

Permobil Custom Seating and Positioning

Jenn Gray, MOT, OTR/L Leslie Wade, MOT, OTR/L July 8th, 2020



Poll Question #1

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Leslie Wade, MOT, OTR/L

Regional Clinical Education Manager





Jenn Gray, MOT, OTR/L

Territory Sales Manager Seating and Positioning

What will be covered today?

1

Elements of evaluation and justification for custom seating and positioning

2

ROHO® Agility Back Supports

3

ROHO® custom cushions

4

Comfort Design Inception Cushion and Back Supports

5

TruShape

6

Custom secondary supports and accessories

permobil

Dr. Per Udden

"Every person with a disability has the right to have his or her handicap compensated as far as possible by aids with the same technical standard as those we all use in our everyday lives."



 The misplaced dot over the i, states that nobody is perfect ocrmas The tilted (smiling) e, stands for joy mobility (wheel)

Permobil Seating and Positioning Product Lines

ROHO®

Comfort

TruShape











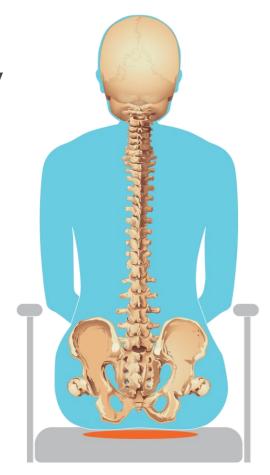




Elements of Evaluation and Justification for Custom Seating and Positioning

Common Seating and Positioning Goals

- •Skin and soft tissue protection
- Maintain postural alignment and stability
 - Enhance function
 - Enhance mobility
- Prevent secondary complications
 - Skin/tissue breakdown
 - Postural deformity
 - Compromised physiological functions





What is custom?

OFF SIZE

CUSTOM BACK

CUSTOM CUSHION

CUSTOM MOLDED









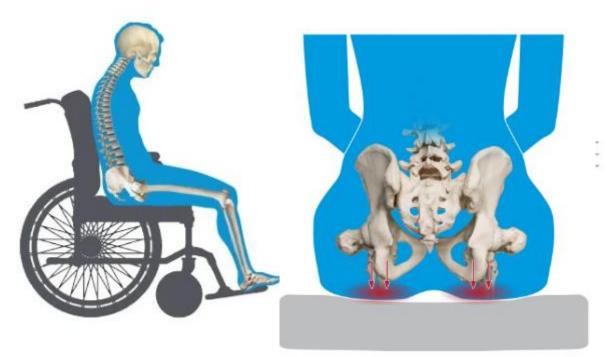
When is Custom Appropriate?

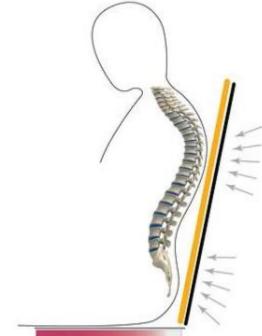
Postural Asymmetries

Positioning

Skin

Pressure Distribution





Custom Seating Continuum

Modification of off-theshelf product

 Permobil offers a wide range of adjustability in our off-the-shelf products

Custom Configured

 After you rule out off the shelf S&P products, you create a custom cushion or back based on your client's individual needs and goals

Custom Molded

 Capturing the client's actual shape and controlling materials used

Medicare Coverage Criteria

Custom seat - E2609

To qualify, individual must meet 1 and 2:

1. Meet all criteria for a prefab skin protection or positioning cushion

Custom back - E2617

To qualify, individual must meet 1 and 2:

1.) Meet all criteria for a prefab positioning back





2. There must be a comprehensive written evaluation by an LCMP, such as a PT or OT, which clearly explains why a prefab seating system is not sufficient to meet individual's seating and positioning needs. The PT or OT may have no financial relationship with the supplier.

