

Eclipse RESIDENTIAL ELEVATOR

Planning Guide

Applicable Codes:

ASME A17.1/CSA-B44 Safety Code for Elevators and Escalators Section 5.3 – Private Residential Elevators

> Part No. 000623 09-m10-2019

IMPORTANT NOTICE

This Planning Guide provides nominal dimensions and specifications useful for the initial planning of a project. Before beginning actual construction, make sure you have the installation (shop) drawings customized with specifications and dimensions for your specific project.

Lift configurations and dimensions are in accordance with our interpretation of the standards set forth by the codes listed on the front cover of this Planning Guide. Please consult Savaria or the authorized Savaria dealer in your area for more specific information pertaining to your project, including any discrepancy between referenced standards and those of any local codes or laws.

The dimensions and specifications in this Planning Guide are subject to change (without notice) due to product enhancements and continually evolving codes and product applications.

Visit our website **www.savaria.com** for the most current Eclipse drawings and dimensions.

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Purpose of this guide

This guide assists architects, contractors, and lift professionals to incorporate the Eclipse Residential Elevator into a residential building design. The design and manufacture of the Eclipse Residential Elevator meets the requirements of the following codes and standards:

- ASME A17.1/CSA B44 2000, Section 5.3
- ASME A17.1/CSA B44 2004, Section 5.3
- ASME A17.1 2004, Addendum 2005, Section 5.3
- ASME A17.1/CSA B44 2007, Section 5.3
- ASME A17.1/CSA B44, Addendum 2008, Section 5.3
- ASME A17.1/CSA B44 2010, Section 5.3
- ASME A17.1/CSA B44 2013, Section 5.3
- ASME A17.1/CSA B44 2016, Section 5.3
- ASME A17.1 1996, Part 5

We recommend that you contact your local authority having jurisdiction to ensure that you adhere to all local rules and regulations pertaining to residential elevators.

How to use this guide

- 1 Determine your client's intended use of the lift.
- 2 Determine the local code requirements.
- **3** Determine the site installation parameters.
- 4 Determine the cab type and hoistway size requirements.
- NOTE: If the Eclipse has Auto Slim Doors, do not refer to the tables on pages 6 and 7; refer to Appendix A. 5 Plan for electrical requirements.

Revision history of this guide

April 2, 2008 – Added rail forces

July 31, 2008 – Added rail forces diagram

January 8, 2008 – Added component weights to specifications; modified center of door for type 5 center June 4, 2009 – Added WARNING on page 6 not to install pipes conveying steam, gas or liquid in the hoistway June 23, 2009 – Added dimension to structural view drawing Figure 1-11 on page 8

September 25, 2009 – Corrected power supply and lighting supply specifications on pages 2, 12, 13 and 14 February 9, 2010 – Added recommended manufacturers for circuit breakers at the distribution panel on page 12 March 31, 2010 - Corrected Type 3 cab measurements on page 4; Corrected Type 4 cab measurements on page 5 September 9, 2010 – Added note at bottom of tables on pages 4 and 5; Corrected Type 5 cab measurements on page 5; Corrected controller and brake resistor dimensions on page 13 February 23, 2011 – Added note to step 4 above under "How to use this guide"; Reformatted specifications table on

pages 4 and 5; Added "Auto slim doors" to "Options" in specification table on page 5; Updated IMPORTANT note at bottom of pages 6 and 7; Added Appendix A with Auto Slim Doors planning information

April 25, 2011 – Updated standard features and options in specifications table on pages 4 and 5; Updated Auto Slim Door entrance assembly and elevation drawings in Appendix A

July 20, 2011 – Updated to 6 stops in specifications table on page 4

August 12, 2011 – Revised Slim Door drawings on pages 18 and 19 August 24, 2011 – Removed 208V reference throughout manual

September 15, 2011 – Revised Slim Door drawings on pages 18 and 19

- October 11, 2011 Clarified the meaning of "centerline" in the drawings on pages 10 and 11 October 21, 2011 Corrected the "Center of door B" dimensions in Tables for Type 3 and Type 4 cabs on pages 6 and 7

August 30, 2012 – Revised slim door drawings on pages 20 - 30

October 9, 2012 – Removed motor brake resistor from drawing on page 15

November 6, 2012 – Added door recommendation on page 13

December 3, 2012 - Revised note at bottom of Electrical Requirements on page 14

February 21, 2013 - Changed pot lights from incandescent to halogen in specifications table on page 4

April 25, 2013 - Revised options in specifications table on page 5

July 8, 2013 – Added Noise Level to specifications table on page 4

October 21, 2013 - Revised power supply info in specs table on page 4 and electrical requirements on page 14

March 13, 2014 – Revised specifications table on pages 4 and 5 April 29, 2014 – Revised "rough opening" dimension in drawings on pages 18, 20, 22, 24, 26, 28, and 30; Changed "Minimum Overhead" spec on page 4 from 114" to 112" for 96" cab

August 29, 2014 - Added controller box dimensions on page 16

November 5, 2014 – Revised Applicable codes on page 3

March 4, 2015 - Revised drawing on page 15

August 31, 2015 – Revised load capacity spec on page 4

September 24, 2015 – Added Daily Cycle to specifications table on page 4

March 2, 2016 – Removed copyright from cover page; Savaria Corporation back to Savaria Concord Lifts, Inc.

June 15, 2016 - Revised electrical requirements on page 14

January 25, 2017 – Added new code on page 3; Revised specs table on pages 4 and 5; Added new 3/4 & 4 safety rule and moved safety rules to pages 6 to 9

February 9, 2017 – Added spec for distance between landings to specs table on page 4

March 14, 2017 – Revisions throughout; page layout change for bi-fold door and small auto slim door cab plan views May 29, 2017 - Revised cab width in tables on pages 10 and 11 (cabs with panel-fold doors)

March 14, 2018 - Revised pit depth to 8" on pages 4 and 27

July 10, 2018 – Revised overhead for bi-fold doors to 96" on page 13

August 1, 2018 – Revised forces on pages 4 and 30 April 22, 2019 – Removed reference to "vanes" in drawings on pages 13 and 18

June 26, 2019 - Added P/N for measuring tool on page 8

July 12, 2019 - Revised overhead for auto slim doors to 100" (pages 4 and 18)

October 9, 2019 - Revised specifications table on page 5

Eclipse specifications

| Specification type | Specification data | | | | | | |
|--|--|--|--|--|--|--|--|
| Load capacity | Standard 750 lbs. (341 kg), 950 lbs. (431 kg), and 1000 lbs. (454 kg) | | | | | | |
| Component weights | 367 lbs sling and base rail section 170 lbs middle rail Variable weight - top rail/bed plate 600 lbs control wall stack (variable) 440 to 660 lbs. cab (+ 263 lbs. speedy sling) 100 lbs. motor drive 50 lbs. controller 2 lbs. per foot chain (two runs) | | | | | | |
| Rail forces | RAIL FORCES RAIL FORCES RI R1 R2 PRODUCT 422 lobf. 251 lobf. Store Eclipse 304 lobf. 194 lobf. RAIL. VEIGHT + 80 los / #t FOR TOTAL PULL-DUT PORCE DN RAIL BRACKET, RI MUST BE DOUBLED ep. 608 lobf for Eclipse | | | | | | |
| Rated speed | 40 fpm (0.20 mps) standard. | | | | | | |
| Power supply (circuit by others) | 230 volt, single phase, 60 Hz, 30-Amp fused disconnect box with 20-Amp fuse | | | | | | |
| Lighting supply (circuit by others) | 120 volt, 60 Hz, 2 amps (consumption) | | | | | | |
| Drive system | Automatic 2HP-geared roller chain variable frequency drive, complete with counterweight | | | | | | |
| Distance between two landings | 7″ (178 mm) minimum | | | | | | |
| Temperature operating range | - 10°C to + 40°C / 14°F to 104°F | | | | | | |
| Noise level (for typical installation) | 68.2 dBA (up direction); 65.1 dBA (down direction) Measured at a height equal to motor, distance of 1m, in front of motor, no hoistway | | | | | | |
| Daily cycle | Normal: 40 Heavy: 80 Excessive: 150 Maximum starts in 1 hour on standard installation: 20 NOTE: Please consult your Sales Representative if there a chance you may exceed these amounts. | | | | | | |
| Cab size | W36" x L48" x H80" (914 mm x 1219 mm x 2032 mm), Type 1, 2, 3, 4, 5 W36" x L54" x H80" (914 mm x 1371 mm x 2032 mm), Type 1, 2, 3, 4, 5 W36" x L60" x H80" (914 mm x 1524 mm x 2032 mm), Type 1, 2, 3, 4, 5 W40" x L54" x H80" (1067mm x 1371 mm x2032 mm), Type 1, 2, 3, 4, 5 | | | | | | |
| Cab panel and finish | Solid melamine or MDF panels (standard), unfinished oak veneer panels (optional), finished recessed veneer panels (optional), solid hardwood raised panels (optional) | | | | | | |
| Maximum travel | 50 feet (12.24 m) - 60 feet (18.29 m) available where code permits | | | | | | |
| Control system | Relay logic controller complete with diagnostic LEDs | | | | | | |
| Levels and openings | Up to 6 stops / up to 2 cab openings | | | | | | |
| Pit depth requirement | 8″ (152 mm) minimum 11" (279 mm) minimum with buffer springs | | | | | | |
| Minimum overhead clearance | 96" (2438 mm) for standard 80" cab 100" (2540 mm) for 84" cab 112" (2896 mm) for 96" cab 100" (2540 mm) for units with auto slim doors | | | | | | |

