

The Evolution



The cushion of choice for wheelchair users with a high risk of tissue breakdown and symmetrical positioning needs

Available With the Following Options:

Cover: **Mesh or Incontinence**

Valve: **Standard or PSV**

Accessories: **Wedge or Wave Bases**

Size Range: **10x10" - 24x20"**

The Evolution Cushion

Tissue Integrity

Immersion	✓✓✓
Dispersion away from bony areas	✓✓✓
Air/water vapour circulation	✓✓✓
Temperature balance	✓✓✓
Fail safe	✓✓✓
Stretch covers	Yes
Choice of covers	Yes
Transfer damage risk (from friction and/or shear)	Reduced

Posture

Neutral pelvis	✓✓✓
Pre-ischial Ridge	✓✓✓
Stability	✓✓
Lateral support	✓✓
Thigh abduction	✓✓
Trochanteral ledge	✓✓
Gluteal support	✓

Functionality

Lightweight	✓✓✓
Comfort	✓✓✓
Enables day to day activities	✓✓
Vibration dampening	✓✓✓
Low maintenance	✓✓
Machine washable cover/wipe down cushion	✓✓✓
Visible directions for use	✓✓
Functional life	✓✓✓
Warranty	2 year - cushion 1 year - cover
Size range	10x10" - 24x20"
User weight limit	None
Usability	✓✓
Stability	✓✓
Customisability	✓

The Evolution Cushion



- 1. Air-Foam Floatation**

The functional areas of the cushion are created by three types of foam; soft foam under the decubitus-sensitive area of the ITs; medium foam for the thigh trough, pelvic bucketing and pre-ischial bar; and firm foam to provide support through the perimeter and medial thigh separator.
- 2. Positioning Supports**

Positioning supports improve stability, which is important for users with compromised sitting balance or who transfer frequently. Multi-stiffness foam provides support as the user is immersed in the cushion. Medial and lateral supports minimise internal and external lower extremity rotation. Pelvic bucketing and a pre-ischial ridge help maintain pelvic position, and thigh troughs promote a natural femoral position.
- 3. Valve for Adjusting Air Volume**

The Evolution PSV uses Varilite's patented Pressure Setting Valve. The Evolution is also available with a traditional two-way Varilite valve.
- 4. Cover**

The Evolution comes complete with either a mesh or incontinence cover made from a breathable two-way stretch fabric. Reticulated foam inside promotes air exchange and improves pressure redistribution. The Evolution cover is machine washable, tumble dryable and meets ISO 7176-16 ignition resistance standards for upholstered wheelchair components.
- 5. Wedge**

A modifiable closed-cell foam wedge is available with each Evolution, to assist pressure redistribution from the sensitive ITs onto the thighs. (See also Evolution and Meridian Accessories pg 18)

Varilite Standard Wedge used in conjunction with the Evolution

Our Varilite Standard Wedge reduces the seat to back angle which increases the weight-bearing load on the back of the thighs and decreases the load on the buttocks. The 5cm (2") tapered wedge trims easily for custom fitting to meet individual needs.

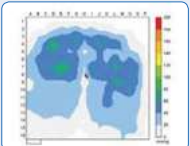


Fig 1. FSA Pressure Mapping without Wedge

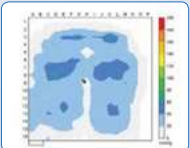


Fig 2. FSA Pressure Mapping with Wedge

As air is released from the cushion, the user becomes immersed in the foam. The different foams conform to the user's shape.



Fig 3. Immersion

As immersion increases, the load is distributed over more of the cushion's surface area and pressure points are reduced. Optimal pressure redistribution is achieved when the load is distributed over the largest surface area.



Evolution											
	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
w/ Mesh Cover	72410	74410	74610	74810	74010	75510	75710	76410	76610	76810	76010
w/ Incontinence Cover	72420	74420	74620	74820	74020	75520	75720	76420	76620	76820	76020
	17x17" (43x43cm)	18x16" (46x40cm)	18x18" (46x45cm)	18x20" (46x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
w/ Mesh Cover	77710	78610	78810	78010	70610	70810	70010	7281B	7201B	7481B	7401B
w/ Incontinence Cover	77720	78620	78820	78020	70620	70820	70020	7282B	7202B	7482B	7402B

Evolution PSV											
	12x14" (30x35cm)	14x14" (35x35cm)	14x16" (35x40cm)	14x18" (35x45cm)	14x20" (35x50cm)	15x15" (38x38cm)	15x17" (38x43cm)	16x14" (40x35cm)	16x16" (40x40cm)	16x18" (40x45cm)	16x20" (40x50cm)
w/ Mesh Cover	72415	74415	74615	74816	74016	75515	75715	76415	76615	76815	76015
w/ Incontinence Cover	72425	74425	74625	74826	74026	75525	75725	76425	76625	76825	76025
	17x17" (43x43cm)	18x16" (46x40cm)	18x18" (46x45cm)	18x20" (46x50cm)	20x16" (50x40cm)	20x18" (50x45cm)	20x20" (50x50cm)	22x18" (55x45cm)	22x20" (55x50cm)	24x18" (60x45cm)	24x20" (60x50cm)
w/ Mesh Cover	77715	78615	78815	78015	70615	70815	70015	72815	72015	74815	74015
w/ Incontinence Cover	77725	78625	78825	78025	70625	70825	70025	72825	72025	74825	74025