

# Denver™

Instruction Manual



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All instructions must be read and understood before the product may be used.

## Terminologies

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### Patient

The person sitting in the chair.

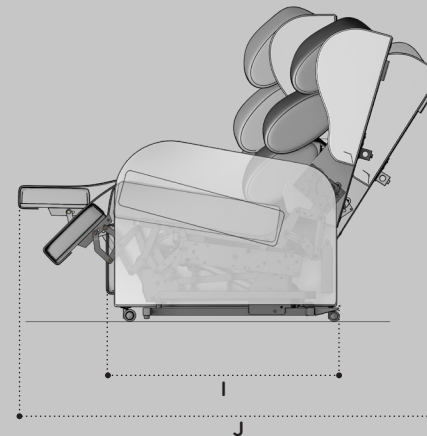
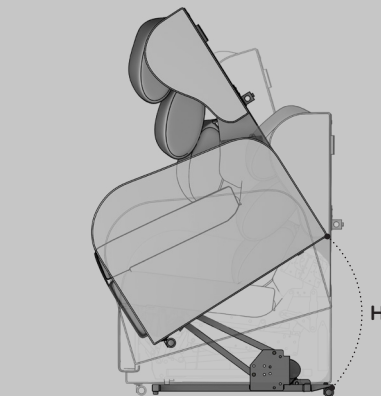
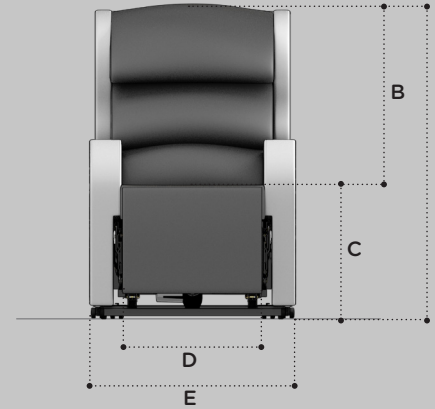
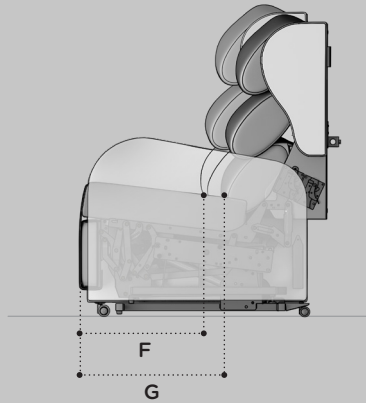
### User

Competent person with responsibility for the persons sitting in the chair as well as the suitability of the equipment for the Patient. The User is responsible for checking the chair for faults during the course of its use.

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### Motor Functions

Back Recline, Tilt in Space,  
Leg Rest Elevation & Rise Function

### Basic Dimensions

A	Overall height	43-60" / 1090-1510mm
B	Back height	28" / 710mm

### Seat Height

C	16" / 400mm (3" Seat Cushion*)
	18" / 450mm (5" Seat Cushion)
	20" / 500mm (75mm Castors)

### Seat Width

D (Seat Widths)	E (Overall Widths)
450mm / 18"	28" / 700mm
500mm / 20"	30" / 750mm

### Seat Depth (Achieved by Adjusting Back Position)

F	Position A	18" / 450mm
G	Position B	22" / 550mm

### Rise Angle

H	Rise Angle	35°
	Tilt in Space Angle	20°

### Overall Length

I	23" / 800mm
J	62" / 1600mm

Chair weight unloaded is  
10.6 Stone / 57 Kg / 125.6 lb.  
Max user weight limit is  
21.5 Stone / 136.5 Kg / 301 lb.

\*Please note when adapting cushion thickness arm height will be affected.

Contact [technical@seatingmatters.com](mailto:technical@seatingmatters.com) for further information.

