



**hilo**

INDOOR

## Clinical Justification Document

Functional Seating System for Activity, Therapy, and Participation



INDOOR

## 1. Clinical overview

The Hilo Indoor Activity Wheelchair is a height adjustable, indoor seating system designed for children and young people with moderate postural and functional needs.

It provides a clinically configurable seating solution to support:

- Functional sitting
- Postural alignment during activity
- Participation in education, therapy, and daily routines

The Hilo Indoor is typically prescribed alongside a primary mobility wheelchair, forming part of a broader 24 hour postural management strategy.

## 2. Intended use and clinical role

The Hilo Indoor is intended for use during:

- Classroom based learning
- Therapy sessions
- Mealtimes and feeding
- Structured play and interaction

**Clinical role:**

- Provides stable, supportive seating for functional tasks
- Enables consistent postural management across environments
- Supports engagement, endurance, and participation



## 3. Intended user group

Appropriate for individuals presenting with:

- Reduced or absent independent sitting balance
- Mild to moderate postural asymmetry
- Kyphotic or scoliotic tendencies
- Reduced endurance in unsupported sitting
- Sensory processing or regulation challenges
- Need for supported positioning during functional activity

## 4. Clinical rationale for prescription

### 4.1 Functional postural management

The Hilo Indoor supports postural alignment during activity, which is essential for:

- Upper limb function (e.g. reaching, writing, play)
- Feeding safety and efficiency
- Visual orientation and communication
- Sustained engagement in tasks

### 4.2 Pelvic stability and alignment

The system provides a stable base for:

- Pelvic positioning and alignment
- Prevention of posterior pelvic tilt during activity
- Improved trunk control and midline orientation

### 4.3 Risk reduction

Provision of appropriate activity seating reduces risk of:

- Postural fatigue and collapse
- Development or progression of asymmetry
- Reduced participation in education
- Inefficient or unsafe feeding posture
- Secondary musculoskeletal strain

## 5. Key clinical features and justification

### 5.1 Height adjustment (manual or powered)

Clinical purpose:

- Enables positioning at appropriate height for activity
- Supports eye level interaction and communication
- Facilitates inclusion across environments (floor, table, desk)
- Improves caregiver handling and ergonomics

### 5.2 Tilt in space (up to 35 °)

Clinical purpose:

- Supports fatigue management during prolonged sitting
- Maintains postural alignment during repositioning
- Assists with pressure redistribution
- Enables rest without transfer

### 5.3 Feet on floor positioning

Clinical purpose:

- Encourages active sitting and engagement
- Facilitates sit to stand and pivot transfers
- Promotes functional lower limb use
- Supports sensory and motor development

### 5.4 Postural support components

Includes:

- Pelvic positioning systems
- Adjustable back support
- Lateral supports (optional)
- Head support (optional)

Clinical purpose:

- Maintain alignment during activity
- Accommodate mild to moderate asymmetry
- Improve stability and endurance



## 6. Functional outcomes

When appropriately prescribed, the Hilo Indoor supports:

- Increased sitting tolerance
- Improved engagement in educational activities
- Enhanced upper limb function
- Improved feeding posture and safety
- Greater independence in structured tasks
- Reduced caregiver assistance requirements

## 7. Environmental considerations

The Hilo Indoor is designed specifically for:

- Indoor environments (home, school, therapy settings)
- Structured activity based use

It enables:

- Consistent postural support across key daily environments
- Seamless integration into classroom and home routines


## 8. Growth and adaptability

The Hilo Indoor is available in multiple sizes and offers:

- Adjustable seat dimensions
- Modular postural support components
- Reconfiguration as needs change

This supports:

- Ongoing alignment as the child grows
- Reduced need for equipment replacement
- Continuity of care



Expected service life:  
Up to 10 years with  
appropriate  
maintenance

## 9. Assessment and prescription process

Provision follows a specialist clinical assessment, including:

- Postural assessment (pelvis, trunk, head)
- Functional assessment (activity participation, environment)
- Evaluation of tone, movement, and endurance
- Identification of risks related to posture and fatigue

The chair is then:

- Individually configured
- Adjusted for optimal functional positioning
- Reviewed and modified as required

## 10. Safety and useage

- Intended for **indoor use only**
- Not crash tested for transport
- Should be used in controlled environments appropriate to activity

