



Supporting your needs



The Cushions Catalogue - A Better Way to Sit

From Healthcare Innovations Australia



raft

The New Varilite JUNIOR

Paediatric Seating - Sized for Children

The new Varilite JUNIOR Cushion is proportionally designed for a child's body, keeping in mind that children are not small adults. The JUNIOR cushion uses Varilite's patented Air Foam Floatation technology, that immerses the child's body into air for great comfort, while the foam holds the body in position. The Varilite Junior cushion is lightweight, compact, and simple to use, for maximum support with minimal fuss.



Good Posture

The Varilite JUNIOR features the Multi-stiffness foam with a non-intrusive thigh abductor. The Multi-stiffness foam promotes immersion and stability, while the added thigh abductor promotes the natural femoral position from an early age.



Quick Adjustments

Making adjustments to the Varilite JUNIOR cushion is quick and simple. The cushion has a valve allowing self-inflation which can be adjusted easily to release air. While the child is seated on a fully inflated cushion, the valve can be released allowing air to escape, to give the right amount of immersion and comfort.



Easy to Clean

Keeping kids in mind, and letting them be kids, the Varilite JUNIOR cushion itself has been designed to be waterproof, while the cover is water resistant and machine washable.



Varilite Junior Seat Cushion

Dimensions (WxD)	10x10" (25x25cm)
Thickness	2.9" (7.4cm)
Weight	260g
Order Code	71120



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What are You Looking for in a Cushion?

For anyone who has to spend any extended time on a cushion, the first concern will always be tissue integrity. We all know the discomfort of sitting for more than 20 minutes on a theatre or restaurant seat where the foam has seen better days, or sitting on a plastic or vinyl-covered seat on a warm day with nowhere for the perspiration to go.

Tissue Integrity

Friction and Shear

One of the most frequent causes of tissue damage occurs during transfers on and off the cushion. Use of a smoother incontinence cover rather than a mesh cover, reduces the risks from friction. On the other hand, people do not like very slippery surfaces, since they find it difficult to keep their posture.

Shear is a much more complicated matter, and reflects on what is happening between the layers of the skin, and to the individual cells in the tissues of the backside. Current thinking is that differential pressures across a skin cell can distort it to the extent that the cell membrane is compromised, and cell contents thereby unbalanced, leading eventually to cell death. This has a more immediate damaging effect than occlusion of blood vessels affecting nutrient perfusion of the cells. To reduce the potential cell damage we want a cushion that will spread the forces on the skin as broadly and evenly as possible.

Fail Safe

When selecting a cushion consider the consequences for the individual, and the risk of tissue damage, in the event of failure. Pure air cushions, if punctured, can leave the user without any protection. Fillings that move out of place can leave the ischials exposed. Foam that develops a set will no longer provide immersion. Etc

Microclimate

Of the factors that can lead to pressure ulcers developing, the most common ones are those that affect the stratus corneum and epidermis, the outer layers of the skin. Apart from the effects of friction mentioned above, the microclimate is the next most important. It is important that the cover of a cushion is breathable so that water vapour from perspiration can wick away, and air to circulate. Moist skin will undergo greater frictional forces than dry skin, and therefore it is important to maintain a microclimate around the skin that reduces this risk.

Temperature

Sitting on a cold material that takes time to get close to body temperature will cause blood capillaries to close down, and affect the nutrient supply to the skin. On the other hand, one degree Celsius increase in temperature lifts the metabolic rate by 13 %, and thus if the skin tissues heat up, there is higher demand for oxygen and nutrients, and a greater need to remove metabolites. A cushion cover, and cushion materials that allow for temperature regulation within a limited range will obviously be beneficial to the user: not cold to sit on and no tendency to heat up with time. Good airflow around the skin is the sign of a good cover design.

- All Varilite cushions are available with smooth incontinence cover options

- Varilite cushions fail safe in that even with a puncture you have the benefits of the foam part of the air-foam mix in each cushion

- All Varilite covers are water vapour-permeable
- The reticulated foam lining of Varilite covers allows water vapour and air to circulate

- The materials in our cushions adjust quickly to the individual's temperature avoiding metabolic stress
- The reticulated foam lining to Varilite covers assists in air circulation and temperature regulation

Pressure – Immersion and dispersion

Where the factors listed above affect the outer layers of the skin and can lead to Stage 1 and 2 ulcers, pressure differences have a greater impact on deeper tissues especially around bony prominences such as the ischial tuberosities. Since altering an individual's mass is not a ready option, the best way to reduce the forces around the deep tissues is to spread the forces over a wider area underneath the buttocks, displace more under the thighs than under the pelvis, and take forces where possible under the feet, forearms, and back. To achieve the spread of forces over a wider area we look for greater dispersion, and this can be achieved by increased immersion into a cushion, and this is best achieved by air dispersion in an air-filled or air-foam cushion.

Be careful when considering using a cushion that has been contoured to an individual's backside. For example, following a Spinal Cord Injury (SCI) the buttock tissues will atrophy over the first few months after injury, so what was a good fit for optimal immersion, after a while will cease to be a good fit. What happens next is that fatty deposits build up in the skin tissues, and over the next few months the tissues will grow to a greater volume than immediately after the injury, and the 'overflow' around the contoured shaping puts damaging stresses on the buttock tissues in these areas.

The thigh tends to be much larger at the hip end than at the knee end. Thus the natural biomechanics of the positioning of the femur mean that to get pressure redistributed evenly along the thigh, the feet need to be dropped close to the floor, or else you need a wedge under the thighs.



Fig 1. Controlling the Pelvis

Avoid the temptation to achieve this by putting 'dump' into the seat, since this will put the individual into a posterior tilt, lead to a kyphotic spine, and impair physiological function due to restriction of the abdominal space.

Likewise, it has been found that adding gluteal support at the rear of the cushion into this softer tissue can take pressure from the bony parts of the pelvis – also has postural benefits, which brings us to:

- Varilite's air foam mix gives the benefit of optional immersion and pressure redistribution

- Varilite Evolution cushions are available with a wedge insert to distribute pressure under the thighs without compromising a neutral pelvis

- The firmer lateral and posterior foam elements within a Varilite cushion provide gluteal and trochanteral support
- The Wave base accessories provide additional support in these areas

Posture

To discourage the development of a kyphotic or scoliotic spine, we try to have the pelvis in a neutral position, and minimise any obliquity.

Thigh positioning

The natural position for the femurs to rest in the hip joint is five degrees of abduction.

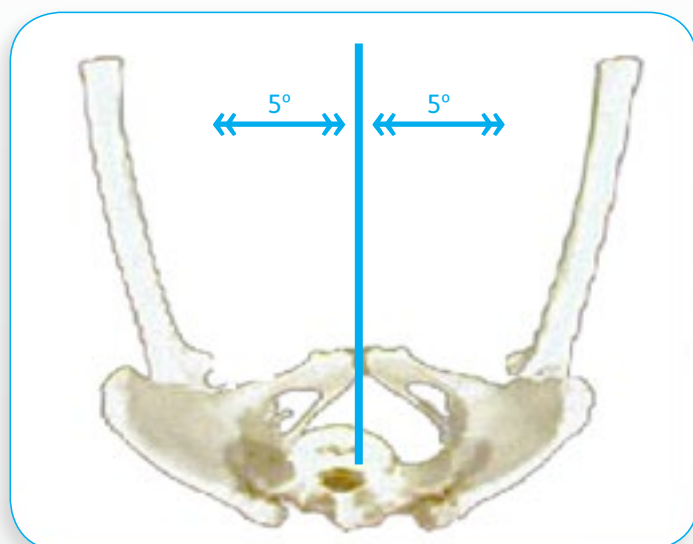


Fig 2. Natural Hip Joint

It is important that sling seats are not allowed to bow since this tends to bring the knees together. A crescent infill, or a firm base under the cushion help to overcome this tendency in the seat.

