

Fuselage Design Guide

Name:Group:Date:

Directions

Use this guide while you design your A+ Airways cabin in Floorplanner. Fill in each section as you build — you'll need these numbers again for your profit analysis in Activity 6.

Part 1 — Reference Aircraft & Fuselage Dimensions

Choose a real commercial aircraft to base your fuselage on. Look up the cabin width and length for an aircraft that has your chosen seat configuration. Add the measurements for cabin length and width in feet and inches to the Fuselage Dimensions table below.

Fuselage Dimensions Table

Reference aircraft I'm using:		
	Feet	Inches
Cabin width:		
Cabin length:		

**Reminder: Set your Floorplanner units to inches so your fuselage and seat pitch measurements match.*

Part 2 — Seat Layout Plan

Plan your cabin layout before you start placing seats in Floorplanner.

Target market for this design:

- ☐ Budget / Economy-focused
- ☐ Standard / Mixed-class
- ☐ Premium / Business-focused

Row configuration (e.g., 3-3, 2-2, 2-4-2):	
Seat pitch I'm using (from Activity 4):	

Part 3 — Design Checklist

Check off each item as your team completes it in Floorplanner.

- ☐ Fuselage walls drawn at the correct dimensions
- ☐ Seats placed in rows matching your chosen configuration
- ☐ Seat pitch matches your Activity 4 measurement
- ☐ A clear aisle is visible between seat rows
- ☐ Seat-class zones are labeled (if your design has more than one class)
- ☐ 2D layout saved, and 3D view checked

Part 4 — Final Seat Count

Once your layout is complete, fill in the table below. You will use these numbers in your Profit Calculation Sheet during Activity 6.

Seat Class / Section	Number of Seats	Seat Pitch (inches)
Premium / Business		
Economy / Standard		
Other		
Total		

Notes: Anything else about your design you'll want to remember for your pitch (galley, overhead bins, dividers, etc.)