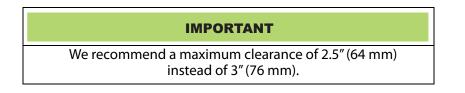
Eclipse specifications (continued)

| Specification type | Specification data |
|---------------------------------------|---|
| Hall station and control panel finish | Clear or bronze anodized aluminum (standard), or stainless steel (optional), or brass (optional), or architect white (optional) Rectangular (standard) or oval (optional) hall stations, keyless (standard) or keyed (optional) |
| Standard features | Automatic cab on/off lighting Recessed gate pocket Digital display in car operating panel Clear or bronze anodized aluminum cab entrance trim and handrail Data plates, capacity tags Proximity floor selection, stopping and two-way levelling Motor access cover (locked and switched) Home landing feature Plan drawings Modular rail sections Unfinished plywood sub-floor White ceiling with four LED lights MDF cab with or without finish, melamine cab in choice of finishes Stainless steel, clear or bronze anodized aluminum cab operating panel and hall call stations |
| Safety features | Cab gate safety switch Pit run/stop switch and car top run/stop switch Emergency stop and alarm buttons Uninterruptible power supply (UPS)/battery back-up system for lowering, automatic gate operation (if equipped), and electrical interlock operation and lighting in the event of a power failure Upper and lower terminal limits Final limit switch Mechanical rail shoring blocks Sling: factory pre-assembled speedy sling c/w pre-set slack chain safety brake and switch |
| Options | Custom cab size 96" (2438 mm) high cab; 84" (2133 mm) high cab Rated speed - (50 fpm (0.250 mps) available where code permits) Accordion car gate (choice of style) Automatic gate operator Bi-fold doors Automatic swing landing door operator Buffer springs (11" pit depth minimum) Interlocks for doors by others and Savaria landing doors (fire rated door or wood door) Keyed on/off control panel and hall stations Optional cab finishes: raised hardwood, unfinished veneer Optional fixture finishes: brass #4 finish or blackened stainless steel (handrail, cab operating panel, hall call stations); hall call stations available in rectangular or oval Telephone cabinet to match trim Automatic slim doors Digital position indicator (PI) in hall calls |

Safety first – 3 & 5 rule (code prior to 2016)

The ASME A17.1/CSA-B44–Safety Code for Elevators and Escalators (**PRIOR TO 2016**) mandates the following maximum hoistway door clearances (see drawing on next page).

• Clearance between the hoistway side of the landing door and the edge of the landing sill shall not exceed 3" (76 mm).

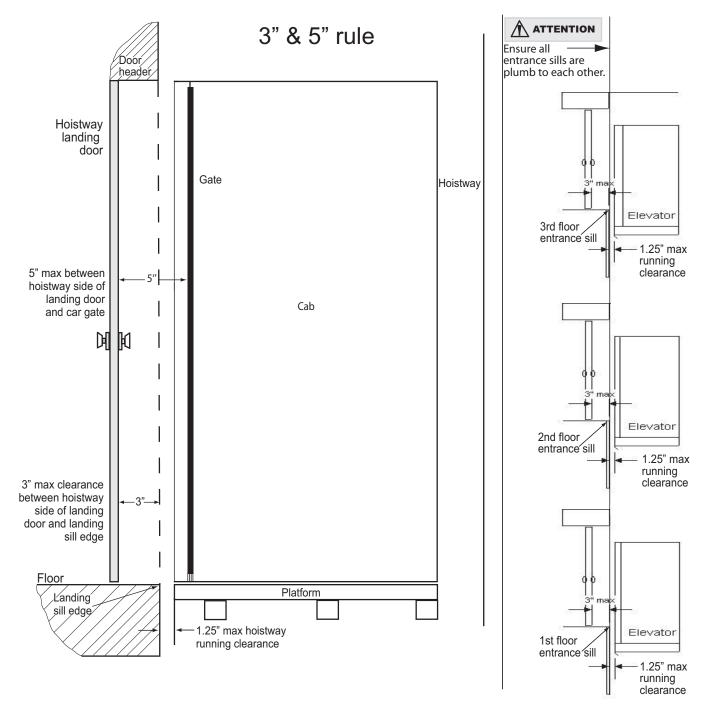


- Distance between the hoistway face of the landing door or gate and the car door or gate shall not exceed 5" (127 mm).
- Eclipse Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

NOTE: Concrete block/masonry shafts and some commercial metal door frames often create 3 & 5 rule violations.

Recommendation: We recommend installation of a solid door as hollow doors do not respect the pull-out force required by code for the door locks.

3 & 5 rule (code prior to 2016)



Safety first - 3/4 & 4 rule (code 2016 and after)

The ASME A17.1-2016/CSA B44-16 Safety Code for Elevators and Escalators (2016 AND AFTER) mandates the following maximum hoistway door clearances (see drawing on next page):

- Clearance between the hoistway side of the landing door and the edge of the landing sill shall not exceed 0.75" (19 mm) for swing doors (shown below) and 2.25" (57 mm) for sliding doors.
- Distance between the hoistway side of the landing door or gate and the car door or gate shall not exceed 4" (102 mm). A measuring tool for this is shown below.
- Eclipse Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

NOTE: Concrete block/masonry shafts and some commercial metal door frames often create 3/4 & 4 rule violations.

Recommendation: We recommend installation of a solid door as hollow doors do not respect the pull-out force required by code for the door locks.

IMPORTANT

- If the landing door has a pattern on the hoistway side, measure the 3/4" setback from the deeper part of the door to the landing sill.
- For accordion (panel fold) gates, you MUST have flush doors (not the 3/4" setback).
- 3/4" setback is possible only when the car doors are bi-fold or slim doors.

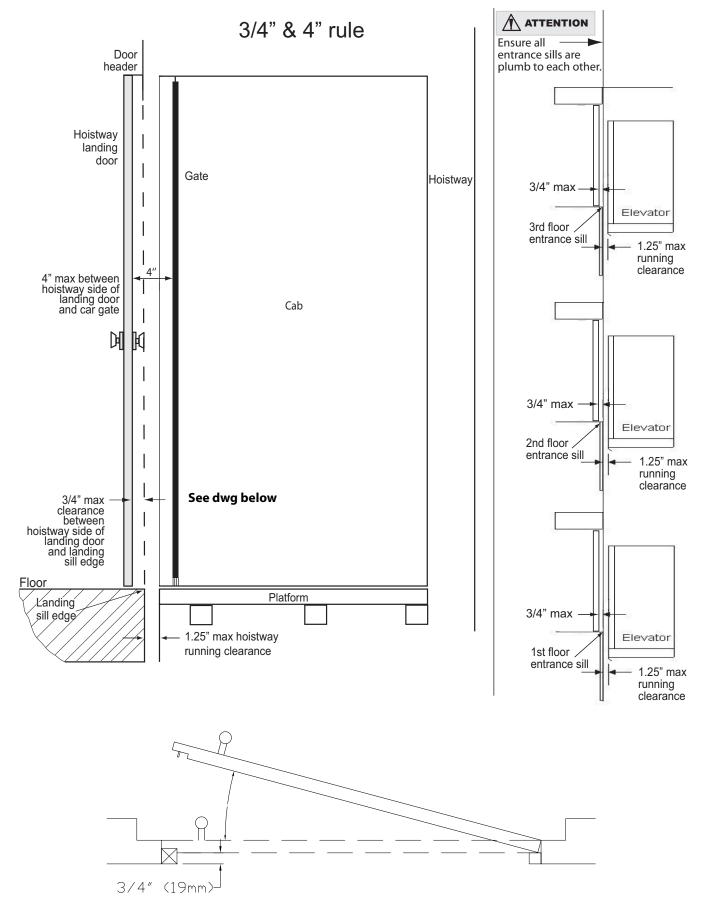
Measuring tool for accordion car gate and landing door (3/4 & 4 rule)



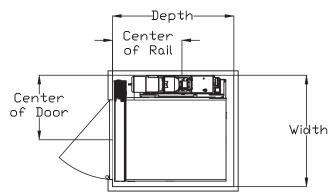
With the measuring tool pressed into the "V" of the accordion car gate, the hoistway side of the landing door must not be more than 4" (102 mm) as shown.

