



Supporting your needs

See p.5 for the  
'One Stop Shop'  
SELECTION  
CHART



# 'One Stop Shop' for Back Supports

# We Pride Ourselves on Sharing our Knowledge



BES has been established for more than 21 years, and in these years we have worked with healthcare professionals, been part of assessment processes, helped out with fittings on different wheelchairs, seen clients in situ and catered to their postural needs. Our managing director, Dr Barend ter Haar, has helped to create a number of the ISO wheelchair and seating standards, over the last 15 years. His years of experience within the healthcare industry, together with a group of market leading international suppliers, has given us immense knowledge that we would like to share with our customers.

BES offers free of charge training programmes on clinical information and solutions on head to toe positioning, tips and techniques for mounting wheelchair accessories and much more. You do not need to travel or come to us; in fact we will come to you, to your service, and your team, to deliver the training. Training sessions can be great opportunity to interact with colleagues, share experiences and learn from each other.

**To book a free training session or to find out more, call us on+44 (0) 1179 666 761**

## Did you know?

To meet ISO terminology standards we describe the vertical dimension of a back support as its length. This is to avoid using the term height which indicates the distance the top of the back support is situated from the seat base, or any other reference point.



## Our Core Values

### Superior Service

- ✓ Fast turnaround for orders
- ✓ Highly trained office and sales personnel
- ✓ National coverage

### Understanding our Customers

Every customer has different needs, and we pride ourselves on being able to listen to those needs and support them by offering the right solution, hence our by-line 'Supporting your needs.'

### Education

We help train our customers to measure and assess their clients' clinical needs, and therefore get the best from our products. We provide our customers with the information they need in order to make informed decisions that lead to patients getting the best level of care possible.

### Integrity

We pride ourselves in providing world-leading products which are sold ethically and are of clinical value to our customers.

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# The New Varilite JUNIOR Back Support

## Paediatric Seating - Sized for Children

The new Varilite JUNIOR back supports are proportionally designed for a child's body, keeping in mind that children are not small adults. Available in deep contour and active contour, the JUNIOR back supports offer moderate postural support and alignment. The Varilite JUNIOR back supports are lightweight, sleek, compact, and simple to use, for maximum support with minimal fuss.



The JUNIOR back systems provide good support to growing children. Air-foam construction coupled with lightweight aluminium makes them a great option for self-propellers. The back systems are easy to adjust, insert, and remove from the chair. See Pages 9-12 for more information and order codes.



# Seating Systems - Selection Guide (Synopsis)

	Dynamic	Suitable for transportation/ Crashworthy	Chair Widths	Number of chair widths	Inside width range	Upright Mountable	Rigidiser bar mountable	Back lengths	Choice of Depths	Fixed lateral option	Swingaway lateral option
<b>Dynaspine</b>											
Dynaspine	Yes	-	17-19"	3	16"	2pt	No	16"	No	No	No
<b>Varilite</b>											
Varilite Icon Low Back	No	-	14-20"	6	11-17"	2pt	No	7-10"	No	No	No
Varilite Icon Mid Back	No	-	12-24"	9	10-21"	2pt	No	10-16"	No	Yes	Yes
Varilite Icon Tall Back	No	Yes	12-20"	7	10-17"	2pt	No	15-24"	No	Yes	Yes
Varilite Icon Deep Back	No	Yes	14-20"	6	11-17"	2pt	No	17-24"	No	No	No
Varilite Junior Mid Back	No	-	10"	1	9"	2pt	No	9"	No	Yes	Yes
Varilite Junior Deep Back	No	Yes	10"	1	10"	2pt	No	9"	No	Yes	Yes
Varilite Talon Back	No	-	14-20"	6	12-17"	No	Yes	6-9"	No	No	No
<b>ADI</b>											
ADI Aluminium Low Back	No	-	10-20"	11	8-17"	2pt	No	10"	Yes	No	No
ADI Aluminium Medium Back	No	-	12-20"	9	10-17"	2pt	No	13"	Yes	Yes	Yes
ADI Aluminium Standard Back	No	-	14-20"	7	11-17"	2pt	No	16"	Yes	Yes	Yes
ADI Aluminium Tall Back	No	Yes	16-20"	5	14-17"	2pt	No	18"	Yes	Yes	Yes
ADI Aluminium Extra Tall Back	No	Yes	16-20"	5	14-17"	2pt	No	20"	Yes	Yes	Yes
ADI Carbon Fibre Low Back	No	-	13-19"	7	11-16"	2pt + 4pt	No	10"	Yes	No	No
ADI Carbon Fibre Medium Back	No	-	13-19"	7	11-16"	2pt + 4pt	No	13"	Yes	Yes	Yes
ADI Carbon Fibre Standard Back	No	-	13-19"	7	11-16"	2pt + 4pt	No	16"	Yes	Yes	Yes
<b>Stealth</b>											
Stealth Ultralightweight Paediatric	No	Yes	8-12"	3	6-10"	2pt	Yes	10-12"	No	Yes	No
Stealth Newback Standard	No	Yes	11-20"	5	7-15"	4pt	No	12-20"	No	Yes	Yes
Stealth Newback Tall	No	Yes	11-18"	4	7-14"	4pt	No	14-20"	No	Yes	Yes
Stealth Newback Extra Tall	No	Yes	15-16"	1	15-16"	4pt	No	20"	No	Yes	Yes
Stealth Newback Standard + FIPS	No	Yes	11-20"	5	7-15"	4pt	No	12-20"	No	Yes	Yes
Stealth Newback Tall + FIPS	No	Yes	11-18"	4	7-14"	4pt	No	14-20"	No	Yes	Yes
Stealth Newback Extra Tall + FIPS	No	Yes	15-16"	1	15-16"	2pt	No	20"	No	Yes	Yes

## Inches to Centimetres conversion

In	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
cm	2.5	5.0	7.6	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	46.0	47.5	50.0



A dynamic back  
support to replace  
wheelchair backs  
and canvasses

DYNA  SPINE™

# Dynaspine Back Support



## A dynamic back support to replace wheelchair back canvasses

Poor posture can lead to backache and other back problems. Good posture means that the spine is aligned correctly and supports the head. Physiological functions such as breathing, digestion, and blood circulation, are enhanced by good trunk posture.

Back pain may occur in any region of the back, from the base of the skull to the hips, and is usually a symptom of stress or damage to ligaments, muscles, nerves, discs, or other supporting structures to the spine. It is critical that as well as providing your back with static support, a back support should encourage you to move. Static canvas back supports hold the spine in one position, do not allow for easy adjustability, nor dynamic movement, any one of which can lead to back pain.

### Does your back support:

- Help reduce back pain?
- Allow for dynamic movement?
- Improve posture?
- Provide better seating?

Sitting is an activity. Very few people stay in the same seated position for long. A seating system that encourages and enables dynamic movement balanced with suitable support is the ideal - the ideal provided by **Dynaspine**.



# Dynaspine Back Support

## What is Dynaspine?

Dynaspine is a revolutionary back support technology with a unique design. The flexible ergonomic design supports dynamic activity and function, and is the first of its kind that allows for dynamic movement of the spine. It has two flexible back support plates, specially designed to mould and adjust to your position whilst seated, ensuring correct posture is maintained and your back is always supported. The dynaspine is particularly helpful for users who have nerve pain and tension in the spine and shoulders, which is normally aggravated by continuous sitting.

## What makes the Dynaspine Unique?

Dynaspine has a unique design with two back plates which contour to the the back and support the spine. The back is designed to move and allow for dynamic activity while being seated. The central vent and other small vents within the back support promote air flow. Its unique design is aesthetically pleasing and discreet.

### Proven Success

"The back is not designed to be static. A lack of movement can result in back pain even in a healthy spine. Long hours hunched over a work desk without the appropriate support and movement can cause musculoskeletal problems. A suitable back support that allows for the correct movement of the spine such as Dynaspine will not only help alleviate back pain symptoms, but also prevent them from occurring in the first place."

**Martin Haines**

Leading UK Physiotherapist and Biomechanics coach

### Features and Benefits

#### Ergonomic design

Conforms to the contours of your spine for ideal fit

#### Height-adjustable

Allows for correct fitting for all shapes and sizes

#### Design for flexibility

Allows movement while still offering optimal support

#### Central vent

Promotes optimal airflow, and is lightweight

#### Dynaspine is easy to:

- ✓ Assemble
- ✓ Use
- ✓ Take with you

- ✓ Dynamic
- ✓ Promotes Air Flow
- ✓ Reduces Back Pain

Product Code  
**DSWCA**  
fits chair widths  
17" to 19"



**NEW**

**Varilite Junior Back Supports Now Available.**

Comfortable and ultralightweight in 10" Mid and Deep contours. Proportionally designed for a child's body, Varilite Junior Back Supports are compact, and simple to use, for maximum support with minimal fuss.

**Icon and Talon Back Supports**



# Varilite Icon Back Supports - Comfort at its best

A comfortable back support is normally a user's first priority, and the Icon back support system is designed to contribute to the most comfortable seating along with proper positioning and postural support. The rollover cushion and cover, air and dual stiffness foam cushioning, and breathable fabric are the essential elements that make this possible. The Icon cushions are made of Varilite Air-Foam Flotation technology which adds to the lightweight nature of these back supports.

