



# The Acousta 116

Build your Legacy

Difficulty: Intermediate

Official Plans by Lowther Loudspeakers

Version 1222





# Welcome to the Lowther Family

We are proud of our heritage. Every Lowther Loudspeaker cabinet has been designed by ear and built by hand. Some of those cabinets are built by our very own master craftsman, but most Lowther speakers in existence are built by people like yourself.

For decades people from all over the world, with all levels of wood working skills, have used our plans and our full range drivers to build their own part of our history. And every single one of those people have a fundamental appreciation for music and a firm understanding that the quality of its reproduction matters.

We are all on a quest to re-create the original intended message of our favourite composers or artists, with maximum realism, emotion and intensity. Music is important. Listening to it in the highest possible fidelity is equally as important.

**We look forward to seeing what you build.**



# The Acousta 116

The Lowther Acousta 116 is the best known and most popular Lowther enclosure to date. Much loved by home builders around the world for it's overwhelming clarity and accurate reproduction of their music.

Suitable for use in a wide range of rooms (25 sq.m+). The Acousta is easy to position and they are not overly dependant on proximity to corners for bass response.

Due to the complexity of the labyrinth and size of this cabinet we have rated this an intermediate cabinet to build. However, with some time and care taken in construction, your Acousta will not disappoint.

## **Dimensions**

Height: 855mm, width: 468mm, depth: 373mm

## **Construction Note**

We recommend construction in Plywood however M.D.F can also be used. All panels must be firmly glued and airtight.













# Driver Recommendation

## **Lowther Recommendation**

**Alnico Magnet:** PM6A

**Ceramic Magnet:** PM6C

**Neodymium Magnet:** DX3

## **Alternative Drive Units**

All the following drive units will fit this cabinet.

### **Front**

DX2, DX3, DX4, EX2, EX3, EX4, PM6C, PM6A, PM7A.

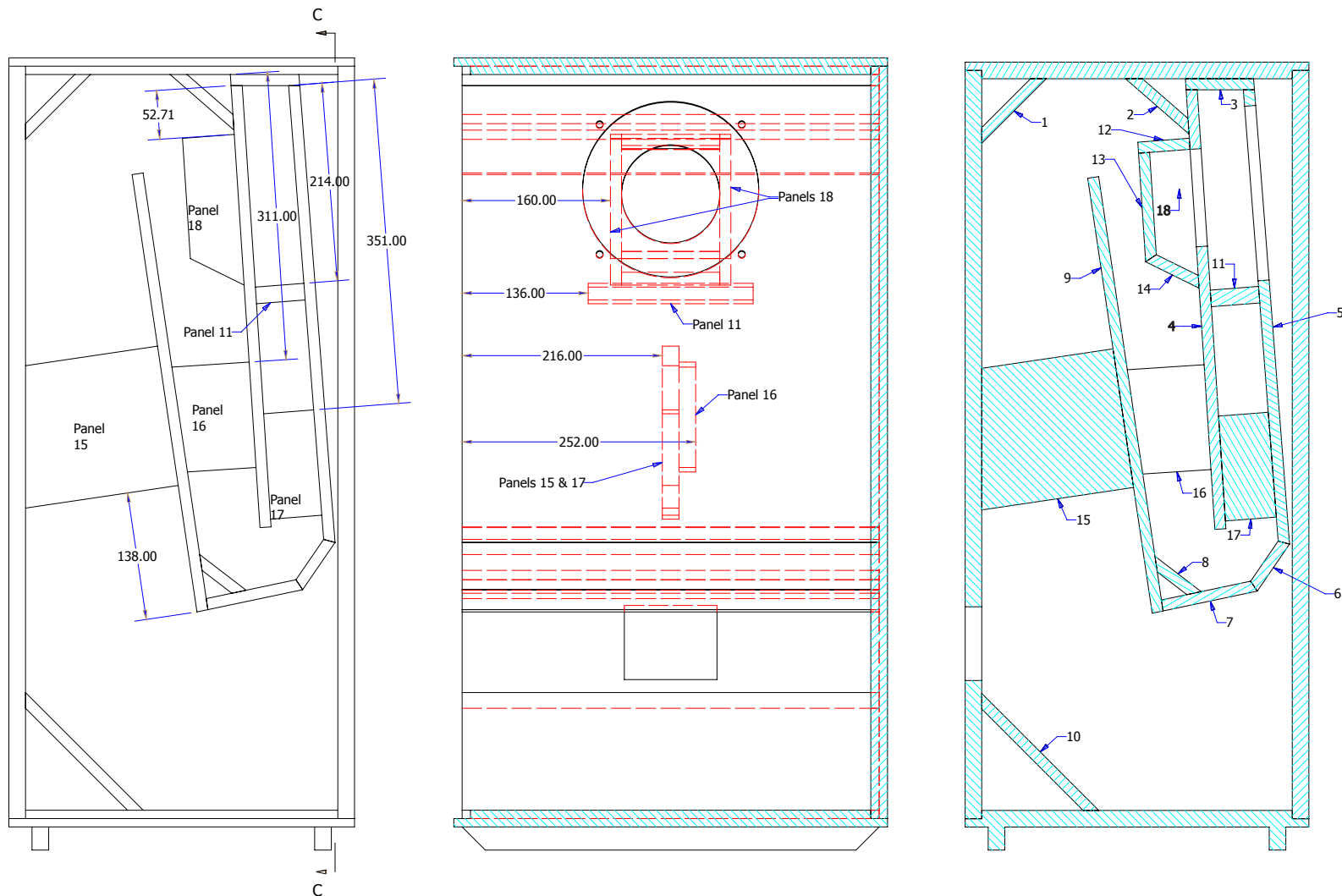
## **Buying your drive unit**

To purchase a Lowther drive unit please visit:

[www.lowtherloudspeakers.com](http://www.lowtherloudspeakers.com)

