



# Star Cushion

High Performance  
Air Cell Cushions





# Welcome to Star Cushion

Solutions for:

Pressure ulcers - Prevention and Therapy, Positioning - Symmetry and Stability.

It can take only minutes to develop a pressure ulcer, but months to heal. Preventing pressure ulcers is not complicated or expensive, but treating pressure ulcers is very costly. Research shows that more than 95% of all pressure ulcers are preventable.\*

## Tissue deformation can cause pressure ulcers.

Pressure ulcer research for the past 10–15 years has focused on the deformation processes in loaded tissues. These processes are a combination of pressure and shear when tissues are deflected around bony prominences when seated or lying.

Research also shows that the amount, and pace, of tissue deformation is strongly influenced by the supporting surface; in other words for wheelchair users - the seat cushion.

(Loerakker 2010, Levy 2013)

## Immersion and envelopment reduce tissue deformation.

A person's body, once seated, should immerse into the cushion which envelops the body tissue. This will reduce the tissue deformation and distribute the body weight over a larger area, which again reduces tissue deformation.

(Sprigle 2005)

\* NPUAP compared costs for PU treatment with costs for preventive actions. Result: Prevention is cost saving (Barbara Braden 2012)

Jonas is a 44 year old wheelchair user since 2005, when he was injured while kite surfing. His spine was fractured at level TH 7/8. Today he lives an active life with work and family.

Jonas has just started using a Star Stabil-Air Cushion and is impressed with its comfort and stability.

## Pressure Ulcer Categories

Pressure ulcers are categorized from Category I: non-blanchable erythema (due to a wound deeper in the tissue) to Category IV: deep wound with full tissue loss. Please note that a Category I ulcer should be treated as a wound and not as a redness.

See [www.EPUAP.org/puclas](http://www.EPUAP.org/puclas) for more information.

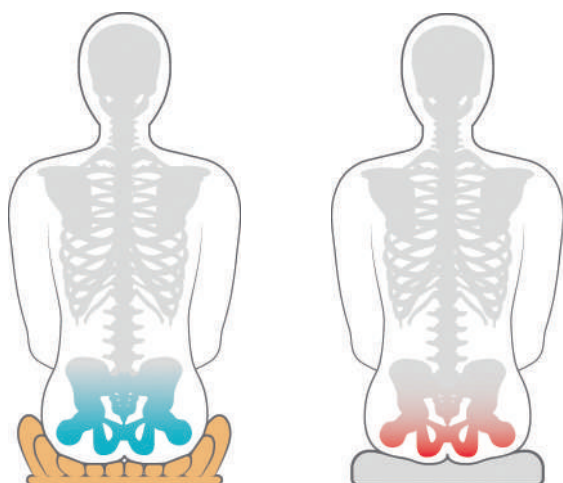
### Risk analysis

To evaluate a person's risk of developing a pressure ulcer, use risk analysis scales like Braden or Norton's.



# Star air cell cushions

- Various models
- Best pressure redistribution qualities
- Made of high quality neoprene



A good cushion shapes and envelops around the user's body, instead of the body's structures being shaped by the cushion.

## Star neoprene air cell cushions

- Effectively envelopes the body structures
- Deforms tissues minimally
- Increases the seated time compared to foam cushions

All Star cushions provide top of the range quality in preventing/healing pressure ulcers. They also have great positioning and stability properties. These qualities and properties provide comfort and increase sitting tolerance over time.



### StarLock

Excellent pressure redistribution and unlimited positioning options.



### Galaxy

Anatomically contoured  
– Immediate immersion. Stable!



### Stabil Air

Anatomical shaped foam within each of the air cells. Stable!



### Standard Air

Fantastic pressure redistribution.



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# StarLock

The StarLock cushion combines excellent pressure redistribution qualities with nearly unlimited positioning possibilities and stability.

