



Vuelift®

Residential  
Elevator

Planning  
Guide

For North America  
and European Units

 **savaria.**

## 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](http://www.savaria.com)** for the most current Vuelift drawings and dimensions.

## Purpose of This Guide

This guide assists architects, contractors, and lift professionals to incorporate the Vuelift Residential Elevator into a residential design. The design and manufacture of the Vuelift 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
- EN 81-41:2010 Special lifts for the transport of persons and goods
- ASME A17.1/CSA B44 2013, Section 5.3
- ASME A17.1/CSA B44 2016, Section 5.3
- ASME A17.1/CSA B44 2019, 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.

**IMPORTANT:** This Planning Guide provides nominal dimensions and specifications useful for the initial planning of a vertical platform lift project. Dimensions and specifications are subject to change without notice due to continually evolving code and product applications.

Before beginning actual construction, please consult Savaria or the authorized Savaria dealer in your area to ensure you receive your site-specific installation drawings with the dimensions and specifications for your project.

Visit our website for the most recent Vuelift drawings and dimensions.

## 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.
- 5 Plan for electrical requirements.

## Revision History of This Guide

December 4, 2017 - Initial release  
 December 14, 2017 - Added Electrical Requirements section on page 9 (round) and page 25 (octagonal)  
 January 31, 2018 - Added drawings for Type 2, Octagonal, Glass on pages 38 to 43  
 March 8, 2018 - Revised Noise Level spec in Specifications tables on pages 6 to 22  
 March 23, 2018 - Added dimensions for controller box and UPS on pages 21 and 45  
 March 29, 2018 - Revised drawing on page 42  
 May 7, 2018 - Added wheelchair plan views on pages 21 and 46  
 May 14, 2018 - Added notes to wheelchair plan views on pages 21 and 46  
 May 16, 2018 - Added note on pages 22 and 47 stating that a remote controller cannot be more than 50 feet away from the top of the unit in order for the cable to reach  
 June 7, 2018 - New front cover  
 December 7, 2018 - Revised drawing on page 46  
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 March 26, 2019 - Added remote controller drawings on pages 24, 59 and 86  
 March 27, 2019 - Added info for electrical outlet on pages 10, 11, 12, 29, 30, 31, 64, 65 and 66  
 May 9, 2019 - Revised drawings on pages 20, 40, 48, 55, 75 and 83  
 May 22, 2019 - Added balcony and handrail information on pages 18, 39, 48, 57, 77 and 86  
 May 29, 2019 - Added Model Specification sheets on pages 15, 37, 47, 77 and 87  
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 January 9, 2020 - Added note to temperature spec on pages 7, 27, and 66  
 January 17, 2020 - Added Savaria Link option to specs on pages 8, 28 and 67 and to provisions by others on pages 11, 31 and 70  
 March 16, 2020 - Revised specs on pages 8, 28 and 67; Removed 3 & 5 rule from pages 9, 29 and 68; Revised info on pages 12, 32 and 71; Revised controller drawing on pages 25, 64 and 95  
 March 19, 2020 - Revised specs on page 67  
 March 23, 2020 - Revised footprint spec on page 66  
 April 8, 2020 - Revised safety factor on pages 13, 34, 35, 75 and 76; Added new drawings on pages 25, 47, 66, 88 and 99; Removed window from controller box drawings on pages 26, 67 and 100  
 June 17, 2020 - Added 2019 code to table on page 2; Added new spec "floor by others (in cab)" to specs tables on pages 7, 28, and 69  
 September 9, 2020 - Revised drawings and other various updates throughout  
 November 10, 2020 - Revised drawings throughout  
 September 16, 2021 - Updated calculations  
 June 20, 2022 - Updates to schematics and measurements  
 October 3, 2022 - Revised cover page, updated code requirements, revised drawings for pages 17-19, 31, 43-45, 58-60, 72, 83-84, 97, 108-110, 122  
 October 24, 2023 - Added Site Preparation Checklist on page 123, added revision number.

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# Chapter 1: Round Acrylic (RAM)



## Specifications - Round Acrylic (RAM)

| Specification                             | Specification Data   |
|---|--|
| Load capacity                             | 840 lb (381 kg)  |
| Maximum travel                            | 50 ft (15.24 m); 55 ft (16.76 m) where a variance is possible  |
| Travel speed                              | 32 ft/min (0.16 m/s)   |
| Noise level (for typical installation)    | 65 dB  |
| Daily cycle                               | Normal: 40<br>Heavy: 80<br>Excessive: 150<br>Maximum starts in 1 hour on standard installation: 20<br>NOTE: Please consult your Sales Representative if there's a chance you may exceed these amounts.   |
| Maximum levels serviced                   | 6  |
| Minimum overhead                          | 108" (2743mm) for 84" (2133mm) cab<br>104" (2641mm) for 80" (2032mm) cab<br>96" (2438mm) for 76.5" (1943mm) cab  |
| Cab                                       | Cab walls: Full clear acrylic<br>Cab interior height (standard): 84 in (2.13 m)<br>Cab interior height (optional): 80in (2.03 m)<br>Cab interior height: 76.5in (1.94 m)<br>Cab weight: 650 lb (295 kg)<br>Cab floor area: 13 sq ft (1.3 sq m) |
| Floor by others (in cab)                  | 3/4" (19 mm) maximum   |
| Footprint                                 | 54" (1.37 m) diameter  |
| Power supply                              | 30A, 230-V, single-phase, 50/60 Hz   |
| Cab lighting                              | 15A, 115V, single-phase, 50/60 Hz  |
| Suspension                                | Type: Galvanized aircraft cable (2 x 3/8" diameter)<br>Construction: IWRC 7 x 19 RHRL<br>Nominal strength: 14,400 lb (6,545 kg)<br>Weight of ropes: 0.243 lb/ft (3.616 g/cm)<br>Travel cable weight: 0.228 lb/ft (3.393 g/cm)                  |
| Drive train                               | Type: Winding drum<br>Motor: 5.0HP (3.5 KW) with integrated brake<br>Transmission: Low vibration, worm gear drive<br>Motor control: Preprogrammed variable frequency drive<br>Door interlocks: Xtronics  |
| Pit/floor load                            | Refer to the section "Load Calculations"   |
| Distance between 2 landings               | 93.5" (2375 mm) minimum  |
| Pit depth                                 | 4" - 12" (102 mm - 305 mm)<br>No pit with optional short ramp  |
| Temperature operating range (environment) | - 10°C to + 40°C / 14°F to 104°F<br><b>NOTE:</b> For optimal running conditions, each landing of the unit should be in a climate-controlled environment.   |



| Specification   | Specification Data   |
|-----------------|--|
| Safety features | Pit run/stop switch and car top run/stop switch<br>Emergency stop switch<br>Safety brakes<br>Electrical circuit overspeed<br>Manual lowering<br>Emergency battery back-up for cab lighting and lowering  |
| Options         | Optional configurations: Type 2, 3R, 6<br>Optional colors:<br><ul style="list-style-type: none"> <li>• White (Texture White PX521W859)</li> <li>• Silver (Texture Silver PX521S343)</li> <li>• Custom powder-coat frame</li> </ul> Note that Black is the standard color (Texture Black PX622N365)<br>Other options: Up to 6 stops, balcony attachment<br>Savaria Link remote monitoring (Vuelift Micro-6 only)<br>Landing door handle painted to match unit<br>Top header ring in sheet metal painted to match unit |

## Safety First - Round Acrylic (RAM)

### 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 door and the hoistway edge of the landing sill shall not exceed 0.75" (19 mm).
- Distance between the hoistway face of the landing door and the car door shall not exceed 4" (102 mm).
- Vuelift Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

## Electrical Requirements - Round Acrylic (RAM)

Your electrician and phone installer must supply the following connections:

- Main Disconnect - One 230V single-phase, 30 Amp fused disconnect box with 30 Amp fuse/breaker. If voltage is not 230V minimum, a buck-boost transformer is required.
- Lighting Disconnect - One 120V, 15 Amp fused disconnect or circuit breaker for cab lighting.
- Telephone Line - One telephone line jack in close proximity to the controller.
- Electrical Outlet - One 15A GFCI outlet shall be installed near the pit or base ring.

**NOTE:** Savaria does not provide power cable to main disconnect.

### Recommended Manufacturers for Fused Disconnect

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### G.E.

- 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, 30 Amp, RK5 fuses.
- Lighting disconnect - 120V, 15 Amp fused disconnect or circuit breaker.

