

SRE-5000 Elan Straight Rail Stairlift Technical Specifications

MODEL NUMBER: SRE-5000

ETL-INTERTEK C-US LISTED: CONTROL NUMBER: 4004689

PERFORMANCE STANDARDS:

PRIVATE RESIDENCE ONLY

ANSI/ASME: A18.1-2023 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts

CSA B44.1:25/ASME-A17.5-2025 Elevator and Escalator Electrical Equipment

MODEL NUMBER: SRE-5000CAN

ETL-INTERTEK EU LISTED: CONTROL NUMBER: 4004689

PERFORMANCE STANDARDS:

CSA B355:24 Platform lifts and stair lifts for barrier-free access

CSA B44.1:25/ASME-A17.5-2025 Elevator and Escalator Electrical Equipment

MODEL NUMBER: SRE-5000G

Self-certified to EN 81-40:2020

PERFORMANCE STANDARDS:

BS EN 81-40:2020 Safety rules for the construction and installation of lifts - special lifts for the transport of persons and goods Part 40: Stairlifts and inclined lifting platforms intended for persons with impaired mobility

The SRE-5000 Elan is NOT recommended for these types of users:

- 1) Those who use a scoot-pivot transfer from a wheelchair without weight bearing through their legs, whose full body weight is placed on a single stairlift armrest.
- 2) Those with leg weakness, during stand to sit transfer, whose knees buckle with uncontrolled lowering to the stairlift seat.

For the above type of users, the Bruno Elite is recommended.

RATED LOAD: 300 lb. (136 kg) maximum

NUMBER OF PASSENGERS: 1

POWER SOURCE: 24VDC comprised of 2 each 3.2AH 12-volt sealed maintenance-free lead acid batteries.

On/Off power switch to prevent battery drain over lengthy storage periods

CHARGER: 100-240VAC/1 A input, 24VDC/1 A output continuous monitoring, full primary cut off

DRIVE: 24VDC, 12A direct drive self-locking positive geared motor, 2-pole motor with right angle worm gear box (0.29 HP max.)

FINAL DRIVE: integrated 8dp gear rack on rail with a spur gear on the gearbox output shaft

MOTOR CONTROLLER: custom 24VDC PWM controller with acceleration ramping

BRAKING: dynamic motor braking through the motor controller, worm gear box, electro-mechanical motor brake and overspeed protection

CALL/SEND CONTROL: infrared wireless control; momentary switching requiring a user to continuously hold button, with line of sight to control unit

ARMREST CONTROL: 3-position, momentary paddle switch requiring user to continuously hold to control unit; switch mounted at end of armrest

SUPPORTS: clamps anchored to stair tread; normal rail position is 1.5" (38.1 mm) above step nose; number of clamps dependent on the length of rail; optional height-adjustable clamps available, rail position is 3.0" (76.2 mm) above step nose for folding rail applications

ANGLE: 22° to 52°

SPEED: Maximum top speed 21 ft/min (0.11 m/s); actual speed varies depending on rider's weight

LENGTH OF TRACK: 15 feet 6 inches (4.7 m) and 19 feet 8 inches (6.0 m) standard; dealer to cut to fit the actual length of the stair (see application guide)

TRACK CONSTRUCTION: Aluminum extruded rail with covered metal gear rack; bolted joint plate at each rail joint

FOOTREST: Folding footrest with safety sensor panel

SEAT: Padded, folding and swivel with stops at 0° (forward), 67° (top), and 90° (top); no swivel at lower landing; multiple-position seat height adjustments.

ARMRESTS: Fixed to seat frame; armrest may be individually rotated towards seat back for smaller profile when not in use and to facilitate transfers

SAFETY EQUIPMENT:

- 1) Seat swivel switch allowing operation only when chair is in center position
- 2) Carriage safety switches
- 3) Seat positioning belt (SRE-5000G and SRE-5000CAN with latch switch ONLY)
- 4) 25A manual reset breaker on motor control circuit
- 5) Normal terminal stop / slow down ramps at each end of rail
- 6) Terminal switches and top final terminal stop state
- 7) Full diagnostic alarm and LEDs on circuit board
- 8) Armrest safety switches to ensure barrier arms down to operate (SRE-5000G & SRE-5000CAN ONLY)
- 9) Overspeed protection against free fall or run-away conditions
- 10) Diagnostic/charging light on charger
- 11) 5A fuse on control circuits
- 12) Emergency manual carriage drive feature (SRE-5000G and SRE-5000CAN ONLY)
- 13) E-Stop switch and Alarm. (SRE-5000CAN ONLY)

BATTERY CAPACITY/POWER OUTAGE:

Cycles: variable depending on angle, length of run, ambient temperature, and rider weight
Batteries: between 12 and 24 hours if power is disconnected

WEIGHT OF UNIT:

153 lb. (69.4 kg) without rider in a typical 15'-9" (4.8 m) installation (packaged)

TESTING PERFORMED:

- 1) Life cycle testing with full rated load at 45° on a 15'-9" rail
- 2) Battery charger UL tested and listed to UL 1310
- 3) Repetitive tests performed to determine power outage cycling
- 4) Electrical discharge to ground testing
- 5) Overspeed brake freefall locking distance
- 6) EN 81-40 testing including EMC requirements (SRE-5000G ONLY)

OPTIONS:

- 1) Keyed call/send controls
- 2) Power swivel seat at top landing (up to 85° of rotation)
- 3) Power folding footrest
- 4) Manual folding rail
- 5) Power folding rail