

ROHO® Hybrid Elite® Cushion
Operation Manual



Please Note

Supplier: This manual must be given to the user of this product.

Operator (Individual or Caregiver): Before using this product, read the instructions and save for future reference.

Products may be covered by one or more U.S. and foreign patents and trademarks, including ROHO®, DRY FLOATATION®, shape fitting technology®, Hybrid Elite®, Hybrid Elite SR™, Smart Check®, and Sensor Ready™. Zytel® is a registered trademark of DuPont.

Product information is changed as needed; current product information is available at permobilus.com.

ROHO, Inc. is part of Permobil Seating and Positioning.

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Safety Symbols



Warning:

Indicates that not following the specified procedure could lead to potentially hazardous conditions resulting in serious injury.



Caution:

Indicates that not following the specified procedure could lead to potentially hazardous conditions resulting in minor to moderate injury or damage to the equipment or other property.

Contact Information



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Intended Use

The ROHO® Hybrid Elite® Cushion (Hybrid Elite Cushion) is an adjustable, air-filled, wheelchair support surface combining a ROHO DRY FLOATATION® cellular design cushion insert with a contoured foam base and is intended to conform to an individual's seated shape in the pelvic loading area to provide skin/soft tissue protection, positioning, and an environment to facilitate wound healing. There is a weight limit of 500 lbs. (225 kg), and the cushion must be properly sized to the individual. The Hybrid Elite Cushion must be used with the supplied cover. Cushion models include:

- ROHO® Hybrid Elite SR™ Cushion (Hybrid Elite SR)
- ROHO® Hybrid Elite® Dual Compartment Cushion (Hybrid Elite Dual Compartment Cushion)

The Hybrid Elite SR Cushion is compatible with Smart Check® by ROHO®.

A clinician who is experienced in seating and positioning should determine whether the product is appropriate for the individual's particular seating needs. The product's intended use statement alone should not be relied upon to make that determination.

The medical products featured in this document are intended to be only one part of an overall care regimen that includes all seating and mobility equipment and therapeutic interventions. A clinician who is experienced in seating and positioning should identify this care regimen after evaluating the individual's physical needs and overall medical condition.

A clinician should also evaluate for visual, reading, and cognitive impairment to determine the need for caregiver assistance or the need for other assistive technology, such as large-print instructions, to ensure proper product use.

Important Safety Information



Warnings:

- **Skin/soft tissue breakdown can occur due to a number of factors, which vary by individual. Check skin frequently, at least once a day. Redness, bruising, or darker areas (when compared to normal skin) may indicate superficial or deep tissue injury and needs to be addressed. If there is any discoloration to skin/soft tissue, STOP USE immediately. If the discoloration does not disappear within 30 minutes after disuse, immediately consult a healthcare professional.**
- **The cushion and the cover MUST be compatible sizes and MUST be used as directed in this manual. IF THEY ARE NOT: 1) The benefits provided by the cushion may be reduced or eliminated, increasing the risk to skin or to other soft tissue, and 2) the individual may become unstable and vulnerable to falling.**
- **DO NOT use your cushion on top of, or in conjunction with, any other products or materials, except as indicated in this manual. Doing so may cause the individual to become unstable and vulnerable to falling.**
- **DO NOT place any obstructions between the individual and the cushion. USE ONLY a compatible cover with the cushion; placing any other item directly under the individual, whether inside or outside the cover, will make the cushion less effective.**
- **DO NOT use the components of this product separately. The cushion must be used with all components assembled.**

Important Safety Information, continued



Warnings, continued

- **DO NOT use this cushion as a water flotation device (e.g. a Life Preserver). It will NOT support you in water.**
- **The cushion surface will acclimate to the surrounding temperature. Take appropriate precautions, especially when the cushion will contact unprotected skin.**
- **DO NOT expose the product to high heat, open flames, or hot ashes. Testing or certification claims, including for flammability, may no longer apply to this device when it is combined with other products or materials. Check testing and certification claims for all products used in combination with this device.**
- **If you are unable to perform any tasks described in this manual, seek assistance by contacting your clinician, equipment provider, distributor, or Customer Support.**