Clinical Documentation

- Asymmetries
- Function
- Location
- Skin Concerns
- Off the shelf Trials



Poll Question #2

CUSTOM ROHO® AGILITY® BACK SYSTEM

Custom AGILITY®

Lightweight optionEasy to transport (weight and hardware)

Flexibility in positioning
 Room for growth, adapting for comfort levels,
 hypersensitivity, room for error/weight fluctuations

- Limits friction and shear
- "Flipability"
- Min(3"), Mid(4") and Max(7") contoured shells
- Ability to provide anterior/posterior contours







Hardware Options- Manual and Power

Manual-Quick Release or Fixed





Permobil Power





Using Custom AGILITY®

- Cell height options
 - 1", Low profile(2"), Mid Profile(3"), High Profile(4")
- Varying cell heights
 - Taller cells to fill in places of non-contact
 - Taller cells to help support the trunk
 - Tall, medium and shorter cells to create the specific contours to accommodate the individual's shape
 - Individual cell heights behind bony areas to allow for immersion/envelopment and provide comfort
- Multiple valves
 - Allows for custom inflation of specific groups of air cells for optimal support and immersion





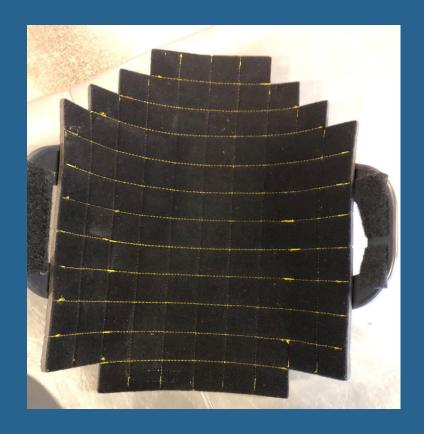
Clinical Application: Meet Tammy

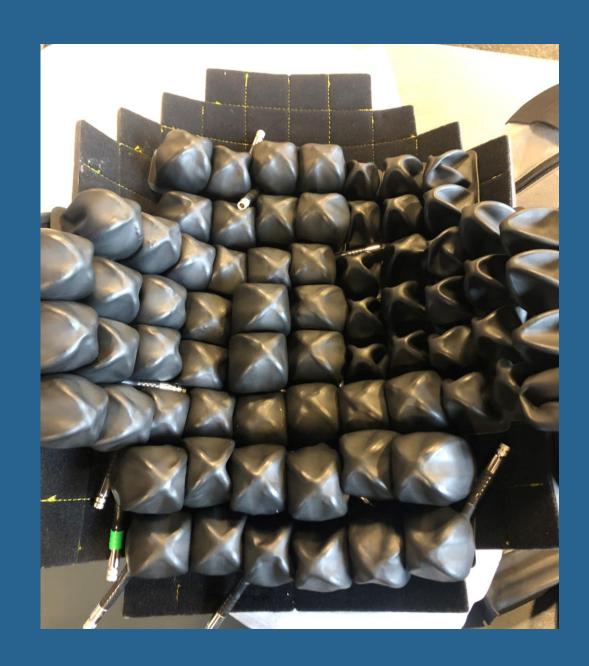
Diagnosis: Cerebral Palsy Severe Scoliosis

- Left thoracic and right lumbar curvature
- Right pelvic and trunk rotation
- Winging right and left scapula
- Left pelvic obliquity
- All non-flexible deformities

