

VICAIR®

CATALOGUE 2018



relief by air

OFFICIALLY AVAILABLE THROUGH INVACARE

TRUSTED SOLUTIONS, PASSIONATE PEOPLE



**BRAND
NEW**



Lifetime warranty is a brand new and unique Vicair service that applies to the new generation of Vicair SmartCells.

We stand for the quality of these cells and therefore will always replace them in case some of them unexpectedly do not last a lifetime. Vicair Lifetime Warranty is an off-the-shelf service, no registration necessary. You can recognize the new generation SmartCells by their new black Vicair logo-print.

relief by air

CONTENTS

P14 CLINICAL CASE

Solving asymmetry and treatment of a category II

Pressure ulcer wound on the buttock of a Spina Bifida patient

P27 CLINICAL CASE

Treatment of a category IV pressure ulcer on the spine

of a CVA client and solving lateral trunk instability

Vicair technology 4

Available covers 5

Cushion size 5

Seat cushions

Vicair Adjuster O2 7

Vicair Vector O2 8

Vicair Active O2 9

Vicair AllRounder O2 11

Vicair Adjuster 12

Vicair Vector 13

Vicair Active 15

Vicair Centre Relief 16

Vicair Multifunctional 17

Vicair XXtra 18

Vicair Junior Vector 19

Vicair Twin 20

Vicair Positioner 21

Vicair Liberty 22

Back cushions

Vicair Flex Back 24

Vicair Strap back 25

Vicair Anatomic back 26

Vicair Multifunctional back 28

Mattresses

Vicair Mattress 415 29

Custom Made 30

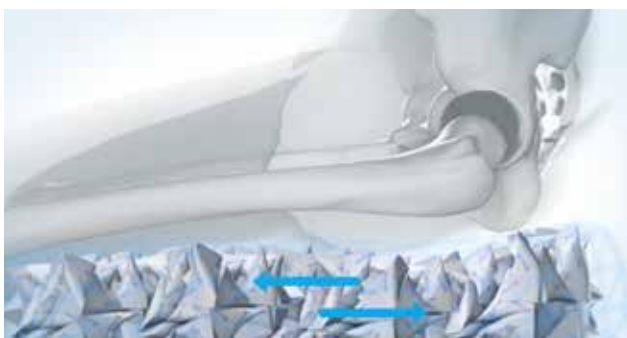
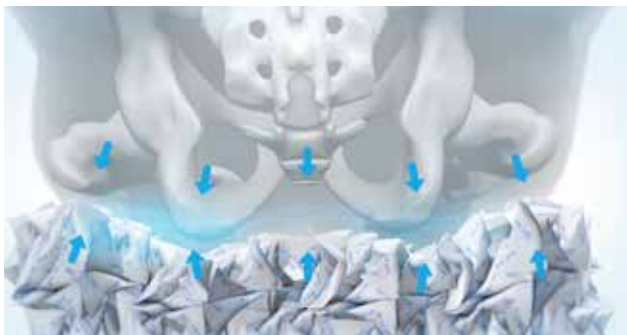
Quality, Warranty and ISO 31

VICAIR TECHNOLOGY



The best medium for pressure redistribution is air. Unfortunately, there are a few drawbacks; air is unstable and it tends to leak. Vicair solved these issues when they created Vicair SmartCells.

The unique Vicair air-technology, which uses the small air-filled SmartCells, was developed in cooperation with the Amsterdam Rehabilitation Centre. It was awarded the Grand Prix at the 'Salon des Inventions' in Geneva, Switzerland. Vicair develops and produces its product line in the Netherlands for customers all over the world.



Unique combination of skin protection and positioning

Individuals who sit on a Vicair wheelchair cushion, are supported by hundreds of SmartCells. The layers of cells inside the cushion compartments move with so little friction that the effect resembles the behaviour of a viscous fluid, slowly adjusting to the shape of the body. Also, because SmartCells deform individually, they conform to the body's contours. The result is superior pressure redistribution. On top of this, the tetrahedron-shape of the cells and the design of the cushion compartments make the Vicair cushion ultra stable and prevent the person sitting on it from sliding forward. As a result the cushion reduces shear forces to a bare minimum and helps to create and maintain an optimal, functional posture.

Ease of use

Vicair SmartCell cushions are extremely user-friendly. The well balanced filling grade ensures that Vicair cushions are ready to use, but if you prefer, you can adjust the cushions to the individual's personal positioning needs by adding or removing SmartCells. The cushion requires hardly any maintenance; there is no need for a pump or any other accessories and once the cushion is set up, it doesn't require daily monitoring. Not only are the Vicair wheelchair cushions extremely comfortable, but they are incredibly lightweight: on average weighing less than 0,8 kg each. This makes them the lightest high performance wheelchair cushions available by far.

The Vicair cushion is always ready for use. Safe, durable and low on maintenance.

watch the
video online



AVAILABLE COVERS

CUSHION SIZE

A cushion cover has influence on the overall performance of a wheelchair cushion. Therefore the Vicair covers are made of high quality materials that enhance the performance of the Vicair cushion. Ensuring that the individual will experience maximum protection and comfort.

O2 Top Cover

Especially designed for the Vicair O2 range. This cover – similar to a cap – has a breathable outer layer and covers only the top part of the cushion. Leaving the bottom part open, allowing the cushion to continue to breathe and offering optimal ventilation and comfort. The cover is ideal to help manage one of the main causes of pressure sores.

Comfair Cover

This breathable cover is made out of multi-dimensional stretch material, reducing pressure on bony prominences. It is also designed for air transmission and heat dissipation.

Incontinence Cover

There is a high quality incontinence cover available for all Vicair seat cushions. The cover is made out of elastic water and fluid resistant material, which makes it extremely usable in all situations (institutional and home use) where incontinence and hygiene is an issue.

Air Exchange Cover

Designed to use with the Vicair Liberty Profile. This cover is made of 3D mesh fabric, that makes it extra breathable and comfortable.

Reversible Cover

Fluid resistant material on one side and cool stretch fabric on the other side. Simply choose the outside of the cover that suits the situation. This cover fits the Vicair Adjuster, Vector and Centre Relief.

GENERAL TECHNICAL SPECIFICATIONS

Used materials	Latex free
Machine washable	60°C

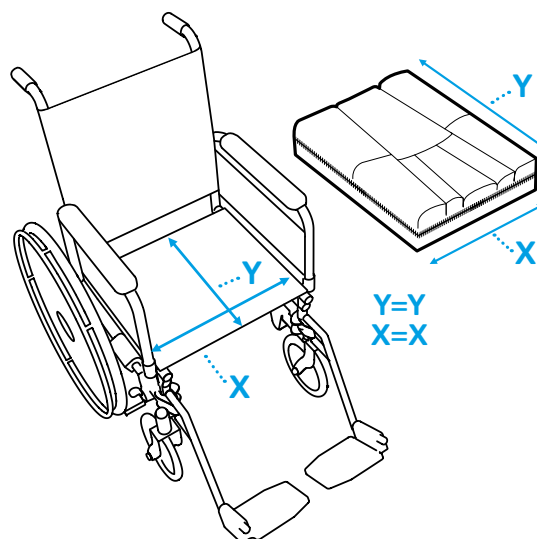
It's not only the unique technique of the Vicair cushions that provides an optimal seating position. Setting up the wheelchair properly is extremely important.

Think of the adjustment of the foot plate, correct seating angle, right backrest height, but also the seat to floor height.

To get the correct size of wheelchair cushion, Vicair recommends to measure as follows:

The width (X) of the cushion and the wheelchair seat should match. When the cushion rests against armrests or side-guards, the width of a Vicair seat cushion may be up to 2,5 cm (1") wider.* The depth (Y) of the cushion and seat should always vmatch.

* Exception: The width of the Vicair Active and Vicair Active O2 should match the width of the wheelchair seat



NEW

VICAIR[®]

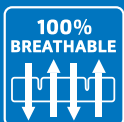
O2

The Vicair O2 cushions tackle the hygiene issues caused by incontinence. The open structure of the O2 cushions allows the cushions to be easily washed in any washing machine. Without the need for a laundry bag, and without removing the SmartCells. These cushions are ideal for both institutional and home use, in situations where incontinence, temperature and humidity is an issue.



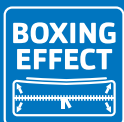
100% MACHINE WASHABLE

In all washing machines washable at 60°C without using a laundry bag or removing the SmartCells™.



100% BREATHABLE

Cushion is fully breathable due to open fabric structure yet resistant to incontinence.



BOXING EFFECT

More cushion volume creating better immersion and enhanced SmartCell support. Easier to adjust when client is seated.



WIDE RANGE

Available in two heights. With 145 standard sizes and many extra sizes available on request, the O2 series will cover all sizing requirements.

