Seating Ergonomic Efficient Technology - SEET

SEET - Innovative Posture Aid and Seating Comfort

SEET is designed using innovative port and pillar technology. Ports promote continuous air flow and create 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
SEET has 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 are comfortably accommodated by immersion pillars that contour and cradle, spreading the load and relieving pressure on the pelvis and tail bone.
**Good Posture: Reduced Back Pain**

The immersion pillars under the base of the spine within the SEET allow the spine to settle in a natural position, while the immersion pillars under the buttocks encourage the pelvis into a neutral position. 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**

SEET has 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°C.

<table>
<thead>
<tr>
<th>The SEET Range</th>
<th>Code</th>
<th>Size (in)</th>
<th>Size (cm)</th>
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<td>38 x 38 x 3.8</td>
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<td>18 x 16 x 3.5</td>
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**The International Chiropractors Association Endorses SEET™**

The SEET technology has been endorsed by the International Chiropractors Association Posture Committee after extensive product testing by the committee. “ICA thoroughly evaluated the ergoSEET, finding it an excellent seating surface to help reduce fatigue and discomfort and promote better sitting posture. ICA strongly encourages Chiropractors to recommend this enhanced seating product to their patients.” *Joseph Betz, DC, FICA, Chairman ICA Technique and Posture Committee.*
Varilite™ - A range of cushions as light as a breeze

Varilite™ has always been dedicated towards making premium and innovative seating solutions to enhance the lifestyle of customers. Through their Air Foam Floatation Technology - a combination of air and foam, Varilite™ products deliver excellent stability, comfort, and pressure redistribution in an ultra-lightweight seating solution. Varilite™ offers a range of cushions, backs, pelvic positioning belts, laterals, and accessories.

What makes a Varilite™ cushion the right choice?

Air Foam Floatation technology
The air in Varilite™ cushions supports the load, whilst the foam keeps the air where it is needed, preserves shape, and prevents the cushion from bottoming out. This combination of air, supporting most of the weight, and a low density foam holding air where needed, makes the Varilite™ cushion light weight.

Two-Way Stretch Bond Fabric
The foam of the cushion is bonded to a two way fabric to allow maximum contouring and immersion of the body into the cushion.

Varilite Reflex™ Cushion

Varilite’s Reflex™ is a cushion designed for clients who are at a moderate risk of skin breakdown. Professionals value the Reflex™ because the set amount of immersion conforms to their client’s body, providing comfort and added stability. The Reflex™ foam is perforated in the sacral-ischial area for maximum protection of the decubitus-sensitive area of the ischial tuberosities at the base of the pelvis.

The Reflex™ foam is bonded to a puncture and water resistant polyester fabric for strength and durability. A built-in air-release device automatically releases a portion of air when the client sits on the cushion, which allows for immersion preventing bottoming out. When weight is taken off the cushion, it automatically re-inflates, thereby making the cushion easy to use. This is a great option as it doesn’t involve any fiddling with pumps to refill air. Supplied with an incontinence cover.
What makes a Varilite™ cushion the right choice?

**Self-inflating**
Varilite™ cushions incorporate a self-inflating valve, that is easy to use and set-up without the need for using a pump. In the Reflex cushion there is an inner valve that automatically adjusts the pressure and air flow which allows the cushion to adjust to the contours of the client’s body.

**No user weight limit**
Varilite™ cushions are not only ultralightweight, but also strong and durable. There is no user weight limit, as compared with other cushions in the marketplace.

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**Varilite Evolution™ Cushion**

The first goal of any seating cushion is comfort. The Varilite Evolution™ cushion not only gives superior comfort, but also provides positioning stability and pressure redistribution. This cushion is ultralight, which is really important for manual wheelchair users, and it also provides stability and positioning support which is essential for clients with compromised sitting balance, or those who need to be transferred frequently.

Multi-stiffness foam provides support as the client is immersed in the cushion, along with medial and lateral support which minimise internal and external lower extremity rotation. Pelvic bucketing and a pre-ischial ridge help to maintain the position of the pelvis, and thigh troughs promote a neutral femoral position.

The cover is an essential component of the Varilite Evolution™ cushion as it enhances pressure redistribution, and promotes the circulation of air and water vapour, thus assisting in the preservation of healthy skin tissue. The cover comes in options of mesh or incontinence. The cover helps protect the cushion from punctures, burns, or soiling.
Shear Comfort™ Pressure Care - Overlays

BES offers a range of different sized overlays from our Pressure Care Assistant™ up to full Bed-sized overlays.

