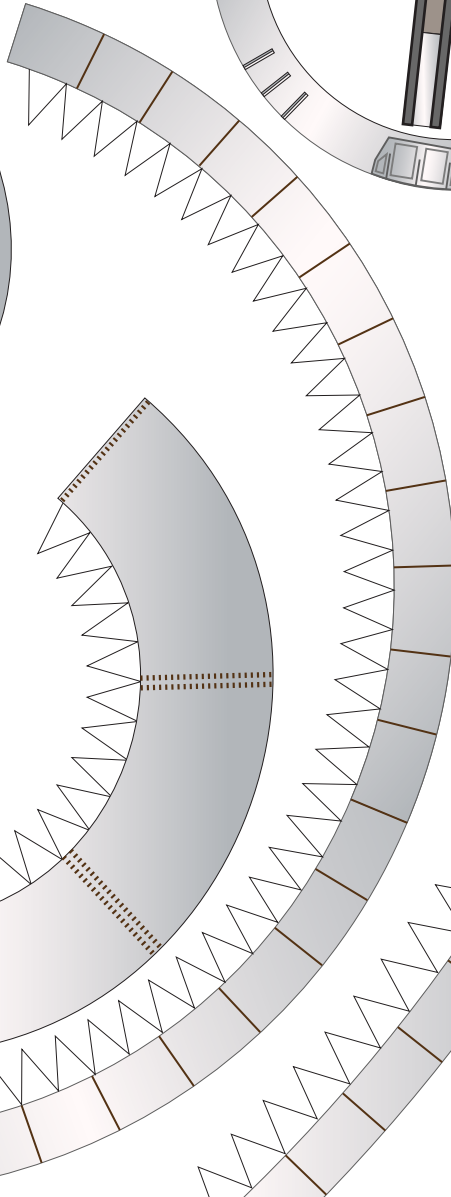
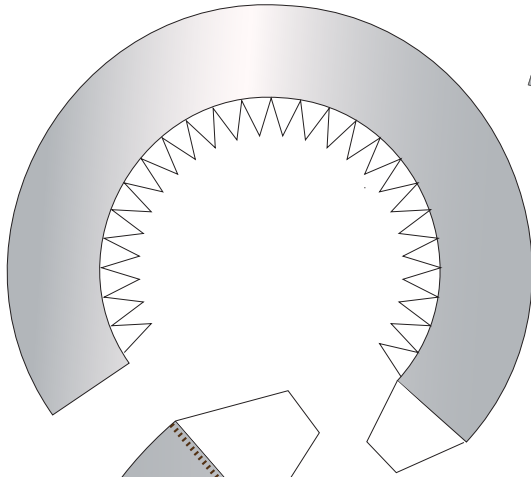
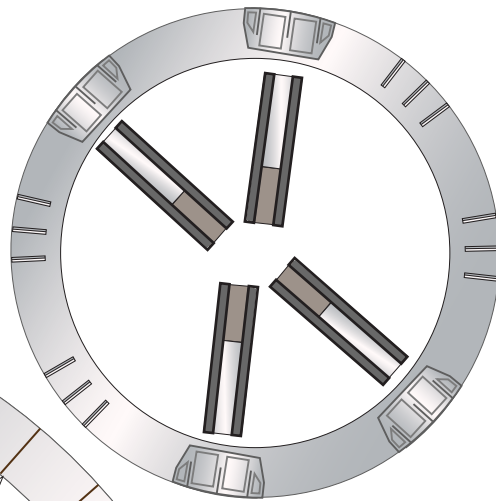
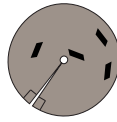
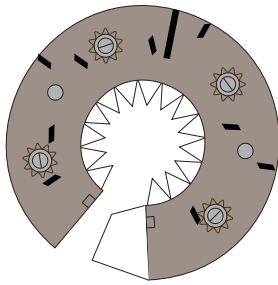
1 cm

1 inch

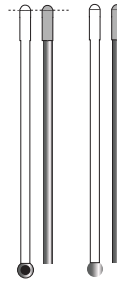
1:100 Scale

# SuperHeavy B13 Upper Dome

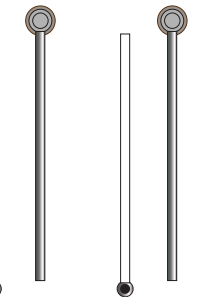
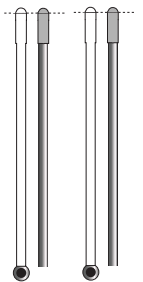
Print on Cardstock (110 lbs)



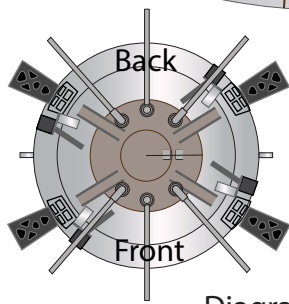
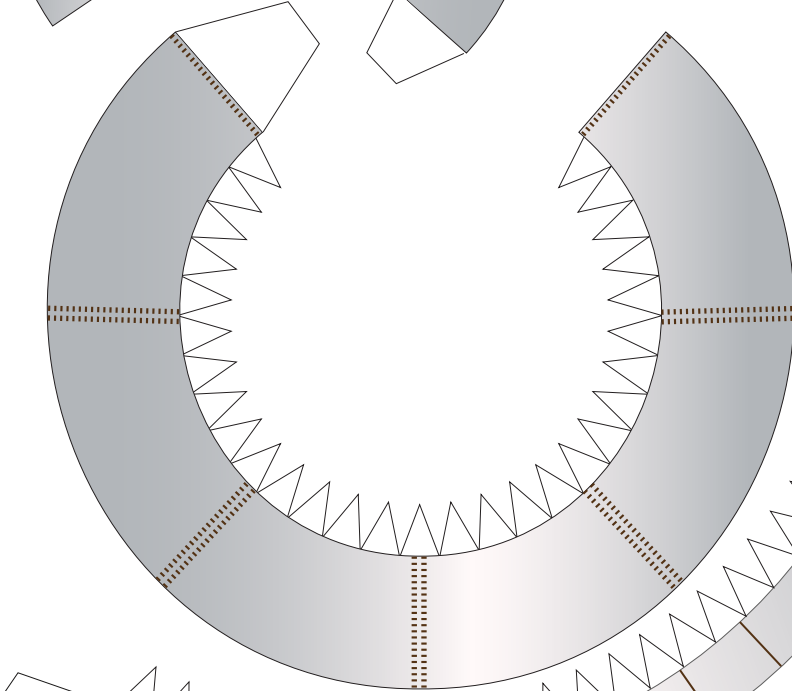
Ch4 vent pipes



Ch4 vent pipes

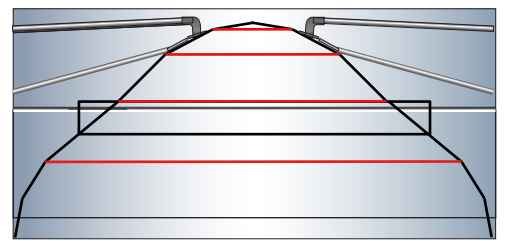


Ch4 press lines



Diagram

Diagram





1 cm

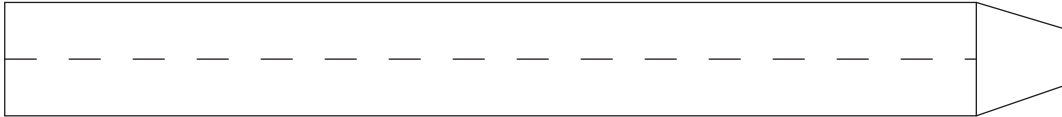
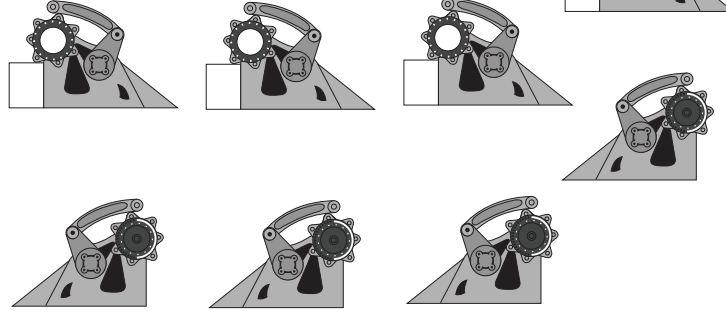
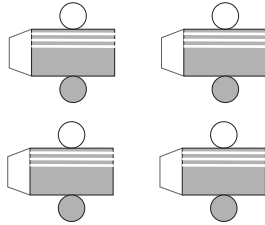
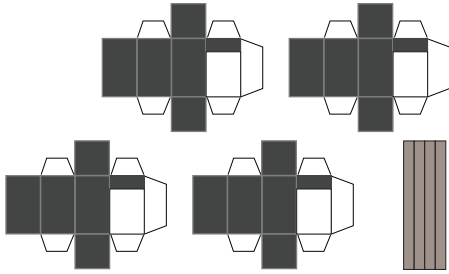
1 inch

1:100 Scale

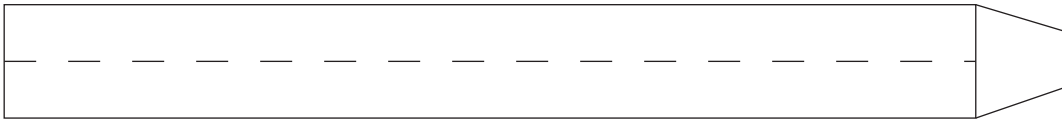
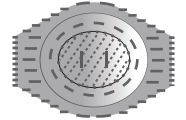
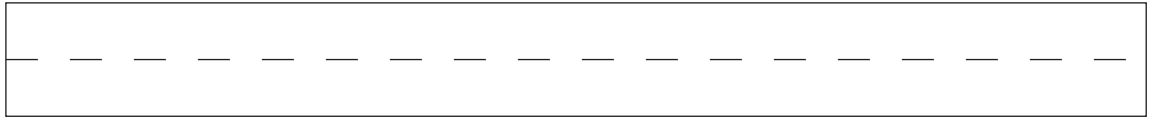
# SpaceX Starship B13

Print on Cardstock (110 lbs)

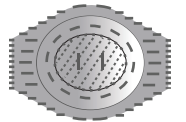
## Grid Fins servo motors and Connectors



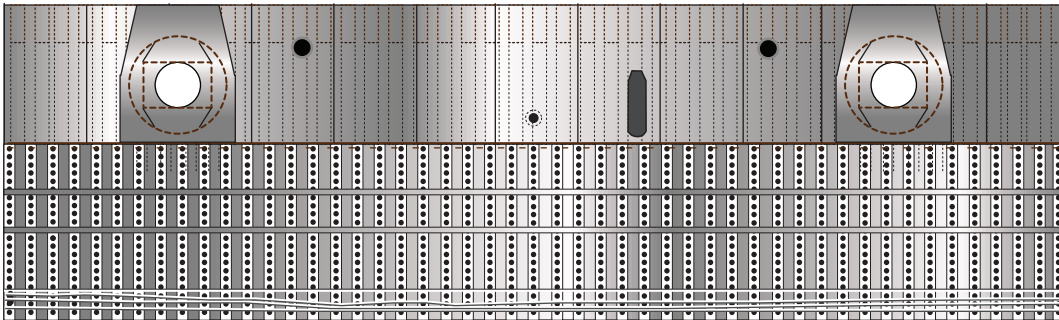
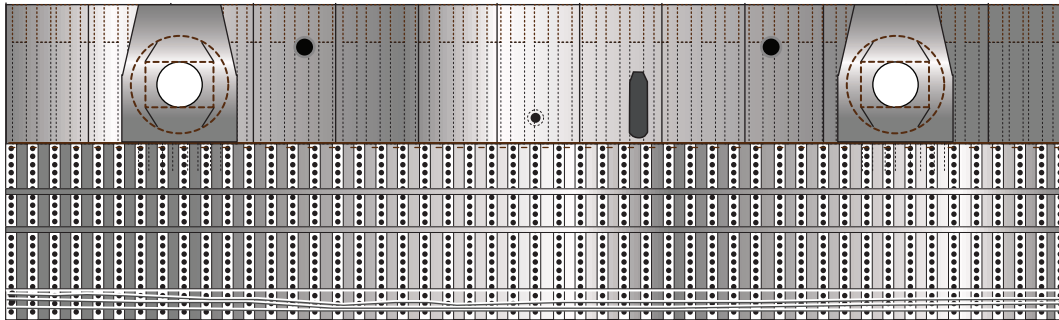
top/middle