Pelvic positioning

The design of a cushion to envelop the pelvis will help to stop it sliding out of a neutral position. Anteriorly, a pre-ischial ridge, which should be no more than 0.5 cm in height to avoid undue pressures to the anterior of the ischials, helps to stop the pelvis slipping forward as the individual relaxes into a posterior tilt. The benefit is lost without a PSIS block to stop the pelvis rotating posteriorly (see Fig 1).

Laterally and posteriorly there should be support to help control lateral or rotational tendencies. The lateral supports can also provide a trochanteral ledge to help offload forces from the ischials.

To deal with obliquities, ideally the cushion can be built up more on one side or reduced in height on the other. In some cases this will be to accommodate the deformity, and in others, where there is flexibility, it can help to decrease the degree of asymmetry over time.

Stability

To maintain a good posture, and to be able to achieve day-to-day activities, it is important that the cushion is stable and supportive. This has to be balanced with any effects that components of the cushion may have on transfers.

- Central firmer foam inserts in most Varilite cushions encourages appropriate thigh abduction

- The foam mix inside Varilite cushions provides a pre-ischial ridge to help keep the pelvis in place and provide greater immersion under the ischials

- The Varilite ProForm has variable adjustability under each ischial tuberosity, allowing accommodation of obliquities.

- The foam element of the air-foam mix in Varilite cushions provides for surface stability for the user

Functionality

A cushion needs primarily to give protection to the tissues and to provide for good long term posture, but has also to be functional. The following section looks at what most consumers feel are important aspects.

Weight

The weight of the cushion is important – if you obtain a lightweight chair for ease of propulsion, then there is no point in negating this with a heavy cushion. In addition, when moving the cushion in and out of the chair, the user can do without strain on the shoulders caused by moving a heavy weight. Before the final selection of the cushion the user should test out this aspect of functionality.

User weight limit

Some cushions are designed to work within only a narrow range of user weights, while others have no upper weight limit.

Comfort

In Crane's research (Crane 2004) she found that the most important criterion for users was comfort. The challenge with this is that comfort is so subjective, and will be built up from a combination of feelings e.g. softness, stability, support, security etc.

Cleanability

Are the covers washable at temperatures high enough to kill microbes (>60C)? Note: it is recommended that users obtain two covers as a minimum so that there is one for use while the other is in the wash. Medical CE marking regulations include the requirement that the Instructions for Use for the cushion include washing instructions, and this includes the cushion components as well as the cover.

Low maintenance

The user or carer has enough to handle in the day, and so looks for easy and/or low maintenance. People do not want the hassles of resetting components, finding adjustment tools, etc. They just want the cushion.

Vibration dampening

One of the phenomena that users find fatiguing is the vibrations transmitted through their seating system, and thus it is better to select a cushion with higher vibration dampening (one of the ISO 16840-2 tests).

Durability

Many seating materials perform very well on the day of purchase, but lose their performance over time. For example, new foam is a very good material for immersion, but over a relatively short time can develop a 'set' which stops dispersion of the sitting pressures. The new ISO standard, ISO 16840-6 addresses the changes of properties with use, and takes an important new line on classifying cushions, namely by type of use (e.g. for sports, in a humid climate, in a hot climate, etc) and not by their materials, 'high' risk, postural etc, which are criteria used by the commodity oriented purchasing bodies.

- Varilite cushions live up to their name, and this benefit has been appreciated for nearly 25 years

- Varilite cushions may be used effectively by people of any weight

- Varilite covers are machine washable, and come with washing instructions on their labels
- Varilite cushion pads have impermeable covers which can be washed easily

- Varilite air-foam cushions need very little attention week by week
- Adjustment is by use of the in built valve and the natural ability of the foam element to revert to its original shape. No pumps needed

- RESNA study (RESNA 2000) showed that varilite cushions absorbed vibrations better than other well-known cushions

- Varilite cushions come with a 2-year warranty (covers 1-year) and usually provide the same benefits 5 years later as on day 1
- The air in the air-foam mix stops the foam from developing a 'set'



Tissue Integrity

	Evolution	Meridian	Wave Adaptation	ProForm NX	Zoid	Reflex	Raft Posture Seat/Plus and Wheelchair Seat
Immersion	✓✓✓	✓✓✓	N/A	✓✓✓	✓✓	✓✓	✓
Dispersion away from bony areas	✓✓✓	✓✓✓	✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓
Air/water vapour circulation	✓✓✓	✓✓✓	N/A	✓✓✓	✓✓✓	✓	✓✓
Temperature balance	✓✓✓	✓✓✓	N/A	✓✓✓	✓✓✓	✓✓	✓
Fail safe	✓✓✓	✓✓✓	N/A	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Stretch covers	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Choice of covers	Yes	Yes	Yes	Yes	Yes	No	No
Transfer damage risk (from friction and/or Shear)	Reduced	Reduced	Reduced	Reduced	Reduced	Reduced	-

Posture

	Evolution	Meridian	Wave Adaptation	ProForm NX	Zoid	Reflex	Raft Posture Seat/Plus and Wheelchair Seat
Neutral pelvis	✓✓✓	✓✓✓	N/A	✓✓✓	✓	✓	✓✓
Pre-ischial Ridge	✓✓✓	✓✓✓	N/A	✓✓	✓✓✓	✓✓	-
Stability	✓✓	✓✓	N/A	✓✓	✓✓	✓✓	✓✓✓
Lateral support	✓✓	✓✓	✓✓✓	✓✓✓	✓✓	✓✓	✓
Thigh abduction	✓✓	✓✓	✓✓✓	✓✓✓	-	✓✓✓	✓✓
Trochanteral ledge	✓✓	✓✓	✓✓✓	✓✓✓	✓✓	✓✓	✓
Obliquity management	-	-	✓✓	✓✓✓	-	-	-
Gluteal support	✓	✓	✓✓✓	✓✓	✓	✓	✓

Functionality

	Evolution	Meridian	Wave Adaptation	ProForm NX	Zoid	Reflex	Raft Posture Seat/Plus and Wheelchair Seat
Lightweight	✓✓✓	✓✓✓	✓✓	✓✓	✓✓✓	✓✓✓	✓✓
Comfort	✓✓✓	✓✓✓	N/A	✓✓	✓✓	✓✓✓	✓✓
Enables day to day activities	✓✓	✓✓	N/A	✓✓	✓✓✓	✓✓	✓✓✓
Vibration dampening	✓✓✓	✓✓✓✓	N/A	✓✓	✓✓	✓✓✓	✓
Low maintenance	✓✓	✓✓	N/A	✓✓	✓✓	✓✓✓	✓✓✓
Machine washable cover and wipe down cushion	✓✓✓	✓✓✓	N/A	✓✓✓	✓✓✓	✓✓✓	✓✓✓
Visible directions for use	✓✓	✓✓	N/A	✓	✓✓	✓✓	✓✓
Functional life	✓✓✓	✓✓✓	✓✓✓	✓✓✓	✓✓	✓✓	✓✓✓
Warranty	2 year - cushion 1 year - cover	2 year - cushion 1 year - cover	2 year - cushion 1 year - cover	2 year - cushion 1 year - cover	2 year - cushion 1 year - cover	2 year - cushion 1 year - cover	1 Year
Size range	10x10" - 24x20"	12x14" - 24x20"	12x14" - 24x20"	12x14" - 20x20"	12x8" - 24x20"	12x11" - 20x20"	15x15" - 18x16"
User weight limit	None	None	None	None	None	None	160kg
Usability	✓✓	✓✓	N/A	✓✓	✓✓	✓✓✓	✓✓✓
Stability	✓✓	✓✓	N/A	✓✓	✓✓	✓✓	✓✓✓
Customisability	✓	-	✓✓✓	✓✓✓	-	-	-

The Evolution



The cushion of choice for wheelchair users with a high risk of tissue breakdown and symmetrical positioning needs

Available With the Following Options:

Cover:	Mesh or Incontinence
Valve:	Standard or PSV
Accessories:	Wedge or Wave Bases
Size Range:	10x10" - 24x20"

