



## **SRE-2010 Elite Straight Rail Stairlift** **Technical Specifications**

Rev 2: 11-13-2012  
ILS-00826

**MODEL NUMBER:** SRE-2010 and SRE-2010C  
**CSA C-US Listed:** File Number 208135

**PERFORMANCE STANDARDS:**

ANSI/ASME: A18.1-1999 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2003 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2005 (Sec. 4 or 7) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2008 (Sec. 4 or 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:** 400 lb (181 kg) maximum

**NUMBER OF PASSENGERS:** 1

**POWER SOURCE:** 24VDC comprised of 2 each 7AH 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, 24VDC/2 A continuous monitoring, full primary cut off

**DRIVE:** 24VDC direct drive gear-motor, 2 pole rated .68 hp, 58:1 right angle self-locking worm gear box, 41.5 RPM on the output shaft of the gear box

**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, self-locking worm gear box, and electro-mechanical motor brake

**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:** (residential) adjustable from 0 to 45 degrees standard; custom to 50 degrees  
(commercial) adjustable from 30 to 45 degrees standard; custom to 50 degrees;  
contact Bruno Technical Service for low-angle applications.

**SPEED:** maximum top speed 25 ft/min (0.13 m/s); actual speed varies depending on rider weight

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**LENGTH OF TRACK:** 16 feet (4.9 m) and 20 feet (6.1 m) standard; dealer to cut to fit the actual length of the stair (see application guide); custom lengths available

**TRACK CONSTRUCTION:** aluminum extruded rail with covered steel gear rack; bolted joint plate at each rail joint

**FOOTREST:** folding footrest with safety sensor panel, adjustable height settings and handle actuator (standard only)

**SEAT:** padded, folding and swivel with stops at 45° (bottom), 0° (forward), 60° (top), and 90° (top); 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; width adjustment of armrests: 4" (102 mm)

**SAFETY EQUIPMENT:**

- 1) seat swivel switch allowing operation only when chair is in center position
- 2) carriage and footrest safety switches
- 3) retractable seat positioning belt
- 4) charging light (green) on carriage; charging light (amber) at each end of rail
- 5) 30A manual reset breaker on motor control circuit
- 6) 5A fuse on control circuits
- 7) final end stop bumper at each end of rail
- 8) final limit switch
- 9) full diagnostic interconnect circuit board

**BATTERY CAPACITY/POWER OUTAGE:**

cycles: variable depending on angle, length of run, ambient temperature and rider weight  
batteries: between 28 and 36 hours if power is disconnected

**WEIGHT OF UNIT:**

300 lb (136 kg) without rider in a typical 16 foot (4.9 m) installation

**TESTING PERFORMED:**

- 1) life cycle testing with full rated load at 45° on a 16 foot (4.9 m) rail
- 2) battery charger UL tested and listed to UL 1012
- 3) self-locking gear box statically tested with 3200 lb (1451 kg) (8 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

**OPTIONS:**

- 1) keyed call/send controls
- 2) keyed controls on chair arm
- 3) commercial package with overspeed safety brake and keyed controls on chair arm
- 4) power swivel seat at top landing (up to 90° of rotation)
- 5) power folding footrest
- 6) manual folding rail
- 7) power folding rail
- 8) larger seat
- 9) larger footrest

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