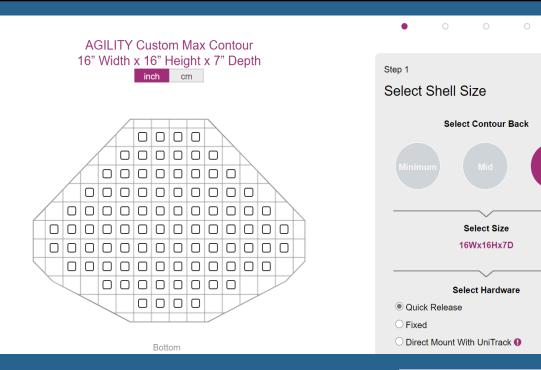
AGILITY® Custom Evaluation Kit



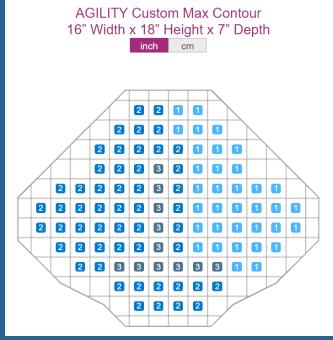








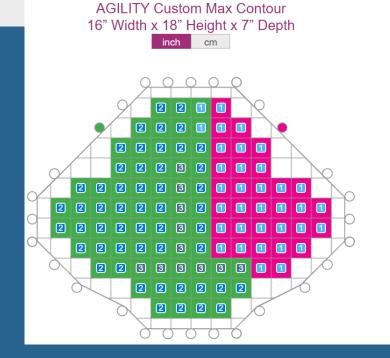
Custom AGILITY® Online Configurator



Drag or Click to Select Air Cells Each box on the featured shell can hold an air cell. Please determine where you would like air cells and the types of air cells needed. To select air cells, dragselect by holding down the mouse button and dragging the cursor to another cell location, or by clicking an individual cell. Cells 1 1" 2 LOW PROFILE (2.25") 3 MID PROFILE (3.25") 4 HIGH PROFILE (4.25")

Drag or Click to Create Adjustable Air Compartments AGILITY Custom Backs give you the option(s) to create separate adjustable air compartments. Please select and name the compartments needed for this AGILITY Custom Back. To create air compartments, drag-select by holding down the mouse button and dragging the cursor to another cell location. Then name the compartment. Limit 7 compartments. Compartments

Right Trunk



Choose Valve Location for Each Air Compartment Please note any special considerations, especially valve location1, you would like our team to know about this custom AGILITY back. Special Considerations Unless specified otherwise, valves will be placed toward the bottom of the custom AGILITY Back. Compartments Left Trunk Right Trunk

Step 4

Clinical Examples

Flexible Trunk Rotation



Redundant Tissues/Lateral Support

AGILITY Custom Max Contour 18" Width x 16" Height x 7" Depth



Kyphosis/Lumbar Support

AGILITY Custom Mid Contour 20" Width x 20" Height x 4" Depth





Custom ROHO® cushion





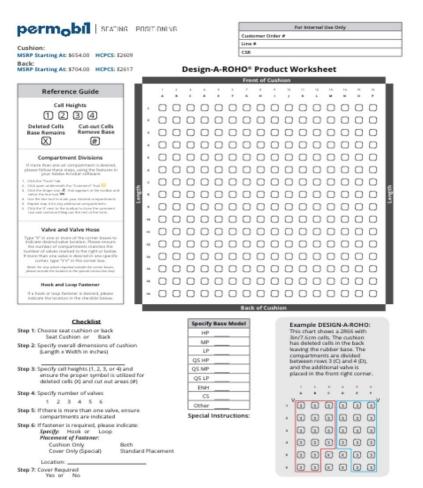


Custom ROHO® Cushion

- Varying number of air valves/compartments
- Varying cell heights
- Adding or deleting of cell rows
- Removal of sections
- Custom sizes
- Specific shapes

Design-A-ROHO® Worksheet

Page 1



Page 2

Design-A-ROHO® Product Worksheet

Provider/Distributor	Name:		
ROHO Account Number:		Chaose One: Quote or Order	
Address:			
City:	State:	Zip:	Country:
Phone:		Fax:	
Email:			
Person Ordering:			
Mark For (Reference	Name):		
P.O. Number (Require	ed to Place an Order):		

How to use the DESIGN-A-ROHO® Product Worksheet

Specific clients may want a ROHO cushion designed for their unique needs. This worksheet is intended for that purpose. The grid on the front of this worksheet represents a 16 cell width by a 16 cell length cushion, but cushions needing larger dimensions may also be available. Contact ROHO Customer Support for information on limitation shat may exist.

Follow these steps when ordering a ROHO® specialty cushion:

Step 1: Determine whether you need a seat cushion or a back.

Step 2: Determine the overall size of the cushion required (width by depth) e.g. 15in/38cm by 15in/38cm.