## Icon Low Back Support



### Pelvic and Lumbar Support for a user with good trunk control

The Icon Low Back Support is an ideal lightweight solution for users needing lower trunk support and full adjustment. The upper body is unimpeded, which allows full range of motion of the upper body and trunk. The shell curves around the sides of the body for mild lateral support, while the accompanying enhanced rollover cushion protects the user and provides maximum comfort. (The Icon Low Back Support is unsuitable for users who require an additional head support or anterior thoracic supports).

## Icon Mid Back Support



### Mid-Trunk Support for a large range of body types

The Icon Mid Back Support supports the user just below the scapulae so the back does not interfere with arm movement during propelling or other activities. The shell provides mid-lateral support. Secondary supports attach easily if more aggressive lateral support is required. The Icon features an enhanced rollover cushion to protect the user and give added support. (The Icon Mid Back Support is unsuitable for users who require an additional head support or shoulder harness).

## Icon Tall Back Support



### Full Trunk Coverage for moderate to maximum support and comfort

The Icon Tall Back Support supports the entire back to the top of the shoulders. This is ideal for users with decreased trunk control, those who need a back support for use during transportation, or where a head support needs to be added. The curved shell provides moderate back support. The Icon Tall provides full trunk coverage which makes it a comfortable back to lean on. Individual lateral supports can be added for increased thoracic support if required. The Icon Tall Back Support has passed transportation crashworthiness testing.

## Icon Deep Back Support



### Full Trunk Coverage and Deep Lateral Support

The Icon Deep Back Support supports a user's back to the top of the shoulders, along with extra lateral support and comfort to the thoracic trunk. The deep contour of the back provides more lateral support for users with poor trunk control. The Icon Deep includes a closed-cell foam PSIS (Posterior Superior Iliac Spine) block and supplemental lateral pads that attach to the shell with adhesive hook and loop. The PSIS block provides support to the pelvis at the PSIS level, promoting neutral pelvic tilt and spinal extension. The supplemental lateral pads help customise the fit. The Icon Deep has passed transportation crashworthiness tests.

# Varilite Icon Back Supports - Dimensions

## Guide to help selection of the appropriate Icon Back Support

Chair width	Back Length (A)		Bottom of back to beginning of vertical slot (B)		Bottom of back to top of vertical slot (C)		Range of Icon hardware adjustment in vertical slot (D)		Outside width of shell (E)		Width of support (F)		Length of fixed Lateral Support (G)		Measurement diagram
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	
<b>Icon Low Back Support</b>															
14"	18	7.1	4	1.6	14	5.5	1	0.4	29	11.4	27	10.6	-	-	
15"	20	7.9	4	1.6	14	5.5	1	0.4	31	12.2	29	11.4	-	-	
16"	21	8.3	4	1.6	14	5.5	1	0.4	34	13.4	32	12.6	-	-	
17"	22	8.7	4	1.6	14	5.5	1	0.4	37	14.6	35	13.5	-	-	
18"	23	9.1	4	1.6	15	5.9	2	0.8	39	15.4	37	14.6	-	-	
20"	24	9.4	4	1.6	15	5.9	2	0.8	44	17.3	42	16.5	-	-	
<b>Icon Mid Back Support (Including Junior)</b>															
10"	23.5	9.3	2.5	1	17.8	7	12.5	4.9	21.8	8.6	19	7.6	-	-	
12"	25	9.8	3	1.2	13	5.1	1	0.4	24	9.4	22	8.7	-	-	
14"	28	11	4	1.6	17	6.7	4	1.6	29	11.4	27	10.6	-	-	
15"	31	12.2	4	1.6	18	7.1	5	2	31	12.2	29	11.4	-	-	
16"	32	12.6	4	1.6	19	7.5	6	2.4	34	13.4	32	12.6	-	-	
17"	34	13.4	4	1.6	20	7.9	8	3.1	37	14.6	35	13.5	-	-	
18"	36	14.2	4	1.6	22	8.7	9	3.5	39	15.4	37	14.6	-	-	
20"	40	15.7	4	1.6	22	8.7	9	3.5	44	17.3	42	16.5	-	-	
22"	40	15.7	4	1.6	22	8.7	9	3.5	49	19.3	47	18.5	-	-	
24"	40	15.7	4	1.6	22	8.7	9	3.5	54	21.3	52	20.5	-	-	
<b>Icon Tall Back Support</b>															
12"	37	14.6	5	2	23	9.1	9	3.5	24	9.4	22	8.7	-	-	
14"	43	16.9	6	2.4	24	9.4	9	3.5	29	11.4	29	11.4	-	-	
15"	46	18.1	6	2.4	27	10.6	11	4.3	31	12.2	31	12.2	-	-	
16"	49	19.3	8	3.1	28	11	11	4.3	34	13.4	34	13.4	-	-	
17"	52	20.5	8	3.1	28	11	11	4.3	37	14.6	37	14.6	-	-	
18"	55	21.7	9	3.5	29	11.4	11	4.3	39	15.4	39	15.4	-	-	
20"	60	23.6	9	3.5	29	11.4	11	4.3	44	17.3	44	17.3	-	-	
<b>Icon Deep Back Support (Including Junior)</b>															
10"	23.5	9.3	2.5	1	17.8	7	12.5	4.9	25.1	9.9	22.6	8.9	14.5	5.7	
14"	43	16.9	6	2.4	24	9.4	9	3.5	32	12.6	30	11.8	29	11.4	
15"	46	18.1	6	2.4	27	10.6	11	4.3	36	14.2	34	13.4	32	12.6	
16"	49	19.3	8	3.1	28	11	11	4.3	39	15.4	37	14.6	35	13.8	
17"	52	20.5	8	3.1	28	11	11	4.3	41	16.1	39	15.4	36	14.2	
18"	55	21.7	9	3.5	29	11.4	11	4.3	44	17.3	42	16.5	38	15	
20"	60	23.6	9	3.5	29	11.4	11	4.3	50	19.7	48	18.9	41	16.1	

# Varilite Icon Back Supports - Order Codes

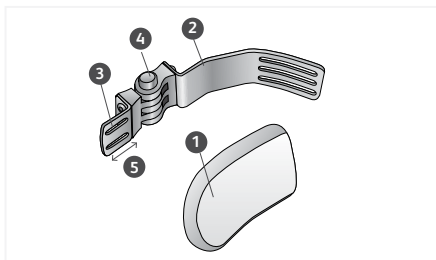
## 1. Choose your Varilite™ Icon Back Support

Varilite Icon Back Support Systems - Order Codes										
Back Type	Width*									
	10" (25cm)	12" (30cm)	14" (35cm)	15" (38cm)	16" (40cm)	17" (43cm)	18" (45cm)	20" (50cm)	22" (55cm)	24" (61cm)
Low Back	-	-	32141	32151	32161	32171	32181	32201	-	-
Mid Back	12101	12121	12141	12151	12161	12171	12181	12201	12221	12241
Tall Back	-	22121	22141	22151	22161	22171	22181	22201	-	-
Deep Back	42101	-	42141	42151	42161	42171	42181	42201	-	-

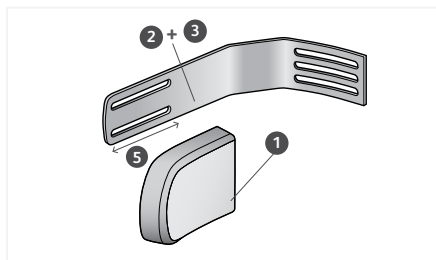
\* Mounting hardware adjustability allows for +/- 1" (2.5cm) variance

## 2. Choose either a PAL Swing-Away (2a) or a Fixed Lateral Support (2b)

**2a) Positive Action Lateral, PAL™ Swing-aways** are designed to use with the Icon Mid and Icon Tall backs, providing lateral positioning and support wherever needed. A PAL lateral system is made up of a lateral pad (1), shell bracket (2), pad bracket (3), and a push button hinge (4).



Pal swing-away lateral supports



Fixed lateral support

**1. Pads:** Pads are available in choices of contoured or linear styles in three sizes. They are made of closed-cell foam with a steel insert that allows horizontal pad adjustment. The pad foam is protected with a removable, machine washable cover.

**2. Shell Bracket:** The steel Shell Bracket is contoured to mount on the inside of a Varilite Icon Mid or Tall Back shell. The low profile bracket is less than 1/8" thick.

**3. Pad Bracket:** Constructed of steel for strength, the steel pad bracket attaches securely to the pad. Easy adjustment allows +/- 10 degree of vertical pad rotation. Pad brackets are available in short, long, and offset configurations.

**4. Push Button Hinge:** An easily activated push button unlocks the PAL swing away hinge mechanism. Positive locking action indicates when the hinge is securely locked. The hinge can be angle adjusted for up to 225 degrees of swing.

### 5. Anterior-Posterior Adjustability

**2b) Fixed Lateral Supports:** Fixed lateral supports are available for situations when a swing-away lateral is not required. Fixed lateral supports consist of a combined shell and pad bracket, and require a pad.