Turn a standard mattress into a high end pressure care mattress
By simply adding one of our overlays you can turn a standard mattress into one that compares with far more expensive pressure care mattresses. Bear in mind that the best way to affect what you’re doing at the skin is by what is happening next to it – the further away from the skin you get the deeper into the body you are acting – the structure of a mattress does more for the skeleton than for the skin.

Natural skin microclimate control
What your Shear Comfort™ overlay does is to provide the ideal microclimate for a good sleep, looking after temperature and perspiration regulation, with the excellent air redistribution properties of a wool product.

Silent pressure care
In a residential or medical care facility, Shear Comfort™ overlays are a lower cost pressure care solution, and remove the discomfort and noise experienced with plastic based options, such as plastic air filled overlays or alternating pressure mattresses.

Improved Sleep Quality
As far back as 1984, Dickson showed that a wool underlay decreased restlessness and improved sleep quality. Individuals with fibromyalgia, suffering from diffuse chronic pain and tender muscles, showed significant pain reduction and improved sleep quality when using wool overlays (Kiyak et al, 2009).

All of our overlays are available in our XD1900 material making them very cost effective at reducing the risk of developing pressure ulcers: they can be washed at over 80°C for infection control purposes using normal detergents. We also have some overlays available in medical sheepskin produced to AS4480.1 standards: these can also be washed at 80°C, but need a wool wash shampoo, to protect the suede material from damage.

Shear Comfort™ Pressure Care - Footwear

Protect against diabetic foot ulcers

Extended periods of high sugar levels experienced by people with diabetes lead to nerve and blood vessel damage. This leads to greater risk of damage to the feet and to slower recovery.

Damage to the skin in turn leads to risk of infection, and often the need for amputation (lower extremity amputation is 15 to 46 times more frequent for those with diabetes). For the majority of diabetics who have had an amputation, life expectancy is low – of the order of two years on average. Therefore protecting the feet from damage can be a life-saver.

The Damage caused by high blood sugar levels can have a knock-on affect on three types of nerves:

- **Sensory nerves**, leading to loss of sensation warnings of damage, pain, temperature, or vibrations
- **Motor nerves**, affecting lower extremity muscles resulting in changes to the shape of the feet and toes
- **Autonomic nerves**, resulting in reduction of sweat production, leaving the skin dry and at risk of cracking as a result.

On top of this the affects on blood supply to the feet mean that any injuries will not heal as quickly as normal, which in turn means that cuts and blisters are at more risk of infection.

Shear Comfort™ footwear works to protect your feet in many ways:

- Their covered seams and high density wool help to protect the feet from external damage
- The pressure redistribution properties help to dissipate the build up of pressure, reducing the risk of internal damage
- The shear reduction properties of wool reduce the risk of friction damage
- The warmth from the air insulation in the wool helps to promote better blood circulation
- The moisture absorbing properties of wool help protect against damage from perspiration build up.
BES Healthcare Products

BodiTrak - Pressure Mapping System

BodiTrak has taken pressure mapping to a completely new level, in their S-t-r-e-t-c-h fabric mats, with their advanced, highly sensitive stretchable sensors, and built-in USB-linked electronics. BodiTrak is not only a technological advancement, but also an affordable reality. Find out more about the BodiTrak system by getting your own BodiTrak leaflet.

BAM Labs’ Touch-free Life Care (TLC), a NEW outlook on Care Management

Falls and Pressure Ulcers are targets for immediate cost savings around the world, and are a part of the NHS’s ‘Harms Free Care’ initiative. BAM Labs’ TLC system from BES Healthcare is a solution to these major harms. Through this system you can turn your bed into a smart bed by placing a sensor mat under any bed mattress that continuously detects heart rate, breathing rate, motion, and presence, which is transmitted to the carer through a cloud based system. To find out more about BAM Labs’ TLC system or to receive a demo contact BES Healthcare.

Wheelchair Posture and Positioning equipment from head to toe

BES 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 by Stealth Products such as head supports, laterals, and accessories, and from Bodypoint pelvic positioning belts, harnesses, and foot supports. To know more, contact BES Healthcare.