# Dividers & Box Reference

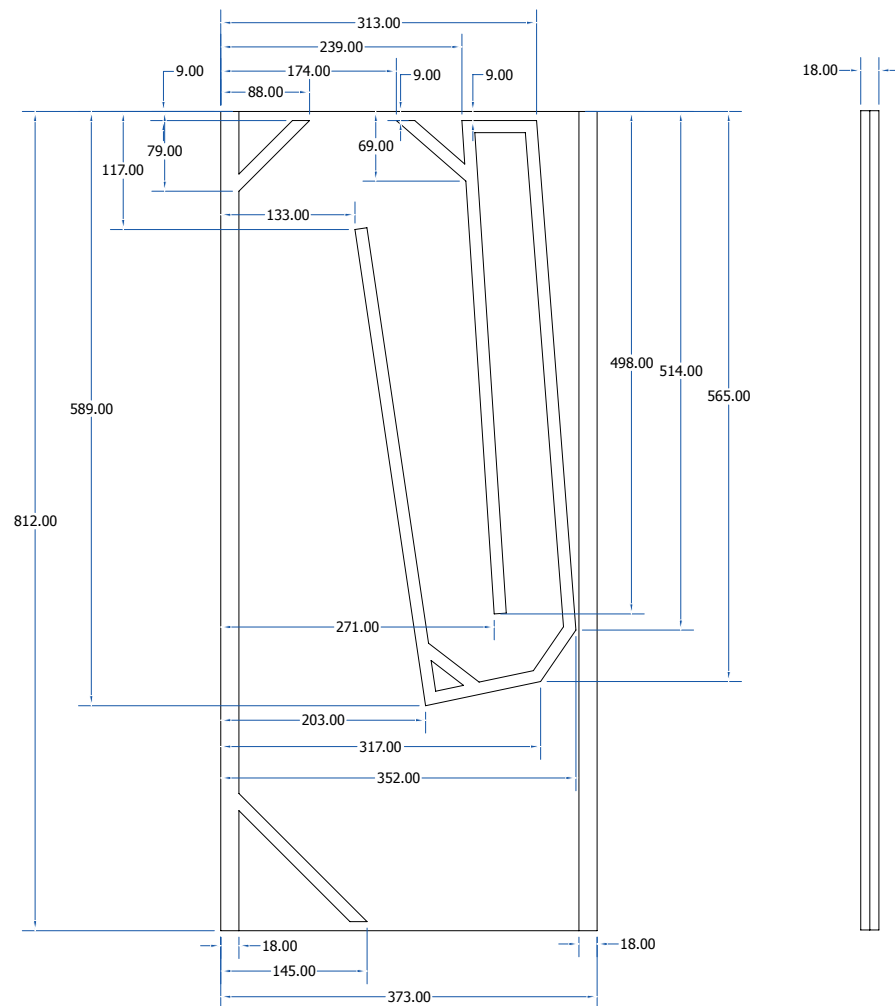
Drawing units: Millimetres





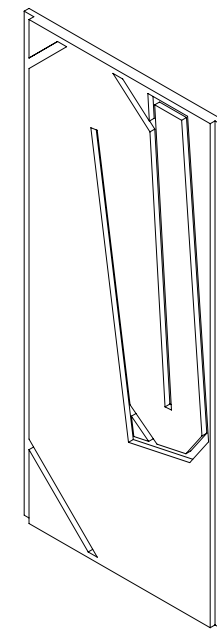
# Side Panel

Drawing units: Millimetres



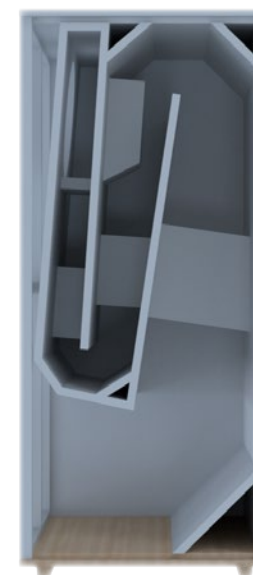
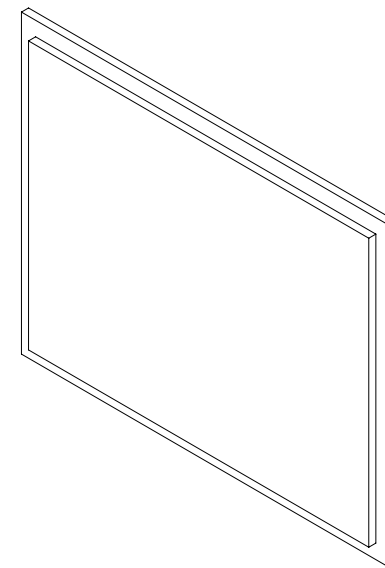
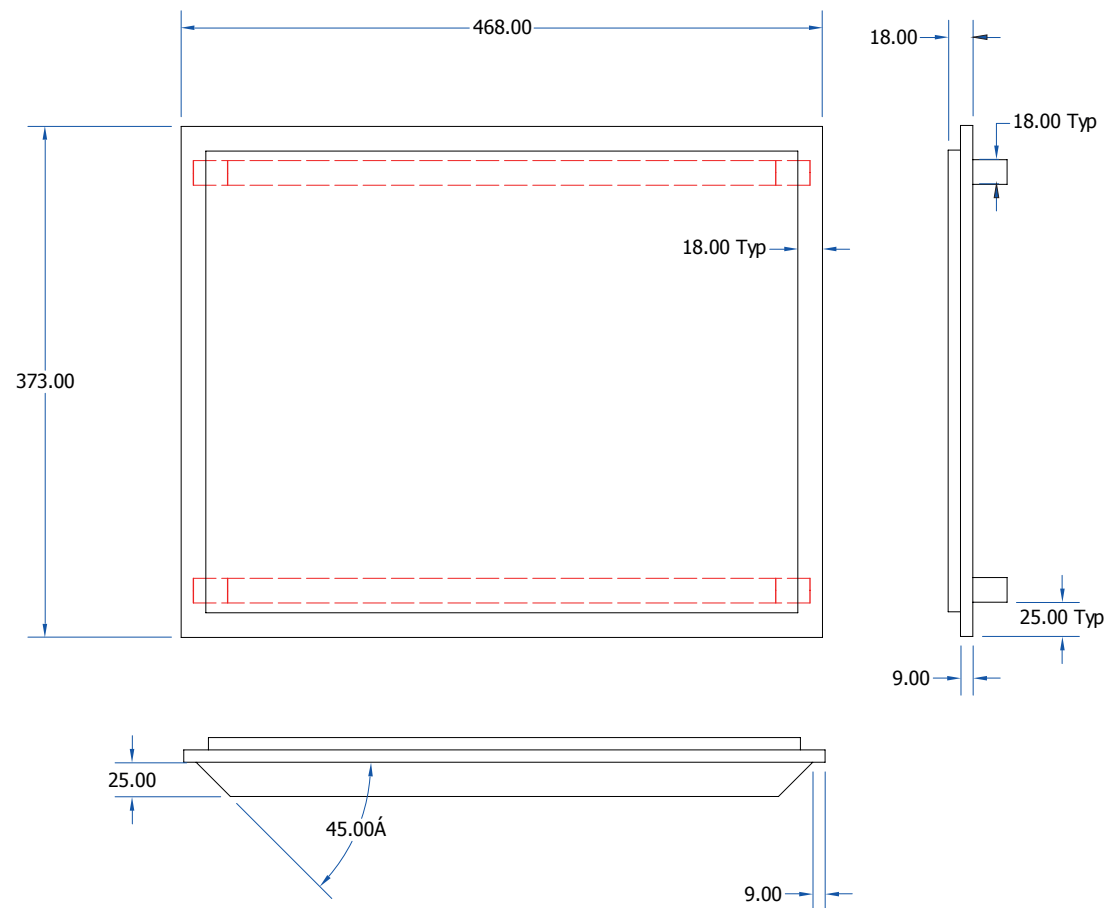
All interior panel rebates are at 12mm wide x 9mm deep.  
Front & Grill panel rebates are at 18mm wide x 9mm deep.

It is permissible to omit the interior panel rebates and use battens instead. If this is done the width of the full width interior panels should be reduced by 18mm.



