

**AirChair**



# Electronic Code of Federal Regulations

e-CFR data is current as of October 1, 2019

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Title 14: Aeronautics and Space

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## **PART 382—NONDISCRIMINATION ON THE BASIS OF DISABILITY IN AIR TRAVEL**

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### **§382.65 What are the requirements concerning on-board wheelchairs?**

(a) As a carrier, you must equip aircraft that have more than 60 passenger seats, and that have an accessible lavatory (whether or not having such a lavatory is required by §382.63 of this Part) with an on-board wheelchair. The Aerospatiale/Aeritalia ATR-72 and the British Aerospace Advanced Turboprop (ATP), in configurations having between 60 and 70 passenger seats, are exempt from this requirement.

(b) If a passenger asks you to provide an on-board wheelchair on a particular flight, you must provide it if the aircraft being used for the flight has more than 60 passenger seats, even if the aircraft does not have an accessible lavatory.

(1) The basis of the passenger's request must be that he or she can use an inaccessible lavatory but cannot reach it from a seat without using an on-board wheelchair.

(2) You may require the passenger to provide the advance notice specified in §382.27 to receive this service.

Source: [transportation.gov](https://www.transportation.gov)



**\$2340** initially



**\$2340** initially

**13.3 kg** on average



**\$2340** initially

**13.3 kg** on average

**\$930** annual fuel cost





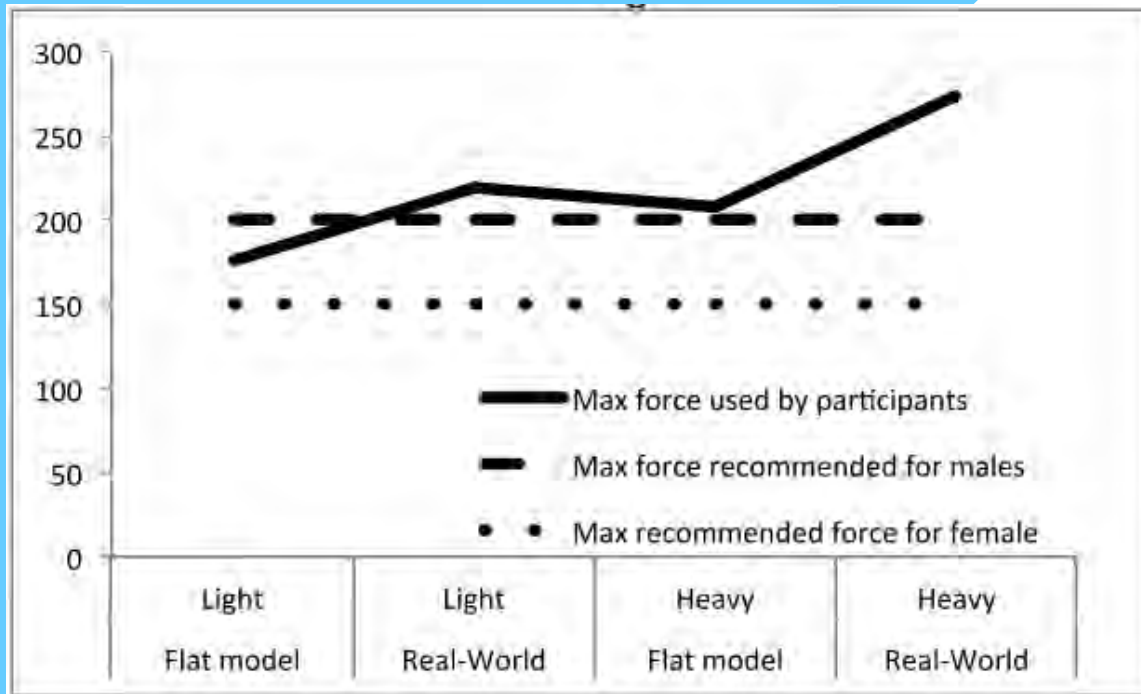
**\$2340** initially

**13.3 kg** on average

**\$930** annual fuel cost

**\$40 million** market





“Almost all the forces required to complete the task exceed the **Health and Safety Executive guidelines**”

- Holloway, CSM, “Time and force required for attendants boarding wheelchair users onto aircraft”



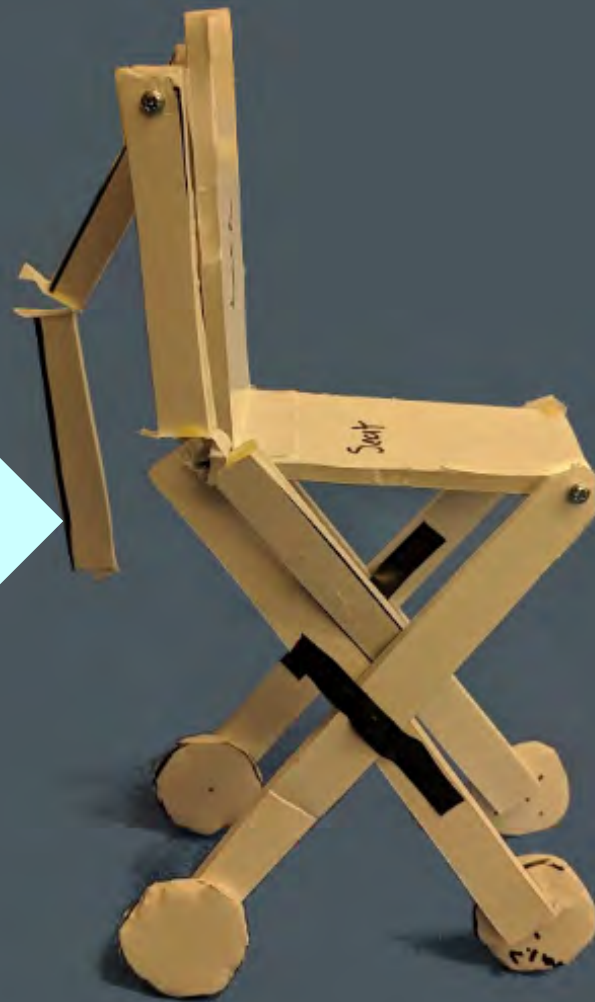
# PROBLEM

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Airlines are required to carry wheelchairs onboard and provide accessibility services, but existing chairs are large, heavy, and difficult for the cabin crew to use.



# AirChair







flight attendant  
friendly





flight attendant  
friendly



fits in overhead bin





flight attendant  
friendly



fits in overhead bin



lightweight