

Weight and Balance

- Basic task of airmanship
- Center of gravity affects aircraft control
- Pilot in command's responsibility
- Required for ALL flights
- Must be conducted in compliance with aircraft limitations

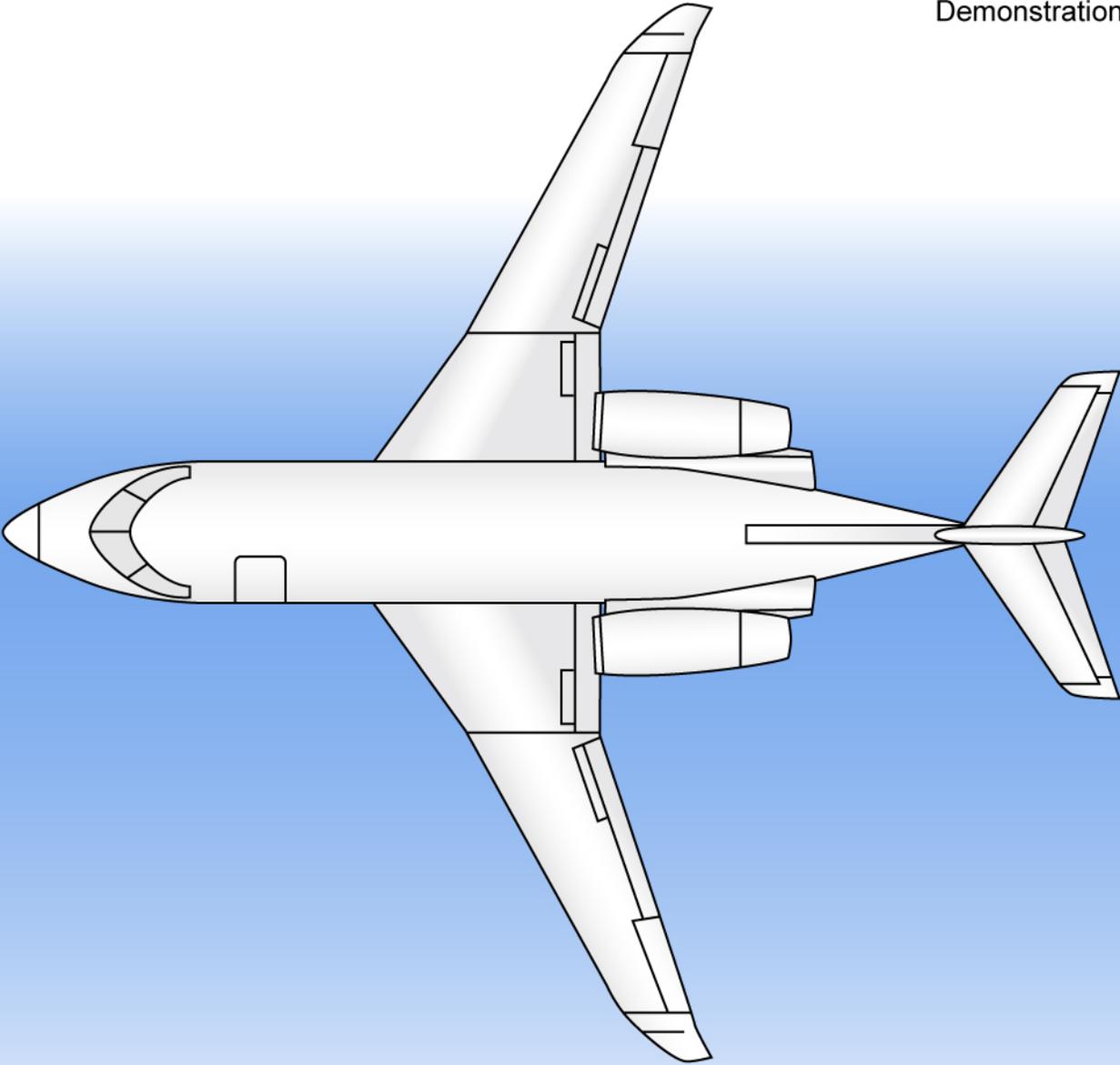
Accident Flight

- Flight Crew assigned to flight well in advance
- Flight Crew requests top-off of fuel