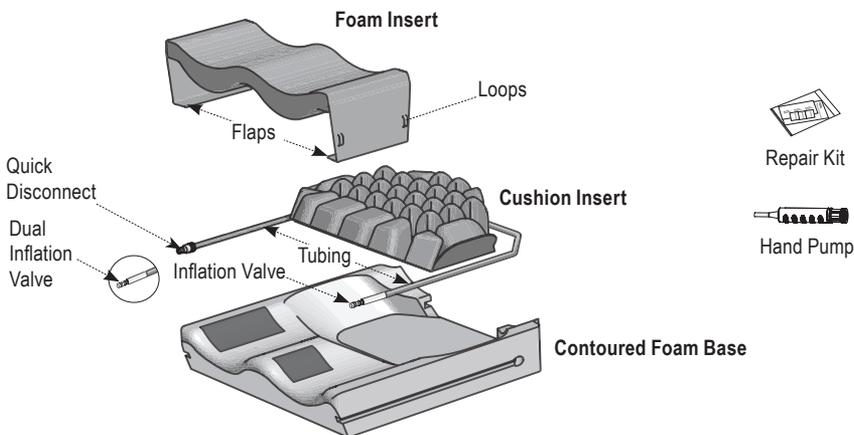


Cautions

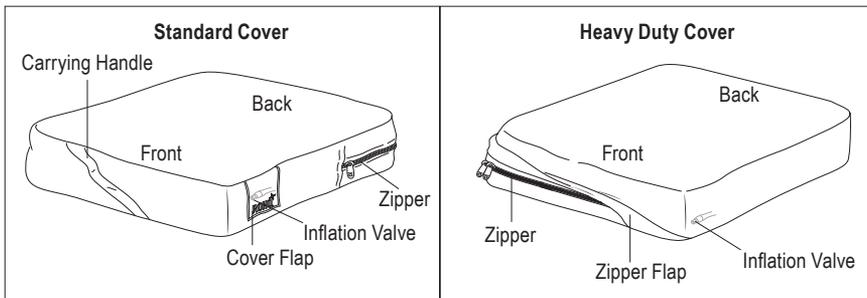
- Using a pump, cover or repair kit other than those compatible with your product may void your product's warranty.
- DO NOT modify the cushion or any components. Doing so may result in damage to the product and will void the warranty.
- DO NOT allow your cushion to come into contact with oil-based lotions or lanolin. They may degrade the material.
- Prolonged exposure to ozone may degrade materials used in the cushion, affect the performance of the cushion, and void the product warranty.
- Changes in altitude may require adjustment to your cushion.
- Keep the cushion away from sharp objects.
- If the cushion has been in temperatures lower than 32° F (0° C) and exhibits unusual stiffness, allow the cushion to warm to room temperature.
- Periodically, check components for damage and replace if necessary. See "Troubleshooting".
- DO NOT use the inflation valve or Quick Disconnect as a handle for carrying or pulling the cushion. Carry the cushion by the cushion base or by the carrying handle on the cover.

Parts Detail

Package Contents: Hybrid Elite Cushion, cover, hand pump, repair kit, operation manual, limited warranty supplement, product registration card



The serial number label is located on the bottom of the cushion.



To order replacement parts, contact your product provider or Customer Support.

Cushion Adjustment

The Hybrid Elite SR is equipped with Sensor Ready Technology and can be used with Smart Check by ROHO, which is a cushion feedback system. Smart Check can be used to find the individual's inflation level and help check their cushion. For more information, contact Customer Support.

Note: If you own Smart Check by ROHO, **STOP HERE** and refer to the *Smart Check® by ROHO® Operation Manual*.



Cushion Adjustment, continued

Warnings:

- Check inflation frequently, at least once a day!
- **DO NOT** use an under-inflated cushion or an over-inflated cushion because the product benefits will be reduced or eliminated, resulting in an increased risk to skin and other soft tissue. If the cushion does not appear to be holding air, or if you are not able to inflate or deflate the cushion, see "Troubleshooting". Immediately contact your equipment provider, distributor, or Customer Support if the problem persists.
- When possible, use hook and loop fasteners to further secure the cushion to the seating surface. Hook fasteners are available upon request.

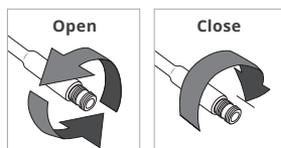
Note: For dual compartment cushions, repeat all steps for both valves.

1. Place the cushion in the wheelchair with the air cells facing up and the non-skid surface of the cover facing down.
2. Open the cover flap*. Slide the hand pump nozzle over the inflation valve. Open the inflation valve, at least one full rotation.

