

# Healthcare Seating

Providing total comfort and support in occupational and healthcare seating



enhancing  
everyday  
life

Vita Comfort UK

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**Vita**<sup>®</sup>





## Reflexion. The best solution for tailor-made seating comfort.

Reflexion reacts to body heat and uniquely moulds itself around the contours of the user. Interface pressure is reduced on critical parts of the body subjected to compression. The body weight is then spread more evenly across the whole surface area of Reflexion. This has been proven to promote improved circulation and lessens the development of pressure sores.

The Vita Group is an established supplier to the medical and healthcare sectors. With our specialist knowledge, The Vita Group has developed foam layer combinations to meet severe and extremely severe load bearing seating classifications and supplies a range of flexible block foam and PU foam for semi-finished and finished products that ensure comfort and protection for consumers.



Specialist  
Medical Seating



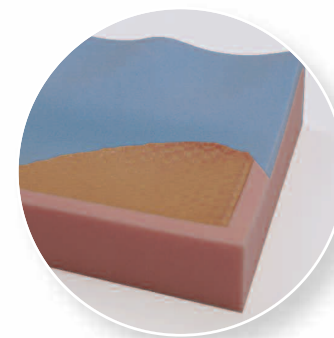
Wheelchair  
Seating Foam



Office chair  
Seating Foam

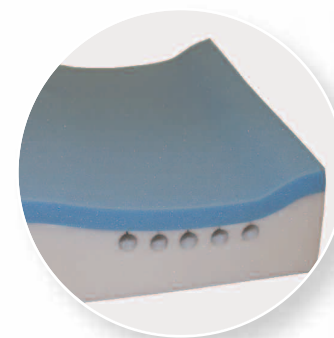
# reflexion

Manufactured by Vita Comfort UK,  
manufacturers of Reflex, the  
UK's leader in cellular polymer  
technology



Beware of Imitations, Reflexion is only available from a Vita Comfort UK conversion site.

Specifically designed for use in contract and healthcare seating applications where occupants are seated for long periods.



Developed in conjunction with the medical profession, it delivers an increased user comfort through improved body posture and alignment.

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### BENEFITS OF REFLEXION FOAMS

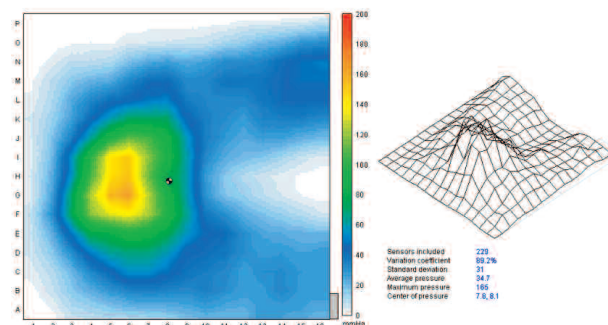
- ✔ Distributes weight evenly reducing pressure problems
- ✔ Proven to promote improved circulation
- ✔ Combines Vasco, an energy absorbing temperature-sensitive layer, with Reflex, the class-leading filler-free foam
- ✔ Especially suited to long term seating applications, including Call Centres and Healthcare
- ✔ Durability tested by FIRA



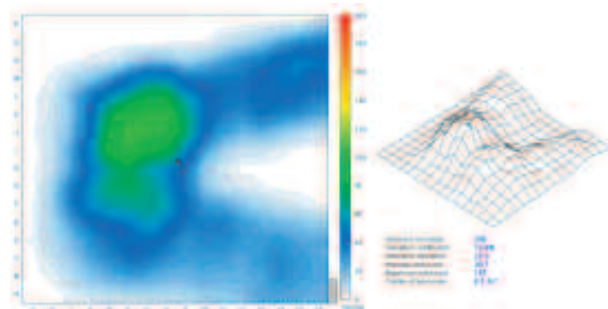


## Compare a Reflexion seat cushion's performance with that of an ordinary seat cushion

The two pressure maps illustrate the amount of pressure being exerted by the user sitting on a conventional healthcare seat cushion (map 1), compared with a Reflexion seat cushion (map 2). Both tests were conducted using a healthcare chair, and an identical protocol was applied to each. The lightest areas of contact pressure are shown in blue, whilst the heaviest are shown in orange.



Map 1 - Conventional seat cushion



Map 2 - Reflexion seat cushion

The two tests clearly illustrate that the conventional seat cushion allows the user to sit through the cushion because it does not have the function to adequately support or disperse weight effectively.