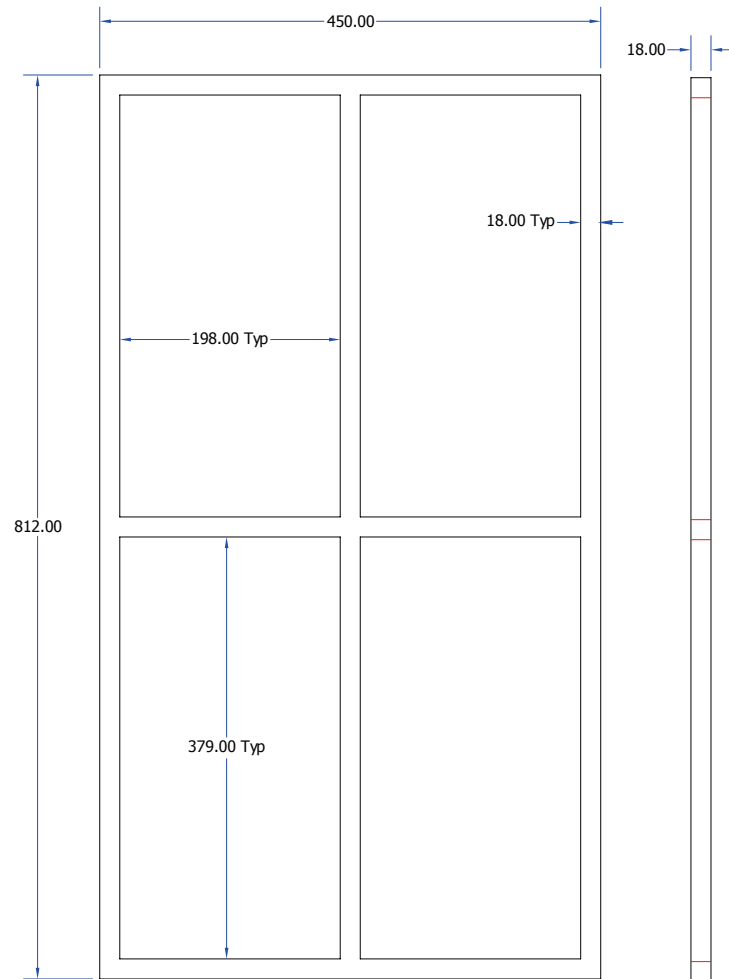
# Base Panel

Drawing units: Millimetres

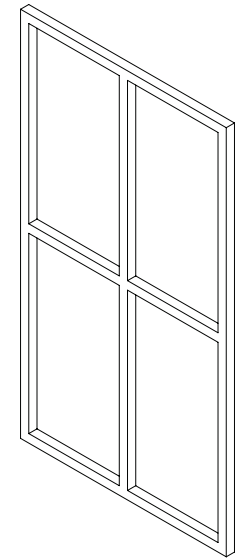


# Grill Panel

Drawing units: Millimetres



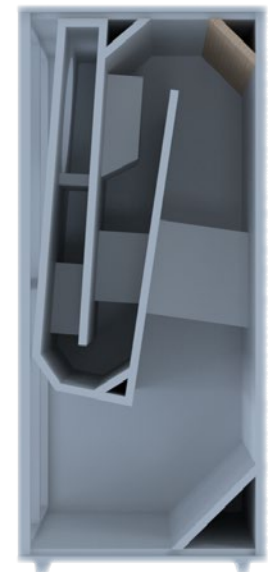
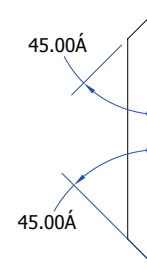
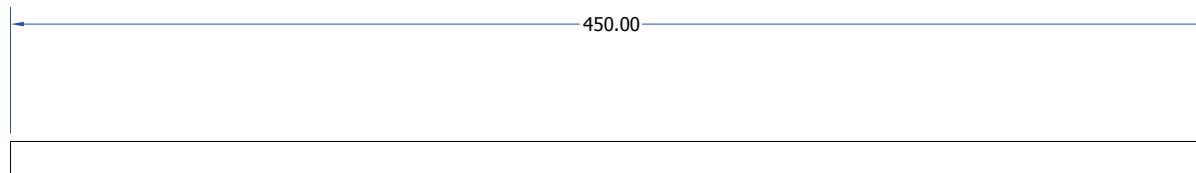
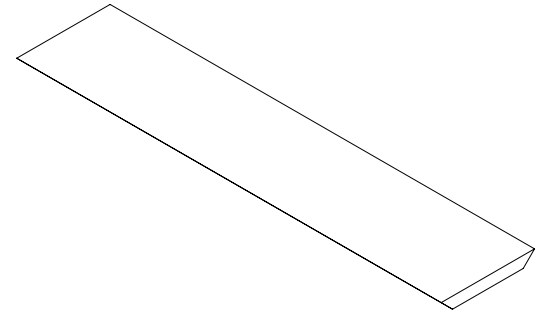
The Grill Panel should be covered with an acoustically transparent cloth and fitted with velcro pads.





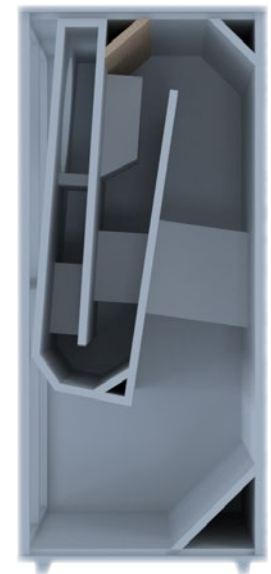
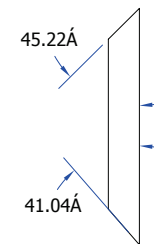
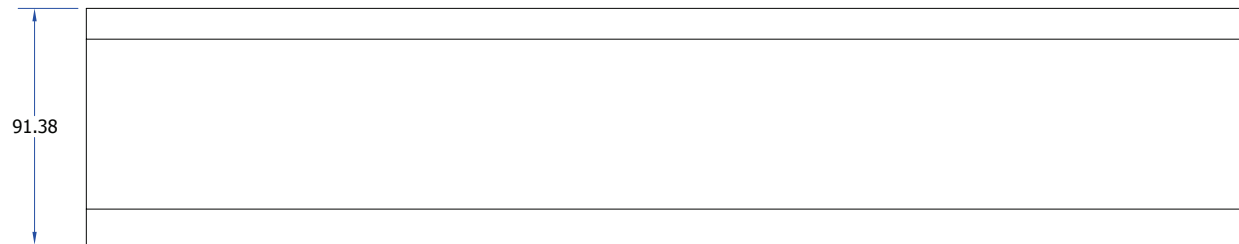
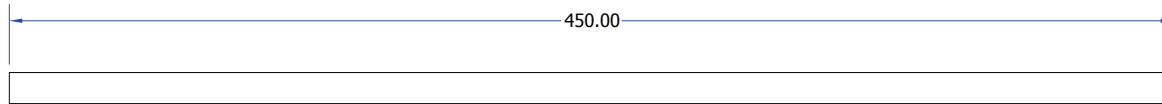
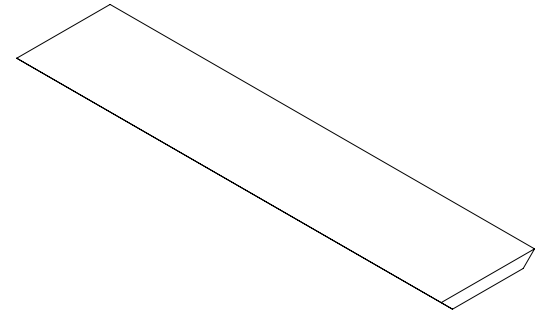
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Drawing units: Millimetres



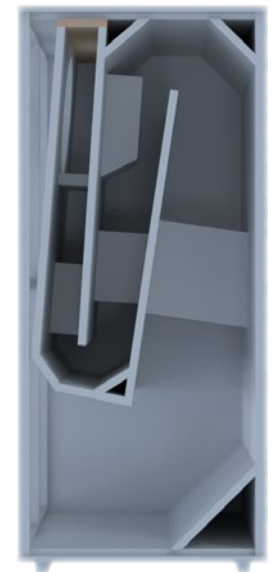
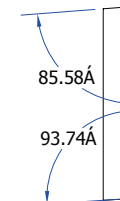
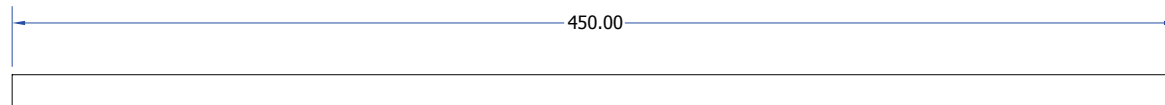
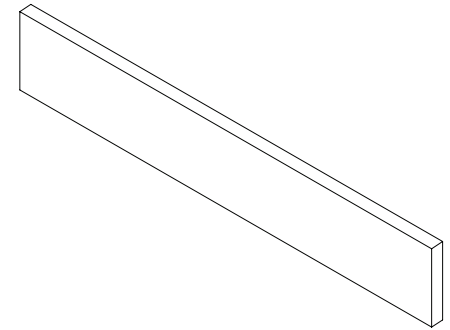
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Drawing units: Millimetres



# Panel 3

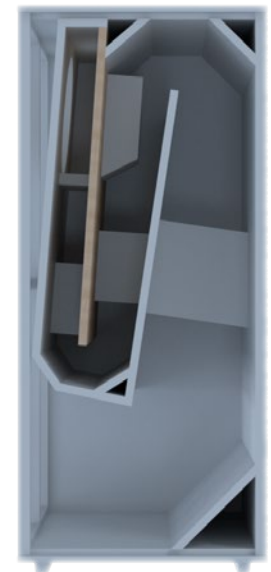
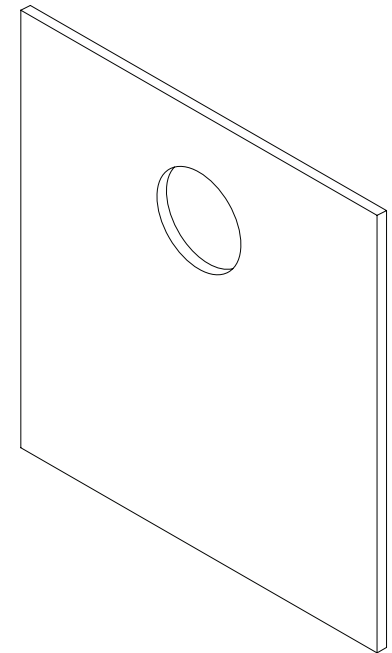
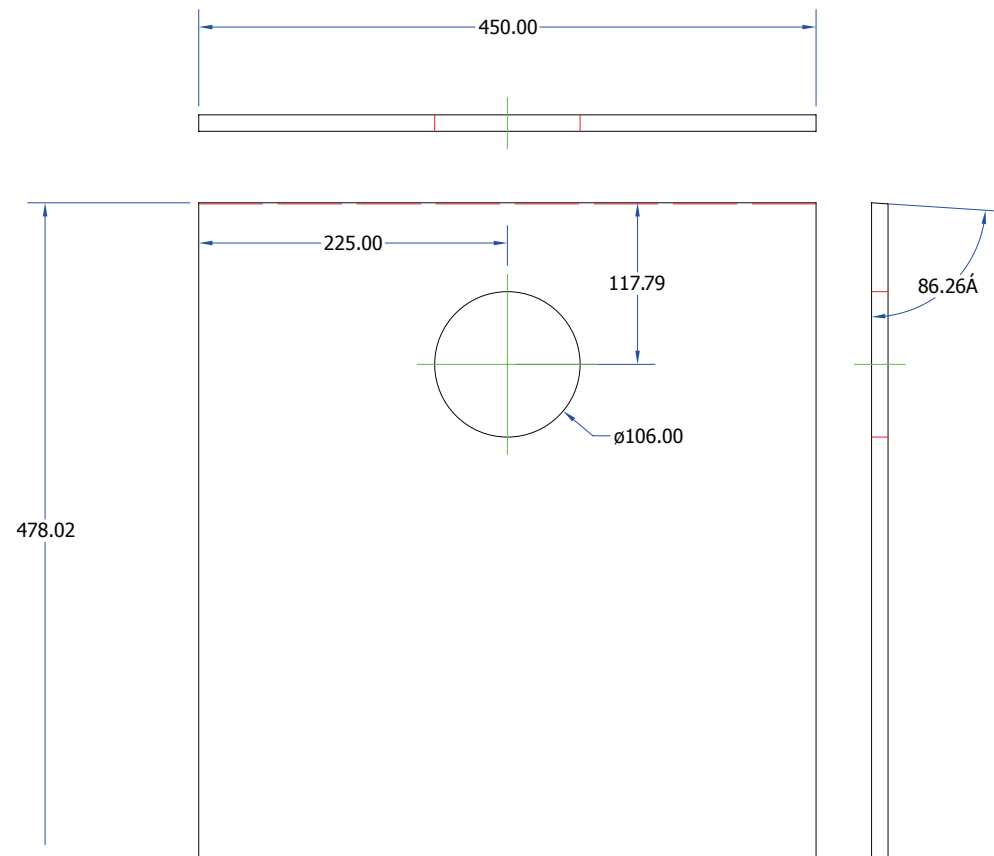
Drawing units: Millimetres