2a. Select Bracket (PAL Swing-away lateral for Icon Backs)							
Pad Bracket (3)	Anterior Pad Adj.	10" (25cm)	12" (30cm)	14-15" (35-38cm)	16-17" (40-43cm)	18" (45cm)	20-24" (50-60cm)
Short	1" (2.5cm)	-	89050	89010	89020	89030	89040
Short w/2cm offset	1" (2.5cm)	07218	89250	89210	89220	89230	89240
Long	2.2" (5.7cm)	-	89150	89110	89120	89130	89140

OR

2b. Select Fixed Lateral Support						
Pad Bracket (3)	Anterior Pad Adj.	14-15" (35-38cm)	16-17" (40-43cm)	18" (45cm)	20-24" (50-60cm)	
Long	2.2" (5.7cm)	88010	88020	88030	88040	

3. Select Type and Size of Pad				
Pad	2x2" (5x5cm)	3x4" (7.5x10cm)	4x5" (10x12.5cm)	5x6" (12.5x15cm)
Curved	07219	04317	04319	04321
Linear	-	04307	04309	04311

Note: All items supplied singly, so if a pair is required please order two.

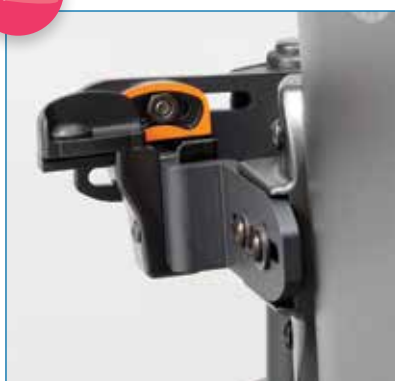
# Varilite Mounting Hardware and Accessories

## Ease of installation and removal improved further with a new design of mounting hardware

Icon back supports install on a wheelchair quickly and easily. Only two parts need to be attached to the wheelchair - all other hardware components are pre-installed. The back supports need just a single tool for installation as all of the adjustment screws are the same size. Icon hardware is symmetrical so there are no right-handed or left-handed components, making it simple to mount. The hardware provides a wide range of seat depth adjustment, without any need for any special extra-length parts. Posterior seat depth can be increased or anterior seat depth can be decreased easily by just reversing the hardware.

NEW

### Varilock Mounting Hardware (07483)



Varilock is the new and improved mounting hardware for the Varilite Icon Back Support systems. Varilock enables quick and easy insertion and removal of the shell from multiple angles, promoting ease of use. It features an ergonomic push button release slide cap that can be opened and closed easily, and locks into place when pushed closed.

The orange safety colour on the inside of the holster of the slide cap provides a visual indication when the slide cap is in an open position, thus promoting safety. The angle tolerances in the Varilock have been decreased by 50 %, thus reducing the amount of play in the back system.

## Ease of Adjustment

Icons and their mounting hardware allow for angle, width, height, and depth adjustment. The angle adjustment is +/- 20 degrees. Icons can be installed on wheelchairs that are 2cm wider or narrower than the back support. The lateral width adjustment is 5cm in total. Icon Back Supports provide a degree of height adjustment by simply loosening the shell brackets and sliding the shell into position. The depth position of the back support can be adjusted 3cm by moving the holster along the upright of the Varilock bracket.

## Varilite Accessories

Users who need extra support for correcting posture can utilise our PSIS block or Supplemental Lateral Support which can be attached to the shell of the Varilite back support and its lateral supports.

### PSIS Block (04249)

Provides support to the sacrum at the PSIS level, promoting neutral pelvic tilt and spinal extension.

### Supplemental Lateral Support (04266)

Provides additional support where desired. It helps users with lateral tendencies to maintain an upright position.

## Resistance to Flammability

Flammability tests were performed on the Icon cushions and covers by an independent laboratory according to the requirements of ISO 7176-16 (1997) standard for resistance to ignition of wheelchair upholstered parts. This standard specifies methods of testing to assess the resistance of the cover and cushion to ignition by cigarette or match, and states requirements that progressive smouldering and flaming resistance shall not occur.

## Crashworthiness

Varilite supports industry safety initiatives. The Icon Tall and Deep Back Supports have been dynamically tested for safe use in motor vehicles by an independent transport centre. The Icons conform to ISO16840-4 (for more information please visit [www.varilite.com](http://www.varilite.com) to download the RideSafe brochure).



# Varilite Talon Back Support

The Talon is a lower trunk support which positions clients properly by supporting the PSISs, and, because it's ultralightweight, it reduces fatigue and joint strain for those who propel manually. Plus, the Talon's low-profile design and contemporary finish complement modern rigid wheelchair designs. Designed to mount on a rigidiser bar of a rigid wheelchair.



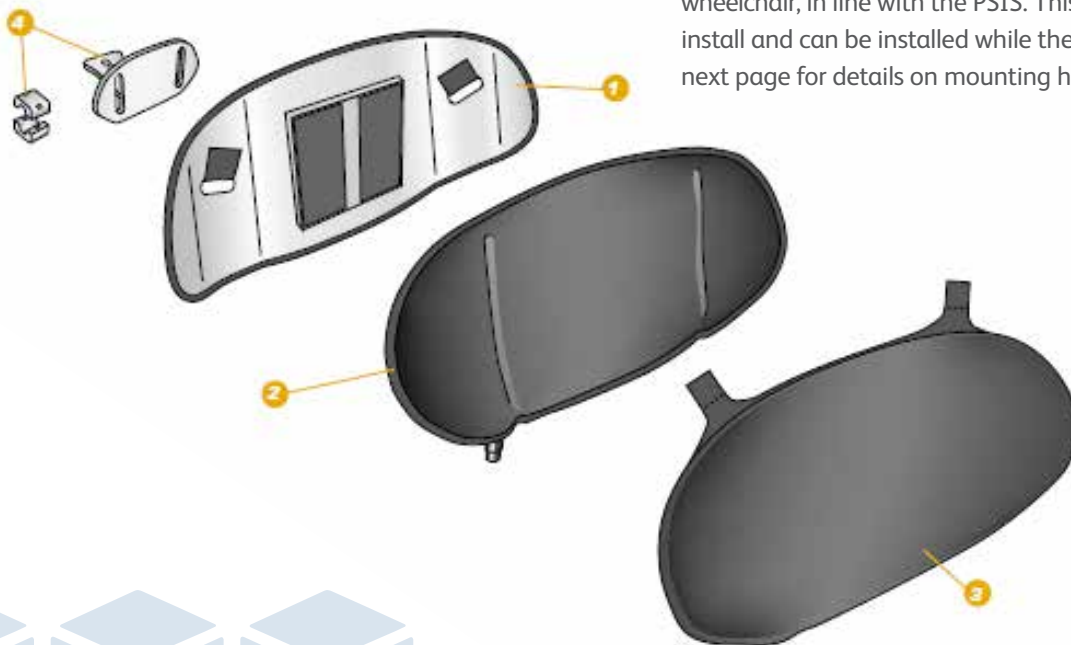
## Anatomy of a Talon

**1. Shell:** The Talon has a lightweight aluminium shell which provides support to soft-tissue areas. The Talon is oval-shaped for maximum support at the PSIS, and is tapered and contoured at the ends for lateral support. It has a low profile design allowing upper body freedom of movement.

**2. Cushion:** The Talon is manufactured with Varilite's air-foam technology. The foam is bonded to a puncture resistant material, while the two-way-stretch fabric makes the cushion hold air. The valve lets air in and out of the cushion for an individual fit. The cushion foam is thicker at the centre for vertebral support, and tapered at the sides to accommodate soft tissue during reaching activities.

**3. Cover:** The wrap-around cover provides maximum padding and protection. Two-way-stretch mesh fabric helps wick moisture and vapour away from the body. Pass-through attachment flaps and a large loop panel on the back of the cover attach securely to hook strips on the shell. The reticulated foam inside the cover promotes air and water vapour exchange, and improves pressure distribution. The Talon cover meets the ISO 7176-16 ignition resistance standard for upholstered wheelchair components, and is machine washable.

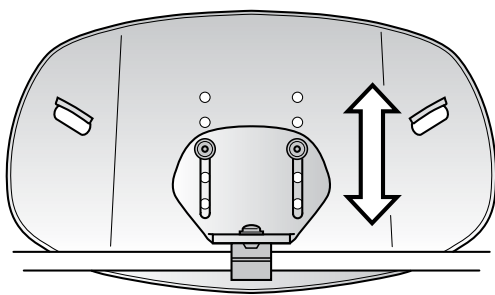
**4. Mounting Hardware:** The Talon hardware permits adjustment in 3 directions: height, depth, and angle adjustment. The hardware attaches to a rigidiser bar of a rigid wheelchair, in line with the PSIS. This hardware is easy to install and can be installed while the client is in the chair. (see next page for details on mounting hardware adjustments)



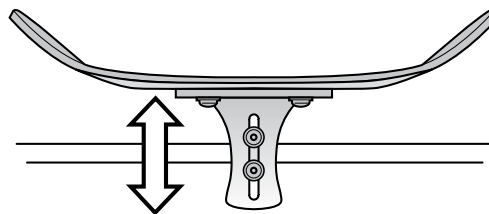
Talon™						
Width	14" (35 cm)	15" (38 cm)	16" (40 cm)	17" (43 cm)	18" (45 cm)	20" (50 cm)
Order Code	47517	47519	47521	47523	47525	47527
Length	6.1" (15.5 cm)	6.6" (16.8 cm)	7" (17.8 cm)	7.4" (18.8 cm)	7.9" (20.1 cm)	8.7" (22.1 cm)

# Varilite Talon Back Support

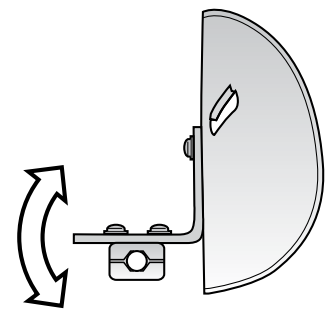
The Talon attaches to a wheelchair's rigidiser bar. Its mounting bracket provides adjustment in three directions, height, depth, and angle, and is available in three depths to permit a range of posterior and anterior positioning. For most users, the Talon is positioned with the shell in line with the back of the chair canes. The guide below shows the recommended mounting bracket based on rigidiser bar depth, as well as the range of posterior and anterior adjustment possible with each bracket.