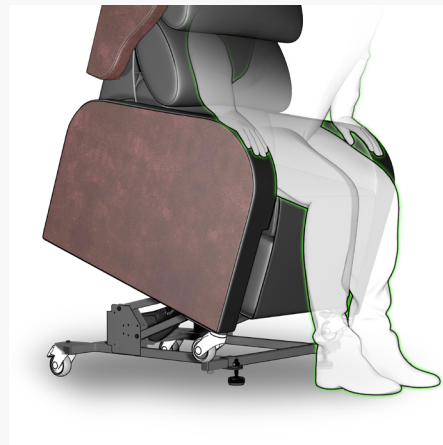
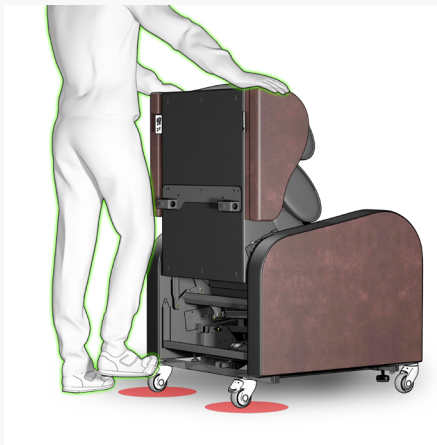
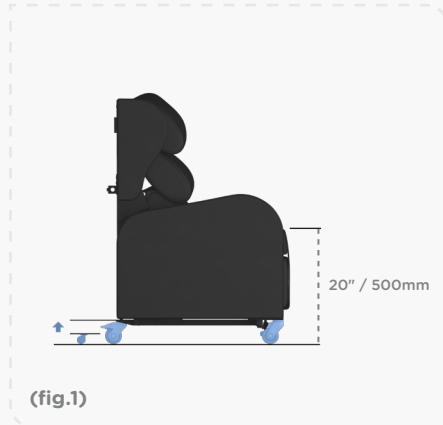
## Braking Castors (20" / 500mm Seat Height Only)

### To lock the chair in position.

75mm castors are used for ease of transport of the chair and are not designed for moving the chair while someone is seated.

To engage the braking castor simply press the pedal with your foot until it clicks in place. **(fig.1a)**.

Braking castors, where provided, must be in the braked position while in use. **(fig.1b)**.

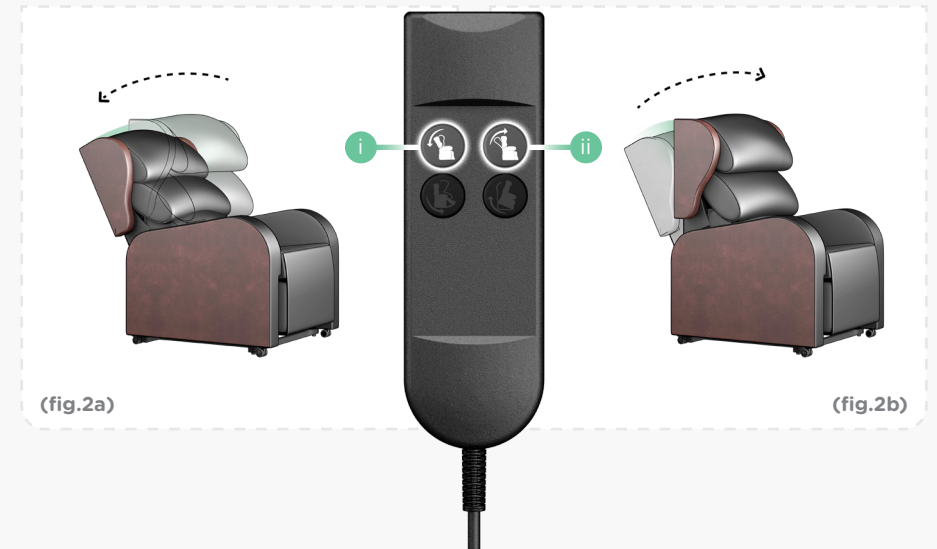


## Back Angle Recline

### To recline the back of the chair **(fig.2)**.

Use the buttons on the handheld remote to move the back of the chair slowly until it is in the required position. Exercise care in case of injury to the patient or damage to the surrounding environment.

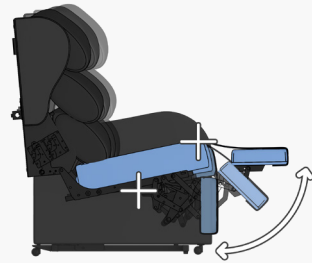
- i. To reclined position **(fig.2a)**.
- ii. To sitting position **(fig.2b)**.



## Leg Elevation & Seat Tilt

To adjust the angle of the leg rest & seat tilt (fig.3).

- i. Leg rest to elevated position & backward seat tilt (fig.3a).
- ii. Leg rest to sitting position & forward seat tilt (fig.3b).



