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# Seating & Positioning 2024



**matrix**<sup>®</sup>  
SEATING SERIES

**Flo-tech**<sup>®</sup>

**Propad**<sup>®</sup>

We have seating covered



## Essential cushions

|  |     |
|--|-----|
| <i>Invacare</i> <b>Essential Basic &amp; Low Profile</b> | 5-6 |
| <i>Invacare</i> <b>Essential Visco</b>                   | 7-8 |

## Propad cushions

|   |       |
|---|-------|
| <i>Invacare</i> <b>Propad Low Profile</b> | 9-10  |
| <i>Invacare</i> <b>Propad Original</b>    | 11-12 |
| <i>Invacare</i> <b>Propad Premier</b>     | 13-14 |
| <i>Invacare</i> <b>Propad Revolve</b>     | 15-20 |

## Matrx Flo-tech cushions

|   |       |
|---|-------|
| <i>Invacare</i> <b>Matrx Flo-tech Lite</b>            | 21-22 |
| <i>Invacare</i> <b>Matrx Flo-tech Lite Visco</b>      | 23-24 |
| <i>Invacare</i> <b>Matrx Flo-tech Contour</b>         | 25-26 |
| <i>Invacare</i> <b>Matrx Flo-tech Contour Visco</b>   | 27-28 |
| <i>Invacare</i> <b>Matrx Flo-tech Contour Lo-Back</b> | 29-30 |
| <i>Invacare</i> <b>Matrx Flo-tech Plus</b>            | 31-32 |
| <i>Invacare</i> <b>Matrx Flo-tech Image</b>           | 33-34 |
| <i>Invacare</i> <b>Matrx Flo-tech Solution</b>        | 35-36 |
| <i>Invacare</i> <b>Matrx Flo-tech Solution Xtra</b>   | 37-40 |
| <i>Invacare</i> <b>Matrx Libra</b>                    | 41-44 |

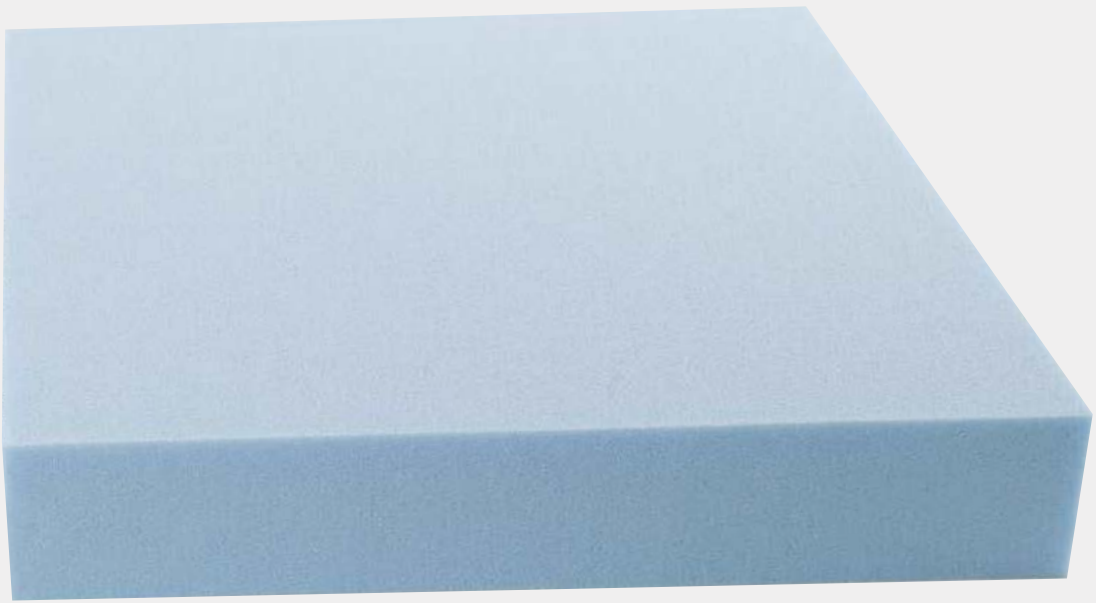
## Matrx Seating systems

|   |       |
|---|-------|
| <i>Invacare</i> <b>Matrx Mini Series</b>      | 45-48 |
| <i>Invacare</i> <b>Matrx Seating</b>          | 49-54 |
| <i>Invacare</i> <b>Matrx Back systems</b>     | 55-60 |
| <i>Invacare</i> <b>Matrx MX2</b>              | 61-64 |
| <i>Invacare</i> <b>Matrx Headrests series</b> | 65-68 |

Please refer to the Vicair or Bodypoint brochures for details of these ranges.



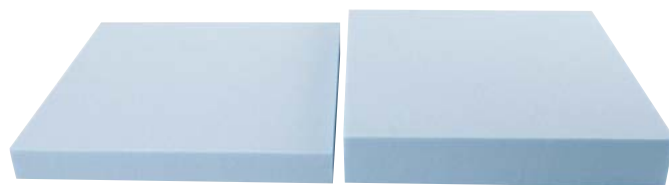
# ***Essential Basic Cushion***



High quality at a cost effective price



The *Invacare Essential Basic* Cushion is manufactured from highly resilient foam, providing a good level of comfort at a cost effective price, making this product ideal as an entry level wheelchair cushion.



Essential Low profile

Essential Basic

### Cushion Depths

The *Essential* is available in two depths, a 2" depth known as the *Essential Low Profile* and a 3" known as the *Essential Basic*.

### Features and Benefits



#### Ingress resistant cover as standard

Black smooth, high quality, ingress repellent zipped cover as standard. The fabric allows water to 'roll off', protecting the foam core from soiling. A plaiton liner is also available as an option.

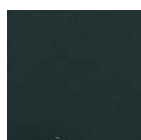
#### Available in a wide range of sizes

The Invacare Essential cushions are available in 75 sizes, ranging from 9-20" widths and 9-21" depths.

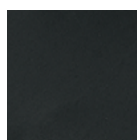
### Technical data

|                    | Various sizes       | Height       | Max. user weight                       | Total product weight | Max. cleaning temperature | Warranty | Manufactured to European Standards: BS7176-16   |
|--------------------|---------------------|--------------|--|----------------------|---------------------------|----------|---|
| <b>Low profile</b> | Wide range of sizes | 2" / 50.8 mm | Max Client Weight: 2" 16 stone (100kg) | Weight: 0.5 kg       | Cleaning: 80°             | 1 year   | Please note users who have a BMI of less than 18.5 (I.e. Users that are considered to be medically underweight) will be at a greater risk of bottoming out. |
| <b>Basic</b>       |                     | 3" / 76.2 mm | 3" 17 stone (108kg)                    | Weight: 0.8 kg       |                           | 2 years  |   |

### Cover options



Black Smooth (Standard)

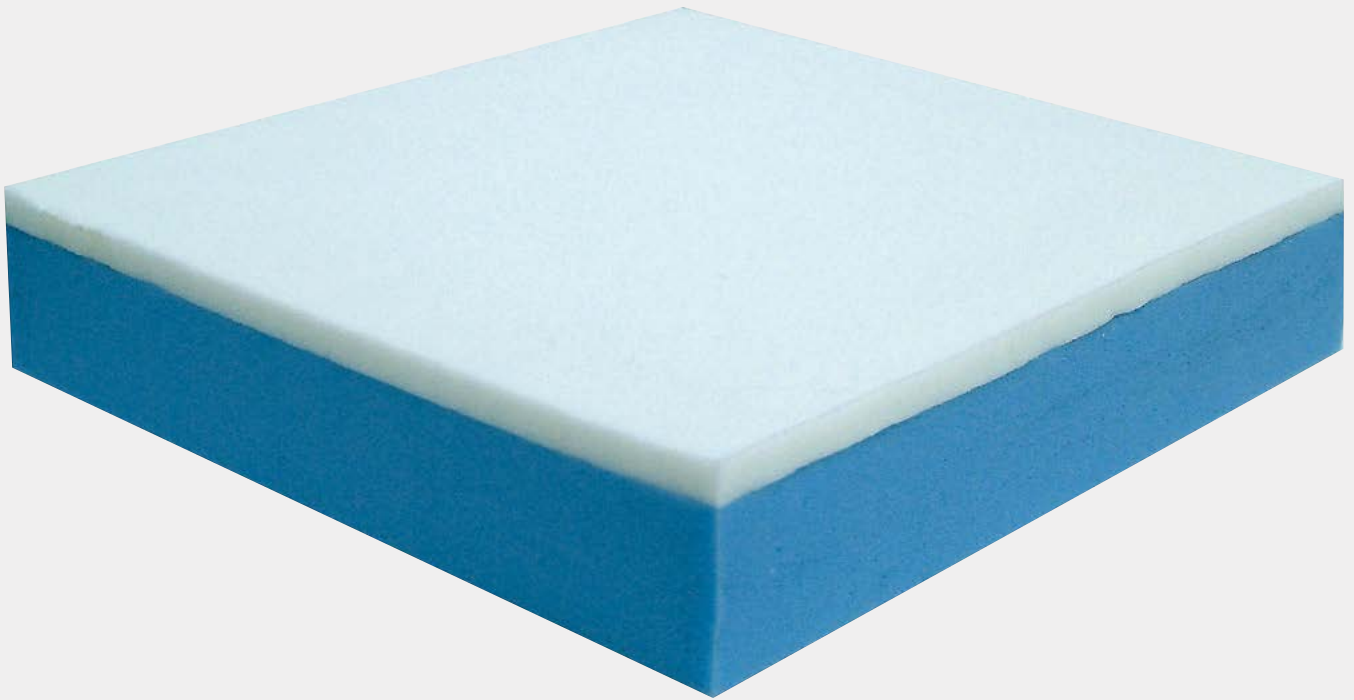


Black wipedown

|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|
|       |    | 23    | 25 | 28 | 30 | 33 | 36 | 38 | 40 | 43 | 46 | 48 | 51 |    |
|       |    | inch  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| DEPTH | cm | 23    | 9  |    |    |    |    |    |    |    |    |    |    |    |
|       | 25 | 10    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 28 | 11    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 30 | 12    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 33 | 13    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 53 | 21    |    |    |    |    |    |    |    |    |    |    |    |    |



# *Essential Visco Cushion*



Dual layered Comfort



The *Invacare Essential Visco* Cushion has a dual layer, using a combination of high density temperature sensitive visco elastic foam in conjunction with a highly resilient foam base to provide added support and longevity. The *Essential Visco* Cushion is suitable for those who require added comfort when in a wheelchair.

**Visco elastic (memory) foam top**

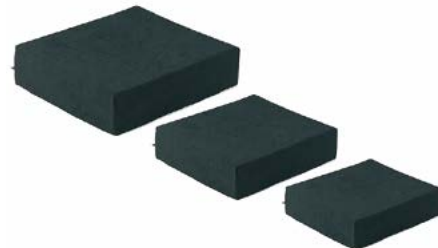
The top layer of the cushion is made from high density visco elastic (memory) foam, which conforms to the shape of the body combining exceptional comfort with a fully supported feeling.

**Robust Foam Base**

The high density foam base provides added support whilst preventing the cushion from bottoming out, ensuring longevity of the product.



**Features and Benefits**



**Ingress resistant cover as standard**

Black smooth, high quality, water repellent zipped cover as standard. The fabric allows water to 'roll off', protecting the foam core from soiling. A platilon liner is also available as an option.

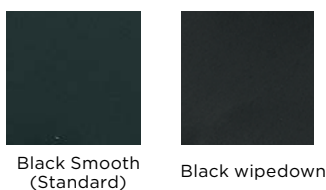
**Available in a wide range of sizes**

The Invacare Essential Visco cushion is available in 75 sizes, ranging from 9-20" widths and 9-21" depths (see size chart for details).

**Technical data**

|  |                    |                                     |                          |                               |              |   |
|--|--------------------|-------------------------------------|--------------------------|-------------------------------|--------------|---|
| <br>Various sizes                              | <br>Height         | <br>Max. user weight                | <br>Total product weight | <br>Max. cleaning temperature | <br>Warranty | Manufactured to European Standards: BS7176-16 |
| Essential Visco Cushion<br>Wide range of sizes | Height: 3"/76.2 mm | Max Client Weight: 17 stone (108kg) | Weight: 1 kg             | Cleaning: 80°                 | 2 years      |   |

**Cover options**



**WIDTH**

|       |      | 23 | 25 | 28 | 30 | 33 | 36 | 38 | 40 | 43 | 46 | 48 | 51 |
|-------|------|----|----|----|----|----|----|----|----|----|----|----|----|
|       |      | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| DEPTH | cm   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | inch |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 23   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 25   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 28   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 30   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 33   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48   |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51   |    |    |    |    |    |    |    |    |    |    |    |    |
| 53    |      |    |    |    |    |    |    |    |    |    |    |    |    |





# **Propad™ Profile Cushion**



Profiled cut-foam cushion designed with  
castellations for comfort and support



The *Invacare Propad Profile cushion* provides individuals with an option of having a lower 3" high cushion, rather than a standard height (4") original cushion. Some individuals prefer a lower profile cushion, finding it more compatible with their daily living activities.

### Castellated Foam Cushion

Each castellation delivers enhanced support and pressure area care.

### Reduces shear and friction forces

The castellations in the *Invacare Propad Profile cushion* reduce shear and friction forces on tissue.



## Features and Options



### Cover helps to prevent a build up of shear and friction forces

Cover is two-way stretch, water-resistant and vapour permeable. Cover features an anti-slip base.



### Available in a range of sizes

The *Invacare Propad Profile Cushion* is available in 116 sizes, ranging from 10-24" widths and 10-22" depths.


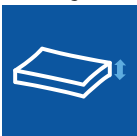


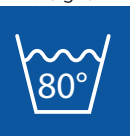



### Full length flap conceals the zip

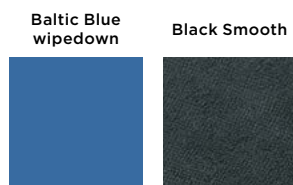
The full length flap concealing the zip reduces the potential for fluid ingress into the cushion and protects the foam core. The cover can be removed and laundered.

## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                               |   |  |  |   |   |   |  |
|-------------------------------|---|--|--|---|---|---|--|
|                               | Size range  | Height   | Total weight of product  | Max. user weight  | Max. user weight  | Max. user weight  | Manufactured to European Standards:<br>Interior Foam: BS EN 597-1 Cig, BS EN597-2 Match, BS 5852 (Crib 5)<br>Cover: BS 7175 (Crib 5) |
| <b>Propad Profile Cushion</b> | <br>A range of 116 sizes | <br>65 mm | <br>0.8kg | <br>95 kg (15 stone) | <br>80° | <br>1 year |  |

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| cm    |    | 25    | 28 | 30 | 33 | 36 | 38 | 40 | 43 | 46 | 48 | 51 | 53 | 55 | 58 | 61 |  |
| inch  |    | 10    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |  |
| DEPTH | 25 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 28 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 30 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 33 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 36 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 38 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 41 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 43 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 46 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 48 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 51 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|       | 53 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 55    |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

# Propad™ Original Cushion



Cut foam with castellations for  
comfort and support



The *Invacare Propad Original Cushion* has been designed to facilitate good pressure redistribution when used with both wheelchairs and standard armchairs. This cushion is constructed to ensure improved support and prolonged longevity.



### Designed to deliver enhanced pressure care

The *Invacare Propad Original Cushion* is made from a layer of castellated foam, each segment delivers enhanced support and pressure area care to the individual. The “keyhole” cut at the base of each castellation ensures good air circulation, reducing potential for skin maceration.

### Seating surface

Offers improved stability and postural support; castellations reduce shear and friction forces on tissue.

## Features and Options



### Cover helps prevent a build up of shear and friction forces

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base.



### Available in 116 sizes

The *Invacare Propad Original Cushion* is available in 116 sizes ranging from 10-24” width and 10-22” depths (See size chart for details).



### Full length flap conceals zip

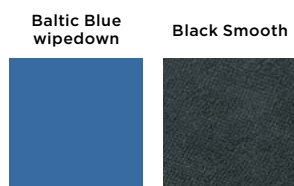
The full length flap concealing the zip reduces the potential for fluid ingress into the cushion and protects the foam core. The cover can be removed and laundered.

## Technical data

For more comprehensive pre-sales information about this product, including the product’s user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                                |                      |        |                      |                   |                           |          |   |
|--------------------------------|----------------------|--------|----------------------|-------------------|---------------------------|----------|---|
|                                | Size range           | Height | Total product weight | Max. user weight  | Max. cleaning temperature | Warranty |   |
|                                |                      |        |                      |                   |                           |          | Manufactured to European Standards:   |
| <b>Propad Original Cushion</b> | A range of 116 sizes | 102 mm | 1 kg                 | 108 kg (17 stone) | 80°                       | 1 year   | Interior Foam: BS EN 597-1 Cig, BS EN597-2 Match, BS 5852 (Crib 5)<br>Cover: BS 7175 (Crib 5) |

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| cm    |    | 25    | 28 | 30 | 33 | 36 | 38 | 40 | 43 | 46 | 48 | 51 | 53 | 55 | 58 | 61 |
| inch  |    | 10    | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| DEPTH | 25 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 28 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 30 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 33 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 53    |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 55    |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

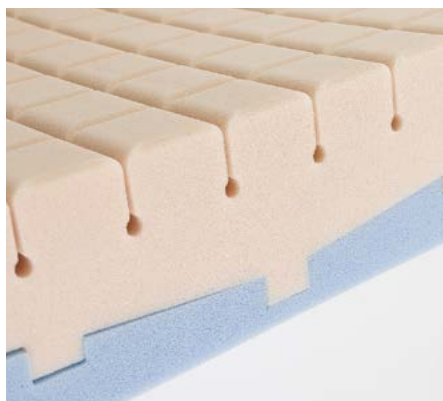
# ***Propad™ Premier Cushion***



Profiled foam cushion designed  
for comfort and support



The *Invacare Propad Premier Cushion* has been designed to facilitate good pressure reduction when used with both wheelchairs and standard armchairs. This cushion is constructed to ensure improved support and prolonged longevity.



## Features and Options



### Cover helps to prevent a build up of shear and friction forces

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base.

### Available in a range of sizes

The *Invacare Propad Premier Cushion* is available in 85 sizes ranging from 13-24" widths and 13-22" depths (See size chart for details).

### Full length flap conceals the zip

The full length flap concealing the zip reduces the potential for fluid ingress into the cushion and protects the foam core. The cover can be removed and laundered.

## Deep contoured dual-layer profiled foam cushion designed to deliver enhanced pressure care

The *Invacare Propad Premier Cushion* is a dual layer cushion. The lower layer is constructed from a firmer foam, shaped to deliver increased stability support and prevent bottoming out. The upper layer features a layer of castellated foam, each castellation delivering enhanced support and pressure area care to the individual. The "keyhole" cut at the base of each castellations ensures good air circulation, reducing the potential for skin maceration.

## Castellated seating surface

Offers improved stability and postural support; castellations reduce shear and friction forces on tissue.

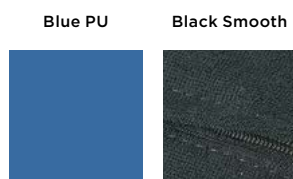
## Technical data

For more information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

Manufactured to European Standards: BS EN 597-1 Cig, BS EN 597-2 Match and BS 7175 (Crib 5)

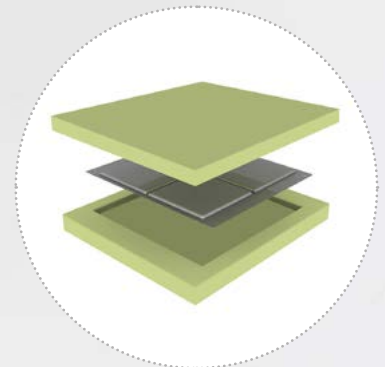
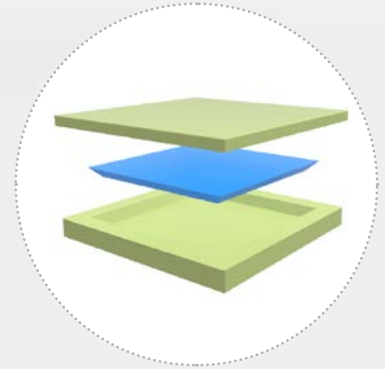
|                               | Size range | Height | Total product weight | Max. user weight                                      | Max. cleaning temperature | Warranty |
|-------------------------------|------------|--------|----------------------|---|---------------------------|----------|
| <i>Propad Premier Cushion</i> | 85 sizes   | 102 mm | 1 kg                 | 110kg (17 stone)<br>196kg (31 stone)<br>22" and above | 80°                       | 1 year   |

## Colours



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|
|       |    | cm    | 33 | 36 | 38 | 40 | 43 | 46 | 48 | 51 | 53 | 55 | 58 | 61 |
|       |    | inch  | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| DEPTH | 33 | 13    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 53 | 21    |    |    |    |    |    |    |    |    |    |    |    |    |
|       | 55 | 22    |    |    |    |    |    |    |    |    |    |    |    |    |

# Propad Revolve



Flat, high risk (V) and very high risk (Si)  
cushion that can be placed in any direction



# Introducing the **Propad Revolve** cushions

- ▶ Flat cushion
- ▶ Up to 30 stone (190kg)<sup>1</sup>
- ▶ Suitable for high to very-high risk
- ▶ Visco and Silicone options
- ▶ Sewn or welded wipedown covers
- ▶ Omnidirectional



## High Resilient moulded Foam

- ▶ The **Propad Revolve** cushions are manufactured from the finest quality materials. The same high resilient foam is used within the clinically respected **Matrx Flo-tech** range.



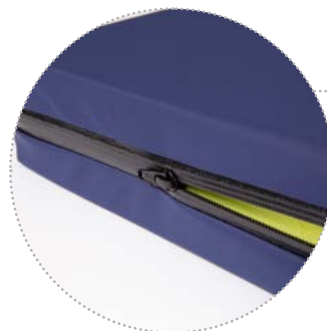
## Omnidirectional

- ▶ Versatile and efficient with a design that allows for omnidirectional use from the top, bottom, front or back. Offering increased flexibility and saving time on seating preparation.



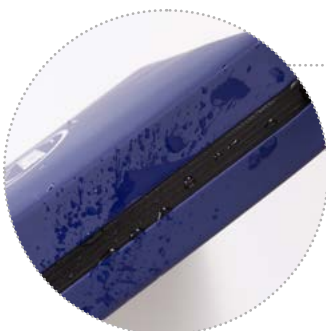
## Cover options

- ▶ Sewn: blue and black
- ▶ Welded: blue



## Intelligent fabric

- ▶ A sewn cover comes as standard which features a concealed zip and a full length flap. Completely welded seams available as an option for maximum ingress protection.



## Aquaguard zip

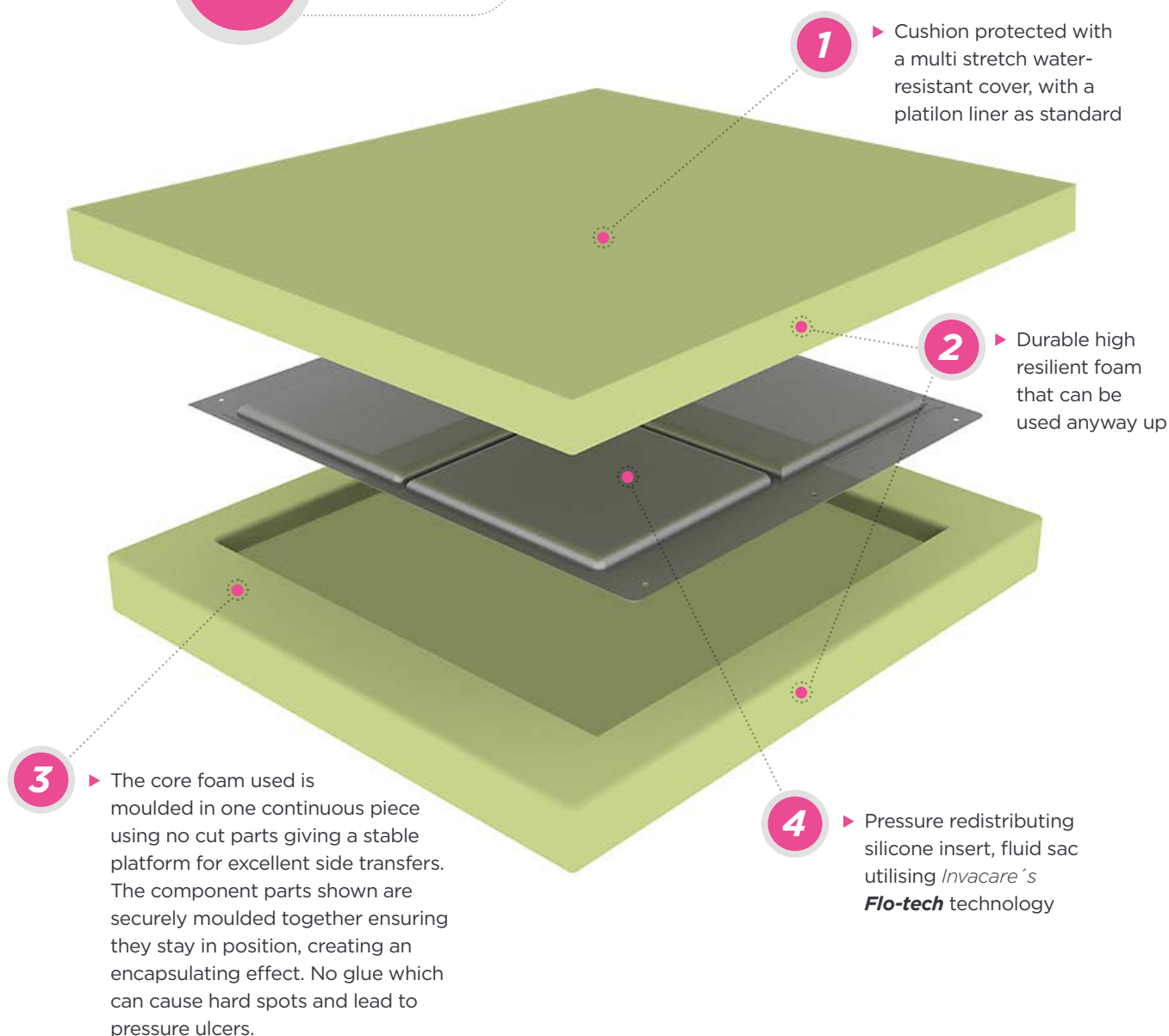
- ▶ An innovative new waterproof repellent zip is included with the welded seamed cover option. Unlike standard zipped covers, the superior Aquaguard withstands an extensive shower test and does not absorb moisture.

<sup>1</sup>. Referring to the caveat on page 5 referencing the size of cushion.



## Invacare **Propad Revolve Si** (very high risk)

### 4 EXCLUSIVE FEATURES



### Additional features

#### ▶ Fluid and foam advantages

The embedded, non-temperature sensitive silicone (Si) fluid sac envelops protruding bony prominences for superior skin protection and shear management.

#### ▶ High resilient foam

Top quality moulded HR-foam provides high-level immersion for excellent pressure redistribution.

## Invacare **Propad Revolve V** (high risk)

5

**EXCLUSIVE  
FEATURES**

1

▶ Lightweight comfortable foam that gently moulds to patient shape, providing excellent comfort and pressure redistributing properties

2

▶ Visco Elastic insert that provides excellent immersion

3

▶ Durable high resilient foam that can be used anyway up

4

▶ Cushion protected with a multi stretch water-resistant cover, with an optional platilon liner

5

▶ One-piece moulded design is excellent for side transfers

### Additional features

▶ **Visco-elastic inner layer**

The **Propad Revolve V** combines an outer-layer of durable moulded high resilient foam with a viscoelastic foam inner layer in a lightweight package.

▶ **Design features**

The angled base design ensures seamless transition while the visco layer provides high level immersion and pressure redistribution and stabilization.