- Step 3: The rounded squares represent individual cells. Specify the height of each cell by inserting the desired height. The numbers should be either 1, 2, 3 or 4 which represents 1in/2.5cm, 2.25in/3.5cm, 3.25in/8.5cm, 4.25in/10.5cm respectively. If you want certain cells deleted, indicate by placing the letter "X" in the square. When cells are deleted, all that remains is the rubber base. If you want this area removed, please indicate by placing the symbol "#" in the square on worksheet. Please note that ROHO will not make a cushion which is only one row of cells on the outer edge of the cushion or one cell standing alone. ROHO suggests that cell variances of 2 or more inches be placed on separate valves for better immersion.
- Step 4: Specify the number of valves. If you would like the valve location somewhere other than in the corners, please specify the location(s) in the special instructions box.
- Step 5: If you have specified more than one valve, indicate compartment divisions by using the line tool to mark the different compartment divisions.
- Step 6: If you would like hook and loop fastener strips attached to the base of the cushion and/or cover, specify the type and the location on the front of this worksheet. Strips near the edge of the cushion can be both glued and sewn, but strips located toward the center of the cushion can only be glued.

Step 7: Is a cover required?

ROHO^a Neoprene Cushion Sizing Chart

Fits Wheelchair Size (in. / cm)	Number of Cells	
10 / 22 to 26.5	5	
11 / 12 to 26.5 to 31	6	
13 / 31 to 35	7	
14 to 15 / 35 to 39.5		
16 to 17 / 39.5 to 44	9	
18 to 19 / 44 to 48.5	10	
20 to 21 / 48.5 to 52.5	33	
22 / 52.5 to 57	12	
23 to 24 / 57 to 61	13	
25 / 61 to 65.5	14	
26 to 27 / 65.5 to 70	15	

100 N. Florida Avenue - Belletile, IL 62221-5429 - USA US: 1.800.851.3449 - 1.618.277.9173 - Fax: 1.888.551.3449

permoblus.com - orders.roho@permobiLcom





Clinical Application: Meet Bev

- Diagnosis: Spina Bifida
 - Left BKA
 - Right foot drop
 - Extensive nerve damage to buttocks

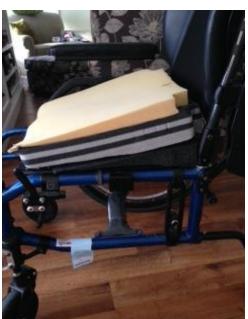
around ITs

- Sitting tolerance limited
- Stands most of the day









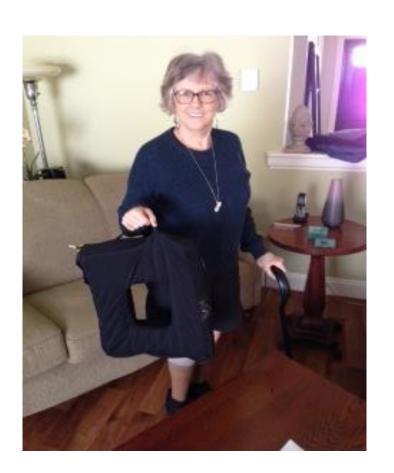
Clinical Application: Meet Bev





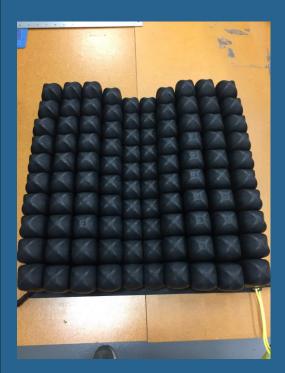






Varying Cell Heights

Offloading for Pressure Injury
 Prevention and Comfort





Cell Row Removal

Leg Length Discrepancies





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Comfort Design Custom Backs

Comfort Design Back Options

- Customizable options offered on Acta Back, Acta Back Deep, Acta Embrace and Acta Relief
- Foam layering to accommodate the end user's unique needs
- Ability to provide anterior/posterior contours through unique patented technologies
 - Moldable Stays
 - BOA Technology
- Foam in place option
- Lightweight aluminum shell and hardware
- Wide variety of sizes





Hardware Options

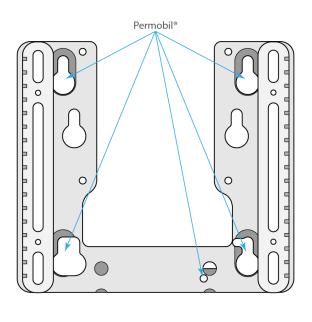
Manual(Quick Release/Fixed)