Fully machine washable for optimal hygiene

100% Breathable for regulating temperature and moisture

Unique Boxing Effect for better immersion

relief by air

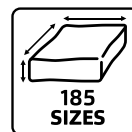
EQUAL PRESSURE DISTRIBUTION AND PERFECT SUPPORT FOR THE ASYMMETRIC BODY

Pre-ischial bar prevents sliding forward | Converts shear into normal forces

Total immersion for equal pressure distribution | Support IT-coccyx area | Managing pelvic asymmetry

Thigh support

Mid height zip closure for easy adjustment when client is seated, and to increase cushion immersion (Boxing Effect)



An individual solution for asymmetry, even the extreme kinds

Total immersion for equal pressure distribution

Prevents sliding while minimizing shear

The Adjuster O2 is extremely suitable for use with asymmetric body contours and amputations. It automatically manages small obliquities and is individually adjustable to support more extreme asymmetry. The Adjuster O2 offers a high comfort level, optimal skin protection and stability. The design allows total immersion to equally redistribute pressure and prevents sliding forward. 100% machine washable and breathable, for optimal hygiene and perfect temperature and moisture regulation. As a result the Adjuster O2 offers the optimal protection against skin breakdown.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲▲
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲▲
Micro climate control	▲▲▲▲▲
Impact & vibration damping	▲▲▲▲▲

Positioning	▲▲▲▲▲
Lateral stability	▲▲▲▲▲△
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲▲△

Maintenance & Safety	▲▲▲▲▲
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲▲△
Low maintenance level	▲▲▲▲▲
Level of hygiene	▲▲▲▲▲

Functionality & Application	▲▲▲▲▲
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲▲△

USED WITH

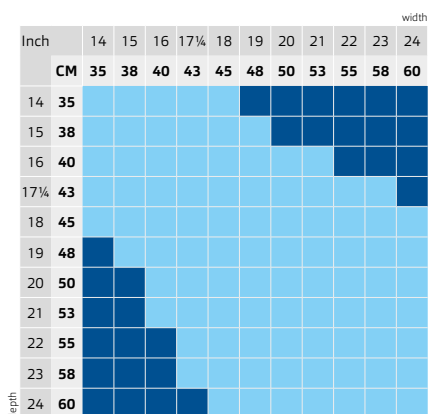
Hemiplegia (CVA), amputations, foot propulsion, kyphosis, pelvic obliquity/ tilt/rotation, Spina Bifida, spasms, Fibrodysplasia Ossificans Progressiva (FOP)

TECHNICAL SPECIFICATIONS

Height	6 and 10 cm
Average weight	534-769 grams
Max. user weight	250 kg
Machine washable	60°C max.

CUSHION SIZES

Standard (Sizes >53 cm height 10 only)
On request



OFFLOADING THE IT-COCCYX AREA

Ischial well - Two compartments for superior offloading of the IT-coccyx area & extra positioning possibilities

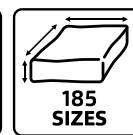
Trochanter support: firmer density to provide lateral stability and to redistribute pressure to help create an ischial well



Front compartments provide leg alignment and stability. Easily adjustable for individual positioning needs.

Mid height zip closure for easy adjustment when client is seated, and to increase cushion immersion. (Boxing Effect)

NEW & IMPROVED



Superior pressure redistribution due to the combination of immersion and offloading

Nine adjustable compartments for maximum stability

Extra positioning of the upper legs

Sometimes it is necessary to offload the vulnerable area around the IT's (sitting bones) and coccyx (tailbone). The Vector 02 does just that. It's unique compartment layout further provides comfort, optimal skin protection, excellent leg guidance and extra pelvic stability. 100% machine washable and breathable, for optimal hygiene and perfect temperature and moisture regulation. The Vector 02 offers support where needed, resulting in improved functionality of the upper body and expanding reach.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲▲
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲▲▲
Impact & vibration damping	▲▲▲▲▲

Positioning

Lateral stability	▲▲▲▲▲
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety

Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲▲
Level of hygiene	▲▲▲▲▲

Functionality & Application

Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

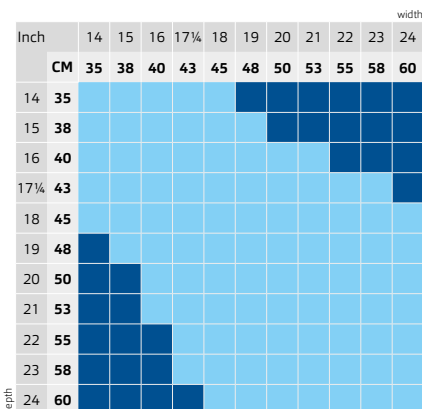
Spinal cord injuries, neuromuscular diseases, hypermobility syndrome, Ehlers Danlos Syndrome (EDS)

TECHNICAL SPECIFICATIONS

Height	6 and 10 cm
Average weight	500-850 grams
Max. user weight	250 kg
Machine washable	60°C max.

CUSHION SIZES

- Standard (Sizes >53 cm height 10 only)
- On request

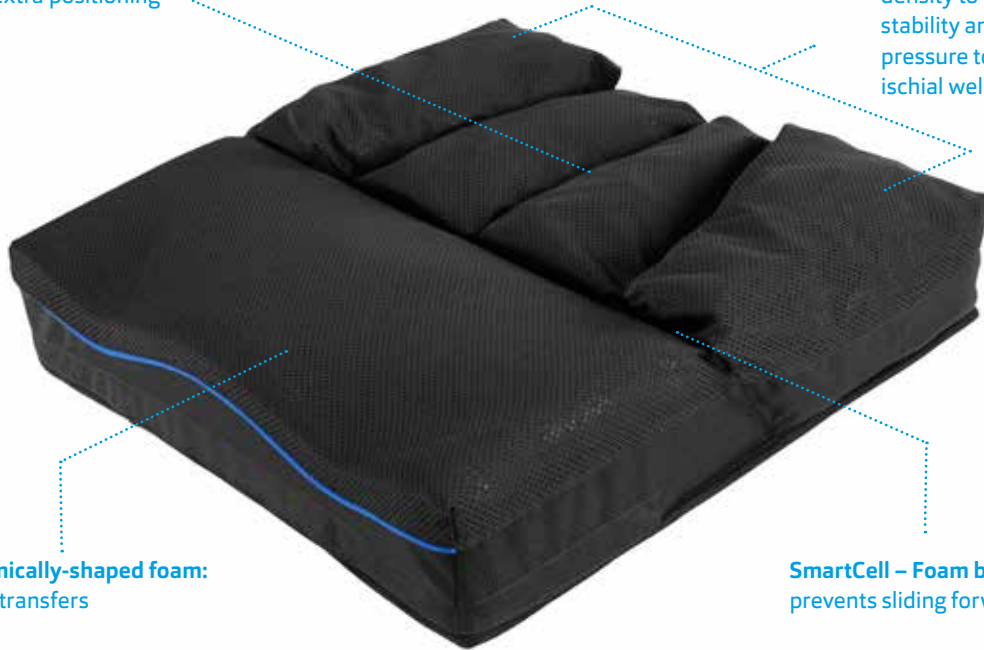


FOR THE ACTIVE WHEELCHAIR PERSON

O₂
MACHINE WASHABLE
100% BREATHABLE

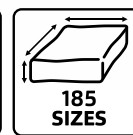
Ischial well - Two compartments
 for superior offloading of the IT-coccyx area & extra positioning possibilities

Trochanter support: firmer density to provide lateral stability and to redistribute pressure to help create an ischial well



Ergonomically-shaped foam:
 for easy transfers

SmartCell – Foam barrier:
 prevents sliding forward



Excellent lateral and frontal stability

Perfect fit for those who transfer frequently

Superior ischial offloading and protection

The Active O2 offers the unique combination of ergonomically shaped foam and Vicair SmartCells. The four rear SmartCell compartments provide a high level of comfort and skin protection, and offload the seat bones and tailbone area. The foam front makes transfers easy and feels steady and improves wheelchair handling. The foam inlay is protected by an easy-to-clean fluid-resistant liner. The rest of the cushion is 100% machine washable and breathable for optimal hygiene and perfect temperature & moisture regulation. Complete with an easy accessible storage pouch for precious belongings (keys, phone, wallet), your client has everything they need to maintain an active lifestyle.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲▲
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲▲
Micro climate control	▲▲▲▲▲
Impact & vibration damping	▲▲▲▲▲

Positioning ▲▲▲▲▲

Lateral stability	▲▲▲▲▲
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲▲

Maintenance & Safety ▲▲▲▲▲

Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△△
Low maintenance level	▲▲▲▲▲
Level of hygiene	▲▲▲▲▲

Functionality & Application ▲▲▲▲▲

Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲△
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲▲△

USED WITH

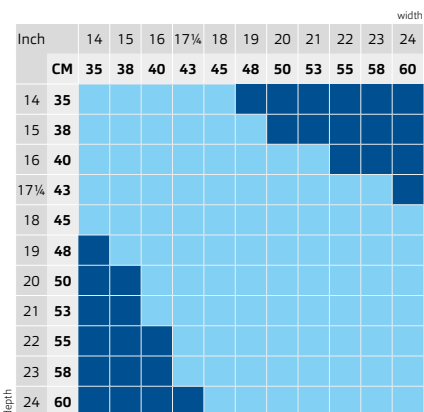
Spinal cord injuries, active users with a high transfer frequency

TECHNICAL SPECIFICATIONS

Height	6 and 9 cm
Average weight	700 grams
Max. user weight	200 kg
Machine washable	60°C (without foam)

CUSHION SIZES

- Standard (Sizes >53 cm height 9 only)
- On request





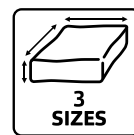
GO ALL AROUND THE WORLD

Ergonomically shaped back part for seamless fit to the shape of the lower back.