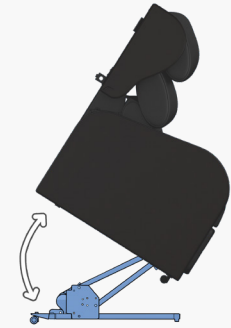
(fig.3)

## Rise Function

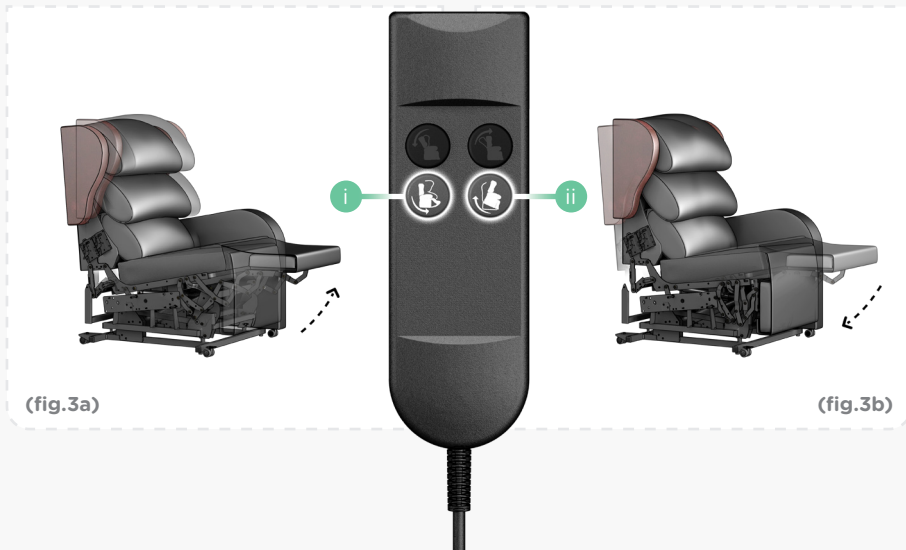
To elevate the seat to a standing position (fig.4).

The seat will rise which will assist the patient to a standing position. The patient should be encouraged to use the armrests during this elevation for stability and balance.

- i. To seated position (fig.4a).
- ii. To standing position (fig.4b).

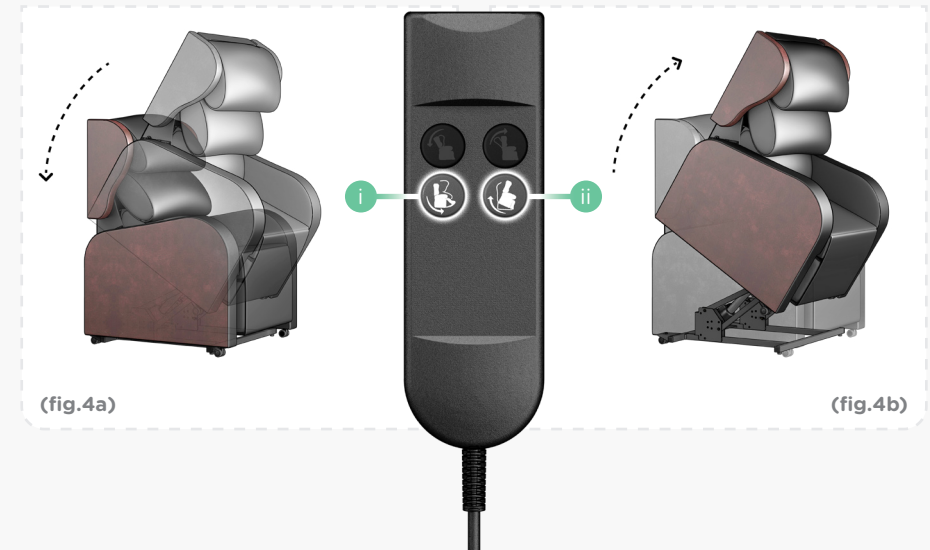


(fig.4)



(fig.3a)

(fig.3b)

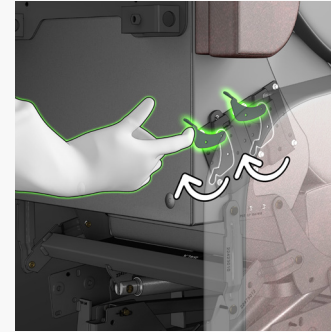


(fig.4a)

(fig.4b)

## Seat Depth Adjustment

To adjust the seat depth of the chair between position A and position B (fig.5).



**(fig.5a)**

To adjust the seat depth, stand at the back of the chair and lift the lock levers at the base of the backrest, situated at both sides.