Accident Flight

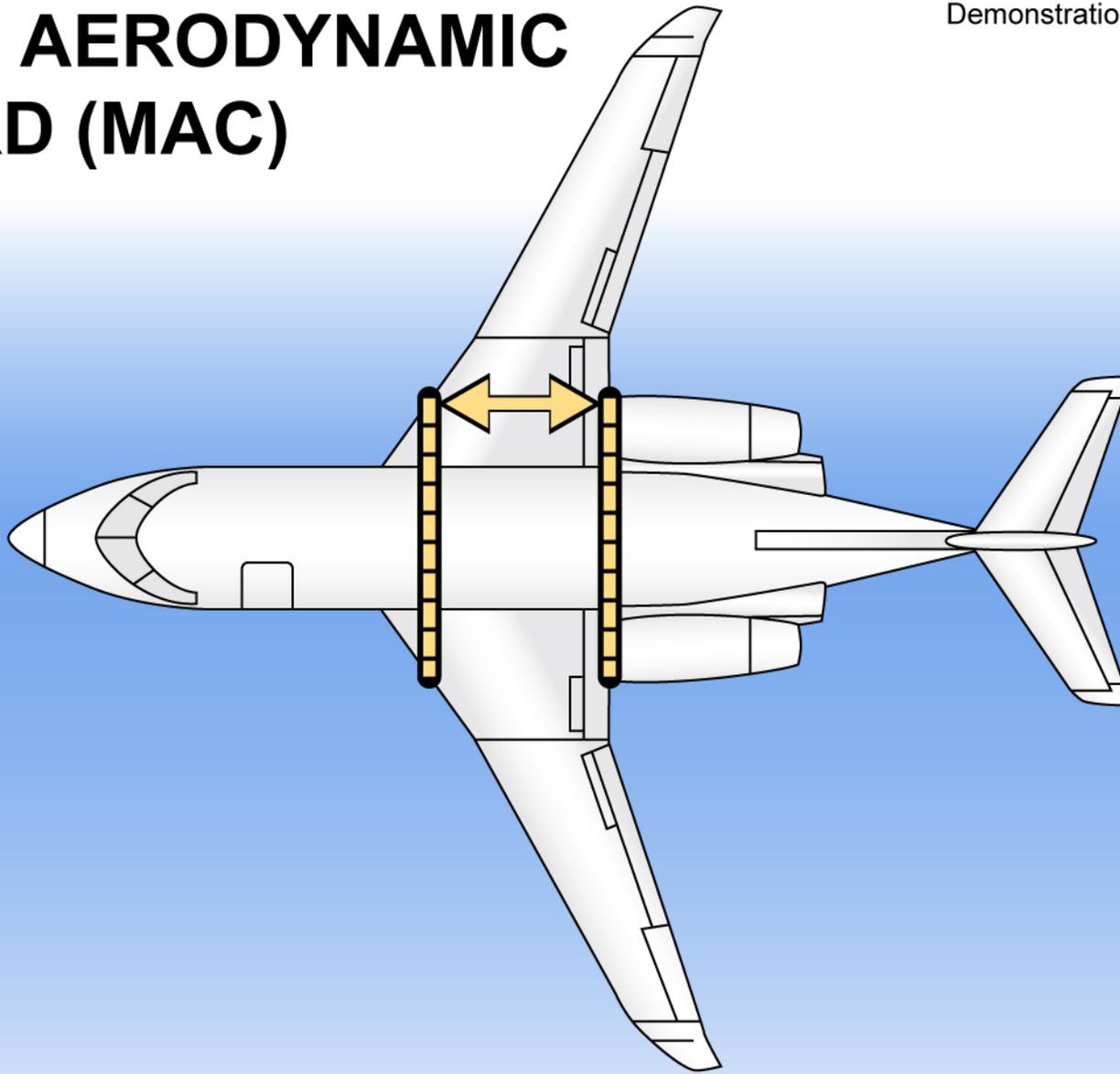
- Flight Crew did not produce a Load Manifest
- Flight Crew did not properly calculate or evaluate the airplane's weight or center of gravity
- All materials and documents available
- Modified forms