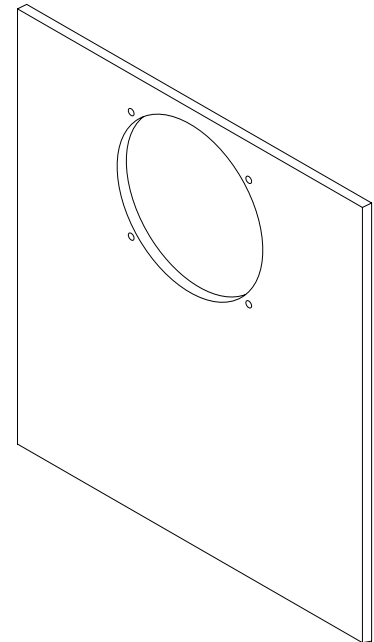
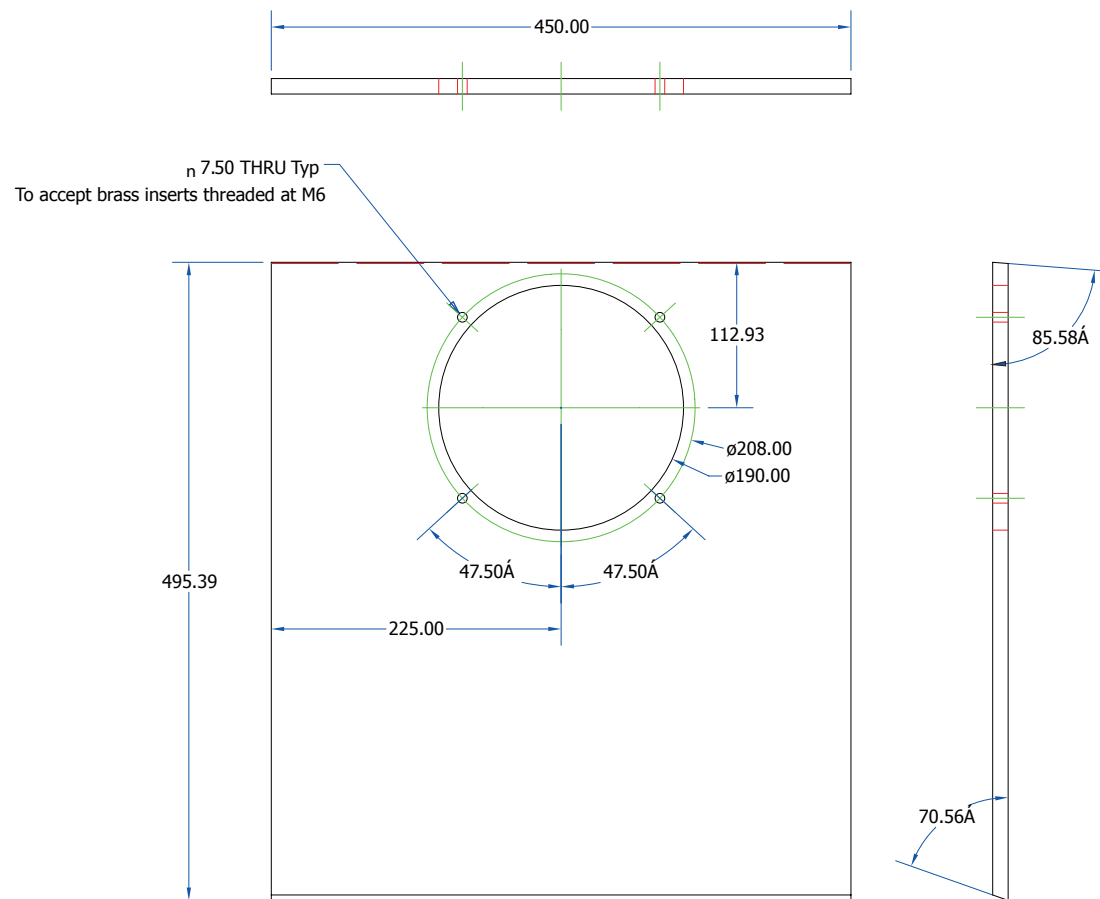
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Drawing units: Millimetres



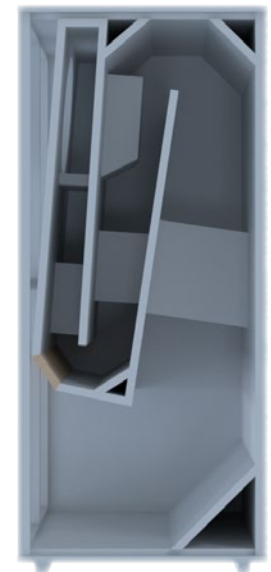
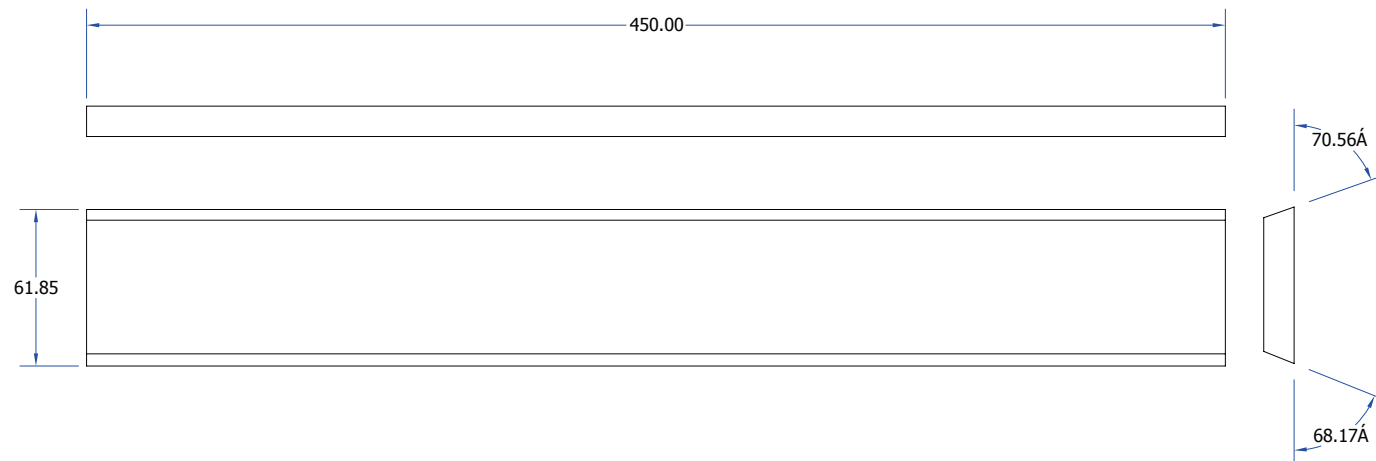
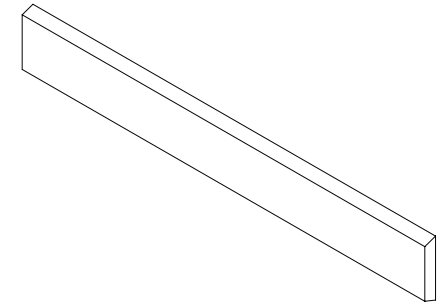
# Panel 5