#### Cutler Hammer

- Main disconnect: 230V single-phase disconnect model # DH221NGK.  
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).  
In addition, two each - 250V, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

**Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel itself): Square D or Siemens only.**

## Provisions By Others - Round Acrylic (RAM)

### General

#### Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

### Dimensions

The contractor/customer must verify all clearance dimensions prior to delivery of the unit.

### Structural Floor Loads

A structural engineer is required to ensure that the building will safely support all loads imposed by the lift equipment. Refer to the tables on the installation drawings (shop drawings) for pit/floor loads imposed by the equipment. Refer to the section, Load Calculations.

### Electrical Power Supply

See the following table. Lockable fused disconnects must be installed in compliance with electrical code and are to be provided prior to installation of the unit. Roughed in power to the lift must be provided to the head assembly location prior to installation of the unit.

| Power Supply Specifications | Disconnect Size | Time Delay Fuse Size | Volts     | Phase  |
|-----------------------------|-----------------|----------------------|-----------|--------|
| Motor and equipment         | 30 Amps         | 30 Amps              | 230 Volts | Single |
| Cab lights                  | 15 Amps         | 15 Amps              | 115 Volts | Single |
| Pit light                   | 15 Amps         | 15 Amps              | 115 Volts | Single |

### Telephone

If a telephone circuit is required, the jack is to be provided and installed by others. This circuit shall be brought to a location next to the controller and be available to connect and test upon elevator installation.

### Electrical Outlet

One 15-Amp GFCI outlet shall be installed near the pit or base ring.

### Permanent Power

Before installation can begin, permanent power must be supplied.

### Entrances Handrails

All balcony levels require handrails to be installed per local codes after installation is completed. The handrail and installation is to be provided by the contractor/customer. Savaria Concord Lifts Inc. and/or local installer are not responsible for handrail installation or materials.

### Savaria Link Option (Vuelift Micro-6 Only)

If you have the Savaria Link Ethernet remote monitoring option, ensure that you have an Ethernet connection with Internet capability in the vicinity of the unit's controller.

If you have the Savaria Link Wireless remote monitoring option, ensure that you have a wireless signal with Internet capability in the vicinity of the unit's controller.

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## Site Preparation - Round Acrylic (RAM)

The following items **MUST** be completed prior to installation of the elevator.

### Finished Floors

- Finished floors be installed at all landing levels.

### 230V Power (with Switched Disconnect)

- Permanent 230V, single-phase, 30-Ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted in a location within line of sight of the elevator or controller.
- 230V source must be run from the disconnect switch to a junction box in a discrete location at the top of the elevator hoistway location.
- Disconnect must be installed according to all applicable local codes.

### 110V Power (with Switched Disconnect) - 2 are required

- Permanent 110V, single-phase, 15-Ampere dedicated power to a lockable, fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted near the 230V disconnect switch.

### Telephone Works

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your local installer or building contractor for code requirements.

### Electrical Outlet

- One 15-Amp GFCI outlet shall be installed near the pit or base ring.

### Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting Savaria.

### Floor and Pit Cutouts Complete

- If a pit is to be used, a smooth, level surface of at least 4" must be provided. For pit depths greater than 12", contact Savaria to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed.
- Hole in floor, or modified balcony rail as directed by drawings.

### Check Floor to Floor Maximum and Minimum Distances

- 108" (2743mm) for 84" (2133mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration. (standard)
- 104" (2641 mm) for 80" (2032 mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for modified short cab configuration. (optional)
- 96" (2438 mm) for 76.5" (1943 mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for silica glass model. (short)

### Drywall and Painting

- All drywall and painting must be complete.

## Load Calculations - Round Acrylic (RAM)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Vuelift elevators are designed such that the dead load and impact load are transferred to the lowest level through the rail base plates and rings when installed properly in a building with structural integrity including consistent floor to floor heights.
 

Note: Vuelift elevators are designed for applications in buildings that maintain consistent floor to floor height as the building ages.

If floor to floor height changes after installation, the elevator **MUST** be taken out of service pending inspection and correction by a trained installation technician.
- All mid floors including the bottom floor may be subjected to a maximum lateral load of 250 lb.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, these figures DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.
 

Lower Floor Dead Load (lbs) = (45 x feet of hoistway) + (250 x number of floors) + 2210 lbs

Lower Floor Dead Load (Kg) = (67 x meter of hoistway) + (113 x number of floors) + 1002 Kg

Lower Floor Impact Load (lbs) = 4452 lbs (2019 Kg)

Lower Floor Total Load (lbf) = Dead Load + Impact Load

Mid Floor Load (lbf) = 250 lbs (113kg)

Shipping Weight (lb) = (694 x number of floors) + 1720

**Note:** Shipping weight includes the actual component weights for all parts, plus shipping crate and packaging weight.

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## Drawings - Round Acrylic (RAM)

- Plan view
- Pit view
- Base mount details
- Thru-floor view
- Balcony view
- Balcony plate and handrail information
- Thru-floor details
- Balcony details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Pit cutout detail
- Datasheet
- Machine room layout and wire routing
- Controller box dimensions



## Model Specifications - Round

### Round (Acrylic)

- Capacity: 381kg 840 lb) 1.3
- Cab Size: sqm (13 sq. ft.)
- Clear Cab Size: 1298mm (51 in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
  - Acrylic: 1372mm 54 in.)
  - Pit/Thru Floor Cutout: 1422mm 56 in.)
  - Balcony/Header Ring: 1473mm 58 in.)
  - Pit/Thru Floor Ring: 1575mm (62 in.)
- Minimum Overhead Clearance: 2743mm (108 in.)  
for 2133 mm (84 in.) cab
- Minimum Overhead Clearance: 2641mm (104 in.)  
for 2032 mm (80 in.) cab

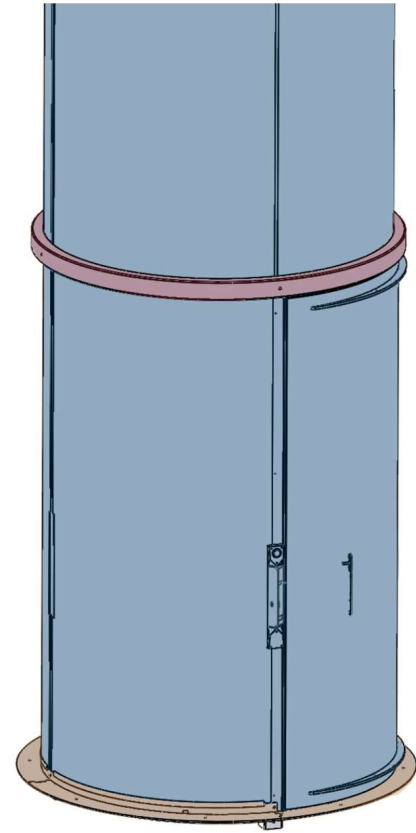
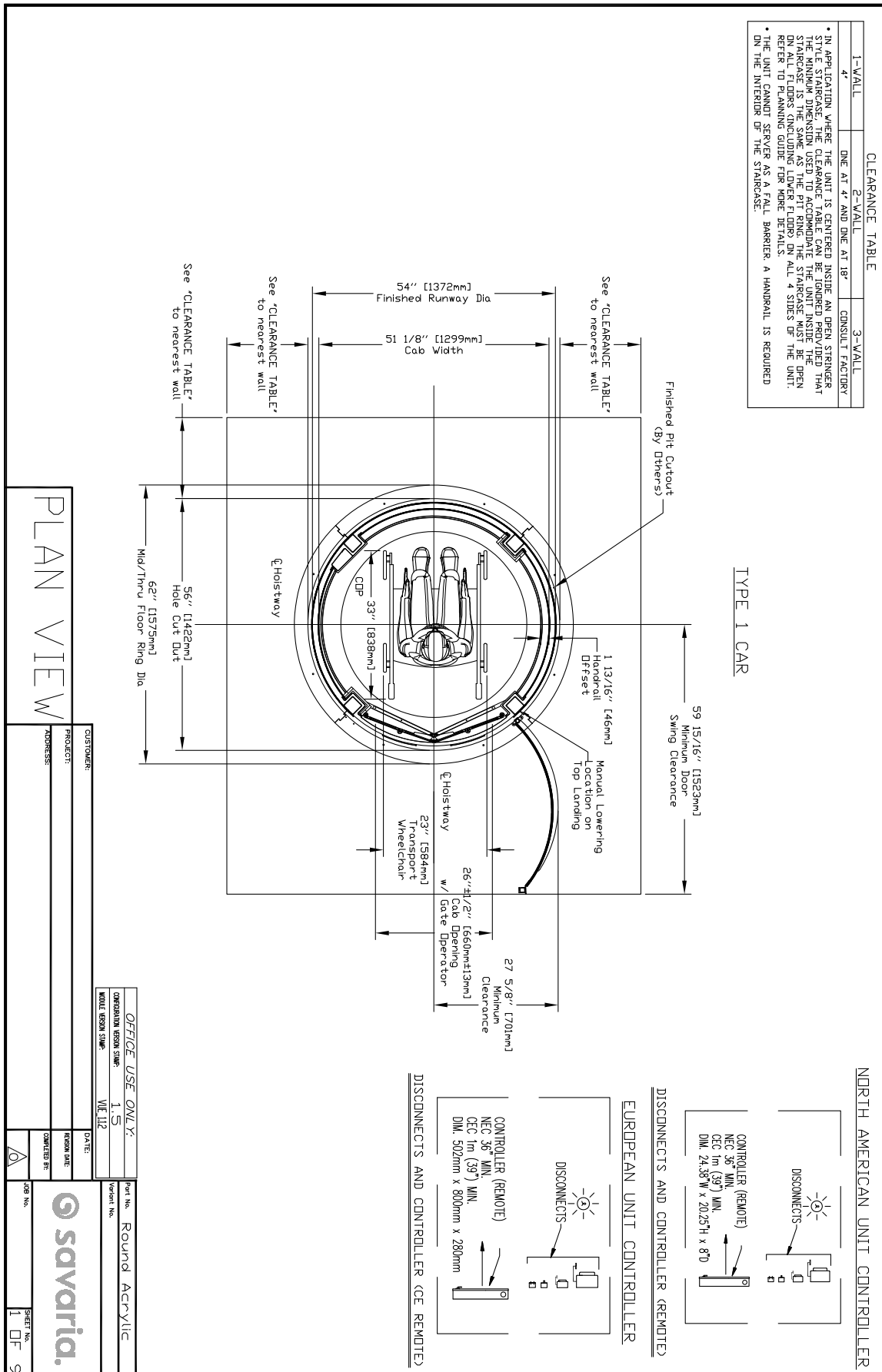