Demonstration is not to scale



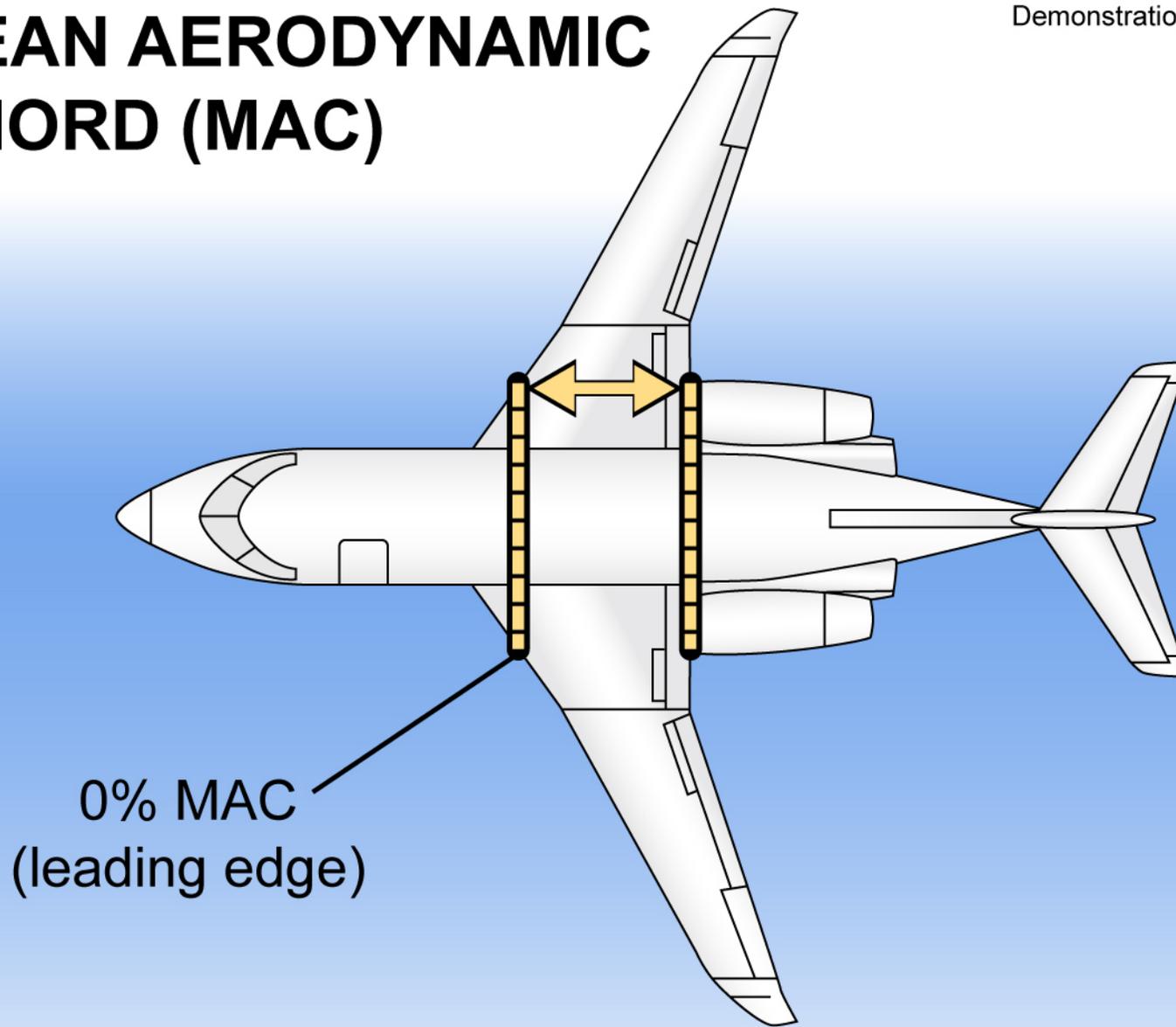
MEAN AERODYNAMIC CHORD (MAC)