Height adjustment



Depth adjustment



Angle adjustment

Talon™ Mounting Bracket Selection Guide						
Rigidiser Depth*	1.75" (4.4cm)	2.00" (5cm)	2.25" (5.7cm)	2.50" (6.3cm)	2.75" (7cm)	3.00" (7.6cm)
<b>Recommended Bracket (Short)</b>						
Posterior Adjustment†	0.25" (0.6cm)	0.50" (1.3cm)	0.75" (1.9cm)	1.00" (2.5cm)	1.25" (3.2cm)	1.50" (3.8cm)
Anterior Adjustment†	0.25" (0.6cm)	N/A	N/A	N/A	N/A	N/A
<b>Recommended Bracket (Medium)</b>						
Posterior Adjustment†	N/A	N/A	0.25" (0.6cm)	0.50" (1.3cm)	0.75" (1.9cm)	1.00" (2.5cm)
Anterior Adjustment†	0.75" (1.9cm)	0.50" (1.3cm)	0.25" (0.6cm)	N/A	N/A	N/A
<b>Recommended Bracket (Long)</b>						
Posterior Adjustment†	N/A	N/A	N/A	N/A	0.25" (0.6cm)	0.50" (1.3cm)
Anterior Adjustment†	1.25" (3.2cm)	1.00" (2.5cm)	0.75" (1.9cm)	0.50" (1.3cm)	0.25" (0.6cm)	N/A

**Notes:** \*As measured from the back of the upright canes to the front of the rigidiser bar. †Refers to the range of adjustment possible from the back of the upright canes.

Talon™ Mounting Bracket			
Size	Short	Medium	Long
Order Code	47532	47533	47534



# Aluminium and Carbon Fibre Back Systems

**ADI**  
ACCESSIBLE DESIGNS, INC.

# ADI Back Supports - For Active Users

ADI is a well-established manufacturer of high quality and innovative seating solutions, designed for wheelchair users by an active wheelchair user, to enhance mobility, independence, and well-being. ADI has always believed in evaluating and addressing the root of a problem in order to provide an effective and long lasting solution. BES Rehab Ltd distributes the ADI back supports which are lightweight (from 400g) and durable, promoting two options of either an aircraft quality aluminium shell or carbon fibre shell. These back supports are designed for clients with extra positioning needs, and start from ten inches wide.

## ADI Back Supports

ADI offers back supports designed with a broad choice of widths and lengths so that the angles of the back shell contour to the client's back. Back supports are available in two shell options, either made from aircraft quality aluminium or carbon fibre. ADI backs are intended for active users to provide added support, positioning, and comfort, and are available in an active, deep, or extra deep contour depending on individual requirements.

**The Aluminium shell** can fit chair widths ranging from 10" to 20" with +/-1" width adjustability depending on mounting hardware. The weight of a 16" standard back is less than 700 grams.

**The Carbon Fibre shell** is extremely lightweight, and can fit chair widths ranging from 13" to 19" with +/- 1" width

adjustability depending on mounting hardware.

The weight of a 16" standard back is well under 400 grams which makes it even lighter than the Aluminium back.

Both shell types are available in a range of contours.

The active contoured shell is 2.5" deep, the deep contoured shell 4" deep, and the extra deep 6" deep.

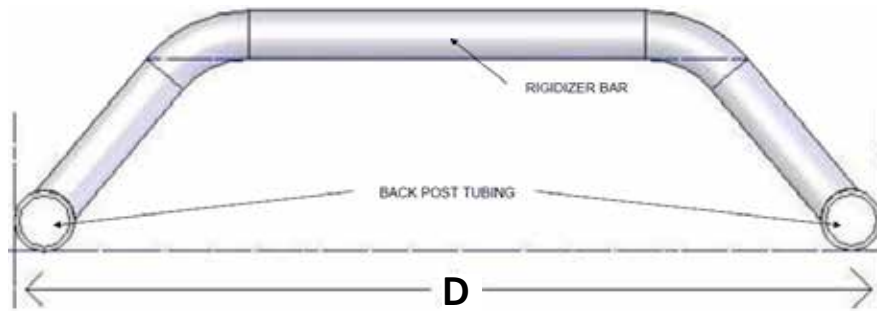
In the Carbon Fibre range, ADI offers three lengths - Low, Medium, or Standard, while in the Aluminium series, ADI offers five lengths - Low, Medium, Standard, Tall, or Extra Tall to cater for a large range of sizes. The range and variety, positioning, support, and comfort of ADI back supports makes them suitable for one and all. These back supports are extremely lightweight, making them excellent options for self propellers and active users.



# ADI Back Supports - Measurements

## Measuring for ADI Back Supports

The width of each ADI Back Support is determined by measuring the chair width from the outside to outside of the back post tubing.



D. Example of the measurement required to select an ADI Back Support Shell

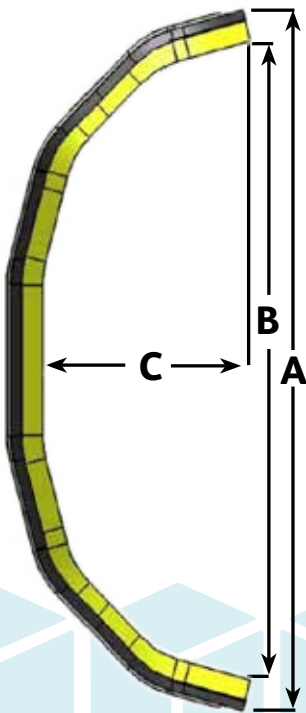
### Available Widths:

10" (25cm) to 20" (50cm).

**Note:** If you wish the back support to fit between the chair's back posts, you will need to select a shell size that is narrower than the 'A' dimensions shown, and will depend on the diameter of the back posts.

## Back Support Contour Specifications

D	10" (25.4cm)	11" (27.9cm)	12" (30.5cm)	13" (33cm)	14" (35.6cm)	15" (38 cm)	16" (40.6cm)	17" (43.2cm)	18" (45.7cm)	19" (48.3cm)	20" (50.8cm)
<b>Active Contour</b>											
A	7.5" 19cm	8.5" 21.6cm	9.5" 24cm	10.5" 26.7cm	11.4" 28.9cm	12.3" 31cm	13.5" 34.3cm	14.4" 36.5cm	15.4" 39cm	16.4" 41.6cm	17.3" 43.8cm
B	7" 17.8cm	8" 20.3cm	9" 22.9cm	10" 25.4cm	10.8" 27.3cm	11.8" 29.8cm	12.8" 32.4cm	13.8" 34.9cm	14.8" 37.5cm	15.8" 40cm	16.8" 42.5cm
C	2.1" 5.3cm	2.1" 5.3cm	2.1" 5.3cm	2.1" 5.3cm	2.3" 5.8cm	2.3" 5.8cm	2.3" 5.8cm	2.3" 5.8cm	2.3" 5.8cm	2.3" 5.8cm	2.3" 5.8cm
<b>Deep Contour</b>											
A	7.5" 19cm	8.5" 21.6cm	9.5" 24cm	10.5" 26.7cm	12.6" 32cm	13.8" 34.9cm	14.3" 36.2cm	15.3" 38.7cm	16.8" 42.5cm	17.8" 45.1cm	18.5" 47cm
B	6" 15.2cm	7" 17.8cm	8" 20.3cm	9" 22.9cm	11" 27.9cm	12" 30.5cm	13" 33cm	14" 35.6cm	15" 38cm	16" 40.6cm	17" 43.2cm
C	3.6" 9.1cm	3.6" 9.1cm	3.6" 9.1cm	3.6" 9.1cm	4.3" 10.9cm	4.3" 10.9cm	4.3" 10.9cm	4.3" 10.9cm	4.3" 10.9cm	4.3" 10.9cm	4.3" 10.9cm
<b>Extra Deep Contour</b>											
A	X	X	X	X	X	X	15.5" 39.4cm	16.5" 41.9cm	17.5" 44.5cm	18.5" 47cm	19.5" 49.5cm
B	X	X	X	X	X	X	14.8" 37.5cm	15.8" 40cm	16.8" 42.5cm	16.8" 42.5cm	17.8" 45cm
C	X	X	X	X	X	X	6" 15.2cm	6" 15.2cm	6" 15.2cm	6" 15.2cm	6" 15.2cm