Figure 1: Plan view - round acrylic (RAM) type 1



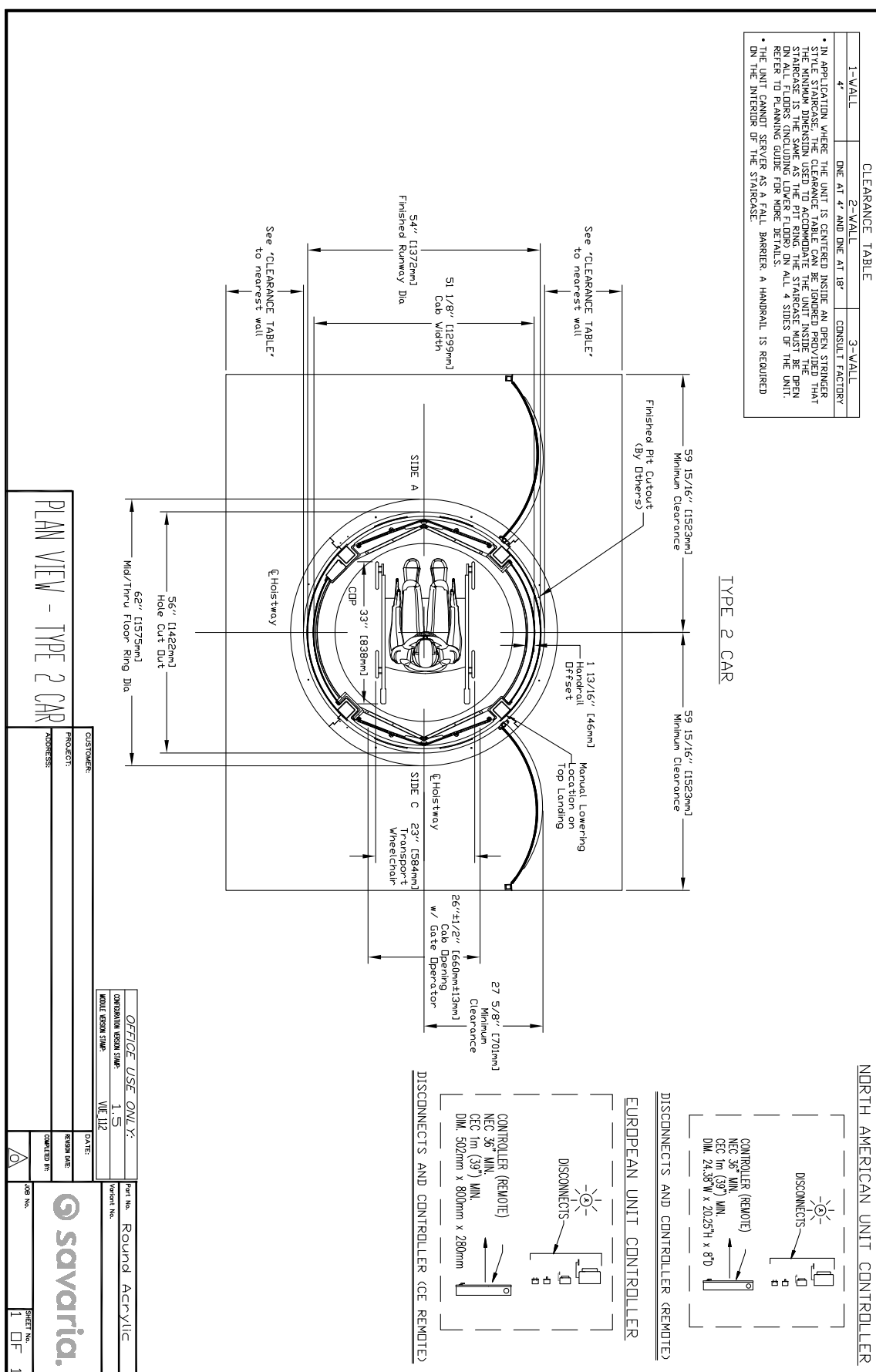
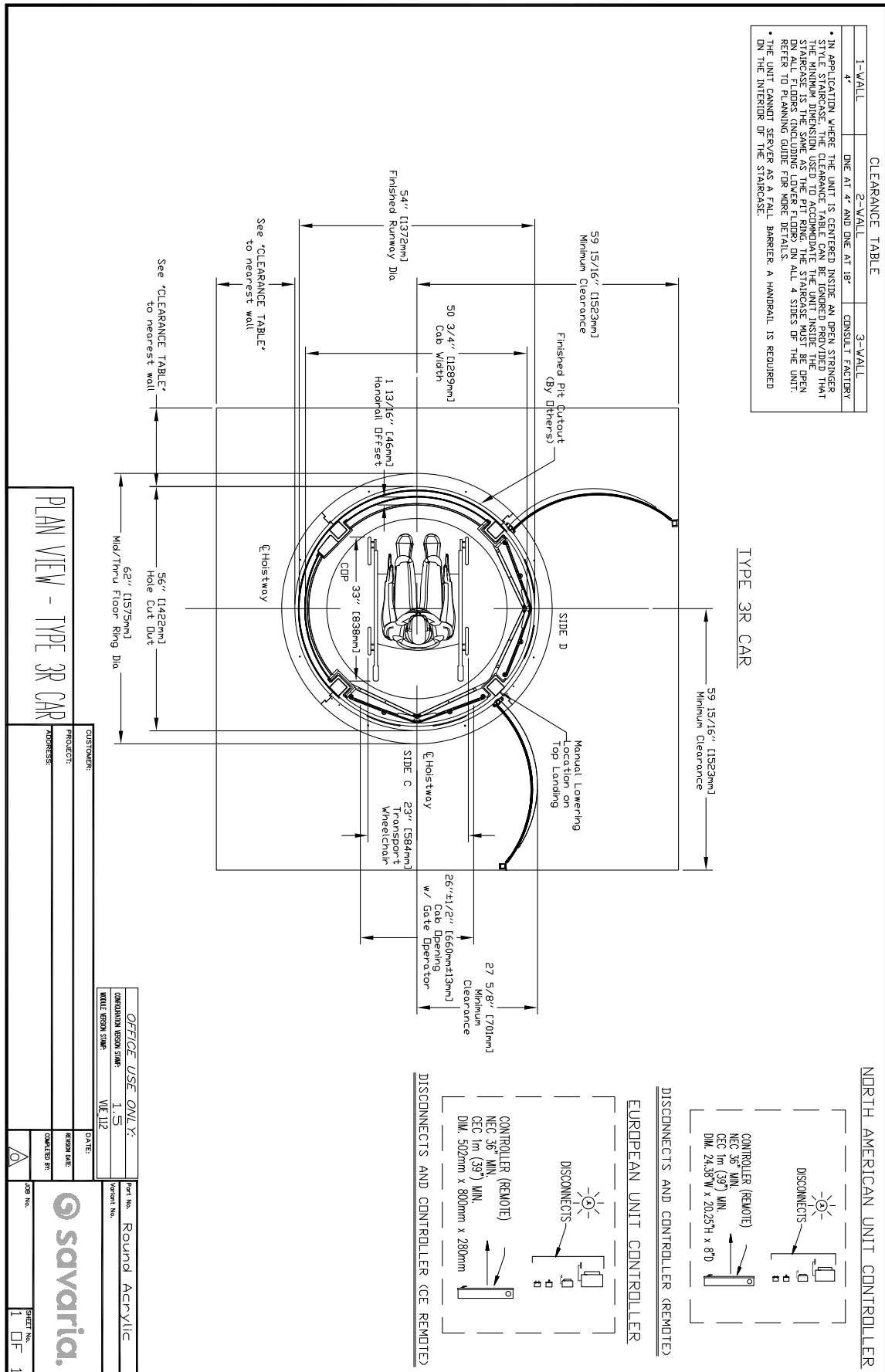
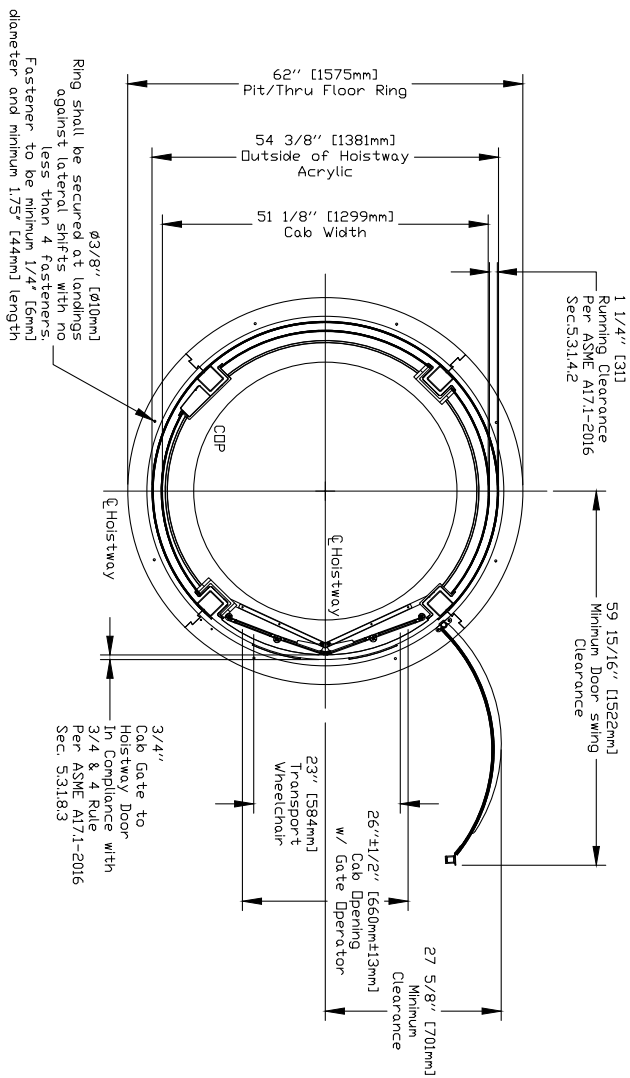