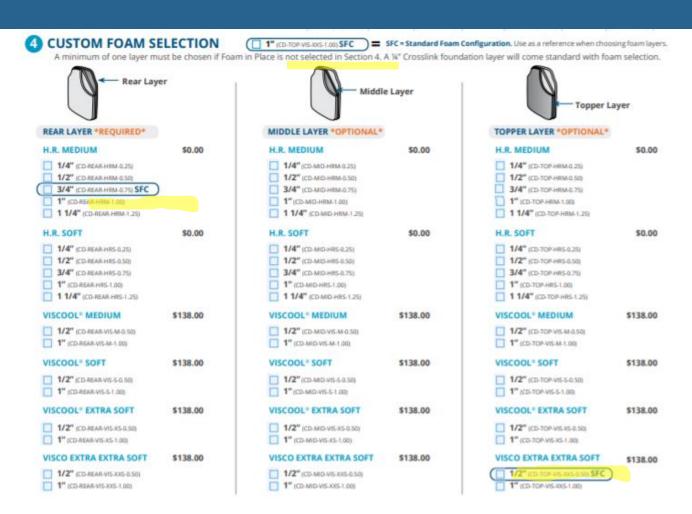
Direct Mount for Power





Custom Options

- Acta Back, Acta Back Deep, Acta Embrace, Acta Releif
 - Foam Selection
 - Cover Options
 - Hardware Options
 - Colored Piping
 - Embroidery
 - Privacy Flaps
 - Military Branch Patches
 - Accessories





Acta Back





- Foam In Place Kit
- Moldable stays

MOLDABLE ALUMINUM STAYS

SPACE BETWEEN STAYS

\$0.00

- 1" (CD-STAY-1.0)

 1 1/2" (CD-STAY-1.5)

 2" (CD-STAY-2.0)

 2 1/2" (CD-STAY-2.5)

 3" (CD-STAY-3.0)

 3 1/2" (CD-STAY-3.5)

 4" (CD-STAY-4.0)

 4 1/2" (CD-STAY-4.5)
- SPECIFY CUSTOM SPACING (CD-STAY-OTHER)
- NONE (CD-STAY-NONE)

Back support comes with two aluminum stays that can be molded to support spinal curvature. Stays are offset from the spine and held in place by pockets sewn into the rear of the cover.



Acta Back Deep





- Moldable Stays
- Lateral Depth and Heights

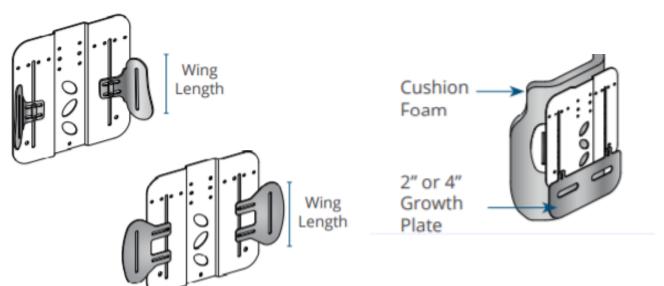
LATERAL DEPTH \$0.00 *Length (L) refers to the actual size dimension of the support from bottom to top edge. OMIT LEFT (CD-DEEP-LAT-L-OMIT) OMIT RIGHT (CD-DEEP-LAT-R-OMIT) 3" D x 5" L LEFT (CD-DEEP-LAT-L-3) 3" D x 5" L RIGHT (CD-DEEP-LAT-R-3) 5" D x 6" L LEFT (CD-DEEP-LAT-L-5) 5" D x 6" L RIGHT (CD-DEEP-LAT-R-5) 7" D x 7" L LEFT (CD-DEEP-LAT-L-7) 7" D x 7" L RIGHT (CD-DEEP-LAT-R-7) Laterals are mounted at **EXAMPLE** a fixed height position. Laterals are width and angle adjustable. Lateral pad height changes with different depth selections. If specific wing height location is needed, please 18" L Back Support indicate in the notes below.