Vicair SmartCells for skin-protection

Easily adjustable straps To provide comfort and to follow the body



Stays with your client during activities

Skin protection

Extremely light to support optimal mobility

Not all activities require or allow the use of a wheelchair. In these situations the Vicair AllRounder O2 keeps your client comfortable and helps to protect their skin. As it is easily buckled onto the body, it will follow your client around wherever they go.

Your client can feel protected and secure during sports and outdoor activities, when sitting in a normal chair or on any hard surface, or when playing on the ground. Afterwards put the entire AllRounder O2 in the washing machine then hang it up to dry, ready for the next adventure. Allows your client to experience freedom!

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	△△△△△
Shear reduction	△△△△△
Micro climate control	▲▲▲▲▲
Impact & vibration damping	▲▲▲▲△

Positioning	△△△△△
Lateral stability	△△△△△
Frontal stability	△△△△△
Sliding prevention	△△△△△
Allows manual adjustments	△△△△△
Allows easy transfers	△△△△△

Maintenance & Safety	▲▲▲▲△
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	△△△△△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲▲

Functionality & Application	▲▲▲▲△
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	△△△△△
Auto adjustments	△△△△△

USED WITH

Activities outside of the wheelchair | When seated on hard surfaces for long periods in time.

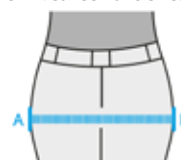
TECHNICAL SPECIFICATIONS

Height	n.a.
Average weight	800 grams
Max. user weight	100 kg
Machine washable	60°C max.

CUSHION SIZE

Small	< 38 cm
Medium	38 – 42,5 cm
Large	43 – 48 cm

Measure the width of your client's hips to check which size matches the size of their body. When seated, hold a tape measure horizontally above the widest point of the upper legs, closely against the front of their hips. Do not follow the leg contours, keep the tape measure straight. Measure from A to B (or B to A). Choose the larger size if the measured size is in between two sizes.



EQUAL PRESSURE DISTRIBUTION AND PERFECT SUPPORT FOR THE ASYMMETRIC BODY

Pre-ischial bar prevents sliding forward | Converts shear into normal forces

Total immersion for equal pressure distribution | Support IT-coccyx area | Managing pelvic asymmetry

Thigh support



PRESSURE ULCER TREATMENT

An individual solution for asymmetry, even the extreme kinds

Total immersion for equal pressure distribution

Prevents sliding while minimizing shear

The Adjuster is extremely suitable for use with asymmetric body contours and amputations. It automatically manages small obliquities and is individually adjustable to support more extreme asymmetry. When you are looking for a high level of comfort, optimal skin protection and stability: the Vicair Adjuster is always a safe choice. The design of this wheelchair cushion allows total immersion, to redistribute pressure equally. At the same time it prevents your client from sliding forward. As a result the Adjuster offers optimal protection against skin breakdown.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲▲
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲▲
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲▲

Positioning

Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety

Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application

Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲△
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

Hemiplegia (CVA), amputations, foot propulsion, kyphosis, pelvic obliquity/ tilt/rotation, Spina Bifida, spasms, Fibrodysplasia Ossificans Progressiva (FOP)

TECHNICAL SPECIFICATIONS

Height	6 and 10 cm
Average weight	534-769 grams
Max. user weight	250 kg

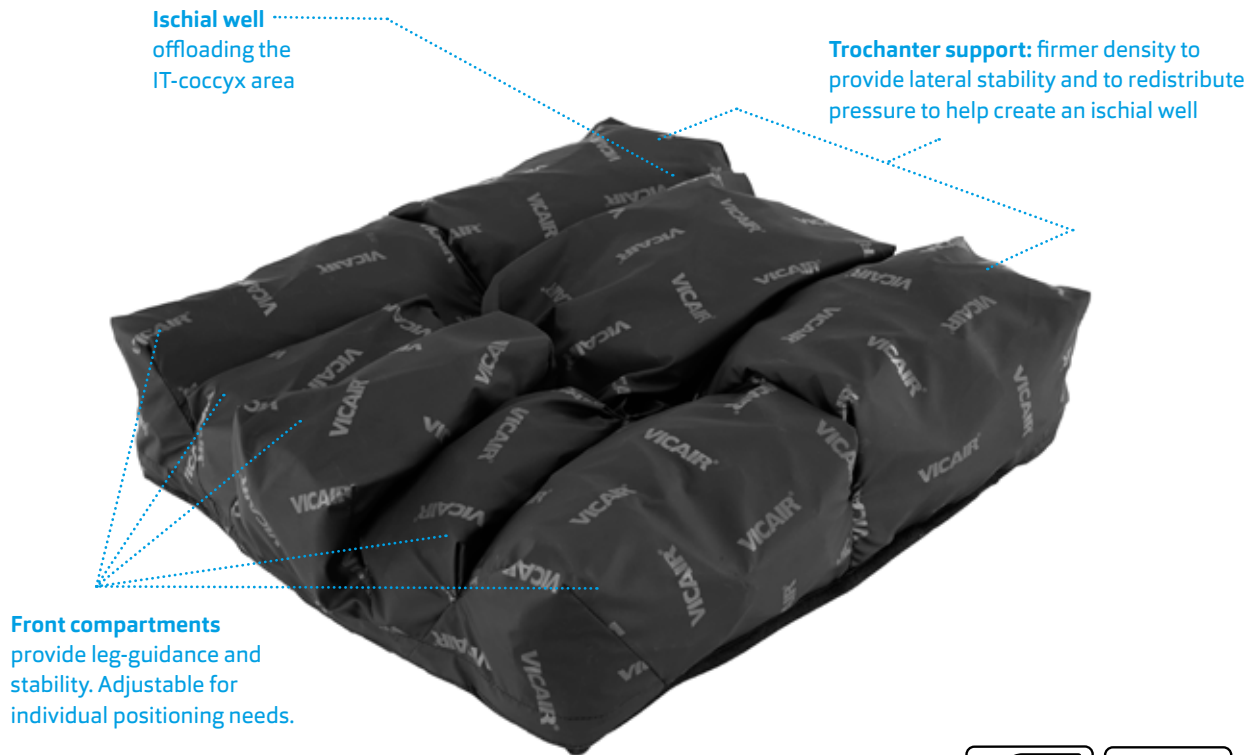
CUSHION SIZES

- Standard
- On request

(Sizes >53 cm height 10 only)

Inch	width										
	14	15	16	17½	18	19	20	21	22	23	24
CM	35	38	40	43	45	48	50	53	55	58	60
14	35	■	■	■	■	■	■	■	■	■	■
15	38	■	■	■	■	■	■	■	■	■	■
16	40	■	■	■	■	■	■	■	■	■	■
17½	43	■	■	■	■	■	■	■	■	■	■
18	45	■	■	■	■	■	■	■	■	■	■
19	48	■	■	■	■	■	■	■	■	■	■
20	50	■	■	■	■	■	■	■	■	■	■
21	53	■	■	■	■	■	■	■	■	■	■
22	55	■	■	■	■	■	■	■	■	■	■
23	58	■	■	■	■	■	■	■	■	■	■
24	60	■	■	■	■	■	■	■	■	■	■

OFFLOADING THE IT-COCCYX AREA



High quality pressure redistribution due to the combination of immersion and offloading

Eight adjustable compartments for maximum stability

Extra positioning of the upper legs

Sometimes it is necessary to offload the vulnerable area around the IT's (sitting bones) and coccyx (tailbone). The Vicair Vector does just that. It's unique compartment layout further provides comfort, optimal skin protection, excellent leg guidance and extra pelvic stability. The Vector offers support where needed, resulting in improved functionality of the upper body as well as expanding reach.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲▲

Positioning

Lateral stability	▲▲▲▲▲
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety

Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application

Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲△△
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

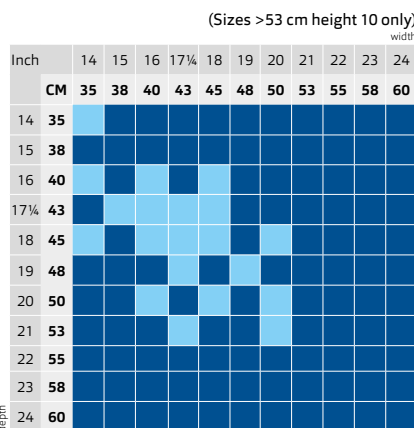
Spinal cord injuries, neuromuscular diseases, hypermobility syndrome, Ehlers Danlos Syndrome (EDS)

TECHNICAL SPECIFICATIONS

Height	6 and 10 cm
Average weight	640-820 grams
Max. user weight	250 kg

CUSHION SIZES

- Standard
- On request



CLINICAL CASE Solving asymmetry and treatment of a category II Pressure ulcer wound on the buttock of a Spina Bifida patient

Medical history

At home Mr. de L (73) generally uses a working chair. Outside he generally uses a manual wheelchair. This is an active Quicky Argon wheelchair without arm posts with a Jay Easy Visco cushion in it. Mr. de L also uses a handbike. Mr. de L has a normal chair, but he scarcely uses the chair as it does not offer much comfort. Mr. de L. mainly walks therapeutically and to make transfers, using elbow crutches.