Tissue Integrity

Immersion	✓✓✓
Dispersion away from bony areas	✓✓✓
Air/water vapour circulation	✓✓✓
Temperature balance	✓✓✓
Fail safe	✓✓✓
Stretch covers	Yes
Choice of covers	Yes
Transfer damage risk (from friction and/or shear)	Reduced

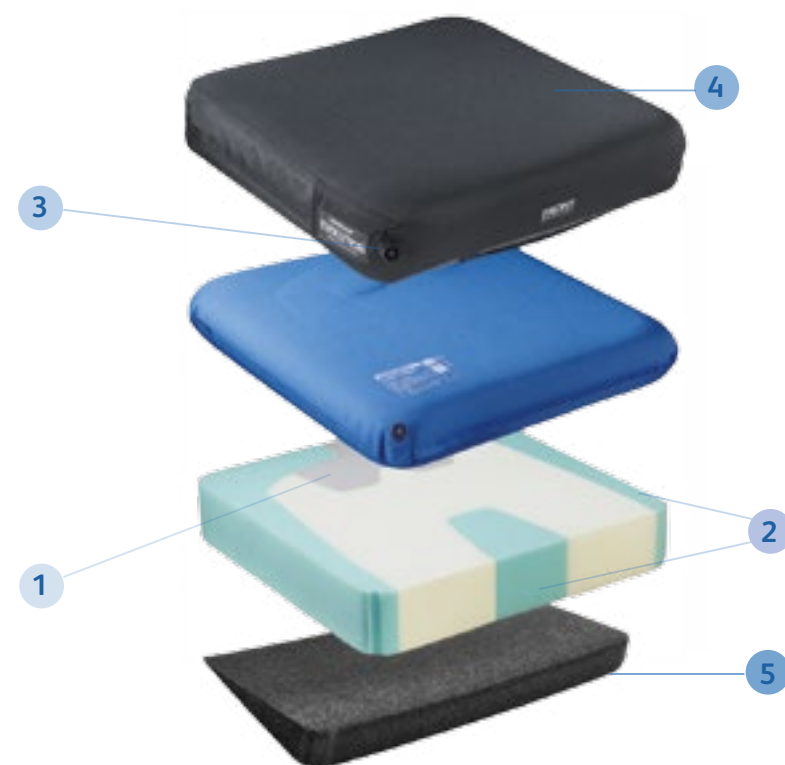
Posture

Neutral pelvis	✓✓✓
Pre-ischial Ridge	✓✓✓
Stability	✓✓
Lateral support	✓✓
Thigh abduction	✓✓
Trochanteral ledge	✓✓
Gluteal support	✓

Functionality

Lightweight	✓✓✓
Comfort	✓✓✓
Enables day to day activities	✓✓
Vibration dampening	✓✓✓
Low maintenance	✓✓
Machine washable cover/wipe down cushion	✓✓✓
Visible directions for use	✓✓
Functional life	✓✓✓
Warranty	2 year - cushion 1 year - cover
Size range	10x10" - 24x20"
User weight limit	None
Usability	✓✓
Stability	✓✓
Customisability	✓

The Evolution Cushion



1. Air-Foam Floatation

The functional areas of the cushion are created by three types of foam; soft foam under the decubitus-sensitive area of the ITs; medium foam for the thigh trough, pelvic bucketing and pre-ischial bar; and firm foam to provide support through the perimeter and medial thigh separator.

2. Positioning Supports

Positioning supports improve stability, which is important for users with compromised sitting balance or who transfer frequently. Multi-stiffness foam provides support as the user is immersed in the cushion. Medial and lateral supports minimise internal and external lower extremity rotation. Pelvic bucketing and a pre-ischial ridge help maintain pelvic position, and thigh troughs promote a natural femoral position.

3. Valve for Adjusting Air Volume

The Evolution PSV uses Varilite’s patented Pressure Setting Valve. The Evolution is also available with a traditional two-way Varilite valve.

4. Cover

The Evolution comes complete with either a mesh or incontinence cover made from a breathable two-way stretch fabric. Reticulated foam inside promotes air exchange and improves pressure redistribution. The Evolution cover is machine washable, tumble dryable and meets ISO 7176-16 ignition resistance standards for upholstered wheelchair components.

5. Wedge

A modifiable closed-cell foam wedge is available with each Evolution, to assist pressure redistribution from the sensitive ITs onto the thighs. (See also Evolution and Meridian Accessories pg 18)

Varilite Standard Wedge used in conjunction with the Evolution

Our Varilite Standard Wedge reduces the seat to back angle which increases the weight-bearing load on the back of the thighs and decreases the load on the buttocks. The 5cm (2”) tapered wedge trims easily for custom fitting to meet individual needs.

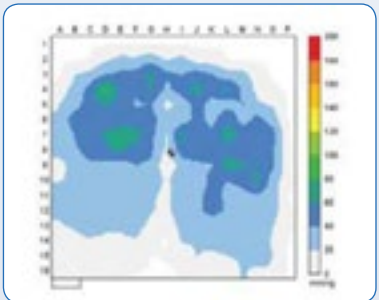


Fig 1. FSA Pressure Mapping without Wedge

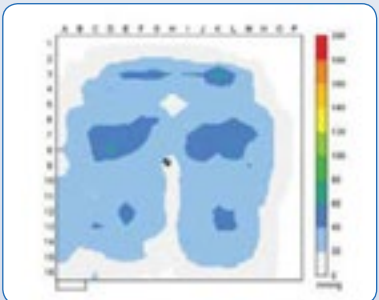


Fig 2. FSA Pressure Mapping with Wedge

As air is released from the cushion, the user becomes immersed in the foam. The different foams conform to the user’s shape.



Fig 3. Immersion

As immersion increases, the load is distributed over more of the cushion’s surface area and pressure points are reduced. Optimal pressure redistribution is achieved when the load is distributed over the largest surface area.



Evolution											
	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
w/ Mesh Cover	72410	74410	74610	74810	74010	75510	75710	76410	76610	76810	76010
w/ Incontinence Cover	72420	74420	74620	74820	74020	75520	75720	76420	76620	76820	76020
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
w/ Mesh Cover	77710	78610	78810	78010	70610	70810	70010	7281B	7201B	7481B	7401B
w/ Incontinence Cover	77720	78620	78820	78020	70620	70820	70020	7282B	7202B	7482B	7402B

Evolution PSV											
	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
w/ Mesh Cover	72415	74415	74615	74816	74016	75515	75715	76415	76615	76815	76015
w/ Incontinence Cover	72425	74425	74625	74826	74026	75525	75725	76425	76625	76825	76025
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
w/ Mesh Cover	77715	78615	78815	78015	70615	70815	70015	72815	72015	74815	74015
w/ Incontinence Cover	77725	78625	78825	78025	70625	70825	70025	72825	72025	74825	74025

The Meridian



A dual chambered variety of the Varilite Evolution for wheelchair users with high risk of tissue breakdown and symmetrical positioning needs

Available With the Following Options:

Cover:	Mesh or Incontinence
Valve:	Standard x2
Accessories:	Wedge or Wave Bases
Size Range:	12x14" - 24x20"

The Meridian Cushion

Tissue Integrity

Immersion	✓✓✓
Dispersion away from bony areas	✓✓✓
Air/water vapour circulation	✓✓✓
Temperature balance	✓✓✓
Fail safe	✓✓✓
Stretch covers	Yes
Choice of covers	Yes
Transfer damage risk (from friction and/or shear)	Reduced

Posture

Neutral pelvis	✓✓✓
Pre-ischial Ridge	✓✓✓
Stability	✓✓
Lateral support	✓✓
Thigh abduction	✓✓
Trochanteral ledge	✓✓
Gluteal support	✓

Functionality

Lightweight	✓✓✓
Comfort	✓✓✓
Enables day to day activities	✓✓
Vibration dampening	✓✓✓
Low maintenance	✓✓
Machine washable cover/wipe down cushion	✓✓✓
Visible directions for use	✓✓
Functional life	✓✓✓
Warranty	2 year - cushion 1 year - cover
Size range	12x14" - 24x20"
User weight limit	None
Usability	✓✓
Stability	✓✓

The Meridian Cushion



1. Air-Foam Floatation

The functional areas of the cushion are created by three types of foam; soft foam under the pressure risk area of the ITs; medium foam for the thigh trough, pelvic bucketing and pre-ischial ridge; and firm foam to provide lateral support and a medial thigh separator.