middle/bottom



Glue tip of the  
Ch4 press line to  
cover the black circles



Interior wall  
for upper dome  
section





1 cm

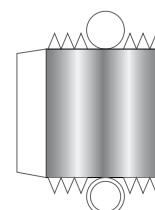
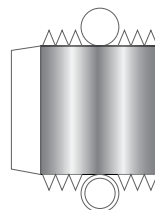
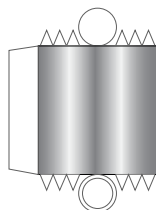
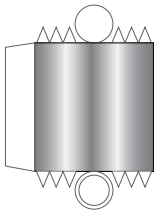
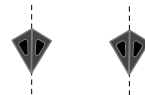
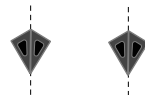
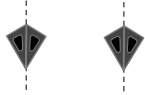
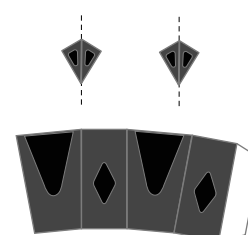
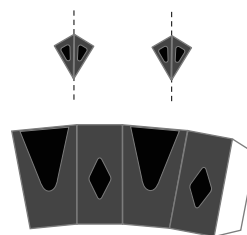
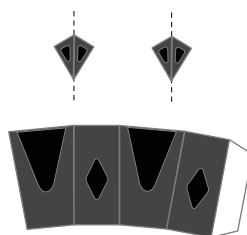
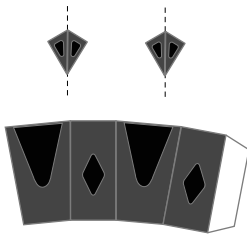
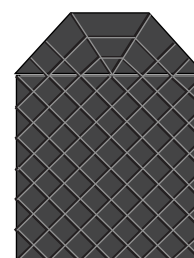
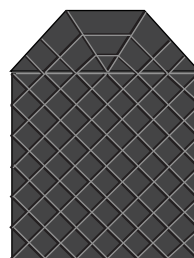
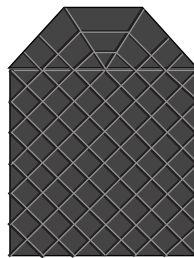
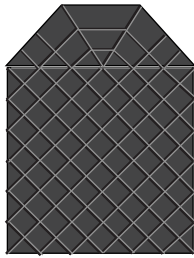
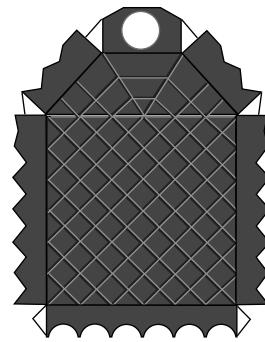
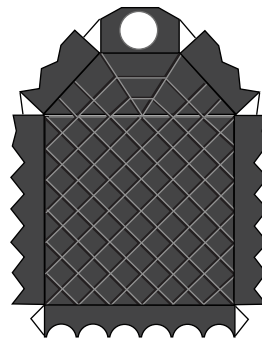
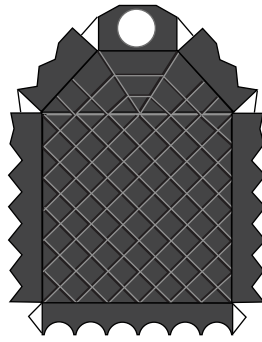
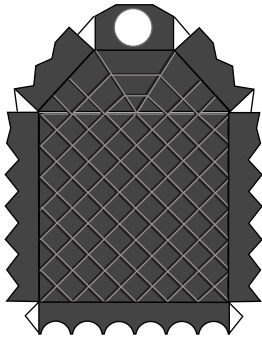
1 inch

1:100 Scale

# SuperHeavy **B13** Grid Fins

Print on Cardstock ( 110 lbs)

## Simple version





# B13 Grid Fins

Print on Cardstock ( 110 lbs)

## Back Print

1:100 Scale





1 cm

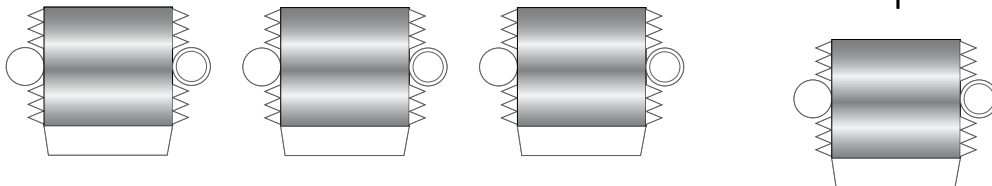
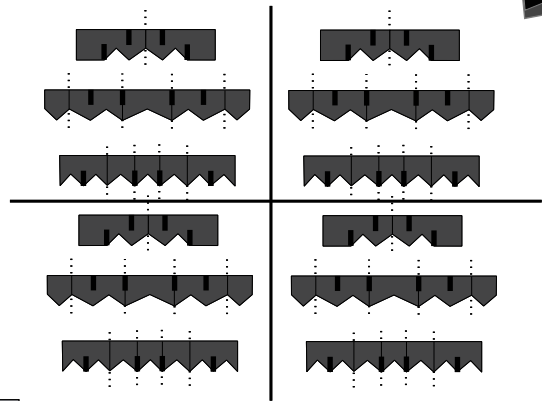
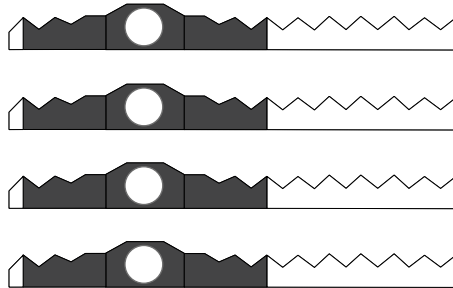
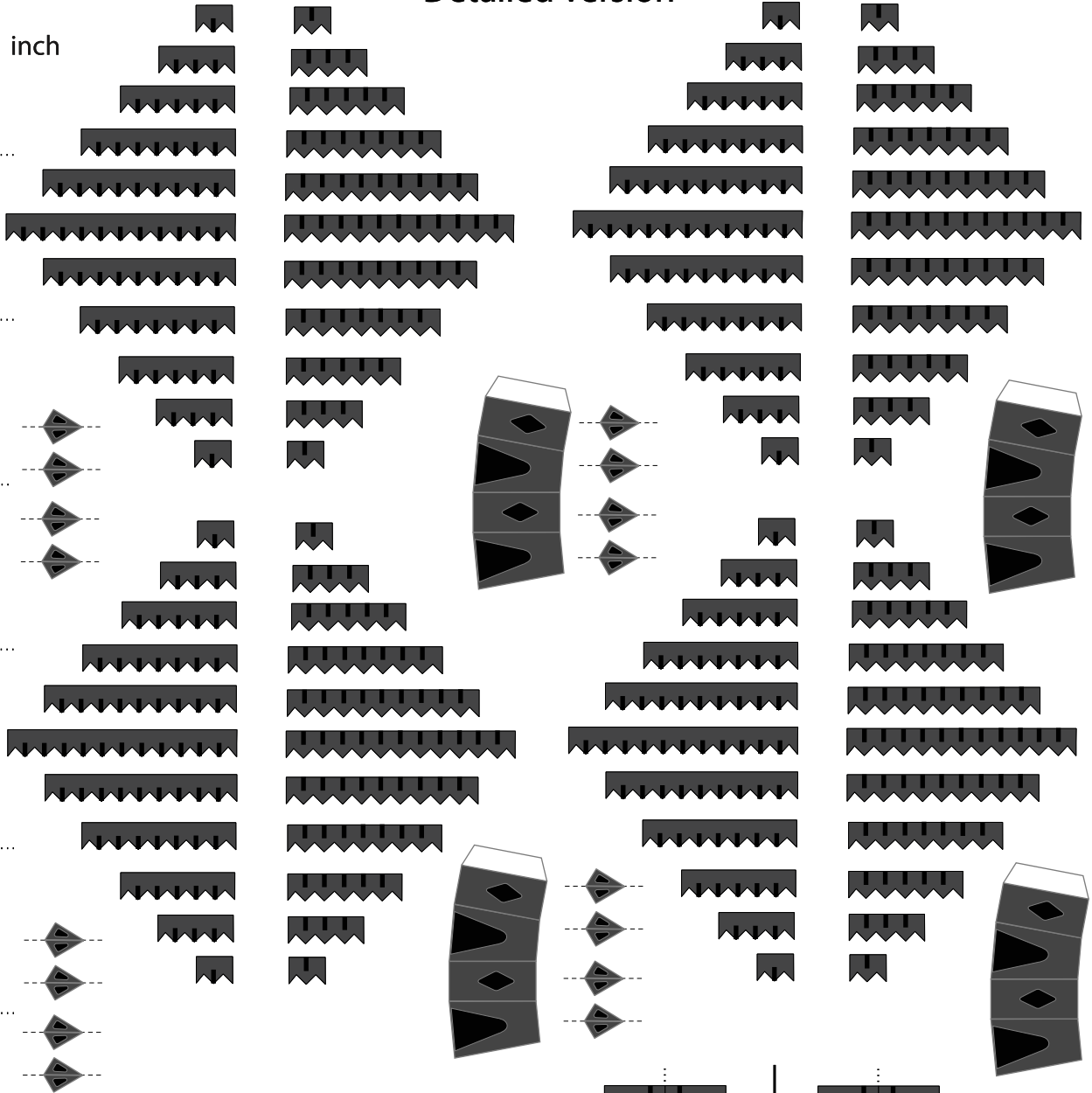
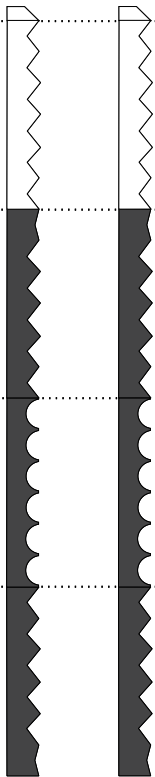
1 inch

1:100 Scale

# SuperHeavy B13 Grid Fins

Print on Cardstock ( 110 lbs)

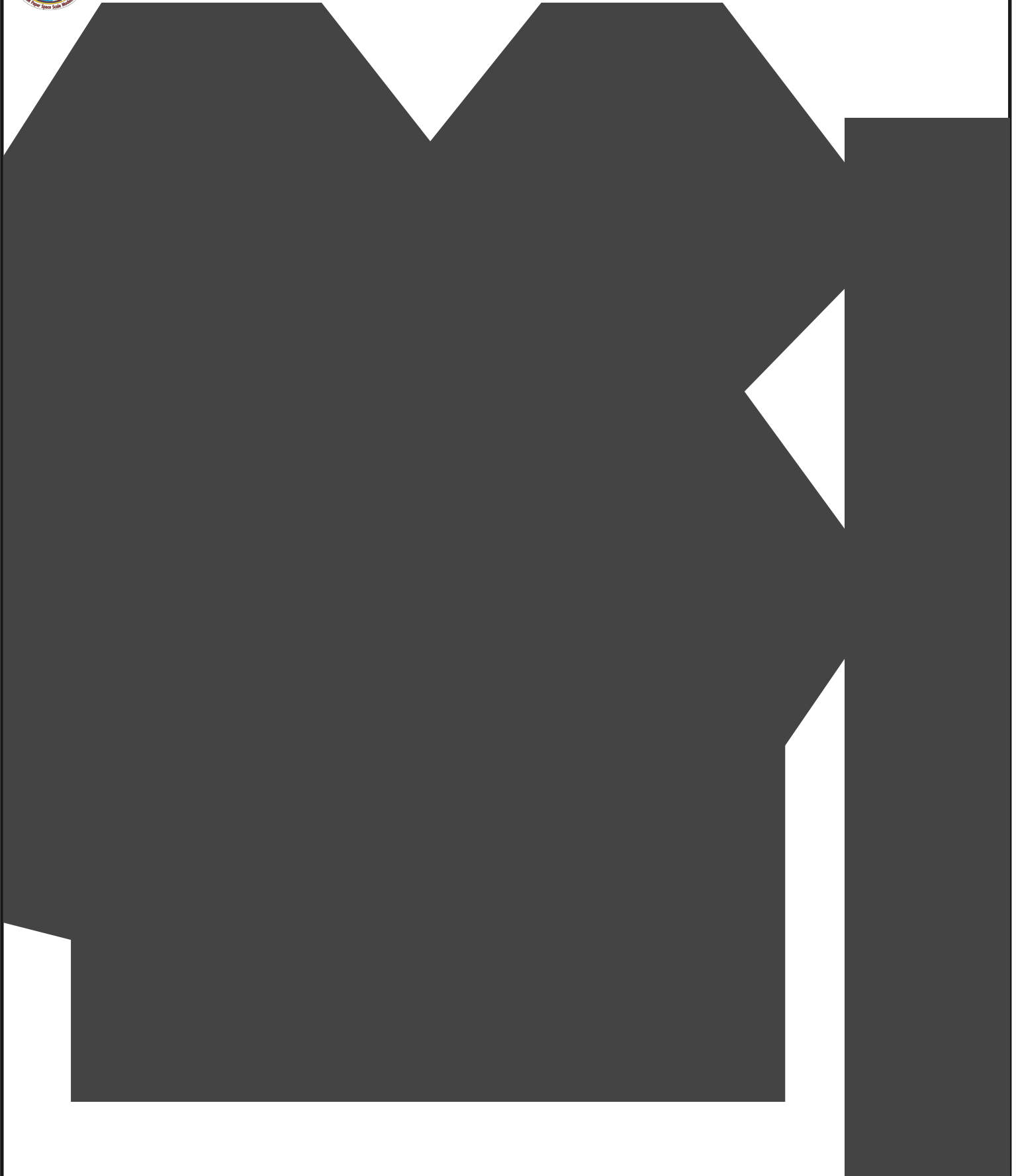
## Detailed version





# **B13** Grid Fins back print

Print on Cardstock ( 110 lbs)