Examination

Physical assessment

Mr. de L.'s left leg has a different bony structure and size than his right leg. Because of the shorter left leg Mr. de L. has a corrective left shoe. The left leg also has reduced muscle mass. While seated and laying down the abdominal mass is positioned to the left side. A seat-angle of 110 degrees is perceived as comfortable. At 100 degrees Mr. de L. starts to experience pain, mainly left hip pain.

Pressure Ulcer

Disturbance of sensation in buttocks and lower extremities. At the start of the treatment in the Seating Clinic Mr. de L. suffers from a superficial pressure ulcer, stage 2, wound edge maceration. The ulcer does not show signs of shear force. Generally the pressure ulcer does not cause pain.

Urinary or faecal incontinence

Urine stoma, but once in a while faeces incontinent. This does not affect the pressure ulcer.

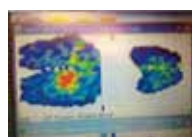
Pain

Mr.de L. experiences pain in the left side of his body. At the height of thoracic spinal cord segments 6-8 and in the left side of the torso. Treatment with pain medication has not been sufficient. The pain in his torso occurs after sitting for half an hour: VAS score varies strongly. Once a week Mr. de L. goes to bed, when the pain becomes unbearable and he wants to change his position.

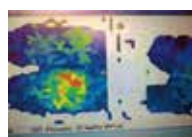
Pressure mapping

All pressure mappings show pressure on

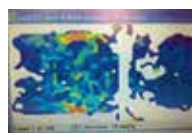
the ischial tuberosities. But when using the Jay Easy Visco cushion there is very significant pressure on the left buttock and the centre of gravity of the body shifts to the left. When using a cushion that can be setup asymmetrically the pressure is redistributed more equally across the entire surface of the buttocks. The asymmetric setup is accomplished by relatively increasing the height of the cushion's left side, because there is less buttock/leg mass on this side. A cushion that is shaped to offer extra support to the trochanters creates too much pressure on the bony structure of the trochanters and does not sufficiently offer a symmetric seating position.



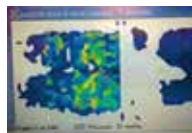
Working chair



Vicair Active without adjustments



Jay Easy Visco



Vicair Active asymmetrical setup

Trying out cushions

It was not possible to setup the working chair with the cushions. Because of this Mr. de L. has been using the manual wheelchair inside the house, to optimally try out the cushions.

The intended purpose of applying the vicair

Active cushion

After pressure mapping we chose to try out a cushion that could be adjusted to a asymmetric setup. This was a Vicair cushion. By setting up this cushion asymmetrically (more volume on the left side, less volume on the right) the smaller leg/buttock mass is supported and Mr. de L. experiences improved pelvic stability while seated. Mr. de L. tried this cushion for two weeks. At that point the pressure ulcer had healed, but Mr. de L. slowly started to slide forward on the cushion. We decided to try out a Vicair Active for the next two weeks. This cushion offered a good seating position and more stability. Mr. de L. experienced a good level of seating comfort.

What was the setup of the Vicair Active cushion:



We removed 7 SmartCells from the cushion's right rear compartment, added 3 SmartCells to the left rear compartment and kept the standard filling in the centre compartment. We also installed a seat board on top of the wheelchair's sling seat to prevent hammocking.

In addition: Mr. de L. has started to stand up and sit down more often. He tries to walk two times a day, but also walks in a functional manner for instance for toilet visits and transfers. Mr. de L. is more aware of the effect of alternating his position.

Final analysis

Mr. de L. needs a cushion that can be setup asymmetrically and that offers stability. A Vicair Active cushion, when setup in the right way, is able to provide good positioning. Mr. de L. now uses his manual wheelchair more frequently, as the working chair cannot be adjusted. Although a (electric) working chair is desirable to move around inside the house more easily and for instance to properly work in the kitchen. However, it should be possible to add an asymmetrically setup cushion (Vicair Active) to this chair.

Besides this the seating angle of the working chair has to be able to be 100 degrees, the same as the wheelchair with strap back is able to provide. Although a seating angle of 110 degrees offers more comfort to Mr. de L., his seating position is more functional (and therefore Mr. de L. more independent) when the angle is closer to 100 degrees.

Because of the large amount of time the client spends in his chair, the lateral lumbar support to the lower back should also be improved.

When the manual wheelchair is replaced and/or when Mr. de L. is going to use his manual wheelchair inside more frequently it is also important to improve the lateral support, for instance by positioning Mr. de L. more in between the back posts of the wheelchair.

Rehab Clinical - The Netherlands

FOR ACTIVE INDIVIDUALS



Excellent lateral and frontal stability
Perfect fit for those who transfers frequently
Ischial offloading and protection

The Vicair Active offers the unique combination of ergonomically shaped foam and Vicair SmartCells. The three rear SmartCell compartments provide a high level of comfort and skin protection, and offload the sitting bones and tailbone area. The foam front compartment makes transfers easy. It also gives a great sense of stability and better wheelchair handling. The cushion is made of comfortably breathable textile, that is washable at 60°C. The Vicair Active has an easy accessible storage pouch for precious belongings (keys, phone, wallet). In short: everything your client needs to maintain their active lifestyle!

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲▲
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲▲
Micro climate control	▲▲▲△△
Impact & vibration damping	▲▲▲▲▲

Positioning

Positioning	▲▲▲▲▲
Lateral stability	▲▲▲▲▲
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲▲

Maintenance & Safety

Maintenance & Safety	▲▲▲▲△
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲△△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application

Functionality & Application	▲▲▲▲▲
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲△
Available size range	▲▲▲△△
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

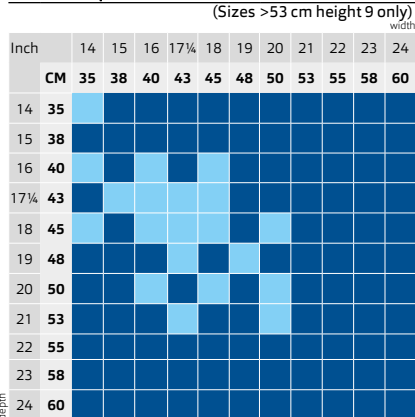
Spinal cord injuries, active users with a high transfer frequency

TECHNICAL SPECIFICATIONS

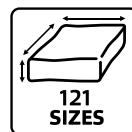
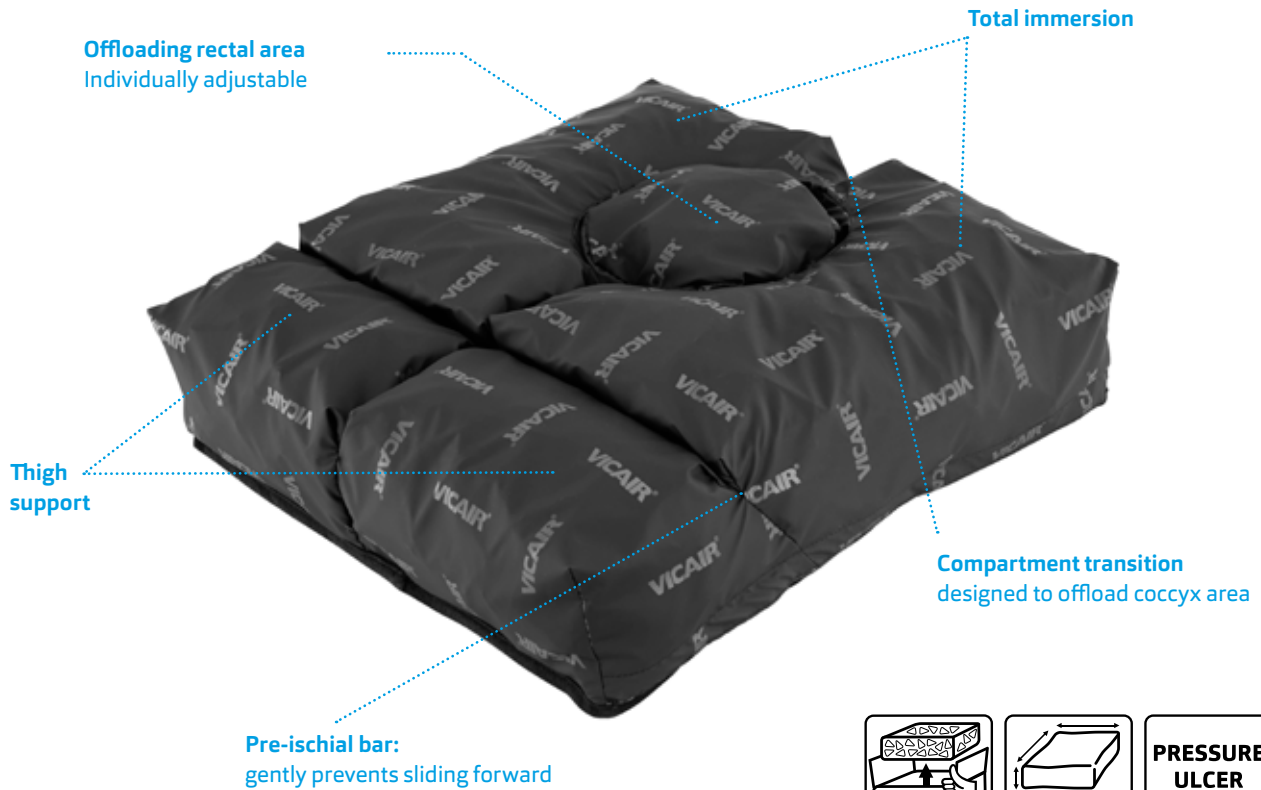
Height	6 and 9 cm
Average weight	700 grams
Max. user weight	200 kg
Machine washable	60°C (when emptied)

CUSHION SIZES

- Standard
- On request



OFFLOADING PRESSURE IN THE HIGH RISK AREA



For completely offloading of the rectal area
Adjustable non-contact area
Stable positioning

The Vicair Centre Relief is the best choice for completely offload the rectum perineum and coccyx area. By simply removing SmartCells from the centre circle compartment you create a non-contact area. This important feature makes a great difference for persons with (for instance) localized deep pressure ulcers, rectum or tailbone problems. Or after perineal surgery.