2. Dual Chambers

The dual-chamber design of the Meridian allows for independent positioning of the thighs and pelvis. Adjustments are quick and easy, and can be performed with the client seated. The front and back air chambers of the Meridian limit sacral sitting and promote good posture. The pre-ischial shelf created by the dual-chambers stops the ITs from sliding forward, thus limiting a posterior pelvic tilt and sacral sitting. The squeeze created by the separate air chambers provides postural support by 'holding' the client in place.

3. Valves for Adjusting Air Volume

Easy to use, two-way air valves allow simple and efficient adjustment. Once the client is seated on the fully inflated cushion, the right valve can be released allowing air to escape from the pelvic chamber. Once proper immersion of the pelvis has been achieved the user releases air from the front/thigh chamber by opening the left valve. Once optimum load on the thighs has been achieved the valve is closed.

4. Cover

The Meridian is available with a mesh or incontinence cover with breathable two-way stretch material. Reticulated foam inside promotes air exchange and improves pressure distribution. The underside is a rugged nonslip material with hook and loop for added security. The Meridian cover meets ISO 7176-16 ignition standards for upholstered wheelchair components and is machine washable.



Meridian	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
w/ Mesh Cover	72430	74430	74630	74830	74030	75530	75730	76430	76630	76830	76030
w/ Incontinence Cover	72440	74440	74640	74840	74040	75540	75740	76440	76640	76840	76040
Meridian	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
w/ Mesh Cover	77730	78630	78830	78030	70630	70830	70030	7283B	7203B	7483B	7403B
w/ Incontinence Cover	77740	78640	78840	78040	70640	70840	70040	7284B	7204B	7484B	7404B

Evolution and Meridian Cushion Accessories

- Wave Bases
- Spare Covers



Evolution and Meridian Cushion Accessories

Benefits of the Wave Accessories:

The standard Evolution and Meridian Cushions Provide:

A flat seat base under the ischials, which encourages a neutral pelvis and a lordotic spine (compared with an angled base which encourages posterior tilt and a kyphotic spine). A pre-ischial ridge, which reduces the risk of the pelvis sliding forward and rotating into posterior tilt. A ramp under the thighs that takes pressure away from the bony prominences onto safer weight bearing tissues. A PSIS block behind the pelvis will work with the pre-ischial ridge, and an appropriately positioned postural support device (belt) across the thighs, to control pelvic posterior tilt.



The Meridian and Evolution Wave Accessories Provide:


A family of contoured bases for positioning support. Clinicians can combine Meridian and Evolution adjustable Air-Foam Floatation skin protection cushions with a solid 'enhanced positioning' base.

Three different Wave designs are available:

- CPW (Contoured Positioning Wedge)
- LPB (Lateral Positioning Base)
- CPB (Contoured Positioning Base)


These bases enhance the Meridian's and Evolution's natural positioning benefits in the sagittal (anterior - posterior) plane and provide further lateral and medial positioning support (as viewed in the frontal plane) for both the pelvis and the legs, at the same time permitting greater envelopment of soft tissues, and thereby providing wider pressure redistribution away from the bony prominences, such as the ischial tuberosities (ITs). Increased gluteal off-loading of forces on the ITs is a further benefit.

Evolution and Meridian Cushion Accessories




CPW

- Lateral thigh support to control thigh abduction
- Medial thigh support to control thigh adduction



LPB

- Posterior gluteal support to offload pressure from ischials
- Lateral pelvic support
- Lateral thigh support controls thigh abduction
- Solid base of support for postural stability



CPB

- Posterior gluteal support to offload pressure from ischials
- Lateral pelvic support
- Lateral thigh support controls thigh abduction
- Medial thigh support controls thigh adduction
- Solid base of support for postural stability

Varilite Wave Positioning Support Comparison

Each Wave positioning support fits securely beneath the Meridian or Evolution cushion inside the tailored Meridian or Evolution Wave Cover. Further adjustments can be made using Cheat Sheets and/or cut aways. Please ensure you order the correct cover to go with the respective base.

Varilite Wave Positioning Support Comparison Chart					
	Lateral Pelvic Support	Posterior Pelvic Support	Lateral Thigh Support	Medial Thigh Support	Firm Base of Support
CPW (Contoured Positioning Wedge)	-	-	✓	✓	-
LPB (Lateral Positioning Base)	✓	✓	✓	-	✓
CPB (Contoured Positioning Base)	✓	✓	✓	✓	✓

Evolution and Meridian Cushion Accessories

Each Wave design enhances the Multi-Stiffness Foam of the Meridian and Evolution



Cover is shown with cut-away for illustration purposes only

Meridian and Evolution Wave CPW (Contoured Positioning Wedge)

The Meridian and Evolution Wave CPW provide exceptional positioning of the lower extremities for enhanced sitting posture.

Wave Contoured Positioning Wedge

Lateral Thigh supports position the lower extremities and control abduction of the thighs. Medial thigh support provides the correct amount of abduction and controls the adduction of the thighs. The Wave CPW increases the weight bearing load on the lower surface of the thighs and decreases the load on the buttocks, without changing the seat-to-back angle. The closed-cell foam will not absorb fluid and is resistant to bacteria.



Cover is shown with cut-away for illustration purposes only

Meridian and Evolution Wave LPB (Lateral Positioning Base)

The Meridian and Evolution Wave LPB provide a solid base of support and a high degree of pelvic and lower extremity lateral and medial positioning.

Wave Lateral Positioning Base

Posterior pelvic supports help to keep the pelvis positioned in the anterior-posterior line and transfer pressure from the ischial tuberosities to the gluteal tissues. Lateral pelvic supports, located under the trochanters, provide lateral stability that maintains the pelvis in the centre of the seat. Lateral thigh supports position the lower extremities and control abduction of the lower thighs. The Wave LPB provides a firm foundation for postural stability and discourages sling upholstery from bowing. The closed-cell foam will not absorb fluid and is resistant to bacteria.



Cover is shown with cut-away for illustration purposes only

Meridian and Evolution Wave CPB (Contoured Positioning Base)

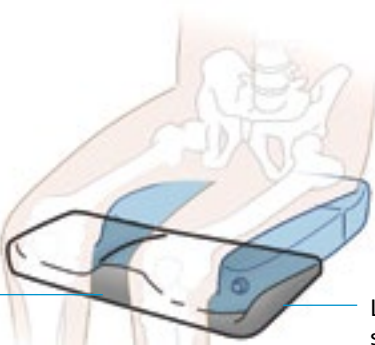
The Meridian and Evolution Wave CPB provide a solid base of support and a high degree of pelvic and lower extremity lateral and medial positioning.

Wave Contoured Positioning Base

Posterior pelvic support helps to keep the pelvis positioned in the anterior-posterior line and transfers pressure from the ischial tuberosities to gluteal tissues. Lateral pelvic supports, located under the trochanters, provide lateral stability that maintains the pelvis in the centre of the seat. Lateral thigh supports position the lower extremities and control abduction of the thighs. Medial thigh support provides the correct amount of abduction of the thighs. The Wave CPB provides a firm foundation for postural stability and discourages sling upholstery from bowing. The closed-cell foam will not absorb fluid and is resistant to bacteria.