Figure 3: Plan view - round acrylic (RAM) type 3



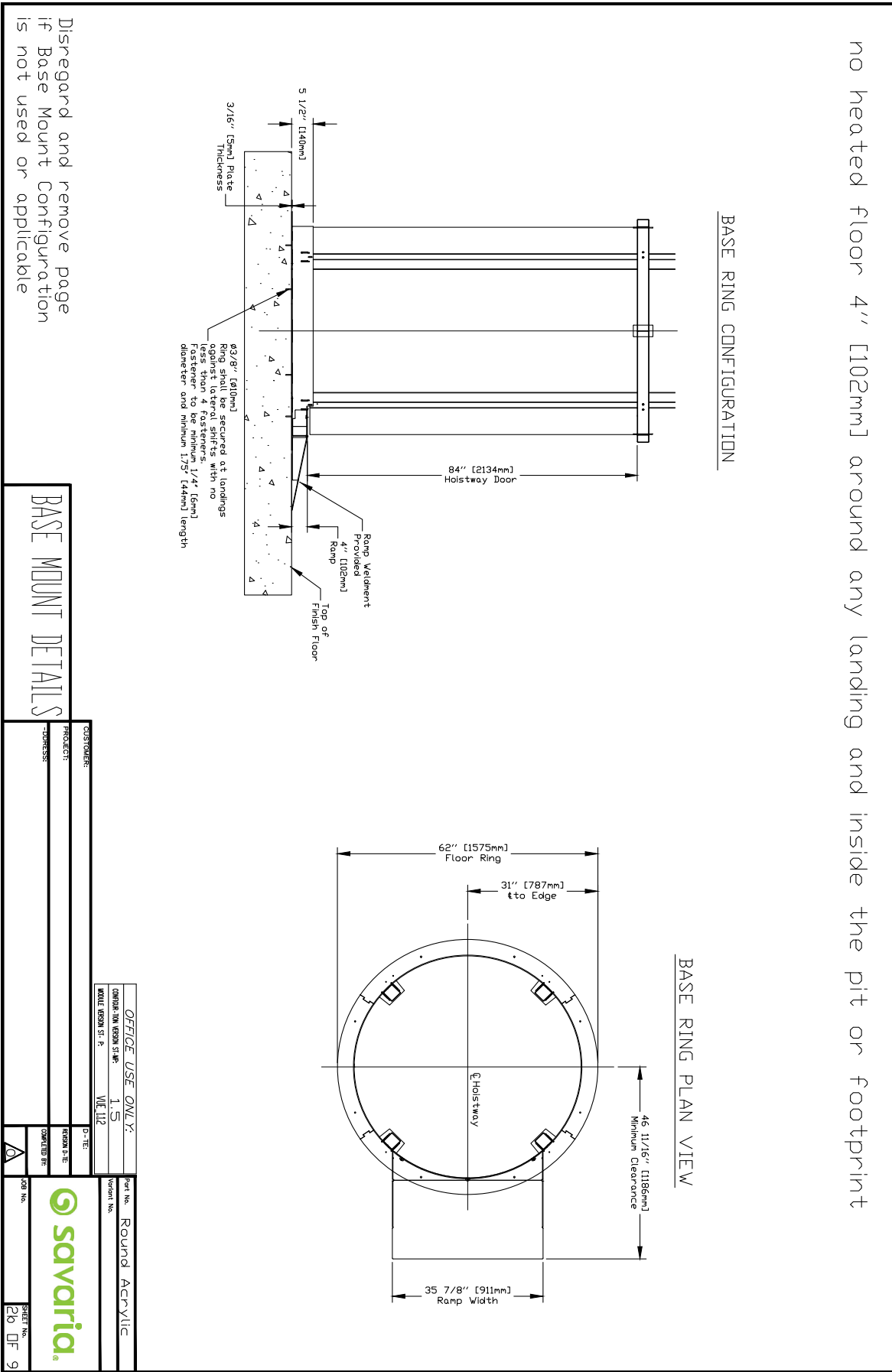
no heated floor 4" [102mm] around any landing and inside the pit or footprint



