

31 July 2026

Hoist System Specification

Changing Places Facility

SEN Extension, Clarecastle National School
at
Clarecastle, Co. Clare

HLA

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Document Title	Hoist System Specification – Changing Places Facility, Clarecastle NS
Document Ref	2680-HLA-00-ZZ-SP-E-9001

Date	Edition/Rev	St	Originator	Checked	Approved
31.07.2026	First	Draft	RO'C	MK	MK

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1.0 Introduction and Scope

This specification has been prepared to set out the proposed overhead hoist (ceiling track hoist) system for the new Changing Places facility within the SEN extension to Clarecastle National School, Clarecastle, Co. Clare. The hoist serves the Changing Place room shown on Architects Drawing 2680-HLA-00-ZZ-DR-A-1101 Rev B – Proposed Extension Plan.

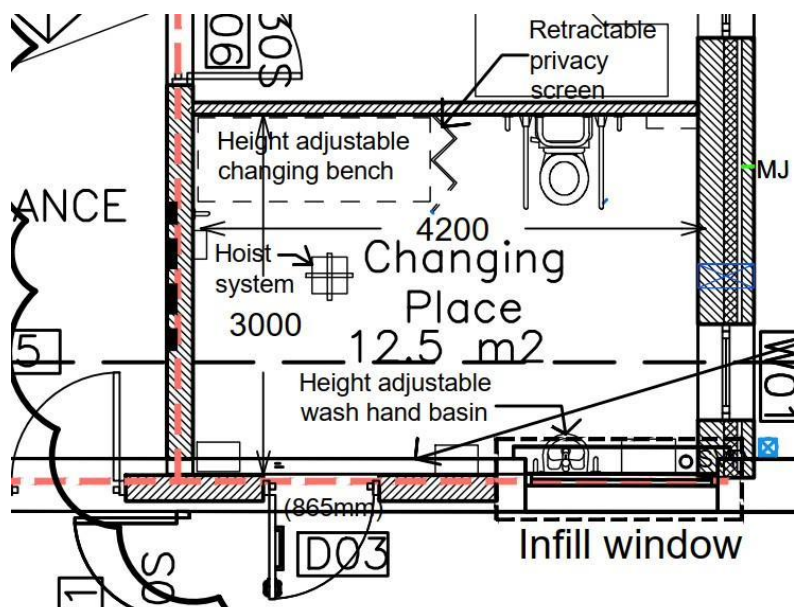
The purpose of this document is to record the area of coverage, the proposed E-Track wall-fixed system, the equipment schedule, and the installation and warranty requirements, so that the system can be tendered, ordered and installed in coordination with the wider extension works.

1.1 Documents Referenced

- Drawing 2680-HLA-00-ZZ-DR-A-1101 Rev B – Proposed Extension Plan, Clarecastle National School
- Proposed Specification 211A, Tirellan Heights – reference installation and door-connector detail, Elite Healthcare
- Elite Healthcare Quotation No. 3070656A dated 05-07-2022 – Luna Hoist Room to Room System (used to establish the equipment schedule; pricing not reproduced – see Section 6.0)
- Winnicare Nordic / Ergolet – Luna Overhead Lifting brochure (ceiling lift solutions)
- Screenshot of hoist location within the Changing Place room

2.0 Description of Works

The hoist is to be installed within the Changing Place room, a 12.5 m² room (approx. 4.2 m x 3.0 m internally) forming part of the SEN extension. The room accommodates a height-adjustable changing bench, a height-adjustable wash hand basin, WC, and a retractable privacy screen, as shown on the extract below.



Extract from Architects Drawing 2680-HLA-00-ZZ-DR-A-1101 Rev B – Changing Place room layout showing hoist system location

The area of coverage is to extend across the changing bench and through to the wash hand basin / WC area, allowing a pupil to be lifted from the bench and transferred within the room without manual handling.

2.1 Fixing Method

The proposed system is an E-Track wall-fixed hoist, and therefore there is no requirement for roof or ceiling supports. As the walls of the Changing Place room are of solid block construction (100/215 mm block, gypsum plaster both sides, per the Outline Specification on the extension drawing), the track is to be fixed at 600 mm centres using Fischer screw anchors. Should any wall be found to be of hollow block construction at survey stage, chemical fixings will be required in lieu, and this may incur additional cost.

On completion of installation, the system is to be weight tested to 300 kg (SWL x 1.5).