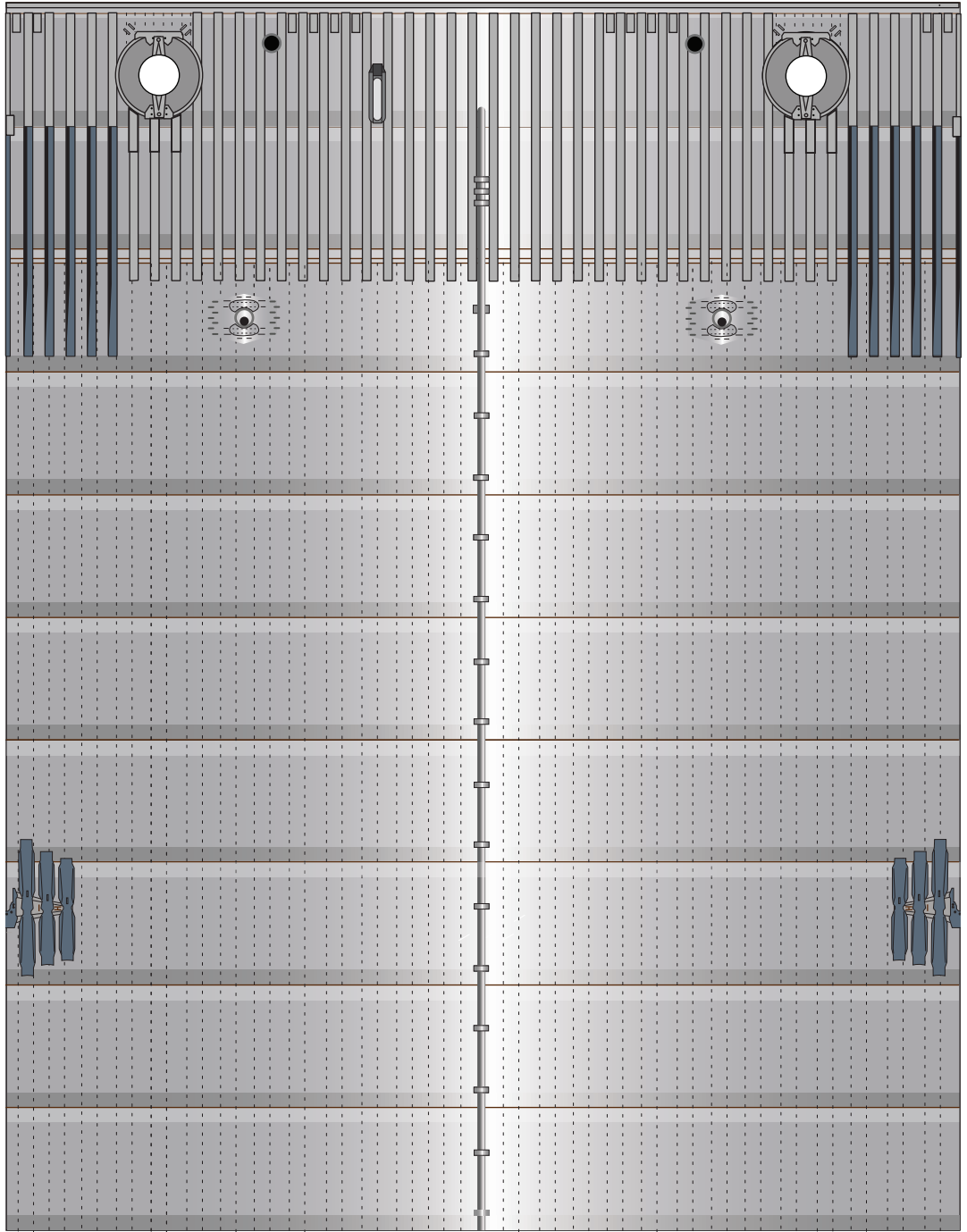
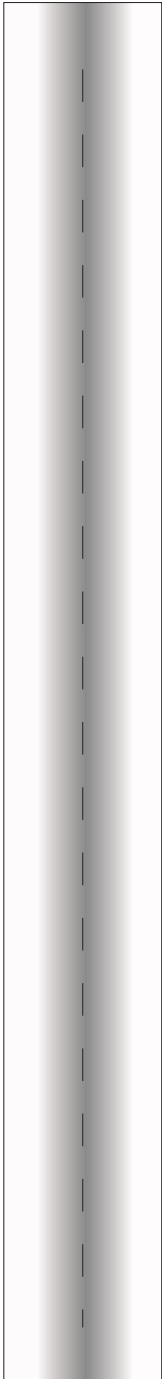
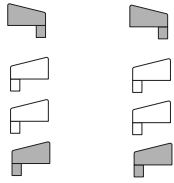
1:100 Scale



# Booster 13

Print on Cardstock (110 lbs)

Belly side top





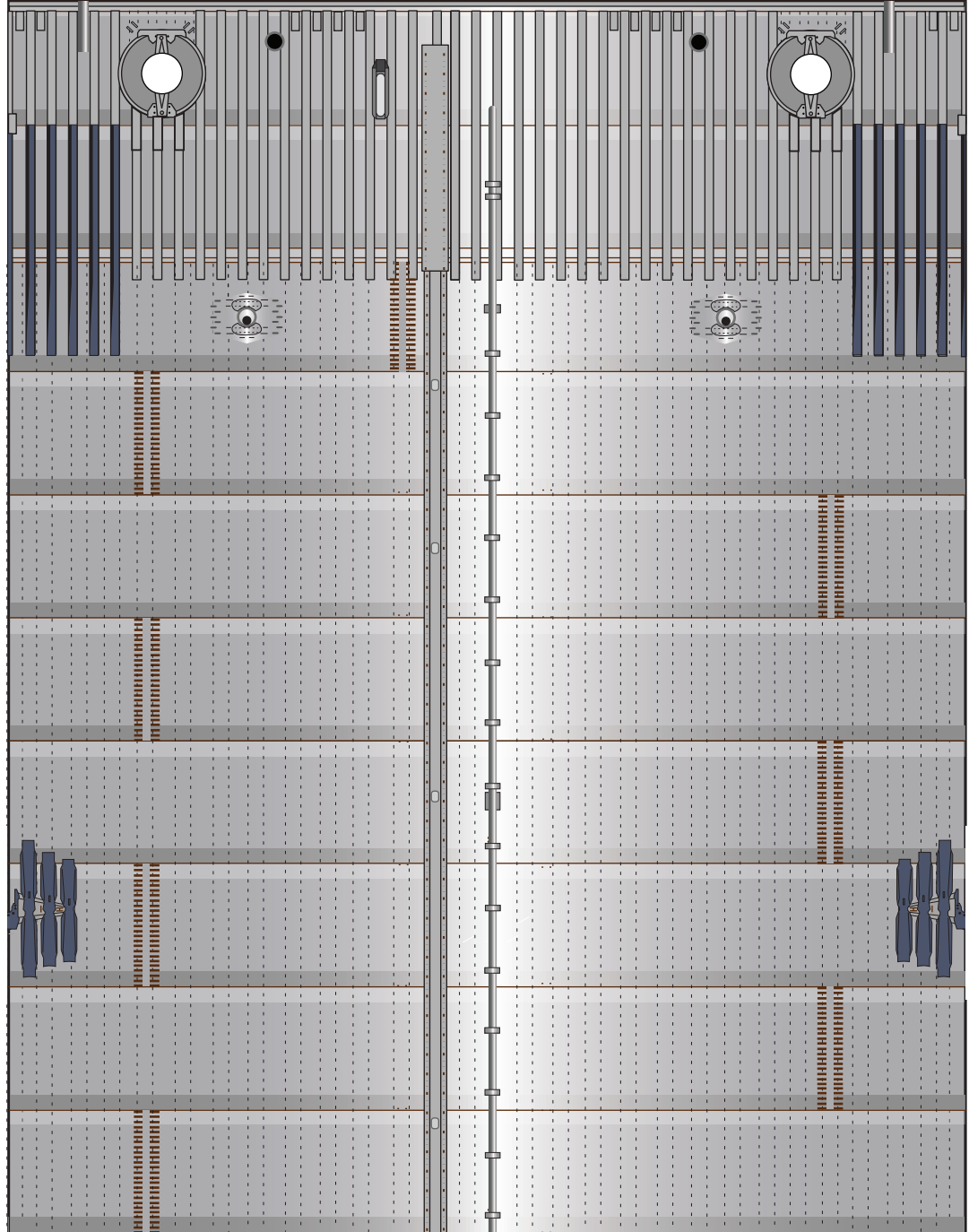
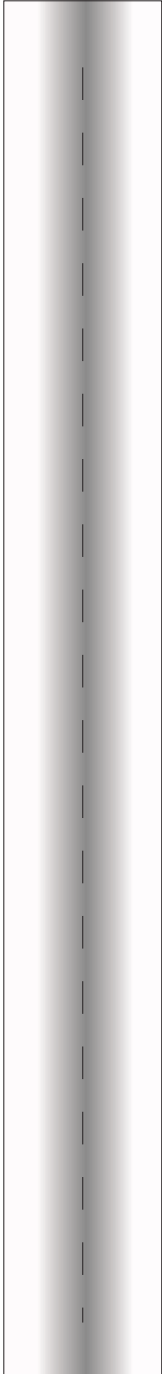
1:100 Scale



# Booster 13

Print on Cardstock (110 lbs)

Back side top

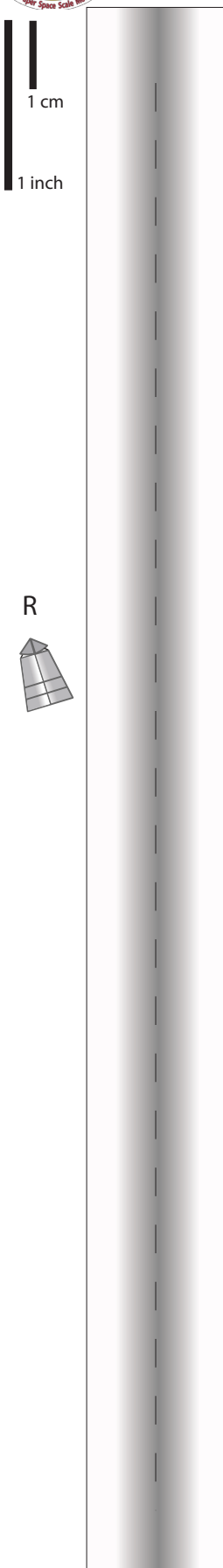




1:100 Scale

# Booster 13

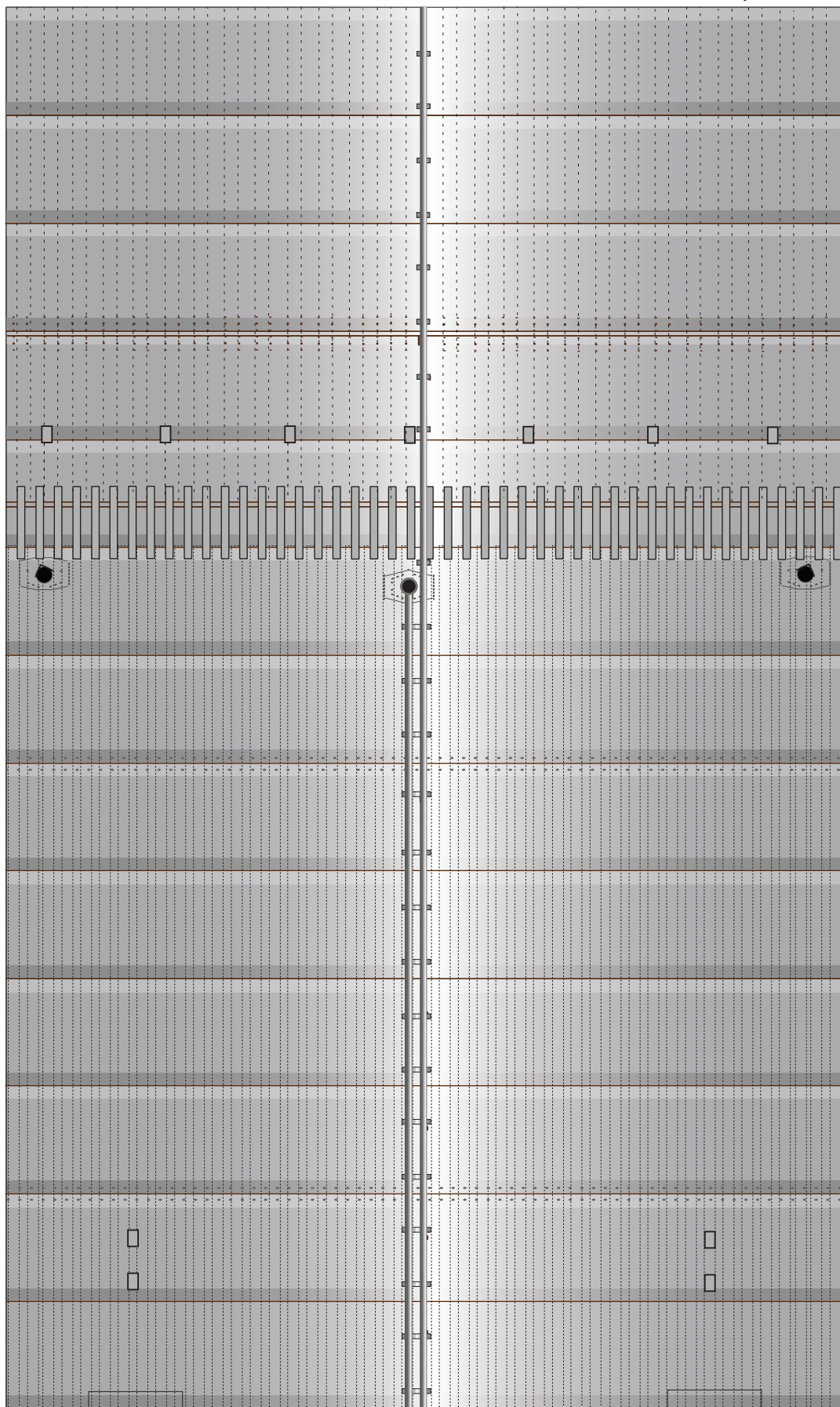
Print on Cardstock (110 lbs)  
Belly side middle