The Vicair Centre Relief helps your client to sit comfortably and safe, even in the most painful situations.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲▲

Positioning	▲▲▲▲△
Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲△
Sliding prevention	▲▲▲▲△
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety	▲▲▲▲△
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application	▲▲▲▲△
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲△
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

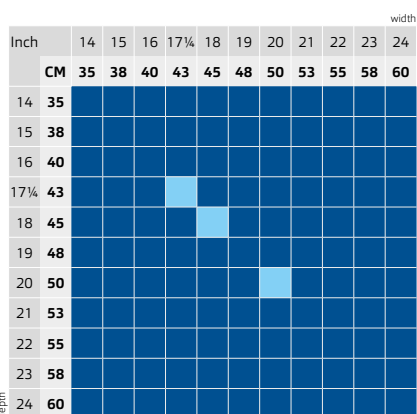
Rectum problems, tailbone problems, localized deep pressure ulcers, after perineal surgery or difficult childbirth

TECHNICAL SPECIFICATIONS

Height	10 cm
Average weight	750 grams
Max. user weight	250 kg

CUSHION SIZES

- Standard
- On request

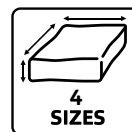
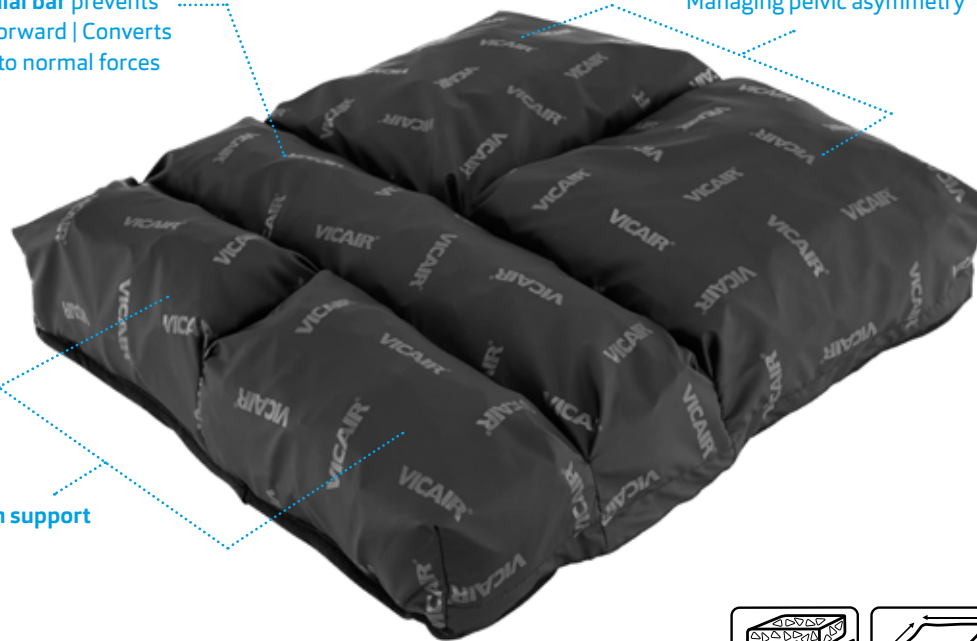


COMFORT AND SKIN PROTECTION IN A TILT-IN-SPACE WHEELCHAIR

Pre-ischial bar prevents sliding forward | Converts shear into normal forces

Longer compartments to fit into tilt-in-space chairs | Total immersion for equal pressure distribution | Support IT & coccyx area | Managing pelvic asymmetry

Thigh support



Ideal for use in tilt-in-space chair with adjustable seat depth

Vicair Adjuster design with deeper rear end compartments

Total immersion for equal pressure distribution

The Vicair Multifunctional seat cushion is developed to use in a tilt-in-space wheelchair with adjustable seat depth. The cushion provides a high level of comfort, optimal skin protection and stability. The design allows total immersion, to redistribute pressure equally. At the same time it keeps your client comfortably positioned and supported. A safe and reliable solution, offering optimal protection against skin breakdown. Especially when it's used in combination with the Vicair Multifunctional back cushion.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲▲
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲▲
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲▲

Positioning	▲▲▲▲▲
Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety	▲▲▲▲▲
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application	▲▲▲▲▲
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

Neuromuscular diseases, Rheumatism, Quadriplegia, pain relief, in a geriatric environment

TECHNICAL SPECIFICATIONS

Height	8 cm
Average weight	850 grams
Max. user weight	250 kg

CUSHION SIZES

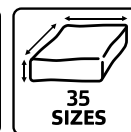
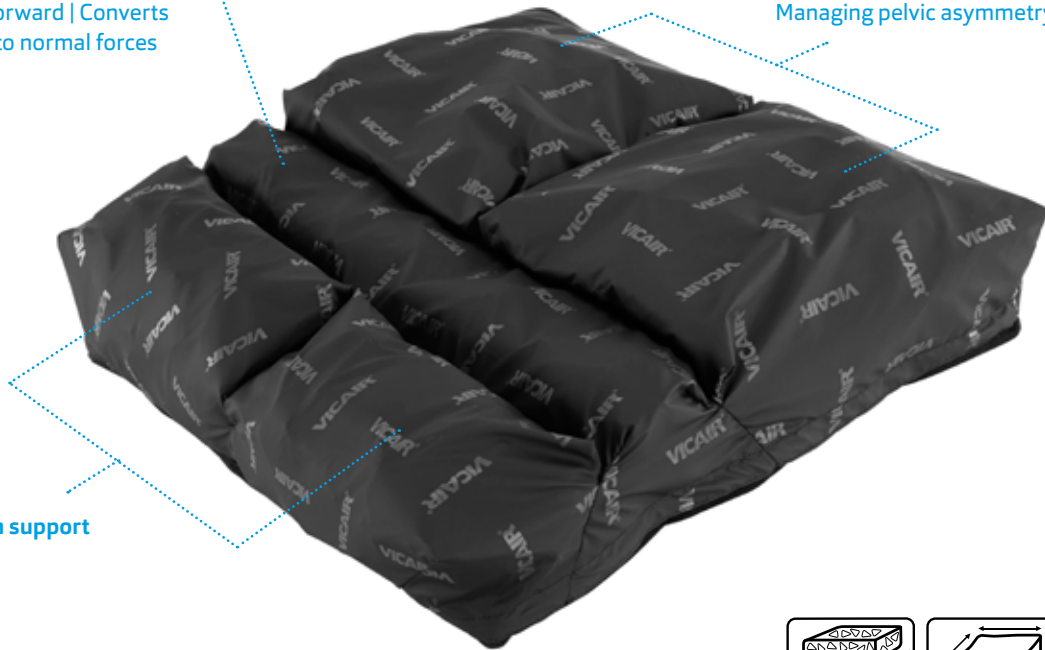
cm	inches
37x52	15x21
40x52	16x21
45x52	18x21
50x52	20x21

CARE FOR ALL SIZES

Pre-ischial bar prevents sliding forward | Converts shear into normal forces

Total immersion for equal pressure distribution | Support IT-coccyx area | Managing pelvic asymmetry

Thigh support



Shaped like the Vicair Adjuster

Max. user weight 500kg

Wider size range than other Vicair products

The Vicair XXtra is a wheelchair cushion especially developed for bariatrics. The compartments are filled with bigger SmartCells, offering individuals with a weight of upto 500 kg optimal protection against skin breakdown. The design, based on the Vicair Adjuster, combines excellent stability and positioning possibilities with a very high level of comfort.

The cushion automatically manages small pelvic obliquities, but can be individually adjusted to support more extreme asymmetry.

Despite the large size, the cushion is extremely lightweight!

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲▲
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲▲
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲▲

Positioning

Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety

Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application

Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

Obesity, Hemiplegia (CVA), amputations, foot propulsion, kyphosis, pelvic obliquity/tilt/rotation, Spina Bifida, spasms, Fibrodysplasia Ossificans Progressiva (FOP)

TECHNICAL SPECIFICATIONS

Height	10 cm
Average weight	900 grams
Max. user weight	500 kg

CUSHION SIZES

- Standard
- On request

Inch	width				
	22	24	26	28	30
CM	55	60	65	70	75
18	45				
20	50				
22	55				
24	60				
26	65				
28	70				
30	75				

MAXIMUM STABILITY FOR THE LITTLE ONES



Especially designed for children

Filled with small-sized SmartCells for optimal pressure redistribution

Built to provide carefree mobility

The Vicair Junior Vector is designed for the child's physique. Based on the Vicair Vector and filled with small-sized junior SmartCells, it provides optimal pressure redistribution and comfort. There are excellent stability and positioning possibilities with this cushion. It offers a solution, for instance, for children with muscle disorders and spasms.

