



# woods furniture

Student Seating





# Optimal Height Guide

The colour coding system of violet, yellow, red, green, blue and brown provides easy recognition of the appropriate furniture sizes. Through this system all students can be properly seated for optimal ergonomic/work performance.

## Optimal chair and desk heights

Woods observes the ISO 5970 and EN 1729 Standards. In these Standards the stature height, approximate school year level and seat/desk heights have been correlated and the six chair and desk heights have been determined.

The decisive factor is regular checking of the size of the individual, as the heights of students in one classroom vary considerably due to their individual development.

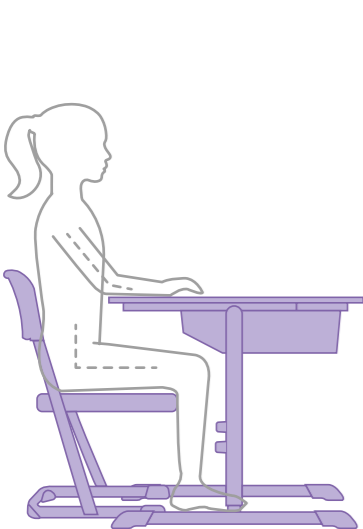
Appropriately sized furniture is essential for optimal concentration levels, growth and skeletal development in adolescent bodies.

When a desk is too low, the child is forced to work with a bent back which strains the spine and supporting muscles. On the other hand a desk that is too high causes the shoulders to be raised and creates muscle tightness and pain.

The height of the desk top is best determined after the correct seat height is chosen. The appropriate chair height ideally occurs when the front edge of the seat is at the same level as the point of flexion at the back of the knee. Ergonomists refer to this as the popliteal height.

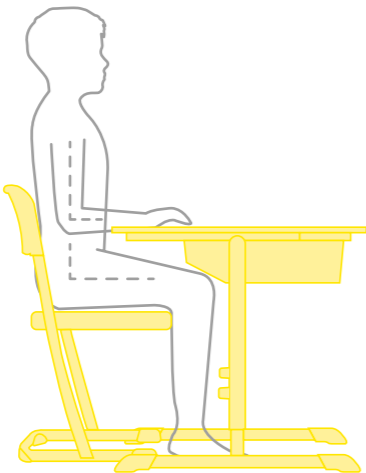
When sitting at the desk, the arms should be bent at 90 degrees. The desk top is correct when the tips of the elbows are one or two centimetres below the horizontal desk top.

There is no more important furniture than the ones we ask our children to sit at.