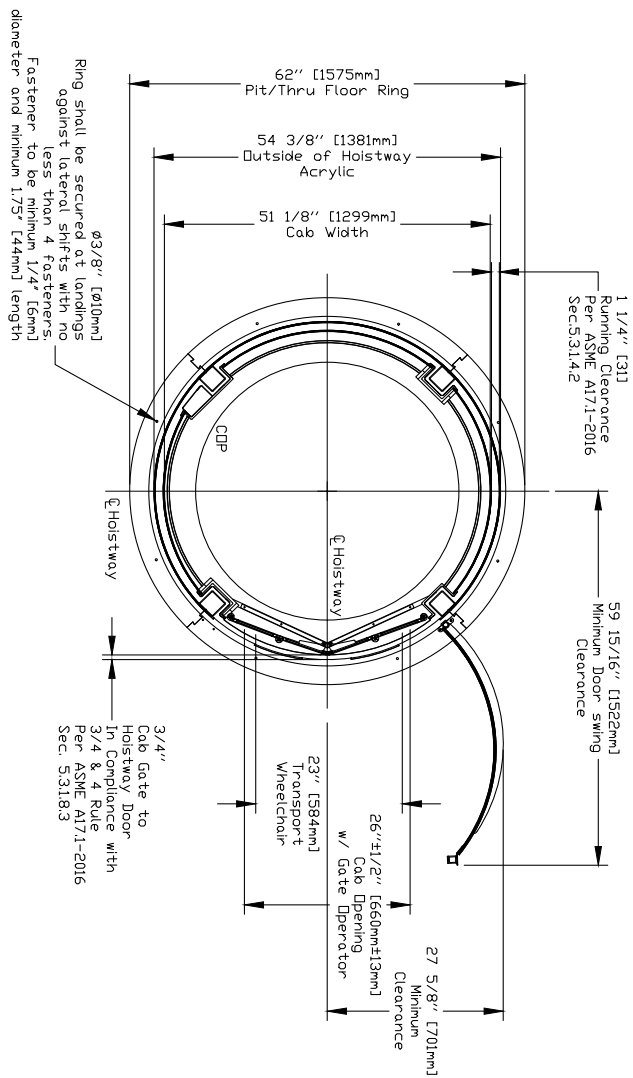
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[illegible]

Figure 5: Base mount details - round acrylic (RAM) type 1, 2 or 3



no heated floor 4" [102mm] around any landing and inside the pit or footprint



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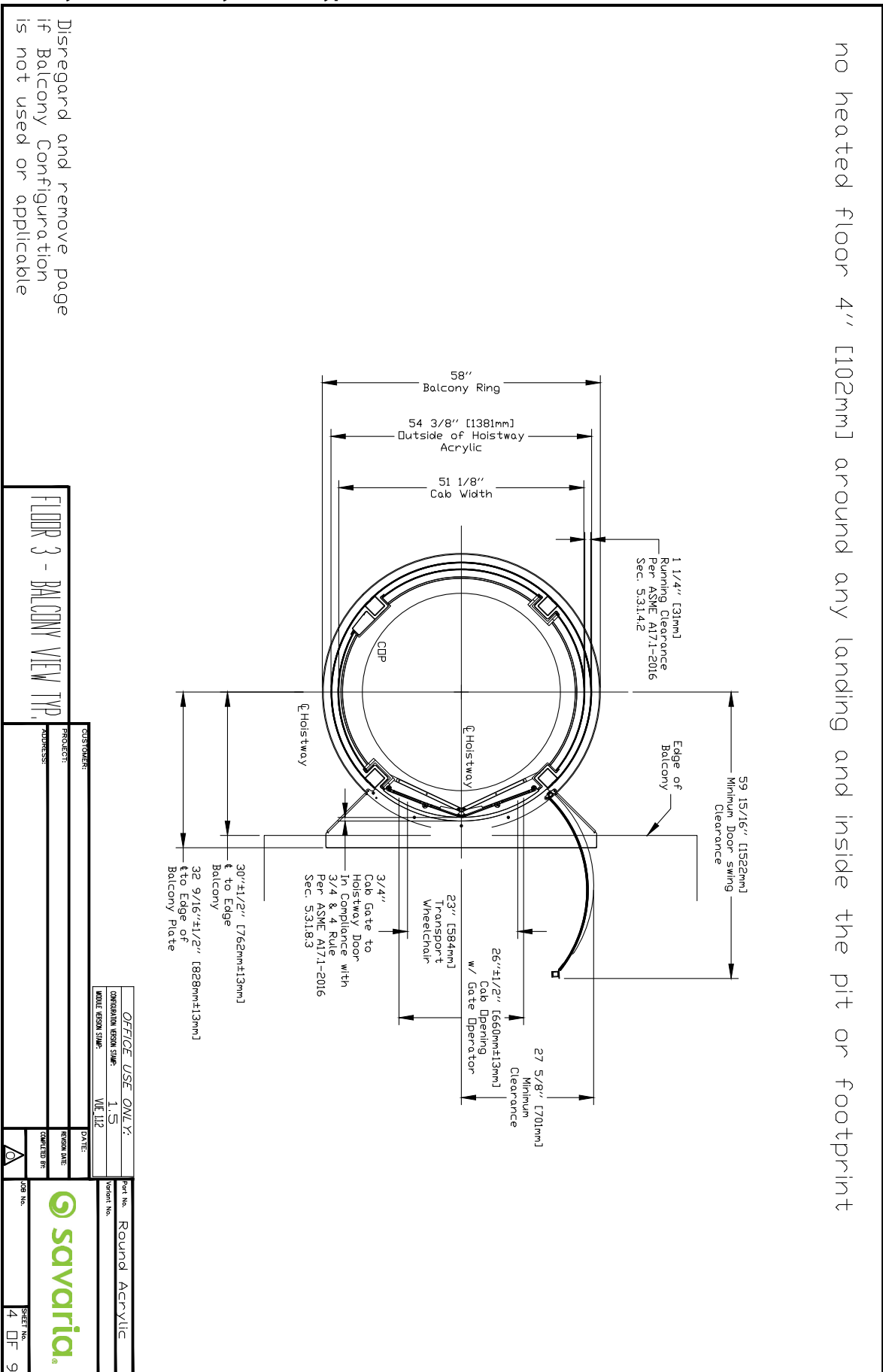
|                                 |  |         |  |   |  |      |  |   |  |               |  |
|---------------------------------|--|---------|--|---|--|------|--|---|--|---------------|--|
| FLOOR 2 - THIRD FLOOR VIEW TYP. |  | PROJECT |  | REGION NAME   |  | DATE |  | PART NO.  |  | Round Acrylic |  |
| ADDRESS                         |  |         |  | COMPLETE BY   |  |      |  | INVENT NO.  |  |               |  |
|                                 |  |         |  |  |  |      |  | JOB NO.   |  |               |  |
|                                 |  |         |  |   |  |      |  |  |  |               |  |
|                                 |  |         |  |   |  |      |  | 3 OF 5  |  |               |  |



Figure 7: Balcony view - round acrylic (RAM) type 1, 2 or 3



**Figure 8: Balcony plate and handrail information - round acrylic (RAM) type 1 shown**



The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft is 1" (25.4 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