## Technical data ▼

For more information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)



Height ▼



Total product weight ▼



Max. user weight ▼

|                          | Height ▼ | Total product weight ▼ | Max. user weight ▼   |
|--------------------------|----------|------------------------|--|
| <b>Propad Revolve Si</b> | 7,5 cm   | 2.75 kg                | 36cm to 41cm - 100kg<br>43cm to 51cm - 125kg up to 159kg<br>56cm to 61cm - 190kg |
| <b>Propad Revolve V</b>  | 7,5 cm   | 2 kg                   | 36cm to 41cm - 100kg<br>43cm to 51cm - 125kg to 159kg<br>56cm to 61cm - 190kg    |



Max. cleaning temperature ▼



Materials used ▼



Warranty ▼

|                          | Max. cleaning temperature ▼ | Materials used ▼ | Warranty ▼ |
|--------------------------|-----------------------------|------------------|------------|
| <b>Propad Revolve Si</b> | 80°C                        | Foam, Fluid      | 3 years    |
| <b>Propad Revolve V</b>  | 80°C                        | Foam, Visco      | 3 years    |

*1. Maximum user weight limits are set provided that the cushion selected is of appropriate width and depth for the intended user/s.*

## Cushion Sizes ▼

|       |      | Width |    |    |    |    |    |    |
|-------|------|-------|----|----|----|----|----|----|
|       |      | 36    | 38 | 41 | 43 | 46 | 48 | 51 |
| Depth | cm   |       |    |    |    |    |    |    |
|       | inch | 14    | 15 | 16 | 17 | 18 | 19 | 20 |
|       | 36   | ■     | ■  | ■  |    |    |    |    |
|       | 38   | ■     | ■  | ■  |    |    |    |    |
|       | 41   | ■     | ■  | ■  |    | ■  |    |    |
|       | 43   |       |    |    | ■  | ■  | ■  |    |
|       | 46   |       |    | ■  |    | ■  |    | ■  |
| 51    |      |       |    |    |    |    | ■  |    |

## Testimonial ▼

---

### **Propad Revolve Si Patient Field Evaluation**

*After a three month 20 patient field trial, we added the Invacare Propad Revolve Si to our range of Very High Risk cushion stock. Clinically, the product has proved to work well and feedback received from end users has been positive. In addition to this and as a Service always looking to save money, we have enjoyed a significant cost saving when comparing the Propad Revolve Si to the cushion that it replaced.*

*We utilise the BodiTrac pressure mapping system for the more challenging of clients who have history of tissue integrity issues or who currently have skin breakdown. Often this client group need the everyday practicality and ease of flat cushion but also require the appropriate level of risk protection, hence the Propad Revolve.*

*As a Service we adopt the Braden Scale for prediction of pressure sore risk and have utilised the Propad Revolve Si for our clients who class as Very High Risk (VHR) and the Propad Revolve V for patients who are assessed as High Risk (HR).*

Braden Scale is as follows:

- ▶ Low Risk – Score 14,15,16
- ▶ Medium Risk – 11,12,13
- ▶ High Risk – 8,9,10
- ▶ Very High Risk – 6,7

### **East Suffolk & North Essex NHS Foundation Trust – Management Guidelines**

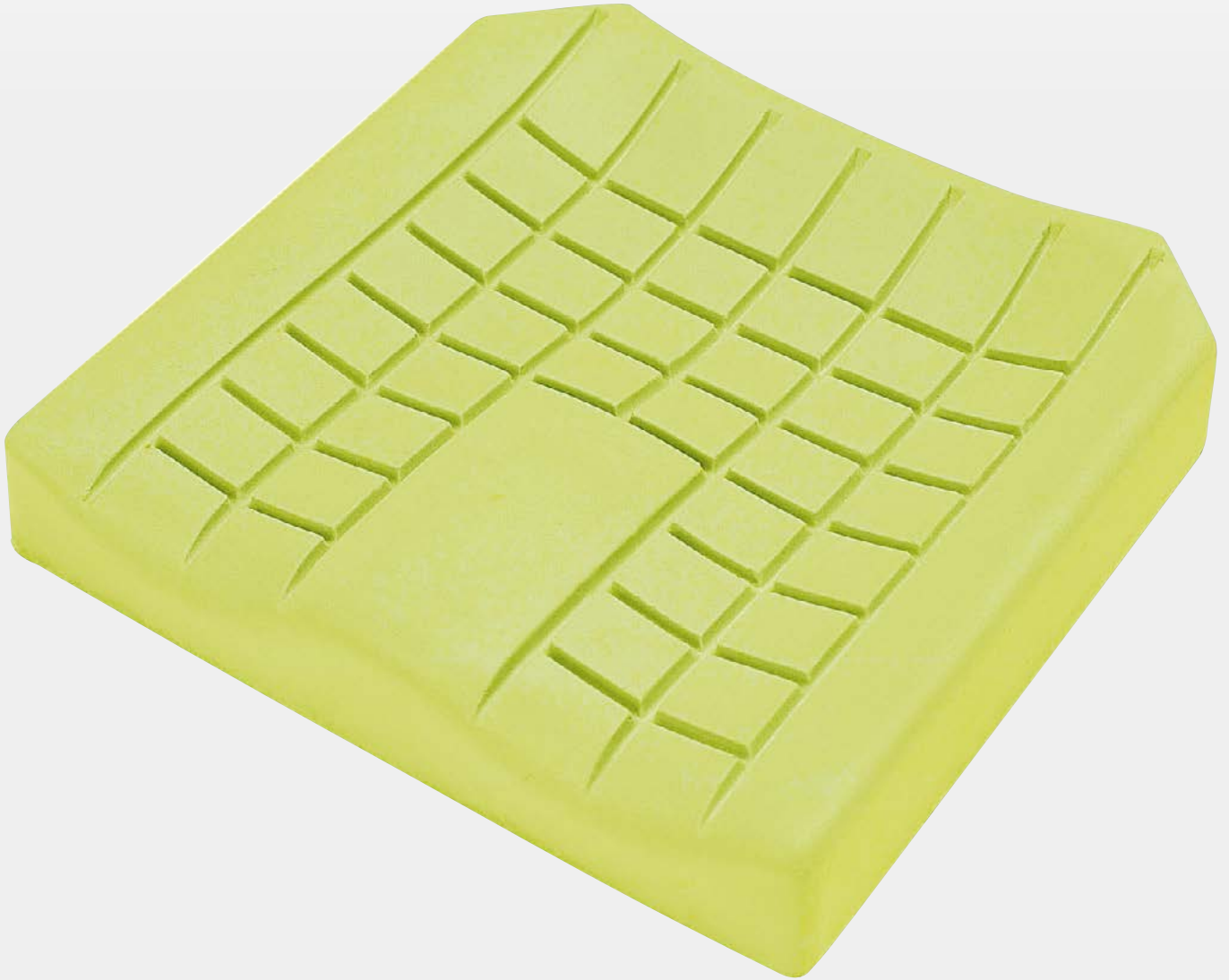
Tracy Freeman

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**Clinical Lead for Community Equipment & North East Essex Wheelchair Service  
East Suffolk and North Essex NHS Foundation Trust**

**matrix**<sup>®</sup>  
SEATING SERIES

# Flo-tech™ Lite



Slimline contoured cushion  
affording exceptional comfort and  
improved posture



The *Invacare* **Matrx Flo-tech Lite** cushion is a slimline contoured cushion ideally suited for people at low risk of developing pressure ulcers and for comfort purposes only. The contoured seating surface offers improved stability and postural support. With sizes starting from 25 x 25 cm (10 inches), the **Matrx Flo-tech Lite** cushion is particularly suited to paediatric clients.

## Features and Options



### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle for easy transportation.



### Available in 63 sizes

The *Invacare* **Matrx Flo-tech Lite** is available in a range of 63 sizes, from 10-20" width and 10-21" depths. (See size chart for details)



### Integral sag rigidizer option

Option to compensate the sag in wheelchair seats, and ensure the cushion is correctly presented.



### Ultra-fresh™ added to all cushions for antimicrobial and odour protection

Antimicrobial treatment has been added to all **Flo-tech** foam to help make it resistant to the growth of odour causing bacteria helps provide longer lasting freshness.

### Slimline foam base made from high quality resilient, moulded foam

The high quality resilient foam is manufactured using a unique formula which offers high levels of pressure redistribution and improves product longevity. Moulding allows the **Matrx Flo-tech Lite** cushion to provide a 3D form, which cannot be emulated in cut foam. The pommel at the front of the cushion ensures femurs are in a midline position for good posture and allows air to circulate.

### Contoured seating surface

Offers improved stability and postural support. Also delivers a greater degree of weight distribution compared to that of a flat surface. The castellations of the cushion allow slight movement which in turn reduces shear and friction forces.

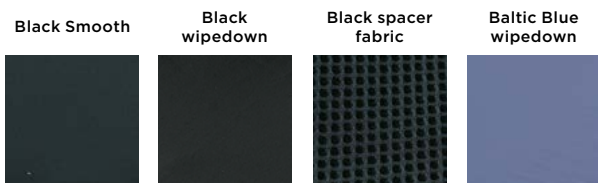
## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|  |                            |   |  |   |                                |  |
|--|----------------------------|---|--|---|--------------------------------|--|
| <p>Various sizes</p> <p><b>Matrx Flo-tech Lite</b><br/>A range of 63 sizes</p> | <p>Height</p> <p>78 mm</p> | <p>Total product weight</p> <p>1.5 kg</p> | <p>Max. user weight<sup>1</sup></p> <p>127 kg<br/>(20 stone)</p> | <p>Max. cleaning temperature</p> <p>80°</p> | <p>Warranty</p> <p>3 years</p> | <p>Manufactured to European Standards:<br/>BS EN 1021-1 Cig, BS EN 1021-2 Match and BS 7176 (Crib 5)</p> |
|--|----------------------------|---|--|---|--------------------------------|--|

1. Guide maximum user weight limits are set assuming that the cushion selected is of appropriate width and depth for the intended user/s.

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|
|       |    | 25    | 28 | 30 | 33 | 36 | 38 | 40 | 43 | 46 | 48 | 51 |    |
|       |    | inch  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| DEPTH | 25 | 10    |    |    |    |    |    |    |    |    |    |    |    |
|       | 28 | 11    |    |    |    |    |    |    |    |    |    |    |    |
|       | 30 | 12    |    |    |    |    |    |    |    |    |    |    |    |
|       | 33 | 13    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |    |    |
|       | 53 | 21    |    |    |    |    |    |    |    |    |    |    |    |

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SEATING SERIES

# **Flo-tech™ Lite Visco**



Low profile visco elastic memory foam  
cushion offering exceptional comfort



The Invacare **Matrix Flo-tech Lite Visco** cushion is made of high-density visco elastic foam, allowing it to conform to the individual's shape. This affords exceptional levels of comfort and increases and redistributes pressure. This low profile cushion format is ideal for both static chairs and wheelchair use, facilitating side transfers.

### Low memory foam designed to maximise body contact area

The visco-elastic foam conforms to the individual's body, maximising the contact area, optimising pressure distribution and delivering exceptional levels of comfort.



### Features and Options



#### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle for easy transportation.



#### Available in 64 sizes

The Invacare **Matrix Flo-tech Lite Visco** is available in a range of 64 sizes, from 10-20" widths and 10-21" depths. (See size chart for details).



#### Three foam densities available







Available in three densities to accommodate a range of client weights – Soft (up to 32 kg), Medium (up to 51 kg) and Firm (up to 100 kg).

### Contoured seating surface withommel and side support

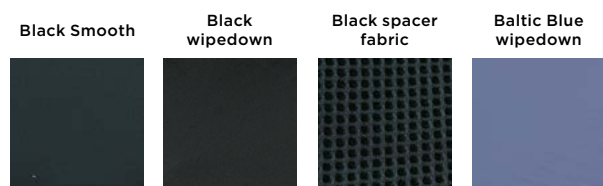
Offers mild lateral support and pelvic stability to enhance the individual's posture.

### Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

| Various sizes   | Height  | Total product weight  | Max. user weight <sup>1</sup>   | Max. cleaning temperature  | Warranty  |   |
|---|---|---|---|--|---|---|
|  |  |  |  |  |  | Manufactured to European Standards:<br>Interior Foam: BS EN 1021-1, BS EN 1021-2,<br>BS 5852: 1982 Crib 5                                 |
| Up to 64 sizes  | 78 mm   | 1.26 kg   | Soft: 32kg (5 stone)<br>Medium: 51kg (8 stone)<br>Firm: 100kg (16 stone)            | 80°  | 3 years   | 1. Guide maximum user weight limits are set assuming that the cushion selected is of appropriate width and depth for the intended user/s. |