The Vicair Junior Vector keeps the child comfortable, safe and protected during its daily adventures.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲△△
Impact & vibration damping	▲▲▲▲▲

Positioning	▲▲▲▲▲
Lateral stability	▲▲▲▲▲
Frontal stability	▲▲▲▲▲
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety	▲▲▲▲▲
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application	▲▲▲▲▲
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

Spasms, muscle disorders

TECHNICAL SPECIFICATIONS

Height	9 cm
Average weight	450 grams
Max. user weight	100 kg

CUSHION SIZES

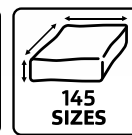
- Standard
- On request

Inch	width					
	10	11	12	13	14	
	CM	25	28	30	33	35
10	25	■	■	■	■	■
11	28	■	■	■	■	■
12	30	■	■	■	■	■
13	33	■	■	■	■	■
14	35	■	■	■	■	■

EASY TO USE AND COMFORTABLE



High quality pressure redistribution | Immersion



Two compartment layout limits sliding

Comfortable

Can be used as a community chair cushion

The Vicair Twin is an easy to use and comfortable wheelchair cushion. It is designed for those who require comfort in combination with a medium level of support and pressure ulcer prevention.

The two compartments of the cushion provide an even pressure distribution and help to prevent sliding forward.

The Vicair Twin is lightweight and ready-for-use.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲△
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲△

Positioning	▲▲▲▲△
Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲△
Sliding prevention	▲▲▲▲△
Allows manual adjustments	▲▲▲▲△
Allows easy transfers	▲▲▲▲△

Maintenance & Safety	▲▲▲▲△
Durability	▲▲▲▲△
Reliability	▲▲▲▲△
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application	▲▲▲▲△
Comfort	▲▲▲▲△
Low cushion weight	▲▲▲▲△
Available size range	▲▲▲▲△
Maximum user weight	▲▲▲▲△
Low seat to floor height	▲▲▲▲△
Auto adjustments	▲▲▲▲△

USED WITH

Neuromuscular, rheumatism, pain relief, in a geriatric environment.

TECHNICAL SPECIFICATIONS

Height	6 and 10 cm
Average weight	650 - 935 grams
Max. user weight	250 kg

CUSHION SIZES*

- Standard
- On request

Inch	width										
	14	15	16	17½	18	19	20	21	22	23	24
CM	35	38	40	43	45	48	50	53	55	58	60
14	35	38	40	43	45	48	50	53	55	58	60
15	38	40	43	45	48	50	53	55	58	60	
16	40	43	45	48	50	53	55	58	60		
17½	43	45	48	50	53	55	58	60			
18	45	48	50	53	55	58	60				
19	48	50	53	55	58	60					
20	50	53	55	58	60						
21	53	55	58	60							
22	55	58	60								
23	58	60									
24	60										

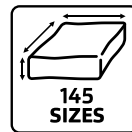
Displayed sizes are for the 10cm high model. For 6cm high model contact dealer.

COMFORT AND POSITIONING

High quality pressure redistribution in the pelvic area | immersion

Thigh support: firmer density to provide lateral stability

Front compartment provides leg-guidance and stability.



Two side compartments for lateral stability

Comfortable

The Vicair Positioner is an easy to use and comfortable wheelchair cushion. It is designed for users who require lateral stability in combination with a medium level of pressure ulcer prevention.

The two compartments in the middle section of the cushion help prevent sliding forward. The two firmer side compartments support the positioning of pelvis and upper legs.

The Vicair Positioner is lightweight and ready-for-use.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲△
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲△

Positioning

Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲△
Sliding prevention	▲▲▲▲△
Allows manual adjustments	▲▲▲▲△
Allows easy transfers	▲▲▲▲△

Maintenance & Safety

Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application

Comfort	▲▲▲▲△
Low cushion weight	▲▲▲▲▲
Available size range	▲▲△△△
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲△

USED WITH

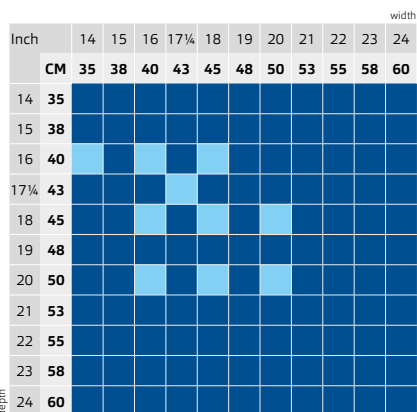
Spinal cord injuries, Osteoarthritis/arthritis, rheumatism, spondylitis, pain relief.

TECHNICAL SPECIFICATIONS

Height	6 and 10 cm
Average weight	650 - 935 grams
Max. user weight	250 kg

CUSHION SIZES*

- Standard
- On request



Displayed sizes are for the 10cm high model. For 6cm high model contact dealer.

LOW-MEDIUM SUPPORT AND PRESSURE ULCER PREVENTION

Compartment barrier gently prevents sliding forward

Equal pressure distribution on the seating surface

Auto-adjusting valve



Air valve automatically adapts the cushion to your client's body shape and weight

Two compartment layout limits sliding

Easy to clean and disinfect

The Vicair Liberty is an easy to use and comfortable (wheelchair) cushion. It is designed for those who require comfort in combination with a low to medium level of support and pressure ulcer prevention. The cushion is ready-for-use, rain proof and with two compartments it provides an even pressure distribution. This makes it an ideal cushion for occasional use in a large variety of situations.

This Vicair cushion is extremely lightweight.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲△
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲△

Positioning

Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲△
Sliding prevention	▲▲▲▲△
Allows manual adjustments	▲▲▲▲△
Allows easy transfers	▲▲▲▲△

Maintenance & Safety

Durability	▲▲▲▲△
Reliability	▲▲▲▲△
Functionality when misused	▲▲▲▲▲
Low maintenance level	▲▲▲▲▲
Level of hygiene	▲▲▲▲▲

Functionality & Application

Comfort	▲▲▲▲△
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲△
Maximum user weight	▲▲▲▲▲
Low seat to floor height	▲▲▲▲▲
Auto adjustments	▲▲▲▲▲

USED WITH

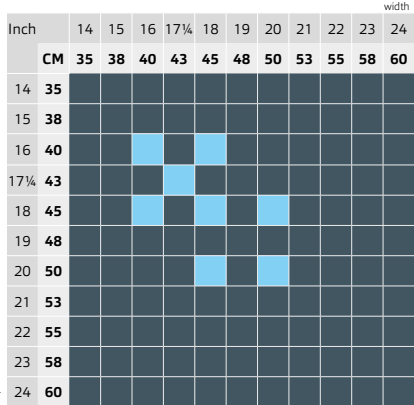
Osteoarthritis/arthritis, rheumatism, spondylitis, pain relief, mobility problems, in a geriatric environment.

TECHNICAL SPECIFICATIONS

Height	5 cm
Average weight	350 grams
Max. user weight	150 kg

CUSHION SIZES

- Standard
- Not available



The VICAIR logo is displayed in a bold, white, sans-serif font on a black rectangular background. The word "VICAIR" is followed by a registered trademark symbol (®).

VICAIR[®]

SOFT BACK

Extremely lightweight

Easy to apply

Easy to set up

**Highly adjustable,
so better positioning
options and comfort**

Little to no maintenance

SPECIFICALLY DESIGNED FOR REA AZALEA

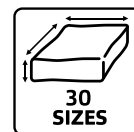


Under its cover you will find **SmartCell-compartments** for pressure redistribution and positioning

Cover made of 3D mesh spacer fabric for extra comfort and microclimate control



Two side compartments for lateral support | Easy to combine with side supports



Superior pressure distribution and optimal positioning

13 adjustable compartments

Built in lateral support

The Vicair Flex Back is a wheelchair back cushion designed exclusively for use with the Invacare Rea Azalea Flex backrest system. The 13 easily adjustable compartments make it an ideal choice for positioning and pressure redistribution. The central compartment allows you to offload around the spinal cord. The Vicair Flex Back has built in lateral supports and can be used in combination with side supports. This Vicair back cushion uses 3D mesh spacer fabric for extra comfort and microclimate control.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲△△
Impact & vibration damping	▲▲▲▲▲

Positioning	▲▲▲▲▲
Lateral stability	▲▲▲▲▲
Frontal stability	▲▲▲▲△
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety	▲▲▲▲▲
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application	▲▲▲▲△
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	△△△△△
Auto adjustments	▲▲▲▲△

USED WITH

Scoliosis, Kyphosis, Neuromuscular diseases, Spinal cord injuries, pressure sore on back/spine/shoulder, pain relief