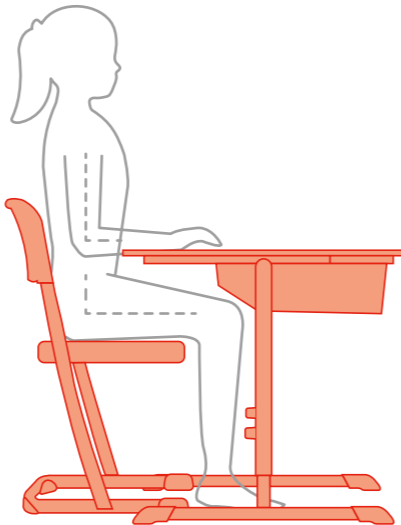
Pre School and Prep

Chair Height	Desk Height
300	525



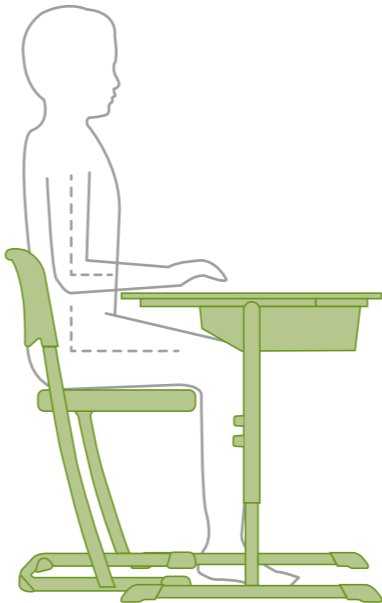
Prep and Years 1 and 2

Chair Height	Desk Height
340	580



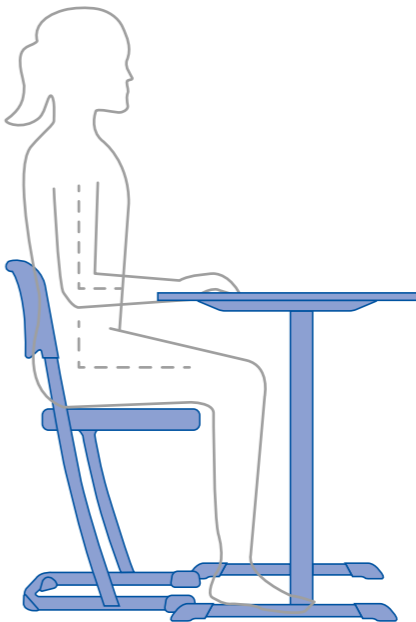
Years 3 and 4

Chair Height	Desk Height
380	635



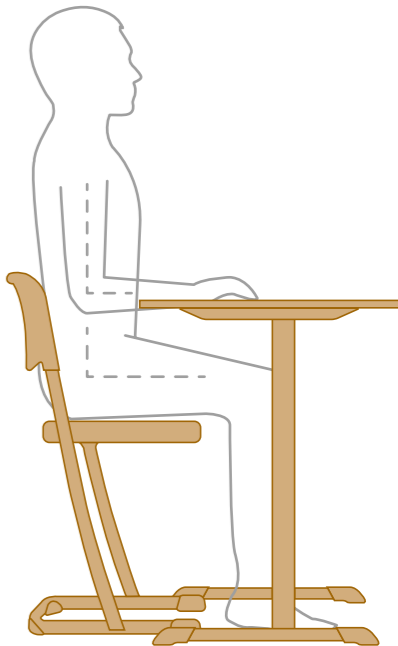
Years 5 and 6

Chair Height	Desk Height
420	695



Secondary and Tertiary

Chair Height	Desk Height
460	750



Senior Secondary and Tertiary

Chair Height	Desk Height	Suits stature height of +183cm
500	805	

# Optimal Chair Design

School chairs present unique design challenges. Not only do they need to be lightweight, virtually ‘bomb-proof’ and stackable, but each chair needs to accommodate students in a range of shapes and sizes performing a mixture of tasks in a variety of postures.

For example, students might sit upright when reading, using a computer keyboard or doing lab work, sit forward when writing or drawing or sit back when attending to instruction from the front of the classroom. Sitting aids the performance of these fine motor or perceptual tasks by providing greater stability. Also less effort is required, as

opposed to standing postures, while still allowing free movement of the arms and hands. Sitting, however, also has its drawbacks. The normal curvature of the lower back, as occurs in standing, is often reduced or reversed in sitting. The hips are flexed, the pelvis rotates backwards and the lower back

becomes more rounded. If the knees are straightened, the hamstrings at the back of the thigh are stretched and the tendency to rotate the pelvis and round the lower back is increased. This tendency towards a slumped posture is increased even further when hamstring flexibility is reduced during periods of rapid