Measuring Tool P/N 301803

3/4 & 4 rule (code 2016 and after)



Type 1L (panel-fold doors)

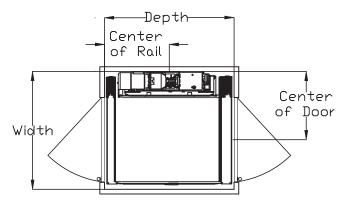


Type 1 left hand

| Cab size | Width | Depth | Center of rail | Center of door | Clear opening |
|-------------|--------------------------------|-------|-------------------|--------------------------------|------------------|
| 36 x 48 | $50\frac{1}{2}$ | 55 | 31* | 29 ¹ / ₄ | 36 |
| 36 x 54 | $50\frac{1}{2}$ | 61 | 33 | 29 ¹ / ₄ | 36 |
| 36 x 60 | 50 ¹ / ₂ | 67 | 36 | 29 ¹ / ₄ | 36 |
| 40 x 54 | 54 ¹ / ₂ | 61 | 33 | 33 ¹ / ₄ | 36 |

Note: * 30" if right hand motor

Type 2 (panel-fold doors)

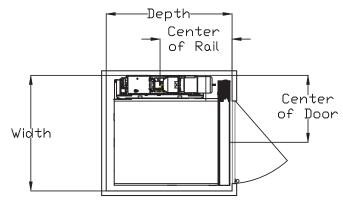


Type 2

| Cab size | Width | Depth | Center of rail | Center of door | Clear opening |
|-------------|--------------------------------|-----------------|--------------------------------|--------------------------------|------------------|
| 36 x 48 | $50_{\frac{1}{2}}$ | $55\frac{1}{2}$ | $27\frac{3}{4}$ | $29\frac{1}{4}$ | 36 |
| 36 x 54 | $50\frac{1}{2}$ | $61\frac{1}{2}$ | 30 ³ / ₄ | 29 ¹ / ₄ | 36 |
| 36 x 60 | 50 ¹ / ₂ | $67\frac{1}{2}$ | $33\frac{3}{4}$ | 29 ¹ / ₄ | 36 |
| 40 x 54 | $54\frac{1}{2}$ | $61\frac{1}{2}$ | $30_{\frac{3}{4}}$ | $33_{\frac{1}{4}}$ | 36 |

Note: All measurements in inches (").

Type 1R (panel-fold doors)

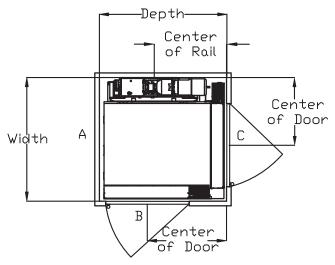


Type 1 right hand

| Cab size | Width | Depth | | Center of door | Clear opening |
|-------------|--------------------------------|-------|-----|--------------------------------|------------------|
| 36 x 48 | $50_{\frac{1}{2}}$ | 55 | 31* | $29\frac{1}{4}$ | 36 |
| 36 x 54 | 50 ¹ / ₂ | 61 | 33 | 29 ¹ / ₄ | 36 |
| 36 x 60 | 50 ¹ / ₂ | 67 | 36 | 29 ¹ / ₄ | 36 |
| 40 x 54 | $54\frac{1}{2}$ | 61 | 33 | $33\frac{1}{4}$ | 36 |

Note: * 30" if left hand motor

Type 3 (panel-fold doors)

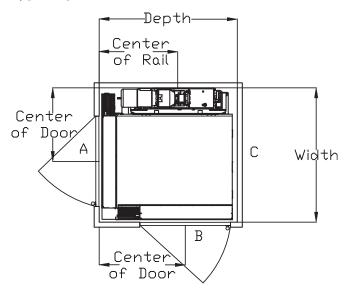


Type 3

| Cab size | Width | Depth | Center of rail | Center of door C | Center of door B | Clear opening C | Clear opening B |
|-------------|--------------------------------|-------|-------------------|--------------------------------|---------------------|--------------------|--------------------|
| 36 x 48 | 52 ⁵ / ₈ | 55 | 31 | 27 7 8 | $34\frac{1}{4}$ | 34 <u>5</u> | 36 |
| 36 x 54 | 52 ⁵ / ₈ | 61 | 33 | 27 ⁷ / ₈ | $38\frac{3}{4}$ | $34\frac{5}{8}$ | 36 |
| 36 x 60 | 52 ⁵ / ₈ | 67 | 36 | 27 ⁷ 8 | $46\frac{1}{4}$ | $34\frac{5}{8}$ | 36 |
| 40 x 54 | 56 <u>5</u> | 61 | 33 | 31 7 8 | $38\frac{3}{4}$ | 36 | 36 |

IMPORTANT: Measurements in the above tables are only valid for the cab and hoistway sizes listed. For non-standard cab and/or hoistway sizes, always refer to your plan drawings.

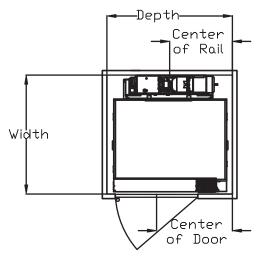
Type 4 (panel-fold doors)



Type 4

| Cab size | Width | Depth | | | Center of door B | | Clear opening B |
|-------------|-----------------|-------|----|----------------------|---------------------|----------------------|--------------------|
| 36 x 48 | $52\frac{5}{8}$ | 55 | 31 | 27 <mark>7</mark> | $34\frac{1}{4}$ | 34 ⁵ 8 | 36 |
| 36 x 54 | $52\frac{5}{8}$ | 61 | 33 | 27 7 8 | $38\frac{3}{4}$ | 34 5 8 | 36 |
| 36 x 60 | $52\frac{5}{8}$ | 67 | 36 | 27 $\frac{7}{8}$ | $46\frac{1}{4}$ | 34 ⁵ 8 | 36 |
| 40 x 54 | $56\frac{5}{8}$ | 61 | 33 | 31 7 | $38\frac{3}{4}$ | 36 | 36 |

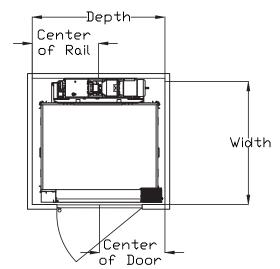
Type 5L (panel-fold doors)



Type 5: left hand

| Cab size | Width | Depth | | Center of door | |
|-------------|--------------------------------|-------|--------------------|--------------------------------|----|
| 36 x 48 | 52 ⁵ / ₈ | 55 | $27\frac{1}{2}$ | $33_{\frac{1}{4}}$ | 36 |
| 36 x 54 | 52 ⁵ / ₈ | 61 | $30_{\frac{1}{2}}$ | 39 ¹ / ₄ | 36 |
| 36 x 60 | 52 ⁵ / ₈ | 67 | $33\frac{1}{2}$ | $45_{\frac{1}{4}}$ | 36 |
| 40 x 54 | 56 <u>5</u> | 61 | $30_{\frac{1}{2}}$ | $39_{\frac{1}{4}}$ | 36 |

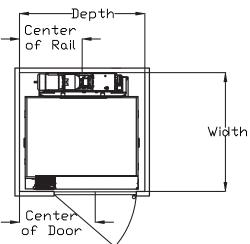
Type 5 center (panel-fold doors)



Type 5 center

| Cab size | Width | Depth | | Center of door | |
|-------------|--------------------------------|--------------------------------|-----------------|-------------------|----|
| 36 x 48 | 52 ⁵ / ₈ | $56\frac{1}{4}$ | $28\frac{1}{8}$ | 29 | 36 |
| 36 x 54 | 52 ⁵ / ₈ | 62 ¹ / ₄ | $31\frac{1}{8}$ | 29 | 36 |
| 36 x 60 | 52 ⁵ / ₈ | $68\frac{1}{4}$ | 34 <u>1</u> | 34 <u>5</u> | 36 |
| 40 x 54 | 56 ⁵ 8 | $62\frac{1}{4}$ | $31\frac{1}{8}$ | 29 | 36 |

Type 5R (panel-fold doors)



Type 5: right hand

| Cab size | Width | Depth | | Center of door | |
|-------------|--------------------------------|-------|--------------------|--------------------|----|
| 36 x 48 | 52 ⁵ / ₈ | 55 | $27\frac{1}{2}$ | $33\frac{1}{4}$ | 36 |
| 36 x 54 | 52 <u>5</u> | 61 | $30_{\frac{1}{2}}$ | 39 ₁ /4 | 36 |
| 36 x 60 | 52 <u>5</u> | 67 | $33\frac{1}{2}$ | $45\frac{1}{4}$ | 36 |
| 40 x 54 | 56 ⁵ 8 | 61 | $30_{\frac{1}{2}}$ | 39 ₁ /4 | 36 |