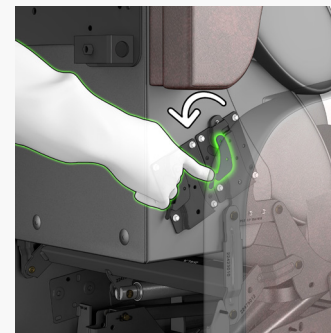
**(fig.5b)**

Lift the back up and out of its hinges.



**(fig.5c)**

Place the back into the desired position.

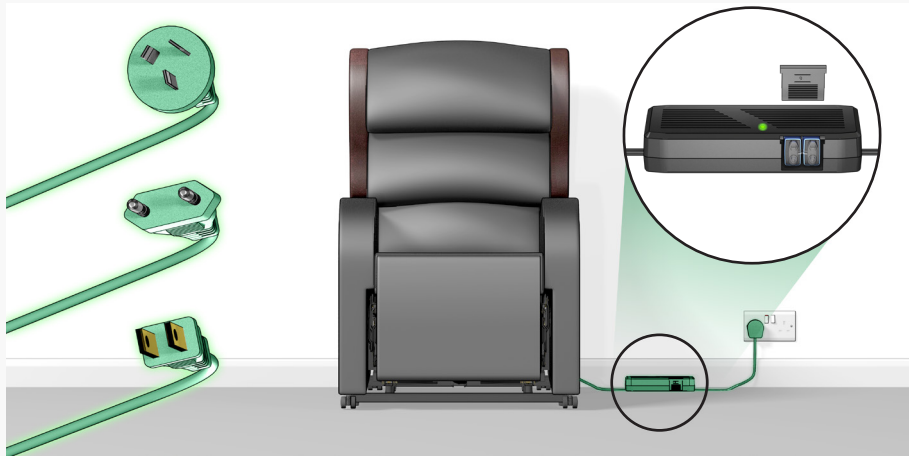


**(fig.5d)**

Close the levers at the base of the backrest to lock the backrest in the new position.

## Powering Your Chair

The chair must be plugged into the mains at all times.



(fig.10a)

In case of a power outage, there are two 9V batteries located in the control box for emergency backup power only. They are not meant to be used for a prolonged period and the chair will operate slower when powered solely by internal batteries.

## Cleaning Instructions



### Cleaning & Maintenance of Upholstery

Your Seating Matters chair is upholstered with dartex multi-stretch material. See image above for how to identify this on your chair.

#### Dartex Multi Stretch Fabric

##### Properties

Dartex is waterproof, has the ability to be wiped clean and has biostatic (anti-mycotic) coatings to provide an impenetrable barrier to virus and bacteria.

#### Cleaning

Superficial dirt may be removed by wiping with a soft cloth moistened with water containing a neutral detergent. More persistent contamination may be treated by wiping with alcohols or turpentine substitute, followed by hot water and detergent.

Routine cleaning and disinfection may be carried out on the coating with hand hot water and a neutral detergent or with a bleach solution (0.1% or 1000 parts per million available chlorine). The material is compatible with the 10,000ppm available chlorine in solution required for the decontamination of blood spills. Excess solution must be removed and the surface thoroughly rinsed and dried prior to reuse or storage.

Proprietary disinfectants may be used provided manufacturer's instructions are followed.

All cleaning agents, and disinfectants, must be thoroughly rinsed off and the item dried after cleaning.

#### What you can use:

1. Warm Soapy Water	Use warm soapy water to wash down your chair. Bear in mind that it is important to dry the surface afterwards.
2. 70% Alcohol	This can be used in line with the manufacturer's guidelines.
3. Bleach	Concentrations of bleach from 1,000ppm to 10,000ppm available chlorine, is likely to be considered effective cleaning.  Use bleach sparingly.

#### Example of Dilution Ratio

The ppm of available chlorine may vary with each different brand of bleach.

Search online for its data sheet and adjust your ratio accordingly to achieve a dilution of approx. 1000ppm of available chlorine.



Water      Bleach

For an in-depth guide to cleaning, please consult our Clinicians Guide to Infection Control, available on our website.