# ADI Back Supports - Options Chart

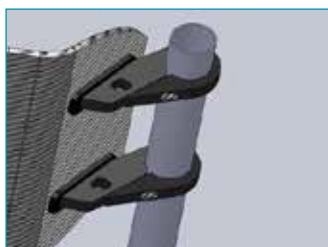
Back Support Shell Options		Aluminium Series (ALBR)					Carbon Fibre Series (CFBR)		
Back Length		Low (L)	Medium (M)	Standard (S)	Tall (T)	Extra Tall (X)	Low (L)	Medium (M)	Standard (S)
Width	Contour								
10"	Active (A)	✓	X	X	X	X	X	X	X
	Deep (D)	✓	X	X	X	X	X	X	X
11"	Active (A)	✓	X	X	X	X	X	X	X
	Deep (D)	✓	X	X	X	X	X	X	X
12"	Active (A)	✓	✓	X	X	X	X	X	X
	Deep (D)	✓	✓	X	X	X	X	X	X
13"	Active (A)	✓	✓	X	X	X	✓	✓	✓
	Deep (D)	✓	✓	X	X	X	✓	✓	✓
14"	Active (A)	✓	✓	✓	X	X	✓	✓	✓
	Deep (D)	✓	✓	✓	X	X	✓	✓	✓
15"	Active (A)	✓	✓	✓	X	X	✓	✓	✓
	Deep (D)	✓	✓	✓	X	X	✓	✓	✓
16"	Active (A)	✓	✓	✓	✓	✓	✓	✓	✓
	Deep (D)	✓	✓	✓	✓	✓	✓	✓	✓
	Extra Deep (6)	✓	✓	✓	✓	✓	X	X	X
17"	Active (A)	✓	✓	✓	✓	✓	✓	✓	✓
	Deep (D)	✓	✓	✓	✓	✓	✓	✓	✓
	Extra Deep (6)	✓	✓	✓	✓	✓	X	X	X
18"	Active (A)	✓	✓	✓	✓	✓	✓	✓	✓
	Deep (D)	✓	✓	✓	✓	✓	✓	✓	✓
	Extra Deep (6)	✓	✓	✓	✓	✓	X	X	X
19"	Active (A)	✓	✓	✓	✓	✓	✓	✓	✓
	Deep (D)	✓	✓	✓	✓	✓	X	X	X
	Extra Deep (6)	✓	✓	✓	✓	✓	X	X	X
20"	Active (A)	✓	✓	✓	✓	✓	X	X	X
	Deep (D)	✓	✓	✓	✓	✓	X	X	X
	Extra Deep (6)	✓	✓	✓	✓	✓	X	X	X

# ADI Back Supports - Mounting Options

ADI back supports are offered with a choice of mounting hardware options that mount onto multiple diameter and oval wheelchair tubing, and are designed to address the specific needs of the user, clinician, and rehab engineer.

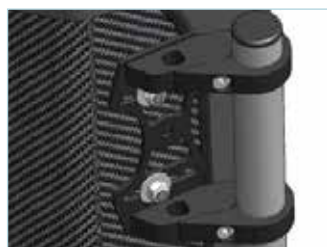
ADI backs offer +/-2.5" width adjustment, 20 degrees of total angle adjustment, with 10 degrees forward and 10 degrees backward from midline, and depth adjustability of the cushion from the rear backpost up to 6cm forwards.

**Note:** The Aluminium back supports cannot be mounted with the Fixed ELITE option.



## Fixed ELITE

The Fixed ELITE option provides stationary mounting with fixed positioning for the Carbon Fibre back supports, and is designed to maximise user energy conservation. It is lightweight and has no moving parts.



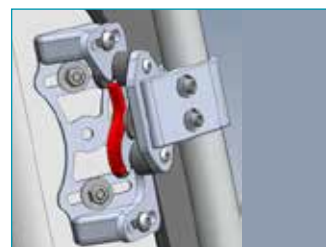
## Width Adjustable ELITE

Similar in design to the Fixed ELITE, the Width Adjustable ELITE comes with the added benefit of width adjustment, for easier mounting onto rigid chairs, as these chairs often do not have standardised widths.



## 2-point PRO

The 2-point PRO mounting hardware is a stationary mounting option which offers angle, depth, and width adjustment for manual, rigid, and power chair users.



## Quick Release

Quick Release mounting hardware is an option which offers angle, depth, and width adjustment, but with the added benefit of a quick release mechanism.

## Durability and Crashworthiness Tests

ADI back supports have exceeded 35,000 cycles of durability testing without failure. An ISO specified contour loading pad was used during ADI back support testing, and the contour pad was fabricated as per ISO standards.

Crashworthiness tests of ADI back supports were conducted in accordance with ISO 16840-4. The results of this testing showed that ADI back support mounting hardware installed on the ISO wheelchair base met all applicable criteria proposed in section 5.1.2 of 16840-4.

### Did you know?

ISO terminology standards describe the vertical dimension of a back support as its length. This is to avoid using the term height which indicates the distance the top of the back support is situated from the seat base, or any other reference point.

# ADI Back Supports - Order Code Builder

**Please Note:** Check on the chart (p.21) as to whether your choice of width and length is available as an option

## Step 1: Select your Shell Material

Aluminium Shell Back Support Code: <b>ALBR</b>	Carbon Fibre Shell Back Support Code: <b>CFBR</b>
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## Step 2: Select the Chair Width

10" (25 cm)	11" (28 cm)	12" (30 cm)	13" (33 cm)	14" (35 cm)	15" (38 cm)	16" (40 cm)	17" (43 cm)	18" (45 cm)	19" (48 cm)	20" (50 cm)
Code: <b>10</b>	Code: <b>11</b>	Code: <b>12</b>	Code: <b>13</b>	Code: <b>14</b>	Code: <b>15</b>	Code: <b>16</b>	Code: <b>17</b>	Code: <b>18</b>	Code: <b>19</b>	Code: <b>20</b>

\*Please note: The CF range is not available for chair widths 10"-12", nor 20"

## Step 3: Select the Shell Length

Low (10"/25cm) Code: <b>L</b>	Medium (13"/33cm) Code: <b>M</b>	Standard (16"/40cm) Code: <b>S</b>	Tall (18"/45cm) Code: <b>T</b>	Extra Tall (20"/50cm) Code: <b>X</b>
----------------------------------	-------------------------------------	---------------------------------------	-----------------------------------	---

\*Please note: The Carbon Fibre Shell is not available in Tall and Extra Tall back length.

## Step 4: Select the Shell Contour

Active (64mm deep) Code: <b>A</b>	Deep (100mm deep) Code: <b>D</b>	Extra Deep (150mm deep) Code: <b>6</b>
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\*Please note: 19" - 20" Carbon Fibre is not available in Deep and Extra Deep Contour

## Step 5: Select the Mounting Hardware

Fixed ELITE Code: <b>F</b>	Width Adjustable ELITE Code: <b>W</b>	2-point PRO Code: <b>2</b>	Quick Release Code: <b>R</b>
-------------------------------	--	-------------------------------	---------------------------------

\*Please note: Fixed ELITE mounting brackets only available with Carbon Fibre backs

**Your Complete Code: is a combination of one choice from each step**

Step: **1** - **2** - **3** - **4** - **5** Example: **ALBR10LAR**

Example: **ALBR10LAR** Aluminium Shell 10" Wheelchair Low Active, Contour, Quick Release

## Inches to Centimetre conversion

In	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
cm	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0

# ADI Back Supports - Laterals and accessories



ADI offers laterals that can be attached to ADI back supports. There are two options of laterals available: Fixed laterals and Swing-out laterals. Fixed laterals provide fixed support to clients in the thoracic region or act as a rest, while Swing-out laterals prove useful for easy transfers. Pads are available in all sizes for both Fixed and Swing-out options.



## Stationery Laterals (includes pad)

Order Code	Pad Size	Description
LATADJSTSM	3x3"	Small Lateral
LATADJSTMD	3x4"	Medium Lateral
LATADJSTLG	4.5x4.5"	Large Lateral
LATADJSTXLG	4x6"	X-Large Lateral

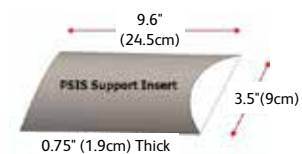


## Swing-Out Laterals (includes pad)

Order code	Pad Size	Description
LATADJSWSM	3x3"	Small Lateral
LATADJSWMD	3x4"	Medium Lateral
LATADJSWLG	4.5x4.5"	Large Lateral
LATADJSWXLG	4x6"	X-Large Lateral

## Back Support Accessories

Order Code	Description
BR6000	PSIS Support Insert, 9.5x3.5x1" each
BR6001	Loop Carry Handle Assembly, complete
BR6002	Privacy Flap - fits back support widths 12 - 14"
BR6003	Privacy Flap - fits back support widths 15 - 17"
BR6004	Privacy Flap - fits back support widths 18 - 20"





The Ultralightweight  
Paediatric Back Support  
and the Newback



# Stealth Back Supports

Stealth has over 10 years' experience of innovating in the rehab market to develop products which make day-to-day life better for the user, providing comfort, positioning, and functionality. Stealth has launched two new ranges of back supports keeping the user in mind. This section has detailed information on the Stealth ranges with an easy to understand code builder, to help you choose and order the right back support.

## Ultralightweight Paediatric Back Support

The Ultra Lightweight Paediatric back support is specially designed for kids, with sizes ranging from 8" width and length up to 12" width and length. Its striking feature is the thin aluminium back shell which makes it ultralightweight, making it an excellent back support for self propellers.

The Ultralightweight Paediatric (TFBN) back support allows for optimal fitting through a flexible shell structure. The lightweight aluminium back plate has additional thoracic lateral attachments with the option of width adjustment to give the right fit and maintain proper positioning of the trunk and pelvis. The hardware available with this back is durable and easily accessible.