## Air Cell Locking Technology

In air cell cushions the combination of pressure redistributing qualities, positioning and stability have always been a difficult compromise. The StarLock cushion solves all these requirements elegantly.

With its patented Cell Locking technology, the flow between the StarLock air cells can be locked and thus be custom fitted to the user's needs for positioning and stability while keeping its high pressure redistributing qualities. StarLock cushions provide the highest level of therapeutic prevention and treatment of pressure ulcers, for all pressure ulcer categories, with unique positioning possibilities and stability. StarLock is available in heights of 5, 7.5, 10 and 13 cm. For users with severe atrophy in the gluteal area, we recommend the 13 cm cell height. The StarLock cushion can also easily be used as a one compartment cushion.



StarLock cushions come complete with a fitted cover, hand pump, manual and repair kit.

### User weight

No limits as long as the correct sized cushion is used for the user.

### Material cushion

High quality latex free gold coloured neoprene. Adaptable and flame resistant.

### Material, cover

Top: 92% Polyester, 8% Spandex Sides: 3mm Black Stretch Spacer  
Bottom: PU anti-slip Flame resistant.

### Incontinence cover

Top & sides: 78% Nylon 22% Spandex covered with a Polyurethane film.  
Bottom: PU anti-slip. Flame resistant.

### Cleaning

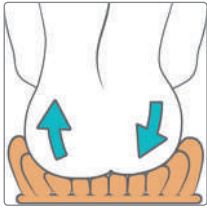
Cushion Cleaning: Hand wash with soap, baking soda or vinegar.  
For disinfection, use 70% disinfectant solution.



Cover Cleaning: Machine wash 60° C, no bleach.

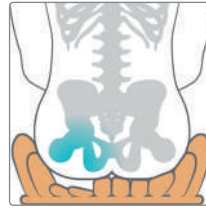


## Features



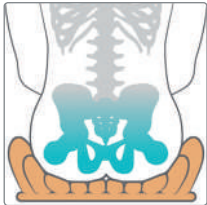
### Corrective Stability

The StarLock air cell locking technology provides maximum stability and combines unique positioning possibilities with excellent pressure redistribution qualities.



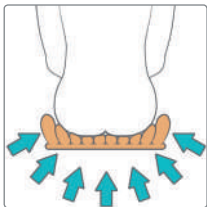
### Pressure free zones

To improve the sitting tolerance when severe pain is an issue, or off loading is medically prescribed, StarLock technology can create a stable, pressure free zone, with just as good pressure redistribution around the zone.



### Immersion and envelopment

The air cell design allows the user to immerse into the cushion. Higher cells provide the best envelopment. The StarLock is available in 5, 7.5, 10 and 13 cm cell heights.



### Pressure redistribution

The StarLock cushion has excellent pressure redistribution properties. The air cells adapt to the body structure, minimizing tissue deformation. Perfect for prevention and treatment of pressure ulcers.

## Accessory



### Incontinence cover

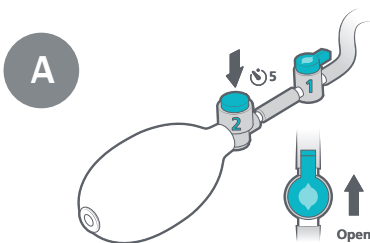
Smooth and 4-way stretch. Breathable.



Right front part has a lower air pressure in order to provide floor contact. Left thigh and pelvis are well supported.

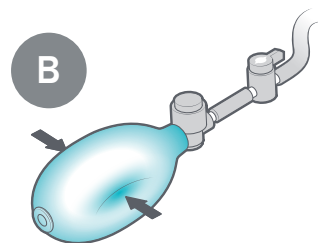
Perfect pressure redistribution and a stable position that facilitates activity.

