Optimal 5zon® Plus

With our vision to eliminate pressure injuries, we adopt a comprehensive approach to patient safety and well-being, with a focus on creating a sustainable society and ensuring safe care for each individual.

To create a more comprehensive and holistic approach to pressure injury prevention, we believe it's crucial to integrate "ADL - Activities of Daily Living" as a central component when developing our solutions.

This is the reason why we have developed Optimal 5zon® Plus, an innovative solution that, with our patented support function DuoCore[3] and a two-part, lined foam core, is designed to contribute to a good quality of life for each individual.

The foam quality contributes to improved patient safety

Pressure injuries cause significant suffering and can be prevented. For a support surface to have preventive effect, there needs to be a balance between the individual being enveloped by the material and pressure being evenly distributed across the surface, while the foam provides sufficient support to prevent bottoming out. The quality of the foam is therefore crucial to ensuring patient safety.

Density affects how well the support surface supports the individual - the higher the density, the more support the foam provides. Firmness relates to how stable the support surface feels and affects the sensation of lying on the support surface. A balance between density and firmness is necessary for comfort and pressure injury prevention properties.

Optimal 5zon® Plus consists of high-density foam to provide adequat support and distribute pressure across the entire body.

Increased lifespan and lower costs over time

In healthcare, it's crucial that support surfaces can withstand prolonged use and repeated pressure. Density affects both how well the support surface supports the individual and it's resistance to fatigue and stresses.

Optimal 5zon® Plus consists of high-density foam to withstand long-lasting and reccuring use throughout its lifespan.

Higher density increases resislience and extends the lifepan of the foam. This results in a durable support surface that needs to be replaced less frequently, leading to lower costs over time.

Maintain quality of life and reduce the risk of shear forces

Optimal 5zon® Plus is developed to maintain the quality of life for individuals who spend extended periods in a care bed while also contributing to reducing the risk of pressure injuries. Through our patented[3] support function DuoCore® and a two-part, lined foam core, the support surface aims to reduce the impact of shear forces and maintain comfort and stability in a sitting position.

When moving between positions, shear forces occur, which not only pose a risk for pressure injuries but can also become painful and uncomfortable over time. With a two-part, lined foam core, the foam layers shift relative to each other, and the shear force occurs between the foam layers instead of between the skin and the surface.

When moving to a sitting position, individuals tend to slide forward towards the foot end, which can be uncomfortable and negatively affect posture. With DuoCore®, the support surface provides support under the hamstrings and pelvis, helping to maintain a upright posture.

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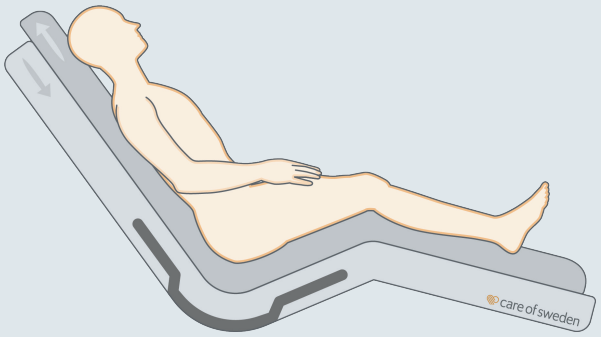
Optimal 5zon® Plus

The quality of the foam affects patient safety
Using high-quality foam is critical to ensure patient safety and a long lifespan of the support surface. Optimal 5zon® consists of high-density foam (kg/m3), which increases its ability to support the individual without the risk of bottoming out, while also providing high resistance to fatigue and conditions for a long lifespan.

DuoCore® promotes an upright sitting position
Our patented support function DuoCore®, provides support to the hamstring and pelvis to promote an upright position and ADL (activities of daily living). DuoCore® contributes to improved comfort and facilitates fundamental activities such as mealtime activity and breathing work.



Castellated overlay mattress for even pressure distribution
The castellated overlay mattress is tailored to the amount of pressure required for different parts of the body to be enveloped by the support surface. For lighter body parts, such as the heels, the support surface has smaller-sized cubes to promote good and even pressure distribution across the body.

Two-part, lined foam core for less shear impact
The two layered lined foam helps reduce discomfort and the occurrence of pressure injuries due to shear. By allowing the foam layers to shift relative to each other during position changes, the absorption of shear forces is transferred from the individual's skin to the support surface.

Technical specification

Pressure ulcer category	Up to and including category III(1)
Recommended user weight	Up to 300 kg (Optimal 5zon® is recommended for users weights up to 180 kg).
Type of support surface	Replacement mattress
Height	15cm
Material foam core	Base mattress: Cold foam, 50 kg/m3 + 120 N Overlay mattress: Cold foam, 65 kg/m3 + 90 N
Sizes	85/90/105/120×200/210 cm
Fire	EN 597-1, -2
Cleaning instruction	Cleaning of cover: wipe with cleaning agent and/or disinfectants. Machine wash max 95 °C, tumble drying.
CE-marking	Registered and marked in accordance with MDR (EU) 2017/745.
Features	DuoCore®, two-part and lined foam core, overlay mattress with zone modules, hygiene cover, reinforced bottom plate

Covers for hygiene and reduced shear
The support surface is supplied with a removeable and liquidproof hygiene cover for easy cleaning. The hygiene cover is manufactured in a four-way stretch fabric to reduce the risk of shear forces, and is vapour-permeable(2) to lower the risk of skin maceration. The hygiene cover also features a liquidproof zipper.

Available covers:

Stone
- Seams: welded
- Color: grey
- Material: 61 % polyamide, 39 % polyurethane coating

Olivia
- Sewn seams
- Color: light grey
- Material: 55 % polyester, 45 % polyurethane coating

Steel
- Seams: welded
- Color: blue
- Material: 44 % polyamide, 56 % polyurethane coating

Bottom part Optimal 5zon® Plus
- Combine with top part Olivia, Stone or Steel
- Color: black
- Material: 100 % polyester, polyurethane coating
- Handles on short and long sides for moving the support surface

References
(1) European Pressure Ulcer Advisory Panel, National Pressure Injury Advisory Panel and Pan Pacific Pressure Injury Alliance. Prevention and Treatment of Pressure Ulcers/Injuries: Clinical Practice Guideline. The International Guideline. Emily Haesler (Ed). EPUAP/NPIAP/PPPIWA: 2019 (2) SS-EN ISO 15496:2004, DIN 53122-1. (3) Patentnummer 008522741.

Always read the instructions for use prior to use.

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