Evolution and Meridian Cushion Accessories

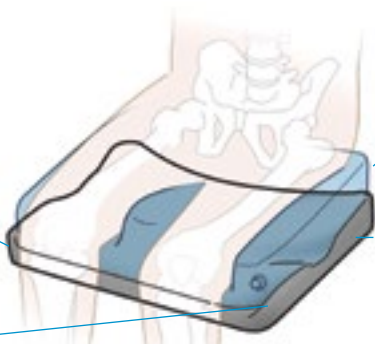
Contoured Positioning Wedge



Medial thigh support to control thigh adduction

Lateral thigh support to control abduction

Lateral Positioning Base



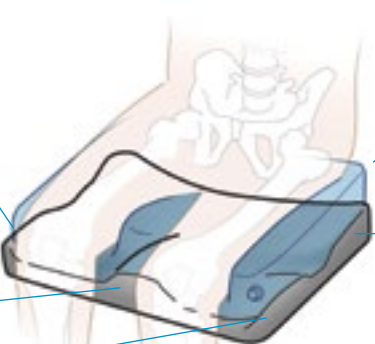
Solid base of support for postural stability

Lateral thigh support to control thigh abduction

Posterior pelvic support taking pressure off ischials

Lateral pelvic support to maintain pelvis in centre of seat and support greater trochanters

Contoured Positioning Base



Solid base of support for postural stability

Medial thigh support to control thigh adduction

Lateral thigh support to control thigh abduction

Posterior pelvic support taking pressure off ischials

Lateral pelvic support to maintain pelvis in centre of seat and support greater trochanters

Meridian, Evolution and Evolution PSV Wave Bases

	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
Contoured Positioning Wedge (CPW)	05410	05411	05412	05400	05401	05402	05403	05404	05413	05414	05415
Lateral Positioning Base (LPB)	05427	05428	05429	05405	05406	05407	05408	05409	05430	05431	05432
Contoured Positioning Base (CPB)	05444	05445	05446	05461	05462	05463	05464	05465	05447	05448	05449
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
Contoured Positioning Wedge (CPW)	05416	05417	05418	05419	05420	05421	05422	05423	05424	05425	05426
Lateral Positioning Base (LPB)	05433	05434	05435	05436	05437	05438	05439	05440	05441	05442	05443
Contoured Positioning Base (CPB)	05450	05451	05452	05453	05454	05455	05456	05465	05447	05459	05460

Evolution and Evolution Wave Spare Covers

	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
Mesh Standard Wedge and CPW Wave	04623	04643	04645	04681	04682	04683	04684	04689	04665	04667	04601
Mesh LPB and CPB Wave	05700	05701	05702	05735	05736	05737	05738	05739	05703	05704	05705
Incontinence Standard Wedge and CPW Wave	04624	04644	04646	04690	04691	04692	04695	04696	04666	04668	04602
Incontinence LPB and CPB Wave	05717	05718	05719	05740	05741	05742	05743	05744	05720	05721	05722
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
Mesh Standard Wedge and CPW Wave	04640	04685	04687	04679	04605	04607	04599	04620	04622	04626	04628
Mesh LPB and CPB Wave	05706	05707	05708	05709	05710	05711	05712	05713	05714	05715	05716
Incontinence Standard Wedge and CPW Wave	04641	04686	04688	04680	04606	04608	04600	04621	04625	04627	04629
Incontinence LPB and CPB Wave	05723	05724	05725	05726	05727	05728	05729	05730	05731	05732	05734

Meridian and Meridian Wave Spare Covers

	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
Mesh Standard Wedge and CPW Wave	02517	02518	02519	02619	02620	02621	02622	02623	02520	02521	02522
Mesh LPB and CPB Wave	02585	02586	02587	02639	02640	02641	02642	02643	02588	02589	02590
Incontinence Standard Wedge and CPW Wave	02534	02535	02536	02624	02625	02626	02627	02628	02537	02538	02539
Incontinence LPB and CPB Wave	02602	02603	02604	02644	02645	02646	02647	02648	02605	02606	02607
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
Mesh Standard Wedge and CPW Wave	02523	02524	02525	02526	02527	02528	02529	02530	02531	02532	02533
Mesh LPB and CPB Wave	02591	02592	02593	02594	02595	02596	02597	02598	02599	02600	02601
Incontinence Standard Wedge and CPW Wave	02540	02541	02542	02543	02544	02545	02546	02547	02548	02549	02550
Incontinence LPB and CPB Wave	02608	02609	02610	02611	02612	02613	02614	02615	02616	02617	02618

ProForm NX



The customisable off-the-shelf cushion of choice for wheelchair users with challenging positioning and postural support requirements

Available With the Following Options:

Cover:	Mesh or Incontinence
Valve:	Standard or PSV
Cushion:	Single or Dual-Chamber
Size Range:	12x14" - 20x20"

Tissue Integrity

Immersion	✓✓✓
Dispersion away from bony areas	✓✓✓
Air/water vapour circulation	✓✓✓
Temperature balance	✓✓✓
Fail safe	✓✓✓
Stretch covers	Yes
Choice of covers	Yes
Transfer damage risk (from friction and/or shear)	Reduced

Posture

Neutral pelvis	✓✓✓
Pre-ischial Ridge	✓✓
Stability	✓✓
Lateral support	✓✓✓
Thigh abduction	✓✓✓
Trochanteral ledge	✓✓✓
Obliquity management	✓✓✓
Gluteal support	✓✓

Functionality

Lightweight	✓✓
Comfort	✓✓
Enables day to day activities	✓✓
Vibration dampening	✓✓
Low maintenance	✓✓
Machine washable cover/wipe down cushion	✓✓✓
Visible directions for use	✓
Functional life	✓✓✓
Warranty	2 year - cushion 1 year - cover
Size range	12x14" - 20x20"
User weight limit	None
Usability	✓✓
Stability	✓✓
Customisability	✓✓✓

The ProForm NX Cushion



A modifiable contoured base, superior pressure redistribution, asymmetrical positioning options, comfort, and simplicity makes the ProForm NX an ideal off-the-shelf solution when a customisable wheelchair cushion is needed

1. Contoured Base

Closed-cell foam base will not absorb fluid and is resistant to bacteria. The base can be cut with a knife or blade to accommodate the individual needs of a client. Laterals and deep ischial pan provide maximum immersion and pressure redistribution. Moulded thigh troughs improve lower-extremity positioning. Flex Hinge allows the base to flex when a Modifiable Wedge is placed underneath.

2. Air Foam Floatation Cushion

Designed for addressing pelvic obliquities and other asymmetrical conditions, our exclusive Air-Foam Floatation cushion contains two self-inflating, independently-adjustable chambers. ProForm NX is also available in a single chamber configuration. Independent research has shown Varilite's Air-Foam Floatation to be the #1 in vibration dampening (RESNA 2000)

3. Modifiable Thigh Cushion

The Closed-cell foam Thigh Cushion contours over the medial thigh separator and anterior laterals for added comfort and stability. The Modifiable Thigh Cushion is easy to modify with a blade or knife to match changes made to the Contoured Base. Non absorbent and washable.

4. Valves for Adjusting Air Volume

Easy to use two way air valves allow simple and efficient adjustment. With a simple turn of the valves, adjustments can be made to the independent right and left pelvic chambers, releasing air to immerse the user in the foam. The foam contours to the user and the user's weight is distributed over the surface of the cushion.

5. Cover

The ProForm NX is available with a mesh or incontinence cover with breathable two-way stretch material. Reticulated foam inside promotes air exchange and improves pressure redistribution. The underside is a rugged nonslip material with hook and loop for added security. The ProForm NX cover meets ISO 7176-16 ignition standards for upholstered wheelchair components and is machine washable.

6. Modifiable Wedge

A modifiable closed-cell foam wedge is standard with each ProForm NX. The modifiable wedge increases the weight-bearing load on the back of the thighs and decreases the load on the buttocks, without changing the seat-to-back angle. The 5cm (2") tapered wedge trims easily for custom fitting.