## How to adjust StarLock Air locking technology

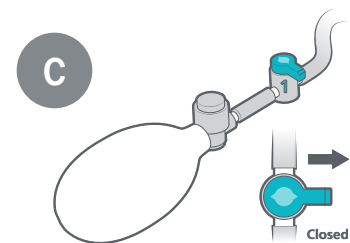


A. Check that lever (1) is turned parallel with the tube (open).

A. Press button (2) for 5 seconds. Position the client in the desired position, keep this position for 10 seconds.



B. Squeeze the bulb approximately 20 times (until there is significant resistance to squeeze further).



C. Turn lever (1) to lock the setting.



# Star Galaxy

The Galaxy cushion combines multi-cellular air technology with a patented, contoured design, which supports specific areas and fits the anatomical form.

## Unique shaped cells

The Galaxy cushion has uniquely anatomically shaped cells that provides immediate immersion and envelops around the user's body structure. The Galaxy cushion is also divided into two separate compartments, one in the front and one in the back, to enhance the pressure redistributing qualities.



Star Galaxy cushions come complete with a fitted cover, hand pump, manual and repair kit.

### User weight

No limits as long as the correct sized cushion is used for the user.

### Material cushion

High quality latex free gold coloured neoprene. Adaptable and flame resistant.

### Material, cover

Top: 92% Polyester, 8% Spandex Sides: 3mm Black Stretch Spacer Bottom: PU anti-slip  
Flame resistant.

### Incontinence cover

Top & sides: 78% Nylon 22% Spandex covered with a Polyurethane film.  
Bottom: PU anti-slip. Flame resistant.

### Cleaning

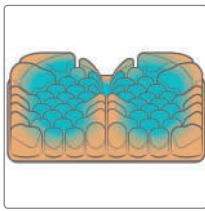
Cushion Cleaning: Hand wash with soap, baking soda, or vinegar. For disinfection, use 70% disinfectant solution.



Cover Cleaning: Machine wash 60° C, no bleach.

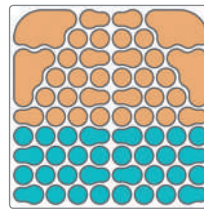


## Features



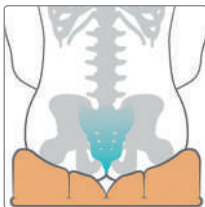
### Immediate stability

Galaxy pre-contoured air cells ensure immediate stability. The large rear cells provide a sturdy support for users with gluteal muscle atrophy.



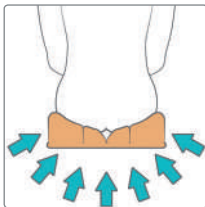
### Two compartments Adjustable front to back

Adjusting the air to lower the pressure under the ischial tuberosities, while keeping a higher pressure at front under the thighs, will maximize the stability and help facilitate side transfer.



### Pressure free coccyx

Galaxy middle rear air cells are designed to offload the coccyx. Perfect for pain sensitive users who want to improve their sitting tolerance.



### Immersion and envelopment

The air cells are pre-contoured for a symmetrical position that envelops the body structure. This reduces the risk for tissue deformation and provides very good pressure redistribution properties. Perfect for prevention and care of pressure ulcers.

## Accessory



### Incontinence cover

Smooth and 4-way stretch. Breathable.





# Star Stabil-Air

The Stabil-Air cushion is the perfect blend of multi air cell cushion with soft foam cylinders within each air cell.

## The new generation air cell cushion

Each Stabil-Air cushion has two sizes of foam cylinders. The cylinders on the outside are higher, while those under the buttocks, coccyx and legs are lower, creating an anatomically shaped secondary layer of skin protection. This increases the stability and eases transfer to and from the cushion. The Stabil-Air cushion has one chamber which is easy to use and provides stability.



Star Stabil-Air cushions come complete with a fitted cover, hand pump, manual and repair kit.

### User weight

No limits as long as the correct sized cushion is used for the user.

### Material cushion

High quality latex free gold coloured neoprene. Adaptable and flame resistant.