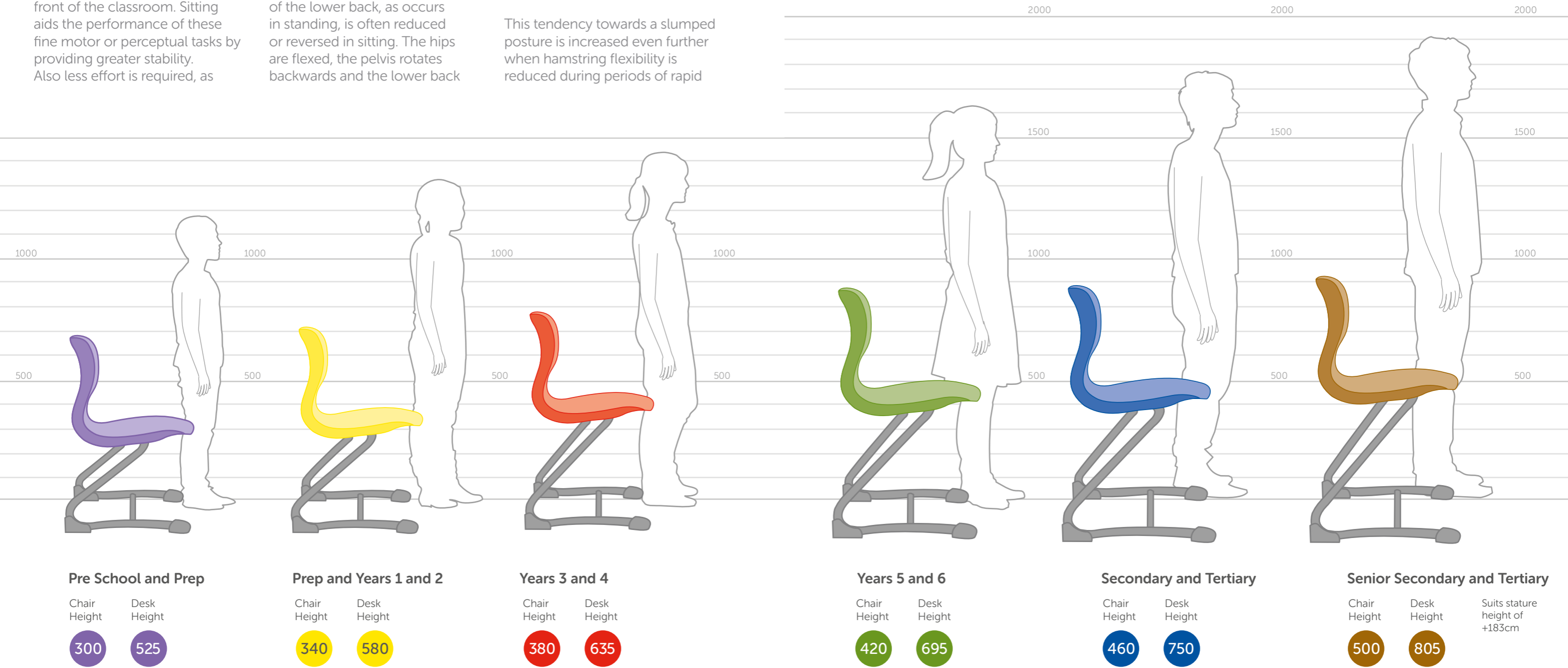
growth or if the chair is too small for the student. The most common design feature in chairs for maintaining spinal curvatures is a backrest or a lumbar support. If the backrest acts in isolation applying a forward pressure on the lower back, the person will simply slide forward on the seat with no change in posture.

For the backrest to be useful, there must be a second force to prevent this sliding. The second force can come from the contour or surface of the seat, pressure from the feet on the floor or if the seat is reclined, gravity. Unfortunately no matter how much normal spinal curvature is encouraged, the very stability that makes sitting useful also results

in positions being sustained for longer than would be ideal. Good sitting is not a single correct posture but rather encompasses a range of postures that enable an individual to perform their activities with comfort and efficiency. **Neil Tuttle**  
MSc, MPhil – Physiotherapist – Lecturer, Griffith University.

## Optimal Height Guide

The colour coding system of violet, yellow, red, green, blue and brown provides easy recognition of the appropriate furniture sizes. Through this system all students can be properly seated for optimal ergonomic work performance.



# PantoFlex™

German designed ergo-dynamic student seating – a design to enhance the quality of life. Designed by one of the world’s greatest furniture designers, Verner Panton.

Today children sit down so much that it influences their lives and well-being, which is why attention should be given to ‘the school as a place of work’.

The design breakthrough of the body moulded shell assists the developing musculo-skeletal system in children and adolescents.

The PantoFlex™ chair promotes proper posture, better blood and oxygen circulation, correct muscle position and increased attention span allowing a variety of sitting positions.

Airflows through the double skin of the unique body moulded shell giving a cushioning effect and also long-term seating comfort in all climates.

The high tensile frame body moulded shell, fastening components and glides have been tested to and exceeded ten compressions of 1800N of downward force and 200,000 compressions of 950N of downward force.

- Features**
- Frame** – The high tensile steel frame gives the chair its unique flexing and movement absorbing properties and superior strength.
- Stacking** – Stack to a maximum of 5 high.
- Trolley** – The PantoTrolley is designed to move 12 chairs.