Drawing units: Millimetres



# Panel 6

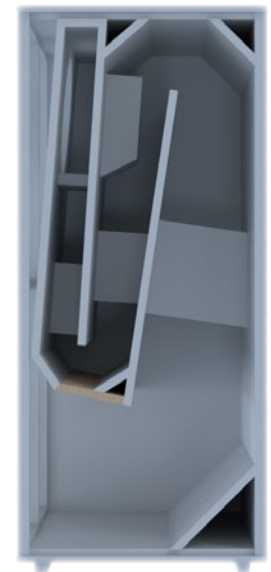
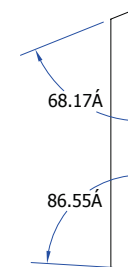
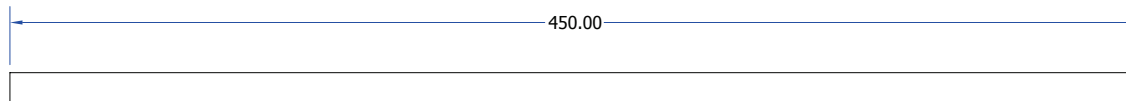
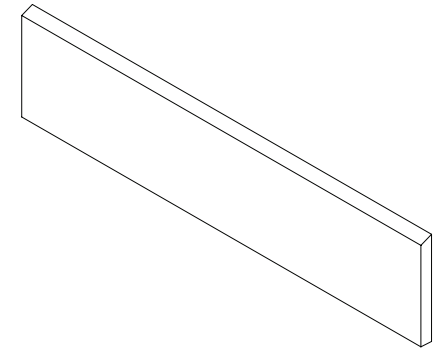
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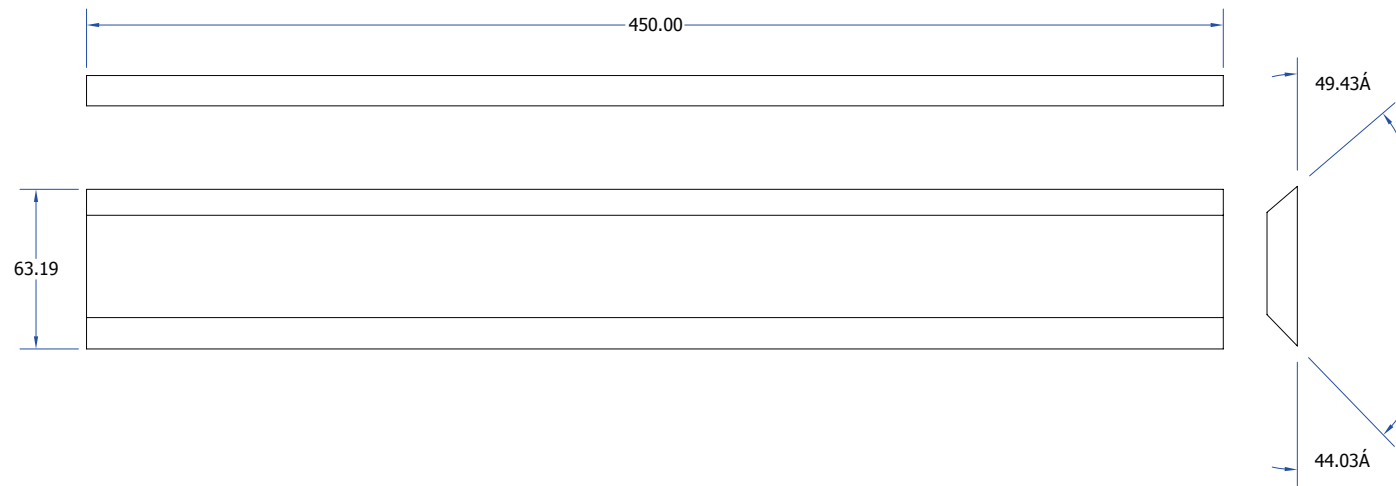
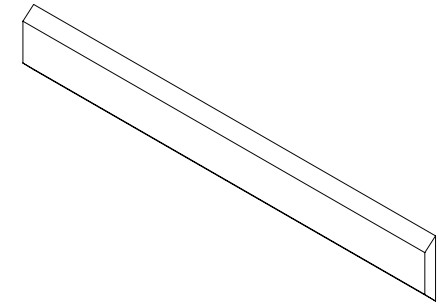
# Panel 7

Drawing units: Millimetres



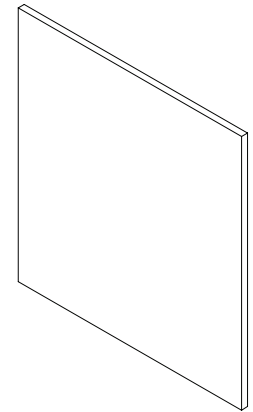
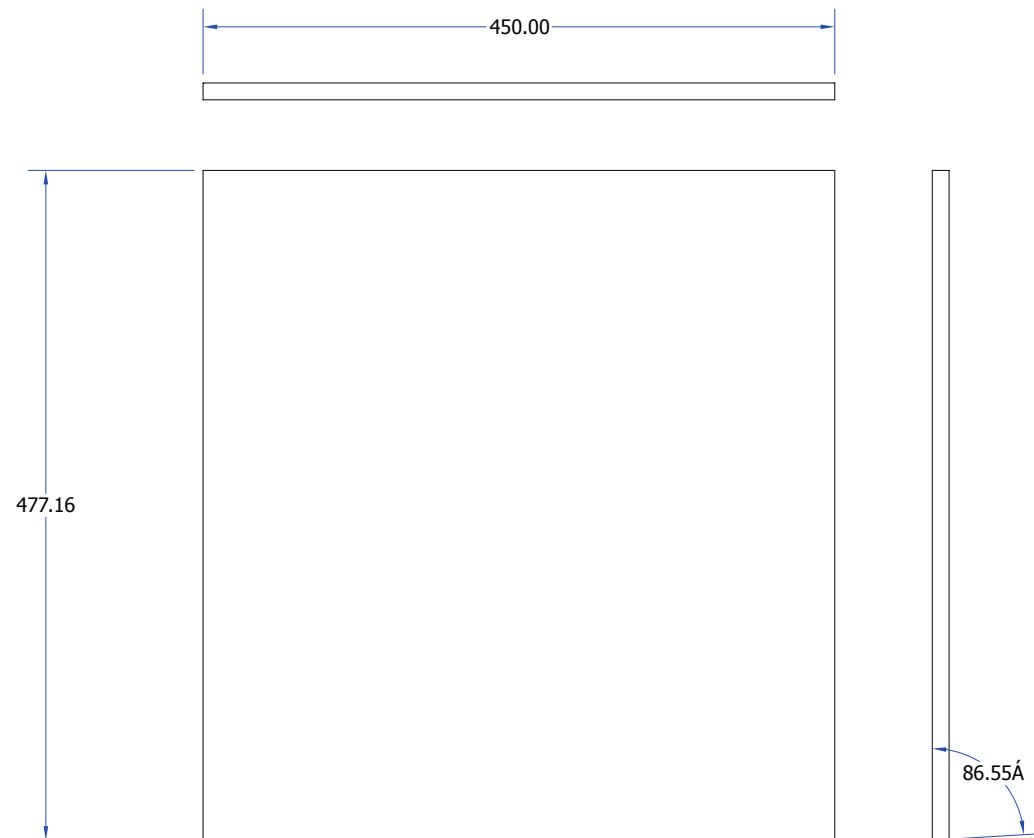
# Panel 8