Demonstration is not to scale



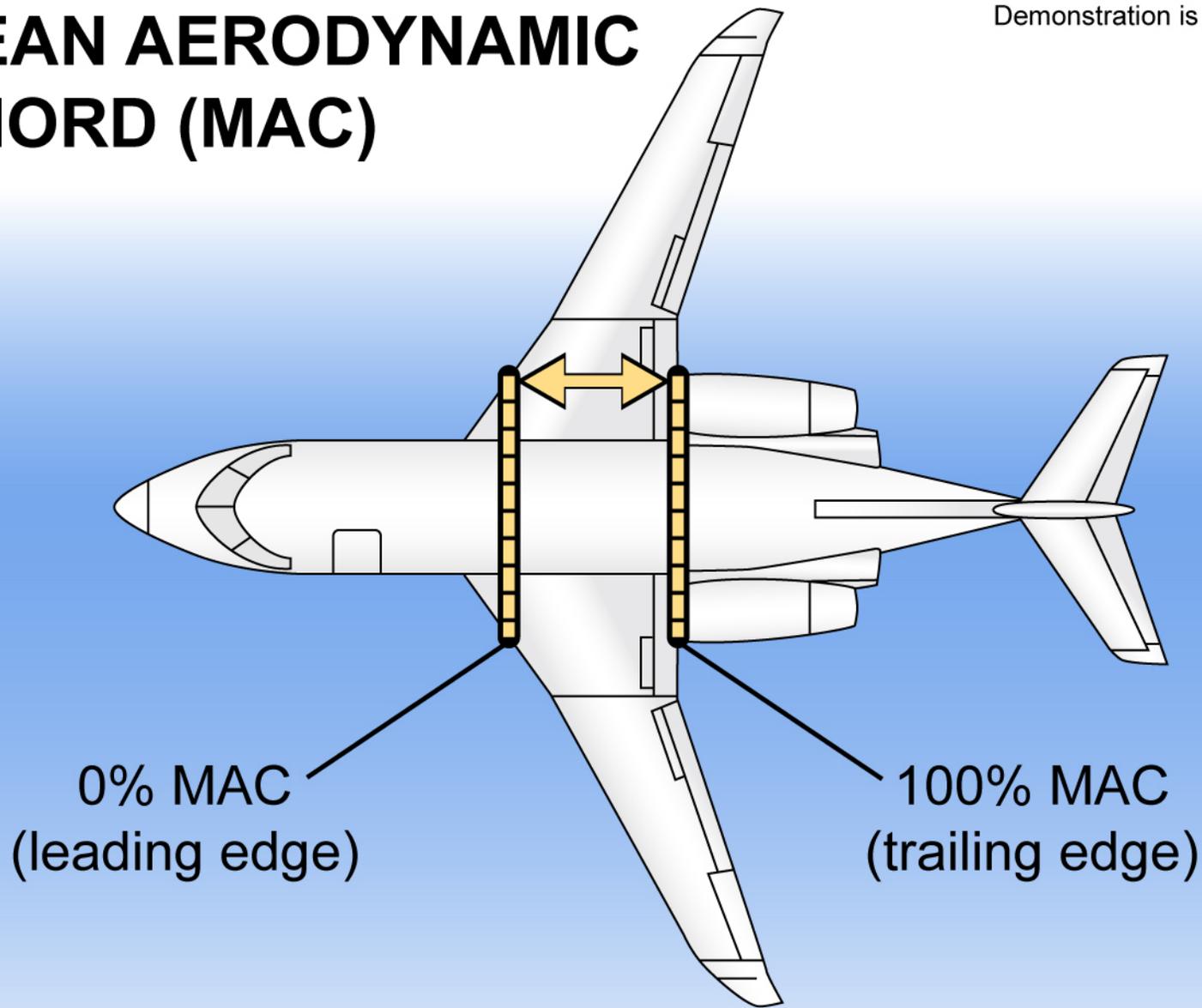
MEAN AERODYNAMIC CHORD (MAC)