**NOTE:** Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 9: Thru-floor details- round acrylic (RAM) type 1, 2 or 3

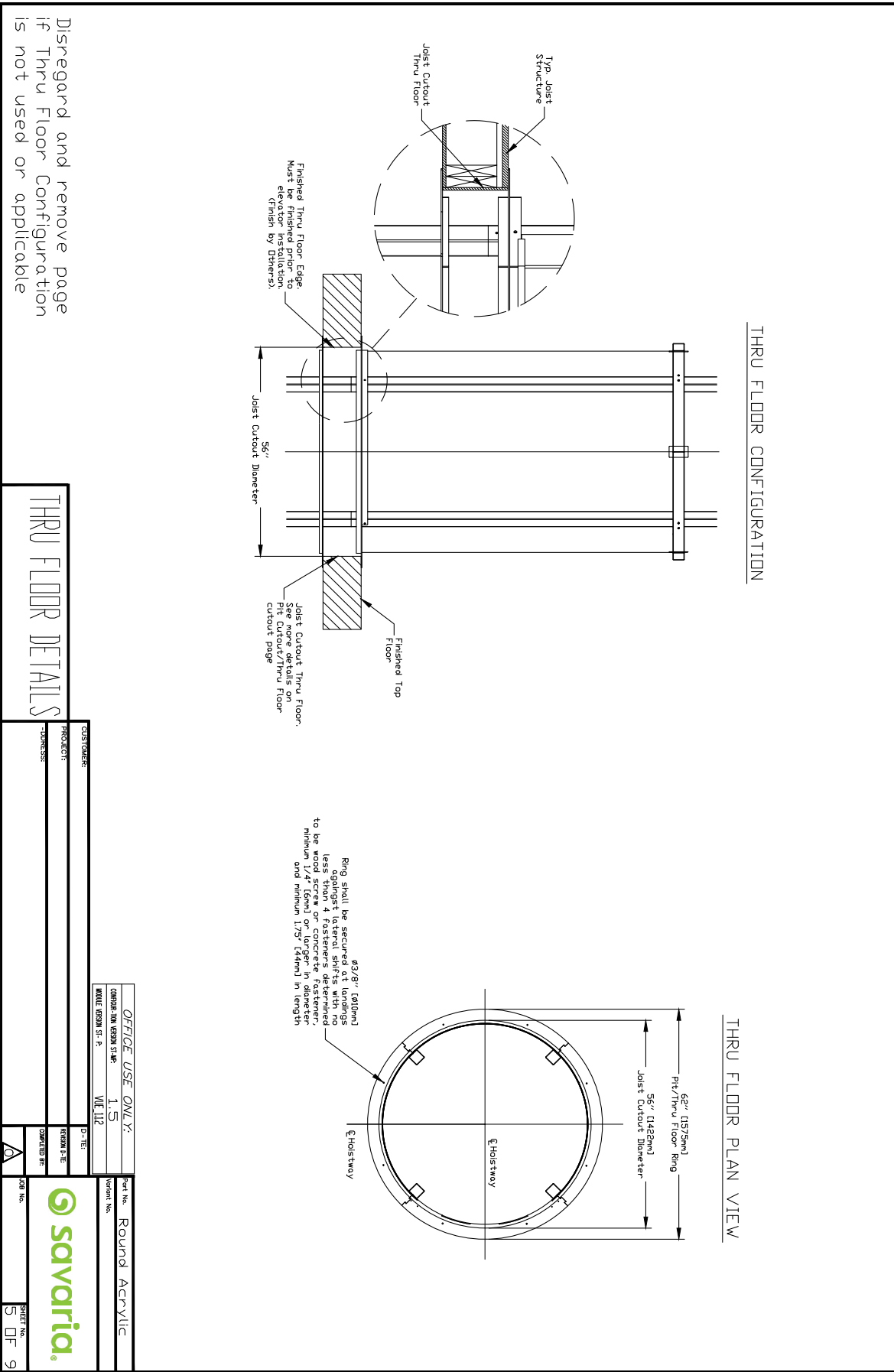
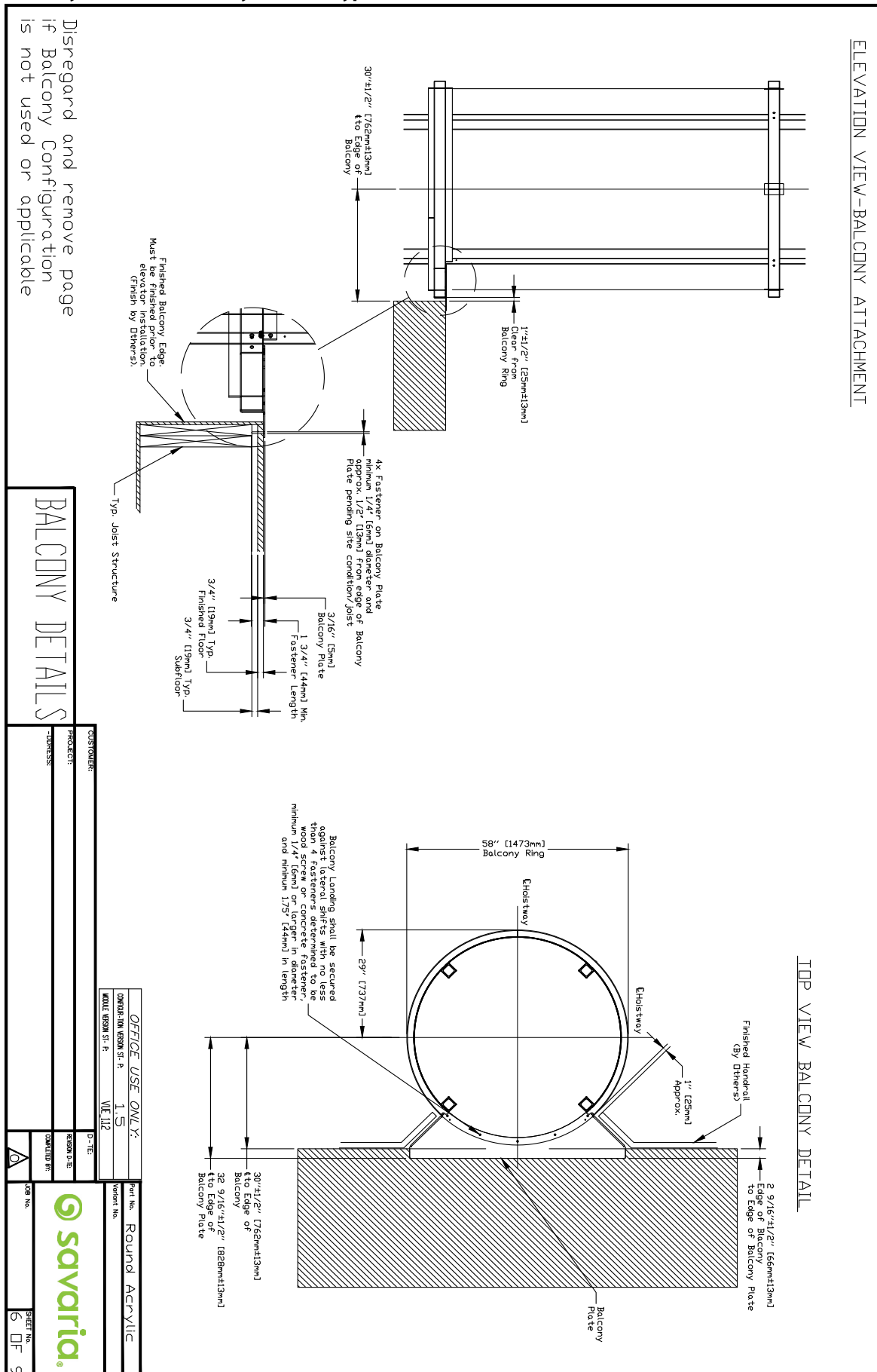