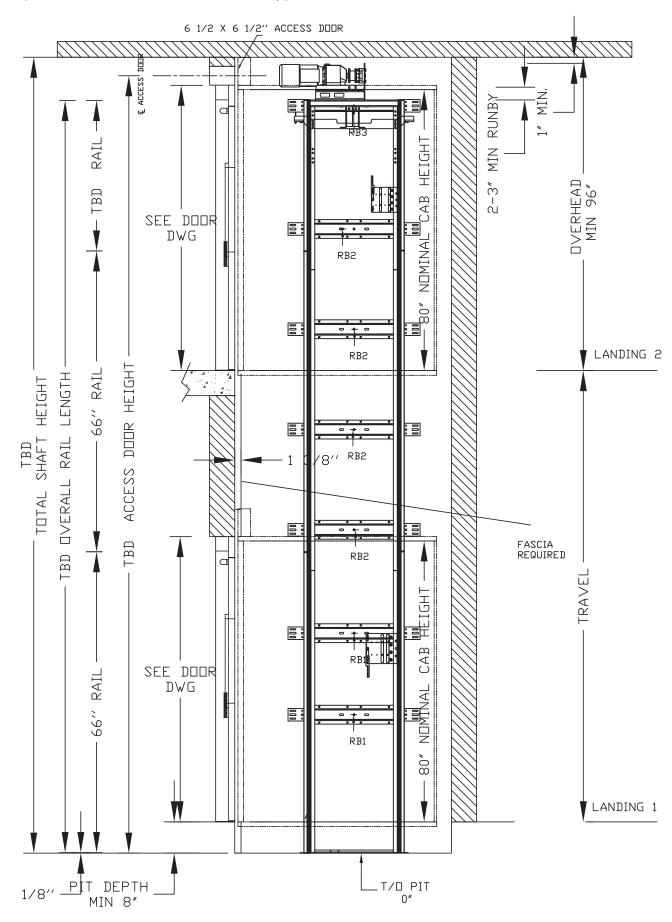
IMPORTANT: Measurements in the above tables are only valid for the cab and hoistway sizes listed. For non-standard cab and/or hoistway sizes, always refer to your plan drawings.

Eclipse with bi-fold doors

Bi-fold doors entrance assembly

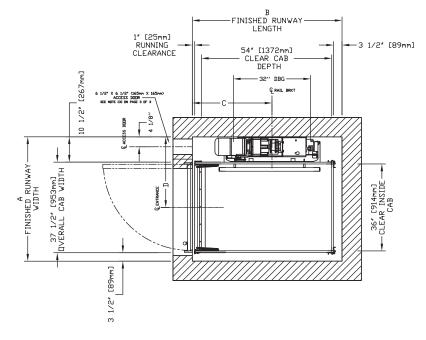


NOTE: Bi-fold doors available in size 36"x80", white and stainless. Not available for 90 degrees.



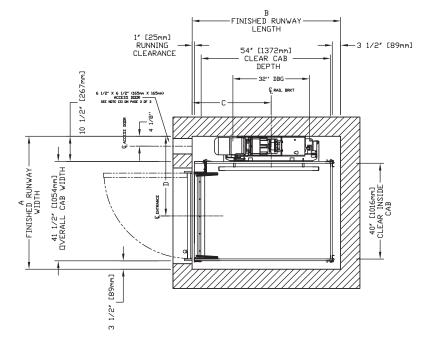
Sample elevation view – bi-fold doors (Type 1L shown)

Type 1L (bi-fold doors) - 36" cab width



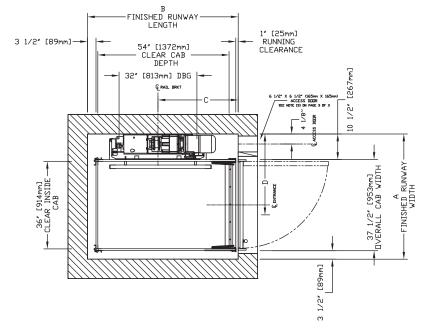
| CLEAR INSIDE CAB WIDTH | | CLEAR INSIDE CAB LENGTH | | A FINISHED RUNWAY WIDTH | | B FINISHED RUNWAY LENGTH | | C RAIL CENTER LINE | | D DOOR CENTER LINE | |
|---------------------------|--------|----------------------------|----|-------------------------------|--------|--------------------------------|--------|--------------------------|--------|--------------------------|--------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 914 | 36 | 1219 | 48 | 1308 | 51 1/2 | 1422 | 56 | 762 | 30 | 743 | 29 1/4 |
| 914 | 36 | 1372 | 54 | 1308 | 51 1/2 | 1575 | 62 | 838 | 33 | 743 | 29 1/4 |
| 914 | 36 | 1524 | 60 | 1308 | 51 1/2 | 1727 | 68 | 914 | 36 | 743 | 29 1/4 |

Type 1L (bi-fold doors) - 40" cab width



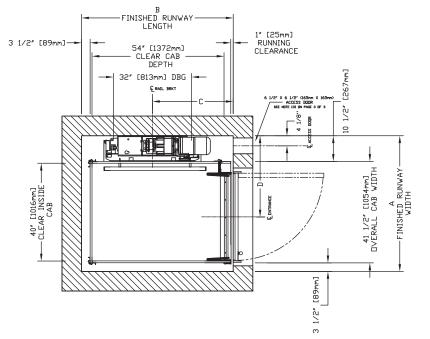
| CLEAR INSIDE CAB WIDTH | | CLEAR INSIDE CAB LENGTH | | A FINISHED RUNWAY WIDTH | | B FINISHED RUNWAY LENGTH | | C RAIL CENTER LINE | | D DOOR CENTER LINE | |
|---------------------------|--------|----------------------------|----|-------------------------------|--------|--------------------------------|--------|--------------------------|--------|--------------------------|--------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 1016 | 40 | 1219 | 48 | 1410 | 55 1/2 | 1422 | 56 | 762 | 30 | 845 | 33 1/4 |
| 1016 | 40 | 1372 | 54 | 1410 | 55 1/2 | 1575 | 62 | 838 | 33 | 845 | 33 1/4 |
| 1016 | 40 | 1524 | 60 | 1410 | 55 1/2 | 1727 | 68 | 914 | 36 | 845 | 33 1/4 |

Type 1R (bi-fold doors) - 36" cab width



| 100 C 100 C | NINSIDE WIDTH | CLEAR CAB LE | 0.00000 | 1,10,000 | A SHED Y WIDTH | FINI | B SHED Y LENGTH | | C AIL ER LINE | | D DOR ER LINE |
|-------------|------------------|-----------------|---------|----------|----------------------|------|-----------------------|-----|---------------------|-----|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 914 | 36 | 1219 | 48 | 1308 | 51 1/2 | 1422 | 56 | 762 | 30 | 743 | 29 1/4 |
| 914 | 36 | 1372 | 54 | 1308 | 51 1/2 | 1575 | 62 | 838 | 33 | 743 | 29 1/4 |
| 914 | 36 | 1524 | 60 | 1308 | 51 1/2 | 1727 | 68 | 914 | 36 | 743 | 29 1/4 |

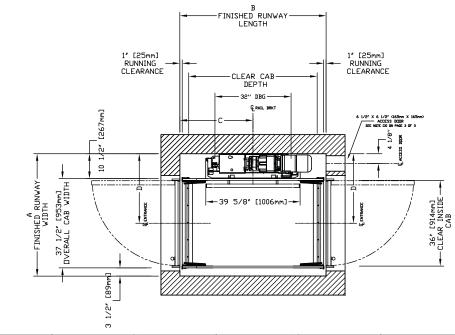
Type 1R (bi-fold doors) - 40" cab width



| | NSIDE | CLEAR CAB LE | | | A SHED Y WIDTH | | B SHED Y LENGTH | | C AIL ER LINE | | D DOR ER LINE |
|------|--------|-----------------|----|------|----------------------|------|-----------------------|-----|---------------------|-----|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 1016 | 40 | 1219 | 48 | 1410 | 55 1/2 | 1422 | 56 | 762 | 30 | 845 | 33 1/4 |
| 1016 | 40 | 1372 | 54 | 1410 | 55 1/2 | 1575 | 62 | 838 | 33 | 845 | 33 1/4 |
| 1016 | 40 | 1524 | 60 | 1410 | 55 1/2 | 1727 | 68 | 914 | 36 | 845 | 33 1/4 |