Demonstration is not to scale



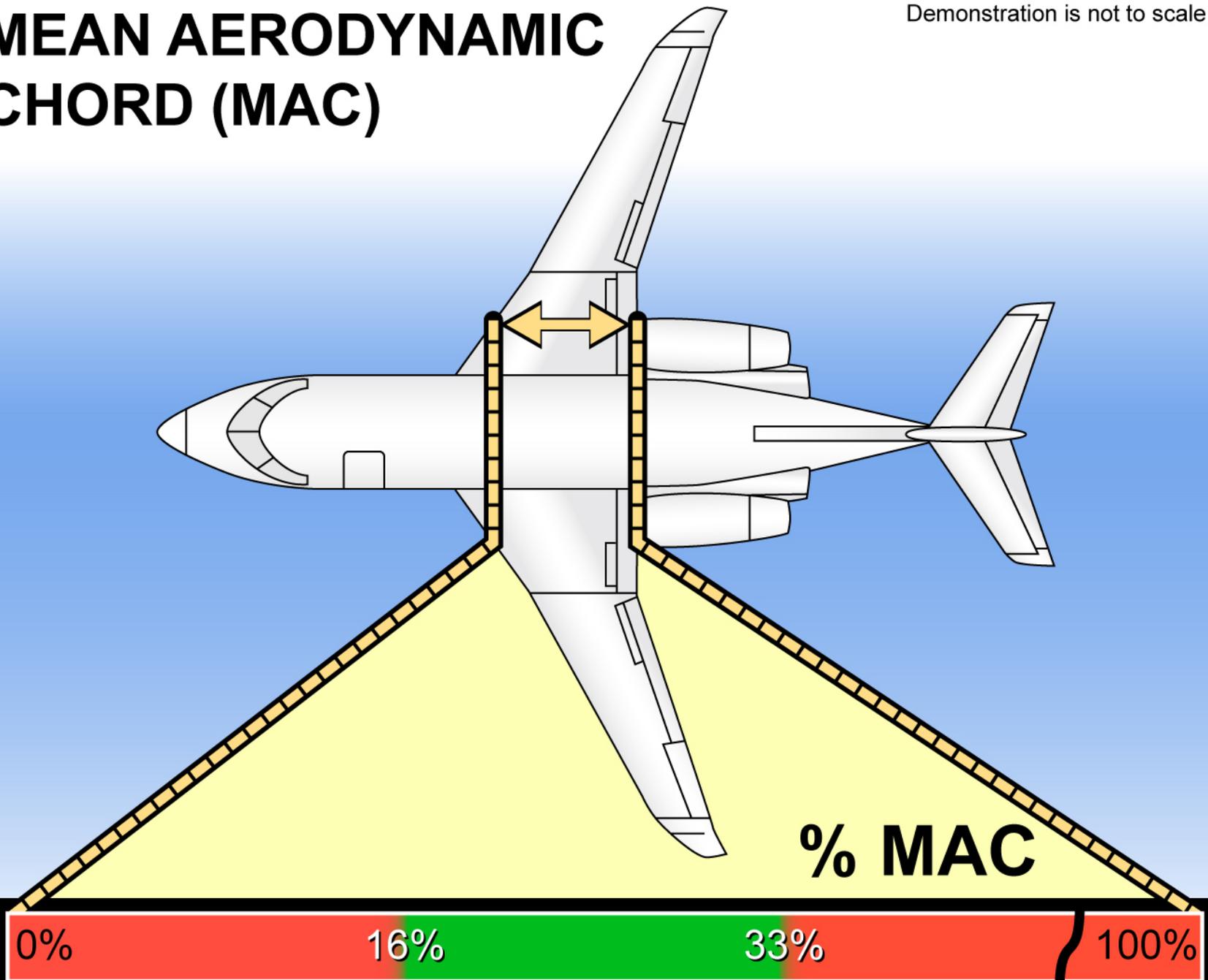
MEAN AERODYNAMIC CHORD (MAC)