The shell is designed for thoracic growth, which provides for a 2" width adjustability, allowing it to grow with the child. The paediatric back support can be mounted with a single point centre clamp, or in a two point style with the help of a Rigidiser bar.

This back support also comes with a ½" Sunmate (memory foam) over a ½" HR3 (High Resiliency 3) foam as its standard cushion. The cushion and cover are easily removable and washable.

Stealth has also designed a lightweight head support especially for the Paediatric back support, thus maintaining its ultralightweight benefits. Note: Because of the weight of the materials used in designing the back support, only this head support can be used with the Paediatric back support, and vice versa.

**BES has produced an easy step-by-step selection process to help you order a complete paediatric back support package (see next page)**



Stealth Paediatric Back Support Shell



Stealth Paediatric Back Support

### Inches to Centimetres conversion

In	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
cm	2.5	5.0	7.6	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0

# Stealth - Build Your Own Ultralightweight Paediatric Back Support



## Step 1: Select your Back Support (includes removable standard foams and cover)

Back Type	8" x 8" (w x l)	8" x 10" (w x l)	10" x 10" (w x l)	10" x 12" (w x l)	12" x 10" (w x l)	12" x 12" (w x l)
Fits Chair Width	10"	10"	12"	12"	14"	14"
Ultra-lightweight Paediatric	TFBN8x8	TFBN8x10	TFBN10x10	TFBN10x12	TFBN12x10	TFBN12x12

## Step 2: Select your Thoracic Hardware

TFBN4LT	4" long (LT) lateral thoracic support kit (Pair)
TFBN6LT	6" long (LT) lateral thoracic support kit (Pair)
TFBN8LT	8" long (LT) lateral thoracic support kit (Pair)
TFBN10LT	10" long (LT) lateral thoracic support kit (Pair)

TFBN-SOC



## Step 3: Select your Mounting Hardware

### Single mounting to be mounted to chairs that come with a rigidiser bar

TFBN-SOC	Single Oval Centre Mount Clamp
TFBN-S1C	Single 1" Centre Mount Clamp
TFBN-S78C	Single 7/8" Centre Mount Clamp
TFBN-S34C	Single 3/4" Centre Mount Clamp

### OR Two point mounting

TFBN-RB	Rigidiser Bar
TFBN-QRHB	Additional Quick release mounting

TFBN-RB



The Rigidiser Bar TFBN-RB can be used to mount back supports in traditional 2-point mounting. The bar attaches to the back post tubing of the wheelchair and the back support attaches to the flat area allowing for width adjustability.

## Step 4: Select your Head Support for TFBN

TFBN-HR6	6" wide Ultralightweight Head Support for TFBN
TFBN-HR8	8" wide Ultralightweight Head Support for TFBN
TFBN-HR10	10" wide Ultralightweight Head Support for TFBN

## Step 5: Select your Head Support Hardware

TFBN-HRHW	Height and depth adjustable hardware
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# Stealth Newback Back Supports

Stealth has launched their latest design of back support, which is a combination of support and great comfort - The Newback.

The Newback Series has an aluminium shell, but a greater degree of customisable options as compared with the Paediatric back support. The Newback is also available in kid's sizes, but flows into adult sizes of up to 20" width and 19" length. The Newback has a version designed to take Foam in Place (FIP) provision for those with more complex needs. BES understands the importance of positioning and has brought these back supports into the UK market for clients needing an adaptable yet durable back support.

The Newback can be customised with one to four lateral pads or wings to give extra pelvic or lateral support where needed, with trouble free adjustability. This helps in maintaining proper trunk positioning, as well as giving support to clients who need that extra bit of lateral support.

The standard hardware available with the back is a 4-point trouble-free mounting system with Drop Stops that allow the back support to stay at the needed height without movement, and track nuts to fit additional laterals to the

shell without double pair wings. The hardware is durable, easily accessible, and is hidden under the Velcro attached cover for a clean and sleek look. The standard model comes with dual layered foam, but Stealth also offers the option of adding Foam in Place (FIPS) to give additional support to targetted areas, to suit individual needs. Foam in Place is used for clients requiring moulded backs to contour to suit specific needs, and to increase the contact surface. The back covers are manufactured with high quality stitching that guarantees long lasting resiliency. The Newback comes with a standard ½" Sunmate memory foam, over a ½" HR3 foam for ultimate comfort, while maintaining the lightweight feature of the back support. A special cover 'C51' is available to accommodate the Foam in Place option. The cushions and covers are easy to install, and are removable and washable. The Newback is available in various widths and lengths to fit chair widths ranging from 11" to 20".

## Stealth Newback Range



### NB

#### Newback without wings

This is a standard back support, with no lateral wings, for clients who need comfort over support. It includes the standard ½" Sunmate and ½" HR3 cushioning, but does not include the option of Foam in Place (FIPS).



### NB5

#### Newback with bottom wings

This back support comes with the option of bottom wings for clients needing lower trunk support as well as guides to the pelvis.



### NB9

#### Newback with top and bottom wings

This back comes with the option of top and bottom wings for clients who need comfort as well as positioning and support in the pelvic and trunk regions.

### NBF

#### Newback with no wings, includes Foam in Place Kit

This range is the same as NB, but comes with the addition of a Foam in Place kit.

### NBF5

#### Newback with bottom wings, includes Foam in Place Kit

This range is same as the NB5, but comes with the addition of a Foam in Place kit.

### NBF9

#### Newback with top and bottom wings, includes Foam in Place Kit

This range is the same as, NB9 but with the addition of a Foam in Place kit.

# Stealth Newback Back Supports - Order Code Builder

**Please Note:** Check on the chart (p.30) as to whether your choice of width and length is available as an option

Step 1: Select your NEWBACK Type					
No wings	With bottom wings	With top + bottom wings	No wings, includes Foam in Place (FIPS)	With bottom wings, includes Foam in Place (FIPS)	With top + bottom wings includes Foam in Place (FIPS)
Code: <b>NB</b>	Code: <b>NB5</b>	Code: <b>NB9</b>	Code: <b>NBF</b>	Code: <b>NBF5</b>	Code: <b>NBF9</b>

Step 2: Select the Chair Width				
11-12"	13-14"	15-16"	17-18"	19-20"
Code: <b>11</b>	Code: <b>13</b>	Code: <b>15</b>	Code: <b>17</b>	Code: <b>19</b>

Step 3: Select the Back Length			Please Note: Tall (T) is not available in 19-20" chair widths
Standard	Tall	Extra Tall	
Code: <b>S</b>	Code: <b>T</b>	Code: <b>X</b>	

Please Note: Only 15" chair width backs are available in Extra Tall (X) option

**Your Complete Code:** Step **1** - **2** - **3**  
is a combination of one choice from each step

**Example:**

**NB9-15X**

Example NB9-15X is a Newback with both top and bottom wings to fit a 15 - 16" chair, and the back length is Extra Tall.

**To order a replacement cover for your back without FIPS:**

Code: BMD203 - **1** - **2** - **3**

**To order a replacement cover for your back with FIPS:**

Code: BMD231 - **1** - **2** - **3**

Inches to Centimetres conversion																				
In	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
cm	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0

# Stealth Newback Back Supports - Options Chart

**NB** Newback with no wings

**NBF** Newback with no wings and FIPS

**NB5** Newback with bottom wings

**NBF5** Newback with bottom wings, and FIPS

**NB9** Newback with top and bottom wings

**NBF9** Newback with top and bottom wings and FIPS

Newback Code Guide Chart												
Back type	Back Length	Chair Widths					Aluminium shell	4 point mounting hardware	Drop Stops	1/2" medium Sunmate plus 1/2" HR3 insert	Airmesh (C86) cover with tracks	Neoprene (C51) cover for FIPS
		11-12" (11)	13-14" (13)	15-16" (15)	17-18" (17)	19-20" (19)						
		Back Panel Width/Length										
NB	Std (S)	7"/12"	9"/14"	11"/16"	13"/18"	15"/20"	✓	✓	✓	✓	✓	✗
	Tall (T)	7"/14"	9"/16"	11"/18"	13"/20"	-	✓	✓	✓	✓	✓	✗
	Extra Tall (X)	-	-	11"/20"	-	-	✓	✓	✓	✓	✓	✗
NB5	Std (S)	7"/12"	9"/14"	11"/16"	13"/18"	15"/20"	✓	✓	✓	✓	✓	✗
	Tall (T)	7"/14"	9"/16"	11"/18"	13"/20"	-	✓	✓	✓	✓	✓	✗
	Extra Tall (X)	-	-	11"/20"	-	-	✓	✓	✓	✓	✓	✗
NB9	Std (S)	7"/12"	9"/14"	11"/16"	13"/18"	15"/20"	✓	✓	✓	✓	✓	✗
	Tall (T)	7"/14"	9"/16"	11"/18"	13"/20"	-	✓	✓	✓	✓	✓	✗
	Extra Tall (X)	-	-	11"/20"	-	-	✓	✓	✓	✓	✓	✗
NBF	Std (S)	7"/12"	9"/14"	11"/16"	13"/18"	15"/20"	✓	✓	✓	✓	✗	✓
	Tall (T)	7"/14"	9"/16"	11"/18"	13"/20"	-	✓	✓	✓	✓	✗	✓
	Extra Tall (X)	-	-	11"/20"	-	-	✓	✓	✓	✓	✗	✓
NBF5	Std (S)	7"/12"	9"/14"	11"/16"	13"/18"	15"/20"	✓	✓	✓	✓	✗	✓
	Tall (T)	7"/14"	9"/16"	11"/18"	13"/20"	-	✓	✓	✓	✓	✗	✓
	Extra Tall (X)	-	-	11"/20"	-	-	✓	✓	✓	✓	✗	✓
NBF9	Std (S)	7"/12"	9"/14"	11"/16"	13"/18"	15"/20"	✓	✓	✓	✓	✗	✓
	Tall (T)	7"/14"	9"/16"	11"/18"	13"/20"	-	✓	✓	✓	✓	✗	✓
	Extra Tall (X)	-	-	11"/20"	-	-	✓	✓	✓	✓	✗	✓