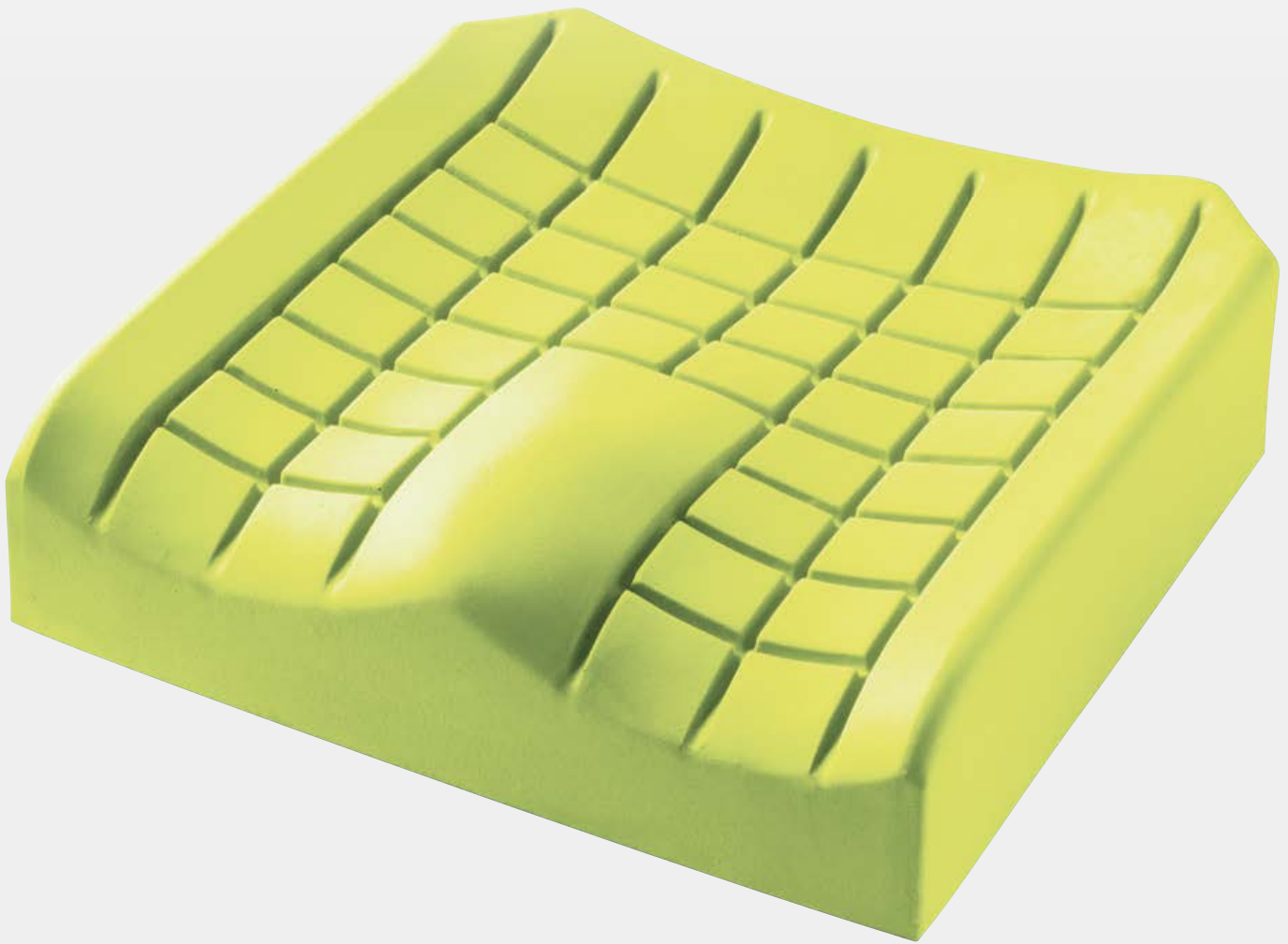
### Cover options





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SEATING SERIES

# Flo-tech™ Contour



Contoured moulded foam for  
improved posture



The surface of the Invacare **Matrix Flo-tech Contour** cushion is contoured into sections. Its design supports the client and increases pressure redistribution. The combination of improved posture and increased support surface area will contribute significantly to pressure ulcer prevention. This deep cushion is suitable for heavier people.

### Moulded foam cushion

Moulding allows **Matrix Flo-tech** cushions to provide a three-dimensional form, which cannot be emulated in cut foam. Moulded foam is highly durable, increasing the product's longevity.

### Contoured seating surface

Offers improved stability and postural support; castellations reduce shear and friction forces on tissue.

## Features and Options



### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle for easy transportation.



### Available in 84 sizes

The *Invacare Matrix Flo-tech Contour* is available in a range of 84 sizes, from 14-24" width and 14-22" depths. (See size chart for details).



### Integral sag rigidizer option

Option of sag compensator to accommodate the sag in wheelchair seats, and ensure the cushion is correctly presented.



### Ultra-fresh™ added to all cushions for antimicrobial and odour protection

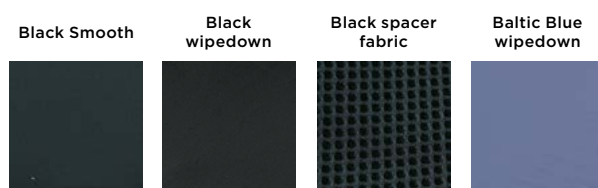
Antimicrobial treatment that has been added to all **Flo-tech** foam to help make it resistant to the growth of odour causing bacteria and helps provide longer lasting freshness.

## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                      |               |                             |                                     |                                  |                 |   |
|----------------------|---------------|-----------------------------|-------------------------------------|----------------------------------|-----------------|---|
| <p>Various sizes</p> | <p>Height</p> | <p>Total product weight</p> | <p>Max. user weight<sup>1</sup></p> | <p>Max. cleaning temperature</p> | <p>Warranty</p> | <p>Manufactured to European Standards: BS EN 1021-1 Cig, BS EN 1021-1 Match, and BS 7176 (Crib 5)</p> |
|                      |               |                             |                                     |                                  |                 |   |

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|
|       |    | 36    | 38 | 41 | 43 | 46 | 48 | 51 | 53 | 56 | 58 | 61 |    |
|       |    | inch  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| DEPTH | 33 | 13    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |    |    |
| 53    | 21 |       |    |    |    |    |    |    |    |    |    |    |    |
| 56    | 22 |       |    |    |    |    |    |    |    |    |    |    |    |



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# **Flo-tech<sup>™</sup> Contour Visco**



Contoured Visco memory foam that  
conforms to the shape of the body



The *Invacare* **Matrix Flo-tech Contour Visco** cushion is moulded from Visco-elastic foam. Its contoured surface area conforms to the body, improving posture, increasing comfort and maximising the surface area in contact with the individual, thereby increasing pressure redistribution.

### Deep moulded low memory foam cushion

The visco-elastic foam conforms to the body. By maximising the contact area it redistributed pressure and delivers exceptional levels of comfort. The deep foam makes this cushion particularly suitable for heavier and taller people.

### Contoured seating surface with pommel and side support

Offers increased lateral support and pelvic stability to enhance posture.

## Features and Options



### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle for easy transportation.



### Available in 58 sizes

The *Invacare* **Matrix Flo-tech Contour Visco** is available in a range of 58 sizes, from 14-20" widths and 13-21" depths. (See size chart for details).









### Four foam densities available

Available in four densities to accommodate a range of client weights - Soft (up to 51 kg), Medium (up to 76 kg), Firm (up to 108 kg) and Very Firm (up to 127 kg).

## Technical data

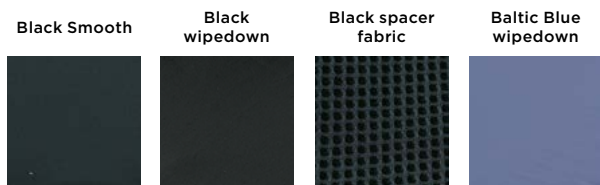
For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

| Various sizes   | Height  | Total product weight  | Max. user weight <sup>1</sup>  | Max. cleaning temperature  | Warranty  |
|---|---|---|--|--|---|
|  |  |  |                       |  |  |
| Up to 58 sizes  | 120 mm  | 1.6 kg  | soft: 51kg (8 stone)<br>medium: 76kg (12 stone)<br>firm: 108kg (17 stone)<br>very firm: 127kg (20 stone) | 80°  | 3 years   |

1. Guide maximum user weight limits are set assuming that the cushion selected is of appropriate width and depth for the intended user/s.

Manufactured to European Standards: Interior Foam: BS EN 1021-1, BS EN 1021-2, BS 5852: 1982 Crib 5

## Cover options



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SEATING SERIES

# Flo-tech™ Contour Lo-Back



Allows the individual to sit back  
further into their seat



The *Invacare* **Matrx Flo-tech Contour Lo-Back Cushion** has been designed with a lower rear contour allowing the individual to sit further back into seat. The additional contouring and support under the thighs stabilises the individual further, thus reducing the damaging effects of shear.



Comparison



**Contour Lo-Back Cushion optimises support surface contact area**

Comparison with standard wheelchair cushion, showing improved posture through use of the **Matrx Flo-tech Contour Lo-Back Cushion**.

**Matrx Flo-tech Contour**

**Matrx Flo-tech Contour Lo-Back**

## Features and Options



### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle for transportation.



### Available in 79 sizes

The Invacare **Matrx Flo-tech Contour Lo-Back Cushion** is available in a range of 79 sizes, from 14-24" widths and 13-22" depths. (See size chart for details).



### Contoured seating

Offers improved stability and postural support. Castellations reduce shear and friction forces on tissue.



### Ultra-fresh™ added to all cushions for antimicrobial and odour protection

Antimicrobial treatment has been added to all **Flo-tech** foam to help make it resistant to the growth of odour causing bacteria and helps provide longer lasting freshness.

### Moulded Foam Cushion

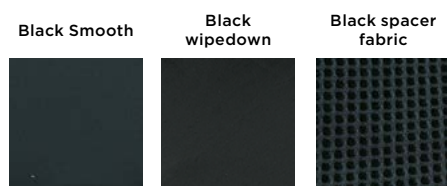
Moulding allows **Matrx Flo-Tech** cushions to provide a three-dimensional form, which cannot be emulated in cut foam. Moulded foam is highly durable, increasing the product's longevity.

## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|  |                             |  |   |   |                                |  |
|--|-----------------------------|--|---|---|--------------------------------|--|
| <p>Various sizes</p> <p><b>Matrx Flo-tech Contour Lo-Back Cushion</b></p> <p>A range of 79 sizes</p> | <p>Height</p> <p>103 mm</p> | <p>Total product weight</p> <p>1.38 kg</p> | <p>Max. user weight<sup>1</sup></p> <p>152 kg (24 stone)<br/>191 kg for 20" width/depth and above</p> | <p>Max. cleaning temperature</p> <p>80°</p> | <p>Warranty</p> <p>3 years</p> | <p>Manufactured to European Standards:<br/>BS EN 1021-1 Cig, BS EN 1021-2 Match and BS 7176 (Crib 5)</p> |
|  |                             |  |   |   |                                |  |

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|
|       |    | 36    | 38 | 41 | 43 | 46 | 48 | 51 | 53 | 56 | 58 | 61 |    |
|       |    | inch  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| DEPTH | 33 | 13    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |    |    |
|       | 53 | 21    |    |    |    |    |    |    |    |    |    |    |    |
| 56    | 22 |       |    |    |    |    |    |    |    |    |    |    |    |

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SEATING SERIES

# Flo-tech™ Plus



Deep contoured large cushion  
with fluid sac



The *Invacare* **Matrx Flo-tech Plus** cushion incorporates a fluid sac integrated in the cushion seat well. The positioning of the fluid sac targets the ischial tuberosities, helping to significantly reduce pressure in this vulnerable area. This delivers superior levels of protection for those patients identified as being at High Risk of developing pressure ulcers.

## Features and Options



### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle.



### Available in 77 sizes

The *Invacare* **Matrx Flo-tech Plus** is available in a range of 77 sizes, from 14-24" widths and 13-22" depths. (See size chart for details).



### Integral sag compensator option

Option to compensate the sag in wheelchair seats, to ensure the cushion is correctly presented.



### Ultra-fresh™ added to all cushions for antimicrobial and odour protection

Antimicrobial treatment has been added to all **Flo-tech** foam to help make it resistant to the growth of odour causing bacteria. Helps provide longer lasting freshness.

## Contoured seating surface

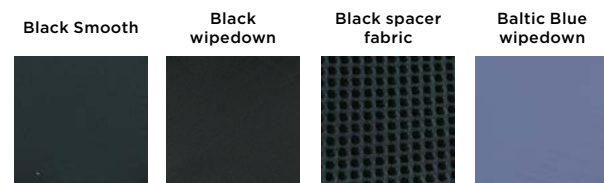
Offers improved stability and postural support. Also delivers a greater degree of pressure distribution compared to that of a flat surface. The castellations of the cushion allow slight movement which in turn reduces shear and friction forces. The deeper moulded foam offers greater protection to those who are considered clinically obese, or individuals who would benefit from a higher sitting position.

## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                            | Various sizes           | Height     | Total product weight | Max. user weight <sup>1</sup>   | Max. cleaning temperature | Warranty    | Manufactured to European Standards: BS EN 1021-1 Cig, BS EN 1021-2 Match and BS 7176 (Crib 5)   |
|----------------------------|-------------------------|------------|----------------------|---|---------------------------|-------------|---|
| <b>Matrx Flo-tech Plus</b> | <br>A range of 77 sizes | <br>103 mm | <br>2.5 kg           | <br>152 kg (24 stone)<br>191kg (30 stone) for sizes 20" width/depth and above | <br>80°                   | <br>3 years | 1. Guide maximum user weight limits are set assuming that the cushion selected is of appropriate width and depth for the intended user/s. |

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|
|       |    | 36    | 38 | 41 | 43 | 46 | 48 | 51 | 53 | 56 | 58 | 61 |    |
|       |    | inch  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| DEPTH | 33 | 13    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |    |    |
|       | 53 | 21    |    |    |    |    |    |    |    |    |    |    |    |
| 56    | 22 |       |    |    |    |    |    |    |    |    |    |    |    |



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SEATING SERIES

# Flo-tech™ Image



Slimline moulded foam cushion  
with fluid sac



The *Invacare **Matrix Flo-tech Image*** cushion uses a combination of a slim, shaped foam cushion base and a fluid sac covering the sacral area, increasing pressure distribution and immersion of the ischial tuberosities. This design delivers a high degree of protection for people who are at High Risk of developing pressure ulcers. This slim cushion format is ideal for both chair and wheelchair use.

## Features and Options



### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle for easy transportation.



### Available in 50 sizes

The *Invacare **Matrix Flo-tech Image*** is available in a range of 50 sizes, from 14-20" width and 13-21" depths. (See prescription chart for details).



### Integral sag compensator option

Option to compensate the sag in wheelchair seats, and ensure the cushion is correctly presented.



### Ultra-fresh™ added to all cushions for antimicrobial and odour protection

Antimicrobial treatment has been added to all **Flo-tech** foam to help make it resistant to the growth of odour causing bacteria and helps provide longer lasting freshness.

### Slimline contoured foam and gel combination cushion

Some individuals prefer a slimline cushion, finding it more convenient with their daily living activities. The *Invacare **Matrix Flo-tech Image*** combines the benefit of a contoured foam upper surface with a large fluid sac covering the ischial and sacral area, offering increased support and reducing the peak pressures.

### Contoured seating surface with gel sac

Offers improved stability and postural support; moulded foam castellations and fluid combine effectively to reduce shear and friction forces on tissue.