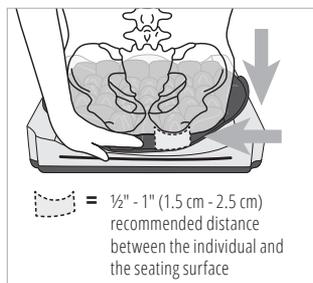
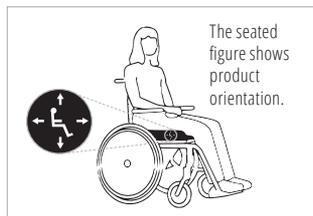
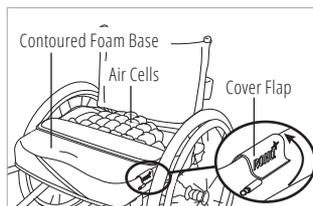
*For the Heavy Duty Cover, open the zipper.

3. Inflate until all of the air cells feel firm. Close the inflation valve until it comes to a stop. Remove the hand pump. Make sure the inflation valve is closed.
4. The individual should sit in the chair in their usual position. Confirm that the bony prominences are supported by the air cells.
5. Slide your hand between the air cells and the individual. Lift the leg slightly and feel for the lowest bony prominence, and then lower the leg to a sitting position.
6. Open the inflation valve to remove air, keeping your hand beneath the individual's lowest bony prominence. Release air until you are barely able to move your fingertips. Close the inflation valve.

 **Warning:** Make sure that there is at least ½ in. (1.5 cm) of air supporting the individual's lowest bony prominences.



Note: The inflation valve will spin freely when open.



Cover Removal and Replacement

Cover Removal:

1. Unzip the cover.
2. For Standard Covers Only: Open the cover flap. Reach inside the cover and pull the inflation valve through the opening so that it is inside the cover. Repeat for other side.
3. Remove the cover from the cushion.

Cover Replacement:

Warning: Before replacing the cover, make sure the foam insert and the cushion insert are correctly positioned and securely attached. See "Foam Insert Replacement and Cushion Insert Replacement".

Standard Cover Instructions

1. Unzip the cover and with air cells facing up and the non-skid surface of the cover facing down, insert the cushion into the cover.
2. The back of the cushion should face the zipper.
3. Open the cover flap. Reach inside the cover and push the inflation valve through the opening beneath the cover flap. Close the cover flap. Repeat for other side.
4. Zip the cover closed. If hook fastener strips were removed prior to washing, replace the strips.

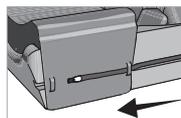
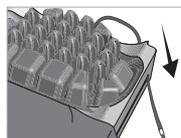
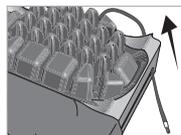
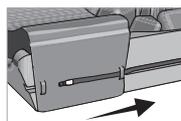
Heavy Duty Cover Instructions

1. Unzip the cover and with air cells facing up and the non-skid surface of the cover facing down, insert the cushion into the cover.
2. The front of the cushion should face the zipper.
3. Tuck all of the tubing inside the cover.
4. Zip the cover closed. If hook fastener strips were removed prior to washing, replace the strips.

Cushion Insert Removal and Replacement

Cushion Insert Removal:

1. Remove the cover from the cushion. See "Cover Removal".
2. Slide the tubing out of the loop on the foam insert.
3. Remove the tubing from the groove in the foam base and gently pull through the hole in the foam base corner. Repeat for other side.
4. Remove the cushion insert from the contoured foam base.



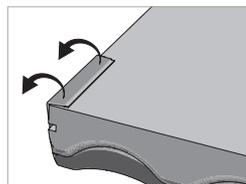
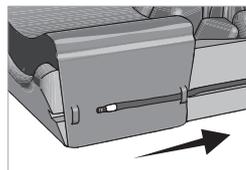
Cushion Insert Replacement:

1. Place the cushion insert on the foam base, lining up the hook and loop fastener strips. Make sure the cushion insert is centered. Press down to securely attach the cushion insert to the foam base.
2. Insert the tubing through the hole in the foam base corner. Repeat for other side.
3. Slide the tubing through the loop on the foam insert and press the tubing into the groove in the foam base. Repeat for other side.
4. Confirm correct positioning of the foam insert. See "Foam Insert Replacement".
5. Replace the cover. See "Cover Replacement".