Drawing units: Millimetres



# Panel 9

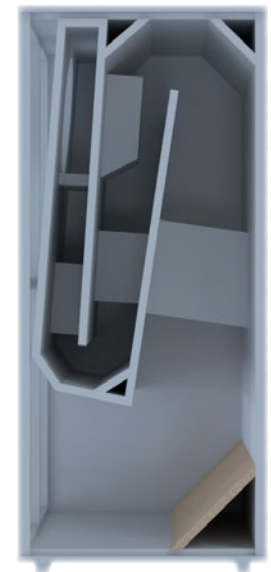
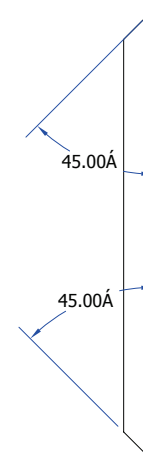
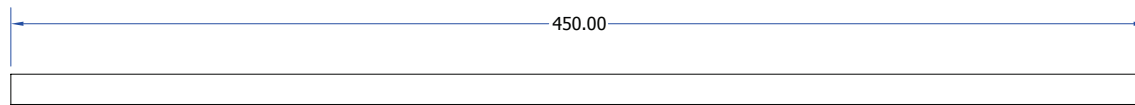
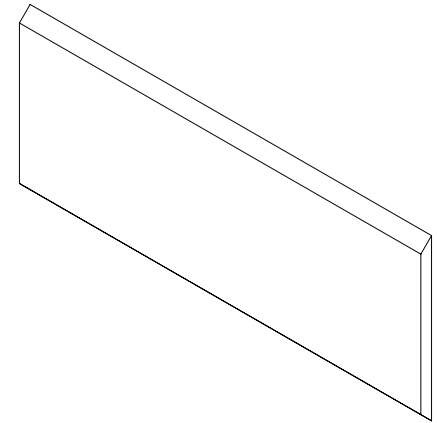
Drawing units: Millimetres





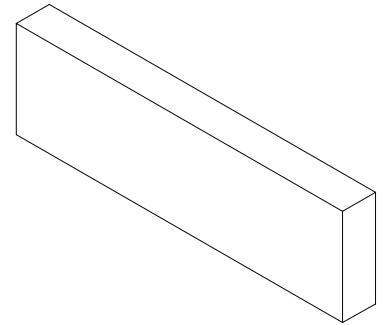
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Drawing units: Millimetres



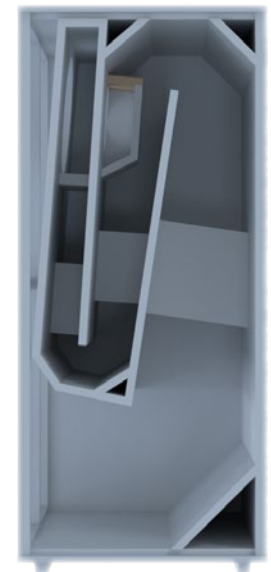
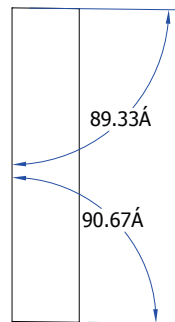
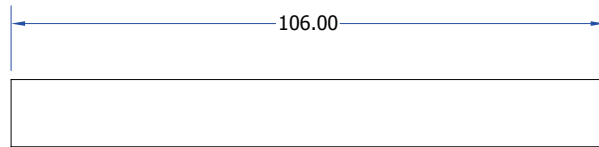
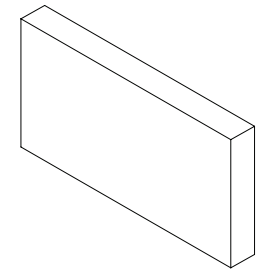
# Panel 11

Drawing units: Millimetres



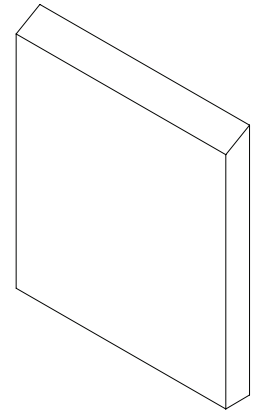
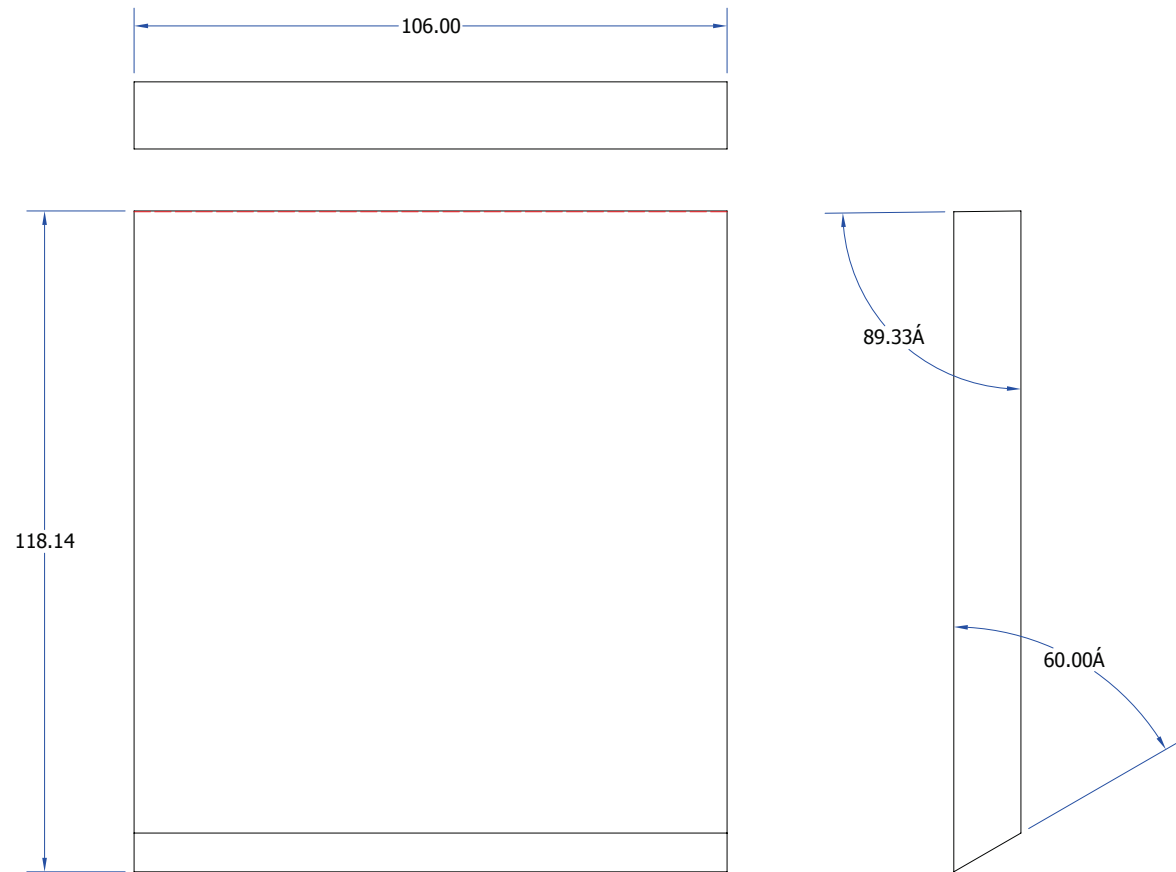
# Panel 12

Drawing units: Millimetres



# Panel 13

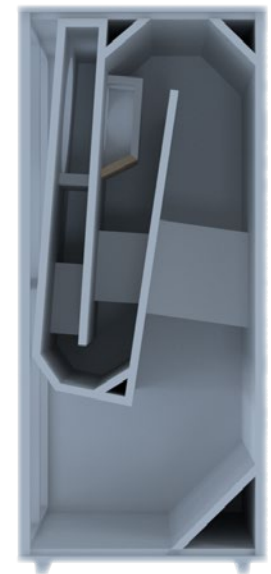
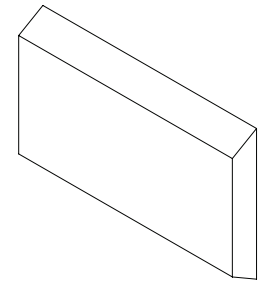
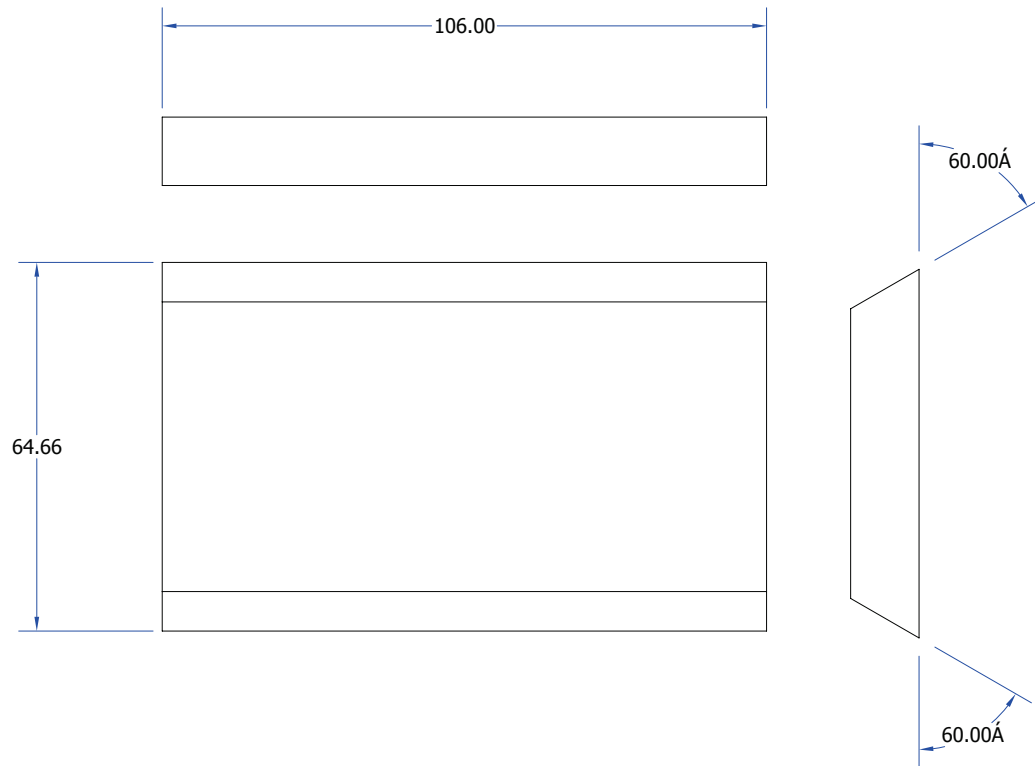
Drawing units: Millimetres





