LECKEY

Squiggles
Stander

Squiggles
Stronger together.

We work with individuals, therapists and carers to design products with both a clinical and an emotional focus. Using the latest research and clinical understanding, we create practical solutions which are easily integrated into family life, because for us, life is about going, enjoying, participating and doing.
Why Stand?

- Enables kids to interact eye-to-eye with peers
- Improves wellbeing, alertness and sleep patterns
- Enhances circulation and blood pressure
- Aids digestion, bowel function and bladder drainage
- Improves respiration and voice control
- Facilitates formation of the hip joint in early development
- Stretches muscles, preventing the onset of contractures
- Increases bone density and reduces risk of fractures
- Improves skin integrity by relieving pressure encountered during sitting
Standing increases bone density and reduces the risk of fractures. Normal bone development needs a combination of good nutrition, weight bearing, e.g. through standing or walking, and the use of muscles. Research shows that standing improves the bone density of the pelvis and leg bones of non-ambulatory children, such as those with CP, Muscular Dystrophy, Spina Bifida or spinal cord injury.

Standing stretches muscles, preventing the onset of contractures. Research shows that standing programs, if maintained, improve the extensibility of the hamstrings, increase range of movement and reduce the extent of spasticity. Standing also provides proprioceptive input to young developing muscles and joints, builds endurance to standing and regulates resting muscle tone.

Standing improves respiration and voice control. When we stand, the diaphragm has more room to expand and contract, meaning that we can breathe in and out more easily, deeply and efficiently. Therefore, standing allows individuals to speak with improved volume and voice control.

Standing enhances circulation and blood pressure. Effective circulation is closely related to breathing. Standing results in improvements in blood pressure, heart rate and circulation, and a reduction in orthostatic hypotension and oedema in the legs and feet.

Standing enables kids to interact eye-to-eye with their peers. Eye-to-eye interaction improves confidence, self-esteem and self-image as the child can accomplish tasks in the same manner as other students or siblings. Supported standing eliminates the fear of falling and so allows the individual to direct their attention towards learning and social interaction.

Standing improves wellbeing, alertness and sleep patterns. Studies have reported improved sleep, decreased fatigue, increased alertness and feelings of wellbeing from regular standing. While standing, the effects of retained primitive reflexes such as symmetrical tonic neck reflex (STNR) and tonic labyrinthine reflex (TLR) are more controlled and therefore, sensory organisation, comfort, energy and attention are maximised.

Standing aids digestion, bowel function and bladder drainage. Standing is believed to help with digestion and toileting though a combination of gravity and the activation of the stomach muscles. Studies have backed this up showing improved bowel regularity and clearance and better bladder awareness and emptying.

Standing facilitates the formation of the hip joint in early development. Children who stand at the normal developmental age of 12-16 months are considered more likely to develop the ball and socket of the hip joint, which can prevent hip subluxation or dislocation. Standing from an early age also helps a child with standing transfers in the future.

Standing improves skin integrity by relieving pressure encountered during sitting. As standing improves respiration, it allows more oxygenated blood to reach tissues which are subject to pressure when seated, resulting in fewer bedsores and improved skin integrity.

The full article and clinical references in support of standing can be found at leckey.com
The Squiggles Stander is an extremely versatile three-in-one stander, offering prone, upright and supine standing in one product.

The product has a large growth range for kids aged 1 - 5 years and is available with a range of indoor and outdoor mobile bases.

The wide range of adjustability offered by the chest, hip, and knee supports and the head support in Supine provides clinicians with the tools to position a large range of children in the same product.

Colourful, tactile and fun design is ideal for young kids, with attractive age appropriate, machine washable covers, available in four colours.

Lightweight and robust stander support frame can be easily transferred from one chassis to another or disassembled for storage or transportation.
1. Adjustable pelvic positioning support
2. Adjustable chest positioning support
3. Cushioned sternum pad
4. Removable headrest compatible with a number of head supports
5. Adjustable foot plate
6. Adjustable knee supports
8. Pivot chassis
7. Contoured large activity tray

1. The height, depth, width and angle of the cushioned pelvic positioning support can be changed to support the child comfortably in a secure position.

2. The height, depth, width and angle of the chest positioning support can also be adjusted.

3. Cushioned sternum pad offers extra support which encourages extension and gives a wide range of freedom for the arms thus allowing a greater range of activities.

4. Headrest is compatible with a variety of head supports, including Whitmyer and Otto Bock. It can be removed for prone standing.

5. Adjustable footplates and sandals giving positive foot placement. The sandals can be turned around for prone standing.

6. Cushioned knee supports, which are individually adjustable in height, angle, rotation and depth, support the child’s knees when supine standing.

7. Activity tray can be used in either prone or supine position.

8. Pivot chassis with its 4 lockable swivel castors is easy to manoeuvre and can be tilted from vertical to almost horizontal.

9. Compact, static Easel chassis offers angle adjustment from vertical to 70°.

7. Clear plastic tray
The combination of the standing support and chassis options including our outdoor mobile chassis means that kids can benefit from standing therapy in any environment.

The Squiggles Pivot chassis offers a wide range of tilt incline options adjusting from vertical to almost horizontal.

This enables your child to be placed in the system at their preferred angle. It has 4 lockable swivel castors which make it very manoeuvrable around the classroom or home. This lightweight chassis can fold away in seconds for storage or transportation.

The Squiggles Easel chassis is a compact static chassis which offers angle adjustment from vertical to 70°. The Easel chassis is a static base which is extremely compact and folds away easily for storage.