Map 1 highlights a large proportion of the contact area under extreme levels of pressure, shown in yellow and orange. The user's weight is concentrated around the area of the buttocks, which is an area at great risk.

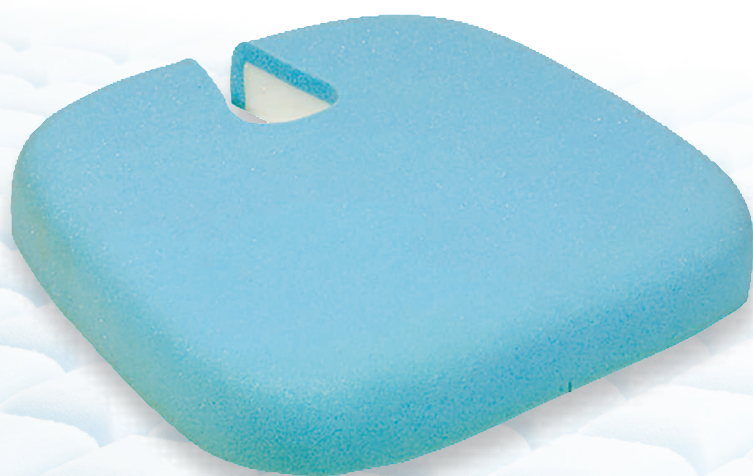
The pressure being exerted approached the maximum level within the test criteria. The areas of extreme localised pressure are shown by the tall thin peaks and are more likely to be associated with the cause of tissue breakdown.

Sustained high pressure is intolerable for patients, especially for those without the ability to alleviate the discomfort for themselves. High levels of localised pressure are a contributory factor in the development of pressure related ailments.

In a complete contrast, the Reflexion seat cushion shows a substantial reduction in interface pressure around the critical area of the buttocks and is completely devoid of any high pressure contact areas. The peaks are shallower and have gentle gradients indicating that the weight is not localised and has been distributed much more evenly.

### WHY REFLEXION SEAT CUSHIONS?

-  **Soft yet supportive**  
Provides optimal support and comfort
-  **Highly durable**  
Shape retaining and long lasting quality
-  **Sustainable**  
Use of green energy and "Circular" zero-waste philosophy
-  **Hygienic**  
Washed to ensure optimal hygiene



## How pressure sores develop

Pressure sores normally occur when a part of the body is pressed against a hard surface for a continuous period of time. Blood is unable to circulate in the local area and cells die, resulting in painful pressure sores which can take months to heal - and which, in extreme circumstances, can even be life-threatening.

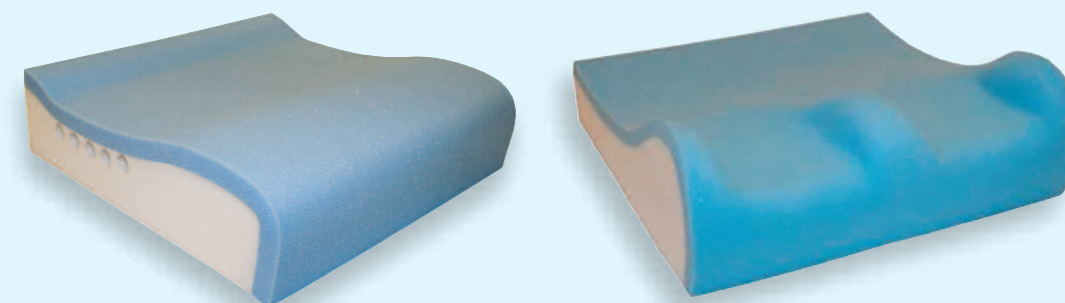
Areas most at risk have bones close to the surface of the skin such as the buttocks (ischial tuberosities), across the back and shoulders and at the back of the head.

## reflexion

### The secret is layering

Reflexion is a remarkable seating system comprising two distinct layers. The upper layer of Vasco, Visco-Elastic memory foam, reacts to body heat and moulds to the users shape creating a reflection of the body contours. Vasco distributes weight and helps to reduce point pressure loads.

The Reflex base layer provides support and flexibility for the Vasco upper layer. Reflexion is available with gel inserts specifically designed for bariatric patients. It is tested by FIRA for durability and pressure redistribution over a 5 year simulated period.





