

OSKA FIKA MATTRESS CLINICAL JUSTIFICATION

FEATURE	CLINICAL BENEFIT/JUSTIFICATION
Heel Relief Slope	The heel relief slope feature in the OSKA mattress is specifically engineered to alleviate pressure on the heels by redistributing weight towards the calves, where a larger surface area can safely absorb it. This design consideration significantly reduces the risk of pressure ulcers, a common concern for patients with limited mobility. The slope's length and angle are meticulously tailored to accommodate a wide range of patient heights, ensuring optimal placement and effectiveness. By preventing excessive pressure on the heels, this feature plays a crucial role in enhancing user comfort and safety.
Offloader™	The OFFLOADER™ feature is a critical tool in both preventing and treating pressure injuries on the heel, even up to category 4 severity. By suspending the heel to create a 'zero pressure' environment, it not only promotes increased blood flow to the area, crucial for healing, but also facilitates essential care practices such as inspection, cleaning, and dressing of the wound. Its adjustability ensures personalized positioning for each user, making it a versatile and indispensable aid in enhancing pressure care and comfort.
Fire Evacuation Base	The Fire Evacuation Base is an essential safety feature, enabling quick and secure transportation of both the mattress and its occupant during emergencies. With integrated straps and handles, this design is particularly suited for hospital and aged care environments, ensuring rapid response capabilities without compromising user security or comfort.
Anti-shear design	Designed to significantly reduce shear and friction which often leads to tissue damage. The base foam remains in position on the bed frame, whilst the top moves with the user.
SWL up to 159 kg, no minimum weight limit	The lack of a minimum SWL makes the mattress suitable for a wide range of users, from petite to paediatric patients, and up to significantly heavier adults. This versatility ensures that healthcare providers can accommodate a diverse patient population without the need for multiple different mattresses.
Aerolite Foam	<p>Responsive foam with microclimate properties which allows air to flow through the foam keeping the body cool and dry. Good microclimate management is important in preventing pressure ulcers from forming.</p> <p>This foam makes up the top pressure relieving layer and Zone zero feature.</p> <p>This technology has been designed to allow air to flow through the foam to ensure the body stays cool and dry. The microclimate properties of this foam are vital, as the body maintains a cooler temperature, this prevents sweating and notably reduces the occurrence of pressure injuries.</p>
Australian Standards	BS 5852 1990 Section 4 - Ignition Source Crib 5

OSKA FIKA COVER CLINICAL JUSTIFICATION

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Multiway stretch	<p>A multiway stretch cover is designed to address the hammocking effect, ensuring that the pressure-relieving and redistribution properties of the mattress are preserved. The cover's ability to stretch in multiple directions (four ways) aligns with the dynamic movements of the human body, allowing the material to conform and adapt as needed. This flexibility is crucial because if the cover is too tight, it can create a hammocking effect and result in material tension, diminishing the mattress's pressure-relieving capabilities. By avoiding this tension and maintaining optimal stretch, the multiway stretch cover contributes to lower interface pressure, enhancing the overall comfort and support provided by the mattress. The emphasis on flexibility and conformity in the cover's design is instrumental in promoting an effective and responsive pressure management system.</p>
Waterfall flap	<p>The inclusion of a waterfall flap serves dual purposes, primarily focusing on infection control and extending product longevity. This design feature provides a protective barrier against fluid ingress, particularly through zippers, enhancing the overall infection control measures of the product. By preventing contaminants and fluids from entering through vulnerable points like zippers, the waterfall flap contributes to maintaining a hygienic environment.</p> <p>Simultaneously, this protective design also acts as a barrier against potential damage caused by fluid exposure, increasing the overall longevity of the product. By safeguarding against the negative effects of moisture and contaminants, the waterfall flap ensures that the product remains resilient over time, reducing the risk of wear and tear.</p>
4-sided zipper	<p>This zipper configuration allows for easy removal of the cover, facilitating the inspection of the mattress and enabling machine washing. The ability to machine wash the cover provides an effective means of ensuring the mattress is free from contaminants, promoting a hygienic environment.</p> <p>Moreover, the 4-sided zipper design minimizes the risk of particle buildup that could compromise the integrity of the cover surface. By allowing thorough inspection and machine washing, this feature contributes to maintaining a clean and uncontaminated surface, thus enhancing infection control practices.</p>
V-Guard Technology	
Vapour permeable	<p>The vapour permeable feature in a mattress is designed to facilitate the passage of vapour, promoting free airflow for breathability, and preventing the buildup of temperature and moisture against the user's skin. This permeability is quantified through the Moisture Vapour Transmission Rate (MVTR). By wicking away moisture from the user's skin and reducing heat, this characteristic contributes to improved microclimate management, creating a more comfortable environment. Microclimate management plays a key role in reducing the risk of pressure injuries.</p> <p>The bi-elastic PU/polyester coating enhances this by allowing interface movement, lowering the risk of shear damage, friction, and helping disperse moisture. Ultimately, the vapour permeable feature not only addresses the reduction of pressure injury risks but also enhances user compliance and overall experience by promoting a breathable and comfortable sleep surface.</p>
Moisture impermeable WPR >5m (Water penetration resistance)	<p>The cover has an effective barrier against fluid ingress. This resistance ensures that moisture particles are prevented from penetrating the surface, allowing them to remain on the exterior where they can be easily wiped away or cleaned. The material strikes a balance between having fibres wide enough for breathability and small enough to prevent liquid ingress. This design minimises the risk of strikethrough when the product is used, cared for, and maintained correctly.</p> <p>This significantly contributes to infection control and enhances the product's longevity. By providing a resilient barrier against fluid ingress, the material promotes a hygienic environment and safeguards the product from potential damage caused by exposure to moisture.</p>