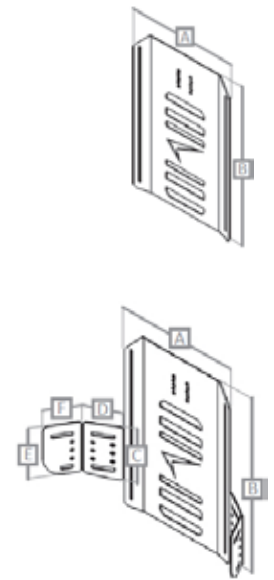
Codes Demystified		
HR3 insert	C86 Cover	C51 Cover
High Resiliency 3 standard foam	Air Mesh (used with Non-FIPS options)	Neoprene (used with FIPS options)

Please Note: Track Nuts are included to attach additional laterals to the back support

# Stealth Newback Back Supports - Measurement Guide

Newback Measurement Chart

Wheelchair Frame Width	Back Style	Width of the Back (A)	Length of the Back (B)	Inside Lateral Wing Length (C)	Inside Lateral Wing Depth (D)	Outside Lateral Wing Depth (E)	Outside Lateral Wing Depth (F)
11" - 12" 28 - 30 cm	Std	7" (17.5cm)	12" (30cm)	4.25" (10.8 cm)	2" (5.0 cm)	3.8" (9.7 cm)	3" (7.6 cm)
	Tall	7" (17.5cm)	14" (35cm)				
13" - 14" 33 - 35 cm	Std	9" (22.5 cm)	14" (35 cm)	4.65" (11.8 cm)	4" (10 cm)	4.5" (11.4 cm)	4" (10 cm)
	Tall	9" (22.5 cm)	16" (40 cm)				
15" - 16" 38 - 40 cm	Std	11" (27.5cm)	16" (40 cm)	5.25" (13.3 cm)	4" (10 cm)	5" (12.5 cm)	4" (10 cm)
	Tall	11" (27.5cm)	18" (46 cm)				
	Extra Tall	11" (27.5cm)	20" (50 cm)				
17" - 18" 43 - 45 cm	Std	14" (35 cm)	18" (46 cm)	5.75" (14.6 cm)	4" (10 cm)	5.5" (14 cm)	4" (10 cm)
	Tall	14" (35 cm)	20" (50 cm)				
19" - 20" 48 - 50 cm	Std	15" (37.5 cm)	20" (50 cm)	6.25" (15.9 cm)	4" (10 cm)	6" (15.2 cm)	4" (10 cm)



## Trouble Free Mounting Hardware

When you order a Stealth Newback, the Trouble Free Mounting Hardware is part of the assembly pack.



## Drop Stops

Drop Stops are used in conjunction with the Trouble Free Mounting hardware, to adjust the Newback to the right height for the user.



## Foam In Place Solution (FIPS)

Foam in Place is the immediate answer to a client's need of a moulded back. A mixture is poured into the back support while the client is seated, to create an instant foam mould around the client's back without having to wait for a pre-prepared, pre-measured moulded back support. FIPS provides the comfort and support of a moulded back in minutes.

# Stealth Laterals and Accessories

Stealth lauched their laterals as ‘The World’s Best Laterals’, coded TWBL, and no-one has contested that claim to date!

## The anatomy of a Stealth Lateral

Stealth Laterals are made up of a combination of mounting brackets that mount onto the wheelchair to hold the lateral in place, lateral hardware, and a mount to support the pad. To work with different types of wheelchairs, Stealth offers a range of mounting options, lateral mounts, and lateral hardware. Stealth Laterals can be added to the Newback as well as to most other back supports to provide extra thoracic support where needed. Swing away versions all come with a red identifier button to operate the release. Stealth laterals are designed to swing away at the back support posts of the wheelchair to allow maximum space for the occupant to transfer in and out of the seat.

**Lateral Hardware:** The TWBTL/ TWBSTL styles are designed to be thin and non-obstructive.

**Lateral Hardware - Link version (TWBNL/TWBL):** Stealth Laterals are made out of strong and durable metal which is simple to mount. The lateral hardware is attached to a lateral pad mount which holds the pads in place. These laterals are available in Niño sizes (paediatric) (TWBNL) or adult sizes (TWBL). Pads are available in either gel or foam which are well cushioned, hence are comfortable and soft against the skin. Links can be added or removed to increase the length and flexibility of mounting a lateral. The SWINK link can be mounted next to the pad for the chair occupant to swing away the pads alone. The TWBNL and TWBL versions allow the laterals to swing all the way back, and lock at 180 degree from the seated position, to avoid the laterals getting caught in doorways etc.

**Mounting Hardware Cane Mounts:** Cane mount clamps are mounting hardware for laterals supports which fit around the tubing of a wheelchair and come in various diameters depending on the size of the tubing. They help fix the laterals to the right point where support is needed.

**Mounting Hardware Track Mounts:** The laterals can be mounted to solid back systems onto tracks that allow fine adjustments of the height at which the laterals are mounted. Where seating systems already have built in tracks (e.g. Permobil) Stealth has lateral mounting systems for these tracks.



TWBL-HW-L



TWBTL



TWBSTL



LTHW-502



LTHW-513  
Crescent shaped for  
fixing over canvas



LTHW-519  
SWINK



LTHW-515

# Stealth Laterals and Accessories - Order Codes

**Full Surface Contact Pad Mount:** The Full Surface Contact lateral pad mount articulates and adjusts to accommodate asymmetries. It angles up to be positioned to give the right amount of full contact (not available for Niño options).



Full Surface Contact Mount

**All Seasons Lateral Hardware:** The All Seasons lateral hardware offers width adjustability. To adjust the width, needs no tools, and is quick and easy, thus can be used across the seasons to accommodate differences in width for needs of different clothing (not available for Niño options).



All Seasons Lateral Hardware  
(Only usable with track mounts)

## Step 1a: Mounting Hardware

Part Number	Description
LTNHW501	Niño Lateral Thoracic ¾" Cane Mount
LTNHW502	Niño Lateral Thoracic ⅞" Cane Mount
LTNHW500	Niño Lateral Thoracic 1" Cane Mount
LTNHW513	Niño Lateral Thoracic ¾" Crescent Cane Mount
LTNHW514	Niño Lateral Thoracic ⅞" Crescent Cane Mount
LTNHW512	Niño Lateral Thoracic 1" Crescent Cane Mount
LTHW501	Lateral Thoracic ¾" Cane Mount
LTHW502	Lateral Thoracic ⅞" Cane Mount
LTHW500	Lateral Thoracic 1" Cane Mount
LTHW513	Lateral Thoracic ¾" Crescent Cane Mount
LTHW514	Lateral Thoracic ⅞" Crescent Cane Mount
LTHW512	Lateral Thoracic 1" Crescent Cane Mount
LTHW506	Pride Synergy Cane Clamp

## Step 1b : Mounting Hardware - Tracks

Part Number	Description
LTHW515	Planar Mount With 7" Track
LTHW518-L	Permobil Track Mount, Left Side
LTHW518-R	Permobil Track Mount, Right Side

## Step 2: Lateral Hardware

Part Number	Description
TWBTL	Adjustable Thin No Link Swingaway Hardware
TWBSTL	Adjustable Thin Link Swingaway Hardware
TWBNL-HW-L	Niño Adjustable Swingaway Hardware Left Side
TWBNL-HW-R	Niño Adjustable Swingaway Hardware Right Side
TWBL-HW-L	Adjustable Swingaway Hardware Left Side
TWBL-HW-R	Adjustable Swingaway Hardware Right Side

## Step 3: Thoracic Pads

Part Number	Description
TWBNL-2x3	Niño Lateral Single Pad Only w/Neoprene Cover 2x3"
TWBNL-2x3G	Niño Lateral Single Pad Only Gel w/Neoprene Cover 2x3"
TWBNL-3x3	Niño Lateral Single Pad Only w/Neoprene Cover 3x3"
TWBNL-3x3G	Niño Lateral Single Pad Only Gel w/Neoprene Cover 3x3"
TWBNL-6x1	Niño Lateral Single Pad Only w/Neoprene Cover 6x1"
TWBNL-6x1G	Niño Lateral Single Pad Only Gel w/Neoprene Cover 3x3"
TWBL-3x5	Lateral Single Pad Only w/Neoprene Cover 3x5"
TWBL-3x5G	Lateral Single Pad Only Gel w/Neoprene Cover 4x6"
TWBL-4x6	Lateral Single Pad Only w/Neoprene Cover 4x6"
TWBL-4x6G	Lateral Single Pad Only Gel w/Neoprene Cover 4x6"

## Step 4: Additional Extras

Part Number	Description
LTHW511	Full Surface Contact Mount
LTHW504	Lateral Thoracic All Season Mount for Flat Back
LTHW509	Lateral Thoracic All Season Mount for Curved Back
LTHW519	Dual Position Flip Away Modification (SWINK)
LNHW-120	Niño Lateral Link Assembly 2¼" Long
LHW-129	Lateral Link Assembly 2¼" Long

# Head to Toe Positioning Solutions

BES Rehab Ltd is known as the provider of top quality equipment, and has always understood the importance of postural management. We appreciate that every client is different, hence the need for equipment is never the same from person to person. We do not treat equipment as commodities. Rather we aim to bring together best of class products from market-leading brands from around the world, which not only promote postural support, but also provide comfort, to make sure that individuals get the equipment they are looking for to suit their needs. We now have a portfolio of products that go from kids sizes all the way to extra large adult sizes.