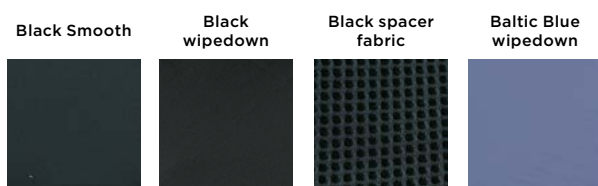
## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                              | Various sizes       | Height | Total product weight | Max. user weight <sup>1</sup> | Max. cleaning temperature | Warranty |   |
|------------------------------|---------------------|--------|----------------------|-------------------------------|---------------------------|----------|---|
|                              |                     |        |                      |                               |                           |          | Manufactured to European Standards: BS EN 1021-1 Cig, BS EN 1021-2 Match and BS 7176 (Crib 5) |
| <b>Matrix Flo-tech Image</b> | A range of 50 sizes | 78 mm  | 1.82 kg              | 140 kg (22 stone)             | 80°                       | 3 years  |   |

1. Guide maximum user weight limits are set assuming that the cushion selected is of appropriate width and depth for the intended user/s.

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|
|       |    | 36    | 38 | 41 | 43 | 46 | 48 | 51 |    |
|       |    | inch  | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| DEPTH | 33 | 13    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |
|       | 53 | 21    |    |    |    |    |    |    |    |

**matrix**<sup>®</sup>  
SEATING SERIES

# Flo-tech™ Solution



Slimline cushion with unique  
dual fluid sac system



The *Invacare **Matrix Flo-tech Solution*** cushion uses a combination of a slim, shaped foam cushion base and a dual layer of fluid sacs over the ischial and sacral area. The dual fluid sacs and the unique moulded foam shape of the solution increase the support surface area. This delivers a superior level of protection for patients identified as being at Very High Risk of developing pressure ulcers, or for those with already established tissue damage.

## Features and Options



### Ingress resistant cover

Cover is two-way stretch, water-resistant and vapour-permeable. Cover features an anti-slip base with carry handle for easy transportation.



### Available in 80 sizes

The *Invacare **Matrix Flo-tech Solution*** is available in a range of 80 sizes, from 14-24" widths and 13-22" depths. (See size chart for details).



### *Invacare **Matrix Flo-tech Deep Solution*** option

Option of a 10 cm (4") "Deep" foam base is also available in 12 sizes. (See prescription chart for details).



### Ultra-fresh™ added to all cushions for antimicrobial and odour protection

Antimicrobial treatment has been added to all **Flo-tech** foam to help make it resistant to the growth of odour causing bacteria. Helps provide longer lasting freshness.

### Slimline contoured foam base with large dual fluid sac covering the entire top surface of the cushion

The contact area between the individual and the foam cushion is protected, as the fluid displaces to redistribute pressure away from bony prominences. The additional layer of fluid is incorporated under the ischial and sacral area to further enhance the pressure reducing qualities of this cushion, making this cushion suitable for those at very high risk.

### Slimline contoured cushion

Some individuals prefer a slimline cushion, finding it more convenient with their daily living activities. The low profile is particularly beneficial for the facilitation of side transfers.

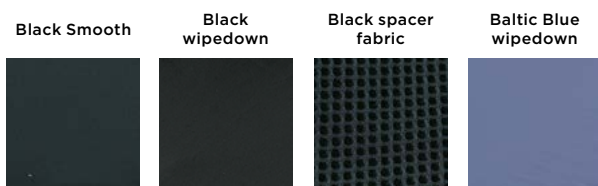
## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                                 | Various sizes       | Height | Total product weight | Max. user weight <sup>1</sup> | Max. cleaning temperature | Warranty |  |
|---------------------------------|---------------------|--------|----------------------|-------------------------------|---------------------------|----------|--|
|                                 |                     |        |                      |                               |                           |          | Manufactured to European Standards:<br>BS EN 1021-1 Cig, BS EN 1021-2 Match and BS 7176 (Crib 5) |
| <b>Matrix Flo-tech Solution</b> | A range of 80 sizes | 78 mm  | 3.08 kg              | 140 kg                        | 80°                       | 3 years  |  |

1. Guide maximum user weight limits are set assuming that the cushion selected is of appropriate width and depth for the intended user/s.

## Cover options



|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|
| cm    |    | 36    | 38 | 41 | 43 | 46 | 48 | 51 | 53 | 56 | 58 | 61 |
| inch  |    | 14    | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| DEPTH | 33 |       |    |    |    |    |    |    |    |    |    |    |
|       | 36 |       |    |    |    |    |    |    |    |    |    |    |
|       | 38 |       |    |    |    |    |    |    |    |    |    |    |
|       | 41 |       |    |    |    |    |    |    |    |    |    |    |
|       | 43 |       |    |    |    |    |    |    |    |    |    |    |
|       | 46 |       |    |    |    |    |    |    |    |    |    |    |
|       | 48 |       |    |    |    |    |    |    |    |    |    |    |
|       | 51 |       |    |    |    |    |    |    |    |    |    |    |
| 53    |    |       |    |    |    |    |    |    |    |    |    |    |
| 56    |    |       |    |    |    |    |    |    |    |    |    |    |

**matrx**<sup>®</sup>  
SEATING SERIES

# Flo-tech™ Solution Xtra™



High risk cushion & modular  
positioning system





Combines excellent pressure-reducing properties with the promotion of active correction and management of posture.

The *Invacare* **Matrix Flo-tech Solution Xtra Cushion and Modular System** has been developed alongside clinicians to address complex seating needs.

Through using this **modular system**, therapeutic interventions can be more effectively addressed with regards to postural maintenance by enhancing function, maximizing comfort and preserving skin integrity.

### Helps correct and manage posture

---

The modular components are manufactured from high-density resilient foam, to achieve active correction and posture management. The wedges feature witness marks and hook and loop fixings, enabling them to be cut to meet the needs of the individual. The application of wedges beneath the cushion combined with the deployment of modular components on the top surface deliver a highly versatile range of options for therapists seeking to achieve specific postural management interventions.



### Large dual fluid sac covering the entire top surface of the cushion

---

The first layer of fluid re-distributes pressure away from bony prominences so that the contact area between the person and the foam cushion is protected, The additional layer of fluid is incorporated under the ischial and sacral area to further enhance the pressure-reducing qualities of this cushion, making it suitable for those at a Very High Risk of developing pressure ulcers.

### Cover Design

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The cover is manufactured with an ingress-resistant material, which inhibits fluids from absorbing into the fabric. In addition, the cover expands to allow components to be added. The cover features two zips with colour coded sliders: blue to open and green to expand. It can also be opened either from the top or the bottom to adjust the components as necessary.

## Features and options



### Pelvic obliquity pad

The pelvic obliquity pad can be inserted into either side of the ischial well under the gel pad to help correct fixed pelvic obliquities.



### Hip aligner

The hip aligner can be placed on either side on the rear edge of the cushion, secured by the hook and loop fastener, and used either unilaterally or bilaterally to encourage mid-lining and hip alignment.



### Thigh aligner

The thigh aligner can be placed on either side at the front of the femoral shelf and used either unilaterally or bilaterally to reduce external rotation and abduction of the thighs.



### Pommel - standard or deep

The pommel can be placed on the front of the cushion to increase the existing pommel height helping femoral alignment, maintaining hip joints and can assist with spasticity.



### Rigidisers

The Rigidiser is to be placed under the whole cushion (including wedges). This maintains a firm base on slung canvases to maximise effect of component parts.



### Fluid sac

A Fluid Pack can be inserted into the ischial well where required, and can be doubled for specific placing. Specific placement will help prevent forward sliding, assist with sacral pressure and help mild pelvic obliquity.



### Front Wedge

Front Wedge is to be placed on the underneath of the cushion base and will need to be trimmed to size. It can assist with pelvic stability and accommodates posterior tilt whilst reducing anterior tilt.



### Side (tapered) Wedges

Side wedges can be placed on any corner of the cushion base. Can help assist lateral hip rotation and thigh alignment or even used under one thigh for mild hip flexion discrepancies and reducing milder postural positioning.

## Features and options



### Lateral Wedges

Lateral Wedges are to be trimmed to the size of the cushion and placed underneath to help facilitate lateral pelvic and hip stability while encouraging more contoured positioning.

### Ultra-fresh™ added to all cushions for antimicrobial and odour protection

Antimicrobial treatment has been added to all **Flo-tech** foam to help make it resistant to the growth of odour causing bacteria and helps provide longer lasting freshness.

## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|  | Size range | Height | Total product weight | Max. user weight <sup>1</sup> | Max. cleaning temperature | Warranty |                   |  |     |  |         |
|--|------------|--------|----------------------|-------------------------------|---------------------------|----------|-------------------|--|-----|--|---------|
|  | 80         |        | 78 mm                |                               | 3.08 kg                   |          | 140 kg (22 stone) |  | 80° |  | 3 years |

Matrix  
Flo-tech Xtra



Bariatric use

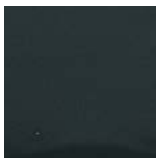
1. Guide maximum user weight limits are set assuming that the cushion selected is of appropriate width and depth for the intended user/s.

Manufactured to European Standards:

BS EN 1021-1 Cig, BS EN 1021-2 Match and BS 7176 (Crib 5)

## Cover options

Black Smooth



Black spacer fabric



Please notice colours may vary slightly from those displayed above.

|       |    | WIDTH |    |    |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|----|----|
|       |    | 36    | 38 | 41 | 43 | 46 | 48 | 51 | 53 | 55 | 58 | 61 |    |
|       |    | inch  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| DEPTH | 31 | 12    |    |    |    |    |    |    |    |    |    |    |    |
|       | 33 | 13    |    |    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |    |    |
|       | 38 | 15    |    |    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |    |    |
|       | 48 | 19    |    |    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |    |    |
|       | 53 | 21    |    |    |    |    |    |    |    |    |    |    |    |
|       | 55 | 22    |    |    |    |    |    |    |    |    |    |    |    |



**matrx**<sup>®</sup>  
SEATING SERIES

# Matrx<sup>®</sup> Libra<sup>®</sup>



Superior function with very high level  
of protection and positioning



With a perfect balance of immersion, off-loading and envelopment, the *Invacare Matrx Libra* cushion delivers the highest level of skin protection and positioning. The moulded foam base effectively redistributes forces to the hips and thighs, providing stability to optimise function. The unique dual layer fluid sac provides complete envelopment of bony prominences. Lightweight, low profile, and maintenance free, the **Libra** complements a variety of manual and power mobility bases. A full range of positioning accessories is available for extra support and targeted positioning.



### Unique design

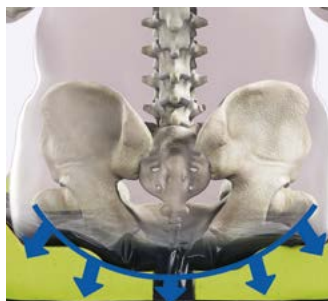
- Combination of foam and fluid for highest level of skin protection, positioning and adjustability for individual needs
- New dual layer fluid sac with *Invacare's Flo-tech™* technology envelops bony prominences and reduces shear using non-temperature sensitive fluid for worry-free, reliable protection
- Highly durable HR-moulded foam base: innovative design increases immersion and balances posture



### Functional benefits

- Improves pelvic stability from all sides, optimising function
- Suitable for individuals at very high risk for skin breakdown
- Lightweight, low-profile, and maintenance free, **Libra** complements an active lifestyle
- Recommended for all individuals including those with specific seating needs

### Features and options



#### Immersion

Maximises surface contact area in order to reduce peak pressures.  $\text{Pressure} = \text{Force}/\text{Area}$ .



#### Off-Loading

Transfers forces away from the ischial tuberosities with greater weight bearing on the trochanters, hips and thighs.



#### Envelopment

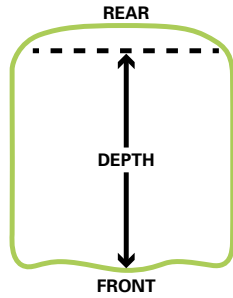
Fluid sac completely surrounds the bony prominences, even during position changes.



#### Pelvic Stability

Contouring of the pelvic well provides lateral trochanteric support and anterior/posterior pelvic stability, promoting spinal extension for improved upper extremity function, head control and physiological function.

## Features and options



### Waterfall cut

For tight hamstrings, easier transfers and foot propulsion.

### Cushion size

Actual seat depth is 380 mm longer when measured along the middle, due to the rear cushion radius.

### Rear cushion radius

A 380 mm curved extension for maximum surface area minimizes gap between seat and backrest. Stabilizes fluid in tilted positions, with coccyx cut out for added relief.



### Anterior wedge

Increases slope, prevents sliding and reduces shear.

### Trimmed anterior wedge

For hip flexion limitations and/or lower seat height for foot propulsion.



### Tapered wedge

For enhanced adductor support.

### Tapered wedge

For obliquity and pelvic rotation when used in rear.



### Lateral wedge

Reinforces lateral stability for enhanced midline positioning.

### Fluid supplement sac

For targeted protection/obliquity accommodation. Fits securely inside main sac and pelvic well.

### Abductor

For comfortable mid-line positioning of thighs and hips.

### Side pocket for convenient storage

Includes quad pull cord.

# Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                    |            |        |                      |                        |                           |                                 |
|--------------------|------------|--------|----------------------|------------------------|---------------------------|---------------------------------|
|                    | Size range | Height | Total product weight | Max. user weight       | Max. cleaning temperature | Surface cleaning                |
|                    |            |        |                      |                        |                           |                                 |
| <b>Matrx Libra</b> | 35 sizes   | 89 mm  | 1.6 kg               | Std 136 kg<br>HD 227kg | Outer cover: 80°          | Inner liner:<br>With damp cloth |



# Cover options

|   |                            |   |
|---|----------------------------|---|
| <b>Black Smooth</b>                         | <b>Black spacer fabric</b> | <b>Black wipedown</b>                       |
|   |                            |   |
| <b>Water resistant<br/>Vapour permeable</b> | <b>Vapour permeable</b>    | <b>Water resistant<br/>Vapour permeable</b> |

Please notice colors may vary slightly from those displayed above.

|       |    | WIDTH |    |    |    |    |    |    |    |    |    |
|-------|----|-------|----|----|----|----|----|----|----|----|----|
|       |    | 36    | 38 | 41 | 43 | 46 | 48 | 51 | 53 | 56 |    |
|       |    | inch  | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| DEPTH | 30 | 12    |    |    |    |    |    |    |    |    |    |
|       | 36 | 14    |    |    |    |    |    |    |    |    |    |
|       | 41 | 16    |    |    |    |    |    |    |    |    |    |
|       | 43 | 17    |    |    |    |    |    |    |    |    |    |
|       | 46 | 18    |    |    |    |    |    |    |    |    |    |
|       | 51 | 20    |    |    |    |    |    |    |    |    |    |
| 56    | 22 |       |    |    |    |    |    |    |    |    |    |

**Meet David**  
Matrx Libra and MX2 Case Study

David is 37 and lives with his girlfriend in Culebrug in the Netherlands. At the age of 23 he was diagnosed with Ehlers-Danlos Syndrome. His condition has meant that over the years he has become increasingly dependent upon a wheelchair for mobility, although currently he is still able to walk short distances.

David takes a keen interest in the different products (seat cushions and back supports) available on the market. He makes about 1000 different equipment purchases each year, in a bid to increase both his own and other people's product awareness to help when making equipment choices. In his spare time, he enjoys travelling around Europe and handbiking.

David contacted Invacare, seeking to trial the Matrx Libra cushion. He met with Rhona Mould, Invacare's Clinical Specialist to discuss his needs.

David owns a previously purchased Oracing medical custom-made armchair which has an engine. He currently uses an Invacare Fresh Image cushion, combined with a back support, both of which he was given to trial.

He states that he likes the cushion, however, he indicates it's the wrong size for his wheelchair as it's a foam cushion and that it has a hard back which obstructs and has started to sag, not giving him the postural stability he needs. He also notes that the fluid has a tendency to flow over the rear edge of the cushion, leaving him with nothing under his buttocks where he is prone to skin breakdown.

Following a suitable, adjustable cushion with proper protection for a wheelchair with an engine is not easy.

Although he currently has no skin issues, David reports that he has had marking and rashes under his heated lubricator (TL) in the area.

David feels his previous backrest gave him good support, especially laterally around his lower rib cage, but he found the foam pads too firm and that the back lacked flexibility. Skin integrity is a real issue for David, his skin marks easily. David has noticed the rashes when he uses his substitute and thinks this is because of the postural position he adopts, limiting his activity tolerance. Previously, David was a keen cyclist, covering up to average 500km a day. He would study how to be able to increase the distance he can cover with his handbike.

David has trialed a number of other back supports and cushions. His first wheelchair came fitted with a tension adjustable back support, and a heated TL (TL) foam cushion, but neither proved appropriate. The cushion caused hip pain and the back support sagged and broke his skin.

Next, he tried another foam cushion, which combined two types of foam. However, this didn't make a difference either. He then looked at low profile inflatable air cushions which he thought would be better. This, he remarked, was better than the first cushion, but didn't provide enough shock absorbency outdoors, leading to lower back pain. He then looked at high profile inflatable air cushions and felt that this was an improvement to the low profile version, but it still didn't

## Other resources available

- Understanding Matrx Libra Poster
- Matrx Clinical evidence book
- Case study: Meet David

**matrx**<sup>®</sup>  
SEATING SERIES

# Mini Seating Series



Transforming kids seating



The *Invacare* **Matrx Mini Back** is designed to provide exceptional support with maximum freedom of movement. Every element of the Mini Back has been carefully designed and constructed, keeping paediatrics at the forefront at every stage. Key features include:

- Lightweight, contoured and durable backrest
- Highly-adjustable **Matrx Mini Elan** headrest



#### Lightweight, contoured and durable backrest

The *Invacare* **Matrx Mini Back** provides comfort, stability and improved positioning. Its Mini Set hardware can be installed and adjusted in minutes while its quick release mechanism makes the lightweight backrest highly portable.

The *Invacare* **Matrx Mini Back** offers the possibility to adjust for growth and the adjustable mounting pins allow it to fit to chairs with the same or 25 mm wider back.



## Features and Options



### Cover

Back - Water resistant and breathable with attractive Kid\*ab\*ra print.



### Mini Set Back Hardware

Allows 100 mm of depth adjustment to accommodate growth and can recline up to 30° and rotate. The hardware fits 25 mm, 22 mm & 19 mm diameter back canes.



### Mini Swing-away Laterals

Height, width and depth adjustable lateral support for added stability and positioning. Latch release mechanism allows pads to be rotated out of the way for side transfers. Pad size W110 mm x H82 mm.



### Headrest Clamp

Mini backs are pre-drilled to allow easy attachment of headrests.



### Mini Elan Headrest

Elan hardware is infinitely adjustable through 6 adjustment points with a full range of Elan positioning pads - see the Elan headrest brochure for further details.



### Chest Harness Interface Kit

Allows attachment of chest support straps to mini backs.

## Cover options

### Kid\*ab\*ra print



Startex inner cover with funky print on outer cover

## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|      | Height                | Width                      | Contour depth | Depth adjustment | Angle adjustment  | Total product weight | Max. user weight |
|------|-----------------------|----------------------------|---------------|------------------|-------------------|----------------------|------------------|
| Back | 180, 260, 310, 360 mm | 260, 280, 310, 330, 360 mm | 80 mm         | 100 mm           | 30° range +/- 15° | 400 g and up         | 68 kg            |

## Back

### WIDTH

|       |      | WIDTH |    |    |    |    |
|-------|------|-------|----|----|----|----|
|       |      | 26    | 28 | 31 | 33 | 36 |
| DEPTH | cm   | 26    | 28 | 31 | 33 | 36 |
|       | inch | 10    | 11 | 12 | 13 | 14 |
|       | 18   | 07    |    |    |    |    |
|       | 26   | 10    |    |    |    |    |
|       | 31   | 12    |    |    |    |    |
| 36    | 14   |       |    |    |    |    |





**matrix**<sup>®</sup>  
SEATING SERIES

# Matrix<sup>®</sup> Seating Series



**INVACARE**<sup>®</sup>  
Yes, you can.<sup>®</sup>

Invacare **Matrx** backs are easy to interchange, install and adjust. Combined with a wide range of contoured seat cushions, the Matrx Seating Series provides you with a complete seating solution which is highly effective in meeting the widest range of individual needs.

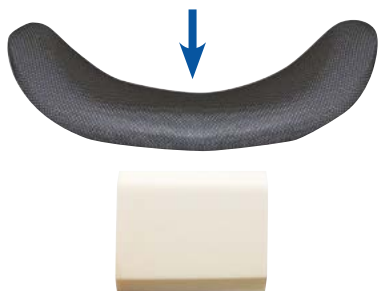
Invacare's **Matrx Elite** backrest system has been superceded by the new **Matrx Elite E2** series. For further information see the new Matrx Elite E2 backs in this section.

## Invacare **Matrx PB Back**



The *Invacare Matrx PB Posture Back* is contoured to provide midline support and positioning. The extensive range of sizes provides exceptional support and comfort for a variety of individuals.

13 cm Contour Depth-standard



Sacral/lumbar support

### Foam:

- Moulded foam wraps around shell for maximum comfort and protection

### Outer cover:

- Moisture resistant and breathable

### Sacral/lumbar support:

- Includes removable positioning pad

### Back shell:

- Contoured shell provides exceptional midline support and positioning
- Durable, lightweight back shell includes built-in plate for headrest attachment

### Hardware (ordered separately):

- Hardware installed and adjusted in minutes – adjustments can be made while the individual is seated in the wheelchair
- Easy Set (quick release), Split or Fixed mounting hardware available
- Refer to Hardware page 8

| Posture Back sizes |                     | Heavy-Duty sizes        |                    |
|--------------------|---------------------|-------------------------|--------------------|
| Width              | 36cm/14"            | Width                   | 51cm/20"           |
|                    | 41cm/16"            |                         | 56cm/22"           |
|                    | 43cm/17"            |                         | 61cm/24"           |
|                    | 46cm/18"            | Height                  | 41cm/16"           |
|                    | 51cm/20"            |                         | 51cm/20"           |
| Height             | 31cm/12"            | Weight Capacity         | 227kg (35.7 stone) |
|                    | 41cm/16"            |                         |                    |
|                    | 51cm/20"            |                         |                    |
| Weight Capacity    | 136 kg (21.4 stone) | <b>Extra Wide sizes</b> |                    |
|                    |                     | Width                   | 61-76cm/24-30"     |
|                    |                     | Height                  | 41cm/16"           |
|                    |                     |                         | 51cm/20"           |
|                    |                     | Weight Capacity         | 227kg (35.7 stone) |

| PB BACK      |          |          |                       |
|--------------|----------|----------|-----------------------|
| Product Code | Width    | Height   | Fits Wheelchair Width |
| MPB1412NH    | 36cm/14" | 31cm/12" | 33-38 cm              |
| MPB1416NH    | 36cm/14" | 41cm/16" | 33-38 cm              |
| MPB1612NH    | 41cm/16" | 31cm/12" | 38-43 cm              |
| MPB1616NH    | 41cm/16" | 41cm/16" | 38-43 cm              |
| MPB1620NH    | 41cm/16" | 51cm/20" | 38-43 cm              |
| MPB1712NH    | 43cm/17" | 31cm/12" | 41-46 cm              |
| MPB1716NH    | 43cm/17" | 41cm/16" | 41-46 cm              |
| MPB1720NH    | 43cm/17" | 51cm/20" | 41-46 cm              |
| MPB1812NH    | 46cm/18" | 31cm/12" | 43-48 cm              |
| MPB1816NH    | 46cm/18" | 41cm/16" | 43-48 cm              |
| MPB1820NH    | 46cm/18" | 51cm/20" | 43-48 cm              |
| MPB2012NH    | 51cm/20" | 31cm/12" | 48-51 cm              |
| MPB2016NH    | 51cm/20" | 41cm/16" | 48-51 cm              |
| MPB2020NH    | 51cm/20" | 51cm/20" | 48-51 cm              |

| HEAVY DUTY PB BACK |                                      |
|--------------------|--------------------------------------|
| Back               | Product Code                         |
|                    | Fits Wheelchair Width                |
| HDB2016            | 51-53cm/20-21"                       |
| HDB2020            | 51-53cm/20-21"                       |
| HDB2216            | 56-59cm/22-23"                       |
| HDB2220            | 56-59cm/22-23"                       |
| HDB2416            | 61-64cm/24-25"                       |
| HDB2420            | 61-64cm/24-25"                       |
| HDBWW16            | Fits wheelchair width Up to 76cm/30" |
| HDBWW20            | Fits wheelchair width Up to 76cm/30" |



The *Invacare Matrix PB Deep back* provides the same features as the standard Posture Back with increased contour depth for more midline guidance and positioning.

### Foam

- Molded foam wraps around shell for maximum comfort and protection

### Outer cover:

- Moisture resistant and breathable

### Sacral/lumbar support:

- Includes removable positioning pad

### Back shell:

- Deep contoured shell provides exceptional midline support and positioning
- Durable, lightweight back shell includes built-in plate for headrest attachment

### Hardware (ordered separately):

- Hardware installed and adjusted in minutes – adjustments can be made while the individual is seated in the wheelchair
- Easy Set (quick release), Split or Fixed mounting hardware available
- Refer to Hardware page 8



Sacral/lumbar support

| Deep PB back sizes |                                   |
|--------------------|-----------------------------------|
| Width              | 36 cm, 41 cm, 43 cm, 46 cm, 51 cm |
| Height             | 31 cm, 41 cm, 51 cm               |
| Weight Capacity    | 136 kg (21.4 stone)               |

| Heavy-Duty sizes |                     |
|------------------|---------------------|
| Width            | 51 cm, 56 cm, 61 cm |
| Height           | 41 cm, 51 cm        |
| Weight Capacity  | 227 kg (35.7 stone) |

| Extra Wide sizes |                     |
|------------------|---------------------|
| Width            | 61-76 cm            |
| Height           | 41 cm, 51 cm        |
| Weight Capacity  | 227 kg (35.7 stone) |

| PB DEEP BACK |          |          |                       |
|--------------|----------|----------|-----------------------|
| Product Code | Width    | Height   | Fits Wheelchair Width |
| PBD1412NH    | 36cm/14" | 31cm/12" | 33-38 cm              |
| PBD1416NH    | 36cm/14" | 41cm/16" | 33-38 cm              |
| PBD1612NH    | 41cm/16" | 31cm/12" | 38-43 cm              |
| PBD1616NH    | 41cm/16" | 41cm/16" | 38-43 cm              |
| PBD1620NH    | 41cm/16" | 51cm/20" | 38-43 cm              |
| PBD1712NH    | 43cm/17" | 31cm/12" | 41-46 cm              |
| PBD1716NH    | 43cm/17" | 41cm/16" | 41-46 cm              |
| PBD1720NH    | 43cm/17" | 51cm/20" | 41-46 cm              |
| PBD1812NH    | 46cm/18" | 31cm/12" | 43-48 cm              |
| PBD1816NH    | 46cm/18" | 41cm/16" | 43-48 cm              |
| PBD1820NH    | 46cm/18" | 51cm/20" | 43-48 cm              |
| PBD2012NH    | 51cm/20" | 31cm/12" | 48-53 cm              |
| PBD2016NH    | 51cm/20" | 41cm/16" | 48-53 cm              |
| PBD2020NH    | 51cm/20" | 51cm/20" | 48-53 cm              |

| HEAVY DUTY PB DEEP BACK |                                      |
|-------------------------|--------------------------------------|
| Product Code            |                                      |
| Back                    | Fits Wheelchair Width                |
| DHD2016                 | 51-53cm/20-21"                       |
| DHD2020                 | 51-53cm/20-21"                       |
| DHD2216                 | 56-59cm/22-23"                       |
| DHD2220                 | 56-59cm/22-23"                       |
| DHD2416                 | 61-64cm/24-25"                       |
| DHD2420                 | 61-64cm/24-25"                       |
| DHDWW16                 | Fits wheelchair widths Upto 76cm/30" |
| DHDWW20                 | Fits wheelchair widths Upto 76cm/30" |

## Invacare **Matrix Hardware**

The *Invacare Matrix Easy Set hardware* is easily installed in minutes, and all adjustments can be made with the individual seated in the wheelchair.