1 cm

1 inch

R



L





1:100 Scale

# Booster 13

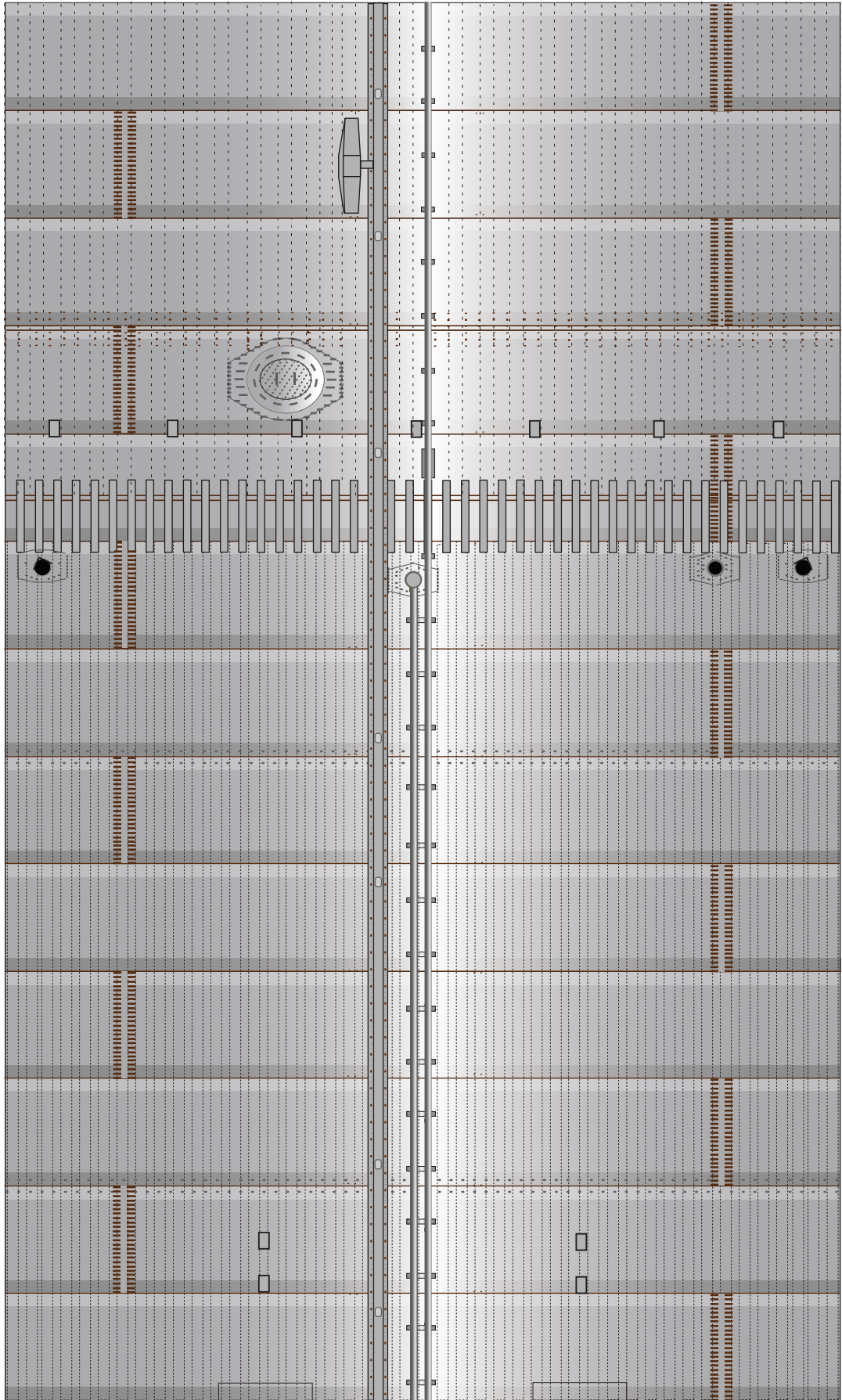
Print on Cardstock (110 lbs)  
Back side middle



R



L





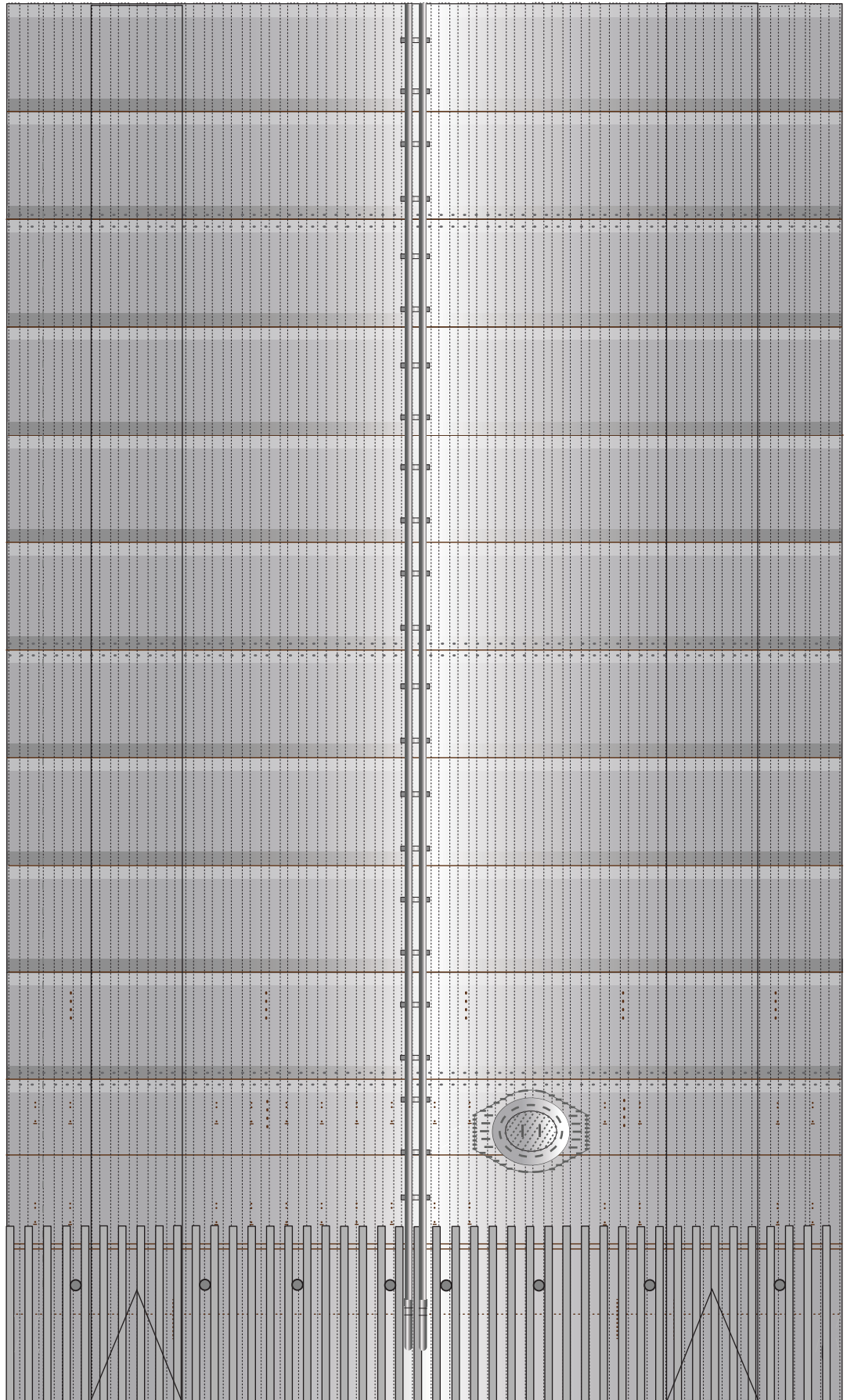
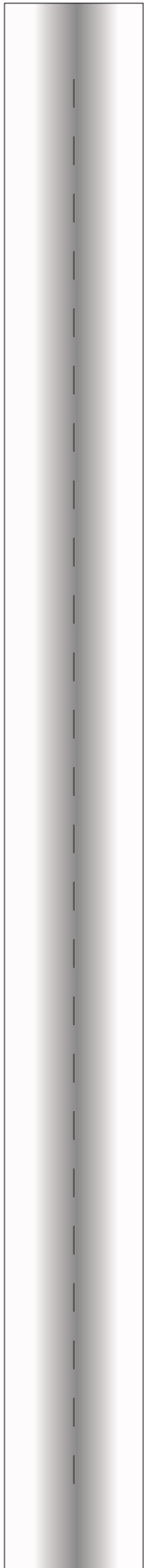


1:100 Scale

# Booster 13

Print on Cardstock (110 lbs)

Belly side bottom

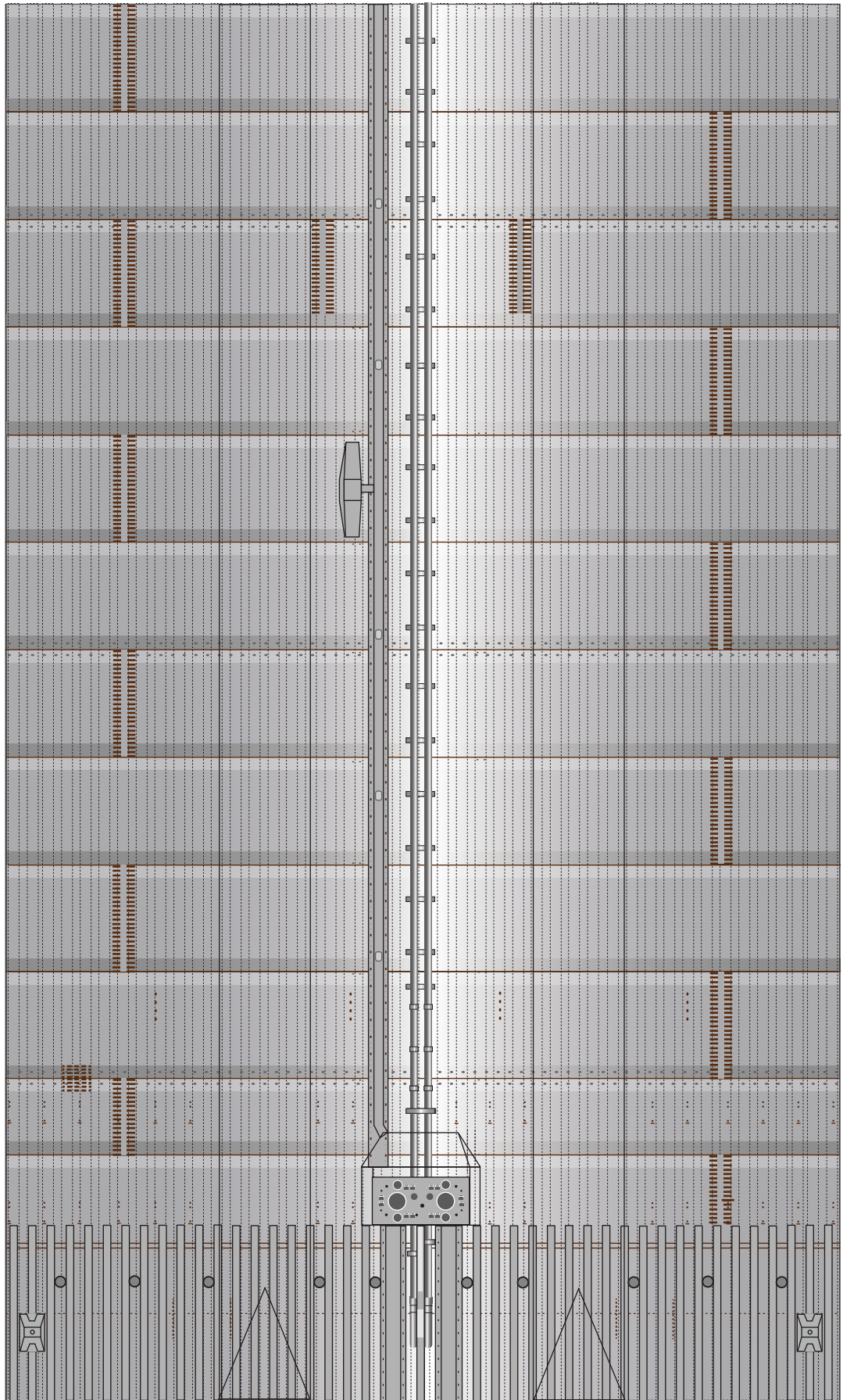
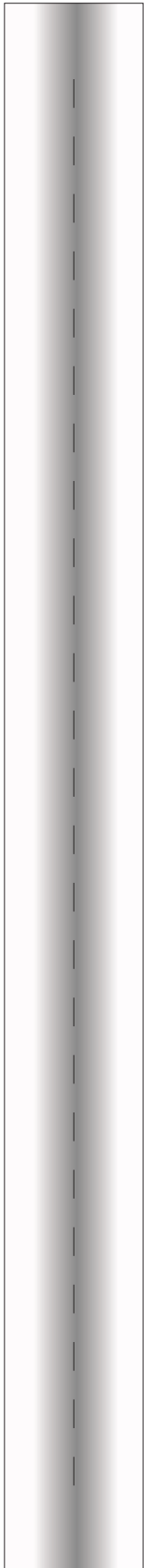




