SRE-3000 Elan Straight Rail Stairlift
Technical Specifications

MODEL NUMBER: SRE-3000
ETL-Intertek C-US Listed: Control Number: 4004689

PERFORMANCE STANDARDS:
PRIVATE RESIDENCE ONLY
ANSI/ASME: A18.1-2005 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A18.1-2008 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts
ANSI/ASME: A18.1-2011 (Sec. 7) Safety Standards for Platform Lifts and Stairway Chairlifts
CSA B613 Private Residence Lifts
ANSI/ASME: CSA B44.1/ASME-A17.5 Elevator and Escalator Electrical Equipment

RATED LOAD: 300 lb (136 kg) maximum

NUMBER OF PASSENGERS: 1

POWER SOURCE: 24VDC comprised of 2 each 3AH 12 volt sealed maintenance-free lead acid batteries;
On/Off power switch to prevent battery drain over lengthy storage periods

CHARGER: 120VAC/1.5 A input, 24VDC/1 A output continuous monitoring, full primary cut off

DRIVE: 24VDC, 16A direct drive self-locking positive geared motor, 2 pole rated 442 Lb-in (50Nm) torque,
25.5 rpm output speed, with right angle worm gear box (0.18 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: infra-red wireless control; momentary switching requiring a user to
continuously hold button to control unit

ARMREST CONTROL: 3-position, momentary rocker switch requiring user to continuously hold rocker
switch to control unit; switch mounted under armrest

SUPPORTS: clamps anchored to stair tread; normal rail position is 2” (50.8 mm) above step nose;
number of clamps dependent on the length of rail; optional height-adjustable clamps
available

ANGLE: 22 to 45 degrees (specials up to 52 degrees)

SPEED: maximum top speed 15 ft/min (0.08 m/s); actual speed varies depending on rider weight

LENGTH OF TRACK: 15 feet 9 inches (4.9 m) and 19 feet 8 inches (6.1 m) standard; dealer to cut to fit the
actual length of the stair (see application guide)

Bruno Independent Living Aids, Inc., 1780 Executive Drive, P.O. Box 84, Oconomowoc, WI 53066
Phone (800) 882-8183 Fax (262) 953-5501
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**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
4) 25A manual reset breaker on motor control circuit
5) final end stop bumper at each end of rail
6) final limit switch
7) full diagnostic alarms on circuit board
8) armrest safety switches to insure barrier arms down to operate
9) Overspeed protection against free fall or run away condition
10) charging light on charger
11) 5A fuse on control circuits

**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:**
185 lb (86 kg) without rider in a typical 15'-9'' (4.9 m) installation

**TESTING PERFORMED:**
1) Life cycle testing with full rated load at 45 degree on a 15'-9'' rail
2) battery charger UL tested and listed to UL 1310
3) self locking gear box statically tested with 2100lb (953kg)(7 times rated load) on a 45-degree rail for 5 minutes with no carriage movement; test performed at manufacturer’s location
4) repetitive tests performed to determine power outage cycling
5) electrical discharge to ground testing
6) Overspeed free fall testing for repeated usage

**OPTIONS:**
1) manual folding rail
2) powder-coated champagne paint