### Material, cover

Top: 92% Polyester, 8% Spandex Sides: 3mm Black Stretch Spacer  
Bottom: PU anti-slip. Flame resistant.

### Incontinence cover

Top & sides: 78% Nylon 22% Spandex covered with a Polyurethane film.  
Flame resistant. Bottom: PU anti-slip.

### Cleaning

Cushion Cleaning: Hand wash with soap, baking soda, or vinegar.  
For disinfection, use 70% disinfectant solution.

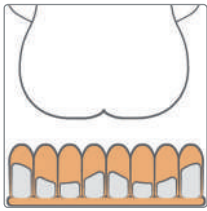


Cover Cleaning: Machine wash 60° C, no bleach.





## Features



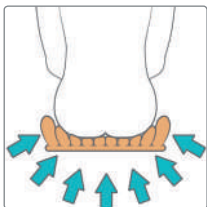
### Single compartment with concealed stability

The Stabil-Air cushion has a soft foam cylinder within each air cell. They are anatomically contoured and add exceptional stability to a single compartment air cell cushion.



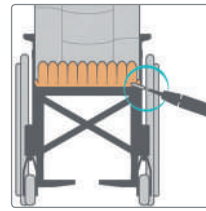
### Immersion and envelopment

The soft foam cylinders contain a considerable amount of air and allow the user to immerse into the cushion to obtain the best envelopment. The Stabil-Air is available in 7.5 cm cell height.



### Pressure redistribution

The air cell formability ensures very good pressure redistribution properties. They adapt to the body structure and minimize the risk of tissue deformation. Perfect for prevention and care of pressure ulcers.



### Easy Handling

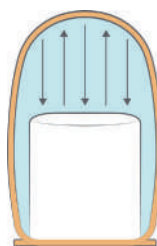
One compartment entails only one valve adjustment. The Stabil-Air cushion is an ideal combination of easy handling and stability, which can improve sitting tolerance over time.

## Accessory



### Incontinence cover

Smooth and 4-way stretch. Breathable.



- Each cell has an inbuilt soft foam cylinder
- All air cells are 7.5 cm high.
- The height of the foam cylinders creates an anatomically shaped design with higher cylinders at the lateral sides.
- Stabil-Air is the new generation one-chamber cushion.



# Star Standard Air

Single chamber air cell cushion with excellent pressure redistribution qualities.

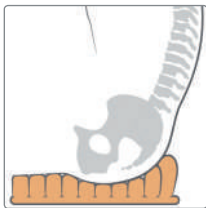
## High levels of immersion with excellent envelopment

Pressure redistribution is at its best with the enveloping qualities of the single chamber Standard Air cushion series. The flexibility of the neoprene allows the cells to shape around the buttocks, keeping cell deformation to a very low level. Standard Air is available in two different heights; 5 and 10cm. The higher the cells, the better pressure redistribution qualities.



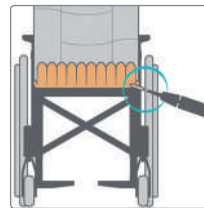
Star Standard Air cushions come complete with a fitted cover, hand pump, manual and repair kit.

## Features



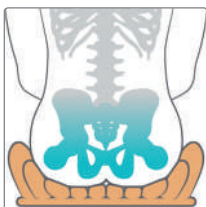
### One compartment with dynamic stability

The air cells adapt to the body structure and follow the user's smallest movement without compressing the tissue. This can aid blood circulation. Perfect for users with low activity level.



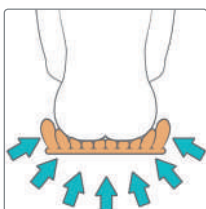
### Easy handling

One compartment entails only one valve adjustment. The Standard Air Cushion is an ideal combination of easy handling and dynamic stability, which may improve sitting tolerance over time.



### Immersion and envelopment

The air cells allow the user to immerse into the cushion and obtain the best envelopment. The higher the cells, the more immersion. The Standard Air is available in 5 and 10 cm cell heights.