OSKA ARIA+ COVER CLINICAL JUSTIFICATION

FEATURE	CLINICAL BENEFIT/JUSTIFICATION
Autoclave resistant	<p>Autoclave resistance denotes the capability to withstand steam sterilisation, one of the most rigorous and commonly utilised methods for sterilising medical devices. This attribute is pivotal for ensuring thorough sterilisation and maintaining the integrity of the product through repeated autoclaving processes.</p> <p>Beyond its technical significance, autoclave resistance significantly contributes to infection control measures and enhances the overall longevity of the product. By withstanding steam sterilisation, the material supports a hygienic environment and extends the product's usable life, making it a robust and durable option for medical applications.</p>
Antibacterial and Antifungal treated	<p>The antibacterial and antifungal treatment of a product is a key element in infection control. This treatment serves to inhibit the growth of bacteria and fungi, minimising the risk of microbial contamination. By incorporating these protective features, the product becomes an effective barrier against harmful pathogens, enhancing its role in maintaining a hygienic environment. This treatment contributes significantly to infection control practices, promoting a safer and more sterile setting for medical applications.</p>
Wipeable Washable to 95°C Dry cleanable Resistance to active chlorine <10 000 ppm concentration	<p>The antibacterial and antifungal treatment of a product is a key element in infection control. This treatment serves to inhibit the growth of bacteria and fungi, minimising the risk of microbial contamination. By incorporating these protective features, the product becomes an effective barrier against harmful pathogens, enhancing its role in maintaining a hygienic environment. This treatment contributes significantly to infection control practices, promoting a safer and more sterile setting for medical applications.</p>
Low friction fabric Anti-decubitus	<p>The fabric minimizes local shear and strain on the skin during user movement and repositioning by incorporating a smooth fabric with multi-directional stretch. It strikes a delicate balance, providing enough friction to prevent excessive sliding in the fowler position while ensuring quietness and comfort.</p> <p>Moreover, the mattress is anti-decubitus, meaning it helps prevent the onset of wounds resulting from friction or rubbing. This feature is crucial for avoiding excessive skin crushing during extended hospital stays, preventing the occlusion of subcutaneous capillaries that could lead to conditions such as oedema or necrosis.</p> <p>These attributes collectively contribute to the reduction of pressure injury risk, enhancing overall user compliance and improving the user experience.</p>
High Frequency (HF) Welded seams	<p>Unlike regular sewn seams that inherently provide spaces for bacteria to accumulate, HF Welded seams are created by melting or welding materials together using high-frequency vibrations. This process ensures that there are no holes or gaps in the seams, leaving no avenues for bacteria to infiltrate or proliferate. By eliminating potential breeding grounds for bacteria, HF Welded seams play a crucial role in reducing the risk of infection spread.</p>
Meets latest legislative requirements	<p>The product adheres to the latest legislative requirements, being DecaBDE and Halogen-free, compliant with Reach and ROHS standards. Additionally, it meets the standards of the Biocidal Products Regulation. The flame-retardant cover enhances safety by mitigating the risk of fire. This comprehensive compliance ensures that the product aligns with current regulations, emphasising environmental responsibility, safety, and health standards.</p>