Acta Embrace





- Moldable Stays
- Contoured or Linear Wings
- Foam in Place Kit
- 2" or 4" Growth Plate



Acta Relief





- Foam in Place Kit
- BOA Technology



Clinical Application: Meet Anthony

- Diagnosis: Scheuermann's disease
- Limited intervention when younger
- Severe pain and sensitivity along the spine curvature
- Decreased mobility due to pain associated with activity and prolonged standing







Clinical Examples



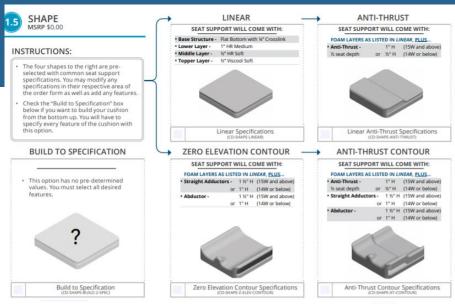






Inception Custom Cushion

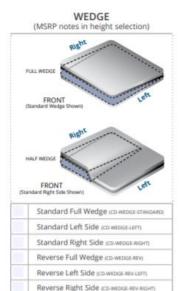
- Cover Options
 - Colored piping
 - Military Patches
- Size
 - 10"x10" 28"x 22"
- Base
 - Wedge, Flat, Round
- Shape
 - Linear, Anti thrust, Contour

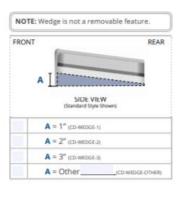




FRONT VIEW

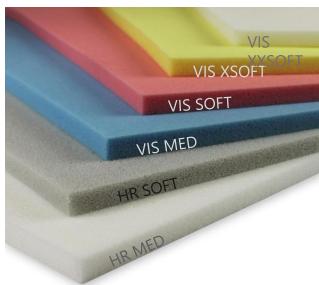
Round Bottom (CD-ROUND-BOTTOM)

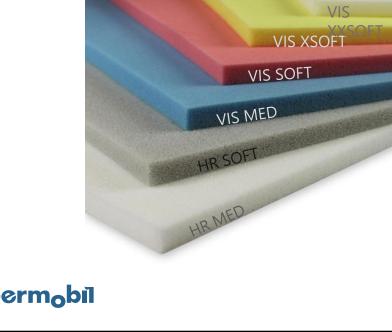


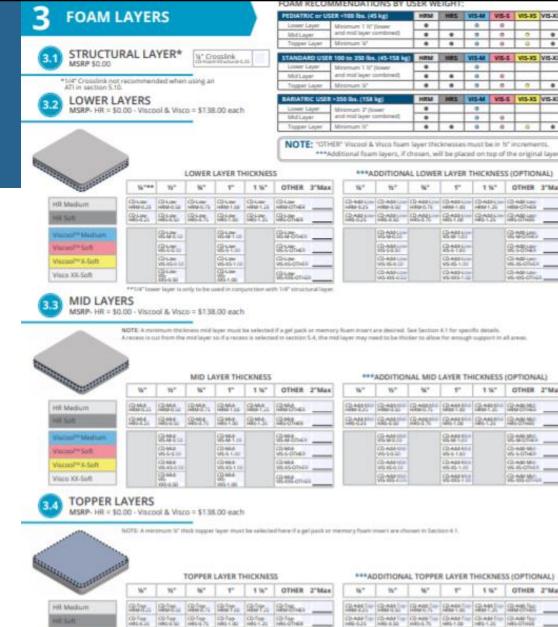




- Foam Layers
 - Lower, Mid and Topper
 - **Additional Layers**







CD-Tap VD-M-1-D

SEPT.

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St. Darray

S2.285.ca

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PRODUPING SAR

viscool**X-Soft

Visco XX-Soft



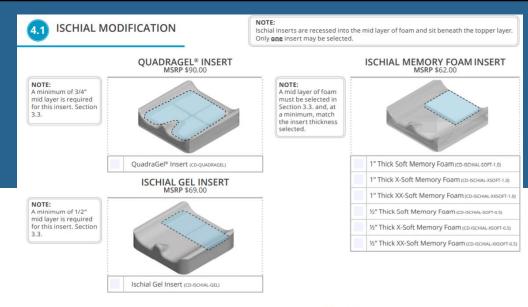
@155m

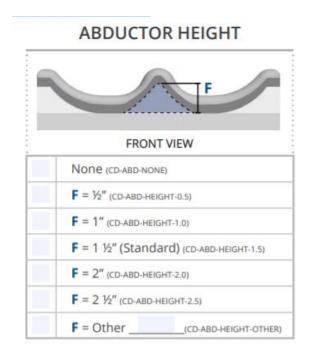
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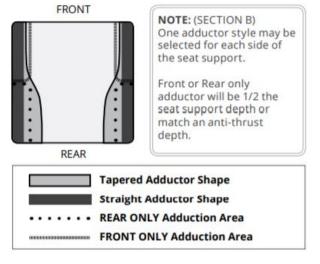
是智慧。

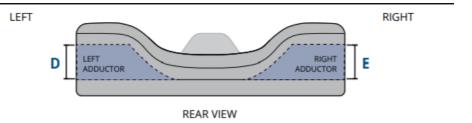
SEARCH.