## Assembly, Installation, Warnings & Hazards

- ① A competent person, or User, trained in the use of the chair, who is either a suitably qualified medical professional, or is working under their guidance and instruction, should make adjustments and set up the product according to the Patient requirements and dimensions before the Patient sits in the chair. Where possible, adjustments should be made when the Patient is not in the chair to avoid injury to the User and Patient.
- ② This product, and its accessories, should be used in accordance with local or regional guidelines regarding the use of such medical devices.
- ③ This chair should be fully assembled, all fixings secured and the chair checked for safety by a competent person before use.
- ④ The User must ensure that the product is in good condition before use (check all nuts and bolts are fastened, fabric in good condition etc). If there are any problems, these must be reported to your Seating Matters provider and corrected before the chair is put into use.
- ⑤ Keep all body parts away from the mechanisms under the chair. Repairs and maintenance should only be carried out by fully trained technicians.
- ⑥ Exercise care in using the release lever for the reclining mechanisms and adjustments to avoid injury.
- ⑦ Pressure ulcer or pressure injury reduction is not a guarantee with this equipment. The User must ensure that the Patient has a period out of the chair after prolonged sitting to raise tissue oxygenation levels. Although the chair offers pressure management, the body tissue still needs time to recover. In many places, local or national guidelines recommend a maximum of 2 hours sitting at any one time. You must also observe Patient specific recommendations and guidelines as set by their health professional with regard to the use of tilt and recline for appropriate pressure management.
- ⑧ The product must be used on a level, plain, hard surface with the brakes engaged to avoid it moving during use and to ensure stability. When the chair is not in transit, all the braking castors on the product must be engaged to prevent risk of injury when being used.
- ⑨ The product may not be left in an outdoor environment. More information on fabrics and their environment can be found later in this manual.
- ⑩ Ensure there is more than one competent person there when making adjustments to ensure they are correct and safe for the Patient.
- ⑪ If in doubt as to any the adjustments, feel free to contact Seating Matters direct at [technical@seatingmatters.com](mailto:technical@seatingmatters.com).
- ⑫ Under no circumstances must the User or Patient stand or sit on the footplate of the chair.
- ⑬ The chair should not be transported in a vehicle while the Patient is seated on the chair.
- ⑭ This product should not be lifted at any time unless by competent persons trained in such manual handling.
- ⑮ When operating the leg rest and recline features on the chair please ensure there is a 450mm gap around the chair to prevent the back or leg rest coming into contact with a wall or any other object.
- ⑯ On powered options, please ensure that your chair is charged daily.

**Please call your Seating Matters provider if you have any questions on these points.**

Regularly servicing your Seating Matters chair will prevent untimely and inconvenient breakdowns, reduce repair costs and extend the chair's life. Damage to the chair can also cause excess strain for the User and Patient.

### Important

Parts can only be changed by service persons trained in Seating Matters products and use only Seating Matters parts. We recommend that your chair is serviced every year by a Seating Matters approved provider for any running repairs and maintenance.

### Maintenance

Carry out the following regular checks to ensure the operation and safety of the chair. If you are in any doubt about the functioning of your chair contact your Seating Matters approved provider immediately.

### Daily

- ① Check that the castors are not damaged.
- ② Check that the castors turn freely.
- ③ Make sure that the castor forks run free and are not bent.
- ④ Check all fabrics for damage or contamination and replace where necessary.
- ⑤ See Cleaning Instructions section in manual for cleaning instructions.
- ⑥ Check batteries and electrical connections are secure.

### Weekly

- ① Check the castor fittings for hair and dirt etc. which could restrict the castor movement.
- ② Pick out any such material with tweezers or take the spindle out, clean it and then replace it.
- ③ If it is still not free (one continuous turn without it sticking) contact your Seating Matters approved provider for replacement.

### Monthly

#### Castors

Make sure the top of the castor housing is parallel with the floor. Any variation will cause restricted movement. If it is damaged contact your Seating Matters approved provider for replacement.

#### Mechanisms

**Check** all tilting mechanisms are working smoothly.  
**Check** that cables are not kinked or frayed.  
**Check** that all nuts and bolts are present.  
**Check** that all nuts and bolts are secure.

**Note: If nuts or bolts need attention, contact your Seating Matters approved provider IMMEDIATELY and DO NOT USE the chair until it has been serviced.**

#### Leg Rest

Check that all leg rests are easily removed/swung-away and replaced or repositioned easily. Ensure that parts lock in place securely. If parts are not locking try lubricating. If the problem still remains contact your Seating Matters approved provider.

#### Frame

Check the visible parts of the frame for cracks, splits, large dents or other damage. If you find any of these things DO NOT USE. Contact your Seating Matters approved provider immediately.