Demonstration is not to scale



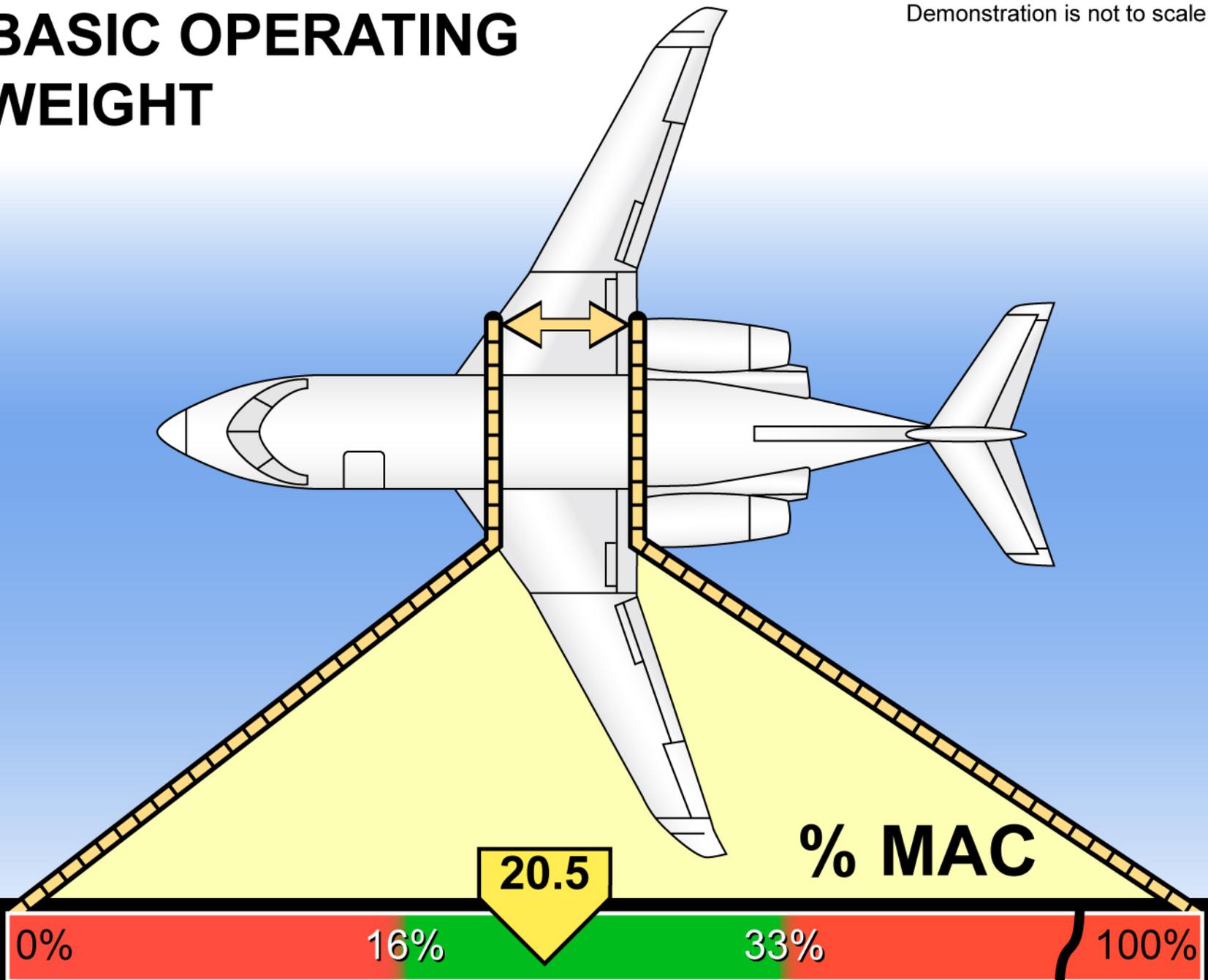
MEAN AERODYNAMIC CHORD (MAC)