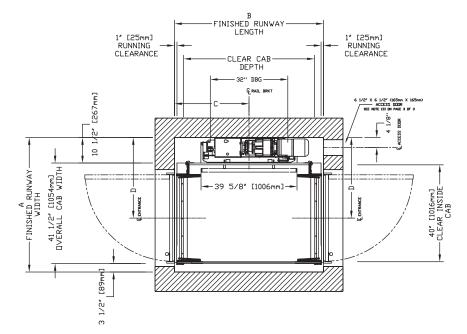


Type 2 (bi-fold doors) - 36" cab width



| _ | NSIDE | CLEAR CAB LE | | | A SHED Y WIDTH | 1.00000 | B SHED Y LENGTH | | C AIL ER LINE | | d Dor Er line |
|-----|--------|-----------------|----|------|----------------------|---------|-----------------------|-----|---------------------|-----|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 914 | 36 | 1219 | 48 | 1308 | 51 1/2 | 1410 | 55 1/2 | 705 | 27 3/4 | 743 | 29 1/4 |
| 914 | 36 | 1372 | 54 | 1308 | 51 1/2 | 1562 | 61 1/2 | 781 | 30 3/4 | 743 | 29 1/4 |
| 914 | 36 | 1524 | 60 | 1308 | 51 1/2 | 1715 | 67 1/2 | 857 | 33 3/4 | 743 | 29 1/4 |

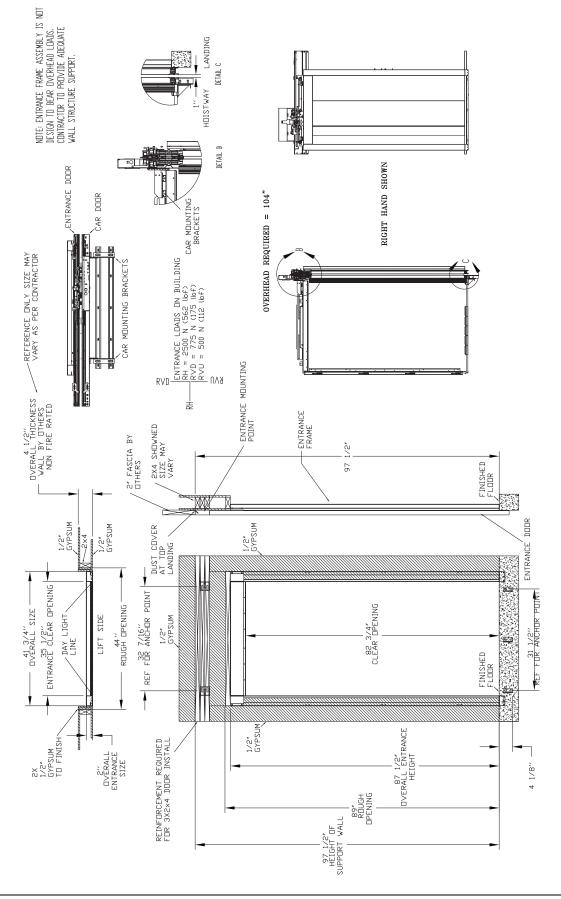
Type 2 (bi-fold doors) - 40" cab width

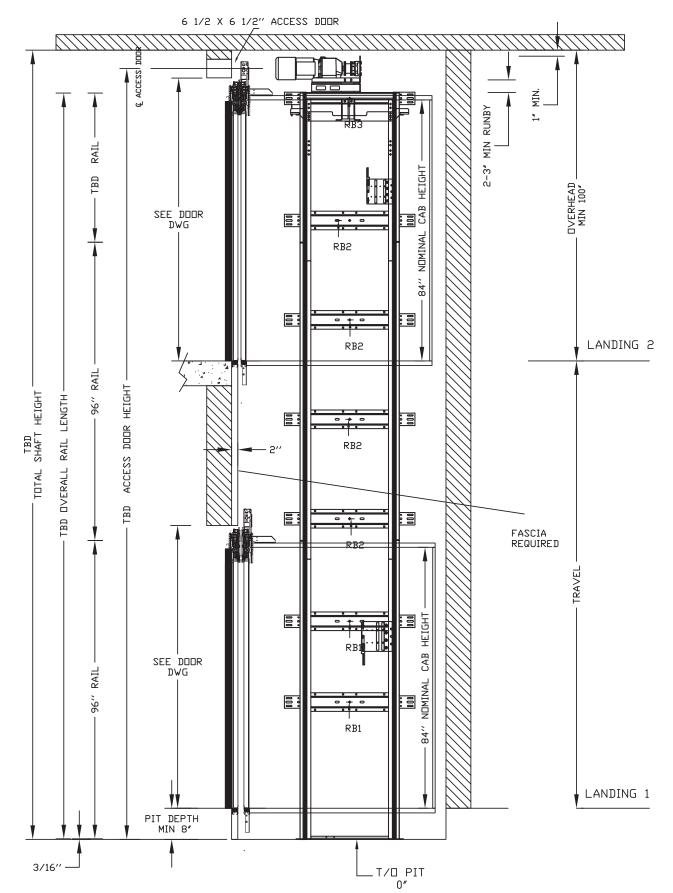


| 202 T. S. S. | INSIDE WIDTH | CLEAR CAB LE | | FINE | A SHED Y WIDTH | | B SHED (LENGTH | R | C AIL ER LINE | | D DOR ER LINE |
|--------------|-----------------|-----------------|----|------|----------------------|------|-----------------------|-----|---------------------|-----|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 1016 | 40 | 1219 | 48 | 1410 | 55 1/2 | 1410 | 55 1/2 | 705 | 27 3/4 | 845 | 33 1/4 |
| 1016 | 40 | 1372 | 54 | 1410 | 55 1/2 | 1562 | 61 1/2 | 781 | 30 3/4 | 845 | 33 1/4 |
| 1016 | 40 | 1524 | 60 | 1410 | 55 1/2 | 1715 | 67 1/2 | 857 | 33 3/4 | 845 | 33 1/4 |

Eclipse with auto slim doors (35.5" opening)

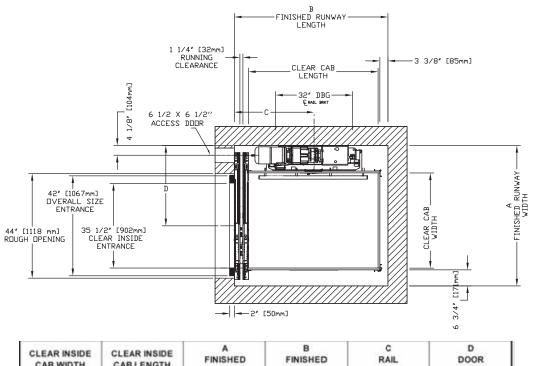
Auto slim doors entrance assembly, CO = 2100





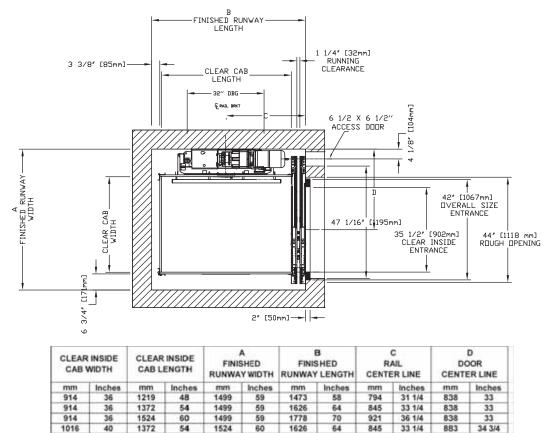
Sample elevation view – auto slim doors (Type 1L shown)

Type 1L (auto slim doors) - 35.5" opening

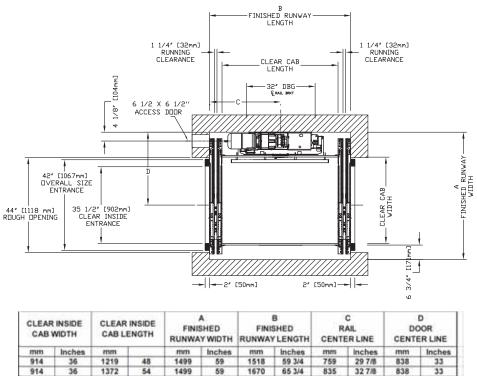


| | NINSIDE | | ENGTH | 100000 | A SHED VY WIDTH | | B SHED Y LENGTH | | G AIL ER LINE | 1.1.1 | D DOR ER LINE |
|------|---------|------|--------|--------|-----------------------|------|-----------------------|-----|---------------------|-------|---------------------|
| mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 914 | 36 | 1219 | 48 | 1499 | 59 | 1473 | 58 | 794 | 31 1/4 | 838 | 33 |
| 914 | 36 | 1372 | 54 | 1499 | 59 | 1626 | 64 | 845 | 33 1/4 | 838 | 33 |
| 914 | 36 | 1524 | 60 | 1499 | 59 | 1778 | 70 | 921 | 36 1/4 | 838 | 33 |
| 1016 | 40 | 1372 | 54 | 1524 | 60 | 1626 | 64 | 845 | 33 1/4 | 883 | 34 3/4 |