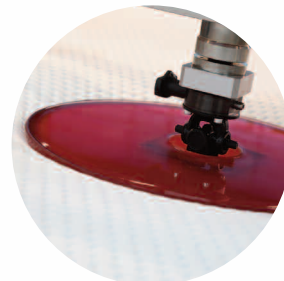
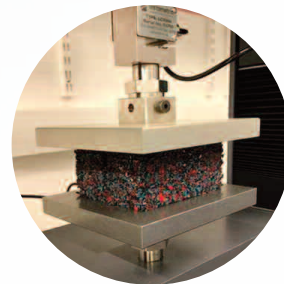
## We develop the very best solutions for a wide range of customer applications

The Vita Group's Medical portfolio spans from the production of medical mattresses for hospitals and nursing homes to Vita's seating solutions designed to reduce pressure sore development through weight distribution.

To assist in the selection of foams or testing of finished or semi-finished products The Vita Group has invested in an innovation centre capable of testing to known industry standards.

### INNOVATION CENTRE TESTING CAPABILITIES

- ✓ Pressure mapping (Interface pressure - evaluate localized pressure - immersion area)
- ✓ Shear pressure
- ✓ Heat Dissipation and breath-ability
- ✓ Durability test
- ✓ Tensile testing
- ✓ Displacement mapping
- ✓ Temperature and humidity mapping

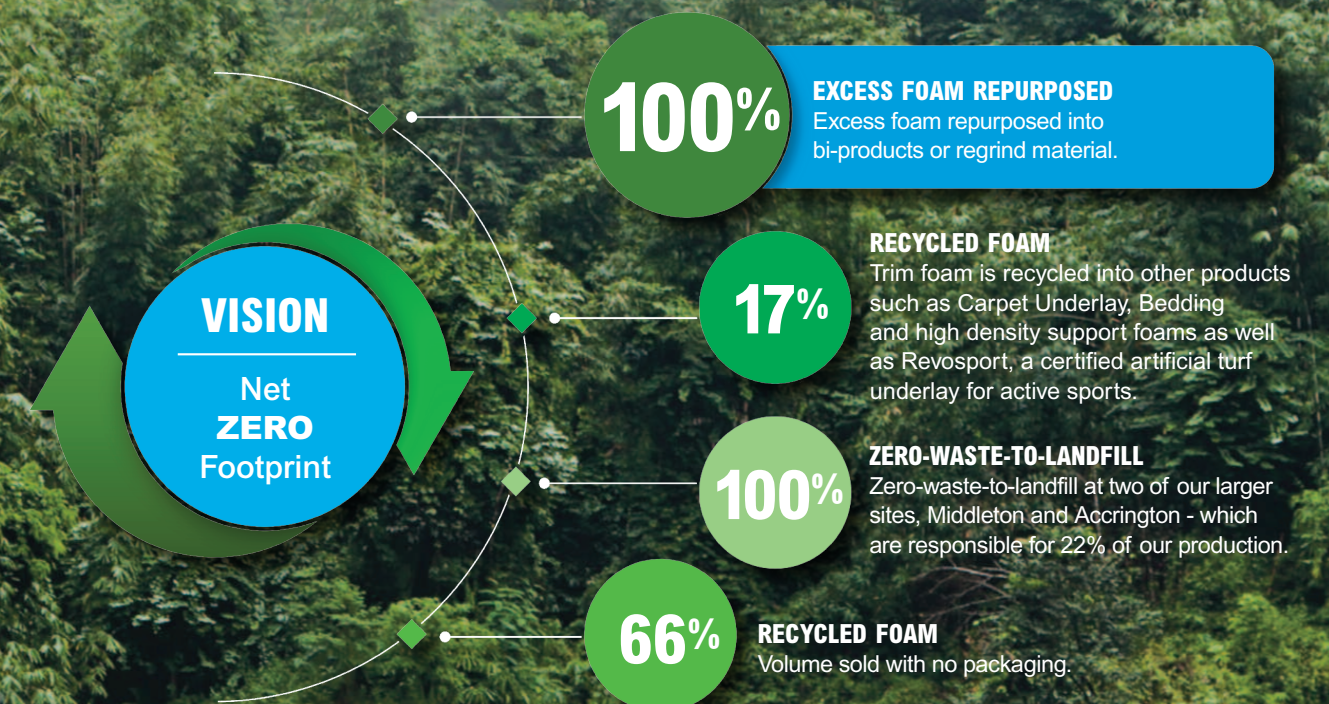


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We aspire to be the leader in innovation and sustainability in the flexible PU foam industry

At The Vita Group, we continuously invest to sustainably deliver the very best solutions for our customers and future generations.

As a responsible, resourceful and safe business we commit to and invest in reducing waste, increasing recycling and reusing raw materials, and conserving natural resources in pursuit of a net zero footprint.



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