(N.B. Hardware options are not applicable to **NEW 2021 Elite E2 backs** - please see dedicated brochure)



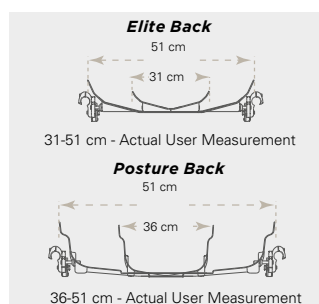
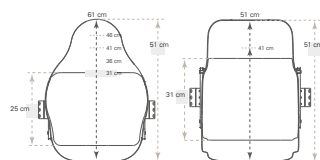
### Key Features and Functional Benefits

- Quick release for easy portability
- Adjustment of depth 10.2 cm, angle (40°) and rotation
- Standard fits 1.9 cm, 2.2 cm and 2.5 cm diameter canes
- Option to fit to 2.9cm diameter back canes

### Optional Privacy Flap Attachment

All **Matrix PB Backs** and **Matrix Elite Backs** include loop fasteners for easy addition of the optional Privacy Flap. Four standard sizes of Privacy Flaps are available to fit all standard **Elite** and **Elite deep** backs from 30.5 to 50.5 cm wide.

## Features and options



### Styles

*Invacare Matrix backs:* Elite, Elite Deep, PB and PB Deep are interchangeable on the **Easy Set Hardware**.

### Heights

Several back heights available to provide support from low to upper thoracic.

### Widths

Backs widths from 31-51cm/12-20" are available to provide exact fit for each individual.

### Contour Depth

Choice of 4 contour depths for appropriate midline support requirements.

## Accessories - Mounting Pins

### Standard Mounting Pins

Standard mounting pins (included with all *Invacare Matrix PB/Elite backs*) allow the backrest to fit chairs 2.5 cm narrower or the same width.

### Longer Mounting Pins

Longer mounting pins (included with all *Invacare Matrix PB/Elite backs*) allow the backrest to fit chairs 2.5 cm wider.



### Extended Mounting Pins

Optional extended mounting pins available for *Invacare Matrix PB & Elite Backs* (Not available on Heavy Duty PB backs) allows the back to fit chairs up to 5 cm wider.

## Easy Set Hardware Adjustments



### Depth

Adjusts 5 cm behind back canes.



### Depth

Adjusts 5 cm in front of back canes.



### Angle

20° anterior range of back angle adjustment.



### Angle

20° posterior range of back angle adjustment.



### Rotation

Back may be orientated to accommodate pelvic/trunk rotation.

PBMH - Fits 190, 220 and 250mm back canes

PBMHQ - Fits 290mm back canes

## Other Mounting Hardware Options



### Heavy Duty "Easy-Set" Mounting Hardware - HDMH

- Standard with Heavy-Duty Posture Backs
- Recommended for individuals over 136 kg, high tone or heavy use



### Fixed Space Saver Mounting Hardware - FSSH

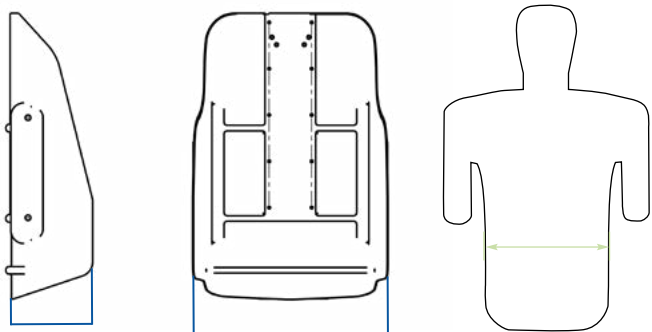
- Non-Portable
- Requires tools for removal of back from wheelchair
- Saves space for tighter width applications
- Fully adjustable



### Split Mounting Hardware SMH

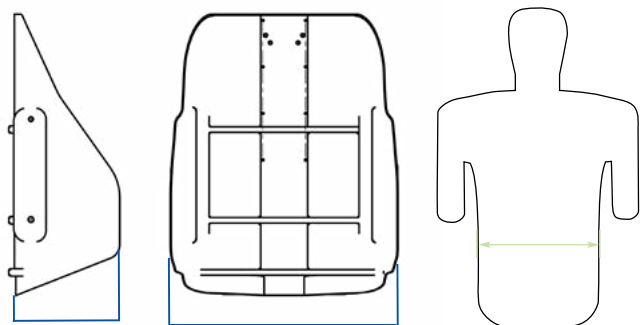
- Provides clearance of mid back cane rigidizer bars or other impedences on the back canes
- Not recommended for Heavy-Duty Posture backs

## Invacare **Matrix Back Specifications**



C - Contour depth    A - Outer width    B - Trunk Width

| <b>Invacare Matrix PB Back</b>          |                        |        |        |        |        |
|---|------------------------|--------|--------|--------|--------|
| Back Height                             | 305 mm, 405 mm, 505 mm |        |        |        |        |
| Width                                   | 355 mm                 | 405 mm | 430 mm | 455 mm | 505 mm |
| <b>Back Shell Only</b>                  |                        |        |        |        |        |
| A-Outer Width                           | 310 mm                 | 360 mm | 385 mm | 420 mm | 465 mm |
| C-Contour Depth                         | 125 mm                 | 125 mm | 125 mm | 125 mm | 125 mm |
| <b>Back Shell with Cover &amp; Foam</b> |                        |        |        |        |        |
| B-Trunk Width                           | 230 mm                 | 275 mm | 300 mm | 330 mm | 375 mm |



C - Contour depth    A - Outer width    B - Trunk Width

| <b>Invacare Matrix PB Deep Back</b>     |                                      |        |        |        |        |
|---|--------------------------------------|--------|--------|--------|--------|
| Back Height                             | 305 mm, 405 mm, 505 mm               |        |        |        |        |
| Width                                   | 355 mm                               | 405 mm | 430 mm | 455 mm | 505 mm |
| <b>Back Shell Only</b>                  |                                      |        |        |        |        |
| A-Outer Width                           | 320 mm                               | 370 mm | 395 mm | 435 mm | 475 mm |
| C-Contour Depth                         | 178 mm                               | 178 mm | 178 mm | 178 mm | 178 mm |
| <b>Back Shell with Cover &amp; Foam</b> |                                      |        |        |        |        |
| B-Trunk Width                           | 230 mm                               | 275 mm | 300 mm | 330 mm | 375 mm |
| Depth adjustment                        | 100 mm (50 mm in front or behind)    |        |        |        |        |
| Angle Adjustment                        | 40 °                                 |        |        |        |        |
| Product Weight                          | Standard - 1.81 kg<br>Deep - 2.25 kg |        |        |        |        |
| Weight Capacity                         | Standard - 136kg<br>Deep - 227kg     |        |        |        |        |
| Warranty                                | 2 years                              |        |        |        |        |

## Technical data

For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                        | Width        | Back shell weight | Max. user weight | Max. cleaning temperature |
|------------------------|--------------|-------------------|------------------|---------------------------|
| <b>PB Back</b>         | 14-20 inches | 1.81 kg           | 136 kg           | Cover: 60°                |
| <b>PB Deep Back</b>    | 14-20 inches | 2.25 kg           | 136 kg           | Cover: 60°                |
| <b>HD PB Back</b>      | 20-30 inches | 3.15 kg           | 227 kg           | Cover: 60°                |
| <b>HD PB Deep Back</b> | 20-30 inches | 3.70 kg           | 227 kg           | Cover: 60°                |



**Fire Testing:**  
EN 1021: Part 1 & 2

**Bio-Compatibility:**  
ISO 10993-5

## Cover options

Mesh Tex fabric



Please notice colors may vary slightly from those displayed above.



**matrix**<sup>®</sup>  
SEATING SERIES

# E2 Back Series



Invacare<sup>®</sup> **Matrix<sup>®</sup> E2<sup>™</sup> Back Series**

INNOVATION | COMFORT | FREEDOM



# Posture Support to enable independent mobility

The new **E2 Back Support** is our latest innovation in seating, offering maximum postural support for those with reduced mobility. With a pin assembly function for effortless mounting, the **E2 Back Support** is also available in a wider range of widths and heights to ensure maximum fit. The new leading edge Ripple Foam technology provides temperature control and enhanced immersion for the most comfortable support ever.

## Ergonomic Design

The new ergonomic design increases support and pressure distribution to ensure a more precise and comfortable fit. The design has been contoured to support the pelvis and allow clearance of the hips to increase stability and balance.



### Back Shell

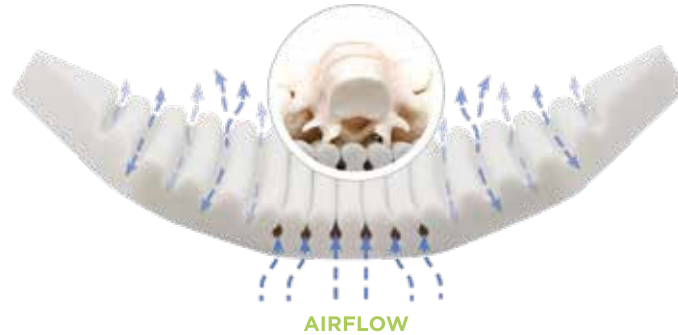
- ▶ Cutouts for airflow
- ▶ Vertical slots for Hardware attachment
- ▶ Coccyx notch
- ▶ Pre-drilled for PostureFlex Abdominal support





## Ripple Foam Technology

The rippled foam surface increases airflow for breathability, temperature control and moisture reduction. The high resilience foam provides the spinal relief area with enhanced immersion and shear reduction.



### Cover

- ▶ Moisture resistant and breathable Meshtex™ outer cover
- ▶ Foam and cover overlap the shell for protection and comfort



## Mounting Pin Assembly

The back supports are mounted onto the chair and secured with an easy adjust mounting pin assembly. The flexible hardware is designed to match the needs of a range of body shapes and sizes, and can even be adjusted when the user is seated. It can also be positioned to avoid frame obstacles - such as arm supports and rigidizer bars etc.



### Mounting Pins

- ▶ Height and width adjustable
- ▶ Fits chairs same as model width or 2.5cm wider / narrower
- ▶ Back height can be adjusted even with user seated in back
- ▶ Hardware can be positioned to avoid frame obstacles like arm supports and rigidizer bars
- ▶ MiniSet interface standard on back heights up to 41cm, EasySet interface standard on 46/51cm back heights

# The Matrix E2 Back Support

is available in two contour depths



▲ **E2 Back**  
E2 Standard - 8cm Contour

▲ **E2 Deep Back**  
E2 Deep - 15cm Contour

## Product Specifications

- ▶ Width: 36/38/41/43/46/48/51cm
- ▶ Height: **NEW 15/20**/26/31/36/41/46/51cm
- ▶ Weight Capacity: 136kg.



## Easy Fix Laterals

- ▶ Fixed laterals can be installed inside or outside of the back shell
- ▶ Height adjustable in vertical slot, can be offset
- ▶ Compatible with E2 standard contour backs 26cm and higher

Inside Mount    Outside Mount



## Swing Away Laterals

- ▶ Compatible with E2 backs 26cm and higher, offset with backs 31cm and higher
- ▶ Available in 4 pad sizes: XS / S / M / L

## Complete range of accessories ▼



### ▲ BackBone

Sacro lumbar support targets pelvis to promote an upright posture.

- Contoured anatomical PSIS/ Sacrolumbar Support.
- Can be trimmed to desired size.
- Molded in loop fastener for attachment to back shell and ease of adjustment.



### ▲ Matrix Protect Slip Cover

To protect the backrest. Can be wiped clean with approved disinfectant wipes for greater hygiene. Easy to apply and remove for laundering.



### ▲ PostureFlex Abdominal Support

Designed to increase intra-abdominal pressure for enhanced voice and breath control. Provides comfortable upright postural support with flexible stretch for functional activities.

#### Easy keyhole attachment

- 3 mounting heights available in pre-drilled holes on back shell.
- Available in 2 sizes: M / L
- Optional quad release tab for easy independent application and removal of PostureFlex



### ▲ Headrest Interface Plate

Lightweight and low profile headrest attachment plate can be installed without cover removal. Included with all backs 36cm and higher. Optional extra strong steel headrest mount for extreme tone or heavy use applications.



### ▲ Shoulder Strap Interface Plate

Interface plate for precise placement of Strap Guides.

#### Models:

E2CHI-S: 36/38cm W backs  
E2CHI-M: 41 to 51cm W backs



### ▲ Matrix Privacy Flaps

Can be attached to the backrest with a pre-sewn Velcro loop strip located across the bottom rear of cushion cover.

Available in 4 sizes:  
XS / S / M / L

# Full range of hardware mounts ▼

for different applications and greater compatibility with our wheelchair range

## Standard Hardware



### MiniSet:

- ▶ Standard on all E2/E2D backs up to 41cm high



### EasySet:

- ▶ Standard on all E2/E2D backs 46cm & 51cm

## Optional Hardware



### Fixed MiniSet:

- ▶ Permanent mount requires tools for removal, recommended for tilt/recline applications
- ▶ Optional for E2/E2D backs up to 41cm high



### Fixed EasySet:

- ▶ Permanent mount requires tools for removal, recommended for tilt/recline applications
- ▶ Optional for E2/E2 Deep backs with Easy Set Mounting Pin Interface only (46 & 51cm high)



### Split:

- ▶ Allows clearance of frame obstacles, quick release
- ▶ Optional for E2/E2D backs with Easy Set Mounting Pin Interface only, not compatible with MiniSet



### Heavy-Duty MiniSet:

- ▶ Recommended for users with high tone or heavy use
- ▶ Quick release



### Heavy-Duty EasySet:

- ▶ Recommended for users with high tone or heavy intended use

**Adjustments:** Angle (40°), depth (5cm in front or behind back canes), can be offset to accommodate rotation.

**Fits:** 2.5cm back canes, inserts for 1.9cm and 2.2cm back canes included

## Build a family of seating products

Invacare also offers a complete range of seating products to complement your E2 back support.