Demonstration is not to scale



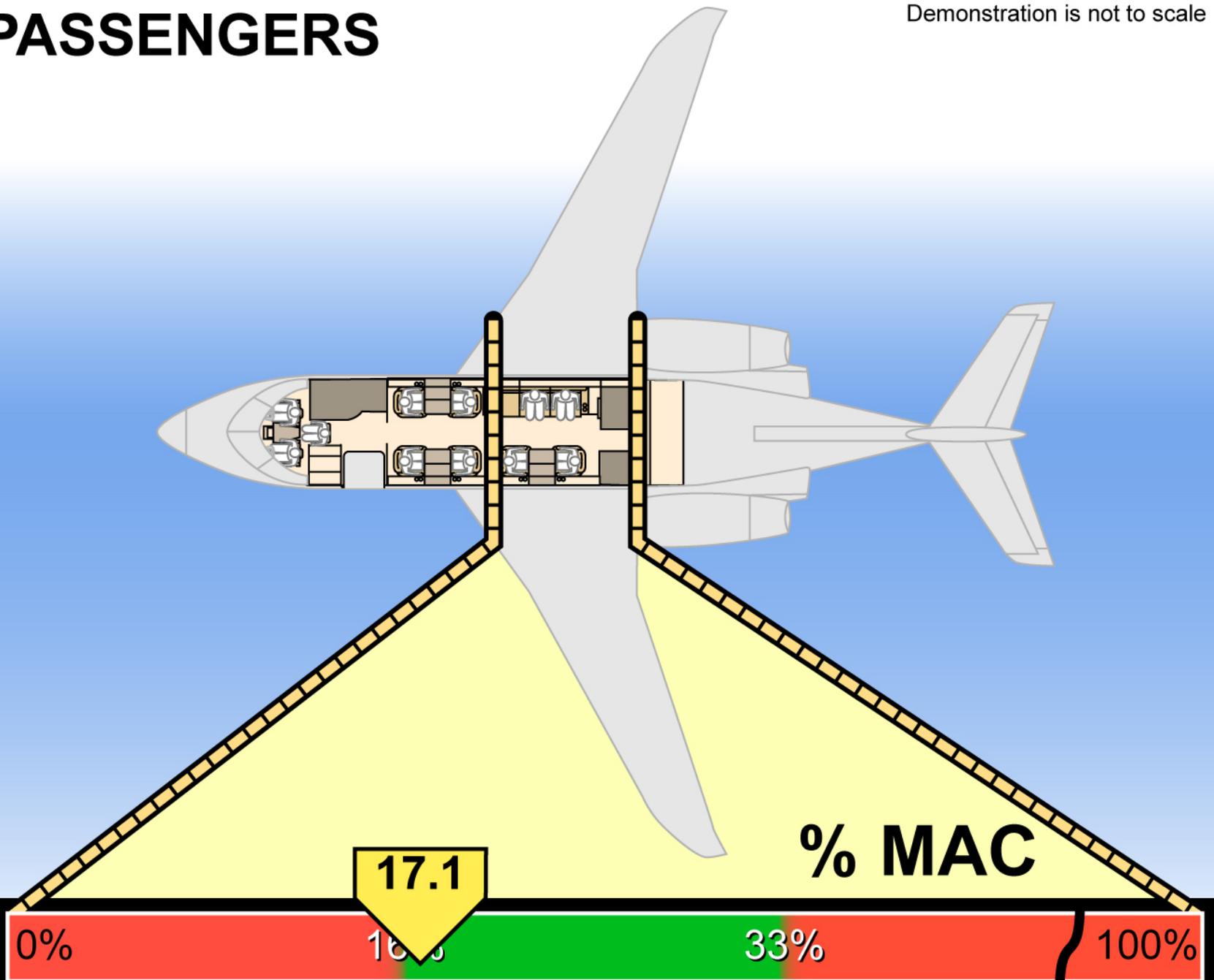
BASIC OPERATING WEIGHT

Demonstration is not to scale



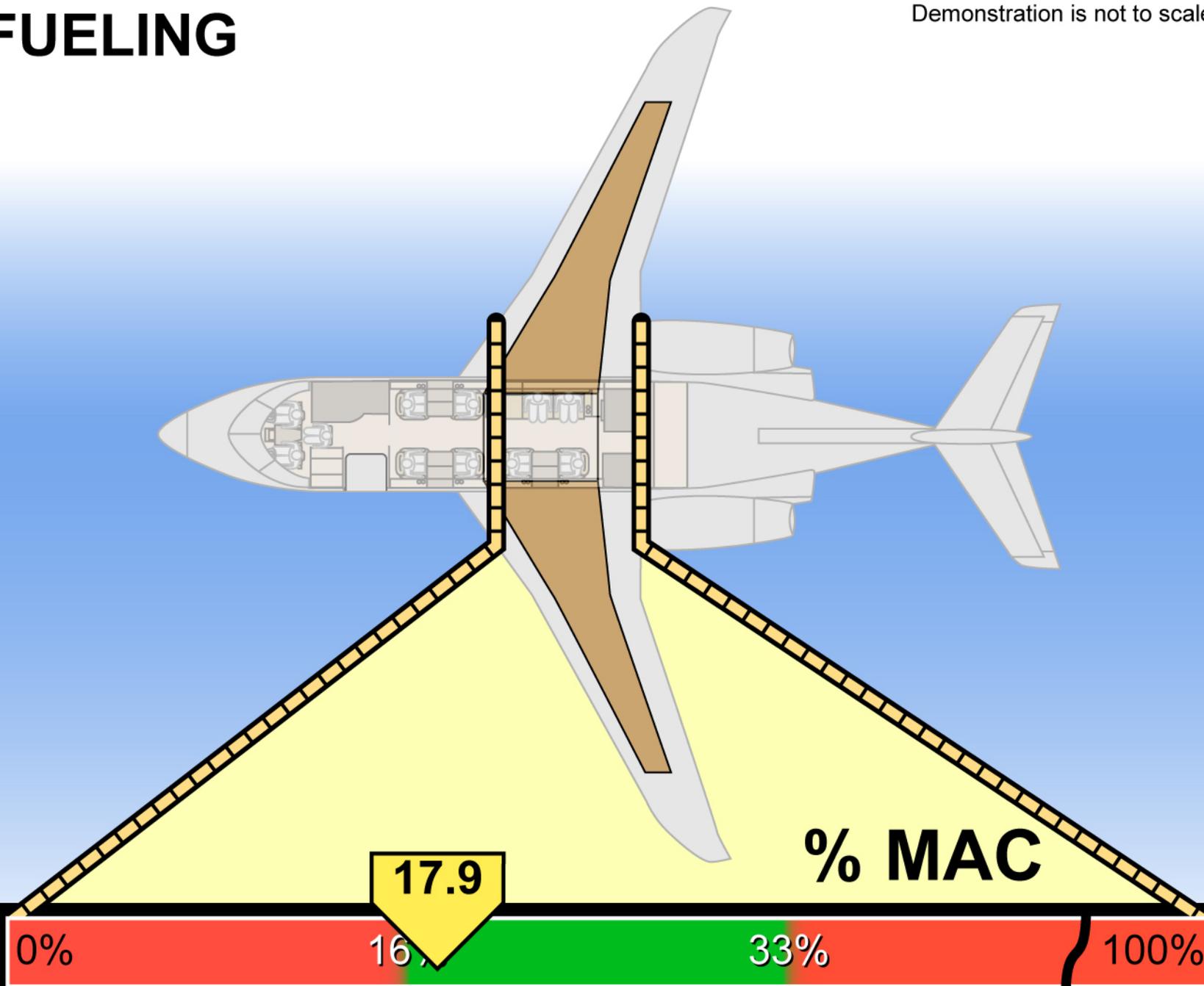
PASSENGERS