Figure 10: Balcony details- round acrylic (RAM) type 1, 2 or 3



**Figure 11: Elevation view - round acrylic (RAM) type 1, 2 or 3**

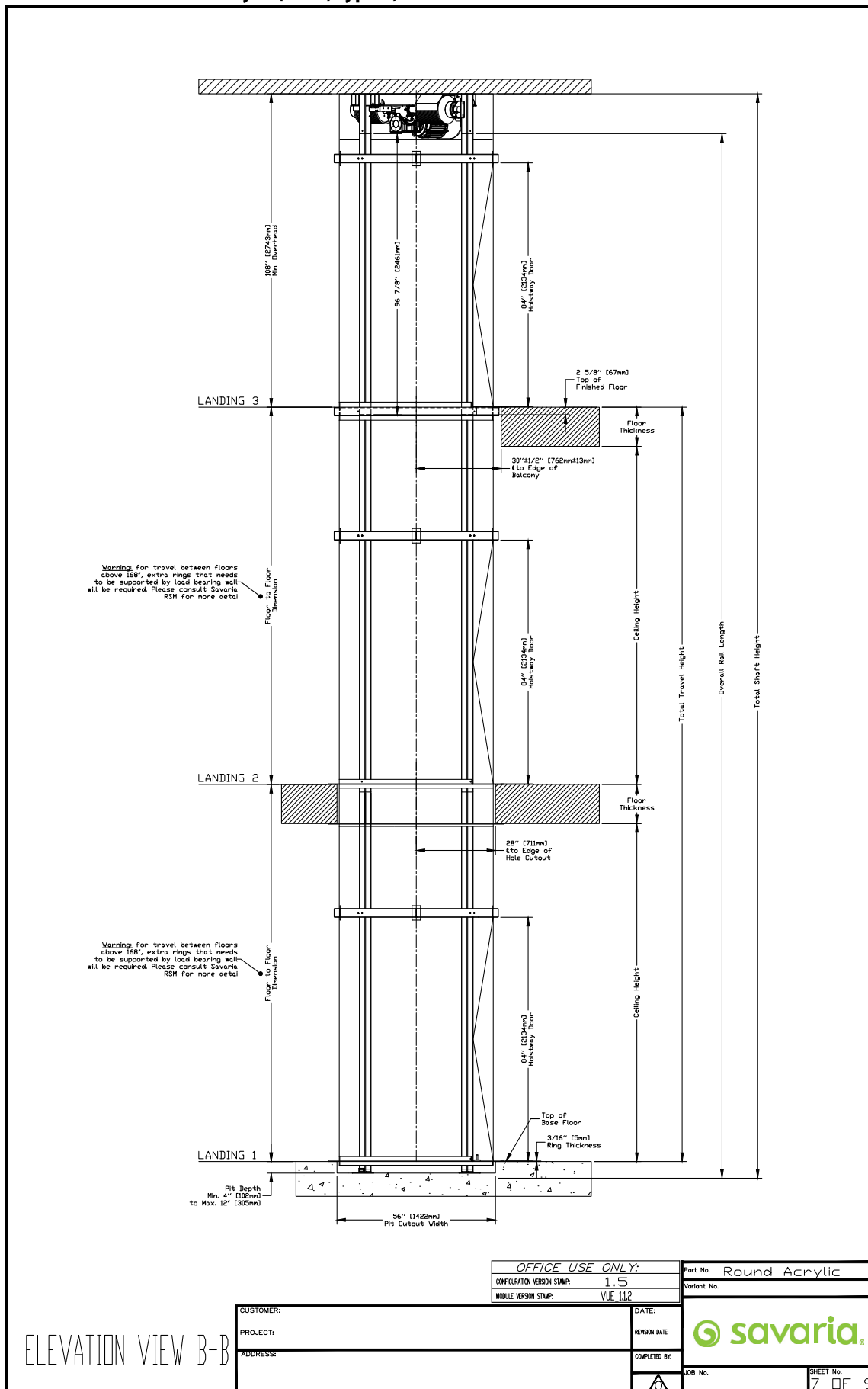


Figure 12: Pit cutout detail - round acrylic (RAM) type 1, 2 or 3

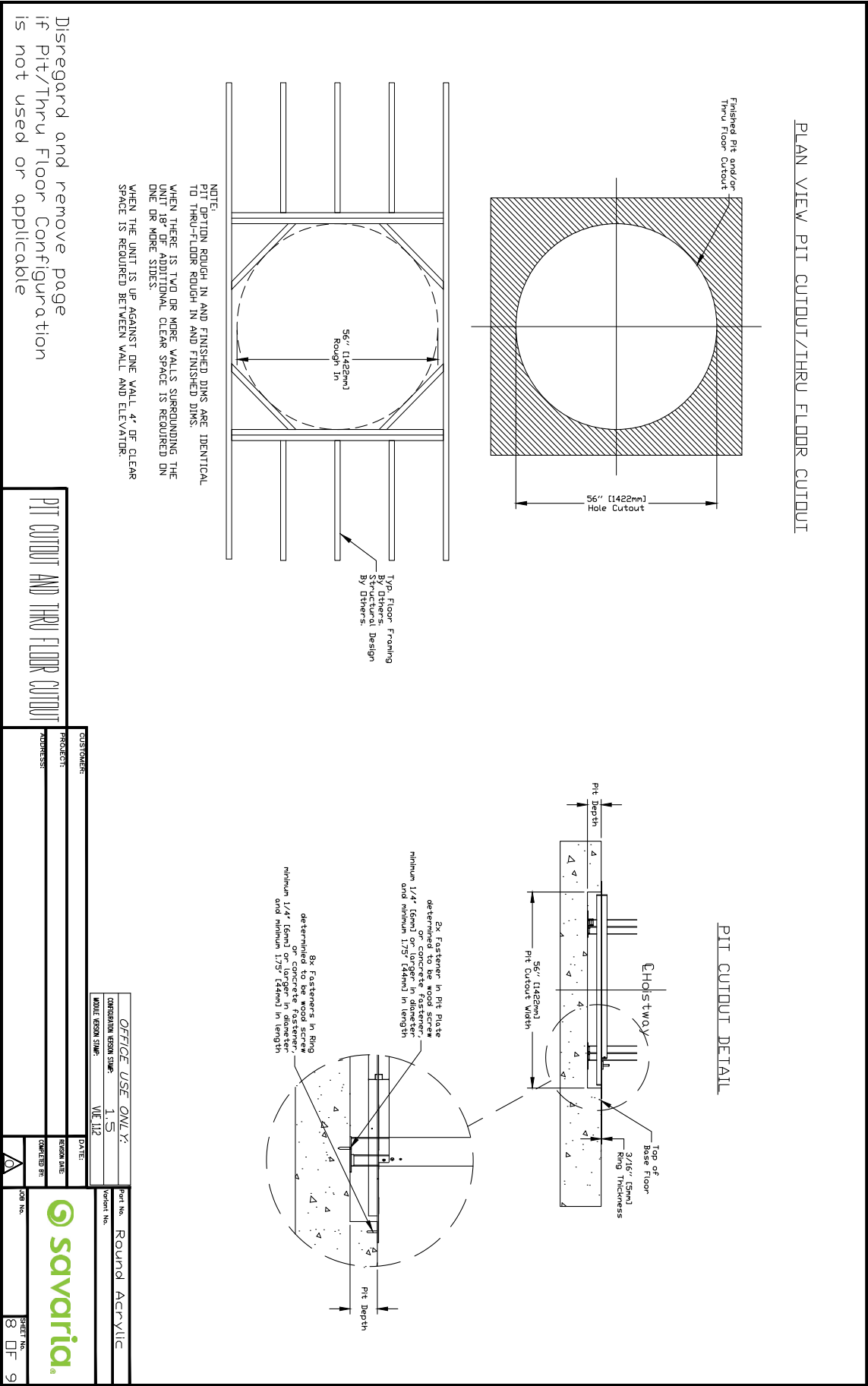


Figure 13: Datasheet - round acrylic (RAM) type 1, 2 or 3

| PROVISIONS BY OTHERS   |                    |   |                |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
|--|--------------------|---|----------------|-----------------------------|-----------------|-------------------------|--------------------|-----------------------------|------------------|---------------|---------|---------------|----------------|----------------|----------------|------------|---------|---------|--------|-----------|----|------------|---------|---------------------|-----|--------|----|---------------|----|----|----|-----------------------|-------------|------------------|---------------|
| <p><b>*GENERAL</b><br/>CONSTRUCTION SITE OVERSEER/AGENT TO PROVIDE ALL MASONRY, CARPENTRY AND FINISHES. UNFINISHED FLOORS SHALL BE IN FINISHED STATE PRIOR TO INSTALLATION OF UNIT.<br/>DIMENSIONS: CONTRACTOR/OWNER TO VERIFY. ALL DIMENSIONS DIMENSIONS PRIOR TO UNIT DELIVERY.</p> <p><b>*STRUCTURAL</b><br/>FLOOR LOADS: STRUCTURAL ENGINEER TO ASSURE THAT BUILDING WILL SAFELY BEARING FOR PIT/FLOOR LOADS IMPOSED BY THE EQUIPMENT.</p> <p><b>*ELECTRICAL</b><br/>POWER SUPPLY (SEE SPECIFICATIONS BELOW): LOCKABLE FUSED DISCONNECTS INSTALLED IN COMPLIANCE WITH ELECTRICAL CODE TO BE PROVIDED PRIOR TO INSTALLATION. ELECTRICAL WIRING TO LIFT UNIT MUST BE PROVIDED TO CONTROLLER ELECTRICAL GFCI OUTLET IN HOISTWAY PIT IF REQUIRED.<br/>PERMANENT POWER: BEFORE INSTALLATION CAN BEGIN, PERMANENT POWER MUST BE SUPPLIED.</p> <p><b>HANDRAILS:</b> ALL BALCONY LEVELS REQUIRE HANDRAILS TO BE INSTALLED PER LOCAL CODES. HANDRAILS SHALL BE PROVIDED BY CONTRACTOR/CUSTOMER. SAVARIA AND/OR LOCAL INSTALLER ARE NOT RESPONSIBLE FOR HANDRAIL INSTALLATION OR MATERIALS.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>POWER SUPPLY SPECIFICATIONS</th> <th>DISCONNECT SIZE</th> <th>FUSE SIZE</th> <th>VOLTS</th> <th>PHASE</th> <th>AMPERAGE</th> </tr> </thead> <tbody> <tr> <td>MOTOR &amp; EQUIP</td> <td>30 AMPS</td> <td>30 AMPS</td> <td>230</td> <td>SINGLE</td> <td>20.2 AMPS</td> </tr> <tr> <td>CAB LIGHTS</td> <td>15 AMPS</td> <td>15 AMPS</td> <td>115</td> <td>SINGLE</td> <td>-</td> </tr> <tr> <td>PIT LIGHTS</td> <td>15 AMPS</td> <td>15 AMPS</td> <td>115</td> <td>SINGLE</td> <td>-</td> </tr> </tbody> </table> <p>TELEPHONE CIRCUIT SHALL BE BROUGHT TO A LOCATION NEXT TO THE CONTROLLER AND BE AVAILABLE TO CONNECT AND TEST UPON ELEVATOR INSTALLATION.<br/>OPTIONS:<br/>1. SAVARIA LINK WITH ANTENNA: REQUIRES WIRELESS SIGNAL WITH INTERNET CAPABILITY IN THE VICINITY OF UNITS CONTROLLER.<br/>2. SAVARIA LINK WITH ETHERNET: ENSURE THAT YOU HAVE AN ETHERNET CONNECTION WITH INTERNET CAPABILITY IN THE VICINITY OF UNITS CONTROLLER.<br/>3. NO SAVARIA LINK: NO SPECIAL REQUIREMENT</p>  |                    |   |                | POWER SUPPLY SPECIFICATIONS | DISCONNECT SIZE | FUSE SIZE               | VOLTS              | PHASE                       | AMPERAGE         | MOTOR & EQUIP | 30 AMPS | 30 AMPS       | 230            | SINGLE         | 20.2 AMPS      | CAB LIGHTS | 15 AMPS | 15 AMPS | 115    | SINGLE    | -  | PIT LIGHTS | 15 AMPS | 15 AMPS             | 115 | SINGLE | -  |               |    |    |    |                       |             |                  |               |
| POWER SUPPLY SPECIFICATIONS  | DISCONNECT SIZE    | FUSE SIZE   | VOLTS          | PHASE                       | AMPERAGE        |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| MOTOR & EQUIP  | 30 AMPS            | 30 AMPS   | 230            | SINGLE                      | 20.2 AMPS       |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| CAB LIGHTS   | 15 AMPS            | 15 AMPS   | 115            | SINGLE                      | -               |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| PIT LIGHTS   | 15 AMPS            | 15 AMPS   | 115            | SINGLE                      | -               |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| <p><b>GENERAL</b><br/>CLASSIFICATION: Residential Building<br/>APPLIED CODE: ASME 17.1-2013 SEC. 5.3<br/>VALUET: Clear Acrylic - ANSI Z97.1<br/>NUMBER OF FLOORS: 6 Max<br/>MODEL: Clear Acrylic<br/>CAPACITY: 840lbs (381kg)<br/>NOMINAL SPEED: 32 fpm (0.16 m/s) UP AND DOWN<br/>TOTAL TRAVEL: 49' 13 1/2" 12m<br/>CAB FLOOR AREA: 49' 13 1/2" 12m<br/>CAB HEIGHT: 650 lb (295 kg)<br/>PIT DEPTH (OPTION): 60 Hz Single Phase 240 volt (60Hz)<br/>POWER SUPPLY: Automatic Dp. Bi-Fold(s)<br/>CAB DOOR: 2 Type A Instantaneous Safeties in compliance with ASME A17.1 Sections 2.10.8.1 &amp; 117.5.1<br/>SAFETY: Mfg Savaria T7/NV460001-70</p> <p><b>SUSPENSION:</b><br/>TYPE: Galvanized Aircraft Cable 2x3/8" dia<br/>CONSTRUCTION: 1WRC 7 x 19 RHRL<br/>NOMINAL STRENGTH: 14,400 lbs (6531 kg)<br/>W.T. OF ROPES: 0.243 lbs/ft (3.616 g/cm)<br/>TRAVEL CABLE W.T: 0.228 lbs/ft (3.393 g/cm)</p> <p><b>DRIVE/TRAIN:</b><br/>TYPE: Winding Drum<br/>MOTOR: 5 HP (3.5kW)<br/>TRANSMISSION: Ultra-Low Vibration 3-Stage Right Angle Helical-Bevel