The Squiggles Mobility Chassis encourages children to explore their environment whilst maintaining their required posture. The mobility chassis offers a choice of 610mm (24”) or 686mm (27”) quick release wheels with a depth adjustable hand rail and drum locking brakes.

The unique suspension is a very important safety feature as it ensures that the wheels will always remain on the ground even when going over uneven surfaces in the garden or playground.
The Squiggles Standing system.

The standard product includes:
Hip and chest support with sternum prompt; chest and hip lateral supports; kneecups; footplate and tray attachment.

## Squiggles standing system dimensions

<table>
<thead>
<tr>
<th>Age (approx)</th>
<th>1 - 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max user weight</td>
<td>22kg / 48.4lbs</td>
</tr>
<tr>
<td>User height</td>
<td>Min 750mm / 29.5 inches</td>
</tr>
<tr>
<td>Chest support</td>
<td>Angle adjustment +/- 30°</td>
</tr>
<tr>
<td>Chest support height (footplate to armpit)</td>
<td>Min 550mm / 21.5 inches</td>
</tr>
<tr>
<td>Chest width (distance between laterals)</td>
<td>Min 160mm / 6.3 inches</td>
</tr>
<tr>
<td>Hip support (height from footplate to mid buttocks)</td>
<td>Min 300mm / 11.8 inches</td>
</tr>
<tr>
<td>Hip width (distance between hip guides)</td>
<td>Min 160mm / 6.3 inches</td>
</tr>
<tr>
<td>Distance between midline of knees</td>
<td>Min 140mm / 5.5 inches</td>
</tr>
<tr>
<td>Footplate angle</td>
<td>Plantarflexion 10°</td>
</tr>
</tbody>
</table>

## Tray size

| Tray height - Prone (footplate to top of tray) | Min 555mm / 21.9 inches | Max 825mm / 32.5 inches |
| Tray height - Supine (footplate to top of tray) | Min 480mm / 18.5 inches | Max 825mm / 32.5 inches |
| Tray angle adjustment | Prone 30° | Supine 40° |

## Stander support frame

| Weight 7kg / 15.4lbs | Length 680mm / 26.8 inches |
| Width 390mm / 15.4 inches | Height 390mm / 15.4 inches |

## Pivot chassis footprint (unfolded)

| Weight 5.5kg / 12.1lbs | Length 820mm / 32.3 inches |
| Width 550mm / 21.7 inches | Height 515mm / 20.3 inches |

## Pivot chassis footprint (folded)

| Weight 5.5kg / 12.1lbs | Length 700mm / 27.6 inches |
| Width 550mm / 21.7 inches | Height 500mm / 11.8 inches |

## Easel chassis footprint (folded)

| Weight 1.5kg / 3.3lbs | Length 690mm / 27.2 inches |
| Width 540mm / 21.3 inches | Height 60mm / 2.4 inches |

## Pivot chassis angle range

| 90 - 160° | 90 - 70° |

## Mobile chassis weights

| Without suspension and wheels 6.1kg | With suspension, without wheels 8.4kg |
| With suspension and wheels 13.4kg | With fixed wheel kit, without wheels 8.4kg |
| With fixed wheel kit and wheels 13.4kg | |

## Mobile chassis footprint

| With wheels 740mm x 740mm | Without wheels 490 x 760mm |
Stander Shell

Standing system:
Stander support shell

Colour Options

Stander covers Green
Stander covers Orange
Stander covers Blue
Stander covers Pink

Covers Include: Support Harnesses (2) and Support Cushions (2), Lateral Covers (2 Pairs), Kneepads (1 Pair), Spine Cap Cover

Accessories

Sandals - small
Sandals - medium

Tray
Grab rail

Headrest support

Pelvic support harness (Mobility)

Contoured headrest
+01 Green +02 Orange
+03 Blue +04 Pink

Flat headrest cushion
+01 Green +02 Orange
+03 Blue +04 Pink

Flat headrest lateral supports
+01 Green +02 Orange
+03 Blue +04 Pink

Transparent activity tray

27” Wheels (686mm)
24” Wheels (610mm)
Suspension Kit
Fixed wheel kit

Spine cap cover

Chassis Options

Pivot Chassis
Gas operated.
Can be adjusted with child in frame.

Easel Chassis
Manually adjusted.
Position cannot be altered with child in frame.

Mobility Chassis (Indoor) Without suspension kit
For indoor use only. Manually adjusted.

Mobility Chassis With fixed wheel or suspension kit. Manually adjusted.

Leckey Servicing

Our FREE service and support includes:
Free product training
Free product set up
Free product assessment
Free product re-assessment
Free repair within 2 year warranty

For service policies on all products outside warranty, please contact Leckey’s Customer Service department. James Leckey Design Ltd as manufacturer with sole responsibility declares that all products conform to 93/42/EEC guidelines and EN12182 technical aids for disabled persons general requirements and test methods. Order forms and spare parts lists to extend the service life of the product and allow reissue are available on request or online at www.leckey.com.
Established in 1983, Leckey is a globally recognised pioneer in the research and development of products that help adults and children with disabilities to go, do, enjoy and participate in everyday activities throughout the day and night.

We take a highly clinical approach to product design and development. Through in-depth clinical research studies with leading universities, and extensive trials with occupational therapists, physiotherapists, users and their families, we continue to develop posturally supportive, family friendly products for all day care, at every stage of life.

Through early intervention, childhood and adulthood Leckey’s experienced team of designers, therapists and bioengineers work together to develop products that meet the clinical needs of the healthcare professionals and the social needs of the user.

To achieve this, we work with the healthcare professionals, the individuals and carers who use our products everyday. With their help, we create the dependable, durable, proven and high performance products that we are known for worldwide.