Foam Insert Removal and Replacement

Foam Insert Removal:

1. Remove the cover from the cushion. See "Cover Removal".
2. Slide the tubing out of the loop on the foam insert.
Repeat for other side.
3. Flip the cushion over so that the cells face down and the bottom of the contoured foam base faces up.
4. Pull the foam insert flap away from the hook fastener pieces on the bottom of the contoured foam base. Repeat for the other side.
5. Flip the cushion over so that the cells are face up and the bottom of the contoured foam base faces down. Release the foam insert from the contoured foam base by pulling away from the hook fastener pieces.

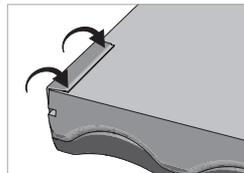
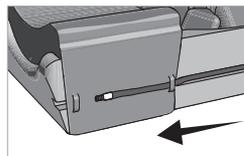
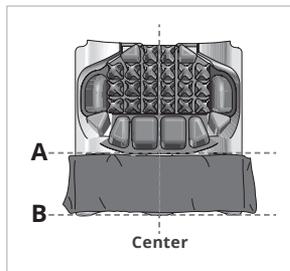


Foam Insert Replacement:

Warning: The foam insert must be correctly positioned on the contoured foam base.

Note: If the cushion insert was removed from the contoured foam base, replace the cushion insert before replacing the foam insert. See "Cushion Insert Replacment".

1. Position the foam insert on the contoured foam base.
 - The foam insert is next to, but not on top of, the air cells. (A)
 - The foam insert lines up with, but does not extend past, the front edge of the foam base. (B)
 - The foam insert is centered on the foam base.
2. Once correctly positioned, press down on the foam insert to securely attach it to the contoured foam base.
3. Slide the tubing through the loop on the foam insert. As needed, push the tubing back into the groove. Repeat for other side.
4. Flip the cushion over so that the cells are facing down and the bottom of the contoured foam base is facing up.
5. Pull and attach the foam insert flaps to the hook fastener pieces on the bottom of the contoured foam base.
6. Flip the cushion over so that the cells are facing up and the bottom of the contoured foam base is facing down.
7. Replace the cover. See "Cover Replacement".



Cleaning and Disinfecting



Warnings:

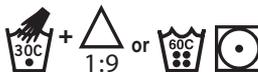
- **Cleaning and disinfecting are separate processes. Cleaning must precede disinfection. Before use by a different individual: clean, disinfect, and check product for proper functioning.**
- **Follow all manufacturer bleach container and germicidal disinfectant safety guidelines.**
- **Note About Sterilization: High temperatures accelerate aging and will damage the product assembly. The products featured in this manual are not packaged in a sterile condition, nor are they intended or required to be sterilized prior to use. If institution protocol demands sterilization: First, follow the cleaning and disinfecting instructions; then, open the inflation valve and use the lowest possible sterilizing temperature, but not to exceed 70°C (158°F), for the shortest time possible. DO NOT autoclave.**

Cover Care: Before cleaning and disinfecting, remove the cover from the cushion. Remove any hook fastener pieces from the bottom of the cover.

To Clean the Cover: Machine wash in cold water (30°C) with mild detergent, gentle cycle, or wipe clean with neutral detergent and cold water. Tumble dry low.



To Disinfect the Cover: Hand wash in cold water (30°C) using 1 part household liquid bleach per 9 parts water. Keep the product wet with the bleach solution for 10 minutes, and then rinse thoroughly. Or machine wash in hot water (60°C). Tumble dry low.



Cushion Care Cautions: DO NOT machine wash or machine dry the cushion insert or the contoured foam base. • Use of the following may cause damage to the cushion: abrasives (steel wool, scouring pads); caustic, automatic dishwasher detergents; cleaning products that contain petroleum or organic solvents, including acetone, toluene, Methyl Ethyl Ketone (MEK), naphtha, dry cleaning fluid, adhesive remover; oil-based lotions, lanolin, or phenolic-based disinfectants; ozone gas; ultraviolet light cleaning methods.



Warning: DO NOT allow water or cleaning solution to enter the cushion. Make sure the inflation valve is closed. Make sure the Smart Check is detached from the cushion. Water in a cushion with Sensor Ready (SR) technology can result in damage to the Smart Check and cause a false reading when using Smart Check.

To clean and disinfect the Cushion Insert: Carefully remove the cushion insert from the contoured foam base. Close the inflation valve(s). Hand wash, using mild liquid hand soap, hand dishwashing liquid, laundry detergent, or a multipurpose detergent (Follow product label instructions.) Gently scrub all cushion surfaces, using a soft plastic bristle brush, a sponge or a cloth. Rinse with clean water. Air dry. DO NOT expose to direct sunlight. To disinfect, repeat cleaning instructions, using 1 part household liquid bleach per 9 parts water. Keep the product wet with the bleach solution for 10 minutes. Rinse thoroughly with clean water. Air dry.