- Height Dimensions**
- Fixed chair heights to;
- 300 340 380 420 460 500

- Colours**
- For finish options, refer to page 48
- Avocado
  - Cobalt
  - Midnight
  - Mist
  - Pumpkin
  - Raspberry
  - Sky

- Foot Option**
- Plastic glides for carpet floors
  - 2 Component glides for linoleum, timber and vinyl floors



# PantoMove 3D™

The body needs movement to keep the brain and muscles supplied with blood. This smart chair does not restrict movement, it encourages it positively.

- Features**
- Frame** – The rocking and swivel movement of the chair encourages the natural movements of the body

- Height Dimensions**
- Junior – 370mm to 455mm
  - Senior – 450mm to 570mm

- Colours**
- For finish options, refer to page 48
- Avocado
  - Cobalt
  - Midnight
  - Mist
  - Pumpkin
  - Raspberry
  - Sky
- Foot Option**
- 2 Component Glide
  - Castor

Ergo-Dynamic gas lift swivel chairs designed to optimally adapt to the natural need to sit and move.



# Panto™ Drafting Stool

Comes with an aluminum 5-way base, plastic covered gas-filled telescopic strut and adjustable foot ring with black anti-slip coating.

- Features**
- Frame** – The rocking and swivel movement of the chair encourages the natural movements of the body

- Height Dimensions**
- 530mm to 730mm

- Colours**
- For finish options, refer to page 48
- Avocado
  - Cobalt
  - Midnight
  - Mist
  - Pumpkin
  - Raspberry
  - Sky
- Foot Option**
- 2 Component Glide
  - Castor



# Hokki Stool

An ergo-dynamic stool designed to improve the motor and musculo-skeletal development of growing children.

German designed ergo-dynamic stools for children – super tough, lightweight and highly portable. We know that the benefit of ergo-dynamic design for children is proven.

This design absorbs and encourages movement while at the same time improving the attention span of the child while being engaged in the learning process.

- The inner organs of the body are opened up not scrunched and restricted.
- The muscles supporting the lumbar spine are passively exercised and strengthened.
- More oxygen flows through the body and the brain.
- The muscles of the abdominal core are passively tightened and relaxed as the child moves on the stool.

The Hokki is made from light-weight, super tough polypropylene. Wipe down to clean the top and sides. Available in 4 lively colours to add life and fun to the classroom.

100% recyclable UV stable materials give the Hokki an incredible lifespan. The fluted design of the top is designed for portability and features a non-slip seat pad.

**Features**  
The Hokki Stool achieves its Ero-Dynamic movement through the convex shape of the base.

**Height Dimensions**  
310mm  
380mm  
460mm  
520mm

**Colours**  
For finish options, refer to page 48  
– Cobalt  
– Pumpkin  
– Raspberry  
– Midnight (520mm only)



# B1 Chair

What’s good for the body is good for the mind. The B1 Chair offers a completely new freedom of sitting which encourages the user’s natural movement.

The importance of movement to improved health and performance simply cannot be overstated. The double cantilever principle allows the chair to simultaneously shift forward and lean back. The chair’s independent, free mobility action creates dynamic

seating - sitting that is both comfortable and ergonomic. The seat and backrest are made from fully recyclable, structured polypropylene - a particularly hard wearing, scratch-resistant and environmentally friendly

material. The seat and backrest are double-walled and offer a comfortable air-cushion effect.

**Features**  
**Frame** – Double cantilever for dynamic seating  
**Seat** – Double-walled for a comfortable air-cushion effect

**Height Dimensions**  
Fixed chair heights to:  
460 500

**Colours**  
For finish options, refer to page 48  
– Cobalt  
– Lime  
– Midnight  
– Orange  
– Raspberry

**Foot Option**  
2 Component  
Glides, a universal glide to suit all types of flooring.



# LupoGlide™

The unique design of the LupoGlide™ seat and back promotes effective student posture.

German engineering has produced a super strong student chair which has proven itself time and time again in high attrition areas.

This strength of the LupoGlide™ will amaze you.

Air flows through the double skin of the seat giving a cushioning effect and also long term seating comfort in all climates.