- Ischial Inserts
 - Quadragel, Memory Foam, Gel
- Abductors
 - Height
- Adductors
 - Type
 - Height







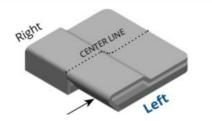


COCCYX CUT OUT

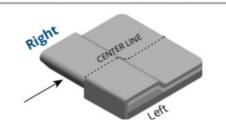
- Recess
 - Full length, rear quadrant
- Coccyx Cut Out
- Leg Length Discrepancy
- Hamstring Relief
 - Full Width, One sided
- Growth Notches
- Rail Cuts
- Accessories
- Seat Insert
 - Rigid,
 - Adjustable Technology Insert(ATI)







RIGHT SIDE RELIEF



FULL LENGTH RECESS



















Inception Custom Kit

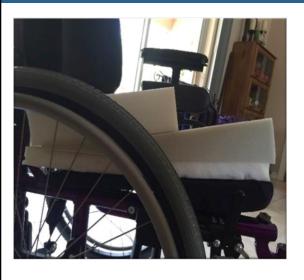


Clinical Application: Meet Helen

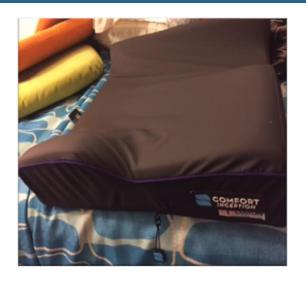
- Diagnosis: T10 Complete Paraplegia
 - Spinal fusion T8-T12
 - Pressure injury on coccyx and right IT leading to osteomyelitis of right hip joint
 - Decreased kidney function with external nephrostom
 - Partially flexible right pelvic obliquity
 - Decreased left hip and knee flexion



The Solution











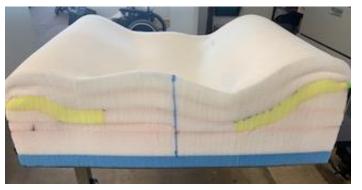
Wedging/Anti Thrust







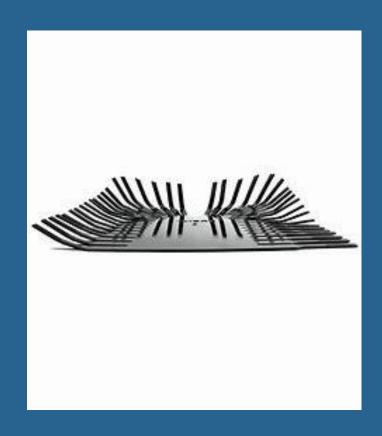
Hamstring Relief, Adductors, Foam Layering







Inception Cushion with ATI







TruShape Custom Molded Seating

TruShape

- Biomechanical approach of maximizing the contact surface area
- Precise contouring and immersion
- Skin and deep tissue protection
- Provides stability and postural support





Why Custom Molding?

- Significant postural deformities
- History of skin breakdown/deep tissue injury
- Muscle weakness or low tone
- Abnormalities in muscle control









Clinical Application: Meet Todd

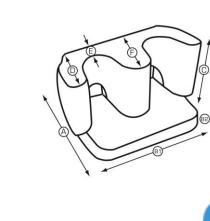
- Diagnosis-Cerebral Palsy
- Poor positioning in wheelchair,
 Limited sitting tolerance
- Severe pain
- Severe spinal deformities with Kyphosis and Lordosis
- Frequent hip dislocations, undergoing 2 Femoral Head Ostectomies



