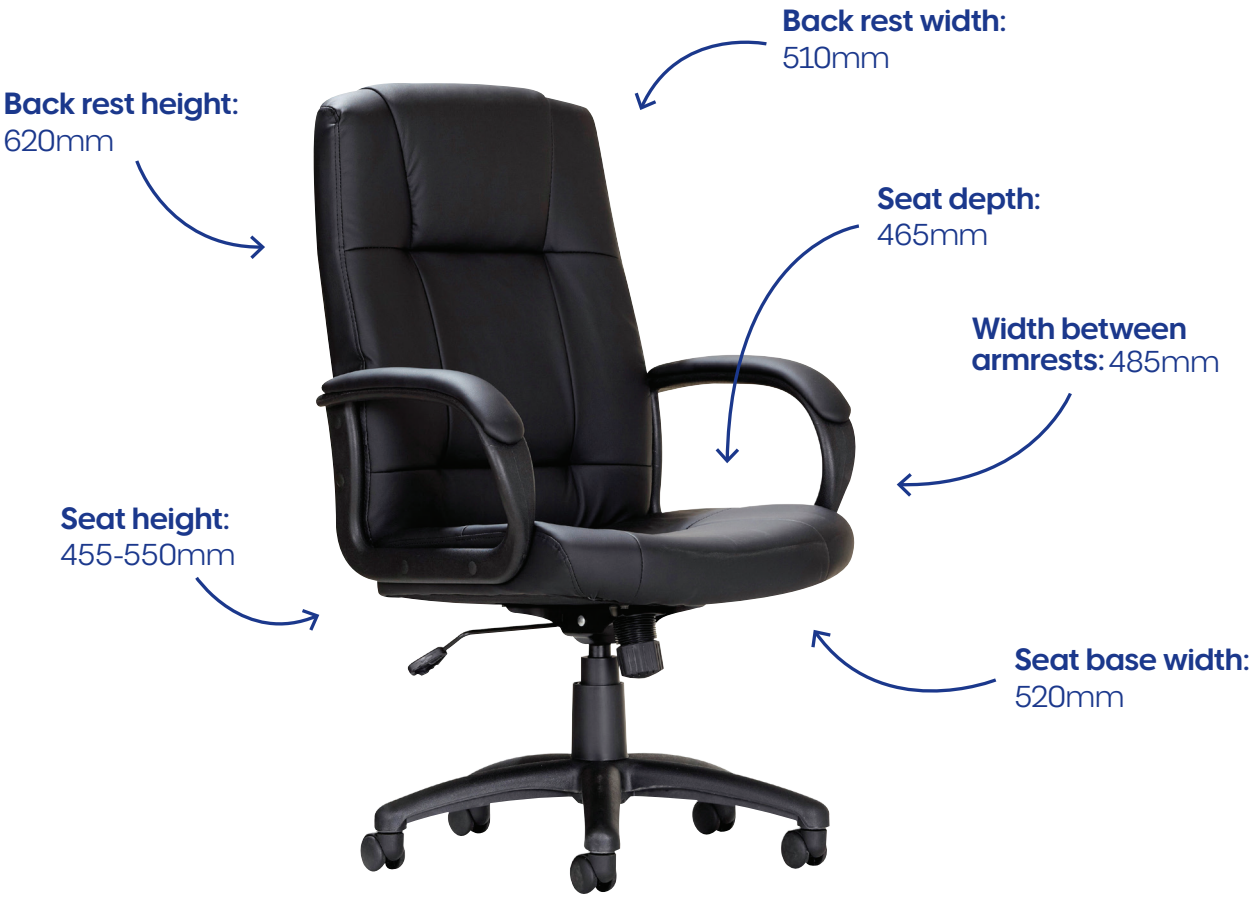
Ergonomic Assessment

By Brendan Grimes
Certified Professional Ergonomist

J.Burrows Archer Chair

JBARCHHBBK



Suited for people 169cm or taller.

*provided seat base measurement is met. See page 2 for guidance.

ADJUSTABLE CHAIR TILT

PADDED ARMRESTS

120KG
WEIGHT CAPACITY

Summary

Suitable for short-term use (no more than 2 hours) and in a boardroom or waiting room. Not suitable for computer work. Seat height adjustment allows for people about 169cm (5'6") or taller, provided seat base measurement is met*. Fixed armrests would hinder smaller males and females with elbows less than 210mm above the seat. The chair is well finished and has good fittings. Not suitable for commercial use.

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AS/NZS 4438:1997 compliance[1] – Yes
AFRDI Rating[2] – Not rated for commercial use

Posture Support

Generous-sized backrests and base offer only basic comfort and support for short periods. Foam cushioning is adequate and 80mm thick. Armrests are fixed in height, and there is no lumbar adjustment, so it may not provide all users with comfort and support.

Adjustability

The seat height can be adjusted from 455mm to 550mm. Chair tilt has one setting for locking in place and has tilt tension. Armrests are fixed height at 210mm. There is no vertical adjustment of the backrest. Controls are easy to operate and accessible whilst sitting in the seat.

Stability

It appears reasonably strong and stable, but there is some rocking back and forward. This chair has a 120kg weight capacity, which means it is capable of withstanding heavier individuals. The chair is on a 5-castor hard plastic and steel pedestal base and pillar, which is strong and stable.

Upholstery, Covering, Corners and Edges

The seat base is a mesh fabric, and the backrest is plastic mesh. The chair is well upholstered and finished. The corners and edges are well-rounded and smooth. There are no sharp projections, sharp edges or rough surfaces evident. Edges accessible to users are rounded with a minimum radius of 2mm. The ends and feet of tubular metal components are capped/closed and finished smoothly. It appears to have adequate air/water vapour permeability, except where non-permeability is required for hygiene or ease of cleaning. The foam thickness in the seat is good.

Dimensional Requirements / Anthropometrics[3]

Seat height adjustment from 455-550mm allows for people about 169cm (5'6") or taller. Seat depth is 465mm, suitable for people with a measurement of 505mm or more from their buttocks to the back of the knee (see note on Seat Depth measurement below). The width of the seat base is 520mm, and the width between the armrests is 485mm, essentially accommodating the whole population (at least 95%). Armrests would not be suitable for small males and females as they would push their shoulders up. The backrest height at 620mm and 510mm wide is a medium-high backrest, suitable for most of the population.

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Seat Depth
While seated, measure from your buttock to the back of your knee, then subtract 40mm.

1 AS/NZS 4438:1997 Height-adjustable swivel chairs: Relevant standard for adjustable swivel office chairs. 2 AFRDI Rating: Rated by Australasian Furnishing Research & Development Institute Limited, independent tester/certifier of furniture products. Blue Tick Certification ensures stability, durability, ergonomic dimensions, safety and strength and ignition mitigation sources. Green Tick Certification means material is sustainably sourced, requires low operating energy, waste is minimised during production and the ability to recycle components at end of life of product is maximised. 3 Anthropometrics: Based on data from S Pheasant, Bodyspace, Anthropometry, Ergonomics and Design, 1988; World Engineering Anthropometry Resource.