3.0 Reference Installation

Photographs of a comparable Luna E-Track installation to illustrate the finished appearance of the wall-fixed track, hoist unit and charging point. These are included for illustrative purposes only – the Clarecastle installation is a single-room system and does not include a door connector.



Reference installation – E-Track wall-fixed hoist unit

"quiet" corner in the room.



Reference installation – wall-mounted charger with docking station

4.0 Specification – Luna Overhead Hoist System

The proposed hoist unit is the Ergolet / Winnicare Luna overhead lift, as follows:

4.1 Luna Hoist Unit – Key Features

- Weight capacity of 200 kg (as specified for this project); also available in 275 kg and 400 kg
- Unit weighs only 6.7 kg (without spreader bar)
- Soft start and stop function
- Two handles for mounting the hoist
- Safety locking system with alarm
- Cart with pump wheels, quieter in operation than nylon wheels
- Cleanable surfaces
- Easy and quick to service
- All functions, including emergency stop, controlled through the hand control

Luna overhead hoist unit

Luna hoist in use with sling and spreader bar

4.2 Track System

The track is a 135 mm E-Track system, wall-fixed, sized to suit the 4.2 m x 3.0 m Changing Place room. The schedule comprises two fixed E-Track rails running the 4.2 m length of the room, with a 3.0 m traverse rail spanning between them, carried on an adjustable X-Y Smart Cart. This arrangement gives full coverage from the changing bench across to the wash hand basin / WC area.

4.3 Hand Control and Charger

The Luna hand control has an ergonomic design, push-button operation (not membrane), and an elastic hanger. It is IPX7 rated. All functions, including emergency stop, are operated through the hand control, and the unit is charged through the hand control via the wall-mounted charger, which shows a charging indicator.

The charger is to be mounted at approximately 1400 mm from floor level in a quiet corner of the room, per the manufacturer's recommendation. Where a charging point is required in a bathroom area, an IP-rated spur box is to be used.

Luna hand control and charger – product reference

5.0 Schedule of Equipment

The schedule below sets out the equipment items and quantities proposed for the Changing Place room installation, for a single-room E-Track system. Pricing has not been reproduced in this document and should be confirmed directly with the supplier at time of order.

Item Code	Description	Qty
E015-03026	Luna Overhead Hoist, 200kg SWL, IPX4, bayonet fitting, white	1
E015-03109	Hand Control, IPX7	1
E018-10110UK	Charger with docking station, IPX4, manual lowering	1
E016-01029	E-Track 135mm, 4.2m length (fixed rail)	2
E016-01004	Track 135mm, 3.0m length (traverse rail)	1
E016-02183	X-Y Smart Cart, 135mm traverse, adjustable	1
E016-01133	End Stop for E-Track	6
E016-01123	End Cover, E-Track, set of 2	3
LFIXINGS	Fixings for Luna Track (Fischer screw anchors)	1 set
INSTALL	Standard rate installation to a services-ready site, incl. weight test to 300kg (SWL x 1.5)	1

Note: a sling is required for use with the hoist but is excluded from the base specification, as this should be selected and approved separately to suit the needs of individual pupils.

6.0 Installation Requirements

- Site must be clear and accessible for installation, with access to power.
- Light fittings are to be kept relatively flush to the ceiling; depth to be confirmed prior to installation.
- A powerpoint is required for charging the hoist (IP-rated spur box if the charging point is located in a bathroom area).
- Installation charges assume a services-ready site, clear and accessible for the installer to work safely; additional days required due to the site not being ready will incur extra charges.
- Delivery lead time is typically 4–6 weeks for standard goods, or 6–12 weeks for non-standard goods, and should be confirmed at order stage.

- This specification is subject to confirmation by final site survey by the appointed supplier/installer.

7.0 Warranty

The hoist is under warranty for the first 12 months for parts and labour, excluding human error/damage, per the supplier's standard terms. The Luna hoist unit itself is separately covered by the manufacturer's 5-year warranty (Winncare Nordic / Ergolet). It will require a service after one year, and warranty terms applicable to this project should be confirmed in writing with the appointed supplier/installer at time of order.

8.0 General Notes

- All works to comply with current Building Regulations and all other statutory regulations, including relevant manual handling and lifting equipment regulations.
- No door connector or room-to-room transfer system is included, as the hoist serves the Changing Place room only.
- Sling provision is excluded from the base specification and should be selected and approved separately to suit the needs of individual pupils.
- This specification is subject to confirmation by final site survey by the appointed supplier/installer.