The ProForm NX Cushion



ProForm NX Single-Chamber Cushion

	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
w/ Mesh Cover	72411	74411	74611	75511	75711	76611	76811	76011
w/ Incontinence Cover	72421	74421	74621	75521	75721	76621	76821	76021
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18** (50x45cm)	20x20** (50x50cm)	
w/ Mesh Cover	77711	78611	78811	78011	70611	70811	70011	
w/ Incontinence Cover	77721	78621	78821	78021	70621	70821	70021	

ProForm NX Dual-Chamber Cushion

	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
w/ Mesh Cover	72412	74412	74612	75512	75712	76612	76812	76012
w/ Incontinence Cover	72422	74422	74622	75522	75722	76622	76822	76022
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18** (50x45cm)	20x20** (50x50cm)	
w/ Mesh Cover	77712	78612	78812	78012	70612	70812	70012	
w/ Incontinence Cover	77722	78622	78822	78022	70622	70822	70022	

Spare and Replacement Parts

	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
Mesh Cover	01760	01761	01762	01740	01741	01763	01764	01765
Incontinence Cover	01750	01751	01752	01745	01746	01753	01754	01755
Single Cushion	01780	01781	01782	01790	01791	01784	01785	01783
Dual Cushion	01770	01771	01772	01795	01796	01774	01775	01773
Wedge	04352	04355	04355	04574	04574	04357	04357	04357
	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18*** (50x45cm)	20x20*** (50x50cm)	
Mesh Cover	01742	01766	01767	01768	01743	01744	01769	
Incontinence Cover	01747	01756	01757	01758	01748	01749	01759	
Single Cushion	01792	01787	01788	01786	01793	01794	01789	
Dual Cushion	01797	01777	01778	01776	01798	01799	01779	
Wedge	04377	04358	04358	04358	04359	04359	04359	


Please note: Replacement Bases and Thigh Cushions are available to order upon request

ProForm NX Modifications for Seating Professionals


Why Select the ProForm NX Cushion?

Seating specialists choose the ProForm NX cushion because it can be modified in an adaptive or subtractive manner. For example, it can provide additional medial or lateral thigh support by building up areas of the Contoured Base with Varilite Cheat Sheets accessory pads. The ProForm NX cushion can also be modified by cutting the Contoured Base, Modifiable Thigh Cushion and Modifiable Wedge to address leg length discrepancies. The ProForm NX cushion is the customizable, out-of-the-box, seating solution.


Modifying Components




1 First, modify the Contoured Base with a blade or an electric knife.




2 Cut Modifiable Wedge with a blade or electric knife. Use care when cutting with a blade or knife. Do not cut the blue air-foam cushions.




3 Cut Modifiable Thigh Cushion with a blade or electric knife. Use scored lines on bottom for dimensional reference.



4 Fold provided hook material in half so that you have hook on both sides.

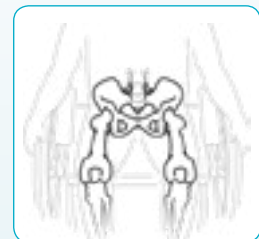


5 Place hook material on loop at front, bottom edge of cushion on side of modification.



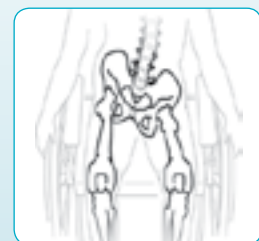
6 Pull firmly on cover and fold it back on itself and attach hook to appropriate loop.

Cinching the Cover



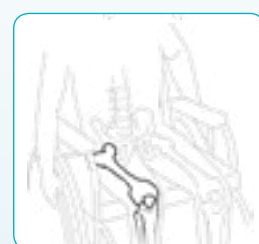
Symmetrical Posture

- Modify the Contoured Base with Varilite Cheat Sheets accessory pads to build up the medial thigh separator and/or laterals



Pelvic Obliquities

- Improve uneven pressure distribution and posture by adjusting the two chambers of the Air-Foam floatation cushion independently with a simple turn of the valves



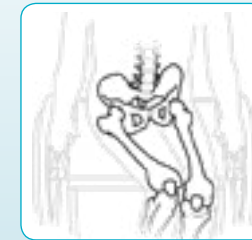
Leg Length Discrepancy

- Cut along the Modification Guides on the Contoured Base to accommodate a shorter femur
- Cut the Modifiable Thigh Cushion and Modifiable Wedge to conform with the Contoured Base
- Cinch Cover (see steps 4-6 above)



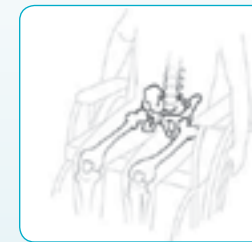
Kyphotic Postures

- Control posterior pelvic tilt, which leads to sacral sitting, limited functional activities, and affected physiological function (e.g. respiration, digestion, ect.)
- Deep ischial pan on contoured base immerses client into cushion
- Use the Modifiable Wedge to support thighs while encouraging neutral pelvic position



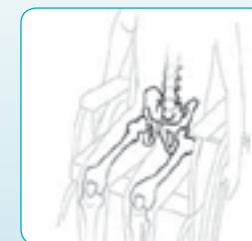
Wind Swept Deformity

- Cut the Contoured Base to accommodate any pelvic rotation
- Cut away the existing medial thigh separator
- Create a new medial thigh separator using Cheat Sheets
- Cut the Modifiable Thigh Cushion and Modifiable Wedge as needed to conform with the Contoured Base
- Cinch Cover



Existing Reddened Skin

- Identify location of reddened area or bony prominence relative to the base, ideally with a pressure mapping system
- Cut holes or recessed areas in the Contoured Base to provide additional pressure relief



Limited Hip Flexion

- Cut the Contoured Base and the Modifiable Thigh Cushion up the middle
- Cut and place the Modifiable Wedge under the unaffected leg



Stroke (CVA)/Above Knee Amputation (AKA) Unilateral Scooter

- Cut the Contoured Base and the Modifiable Thigh Cushion up the middle
- Cut the Modifiable Wedge and place only under the affected leg
- For limited hip flexion, place the wedge only under the unaffected leg

Zoid



The performance cushion of choice for active wheelchair users at moderate risk of tissue breakdown

Available With the Following Options:

Cover:	Mesh or Incontinence
Valve:	PSV
Size Range:	12x8" - 20x20"

Tissue Integrity

Immersion	✓✓
Dispersion away from bony areas	✓✓✓
Air/water vapour circulation	✓✓✓
Temperature balance	✓✓✓
Fail safe	✓✓✓
Stretch covers	Yes
Choice of covers	Yes
Transfer damage risk (from friction and/or shear)	Reduced

Posture

Neutral pelvis	✓
Pre-ischial Ridge	✓✓
Stability	✓✓
Lateral support	✓✓
Thigh abduction	✓✓✓
Trochanteral ledge	✓✓
Gluteal support	✓

Functionality

Lightweight	✓✓✓
Comfort	✓✓
Enables day to day activities	✓✓✓
Vibration dampening	✓✓
Low maintenance	✓✓
Machine washable cover/wipe down cushion	✓✓✓
Visible directions for use	✓✓
Functional life	✓✓
Warranty	2 year - cushion 1 year - cover
Size range	12x8" - 24x20"
User weight limit	None
Usability	✓✓
Stability	✓✓

The Zoid Cushion



1. Air-Foam Floatation

Functional areas of the cushion are created by three types of foam; soft foam for the decubitus-sensitive area of the ITs; medium foam for main seat support area; and firm foam for the perimeter.

2. Positioning Supports

Extra-firm, bevelled foam increases lateral stability and sitting balance, while a large ischial pan protects the pelvis in both anterior and posterior pelvic tilt positions. There is no medial thigh separator, therefore lower extremities can come into midline for better fit in a tapered chair.

3. Valve for Adjusting Air Volume

Zoid PSV is supplied with Varilite’s revolutionary Pressure Setting Valve.

4. Cover

Stylish and functional. Available in mesh and incontinence. Zoid PSV covers meet ISO 7176-16 ignition resistance standards for upholstered wheelchair components.