### Pressure redistribution

Standard Air has excellent pressure redistribution properties. The air cells adapt to the body structure and reduce the risk for tissue deformation. Perfect for prevention and care of pressure ulcers.

## Accessory



### Incontinence cover

Smooth and 4-way stretch. Breathable.

**User weight**

No limits as long as the correct sized cushion is used for the user.

**Material cushion**

High quality latex free gold coloured neoprene. Adaptable and flame resistant.

**Material, cover**

Top: 92% Polyester, 8% Spandex Sides: 3mm Black Stretch Spacer. Bottom: PU anti-slip  
Flame resistant.

**Incontinence cover**

Top & sides: 78% Nylon 22% Spandex covered with a Polyurethane film. Flame resistant.  
Bottom: PU anti-slip.

**Cleaning**

Cushion Cleaning: Hand wash with soap, baking soda, or vinegar. For disinfection, use 70% disinfectant solution.



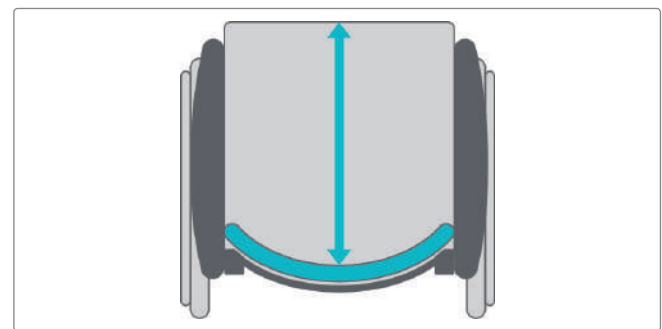
Cover Cleaning: Machine wash 60° C, no bleach.



## How and why?

### Why choose a Star air cell cushion?

- Star cushions provide the highest level of therapeutic prevention and treatment of pressure ulcers for all pressure ulcer categories.
- The higher the cells, the better performance
- Star cushions are renowned for their stability and positioning qualities.
- Star cushions improve the user’s sitting tolerance over time.

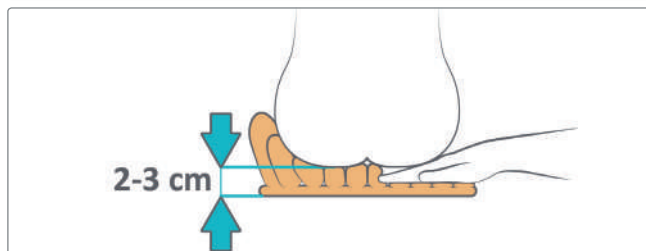


### How to choose size

Width: If the seat size doesn’t exactly match the wheelchair width, we recommend one size bigger cushion, rather than one size smaller.

Depth: On a wheelchair with tension adjustable back upholstery, be sure to measure the seat depth correctly.

## How to adjust the air pressure



- Inflate the cushion by turning the silver valve tip counter clock wise and using the black hand pump to inflate.
- Position the user on the cushion.
- Immerse the user by turning the silver valve tip clockwise to let air out of the cushion.
- Hand check, 2–3 cm distance between the cushion bottom and the user’s buttocks.
- With asymmetry, always check the lowest side first.
- If necessary, more air can be inflated with the user positioned on the cushion.
- With higher cells, the user will immerse deeper into the cushion and the pressure redistribution increases.



The seated position is highly dependent on the seat surface. Good pressure redistribution and shape is important to create comfort and improve sitting tolerance over time. Air cell cushions have proven to be the best alternative. Star's unique air cell design also provides the best stability, which is essential to obtain postural control and enable activity.

We call it Ability Based Seating™.



“Everyone should be able to live a free and independent life and pursue their dreams regardless of any physical circumstances”

For the latest news and continuously updated product information – visit: [www.etac.com](http://www.etac.com)

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Creating Possibilities