1:100 Scale

# Booster 13

Print on Cardstock (110 lbs)  
Back side bottom



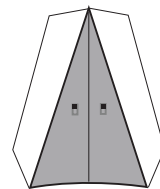
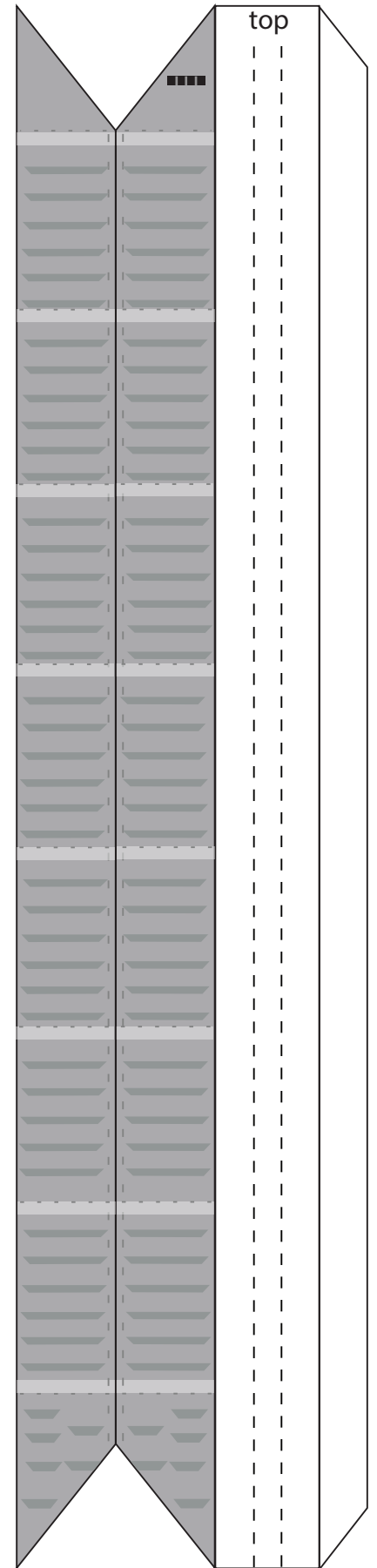
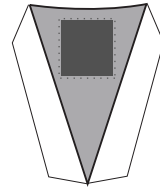
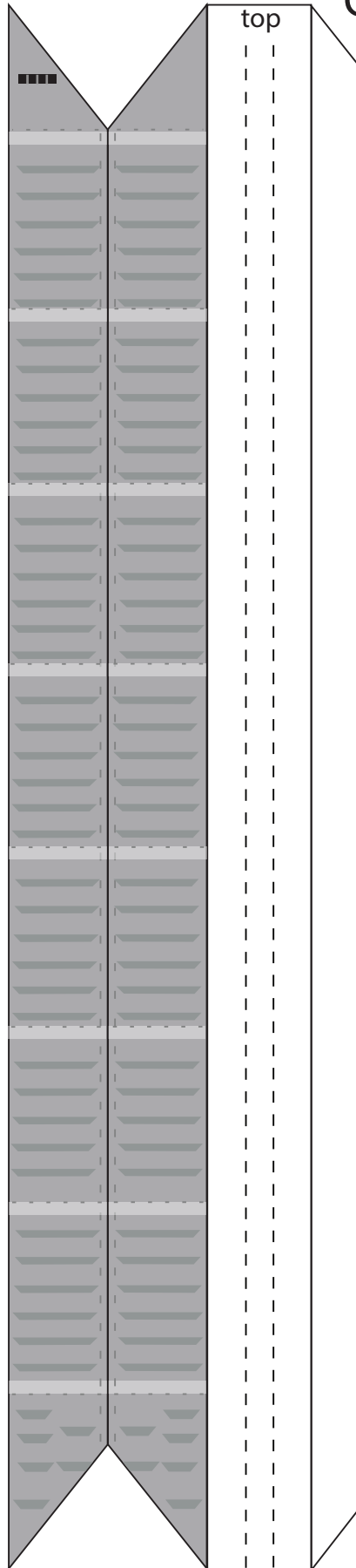
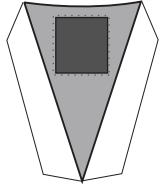


1:100 Scale



# COPV covers

FRONT



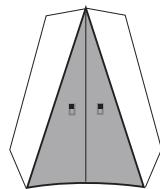
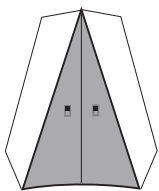
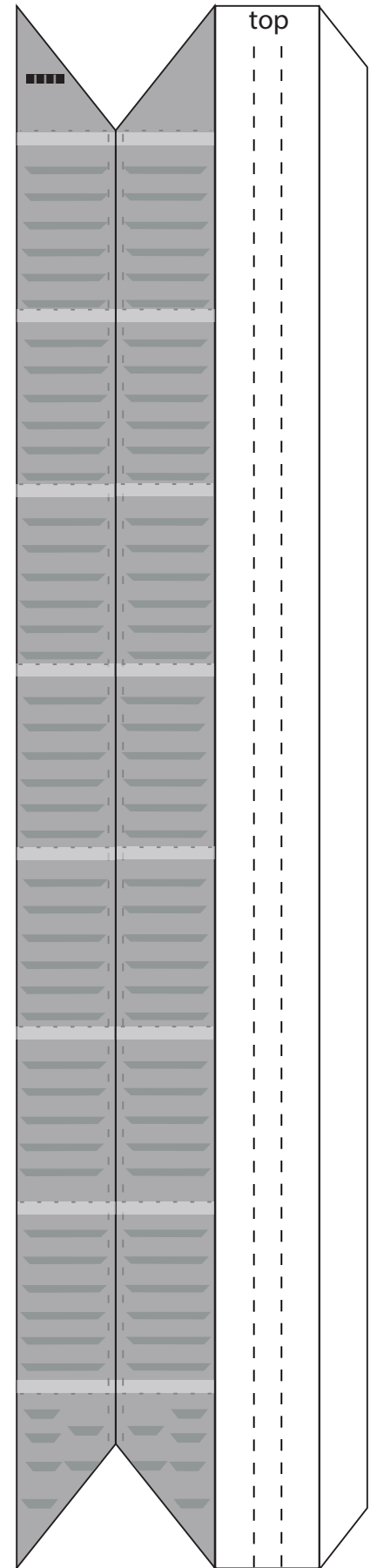
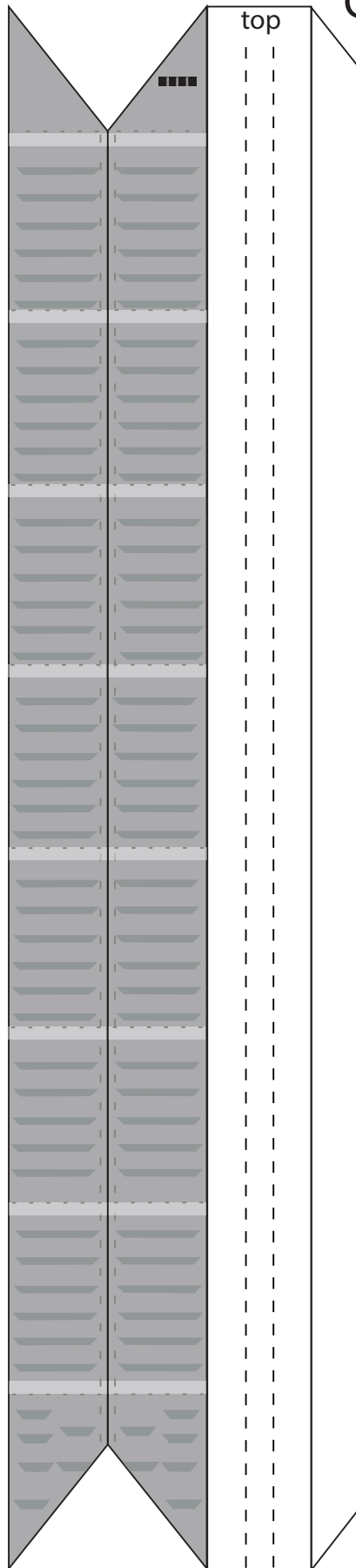
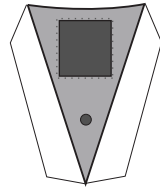
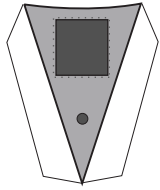


1:100 Scale



# COPV covers

Umbilical side





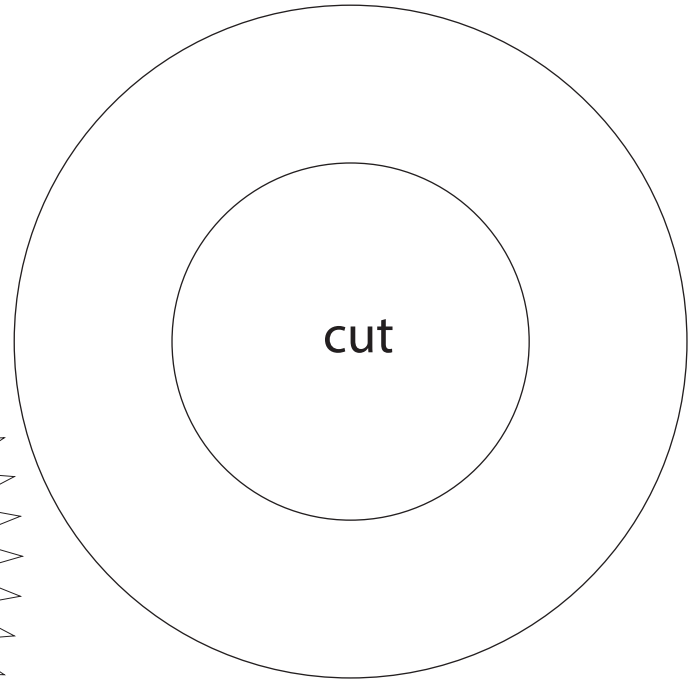
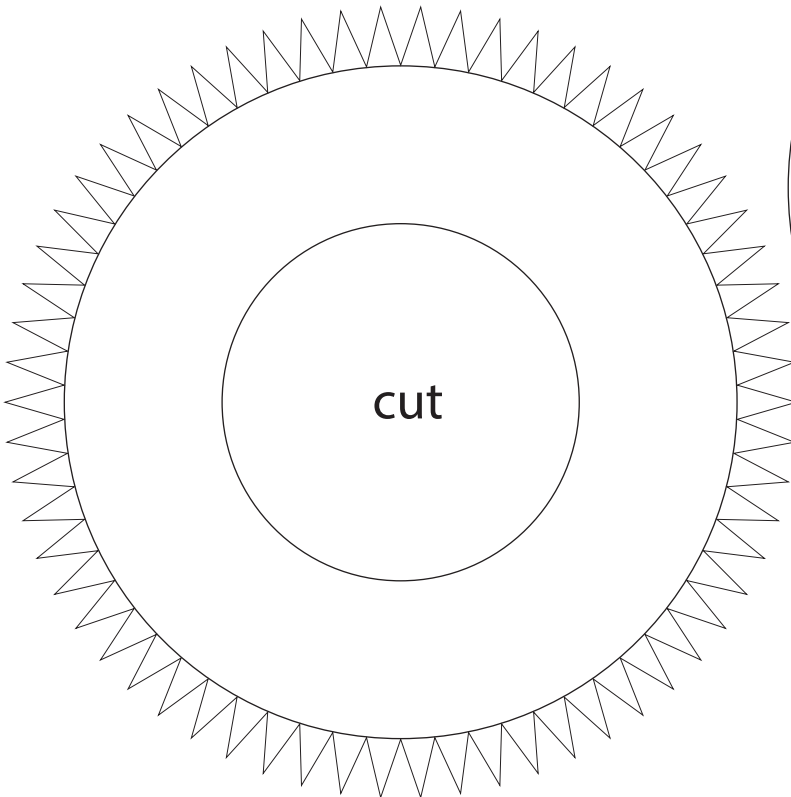
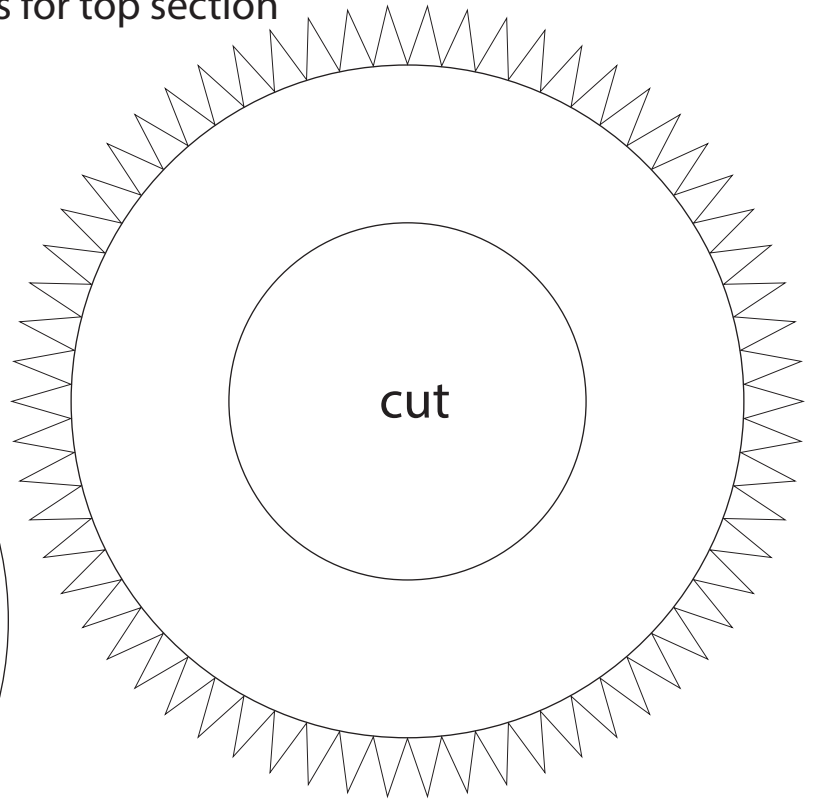
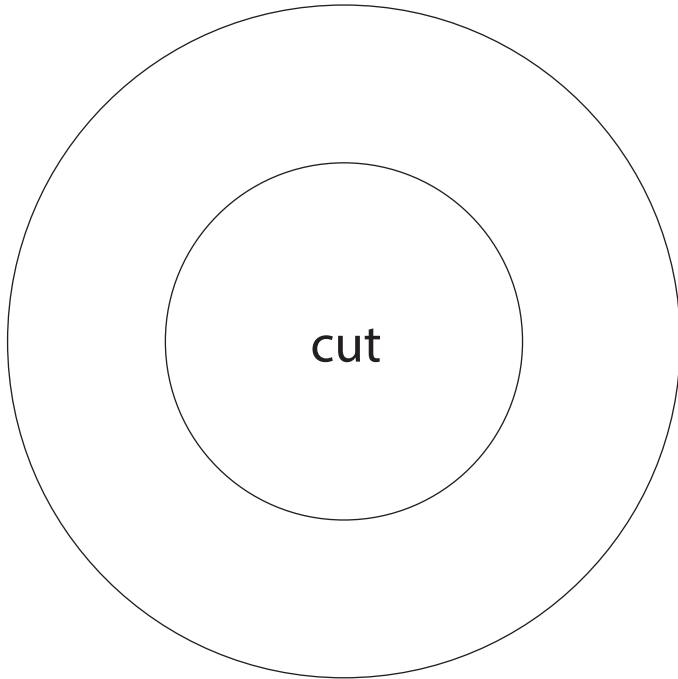
1:100 Scale



# SpaceX Starship **B13**

Print on Cardstock (110 lbs)

## Formers for top section



### IMPORTANT

Top former is glued 42 mm from top edge of top booster section.  
Bottom former is glued 20 mm from bottom edge of top booster section.