Demonstration is not to scale



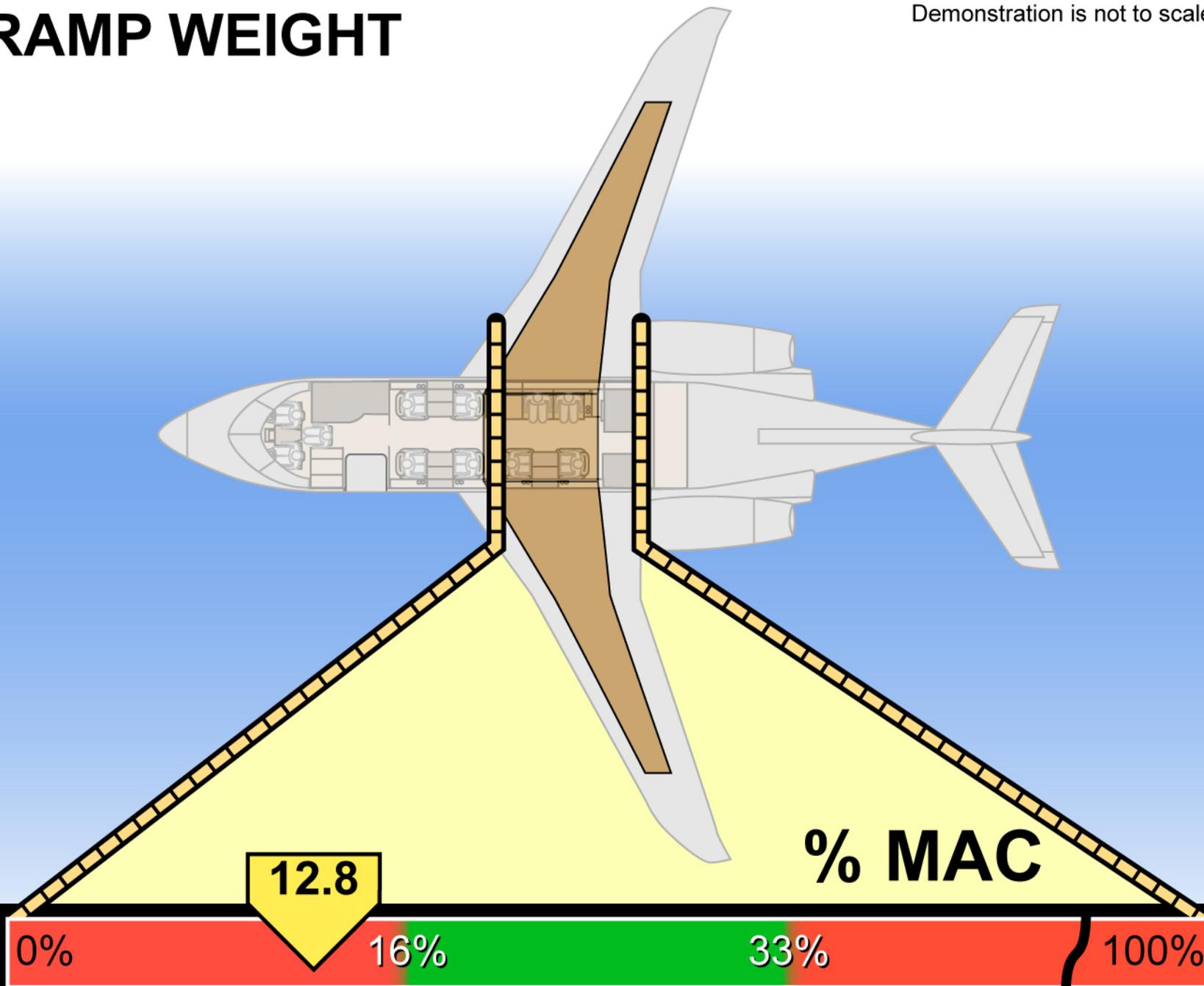
FUELING

Demonstration is not to scale



RAMP WEIGHT

Demonstration is not to scale





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