Caution: Rinse thoroughly. Detergent residue may cause the air cells to stick together.

Cleaning and Disinfecting, continued

To clean and disinfect the Contoured Foam Base: Remove the cover, foam insert and cushion insert. To clean, wipe gently with a cloth dampened with water and a household detergent, then rinse with cool, clean water. To disinfect, follow the cleaning instructions, but use disinfectant instead of household detergent. After cleaning or disinfecting, allow the foam to air dry thoroughly before putting the cover on.



To clean and disinfect the Foam Insert: To clean, moisten a cloth, then wring to remove excess water. Wipe gently with the cloth and a household detergent, then wipe again with a clean, slightly damp cloth. To disinfect, follow the cleaning instructions, but use disinfectant instead of household detergent. After cleaning or disinfecting, allow the foam to air dry thoroughly before putting the cover on.



Care Symbols

	Hand wash cold, maximum temperature shown.		Bleach (1 part bleach: 9 parts water)
	Machine wash hot, normal, maximum temperature shown.		Machine wash gentle, cold, maximum temperature shown.
	Hand wash.		Line dry in the shade.
	Wipe with a damp cloth.		Dry flat in the shade.
			Tumble dry low.

Troubleshooting

For additional assistance, contact your equipment provider, distributor, or Customer Support.

Not Holding Air - Inspect for inflation valve and hose damage. Confirm that the inflation valve(s) are completely closed (turn clockwise). Look for holes in the cushion. If very small holes or no holes are visible, follow the instructions in the Repair Kit provided with your product. For inflation valve or hose damage, or for large holes or leaks in the cushion, see the Limited Warranty supplement, or contact Customer Support.

Not Able To Inflate or Deflate Cushion - Confirm that the inflation valve(s) are open. Inspect the inflation valve(s) and hose(s) for damage.

Uncomfortable / Unstable - Confirm that:

- the air cells are not overinflated or underinflated.
- the foam insert and cushion insert are correctly placed on the contoured foam base.
- the air cells and the top of the cover are facing up.
- the cushion is centered beneath the individual.
- the foam insert does not overlap the air cells.
- the cushion is properly sized to the individual and the wheelchair.

Allow the individual at least one hour to adjust to the cushion.

The Cushion Slides on the Wheelchair - Make sure the non-skid bottom of the cushion cover is facing down. Use directional labels on the cushion and on the cover to orient the cushion. When possible, use hook and loop fasteners to further secure the cushion to the seating surface. Hook fasteners are available upon request.

A Component is Damaged - Contact Customer Support for replacement.

Storage, Disposal, and Recycling

Storage: Clean and disinfect the product before storing. Open the inflation valve(s). Deflate the product. Store the product in a container that protects the product from moisture, contaminants and damage.

Disposal: The components of the products in this manual are associated with no known environmental hazards when properly used and when disposed of in accordance with all local/regional regulations. Incineration must be performed by a qualified, licensed waste management facility.

Recycling: Contact a local recycling agency to determine recycling options for the product. For more recycling information, contact Customer Support.

Limited Warranty

Limited Warranty Term: 24 months from the date the product was originally purchased. The warranty does not apply to punctures, tears or burns, nor does it apply to the removable cover. See also the Limited Warranty supplement provided with your product, or contact Customer Support.

Product Specifications

Materials: Cushion Insert: neoprene rubber; made without latex; Inflation Valve: Zytel; Contoured Foam Base: polyethylene closed cell foam; Foam insert: polyurethane foam. Standard Cover: two-way stretch, spacer fabric sides, with a zipper located in the back of the cover; and a non-skid bottom; Heavy Duty Cover: two-way stretch, fluid-resistant top and sides, with a zipper located in the front of the cover; and a non-skid bottom. Refer to cover care label for material content and for compliance to flammability requirements.