Zoid									
	12x8" (30x35cm)	12x12" (35x35cm)	12x14" (35x40cm)	14x14" (35x45cm)	14x16" (35x50cm)	14x18" (38x38cm)	15x15" (38x43cm)	15x17" (40x35cm)	16x16" (40x40cm)
w/ Mesh Cover	32800	32200	32400	34400	34600	34800	35500	35700	36600
w/ Incontinence Cover	32810	32210	32410	34410	34610	34810	35510	35710	36610
	16x18" (40x45cm)	16x20" (40x50cm)	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)
w/ Mesh Cover	36800	36000	37700	38300	38800	38000	30600	30800	30000
w/ Incontinence Cover	36810	36010	37710	38310	38810	38010	30610	30810	30010

Zoid Spare Covers									
	12x8" (30x35cm)	12x12" (35x35cm)	12x14" (35x40cm)	14x14" (35x45cm)	14x16" (35x50cm)	14x18" (38x38cm)	15x15" (38x43cm)	15x17" (40x35cm)	16x16" (40x40cm)
Mesh Cover	04651	04652	04653	04654	04655	04697	04698	04699	04656
Incontinence Cover	04702	04711	04712	04715	04719	04720	04721	04722	04725
	16x18" (40x45cm)	16x20" (40x50cm)	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)
Mesh Cover	04659	04847	04888	04571	04657	04572	04573	04514	04532
Incontinence Cover	04726	04727	04728	04729	04730	04731	04741	04781	04785

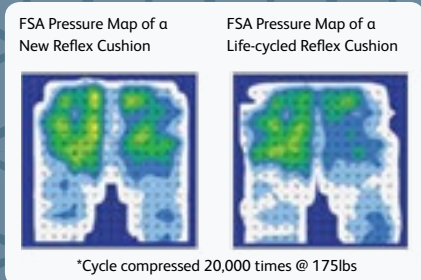
The Reflex



The self-adjusting cushion of choice for wheelchair users with risk of tissue breakdown

Reflex - performs after extended use

The Reflex shows consistent pressure redistribution after rigorous life-cycle* testing. Comparison pressure testing shows that the Reflex performs as well after extended use as it does when new.



Available With the Following Options:

Cover: **Incontinence**

Valve: **Self-Setting Valve**

Size Range: **12x12" - 20x20"**

Tissue Integrity

Immersion	✓✓
Dispersion away from bony areas	✓✓✓
Air/water vapour circulation	✓
Temperature balance	✓✓
Fail safe	✓✓✓
Stretch covers	Yes
Choice of covers	No
Transfer damage risk (from friction and/or shear)	Reduced

Posture

Neutral pelvis	✓
Pre-ischial Ridge	✓✓
Stability	✓✓
Lateral support	✓✓
Thigh abduction	✓✓✓
Trochanteral ledge	✓✓
Gluteal support	✓

Functionality

Lightweight	✓✓✓
Comfort	✓✓✓
Enables day to day activities	✓✓
Vibration dampening	✓✓✓
Low maintenance	✓✓✓
Machine washable cover/wipe down cushion	✓✓✓
Visible directions for use	✓✓
Functional life	✓✓
Warranty	2 year - cushion 1 year - cover
Size range	12x12" - 20x20"
User weight limit	None
Usability	✓✓✓
Stability	✓✓

The Reflex Cushion



1. Air-Foam Floatation

The Reflex foam is perforated in the sacral-ischial area for maximum protection of the pressure sensitive area of the ITs. The Reflex provides medium density foam for the thigh trough, pelvic bucketing and pre-ischial bar, and firm foam to provide lateral support and a medial thigh separator.

2. Fabric

Reflex foam is bonded to puncture and water resistant polyester fabric for strength and durability.

3. Self-Setting Valve

A built-in air-release device automatically releases a portion of air when the user sits on the cushion. The air-release device allows a fixed amount of immersion and limits bottoming out. When weight is taken off the cushion, it automatically reinflates.

4. Cover

The Reflex features a tailored, removable, incontinence cover. The underside is a rugged nonslip material with hook and loop for added security. The cover is machine washable.



Reflex										
	12x12" (30x30cm)	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x43cm)	15x17" (40x35cm)	16x14" (40x35cm)	16x16" (40x40cm)
w/ Incontinence Cover	73522	73524	73544	73546	73548	73540	73555	73557	73564	73566
	16x18" (40x45cm)	16x20" (40x50cm)	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	
w/ Incontinence Cover	73568	73560	73577	73586	73588	73580	73506	73508	73500	

Reflex Spare Covers										
	12x12" (30x30cm)	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x43cm)	15x17" (40x35cm)	16x14" (40x35cm)	16x16" (40x40cm)
Incontinence Cover	05534	05535	05536	05537	05538	05539	05540	05541	05542	05543
	16x18" (40x45cm)	16x20" (40x50cm)	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	
Incontinence Cover	05544	05545	05546	05547	05548	05549	05578	05550	05551	

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The Raft Wheelchair Seat



Increased Airflow

Promotes airflow and keeps the seat cooler



Weight Redistribution

Peak pressures reduced by 70 %



Posture

Dynamic contouring improves posture and alignment



Waterproof

Dishwasher safe: Closed-cell EVA is heat resistant and waterproof



The International Chiropractors Association endorses Raft Technology

The Raft Wheelchair Seat

Sitting in a wheelchair for a prolonged period of time can become uncomfortable, so comfort is an important factor for wheelchair users when choosing a seating base. The Raft Wheelchair Seat's contoured design, with the innovative post and pillars technology, makes it particularly comfortable to sit on over extended periods.



The innovative ports and pillars technology is not only comfortable - it promotes continuous air flow and creates a seating base that is breathable, giving cool comfort and helping to protect the skin against two of the important factors that contribute to skin breakdown – heat and moisture.

High peak pressure, particularly under bony prominences, such as at the base of the pelvis, is a major cause of discomfort and is another important factor contributing to skin breakdown.

When pressure-mapped, the Wheelchair Seat was shown to reduce peak pressures by 70 %. This remarkable degree of pressure reduction is achieved by the way the posts and pillars of this innovative design yield without collapsing to redistribute weight and therefore pressure.

Good posture is vitally important to seating comfort and the Wheelchair Seat offers extra medial and lateral

contouring to support and maintain the position of the thighs, as well as differential immersion into the cushion. The immersion pillars of the Wheelchair Seat under the tail bone and pelvis are structured to help position and hold the pelvis correctly, and maintain the natural curvature of the spine in sitting. The effect of these is to improve posture and align the spine. Correct spinal alignment and improved posture reduce muscle tension, which in turn reduces back pain.

The Wheelchair Seat is made of waterproof, closed cell, EVA foam, and can be machine washed in a dishwasher, withstanding temperatures of up to 80°C.

Wheelchair Seat

Code	Size (in)	Size (cm)
004030	18 x 16 x 3.5	46 x 41 x 8.9

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The Raft Posture Seat and Posture Seat Plus



Increased Airflow

Promotes airflow and keeps the seat cooler



Weight Redistribution

Peak pressures reduced by 70 %



Posture

Dynamic contouring improves posture and alignment



Waterproof

Dishwasher safe: Closed-cell EVA is heat resistant and waterproof



The International Chiropractors Association endorses Raft Technology

The Raft Posture Seat and Posture Seat Plus

The Raft Posture Seat and Posture Seat Plus bases are designed using innovative ports and pillars technology. The design promotes continuous air flow and creates a seating base that is breathable, giving cool comfort. The pillars distribute weight and reduce pressure on the spine that otherwise can lead to back pain. The pillars also contribute towards maintaining good posture, helping to eliminate the poor posture and associated pain that can result from long hours in front of a computer or behind a wheel.



Air flow

Air flow helps to keep the skin cool and lets it breathe. Heat and perspiration are dispersed to give cool comfort and help protect skin. Hot, sticky seats can be a thing of the past.