2mm wall thickness 'U' shaped skid and seat support of powder-coated steel oval tube ensures unsurpassed frame strength

Not only a brilliant classroom chair, but also perfect for large scale deployment and pick-up with its purpose designed trolley system. The LupoTrolley is designed to move 8 chairs.

- Features**
- Stacking** – Stack to a maximum of 8 high.
  - Trolley** – The LupoTrolley is designed to move 8 chairs.

- Height Dimensions**  
Fixed chair heights to;
- 300
  - 340
  - 380
  - 420
  - 460
  - 500

- Colours**  
For finish options, refer to page 48
- Midnight
  - Mist
- Foot Option**
- Plastic glides for carpet floors
  - 2 Component glides for linoleum, timber and vinyl floors



# Lupo Art Stool

A stool that provides ultimate comfort through the design of its double walled, air cushion polypropylene seat. The super strong frame and unique seat fixing method means this stool is a great solution for high attrition applications.

- Features**
- Storage** – On desk storage.
  - Stability** – Highly stable design resists rocking forward and back.

- Height Dimensions**
- 500mm
  - 550mm
  - 600mm
  - 650mm
  - 700mm
  - 750mm

- Colours**  
For finish options, refer to page 48
- Midnight
- Foot Option**
- 2 Component glides for linoleum, timber and vinyl floors



# Lupo Science Stool

The Lupo Science Stool comes with an added back to provide ideal comfort for use in science and technology areas.

- Features**
- Storage** – On desk storage.
  - Stacking** – Stack to a maximum of 3 high.
  - Stability** – Highly stable design resists rocking forward and back.

- Height Dimensions**
- 550mm
  - 600mm
  - 650mm
  - 700mm

- Colours**  
For finish options, refer to page 48
- Midnight
  - Mist
- Foot Option**
- 2 Component glides for linoleum, timber and vinyl floors



# DuraPos™

A design icon for student chairs, the DuraPos™ has stood the test of time in Australian schools and is now exported around the world.

The DuraPos™ chairs have the option of a linking system that allows them to stack when not in use. Suitable for halls and conferences.

Seats and backs are available in polypropylene or upholstered. Standard back and high back options available.

- Features**  
**Stacking** – Stack to a maximum of 10 high.  
**Linking** – Optional linking system.

- Height Dimensions**  
Fixed chair heights to;
- 300
  - 340
  - 380
  - 420
  - 460
  - 500

- Colours**  
For finish options, refer to page 48
- Avocado
  - Bluegum
  - Cobalt
  - Midnight
  - Mist
  - Pacific
  - Plum
  - Pumpkin
  - Raspberry
- Foot Option**
- Standard (black) for carpet floors
  - Non-marking (white) for timber floors.



# DuraPos™ High Back

Adaptable seating for classrooms, libraries, cafeterias and staffrooms. Enjoy even more comfort and support for students at senior secondary and tertiary levels.

- Features**  
**Stacking** – Stack to a maximum of 10 high.

- Height Dimensions**  
Fixed chair heights to;
- 460
  - 500

- Colours**  
For finish options, refer to page 48
- Bluegum
  - Cobalt
  - Midnight
  - Mist
  - Pacific
  - Plum
- Foot Option**
- Standard (black) for carpet floors
  - Non-marking (white) for timber floors.



# DuraPos™ Options

The versatility of the DuraPos™ chair lends itself to the addition of a removable tablet arm, book holder and bag holder. Ideal for use in exams, lectures, seminars or halls.

- Features**  
**Stacking** – Stack to a maximum of 10 high when tablet and book/bag holders are removed.

- Height Dimensions**  
Fixed chair heights to;
- 420
  - 460
  - 500

- Colours**  
For finish options, refer to page 48
- Bluegum
  - Cobalt
  - Midnight
  - Mist
  - Pacific
  - Plum
- Accessories**
- Bag Holder
  - Book Holder
  - Tablet

Flip tablet for easy access



# DuraPos™ Gas-Lift Swivel Chair

A simple, yet strong chair designed for school computer use. Adjustable to suit the height of individual students, it's also available as a junior swivel chair to promote correct computer posture at an early age.