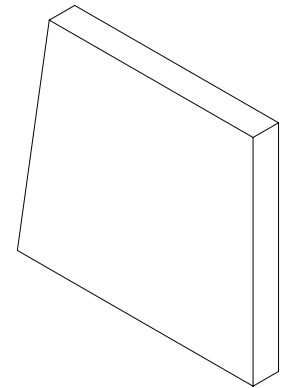
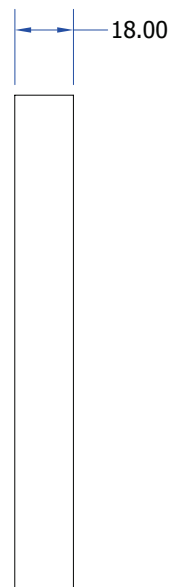
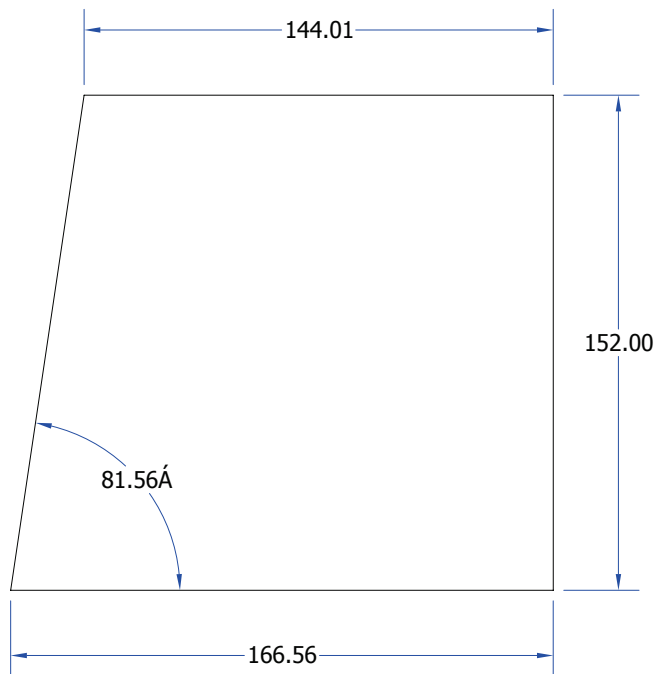
# Panel 14

Drawing units: Millimetres



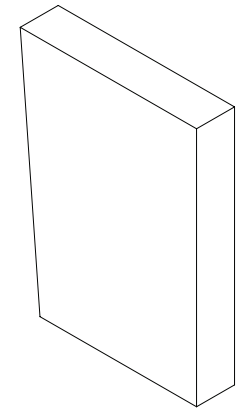
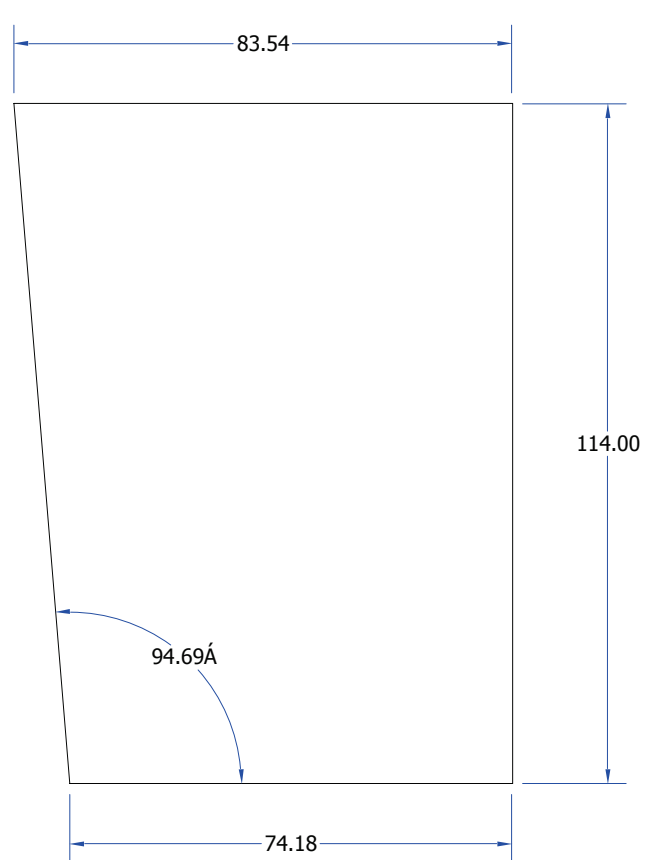
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Drawing units: Millimetres



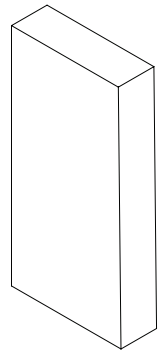
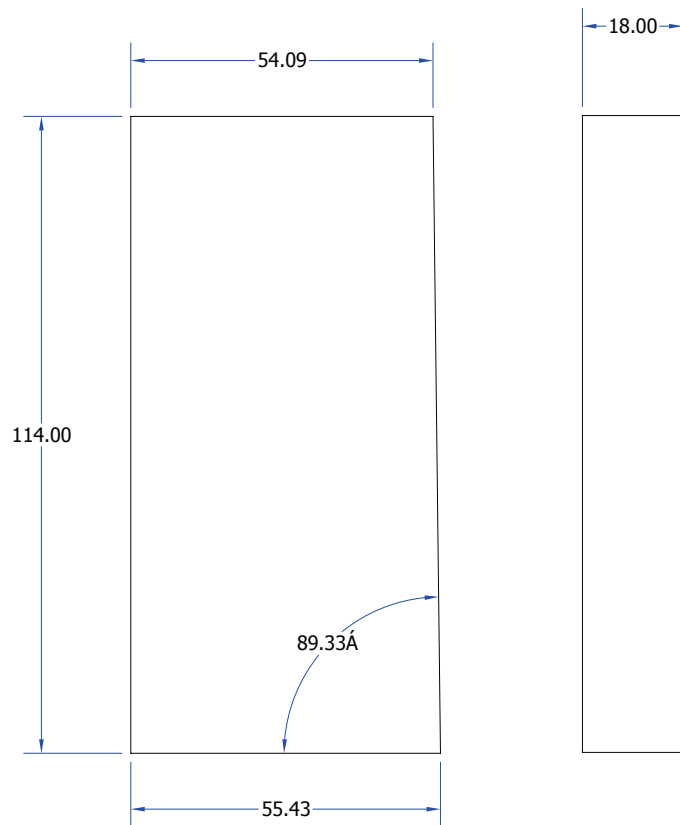
# Panel 16