Bodypoint belt



Invacare Matrix® Libra cushion



Invacare Matrix® Elan Headrest



**matrix**<sup>®</sup>  
SEATING SERIES

# MX2 Backrest



Specially engineered carbon fibre  
providing unmatched stability  
for ultimate freedom and performance



Designed for active individuals, the **MX2** is an ultra lightweight backrest with a fresh look and attractive design. A stylish add-on to any lightweight manual wheelchair, the **MX2** offers exceptional support to the lower trunk and pelvis, adding comfort and stability for optimised function – either to self-propel or engage in day to day activities.

With the **MX2**, you have it all – aesthetics, support, comfort and functionality.



### Lightweight carbon fibre shell

The **MX2** has been specially designed using several layers of carbon fibre to optimise flex and shock absorption. This means that the backrest will have the flexibility to accommodate the individual's movements whilst helping to keep them in a midline position; which is exactly what an active person needs – stable freedom of movement. It will also play a major role in vibration dampening, especially when combined with the carbon fixation hardware, which enables individuals to ride more comfortably.

### The perfect shape

The **MX2** offers a 76 mm depth of anatomical contouring for enhanced lateral stability and immersion of the trunk. Lateral cutouts for the hips allow increased freedom of movement; ideal when leaning laterally for pressure relief or when reaching to pick up objects. The scapula cutout allows for freedom of movement of the shoulder blade, without compromising on support, allowing the individual to self-propel efficiently, even with a higher back.



## Features and options

### Back shell

- Available in four heights and five widths allowing everyone to find a perfect match
- Cutouts for breathability to help manage microclimate
- Slotted design to allow height adjustments even when the individual is in the chair
- Breathable Spacer cover – backrests 230 mm or higher come with leatherette side panels
- Oversized foam for enhanced comfort and protection



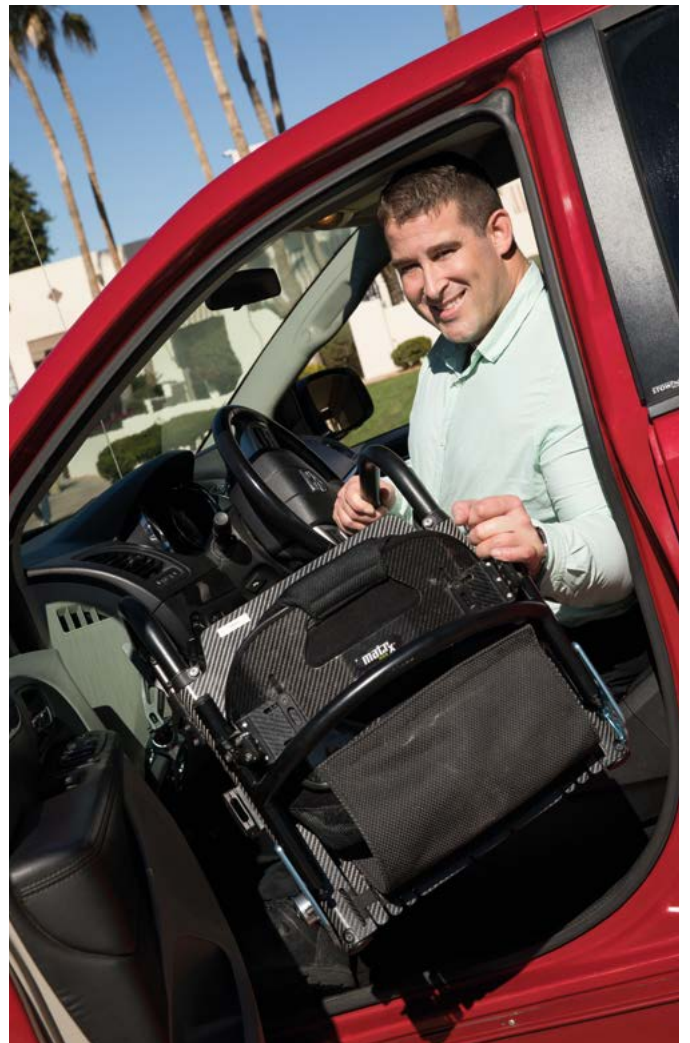
### Easy fit hardware

The **MX2** comes available with two types of hardware – Fixed Mount or Mini Set (quick release) – both allowing for 3D adjustment in:

- Height
- Depth (76 mm with fixed hardware; 108 mm with easy set hardware) and Angle (+/- 15° stepless)
- Rotation

The backrest hardware is also width adjustable, allowing the backrest to be fitted to wheelchairs that are up to 25 mm narrower or wider than the actual backrest width – an ideal feature for those with a wider back and narrower hips, or a narrow back and wider hips.

All of these adjustment possibilities ensure a precise fit and positioning in every rigid or folding wheelchair frame with a backrest tube diameter of 19 mm, 22 mm and 25 mm.



### Fixed mount

Constructed with a carbon fibre plate to reduce overall weight.

### Easy Set (quick release)

Easy to remove for portability.

## Features and options

### Privacy flap

An optional privacy flap which covers the opening between the seat and back.



### Positioning Pad

A lumbar pad is included as standard, providing lower back support for those who need additional comfort.

## Technical data

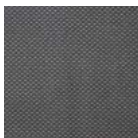
For more comprehensive pre-sales information about this product, including the product's user manual, please visit [www.invacare.co.uk](http://www.invacare.co.uk)

|                  | Width                      | Height                | Angle adjustment | Depth adjustment                          | Total product weight                                  | Cover cleaning temperature | Max. user weight | Limited warranty |
|------------------|----------------------------|-----------------------|------------------|---|---|----------------------------|------------------|------------------|
| <b>Matrx MX2</b> | 355, 380, 405, 430, 455 mm | 150, 230, 310, 410 mm | +/- 15°          | 76 mm <sup>1</sup><br>108 mm <sup>2</sup> | starting 770 gr and up (with fixed hardware included) | 60°                        | 113kg (17 stone) | 2 years          |

1. With Fixed Hardware
2. With Quick Release Hardware

## Cover options

Black spacer fabric



|       |     | WIDTH |     |     |     |     |     |
|-------|-----|-------|-----|-----|-----|-----|-----|
|       |     | mm    | 355 | 380 | 405 | 430 | 455 |
|       |     | inch  | 14  | 15  | 16  | 17  | 18  |
| DEPTH | 150 | 6     |     |     |     |     |     |
|       | 230 | 9     |     |     |     |     |     |
|       | 310 | 12    |     |     |     |     |     |
|       | 410 | 16    |     |     |     |     |     |

### Other resources available

- Case Study: Meet Catarina
- Case Study: Meet David



**matrix**<sup>®</sup>

# Headrest series

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Taking head support to the next level

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**Maximum head support**

Simple and intuitive adjustments



**Yes, you can.<sup>®</sup>**

## matrix<sup>®</sup> LOXX™



## matrix<sup>®</sup> ELAN®



### Newest addition to the series

Matrix<sup>®</sup> Loxx™ is a simple and intuitive headrest that offers a sleek and effective head support. With 4 adjustment points, the configurable hardware is a solution suitable for a wide range of needs.

#### Easy set up

Create the right support first time with the adjustment lever, allowing easy and intuitive position changes. Attachment knob for removal or height adjustment.

#### Highly adjustable hardware

Moderate kyphosis and asymmetrical postures can easily be accommodated.

#### Secure hold

This unique patent pending design has been crash tested and ensures a secure and superior hold, without any movement.

### Award-winning premium design

Matrix<sup>®</sup> Elan is a compact and lightweight headrest with extremely adjustable hardware that offers maximum support and comfort. With 6 adjustment points, its our most adjustable hardware yet, offering a solution for the widest range of applications.

#### Most adjustable design

Innovative hardware offers numerous positioning capability for more complex needs including more extreme kyphosis as well as swing-away function for easier transfers.

#### Tool-less adjustments

Set up quickly and effectively with a single Allen key tool, while the adjustment levers make it easy to change the position. Attachment knob for removal or height adjustment.

#### Locking multi-disc

This crash tested design, has an innovative locking feature that provides significant and reliable holding strength.

## Headrest pads



#### Comfortable

Dual density foam provides immersion, prevents bottoming out



#### Durable

High end molded foam surrounds backing plates for protection. Made with Ultra-fresh™ antimicrobial additive



#### Lightweight

Less than half of the weight of comparable steel plated pads



#### Versatile

Aluminum plates can be formed to desired shape



#### Covers

Zippered, moisture-resistant, breathable Startex fabric  
Standard or Infection control cover (reverse Startex) available



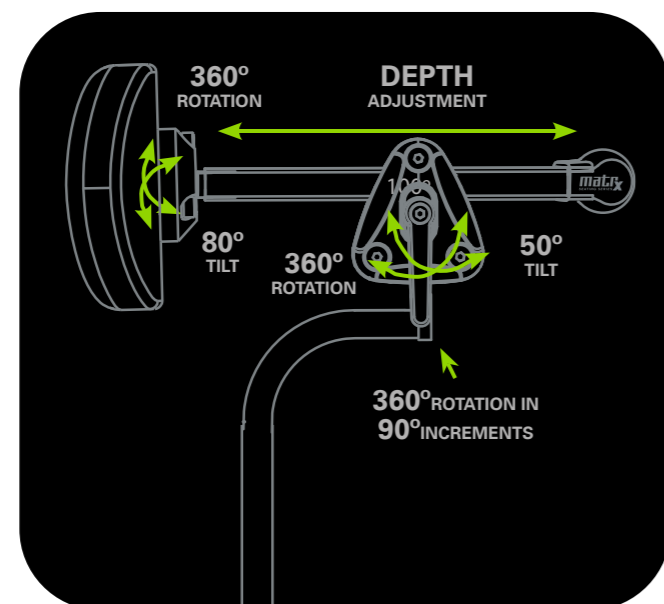
#### Headband

Comfortable neoprene forehead support. Simple keyhole attachment for ease of application. Inside of band includes non skid surface.

### Additional features

- > Dual pivot balls and slide bar for optimal pad orientation
- > Curved vertical post for lateral or forward mounting positions
- > High visibility protective urethane tip for improved safety

### Hardware adjustments

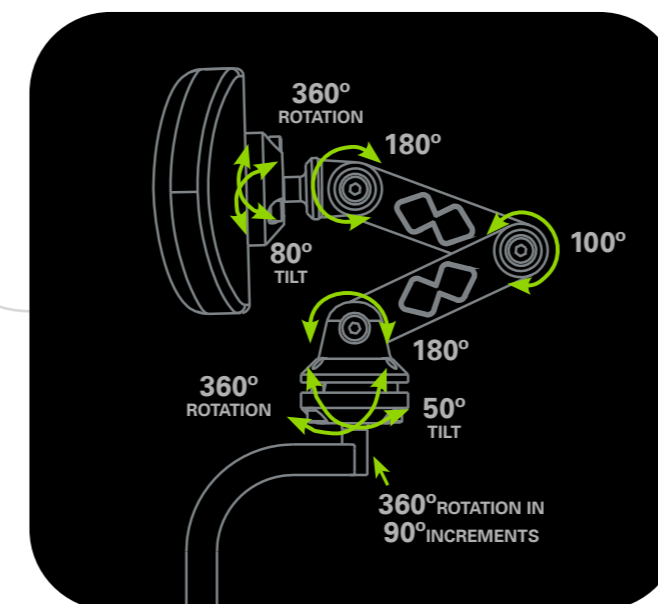


### Additional features

- > 2 post options: standard (380mm) and mini (280mm) to complement paediatric to adult applications
- > Curved vertical post for lateral or forward mounting positions
- > Extended hardware also available for reaching more severe kyphosis postures - includes an extra link



### Hardware adjustments



#### 2 Occipital pad options

Provides contoured support to the occipital and sub-occipital areas of the head. Available in two sizes.



#### 3 Ellipse pad options

Can be formed to fit the shape of the users head for posterior and lateral support. Available in 3 size.



#### 4-point support

Provides 4 points of support to the occipital and temporal areas of the head. Available in one size.



# Advanced technology

## Industry leading designs

Our Matrix seating and positioning range offers clinically effective, cutting-edge solutions that includes some of the most reliable, modular and functional products on the market. Introducing our new Matrix® Loxx™ headrest along with our award-winning Matrix® Elan headrest offering highly configurable hardware options in combination with our popular headrest pads.



## Mounting and compatibility

Included with both Matrix Elan and Loxx™ hardware is a mounting plate kit with an ergonomic low profile adjustment knob which allows our Matrix® headrest series to be attached to most solid back supports including our renowned Matrix® E2 range.

The mounting plate kit also consists of a shim for use when additional clearance is required. Alternatively, either model can be fitted to our Flex 3 headrest receivers with optional interface inserts.



# Technical data

Invacare can now offer a complete rehabilitation solution: cushion, back support, belt/harness and headrest. You can explore the full range by visiting [www.invacare.eu.com](http://www.invacare.eu.com).



**Matrix Loxx** ▼



**Matrix Elan Standard** ▼



**Matrix Elan Mini** ▼

**Hardware Options**

380 x 115 mm\*\*

380 x 260 mm\*\*

280 x 260 mm\*\*



**Ellipse Pad** ▼



**Occipital Pad** ▼



**4 Point Pad** ▼

**Pad Options**

**150 mm Ellipse Pad**  
150 x 90 mm

**230 mm Occipital Pad**  
230 x 180 mm

**4 Point Pad**  
280 x 260 mm

**250 mm Ellipse Pad**  
250 x 130 mm

**310 mm Occipital Pad**  
310 x 200 mm

**360 mm Ellipse Pad**  
360 x 130 mm



**Upholstery**

\* Invacare® Matrix® Elan® and Invacare® Matrix® Loxx™ Headrest Hardware passed Frontal Impact Sled Testing. Testing in accordance with ISO7176-5 (2019) Wheelchair Seating Systems for use in Motor Vehicles and ISO 16840-4 (2009) Wheelchair Seating-Part 4: Seating Systems for Use in Motion Vehicles.

\*\* + 70 mm lateral range





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