Seating Matters are committed to reducing waste and improving our care for the environment. Where possible we have manufactured our chairs with recyclable materials. Guidance on recycling can be found below.

### The WEEE Directive

The WEEE Directive, 2012/19/EC, urges producers of Electrical and Electronic Equipment (EEE) to provide information on how these products can be treated, reused or recycled.

In order to comply with this directive in the European Union, Seating Matters electrical components are marked with a crossed out wheelee bin. This indicates that the electrical components should be treated in accordance with the WEEE regulations after their useful life.

### Advice on Recycling

- 1 Your Seating Matters product may contain batteries which should not be disposed of in household waste.
- 2 Never dispose of the battery in a fire. This may cause an explosion.
- 3 The product may contain substances that could be harmful to the environment.
- 4 Electrical components must be taken to a proper recycling facility.
- 5 Your Seating Matters product contains component parts which can be recycled.
- 6 We thank you for being environmentally responsible and for making efforts to recycle your Seating Matters product at the end of its' safe and useful life.
- 7 Contact your local authority or governmental agency for the regulations that apply in your area.
- 8 If you wish to have Seating Matters recycle your product and your behalf, you are welcome to return the product to our company.



### Plastic Components

Many of our plastic components are made from polypropylene and can be recycled as long as they are recycled with other polypropylene resin materials. Polypropylene sheets can be recycled with any other materials that have this symbol.



### Plastic Trays

Our plastic tray tables are made from Polyethylene Terephthalate Glycol (PETG) which is a sturdy, transparent, easily cleaned material. Like acrylic, PETG is 100% recyclable and can be recycled and repurposed indefinitely. Capable of being sterilized, it's a renowned food-safe material and will help us meet a higher standard towards infection prevention & control. PETG's damage resistance is far higher than that of acrylic & has an impact resistance 30 times that of glass. PETG can be recycled with any other materials that have this symbol.



### Safety

The Denver™ is CE marked to show conformance to the Medical Devices Directive 93/42/EEC and conforms to BS ISO 7176 at medium hazard.

### Regional Variations

The device referred to as a "Denver™" is a Seating Matters product category and the information included in this document reflects common features of this group of products. In some regions of the world, we supply product design variations of equivalent function and ease-of-use but with alternative specifications or reinforcements.

The following table outlines the parts covered under frame warranty and the warranty period specific to your chair;

Chair	Frame Warranty Period	Frame Parts Covered
Adult Phoenix & Sorrento	7 Years	(a) metal base frame; (b) metal seat frame; (c) metal back rest frame; (d) armrest brackets; (e) cracks or tears in metal work; (f) leg rest linkages; (g) all mounting points for gas struts and electric actuators; (h) all metal fixings and hinges; and (i) all welds on chair frame.
Kids Phoenix & Sorrento		
Bariatric Sorrento		
Atlanta		
Monaco	3 Years	
Milano		
Sydney		
Denver	1 Year	

The following table outlines the parts covered under components warranty;

Chair	Component Warranty Period	Components Covered
Adult Phoenix & Sorrento	1 Year	(a) Actuator systems including control box, handset and charger/charger lead. (b) Gas struts including release cables and component parts. (c) Upholstery if there is a clear and obvious manufacturing error. (d) Castors (e) Wing knobs and adjustment handles. (f) Bolts and attachment fixings.
Kids Phoenix & Sorrento		
Bariatric Sorrento		
Atlanta		
Monaco		
Milano		
Sydney		
Denver		

For full terms and conditions visit our website or scan the QR code here:



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Seating Matters are at the forefront of seating research and design, therefore we take the protection of our intellectual property very seriously and have our designs, patents and trademarks protected in many jurisdictions throughout the world.

The Seating Matters Trademark is registered throughout the European Union and various countries globally.

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**Patent Pending** No. GB1915470.7

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**US Design Patent** No. 601360S  
No. D611718  
No. 600932  
No. D602704S

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**Australian Design Registration** No. 325536  
No. 324011  
No. 325537  
No. 324012

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**Community Design Registration** No. 001016364-002  
No. 000942180-0004  
No. 002428813-0001  
No. 001016364-001  
No. 012673018

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**Canadian Design Registration** No. 130224  
No. 128763  
No. 130217  
No. 128764

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### We are here to help

For any questions or queries regarding your Seating Matters chair please contact:  
[contact@seatingmatters.com](mailto:contact@seatingmatters.com)



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