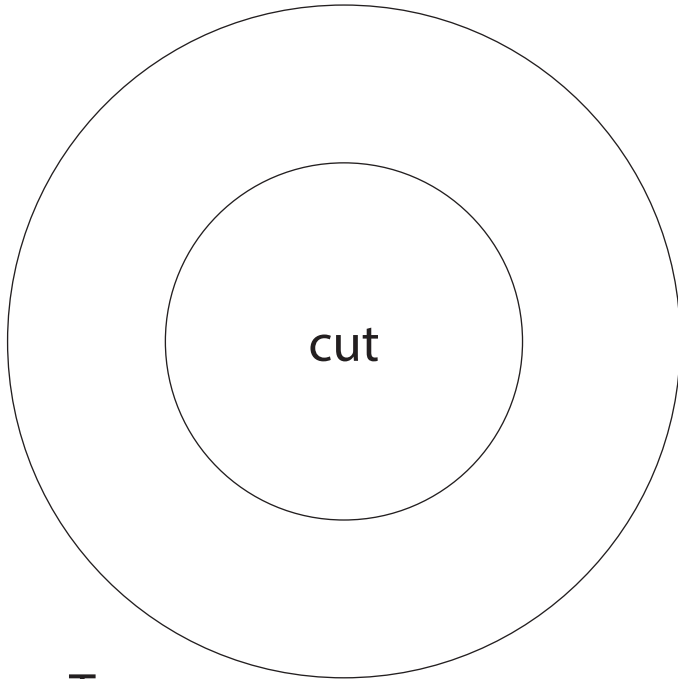
1:100 Scale



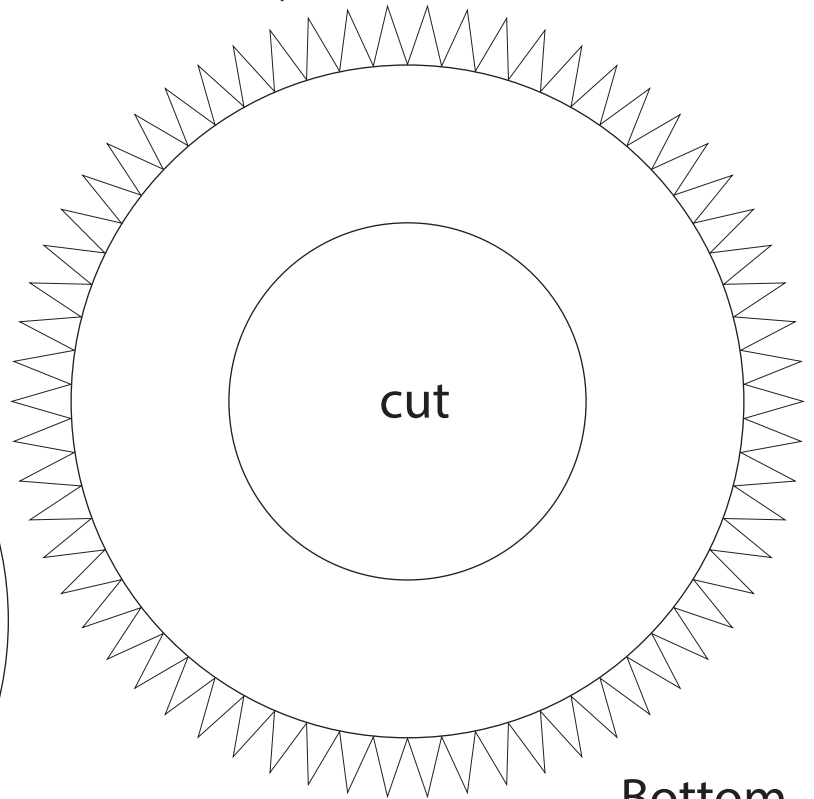
# SpaceX Starship **B13**

Print on Cardstock (110 lbs)

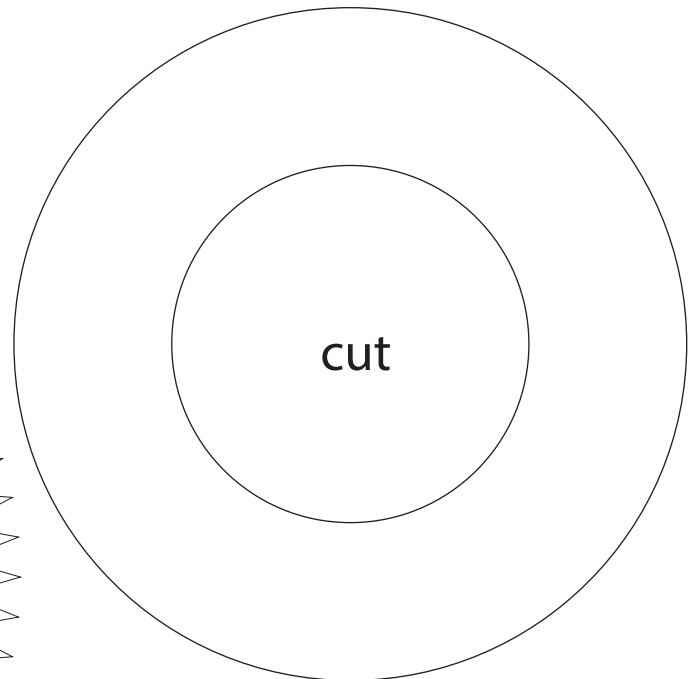
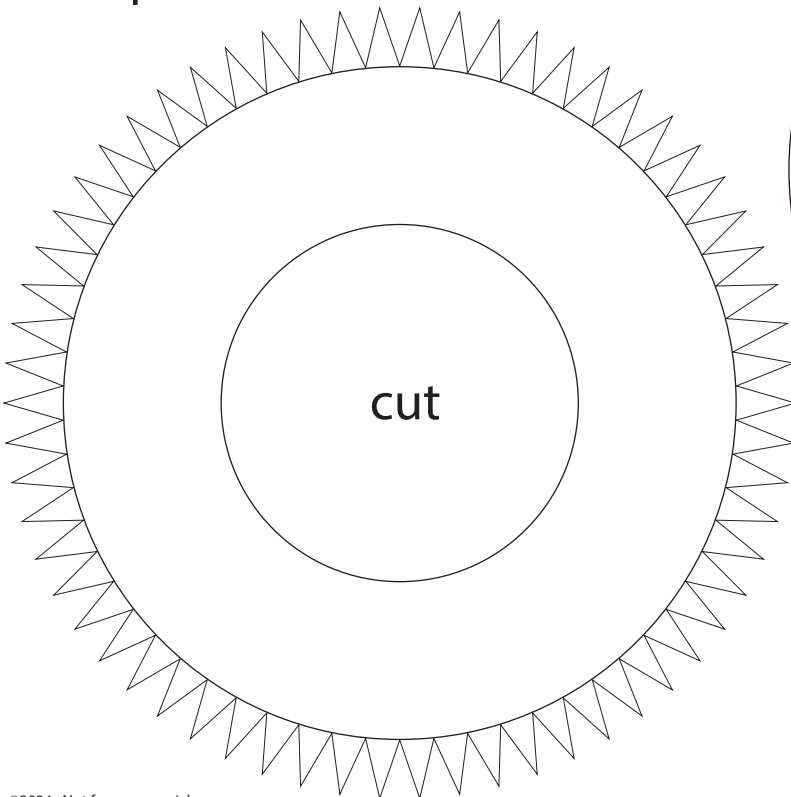
## Formers for middle body



Top



Bottom

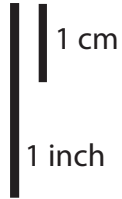


### IMPORTANT

Top former is glued 20 mm from top edge of middle booster section. Bottom former is glued 20 mm from bottom edge of middle booster section.



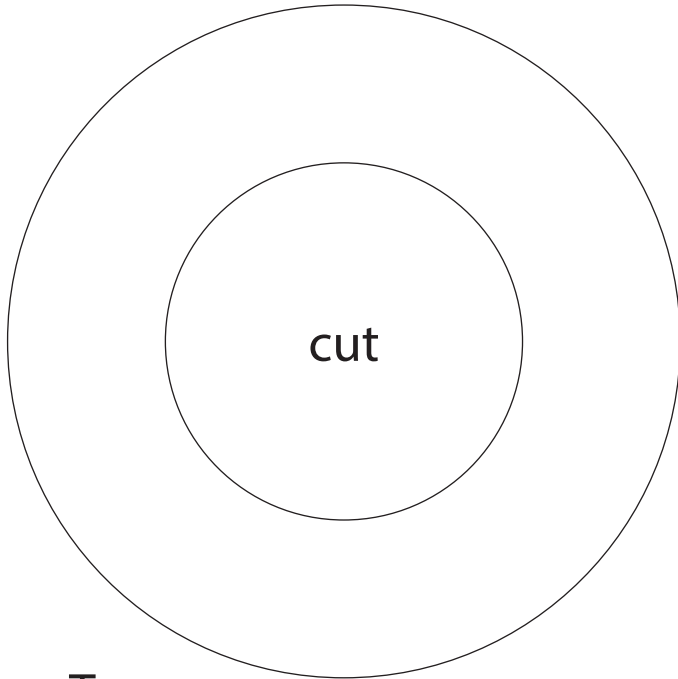
1:100 Scale



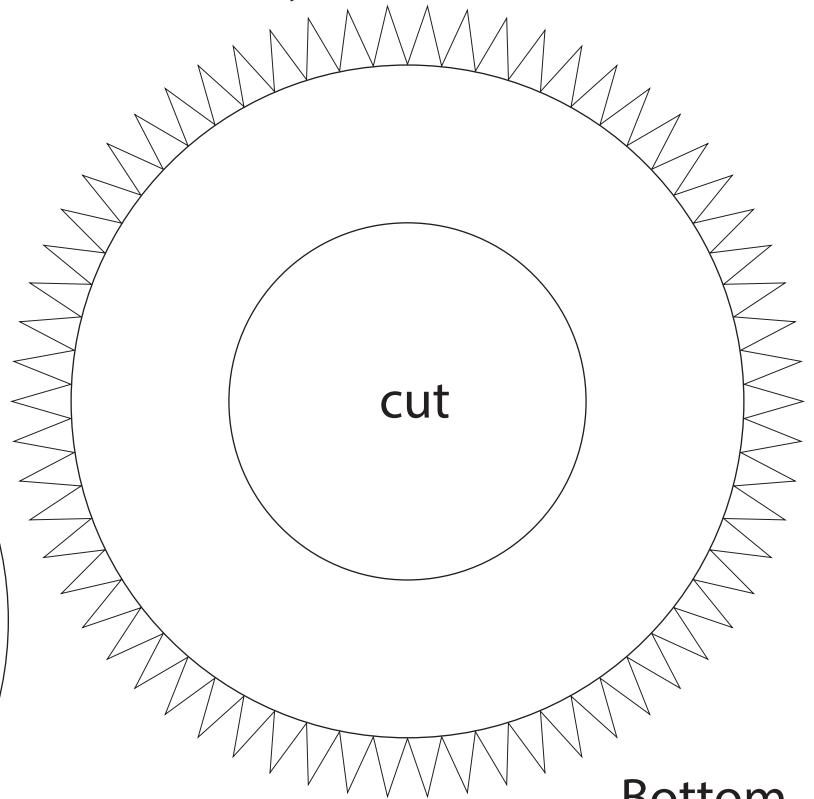
# SpaceX Starship **B13**

Print on Cardstock (110 lbs)

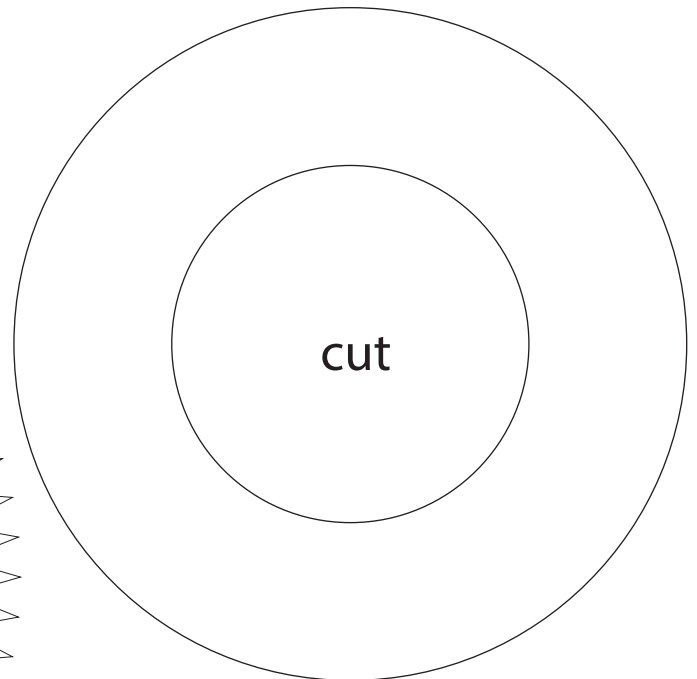
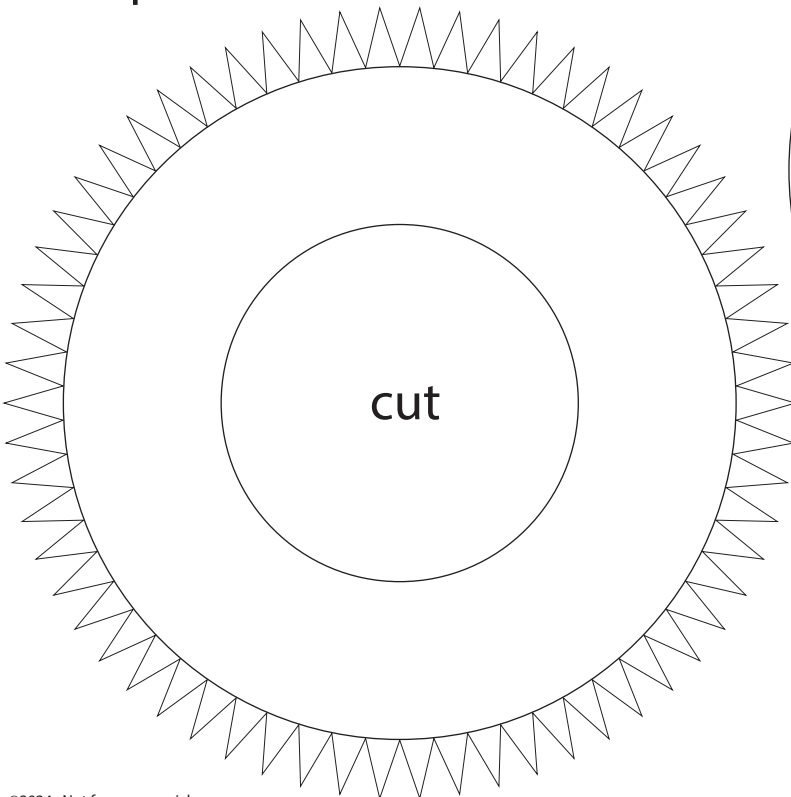
## Formers for bottom body



Top



Bottom



### IMPORTANT

Top former is glued 20 mm from top edge of bottom booster section. Bottom former is glued 19 mm from bottom edge of bottom booster section.