# 11. Configuration options

## Standard:

- Seat and back support system
- Pelvic positioning
- Arm supports
- Stable indoor base



## Enhanced:

- Lateral trunk supports
- Headrests
- Pommel system
- Harness configurations
- Foot and leg positioning options
- Functional accessories (trays, mounts)



## Bespoke:

- Custom contouring
- Asymmetry accommodation
- Structural modifications
- Fully bespoke seating solutions



## 12. Summary for funding justification

The Hilo Indoor Activity Wheelchair is clinically indicated for individuals requiring:

- A supportive seating system for functional activities
- Postural support during education, therapy, and feeding
- A height adjustable solution for environmental access and inclusion
- A complementary system to a primary mobility wheelchair

Provision of this system is expected to:

- Improve participation in education and daily activities
- Support functional independence
- Reduce fatigue and postural collapse
- Maintain postural alignment over time



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OUTDOOR

## Clinical Justification Document

Functional Seating System for Multi Environment Participation and Postural Management

## 1. Clinical overview

The Hilo Outdoor Activity Wheelchair is a height adjustable, multi-environment seating system designed for children and young people with moderate to complex postural and functional needs.

It provides a clinically configurable seating solution that supports:

- Functional sitting across environments
- Postural alignment during activity
- Participation in education, therapy, and community settings

The Hilo Outdoor is typically prescribed alongside a primary mobility wheelchair, forming part of a comprehensive 24 hour postural management strategy.

## 2. Intended use and clinical role

The Hilo Outdoor is intended for use across:

- Indoor environments (home, school, therapy)
- Outdoor environments (playgrounds, gardens, community settings)

Clinical role:

- Extends functional seating beyond indoor environments
- Maintains consistent postural support across settings
- Enables inclusive participation in outdoor and community activities



## 3. Intended user group

**Appropriate for individuals presenting with:**

- Reduced or absent independent sitting balance
- Moderate postural asymmetry (fixed or flexible)
- Kyphotic or scoliotic postural patterns
- Reduced endurance in unsupported sitting
- Sensory processing or regulation challenges
- Required for supported seating across multiple environments

## 4. Clinical rationale for prescription

### 4.1 Continuity of postural management across environments

**Children who require postural support indoors often experience reduced support outdoors, leading to:**

- Postural collapse or asymmetry
- Increased fatigue
- Reduced participation
- Inconsistent positioning strategies

**The Hilo Outdoor addresses this by providing:**

- Consistent seating and alignment across all environments
- Continuity in postural management throughout the day

### 4.2 Environmental access and inclusion

**Access to outdoor environments is essential for:**

- Social development
- Sensory integration
- Physical activity
- Emotional wellbeing

**Provision of an appropriate seating system enables:**

- Participation in school playground and outdoor learning
- Inclusion in family and community activities
- Equal access to environmental experiences

## 4.3 Terrain and mobility considerations

Standard indoor seating systems are not suitable for uneven or outdoor surfaces. The Hilo Outdoor is designed to:

- Traverse grass, paving, and uneven terrain
- Maintain stability and positioning during movement
- Enable safe and practical use across varied environments

## 5. Key clinical features and justification

### 5.1 Outdoor mobility base

Includes large rear wheels and a robust frame. Clinical purpose:

- Enables movement across uneven terrain
- Maintains stability for postural support
- Reduces environmental barriers to participation

### 5.2 Powered height adjustment (standard)

Clinical purpose:

- Enables rapid adjustment across environments
- Supports eye level interaction in dynamic settings
- Facilitates positioning for different activities (floor play, table work)
- Reduces physical demands on caregivers

### 5.3 Tilt in space (up to 35 °)

Clinical purpose:

- Supports fatigue management during prolonged sitting
- Maintains postural alignment during repositioning
- Assists with pressure redistribution
- Enables rest without transfer



## 5.4 Feet on floor positioning

Clinical purpose:

- Promotes active sitting and functional movement
- Supports transfers and transitional movements
- Encourages engagement with environment
- Provides sensory feedback through lower limbs

## 5.5 Postural support system

Includes:

- Pelvic positioning systems
- Adjustable back support
- Lateral supports (optional)
- Head support (optional)

Clinical purpose:

- Maintain alignment during activity
- Accommodate asymmetry
- Improve stability and endurance across environments



# 6. Functional outcomes

When appropriately prescribed, the Hilo Outdoor supports:

- Increased participation in outdoor community activities
- Improved sitting tolerance across longer periods
- Enhanced social interaction and inclusion
- Consistent postural support throughout the day
- Reduced fatigue and postural deterioration
- Improved quality of life for user and caregivers

## 7. Environmental and terrain considerations

The Hilo Outdoor is specifically indicated where:

- The user requires postural support beyond indoor environments
- Outdoor participation is currently limited due to lack of suitable seating
- Uneven terrain prevents use of standard activity seating
- There is a need for consistent seating across environments

Clinical justification for outdoor specification:

- Standard indoor systems do not provide adequate stability or mobility outdoors
- Inconsistent seating leads to reduced functional outcomes
- Provision of a multi-environment system improves participation and continuity of care

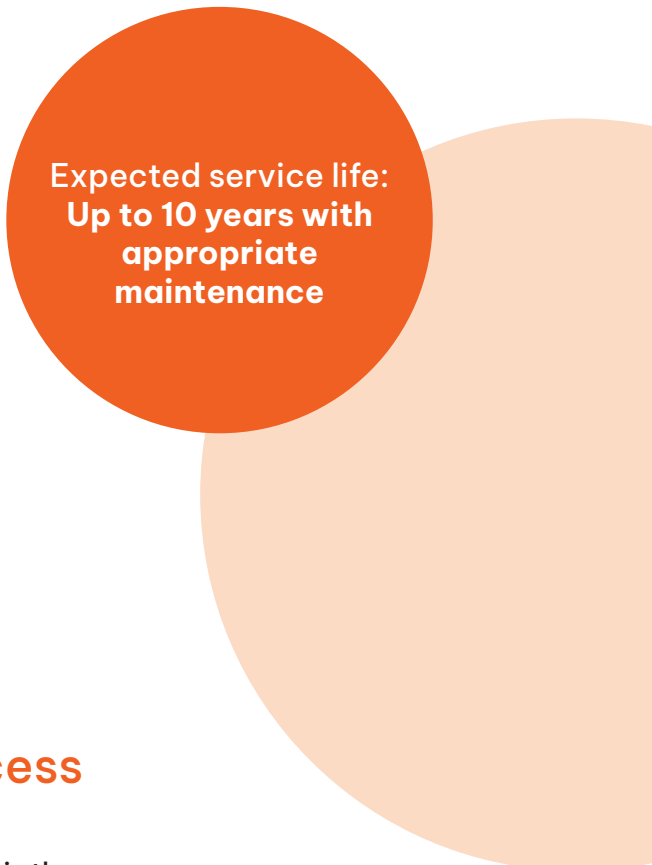
## 8. Growth and adaptability

The Hilo Outdoor offers:

- Multiple size options (XS-L)
- Adjustable seat dimensions
- Modular support components

This supports:

- Ongoing alignment as the child grows
- Adaptation to changing postural needs
- Long term equipment provision



Expected service life:  
Up to 10 years with  
appropriate  
maintenance

## 9. Assessment and prescription process

Provision follows a specialist clinical assessment, including:

- Postural assessment (pelvis, trunk, head)
- Functional and environmental assessment
- Evaluation of outdoor access needs
- Risk assessment (fatigue, posture, participation)

The chair is then:

- Individually configured
- Trialled where appropriate
- Adjusted for optimal performance across environments

## 10. Safety and transportation

- Crash tested to ISO 7176-19 standards
- Suitable for occupational transport when correctly secured

## 11. Configuration options

### Standard:

- Seat and back support system
- Pelvic positioning
- Configurable arm supports
- Outdoor mobility base



### Enhanced:

- Lateral supports
- Headrests
- Pommel system
- Harness configurations
- Lower limb positioning options
- Functional accessories (trays, mounts)



### Bespoke:

- Custom contouring
- Asymmetry accommodation
- Structural modifications
- Fully bespoke seating solutions



## 12. Summary for funding justification

The Hilo Outdoor Activity Wheelchair is clinically indicated for individuals requiring:

- A functional seating system for multi environment use
- Postural support during outdoor community activities
- A system that maintains alignment and participation across settings
- A complementary system to a primary mobility wheelchair

Provision of this system is expected to:

- Improve participation in outdoor and community activities
- Maintain consistent postural management
- Reduce fatigue and postural deterioration
- Support inclusion, development, and wellbeing



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