**Height Dimensions**  
Junior – 355mm to 445mm  
Senior – 390mm to 520mm

**Colours**  
For finish options, refer to page 48  
– Avocado  
– Bluegum  
– Cobalt  
– Midnight  
– Mist  
– Pacific  
– Plum  
– Pumpkin  
– Raspberry

**Foot Option**  
– Glide  
– Castor

# DuraPos™ Art Stool

The DuraPos™ Art Stool is ideal for art areas, workshops and music rooms. The 3 sided foot rail gives excellent leg support and frame strength.



**Features**  
**Stacking** – Stack to a maximum of 7 high.  
**Stability** – Maximum stability through wide footprint resists rocking forward and back.  
**Options**  
**Finishes** – Seat also available in polished or upholstered finishes.

**Height Dimensions**  
500mm  
550mm  
600mm  
650mm  
700mm  
750mm

**Colours**  
For finish options, refer to page 48  
– Avocado  
– Bluegum  
– Cobalt  
– Midnight  
– Mist  
– Pacific  
– Plum  
– Pumpkin  
– Raspberry  
– Polished Ply  
– Vinyl

**Foot Option**  
– Standard (black) for carpet floors  
– Non-marking (white) for timber floors.

# DuraPos™ Drafting Stool

The DuraPos™ Chair is available as a drafting stool. The extra high gas-lift fitted with an adjustable foot ring makes this the ideal stool for benches, sit/stand tables and drafting tables.



**Height Dimensions**  
550mm to 810mm

**Colours**  
For finish options, refer to page 48  
– Avocado  
– Bluegum  
– Cobalt  
– Midnight  
– Mist  
– Pacific  
– Plum  
– Pumpkin  
– Raspberry

**Foot Option**  
– Glide  
– Castor

# DuraPos™ Science Stool

Designed to give maximum stability and correct postural position, the DuraPos™ Science Stool is ideal for use in science and technology areas particularly when used with bench height work surfaces.



**Features**  
**Stacking** – Stack to a maximum of 6 high.  
**Stability** – Maximum stability through wide footprint resists rocking forward and back.  
**Options**  
**Finishes** – Seat and backrest available in upholstered finishes.

**Height Dimensions**  
550mm  
600mm  
650mm  
700mm  
750mm

**Colours**  
For finish options, refer to page 48  
– Avocado  
– Bluegum  
– Cobalt  
– Midnight  
– Mist  
– Pacific  
– Plum  
– Pumpkin  
– Raspberry

**Foot Option**  
– Standard (black) for carpet floors  
– Non-marking (white) for timber floors.

# Rata Stool

A multi-purpose stool which is particularly suited to the modern collaborative learning environment. Continuously height adjustable, the Rata Stool can be used by both students and teachers.

Features	Height Dimensions	Options	Foot Option
Continuously height adjustable	Standard - 390mm to 520mm Drafting - 550mm to 810mm	– Fabric Seat – Polished Timber Seat – Drafting version also available (550mm to 810mm)	– Glide – Castor



# Compass Linking Chair

This versatile chair has a simple, extremely effective linking system. All components are fully recyclable.

Features	Height Dimensions	Options	Glides
<b>Stacking</b> – Plastic Shell is stackable to a maximum of 3 high. – Beachwood Shell (without upholstered seat) is stackable to a maximum of 6 high.	Fixed chair height to; <b>460</b>	– Plastic Shell – Beechwood Shell – Upholstered seat – The Compass Trolley is designed to move 6 chairs	2 Component Glides for Linoleum, Carpet and Vinyl Floors



Also available as non linking

# Plastic Finish Options

**Plastic Colours**  
Made from lightweight, super tough polypropylene.

Note. Some colours are product specific. Refer to product pages for availability.



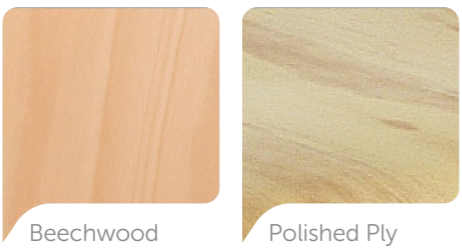
# Steel Frame Options

Durable powder-coated steel frame for strength and support.



# Timber Finish Options

**Timber Colours**  
Beechwood only available for the Compass Chair.  
Polished Ply only available for DuraPos™ Art School.





**woods**  
furniture

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