1 cm

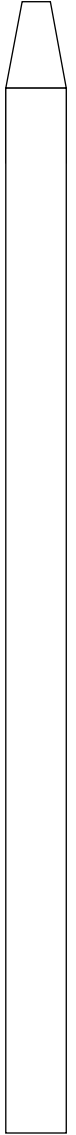
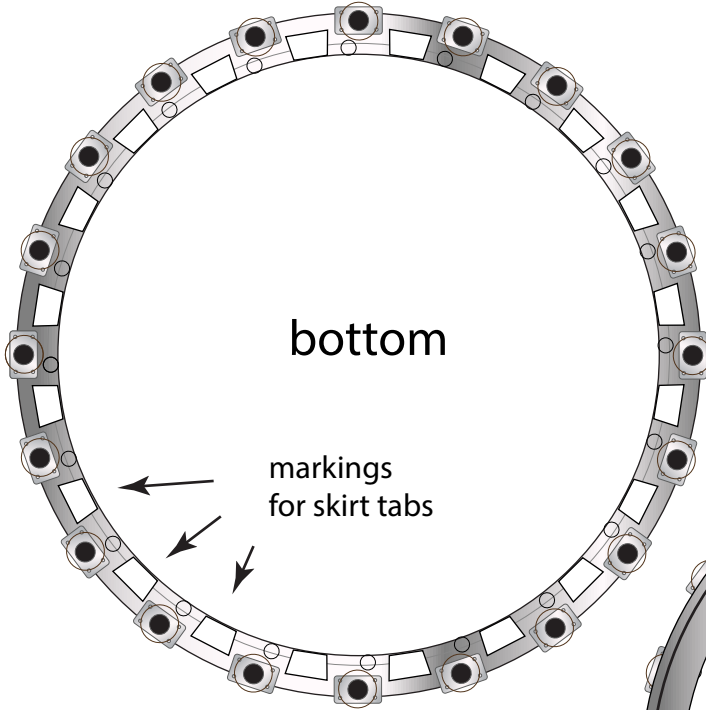
1 inch

1:100 Scale

# SpaceX SuperHeavy

Print on Cardstock ( 110 lbs)

## Outer Raptor ring



## Engine section interior layer







1 cm

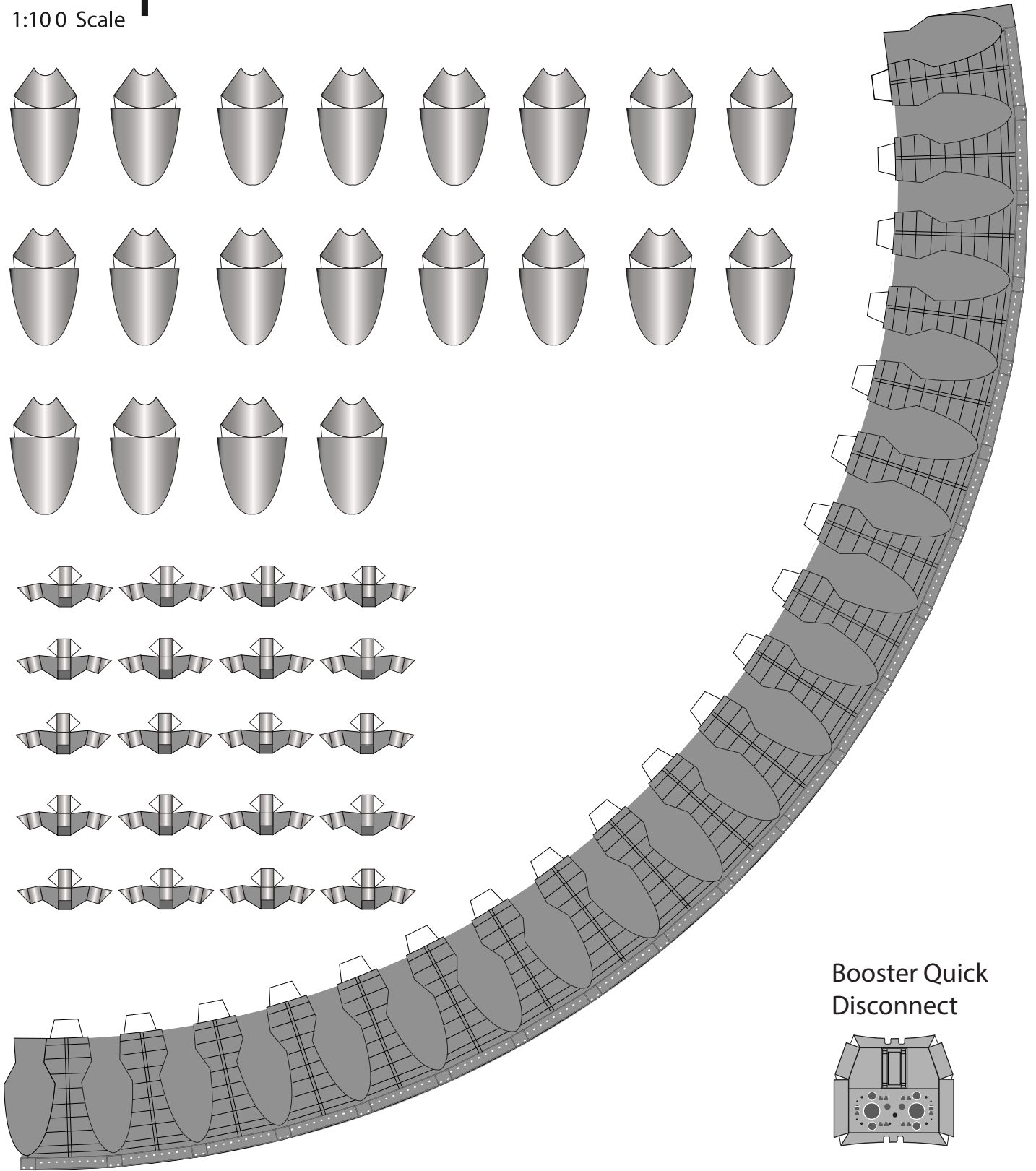
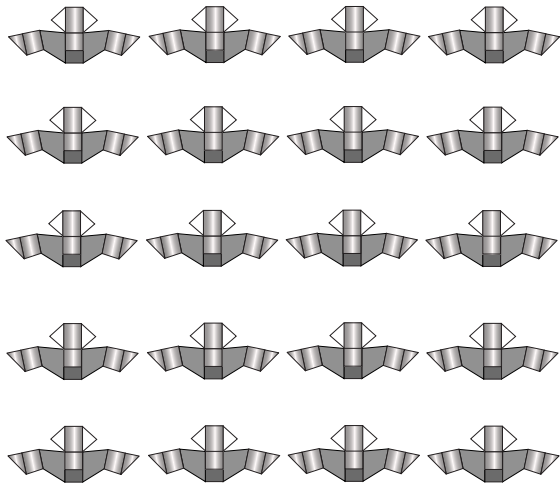
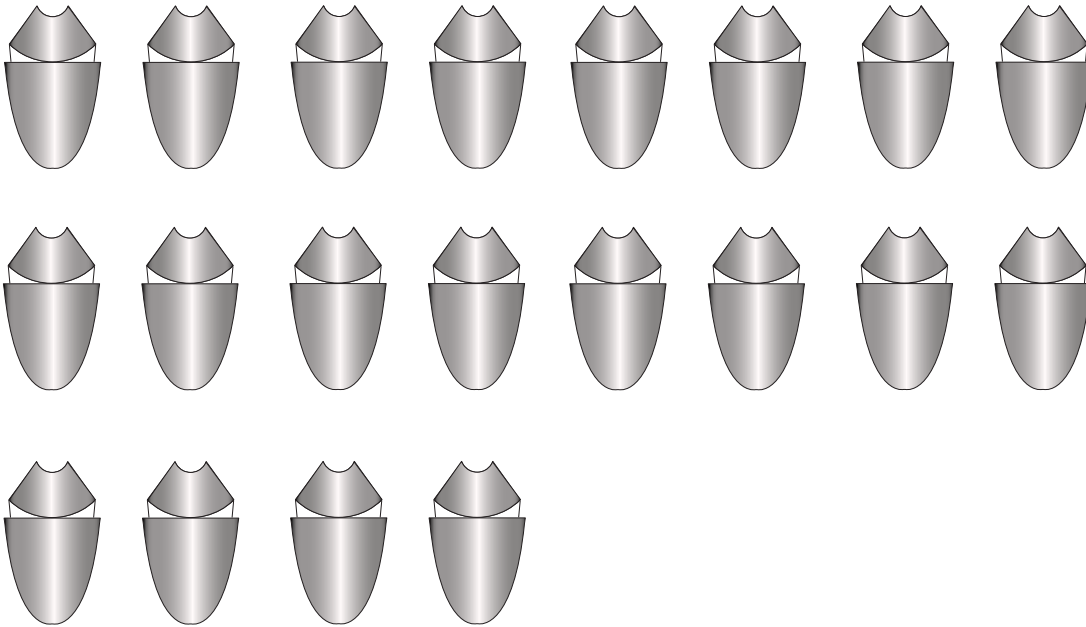
1 inch

1:100 Scale

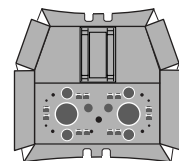
# SpaceX Heavy Booster 13

Print on Cardstock (90 lbs)

## Skirt for engine section



**Booster Quick Disconnect**



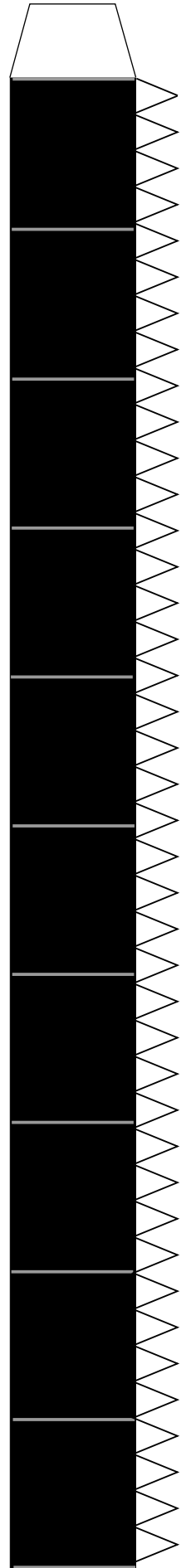
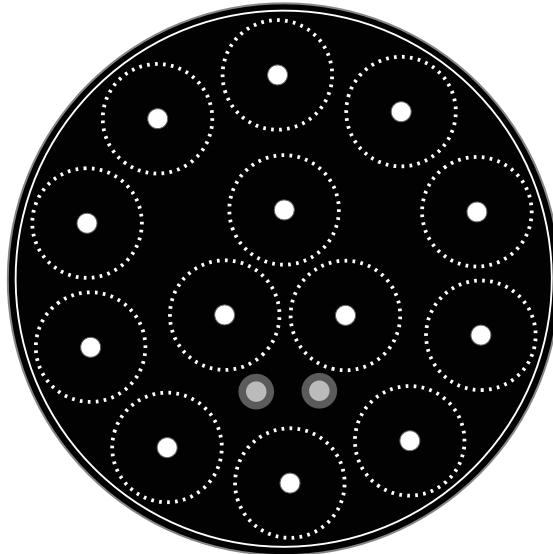
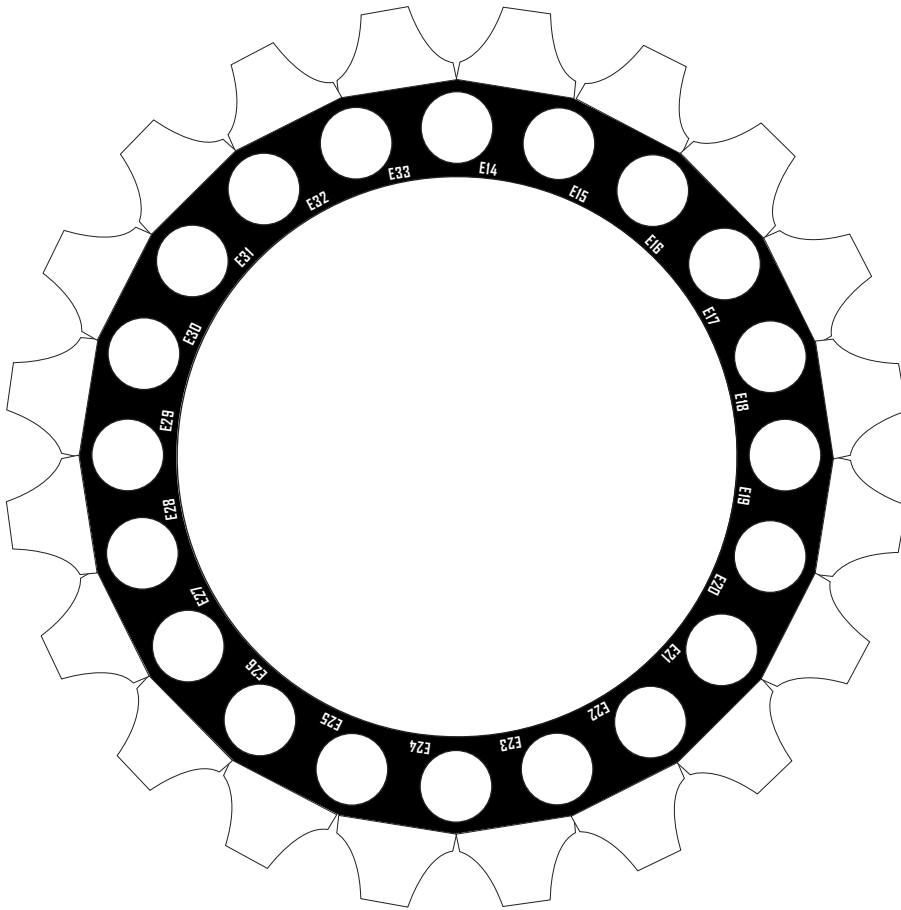
Place 2 magnets on the back to match with magnets from OLM's QD arm