Drawing units: Millimetres



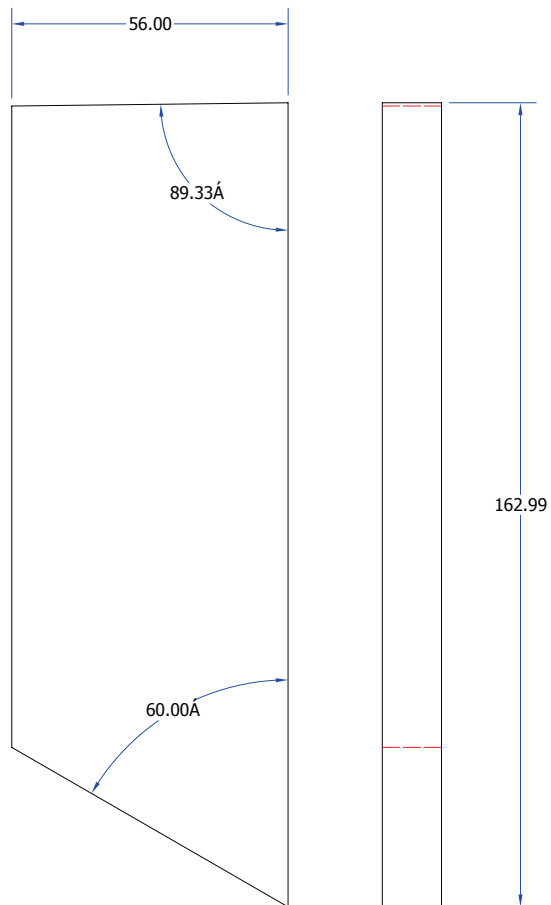
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Drawing units: Millimetres

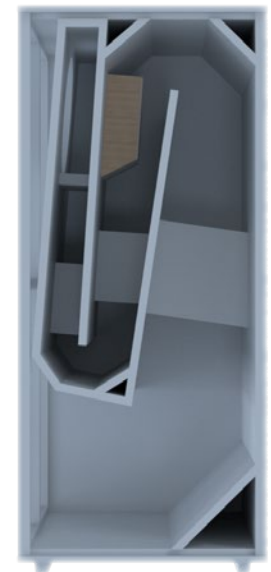
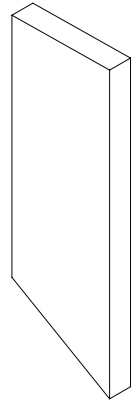


# Panel 18

Drawing units: Millimetres



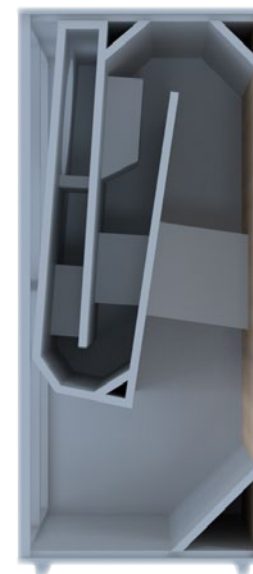
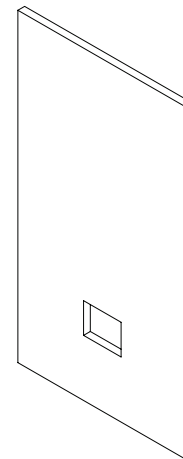
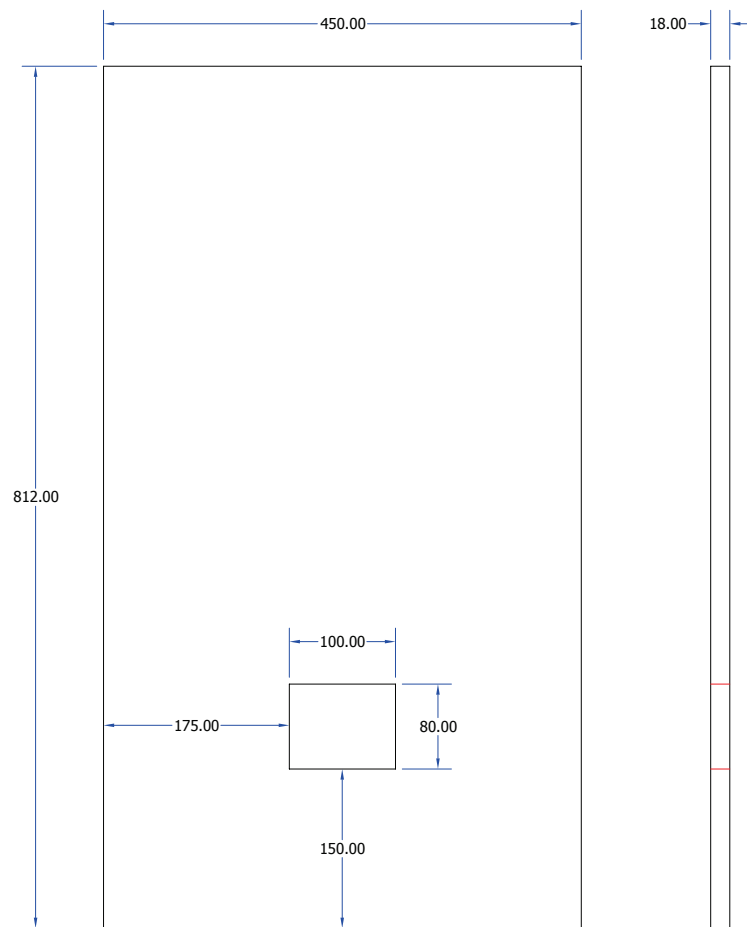
Two of these panels are required.





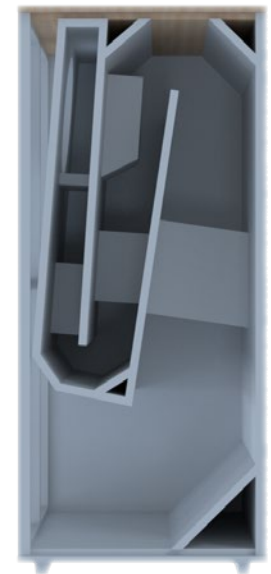
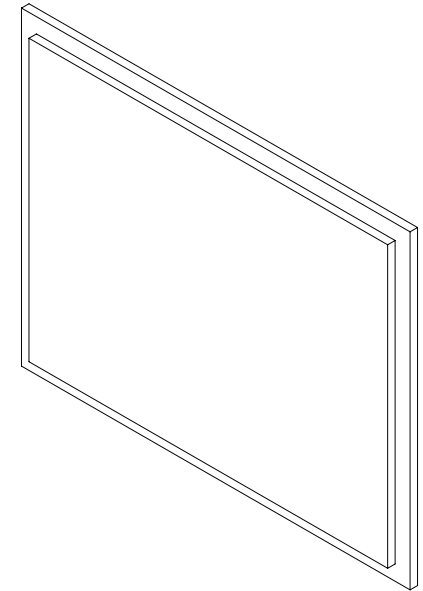
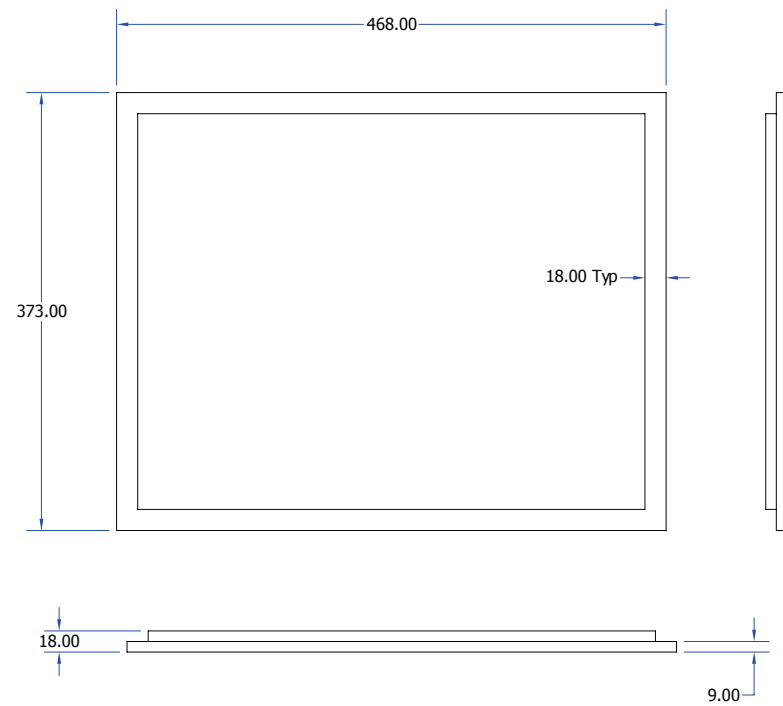
# Rear Panel

Drawing units: Millimetres



# Top Panel

Drawing units: Millimetres





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[www.lowtherloudspeakers.com](http://www.lowtherloudspeakers.com)