Type 1R (auto slim doors) - 35.5" opening







Type 3 (auto slim doors) - 35.5" opening

65 3/4

71 3/4

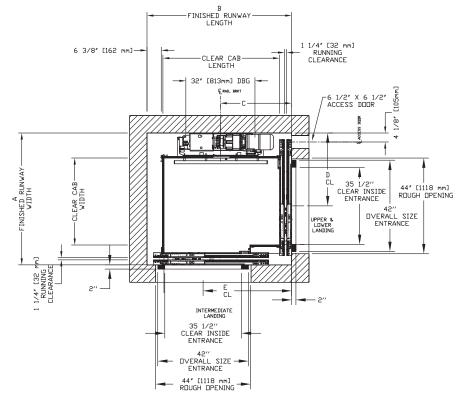
65 3/4

32 7/8

35 7/8

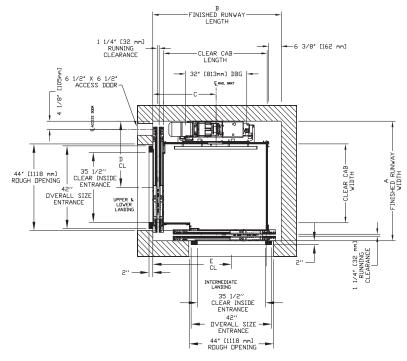
32 7/8

34 3/4



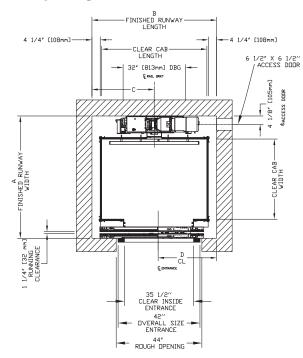
| | INSIDE WIDTH | CLEAR CAB LI | INSIDE ENGTH | | A SHED Y WIDTH | | B SHED (LENGTH | R | C AIL ER LINE | DC | D OR ER LINE | | e Jor Er Line |
|------|-----------------|-----------------|-----------------|------|----------------------|------|-----------------------|-----|---------------------|-----|--------------------|------|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 914 | 36 | 1372 | 54 | 1540 | 60 5/8 | 1702 | 67 | 838 | 33 | 838 | 33 | 1064 | 41 7/8 |
| 914 | 36 | 1524 | 60 | 1540 | 60 5/8 | 1854 | 73 | 914 | 36 | 838 | 33 | 1216 | 47 7/8 |
| 1016 | 40 | 1372 | 54 | 1581 | 62 1/4 | 1702 | 67 | 838 | 33 | 883 | 34 3/4 | 1064 | 41 7/8 |

Type 4 (auto slim doors) - 35.5" opening



| CLEAR CAB V | INSIDE WIDTH | CLEAR CAB LI | | | HED | FINIS RUNWAY | B SHED LENGTH | R/ CENTE | | DO CENTE | | | e Or R Line |
|----------------|-----------------|-----------------|----|------|--------|-----------------|---------------------|-------------|--------|-------------|--------|------|-------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 914 | 36 | 1372 | 54 | 1540 | 60 5/8 | 1702 | 67 | 838 | 33 | 838 | 33 | 1064 | 41 7/8 |
| 914 | 36 | 1524 | 60 | 1540 | 60 5/8 | 1854 | 73 | 914 | 36 | 838 | 33 | 1216 | 47 7/8 |
| 1016 | 40 | 1372 | 54 | 1581 | 62 1/4 | 1702 | 67 | 838 | 33 | 883 | 34 3/4 | 1064 | 41 7/8 |

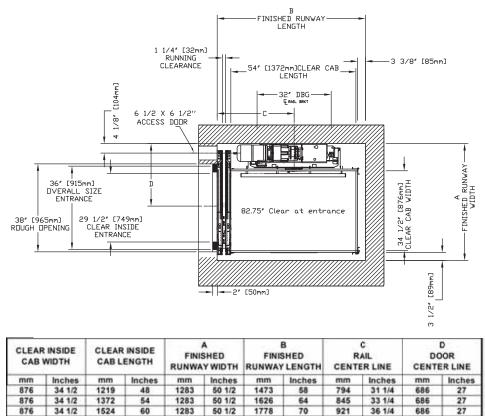
Type 5 (auto slim doors) - 35.5" opening



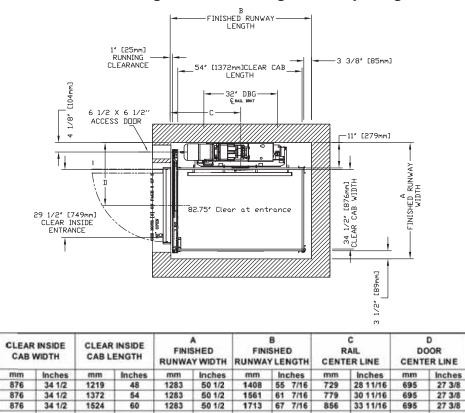
| | R INSIDE WIDTH | CLEAR CAB LE | | 100000000 | A SHED Y WIDTH | | B SHED Y LENGTH | 10000 | C AIL ER LINE | 10.000 | d Oor Er line |
|------|-------------------|-----------------|----|-----------|----------------------|------|-----------------------|-------|---------------------|--------|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 914 | 36 | 1372 | 54 | 1486 | 58 1/2 | 1626 | 64 | 813 | 32 | 762 | 30 |
| 914 | 36 | 1524 | 60 | 1485 | 58 1/2 | 1778 | 70 | 889 | 35 | 762 | 30 |
| 1016 | 40 | 1372 | 54 | 1588 | 62 1/2 | 1626 | 64 | 813 | 32 | 762 | 30 |

Eclipse with auto slim doors 29.5" opening

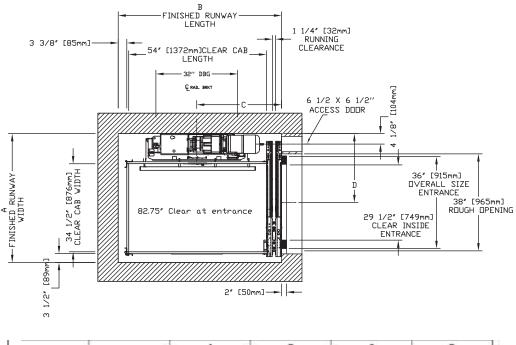
Type 1L (auto slim doors on car and landing) - 29.5" opening



Type 1L (auto slim doors on car, swing doors on landing) - 29.5" opening

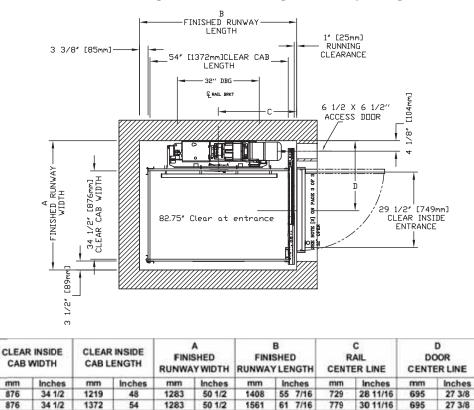


Type 1R (auto slim doors on car and landing) - 29.5" opening



| | R INSIDE WIDTH | | INSIDE ENGTH | | A SHED XY WIDTH | | B SHED Y LENGTH | 1. | C AIL ER LINE | | |
|-----|-------------------|------|-----------------|------|-----------------------|------|-----------------------|--|---------------------|-----|--------|
| mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 876 | 34 1/2 | 1219 | 48 | 1283 | 50 1/2 | 1473 | 58 | 794 | 31 1/4 | 686 | 27 |
| 876 | 34 1/2 | 1372 | 54 | 1283 | 50 1/2 | 1626 | 64 | 845 | 33 1/4 | 686 | 27 |
| 876 | 34 1/2 | 1524 | 60 | 1283 | 50 1/2 | 1778 | 70 | 921 | 36 1/4 | 686 | 27 |