TECHNICAL SPECIFICATIONS

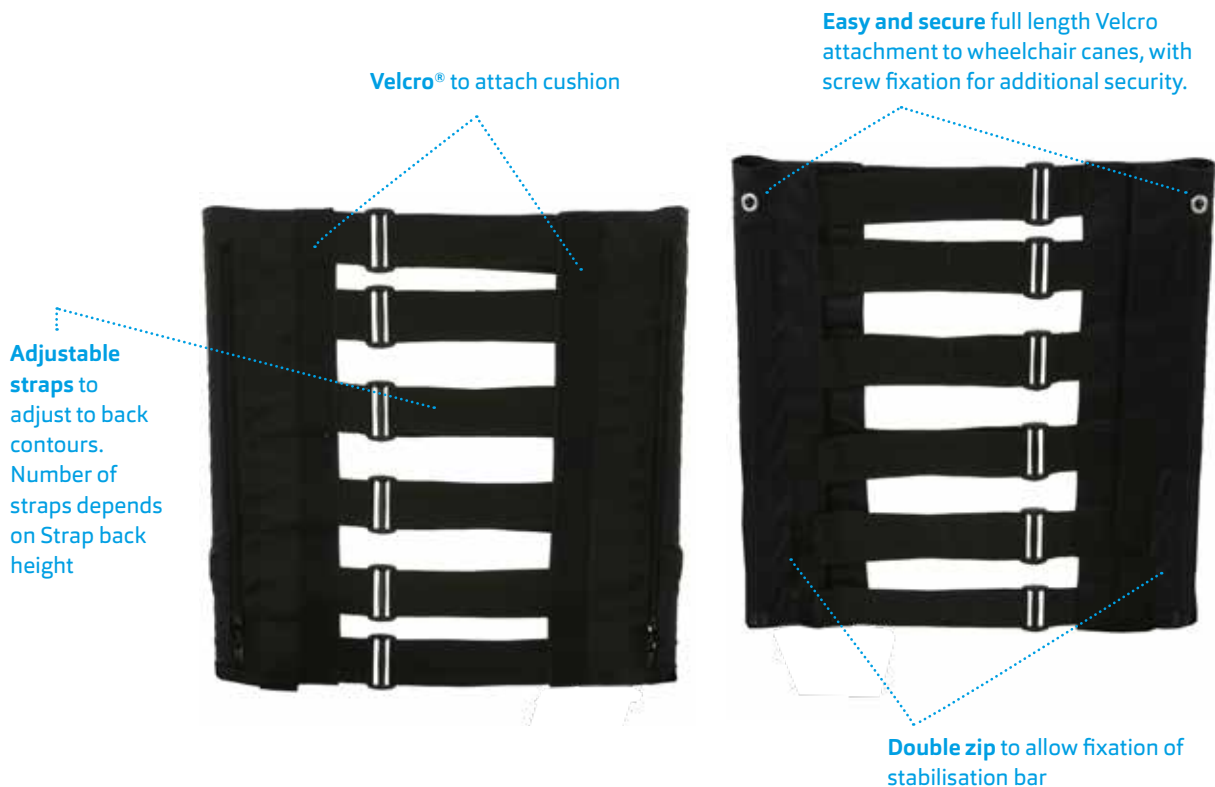
Height	32-56 cm
Average weight	900 grams
Max. user weight	150 kg

CUSHION SIZES

- Standard
- On request

Inch	16½	17¼	18	18¾	19½
CM	41	43	45	47	49
22	55	56	57	58	59
22½	56	57	58	59	60
23	57	58	59	60	
23½	58	59	60		
24	59	60			

TENSION ADJUSTABLE FOR THORACIC STABILITY SUPPORT AND POSITIONING



Very lightweight

Easy to apply

Perfect positioning and comfort qualities

The Vicair tension-adjustable (Strap) back is a perfect base for Vicair wheelchair back cushions. Quickly installed and combined with your choice of Vicair back cushion it is a high quality alternative to your standard wheelchair back system. The adjustable straps enhance the function of the Vicair back cushions, by offering thoracic stability and back-rest positioning.

USED WITH

Vicair Liberty back, Vicair Anatomic back

TECHNICAL SPECIFICATIONS

Max. user weight 150 kg

OPTIMAL POSITIONING AND SUPPORT



Optimal positioning through a combination of SmartCells and Strap back

Offloading the spinal column

Dynamically moulds to a person's back contours

The Vicair Anatomic back is a highly comfortable universal back system, that enables optimal positioning and high quality pressure redistribution. Ready for use, as it dynamically molds to the contours of the client's back, but also allowing a large variety of individual adjustments. Adjustments can be made with the client still leaning against the cushion. The lightweight cushion is used in combination with the easy-install Vicair Strap back and can be used in wheelchairs without a back support plate. It is extremely suitable to use with (extreme) Scoliosis. The Anatomic back follows asymmetric body contours and keeps your client safe and stable.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲△△
Impact & vibration damping	▲▲▲▲△

Positioning	▲▲▲▲△
Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲△
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety	▲▲▲▲▲
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲▲
Level of hygiene	▲▲▲▲△

Functionality & Application	▲▲▲▲△
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	△△△△△
Auto adjustments	▲▲▲▲△

USED WITH

Scoliosis, Kyphosis, Neuromuscular diseases, Spinal cord injuries, pressure sore on back/spine/shoulder, pain relief

TECHNICAL SPECIFICATIONS

Height	32-56 cm
Average weight	900 grams
Max. user weight	150 kg

CUSHION SIZES

- Standard
- On request

Inch	width				
	12	14	16	18	20
CM	30	35	40	45	50
12¾	32	35	40	45	50
16	40	45	50	55	60
19¼	48	55	60	65	70
22½	56	65	70	75	80

CLINICAL CASE Treatment of a category IV pressure ulcer on the spine of a CVA client and solving lateral trunk instability

Medical history

Mr. W. is an active 80-year-old male, who is still living life to the fullest. In 2010 Mr. W. suffered a CVA (aneurism in the cerebri media), resulting in a coma and hemiplegia. After one day Mr. W. awoke from his coma. Surgery was performed immediately, including a coiling procedure, at the Academic Medical Centre in Alkmaar (The Netherlands).

After a 6-month rehabilitation period at the Military Rehabilitation Centre Aardenburg, Mr. W. had recovered from the paralysis of his left leg caused by the CVA.

In 2011 a manual wheelchair was purchased, as the fatigued Mr. W. still wanted to fully participate in society. Because of his poor posture in this chair, a category II pressure injury on his spine developed. In an attempt to solve the poor posture and the pressure injury, the Rehabilitation Centre's occupational therapist prescribed a power tilt-in-space wheelchair, with the intention that this chair would help to improve the body posture. The chair's tilt-function should also redistribute the pressure.

However, in the period 2011-2014 the pressure injury problem was never fully resolved. In this period the kyphotic posture got worse because of osteoporosis. To treat fibromyalgia a low dose of prednisone was added to the list of daily medication. The patient also increasingly suffered from polyneuropathy, resulting in intense sharp pains.

In 2015 I became Mr. Th. W.'s outpatient occupational therapist. I asked the local council health department to provide him with a Vicair back cushion.

Definition of the problem

The tilt-in-space chair was provided with a Deep Contour foam back cushion. This back cushion provided insufficient pressure redistribution. Also it did not provide optimal body posture as it was not able to fully follow the kyphotic body contours. The small wound on his spine had progressed into a category IV pressure injury (see pictures).



February 2012

May 2012



January 2015

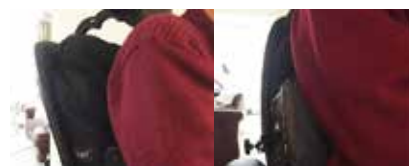
March 2015



April 2015

June 2015

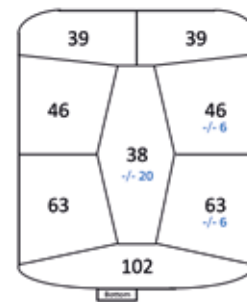
The intended purpose of the application of the vicair back cushion



Vicair Multifunctional back with Vicair Custom Made lateral support. Through the use of the Vicair Multifunctional back we were able to offload the pressure on the pressure injury area. We removed SmartCells from the centre compartment to achieve this.

Because of the depth of the Vicair back support we were better able to follow the contour of his kyphosis, resulting in improved pressure distribution.

When Mr. W. became tired, he tended to lean to the right. By fixing a lateral support with a Vicair custom made insert on it to the wheelchair back, Mr. W. was sufficiently supported and able to maintain his upright position. The Vicair custom made insert should also help to optimally redistribute pressure to prevent pressure sores in that area.



Fillingrade overview + adjusted compartments

Results

Mr. W. feels that he is finally in control of his own seating position. Reduction of the pain relief medication: from 8 to 2 daily morphine pills. After 3 months of using the Multifunctional back

The pressure redistribution and high level of comfort provided by the Vicair Multifunctional back, enable the patient to rest in the tilt position of his chair without experiencing any pain.

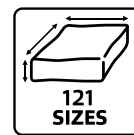
Mr. W. experiences less pain when driving in his power wheelchair. This increases his independence.

The category IV pressure injury on his spine has healed (see picture). Final analysis shows by using the Vicair Multifunctional back and lateral support, Mr. W.'s comfort, pressure redistribution and stability have improved significantly. With the pressure injury healed Mr. W. has more independence, as the amount of wound care and pain medication could be reduced. Because of this Mr. W. has a clearer mind and is able to stay active for longer periods during the day.