Sizing Table

Cushion		Foam Base			
Single Valve	Dual Valve	Width (in.)	Depth* (in.)	Width (cm)	Depth* (cm)
1RHE1414C-SR	2RHE1414C	13 $\frac{3}{4}$	14 $\frac{3}{4}$	35.0	37.5
1RHE1415C-SR	2RHE1415C	13 $\frac{3}{4}$	15 $\frac{3}{4}$	35.0	40.0
1RHE1416C-SR	2RHE1416C	13 $\frac{3}{4}$	16 $\frac{3}{4}$	35.0	43.0
1RHE1515C-SR	2RHE1515C	14 $\frac{3}{4}$	15 $\frac{3}{4}$	37.5	40.0
1RHE1516C-SR	2RHE1516C	14 $\frac{3}{4}$	16 $\frac{3}{4}$	37.5	43.0
1RHE1517C-SR	2RHE1517C	14 $\frac{3}{4}$	17 $\frac{3}{4}$	37.5	45.0
1RHE1615C-SR	2RHE1615C	15 $\frac{3}{4}$	15 $\frac{3}{4}$	40.0	40.0
1RHE1616C-SR	2RHE1616C	15 $\frac{3}{4}$	16 $\frac{3}{4}$	40.0	43.0
1RHE1617C-SR	2RHE1617C	15 $\frac{3}{4}$	17 $\frac{3}{4}$	40.0	45.0
1RHE1618C-SR	2RHE1618C	15 $\frac{3}{4}$	18 $\frac{3}{4}$	40.0	48.0
1RHE1620C-SR	2RHE1620C	15 $\frac{3}{4}$	20 $\frac{3}{4}$	40.0	53.0
1RHE1716C-SR	2RHE1716C	16 $\frac{3}{4}$	16 $\frac{3}{4}$	43.0	43.0
1RHE1717C-SR	2RHE1717C	16 $\frac{3}{4}$	17 $\frac{3}{4}$	43.0	45.0
1RHE1718C-SR	2RHE1718C	16 $\frac{3}{4}$	18 $\frac{3}{4}$	43.0	48.0
1RHE1720C-SR	2RHE1720C	16 $\frac{3}{4}$	20 $\frac{3}{4}$	43.0	53.0
1RHE1816C-SR	2RHE1816C	17 $\frac{3}{4}$	16 $\frac{3}{4}$	45.0	43.0
1RHE1817C-SR	2RHE1817C	17 $\frac{3}{4}$	17 $\frac{3}{4}$	45.0	45.0
1RHE1818C-SR	2RHE1818C	17 $\frac{3}{4}$	18 $\frac{3}{4}$	45.0	48.0
1RHE1820C-SR	2RHE1820C	17 $\frac{3}{4}$	20 $\frac{3}{4}$	45.0	53.0
1RHE2017C-SR	2RHE2017C	19 $\frac{3}{4}$	17 $\frac{3}{4}$	50.0	45.0
1RHE2018C-SR	2RHE2018C	19 $\frac{3}{4}$	20 $\frac{3}{4}$	50.0	48.0
1RHE2020C-SR	2RHE2020C	19 $\frac{3}{4}$	20 $\frac{3}{4}$	50.0	53.0
1RHE2218C-SR	2RHE2218C	21 $\frac{3}{4}$	18 $\frac{3}{4}$	55.5	48.0
1RHE2220C-SR	2RHE2220C	21 $\frac{3}{4}$	20 $\frac{3}{4}$	55.5	53.0
1RHE2222C-SR	2RHE2222C	21 $\frac{3}{4}$	22 $\frac{3}{4}$	55.5	58.0
1RHE2418C-SR	2RHE2418C	23 $\frac{3}{4}$	18 $\frac{3}{4}$	60.5	48.0
1RHE2420C-SR	2RHE2420C	23 $\frac{3}{4}$	20 $\frac{3}{4}$	60.5	53.0

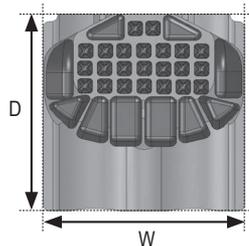
Weight: 3 $\frac{1}{2}$ lbs. / 1.4 kg (based on 1RHE1817C-SR)

Height: 4 in. / 10.0 cm

*Depths shown include $\frac{3}{4}$ in. (1.5 cm) of foam base that fits between the wheelchair back posts.

Note: All measurements are approximate. Width and depth measurements are taken from the top of the foam base and are rounded to the nearest $\frac{1}{4}$ in. or 0.5 cm. Cushion item numbers and cover tags indicate the wheelchair size the cushion is designed to fit.

Cushion expected lifetime: 5 years



permobil | SEATING + POSITIONING

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Intertek

The products featured in this document were
manufactured under a Quality Management System
that is certified to ISO 13485:2016.



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