## Head Supports

If you are looking for head supports to cater for clients with different degrees of head control and head positioning needs, BES offers a range of solutions in the form of supports and support accessories. We also offer assessments and initial fitting for your clients.



## Upper Body Positioning

Resting against a comfortable back is normally a user's first priority. It is also important to provide posterior and lateral support to clients with poor trunk control. Weak trunk muscles could mean that an individual trying to reach, for example to fulfil normal daily activities, might not be able to return to a neutral balanced position. Dynamic secondary supports such as harnesses are valuable aids to assist this movement, providing a certain degree of elasticity that helps the torso to return to a neutral position. For clients that require upper body support and positioning, BES offers ranges of back supports, laterals, shoulder harnesses, and chest straps that cater to most needs.



## Pelvic Positioning

Sitting is an activity which should ideally allow for dynamic and smooth movement of the pelvis, excellent forward and lateral reach, and pelvic stability in order to maximise functionality. It is very important to position and support the pelvic region correctly, as a badly positioned pelvis can lead to the development of spinal deformities, and vice versa. BES offers a range of secondary support devices for better pelvic positioning, including lightweight seat cushions, laterals, the dynamic HipGrip®, and the Evoflex™, the ultimate evolution in pelvic positioning. It is time to move on from just Pelvic Stabilisation to Pelvic Positioning, and understand that seating is all about dynamic movement and not restraints.



## Lower Body Positioning

It is essential to position the lower body correctly, as the lower body affects the positioning of the pelvis, balance of the body, and freedom of movement of the upper body. Hence it is vital to have the right positioning tools for the lower body. BES provides lower body supports and positioning devices such as knee supports, footplates, Ankle Huggers – for foot positioning, medial supports such as abductors and adductors, and calf straps.

So if you have clients who need head to toe seating equipment, contact BES and we will help out with the assessment process and recommend the appropriate solution catered to your clients' needs.

# Back Support Solutions



## Postural Challenges and Seating Solutions Article

**In this article we look at what a seating system should provide, and give a guide to specific clinical challenges and seating solutions.**

"The back of a seating system is arguably the most important part of the seating system, but often receives the least attention. Maybe this is because for too long we have referred to it as a Back Rest. That's just been a cop out: in most cases it's a back support. Back supports need to accommodate a lot of individual variables. First, we need to understand what these variables are and what the needs are. Only then can we discuss how back supports can accommodate specific issues. This involves an assessment, and this is often not done."

# Head Support Solutions



Even though pelvic stability is usually considered to be the most important foundation of good posture, it is the head that needs to be positioned correctly for most functional purposes. Thus, positioning the head in the right place is not just an important aspect of good posture, it is also essential for carrying out daily functional activities including eye contact, social interaction, spatial awareness, balance, swallowing, digestion, breathing etc. which can each be affected if the head is not positioned correctly.

BES Rehab offers a choice of head supports depending on the client's degree of head control and positioning needs. We also offer accessories for clients who need support to keep their head held up in position or to bring the head into midline. Our team can assist with any assessment necessary and recommend the appropriate solution. To know more about our head supports and head support accessories range contact BES.

# BES Seating Service

BES Rehab understands that every client has different positioning needs. Choosing a seating system is a complex task, but sourcing a seating system with appropriate and relevant equipment from one supplier can be a challenge. BES Rehab has made this EASY for you. Not only can we help you with assessing your client, but we also provide a complete solution under one roof, hence you do not need to look elsewhere. BES brings to you a Seating Service with all the equipment needed from Head to Toe, covering tissue integrity, positioning, posture, and support needs, from a range of market-leading brands.



## What does our Seating Service offer?

Our Seating Service offers the ease of buying all the equipment you need for different clients, from one place. BES has been established as a distributor of market leading brands such as Bodypoint, Stealth, Varilite, and ADI. The Seating Service gives you the opportunity to buy secondary supports for the head, back, torso, seat, pelvis, thigh, knee, and lower extremities from these brands, giving you the assurance of quality for your clients.

As a part of our Seating service, a member of our Seating Division will support you through the assessment process, list the products needed for your client, and with the help of our Customer Service team, make sure these products get to you quickly.

## BES Mobile Phone and Tablet Mounts

We not only provide products from Head to Toe, we also provide daily living accessories that will enhance your day-to-day activities, such as tablet and phone mounts. Tablets and mobile devices are used by wheelchair users as communication and learning tools, as well as to stay connected. To be able to use these devices it is important to have a mounting system that makes them accessible. Stealth has designed a range of mounting systems for wheelchair users, enabling them to use their tablets and mobile devices on the go with a swing away system for easy transfers.





# Ditch the Jerky

**Become a Smooth Operator with Stealth I-Drive**

I-Drive is the most advanced wheelchair drive control system in the world. The I-Drive can be configured in conjunction with any secondary support device allowing YOU to take SMOOTH control of your wheelchair. What makes the I-Drive advanced is the technology engineered into it as well as its compatibility with a wide range of positioning and secondary supports.

## Bodypoint® Pocket Booklet



The entire Bodypoint® ISO 16840-3 tested range of body-positioning and support hardware is included in this booklet, including accessories, fittings and mounts to make sure you have

everything you need to install and enjoy your equipment. All codes and prices are displayed in a easy-to-read table format with product photos and size information to make ordering simpler than ever.

## Stealth i2i Pocket Booklet



The i2i is a specialist neck positioning and support product, which can be tailor-made to suit your needs. To make sure that you order the right i2i, BES Rehab and Stealth Products have created our new and

improved i2i pocket booklet, which contains measurement guides, diagrams, code-building tables, price guides and everything else you could need to order your custom i2i head positioning system.

## Shear Comfort" Pocket Booklet



BES Rehab Ltd presents a range of footwear and skin care products made from certified medical sheepskin. This is made from Merino-Cross wool for advanced pressure-relief, microclimate control and

superior comfort, for clients at risk of developing pressure ulcers. The Shear Comfort™ pocket booklet brings together all product codes and prices for this range of wool products.

## Backs Pocket Booklet



This booklet provides a buyer's guide to the products in this catalogue, with order codes and prices. This booklet includes a step-by-step 'Build your own back' guide with prices and codes to help order the right back supports.

## Terms and Conditions

### Customer Service

BES Rehab Ltd  
T: 0845 1300 237 / +44 (0) 0117 666 761  
E: info@besrehab.net

### Payment Information

We accept payment by Cheque, Visa, MasterCard, or Debit Card, or payment over the Internet from our website.

### Claims

Invoices are despatched at the same time as the goods. All claims for non-receipt are to be made within seven days of invoice date. If proof of delivery may be required this needs to be stated at the time of ordering, and there may be an additional P&P charge for this.

### Terms

Please note that all prices are quoted exclusive of:

- Carriage
- VAT
- Consultancy charges
- Fitting charges

**When ordering directly from BES Rehab Ltd, please add £10.00+VAT per order, to cover postage and packaging.**

**Prices are subject to change without notice. Call out charges of £150+VAT will be charged for a visit or consultancy.**

### Returns

Customers must contact BES Rehab Ltd within 30 days of the purchase date for a return authorisation number. All returns are subject to a 15% restocking fee, plus applicable freight charges.

### Past Due Accounts

Past due invoices will incur finance charges of 10% late payment surcharge and interest of 3% per month or part of month.

### Warranties

All hardware items manufactured by Stealth carry 5 years warranty, all headrests/head supports carry 6 months warranty. All Varilite products carry a 2 year warranty against manufacturers defects excluding covers which carry 1 year warranty. All ADI products have 1 year warranty.

### Limitations on Warranties

The warranties described herein do not extend to products that have been subject to misuse,

accident, or tampering, nor to products that have been modified in any way other than that specifically described in the product instructions.

The foregoing warranties are in lieu of all other warranties expressed or implied, including without limitation, implied warranties of merchantability and fitness for a particular purpose.

In no event shall BES Rehab Ltd be liable for any special, indirect, incidental or consequential losses or damages resulting from the use of the product, including without limitation, loss of anticipated profits, even if BES Rehab Ltd shall have been advised of the possibility of such potential loss or damage. BES Rehab Ltd shall not be liable for any loss or damage caused by delay in furnishing product.

BES Rehab Ltd does not authorize any distributor, dealer, agent, sales person or any third party to change the terms or coverage of this warranty, and any such change shall be null and void. This warranty is non-transferable.

This warranty information is reprinted here for information purposes only and is subject to change without notice.