NDIS SPECIFIC CONSIDERATIONS

ANTICIPATED FUNCTIONAL OUTCOMES	CLINICAL JUSTIFICATION
Facilitate social participation	The mattress promotes social participation by ensuring good sleep, which enhances energy levels and cognitive function, encouraging social engagement. Comfort and pain management, by preventing pressure sores, increase the likelihood of users being active and participating in social activities.
Activity engagement	The mattress helps prevent pressure ulcers and manage pain, reducing secondary complications from immobility and enabling uninterrupted participation in daily and therapeutic activities.
Injury prevention	The Fika mattress, particularly the OSKA Fika Series 2-V2, is engineered to prevent pressure-related injuries, such as ulcers, by incorporating a variety of features. Its specialist foam layer manages micro-climate, reducing skin breakdown risks, while the unique OFFLOADER function and heel relief slope minimise pressure on vulnerable areas like heels, crucial in preventing heel ulcers. The design ensures even pressure redistribution across the body, a key factor in avoiding pressure injuries. Hygiene is enhanced with features like washable and vapor permeable covers, and V-GUARD Technology in the cover offers additional protection against contamination. These combined attributes make the Fika mattress effective in maintaining skin integrity and comfort for individuals at risk of pressure damage.
Capacity to remain in own home	<p>The Fika mattress is equipped with a specialist foam layer that helps in preventing and treating pressure damage up to and including category 2. This is significant because a large portion of pressure ulcers fall within categories 1 and 2. By mitigating the risk of these injuries, the mattress supports users' health, reducing the need for hospital visits or specialised medical care outside the home.</p> <p>The mattress includes an Offloader function designed to suspend the heel, creating a 'zero pressure' environment. This feature is particularly useful in preventing and treating heel ulcers up to category 4, further safeguarding the user's health and comfort, thereby enhancing their ability to stay in their own home.</p>
Promote independence	<p>The V-Guard Technology in the mattress covers provides an impenetrable barrier to viruses and bacteria, reducing the risk of infections. Easy-to-clean covers support users in maintaining a clean and safe sleeping environment on their own, without the constant need for external help.</p> <p>The durability of the mattress and its covers ensures long-term usability without frequent replacements or repairs, which can be both costly and require dependence on others. The ease of maintenance (washable covers that can be cleaned with warm water and mild detergent, or machine washed) allows users to manage their sleeping environment's hygiene independently.</p>
Compatible with other AT/supports	The Fika mattress is ideal for use with profiling beds. It can easily integrate into a user's existing care setup, enhancing their comfort and support without the need for additional modifications.
Support Capacity building	<p>Good sleep is fundamental to physical and mental health, impacting mood, cognitive function, and general well-being. By providing a comfortable sleeping environment, the Fika mattress supports better sleep quality, which is crucial for capacity building in various domains, including learning, social interactions, and physical activities.</p> <p>By mitigating health risks associated with prolonged bed use, the Fika mattress can reduce the participant's reliance on external caregivers for certain needs, promoting a sense of independence and self-management.</p>
Value for Money	By preventing pressure injuries, it prevents hospital admissions or increased funds for wound care and increased carer supports.
Standards Compliance	<p>Australian Standards</p> <p>BS 5852 1990 Section 4 - Ignition Source Crib 5</p>

NDIS SPECIFIC CONSIDERATIONS

CLIENT ATTRIBUTES	CLINICAL BENEFIT/JUSTIFICATION
Current or history of Pressure Ulcers	The Fika has the Offloader, heel relief slope, anti-shear design and low friction fabric and multiway stretch cover.
Poor Trunk control	Poor trunk control refers to difficulties in maintaining proper posture and stability, particularly in the upper body and torso. Individuals with this issue may experience challenges when sitting or lying down, making it essential to have proper support. Foam mattresses can offer a stable and firm sleeping surface that can help reduce the risk of falls or accidents. This is particularly important for individuals with poor trunk control who may have difficulty moving or repositioning themselves in bed.
Involuntary movement	The mattress cover has multiway stretch which decreases friction that can be increased when someone has a lot of involuntary movement.
Elderly or Frail	The cover material's low shear properties are particularly beneficial for elderly or frail individuals, reducing the risk of skin tears and injuries during movements or transfers. As their skin tends to be thinner and more fragile.
Spinal Cord Injuries	The mattress cover's microclimate management properties are beneficial for maintaining skin integrity. Individuals with spinal cord injuries may have impaired temperature regulation and sweat production, making microclimate management essential to prevent skin breakdown and discomfort.
Critical Care and Post-Surgery	The heel relief slope and offloader also aids in preventing pressure ulcer formation on the heels from spending extended periods in bed especially when lying on your back which can be the case with critical care patients due to all the medical devices that they have attached to them which makes reposition and therefore pressure redistribution difficult.
Immobility or Limited Mobility	The Fika is able to completely offload pressure on the heels with the use of the Offloader and redistributes pressure from the heels to the calves using the heel relief slope as the heels are especially vulnerable to developing pressure ulcers in individuals who are immobile or have limited mobility.
Back Pain	High resilience (HR) foam mattresses are ideal for individuals seeking orthopedic support. They effectively support the spine, neck, and shoulders, allowing these areas to relax. Additionally, HR foam distributes pressure evenly, alleviating stress on pressure points while providing substantial support. This combination of support and comfort makes HR foam mattresses a suitable choice for orthopedic use.