Weight Distribution

The Posture Seats have 49 pillars. Each pillar yields but does not collapse so that weight is more evenly distributed across the seating surface. The base of the spine and pelvis comfortably accommodated by immersion pillars that contour and cradle, spreading the load and relieving pressure on the hips and tail bone.



Good Posture: Reduced Back Pain

The immersion pillars under the base of the spine within the Posture Seats allow the spine to settle in a natural position, while the immersion pillars under the buttocks allow the pelvis to tilt forward. The result is a well-balanced spine with natural curves and relaxed muscles, and a reduction in hip and back pain arising as a result of poor posture.



Washable and Heat Resistant

The Posture Seats have a non-porous surface which makes it waterproof. It can be washed in a washing machine – or even a dishwasher! It can withstand water temperatures up to 80 degrees Celsius.

Posture Seat and Posture Seat Plus

	Code	Size (in)	Size (cm)
Posture Seat	004016	15 x 15 x 1.5	38 x 38 x 3.8
Posture Seat Plus	004023	18 x 16 x 1.5	46 x 41 x 3.8

Seating Accessories

Cheat Sheets (Order Code - 02102)

Varilite Cheat Sheets are adhesive-backed sheets of closed-cell foam. Each package contains four pieces of foam measuring 25cmx25cm (10"x10"). Cheat Sheets can be cut with a blade or scissors and applied to a variety of surfaces. Simply cut the desired shape, remove adhesive backing and apply the Cheat Sheet to a clean, dry surface. Layer as needed and round off corners and edges. Once desired shape has been achieved, apply a final, smooth layer.



Suggested Cheat Sheet Applications

A popular use for cheat sheets is customizing a Varilite ProForm NX contoured base. Cheat Sheets are used to build up the medial thigh separator and laterals, smooth cut edges and improve contact for superior pressure redistribution.

Other Cheat Sheet Uses:

- Build contours on planar systems
- Modify back systems for kyphotic posture
- Pad or contour head supports, laterals, hip guides, ASIS bars, arm supports etc
- Smooth sharp edges on wheelchairs or accessories.

Drop Base (Hardware Kit 04351)

The Varilite Drop Base is ideal for wheelchair users who need to sit lower for self-propelling or transferring. The Varilite Drop Base is made from durable and lightweight 1cm (3/8") PVC. Our L-J Brackets are hardened steel for superior strength and durability. The hardware allows 10cm (4") of height adjustment and 15 degrees of angle adjustment. Fingerlocks secure the Drop Base to the wheelchair and allow for quick removal. Varilite Drop Bases fit wheelchairs that are 33-50cm (13"-20") wide, with seat rail diameters of 2.2cm or 2.5cm (7/8" or 1").



Drop Base

Size	14x16" (35x40cm)	16x16" (40x40cm)	16x18" (40x45cm)	18x16" (45x40cm)	18x18" (45x45cm)	20x20" (50x50cm)
(Fits chair width)	13-14" (33-35cm)	15-16" (38-40cm)	15-16" (38-40cm)	17-18" (43-45cm)	17-18" (43-45cm)	19-20" (48-50cm)
Order Code	04388	04288	04308	04278	04378	04258

Solid Inserts

The Varilite Solid Insert counters the effects of sling upholstery. For some wheelchairs users, sling upholstery promotes internal rotation of the lower extremities, sacral seating, posterior pelvic tilt, loss of natural lumbar lordosis and obliquity of the pelvis. Such poor positioning can result in discomfort and long-term problems. A solid insert offers an easy and cost effective solution to the problems of sling seating. The Varilite Solid Insert is made from durable 6mm (1/4") plywood and is available in paediatric through adult sizes. It can be placed between the cushion and upholstery, or, preferably, inside the cushion cover. With rounded edges and a smooth, sanded surface, there is no risk of splintering or puncturing the cushion. All Varilite cushion covers are sewn with room for a Solid Insert.

Solid Inserts

12x12" (30x30cm)	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)
04360	04390	04260	04380	04535	04536	04537	04538	04380

Solid Inserts

16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)	17x17" (43x43cm)	18x16" (45x40cm)	18x18" (45x45cm)	18x20" (45x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)
04280	04300	04290	04389	04300	04370	04240	04290	04240	04250



Shear Comfort Medical Sheep Wool

Healthcare Innovations Australia (HIA) is also a provider of specialised skin protection products, and is the sole producer of Shear Comfort.

What is Shear Comfort?

Shear Comfort covers a range of Footwear, Overlays and Targeted Protectors, using specially selected wool from a specific cross-breed of sheep to give it the optimum properties for pressure care and microclimate control.

All Shear Comfort products meet and surpass the Australian Medical Sheep Skin Standard AS4480.1

Apart from keeping the body comfortable and warm, medical sheep wool possesses many unique properties that you may not be aware of.

Medical grade sheep wool has been proven to reduce the incidence of pressure ulcers. Wool regulates temperature, wicks moisture, reduces shear and friction, and redistributes pressure.

Shear Comfort Seating and wheelchair-oriented protectors



Cushion-It™

The Cushion-It™ can be used for the seat and/or back of a chair. It provides an ideal seating environment, allowing air to circulate while dispersing pressure and shear forces.



Foot Plate and Calf Plate Protectors

These items fit easily over a wheelchair's foot or calf plates to bring comfort and protection to otherwise unforgiving parts of the wheelchair. Tears and bruising as a result of bumps and scratches caused by the foot and calf plates are not uncommon, and can easily be prevented with the simple addition of our quality wool-based protectors.



Arm Support Protectors

Arm Support Protectors are a simple solution to the possible damage or discomfort caused to the forearm where there is insufficient padding on an arm support of a wheelchair, office chair etc.

To get more information about medical sheep wool contact sales@hiaus.net.au or call 1300 499 282

You can also visit our website for Shear Comfort products: www.shear-comfort.net

Other Product Ranges by HIA

BodiTrak

BodiTrak has taken pressure mapping to a completely new level.

The BodiTrak mat has in-built electronics, with just a simple cable to plug the mat into a USB port of a PC, Laptop or Tablet. This makes BodiTrak the most portable and ready to use pressure mapping system.

Wheelchair Posture and Positioning equipment

HIA offers a range of equipment to cater for wheelchair users' posture and positioning needs. We bring together the best of class products from around the world which not only promote postural support, but also provide comfort, to make sure that individuals get the equipment they are looking for. We provide ranges of back supports, and pelvic, shoulder, and foot positioning belts and harnesses.

Contact us to find out more about our product ranges, or to request a copy of our brochures and prices

TERMS AND CONDITIONS OF SALE WARRANTY

WARRANTY

All VARILITE products have been carefully inspected prior to shipping. All belt and harness packaging bags and cushion tags have been marked with serial numbers that correlate to a specific history of materials and workmanship. All products are warranted against manufacturer's defects for two years from the original date of purchase with the exclusion of covers which are warranted for one year. This warranty is limited to the repair or replacement of components and does not cover incidental or consequential damages. This warranty is only valid for the original purchaser of the product.

Should a product be found defective under this warranty, we will repair it or replace it, at our option, free of charge. Alteration of the components, abuse (punctures, cuts, burns or abrasions), misapplication, normal wear, or failure to close the valve are not included, nor is the cover included. If a returned component is considered damaged due to alteration, abuse, or normal wear, you will be contacted.

If a problem arises with your VARILITE product, please call us, For a return under warranty, you will need a Return Authorization number.

STOCK RETURNS

Please contact Healthcare Innovations Australia within 30 days of the purchase date for a return authorization number. All stock returns are subject to a \$35 restocking fee, plus GST and applicable freight charges.

CLAIMS

All claims for non-receipt are to be made within seven days of invoice date.

Overdue Invoices

Overdue invoices may incur an interest charge of 3 % per month.

TERMS

Please note that all prices quoted are exclusive of:

- Freight
- GST
- Consultancy charges
- Fitting charges

Prices are subject to change without notice.