Type 1R (auto slim doors on car, swing doors on landing) - 29.5" opening



876

34 1/2

1524

60

1283

50 1/2

1713

67 7/16

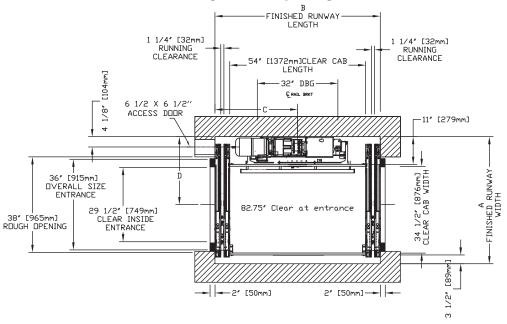
856

33 11/16

695

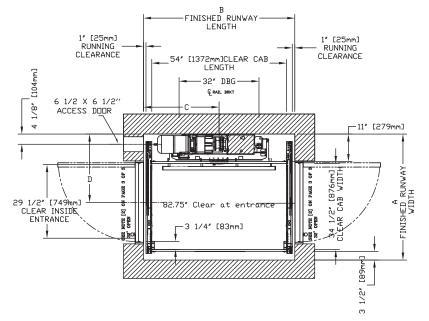
27 3/8





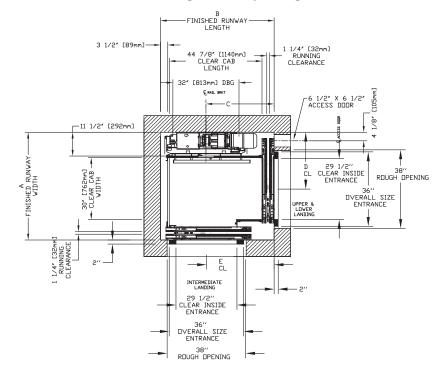
| | R INSIDE WIDTH | CLEAR CAB LE | | - and 6000 | A SHED AY WIDTH | 1000300000 | B SHED Y LENGTH | R | C AIL ER LINE | D | D DOR ER LINE |
|-----|-------------------|-----------------|----|------------|-----------------------|------------|-----------------------|-----|---------------------|-----|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 876 | 34 1/2 | 1219 | 48 | 1283 | 50 1/2 | 1518 | 59 3/4 | 759 | 297/8 | 686 | 27 |
| 876 | 34 1/2 | 1372 | 54 | 1283 | 50 1/2 | 1670 | 65 3/4 | 835 | 32 7/8 | 686 | 27 |
| 876 | 34 1/2 | 1524 | 60 | 1283 | 50 1/2 | 1822 | 71 3/4 | 911 | 357/8 | 686 | 27 |

Type 2 (auto slim doors on car, swing doors on landing) - 29.5" opening



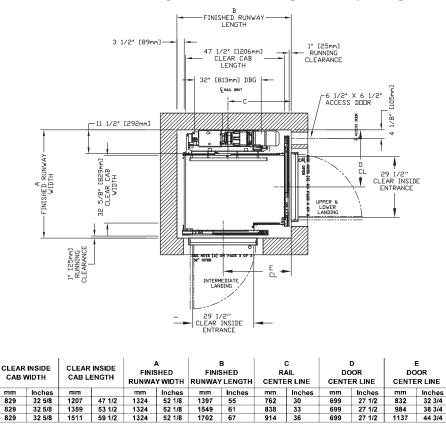
| | R INSIDE WIDTH | CLEAR CAB LE | | 10.000000000000000000000000000000000000 | A SHED Y WIDTH | 10000000000 | B SHED (LENGTH | - 12-12-12-12-12-12-12-12-12-12-12-12-12-1 | C AIL ER LINE | DC | d Dor Er line |
|-----|-------------------|-----------------|----|---|----------------------|-------------|-----------------------|--|---------------------|-----|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 876 | 34 1/2 | 1219 | 48 | 1283 | 50 1/2 | 1387 | 54 5/8 | 694 | 27 5/16 | 695 | 27 3/8 |
| 876 | 34 1/2 | 1372 | 54 | 1283 | 50 1/2 | 1540 | 60 5/8 | 770 | 30 5/16 | 695 | 27 3/8 |
| 876 | 34 1/2 | 1524 | 60 | 1283 | 50 1/2 | 1692 | 66 5/8 | 846 | 33 5/16 | 695 | 27 3/8 |

Type 3 with auto slim doors on car and landing (29.5" opening)



| | R INSIDE WIDTH | | INSIDE ENGTH | FINIS | A SHED Y WIDTH | FINK | B SHED / LENGTH | R/ | C AIL ER LINE | DC | D IOR IR LINE | | e Dor Er line |
|-----|-------------------|------|-----------------|-------|----------------------|------|-----------------------|-----|---------------------|-----|---------------------|------|---------------------|
| mm | Inches | mm | | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches |
| 762 | 30 | 1140 | 44 7/8 | 1324 | 52 1/8 | 1397 | 55 | 838 | 33 | 699 | 27 1/2 | 832 | 32 3/4 |
| 762 | 30 | 1292 | 50 7/8 | 1324 | 52 1/8 | 1549 | 61 | 838 | 33 | 699 | 27 1/2 | 984 | 38 3/4 |
| 762 | 30 | 1445 | 56 7/8 | 1324 | 52 1/8 | 1702 | 67 | 914 | 36 | 699 | 27 1/2 | 1137 | 44 3/4 |

Type 3 with auto slim doors on car, swing doors on landing (29.5" opening)