1:100 Scale

# SpaceX Heavy Booster 13

## Skirt floor and wall



Print on Cardstock (90 lbs)



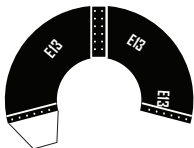
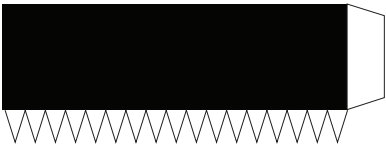
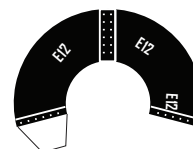
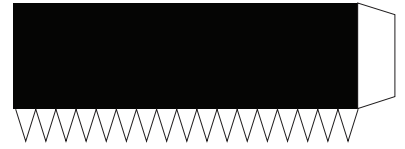
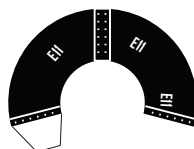
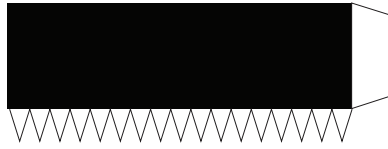
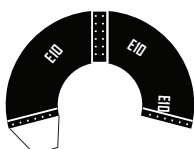
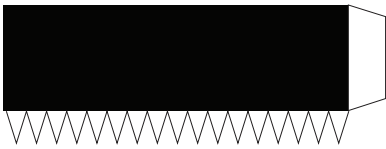
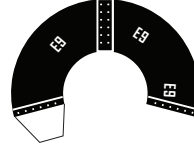
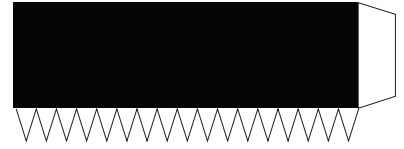
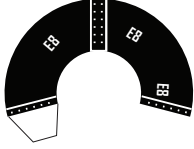
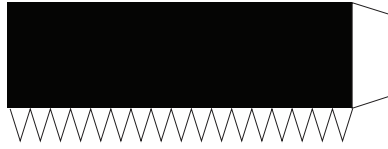
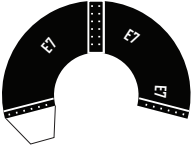
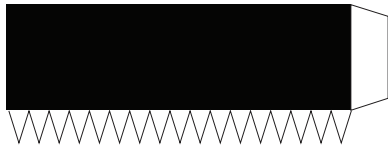
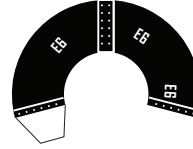
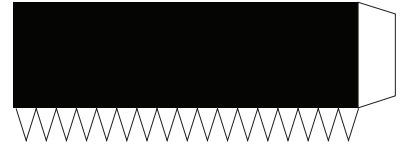
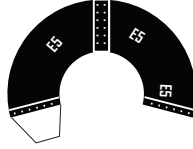
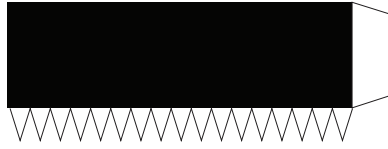
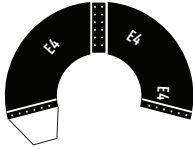
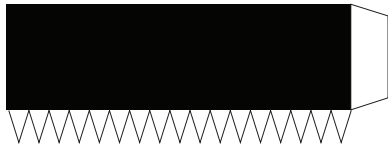
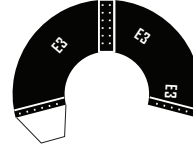
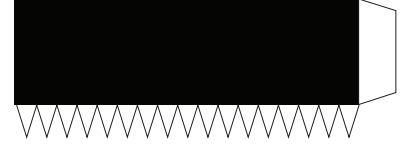
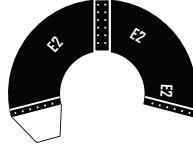
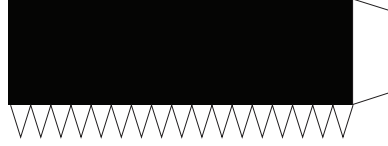
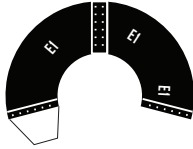
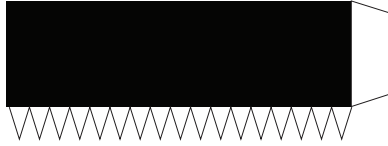
1 cm

1 inch

1:100 Scale

# B13 inner Raptor covers

Print on cardstock





1 cm

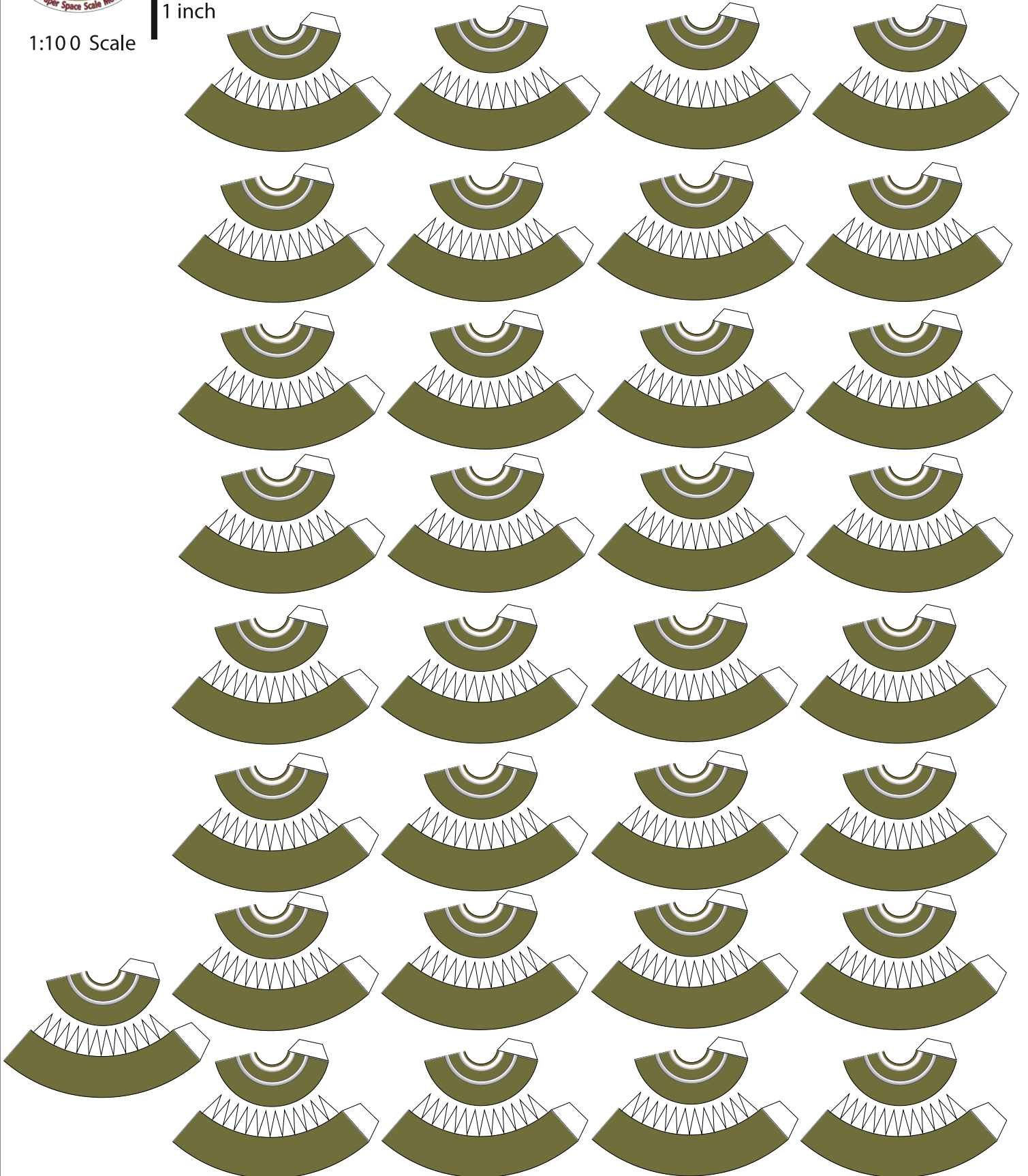
# SuperHeavy Raptors

Print on Cardstock ( 110 lbs)

## B13

1 inch

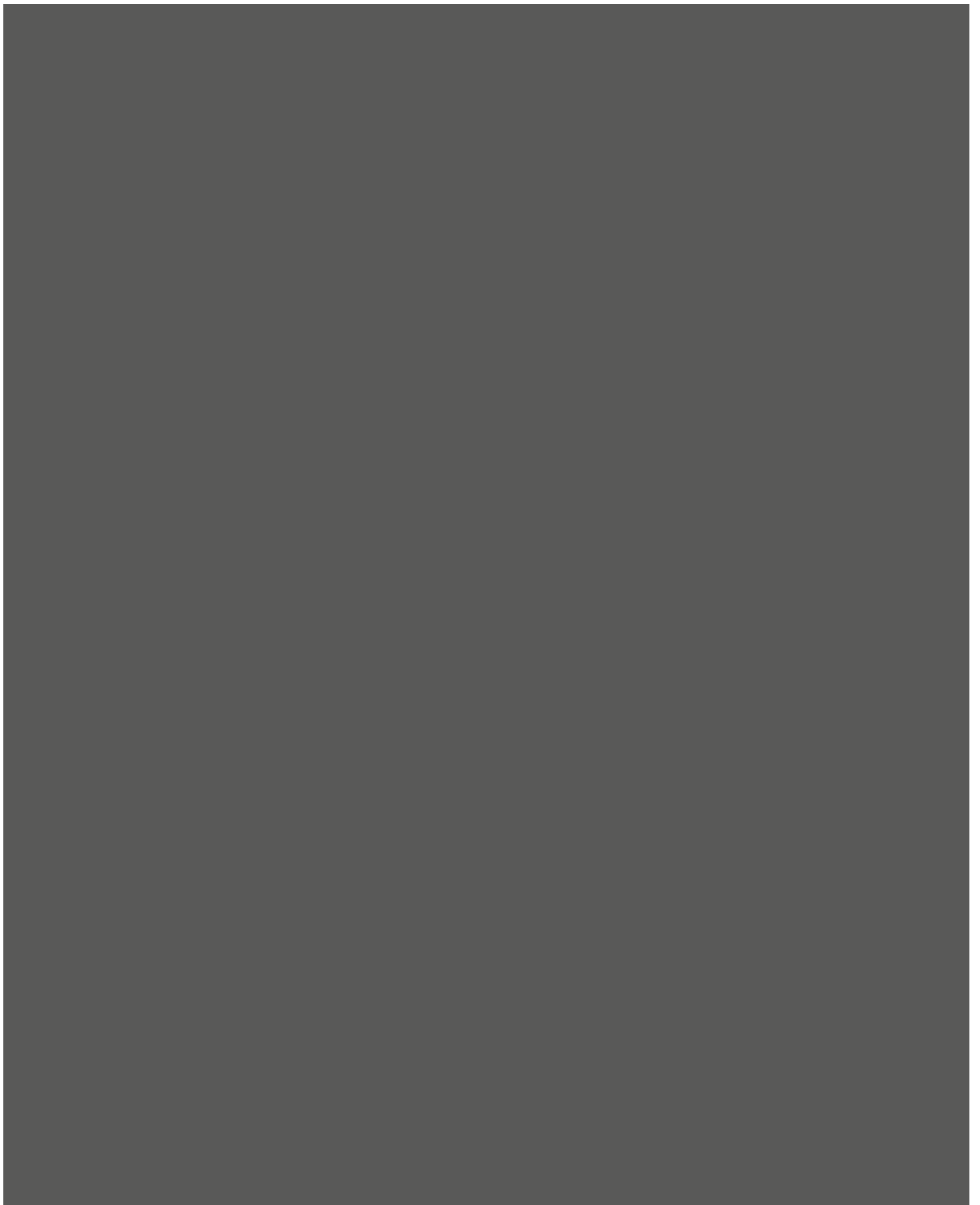
1:100 Scale





# SuperHeavy Raptors BACKPRINT

Print on Cardstock ( 110 lbs)





1 cm

1 inch

1:100 Scale

# SpaceX Heavy Booster 13

## Raptor location

Umbilical side