Altogether these improvements enable Mr. W. to do what he wants to do most: to live life to the fullest.

Anneke Vogelenzang
OT & Owner "Ergotherapie West-Friesland" Occupational Therapy centre

**POSITIONING, COMFORT, SUPPORT AND SKIN PROTECTION
IN SOLID BACK (TILT-IN-SPACE) WHEELCHAIRS**



**PRESSURE
ULCER
TREATMENT**

**Optimal immersion
when using a solid back
wheelchair**

**Easy to adjust while the
client leans against the
cushion**

**Optimal pressure
redistribution**

Excellent pressure redistribution, comfort and support make this back cushion perfect for use in a large variety of situations. It can be used in several types of back systems and in tilt-in-space chairs with adjustable seat depth. The cushion is easily fixed onto the solid backrest by use of Velcro®. Although it automatically adapts to the body's contours, the cushion can also be adjusted for optimal positioning, while the client is still leaning against the cushion. Optionally available is a head support cushion, for ultimate comfort and pressure redistribution.

PRODUCT PERFORMANCE

Skin protection / Anti decubitus	▲▲▲▲△
Pressure redistribution	▲▲▲▲▲
Shear reduction	▲▲▲▲△
Micro climate control	▲▲▲▲△
Impact & vibration damping	▲▲▲▲▲

Positioning	▲▲▲▲△
Lateral stability	▲▲▲▲△
Frontal stability	▲▲▲▲△
Sliding prevention	▲▲▲▲▲
Allows manual adjustments	▲▲▲▲▲
Allows easy transfers	▲▲▲▲△

Maintenance & Safety	▲▲▲▲▲
Durability	▲▲▲▲▲
Reliability	▲▲▲▲▲
Functionality when misused	▲▲▲▲△
Low maintenance level	▲▲▲▲△
Level of hygiene	▲▲▲▲△

Functionality & Application	▲▲▲▲△
Comfort	▲▲▲▲▲
Low cushion weight	▲▲▲▲▲
Available size range	▲▲▲▲▲
Maximum user weight	▲▲▲▲▲
Low seat to floor height	△△△△△
Auto adjustments	▲▲▲▲△

USED WITH

Neuromuscular diseases, Scoliosis, Kyphosis, Lordosis, Gibbus, Quadriplegia, pain relief, in a geriatric environment

TECHNICAL SPECIFICATIONS

Height	36-60 cm
Average weight	1.300 grams
Max. user weight	150 kg

CUSHION SIZES

- Standard
- On request

		width											
	Inch	14¼	14½	16	16¼	17¼	18	18¼	19	20	21½	22¼	24
	CM	36	37	40	41	43	45	46	48	50	54	58	60
height	14¼	36											
	15	38											
	16	40											
	17¼	43											
	18	45											
	19	48											
	20	50											
	21	52											
	21½	54											
	22¼	58											
	24	60											

IMMEDIATE RELIEF

Double rings on the 4 corners of the mattress, to loosely attach bedsheets to prevent "hammocking"

36 compartments with dynamic SmartCell air-filling



Combination of middle layer and low friction mattress cover to minimize shear forces and optimize immersion



Optimal pressure redistribution

Pain relief

Extremely suitable for immobile individuals

Pain relief, unrest reduction, pressure ulcer prevention. These are just some examples of the immediate relief provided by the Vicair Mattress 415.

The design offers optimal pressure redistribution, reduction of shear forces, optimal immersion and stable – yet comfortable – positioning. Even with existing decubitus stage I-IV (clinically proven. Visit www.thinkpressurecare.co.uk for more information).

If a situation requests an individual solution: custom sizes and shapes are available on request.

The Vicair Mattress 415 is low maintenance and comes with a fluid proof cover.

It can be used on any type of bedframe and bedframe position (e.g. fowler's position).

CPR can be performed on a patient without the use of a board.

The Vicair SmartCell air-filling makes the Vicair Mattress 415 an extremely lightweight and non-powered alternative to other air-technique replacement mattresses.

USED WITH

Pressure ulcers (stage I-IV), rheumatism, burn victims, terminal illness, spasms, kyphosis, pain management.

TECHNICAL SPECIFICATIONS

Height	15 cm
Average weight	10 kg
Max. user weight	250 kg

MATTRESS SIZES

- Standard
- On request

Inch	width																									
	27	28	30	32	34	36	38	40	42	44	46	48	CM	68	70	75	80	85	90	95	100	105	110	115	120	
56	140																									
72	180																									
74	185																									
76	190																									
78	195																									
80	200																									
82	205																									
84	210																									
86	215																									
88	220																									

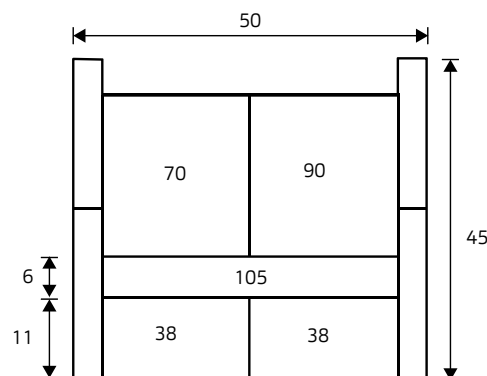
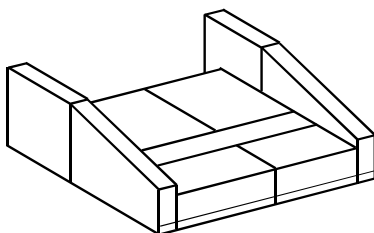
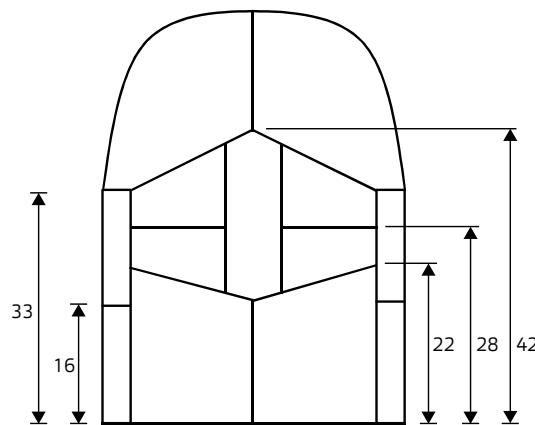
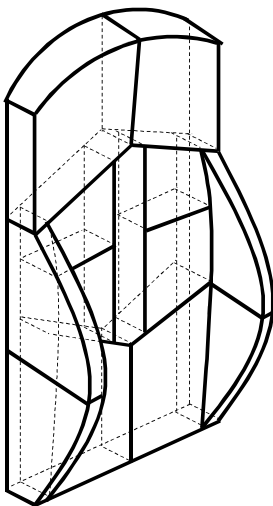
CUSTOM MADE ENDLESS POSSIBILITIES

Medical practitioners often work with complex cases in the field of seating and positioning. Generally our Vicair Adjuster O2 and Vector O2 cushions are able to offer a solution, but sometimes it is necessary to provide a solution that is custom made for the client. For those situations it is possible to create a Vicair Custom Made seat- or back cushion.

For 25 years Vicair has been creating products specifically designed for clients with complex disabilities or with specific body contours. The flexibility of the Vicair technique, based on SmartCells, makes this relatively easy to do. Our R&D team department consists of a medical doctor, a product manager and a product designer.

The request for a Vicair Custom Made product is usually made by one of the product specialists of our distributors. They work closely together with the medical practitioner in the process of ordering the Vicair Custom Made product.

First the specific case is discussed in a Vicair R&D team meeting. Based on the description of the client's medical background and needs, the R&D department is able to start designing the product and a creates a 3D drawing. The drawing will be discussed with the product specialist and the medical practitioner. After the design has been approved, the production of the cushion commences. Vicair has its own Product Design Studio, so within a few weeks the Vicair Custom Made product is ready to be shipped. The medical practitioner further guides the installation of the product.



QUALITY WARRANTY ISO



Quality

Vicair is devoted to the development and production of products that will positively influence the daily comfort of the wheelchair user, to offer him or her as much freedom as possible.

We expect our products to be of very high quality, to ensure a reliable and safe result. During production all procedures and processes are performed as documented in our quality management system, in which we have implemented the applicable ISO standards and CE regulations.


Warranty

Vicair offers a limited warranty against defects in workmanship and materials for a period of 24 months (for mattresses this is 5 years) after the original date of purchase, provided the product has been used normally. Any damage arising from abnormal use, or caused by improper handling, cleaning, or negligence, is excluded from this warranty. Should a defect in materials or workmanship occur within 24 months (for mattresses this is within 5 years) from the original date of purchase, Vicair will, at its own choice, repair or replace the product free of charge. The cushion cover is excluded from this warranty. The new generation Vicair SmartCells (grey with black logo print) have a lifelong warranty period.

Remedies for breach of express warranties herein are limited to repair or replacement of the product. In no event shall damages for breach of any warranty include any consequential damages or exceed the cost of non-conforming goods sold.

ISO certified

Vicair is ISO 13485 certified. This means it has a comprehensive quality management system for the design and manufacture of medical devices.

watch the 6-Point SmartCell Safety Check
video online  YouTube



relief by air

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