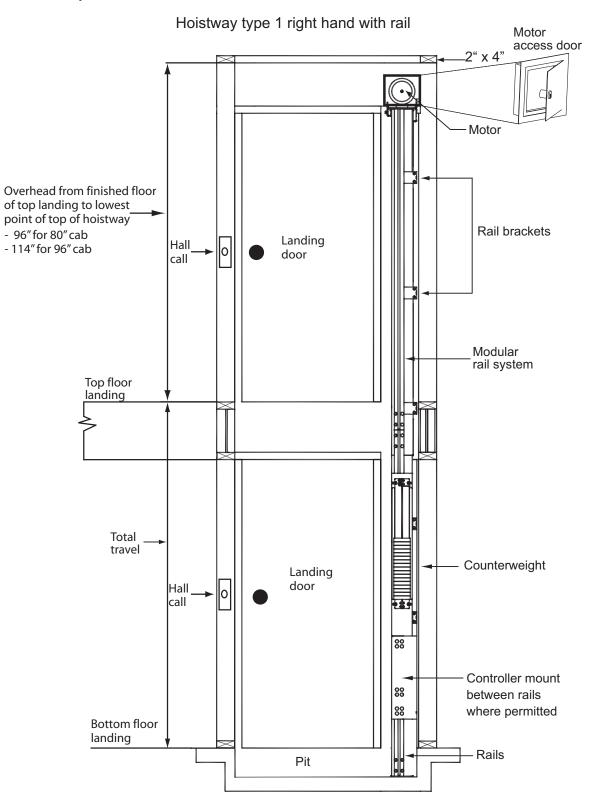
mm

829

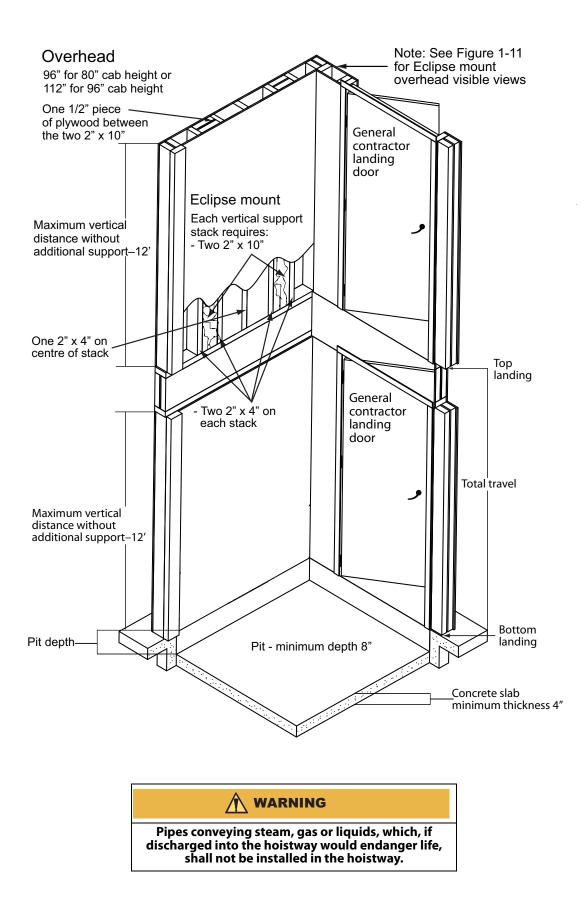
52 1/8

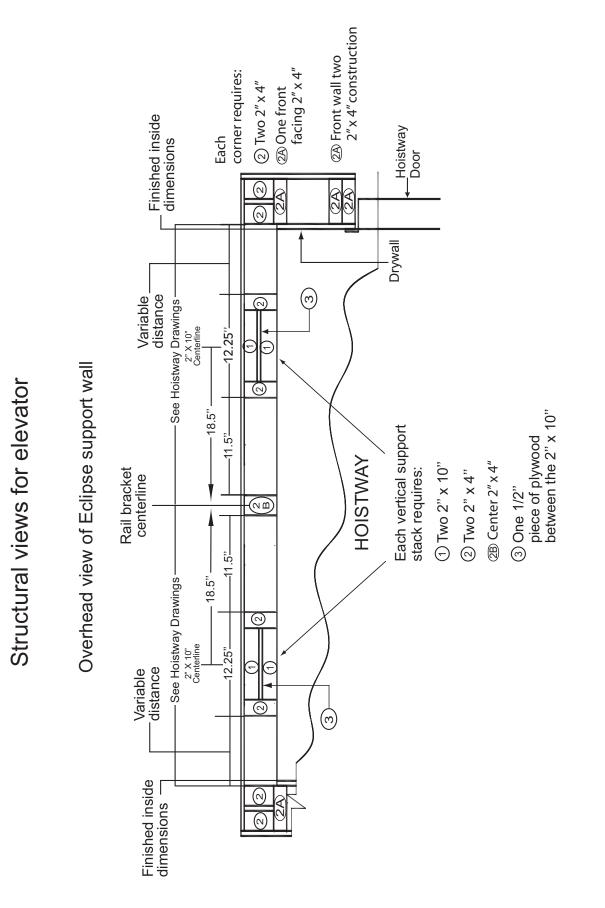
 44 3/4

Eclipse hoistway with rail



Eclipse hoistway mount

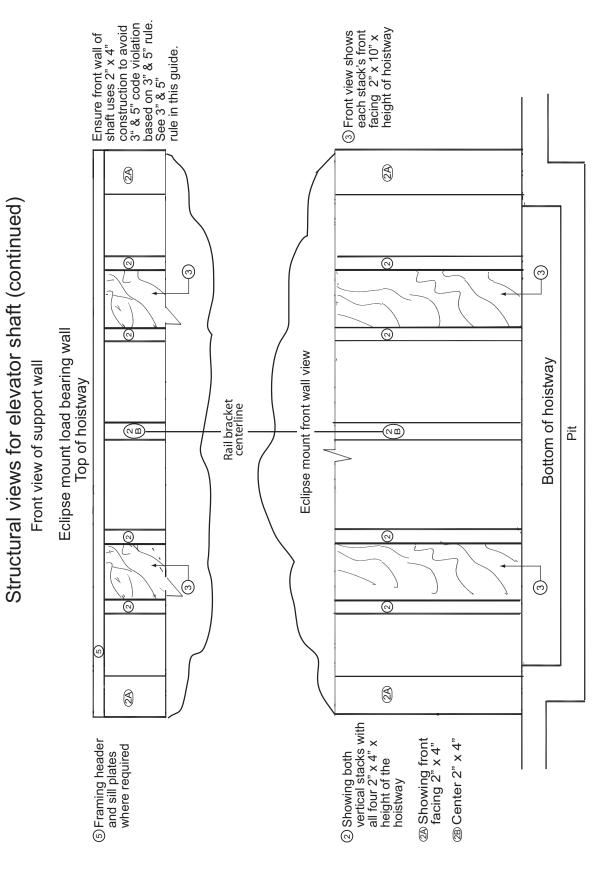




Eclipse top of hoistway view for wood construction

28

Wall configuration for wood construction (continued)

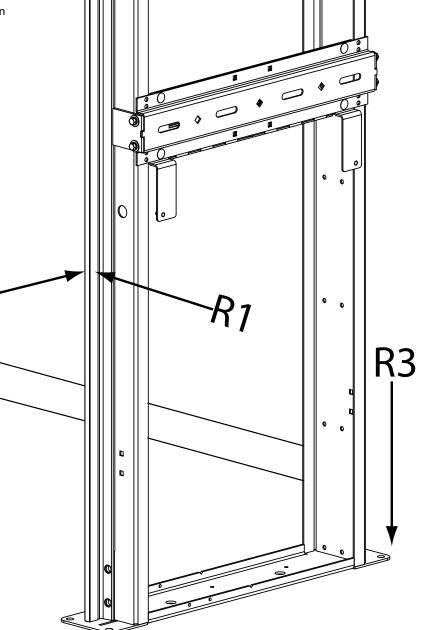


Loads on building and forces on rails

| | RAIL | FORCES | | R3 NDTE: | | | |
|--------------------|---|----------------------------------|------------|--------------|------------------------------------|------------|--|
| | ROAL | | | PIT FLOOR TO | I SUPPORT LOAD ★ (INCLUDES IMP | 040344 002 | |
| | * R1 | * R2 | PRODUCT | | PRODUCT | | |
| | 422 lbf. | 251 lbf. | Eclipse HD | 8.22 Kips | Eclipse HD | | |
| | 304 lbf. | 194 lbf. | Eclipse | 5,6 Kips | Eclipse | | |
| | RAIL WEIGHT | 1 8.0 lbs / ft | , | | T FORCE ON RAIL D eg.608 lbf fo | | |
| load mea top | Equal and oppo ls caused by off ins relative to co shoes pull out; iom shoes push | set suspension enter of mass- | | | | | |
| on r | Side forces expe ail face caused netrical loading | by | | | - | | |

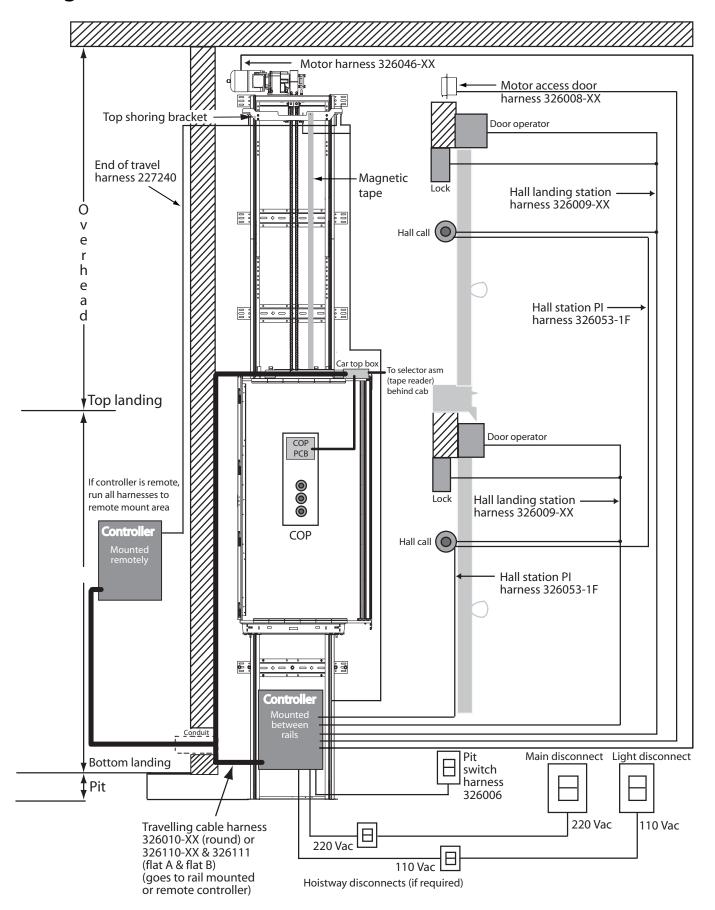
R3: Downforce on the rail under safety stop conditions.

R

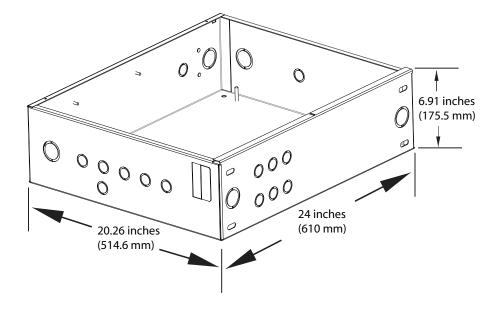


| Eclipse electrical requirements | By General Contractor/Owner | Your electrician and phone installer supply the following connections: Main disconnect - One (1) 230V single-phase 30 Amp fused disconnect box with 20 Amp fuse/breaker (if voltage is not 230V minimum, a buck-boost transformer is required) Lighting disconnect - One (1) 120V 15 Amp fused disconnect or circuit breaker for cab lighting Telephone line - One (1) telephone line jack in close proximity to the controller NOTE: Savaria Corporation does not provide power cable to main disconnect. | Recommended manufacturers for fused disconnect | G.E. Main disconnect: 230V single-phase disconnect model # TH3221 Main disconnect: 230V single-phase disconnect model # TH3221 240V - 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses (normally opened/normally closed) In addition, two each - 250V, 15 Amp fused disconnect or circuit breaker Lighting disconnect - 120V 15 Amp fused disconnect or circuit breaker Unaddition, two each - 250V, single-phase disconnect model # DH221NGK 240V - 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses (normally opened/normally closed) | Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel (secommended): Square D or Siemens only. |
|---------------------------------|-----------------------------|---|--|--|---|
| | | | | Square D Main disconnect: 230V single-phase disconnect model # H221N 240V - 30 Amp with Interlock Kit - ELK031 Aux Contacts (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses Lighting disconnect: 120V 15 Amp fused disconnect or circuit breaker Lighting disconnect: 120V 15 Amp fused disconnect model # HF221N Siemens Main disconnect: 230V single-phase disconnect model # HF221N 240V - 30 Amp with Interlock Kit-HA 161234 Aux Contacts (normally opened/normally closed) In addition, two each - 250V, 20 Amp, RK5 fuses Lighting disconnect: 120V 15 Amp fused disconnect contacts (normally opened/normally closed) | |

Wiring (use as reference)



Controller box dimensions



🕤 savaria

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