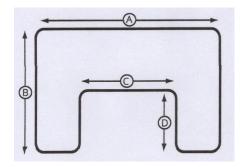


Custom Secondary Supports and Accessories

Comfort Custom Designs

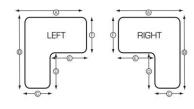


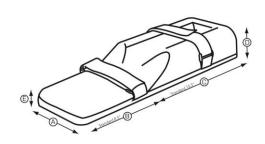


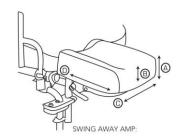


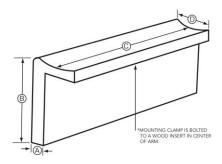


CD Comfort Designs



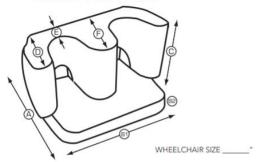






NON-STANDARD TEMPLATE

COMPLETE FEET



PLEASE FILL OUT THE FOLLOWING

Product Information

1) DIMENSION OF	.		5) DIMENSION OF (D:	
1) DIMENSION OF	(A)		5) DIMENSION OF	_
2) DIMENSION OF Actual Width (Not Chair S			6) DIMENSION OF (E):	
3) DIMENSION OF Foot Support Thickness	❷:	"	7) DIMENSION OF (F):	"
4) DIMENSION OF	©:		8) INCLUDE GEL: Yes or No (circle on "Gel only available for foot support.	a)*





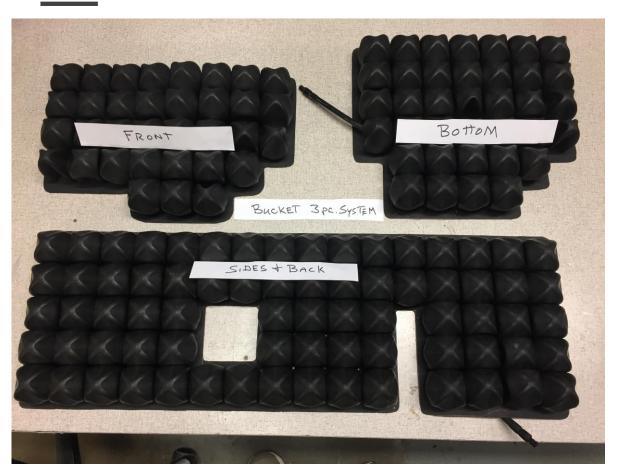






Hemicorporectomy

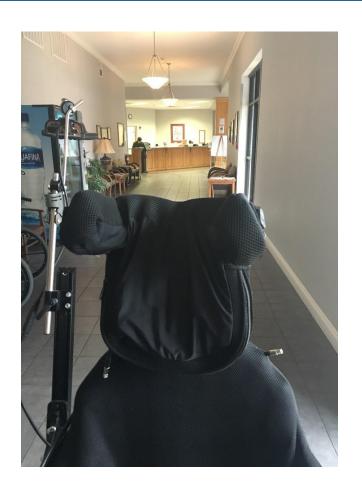




Savant headrest with custom ROHO® headrest pad







In Summary



Use a client-centered approach



Involve the entire team



Don't be afraid to choose custom



Document your recommendations



Think outside of the box

Thank You

Questions???

education@permobil.com

permobil

Resources

- Custom order forms for Comfort Products- https://comfortcompany.com/downloads
- Comfort Orders send to <u>orders.comfort@permobil.com</u>
- ROHO Custom Cushion

https://permobilus.com/wpcontent/uploads/2019/10/Design-a-ROHO-Sheet INTERACTIVE 092519.pdf

- ROHO custom Seating Portal link for Custom Agility back https://seating.custom.permobil.com/
- ROHO orders send to <u>orders.roho@permobil.com</u>
- Trushape Itemized Order Form https://permobilus.com/wp
 content/uploads/2020/05/OBSS TruShape Itemized-US 102918.pdf
- Trushape Packages Order Form https://permobilus.com/wp
 content/uploads/2020/05/OBSS TruShape Packages-US 041918.pdf
- Trushape orders go to <u>orders.shape@permobil.com</u>

Upcoming Virtual Learning

Rugged and Reliable: Permobil Heavy
Duty Product Solutions

Presenters:

Catherine Sweeney Ginger Walls

August 12, 2020 1 pm-2pm EST