Drive<br/>MOTOR CONTROL: Ultra-Low Vibration 3-Stage Right Angle Helical-Bevel Drive<br/>DOOR INTERLOCKS: X-Frame Locks - 10-15' in compliance with ASME A17.1 Sections 2.12.4.3<br/>PIT/FLOOR LOAD: (m of Hoistway*67) + (# of Floors*13) + 1002 Dead Load (lbs)<br/>(m of Hoistway*67) + (# of Floors*13) + 1002 Dead Load (kg)</p> <p><b>Based on this configuration:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>LOWER FLOOR DEAD LOAD</td> <td></td> </tr> <tr> <td>LOWER FLOOR IMPACT LOAD</td> <td>4452 lbs (2019 kg)</td> </tr> <tr> <td>MID FLOOR MAX. LATERAL LOAD</td> <td>250 lbs (113 kg)</td> </tr> </tbody> </table> <p>* SEE ELEVATION VIEW FOR ADDITIONAL HEADER RING TO SUPPORT EXTRA LONG FLOOR TO FLOOR OPTIONS:<br/>BUCK BOOSTER: Required if input power supply is not 240 volt AC<br/>BUFFER SPRING: if applicable for habitable space below Min. pit 4'<br/>CAR TOP INSPECTION:<br/>COLDR: Distance between Head Frame and Control Room<br/>CONDUCTOR CABLE: Internal or External to Hoistway<br/>CONTRACTOR LOCATION: Internal or External to Hoistway<br/>HANDRAILS: Factory Cut (GLASS/ACRYLIC) Cut on site or Factory cut<br/>FLOOR SWITCH: Manual or Hydraulics Landing Doors<br/>LANDING DOOR CLOSER: Stainless Steel (Standard)<br/>LANDING DOOR HANDLE: Stainless Steel (Standard)</p> |                    |   |                | LOWER FLOOR DEAD LOAD       |                 | LOWER FLOOR IMPACT LOAD | 4452 lbs (2019 kg) | MID FLOOR MAX. LATERAL LOAD | 250 lbs (113 kg) |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| LOWER FLOOR DEAD LOAD  |                    |   |                |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| LOWER FLOOR IMPACT LOAD  | 4452 lbs (2019 kg) |   |                |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| MID FLOOR MAX. LATERAL LOAD  | 250 lbs (113 kg)   |   |                |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| <p><b>FIRST DOOR BY LANDING CHART</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>LANDING 1</th> <th>LANDING 2</th> <th>LANDING 3</th> </tr> </thead> <tbody> <tr> <td>DOOR TYPE</td> <td>Side A</td> <td>Side B</td> <td>Side C</td> </tr> <tr> <td>ENTRANCE SIDE</td> <td>LH or RH Swing</td> <td>LH or RH Swing</td> <td>LH or RH Swing</td> </tr> <tr> <td>DOOR SWING</td> <td>X Lock</td> <td>X Lock</td> <td>X Lock</td> </tr> <tr> <td>LOCK TYPE</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td>HAL CALL KEY SWITCH</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td>FLUSH MOUNTED</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td>LANDING CONFIGURATION</td> <td>Pit or Ramp</td> <td>Thru Floor Shown</td> <td>Balcony Shown</td> </tr> </tbody> </table>   |                    |   |                |                             | LANDING 1       | LANDING 2               | LANDING 3          | DOOR TYPE                   | Side A           | Side B        | Side C  | ENTRANCE SIDE | LH or RH Swing | LH or RH Swing | LH or RH Swing | DOOR SWING | X Lock  | X Lock  | X Lock | LOCK TYPE | NO | NO         | NO      | HAL CALL KEY SWITCH | NO  | NO     | NO | FLUSH MOUNTED | NO | NO | NO | LANDING CONFIGURATION | Pit or Ramp | Thru Floor Shown | Balcony Shown |
|  | LANDING 1          | LANDING 2   | LANDING 3      |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| DOOR TYPE  | Side A             | Side B  | Side C         |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| ENTRANCE SIDE  | LH or RH Swing     | LH or RH Swing  | LH or RH Swing |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| DOOR SWING   | X Lock             | X Lock  | X Lock         |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| LOCK TYPE  | NO                 | NO  | NO             |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| HAL CALL KEY SWITCH  | NO                 | NO  | NO             |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| FLUSH MOUNTED  | NO                 | NO  | NO             |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| LANDING CONFIGURATION  | Pit or Ramp        | Thru Floor Shown  | Balcony Shown  |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| <p><b>DATA SHEET</b></p>   |                    |   |                |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| <p>CUSTOMER: _____</p> <p>PROJECT: _____</p> <p>ADDRESS: _____</p>   |                    | <p>DATE: _____</p> <p>REVISION DATE: _____</p> <p>COMPLETED BY: _____</p> <p>SAFETY: </p>         |                |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |
| <p>OFFICE USE ONLY:</p> <p>CONFIGURATION VERSION: 1.5</p> <p>WIRELESS VERSION: VUE 112</p>   |                    | <p>Part No. _____</p> <p>Model No. _____</p> <p>Round Acrylic</p> <p></p> <p>SHEET No. 9 OF 9</p> |                |                             |                 |                         |                    |                             |                  |               |         |               |                |                |                |            |         |         |        |           |    |            |         |                     |     |        |    |               |    |    |    |                       |             |                  |               |

**ENTRANCE SIDE LEGEND**

SIDE A

SIDE D

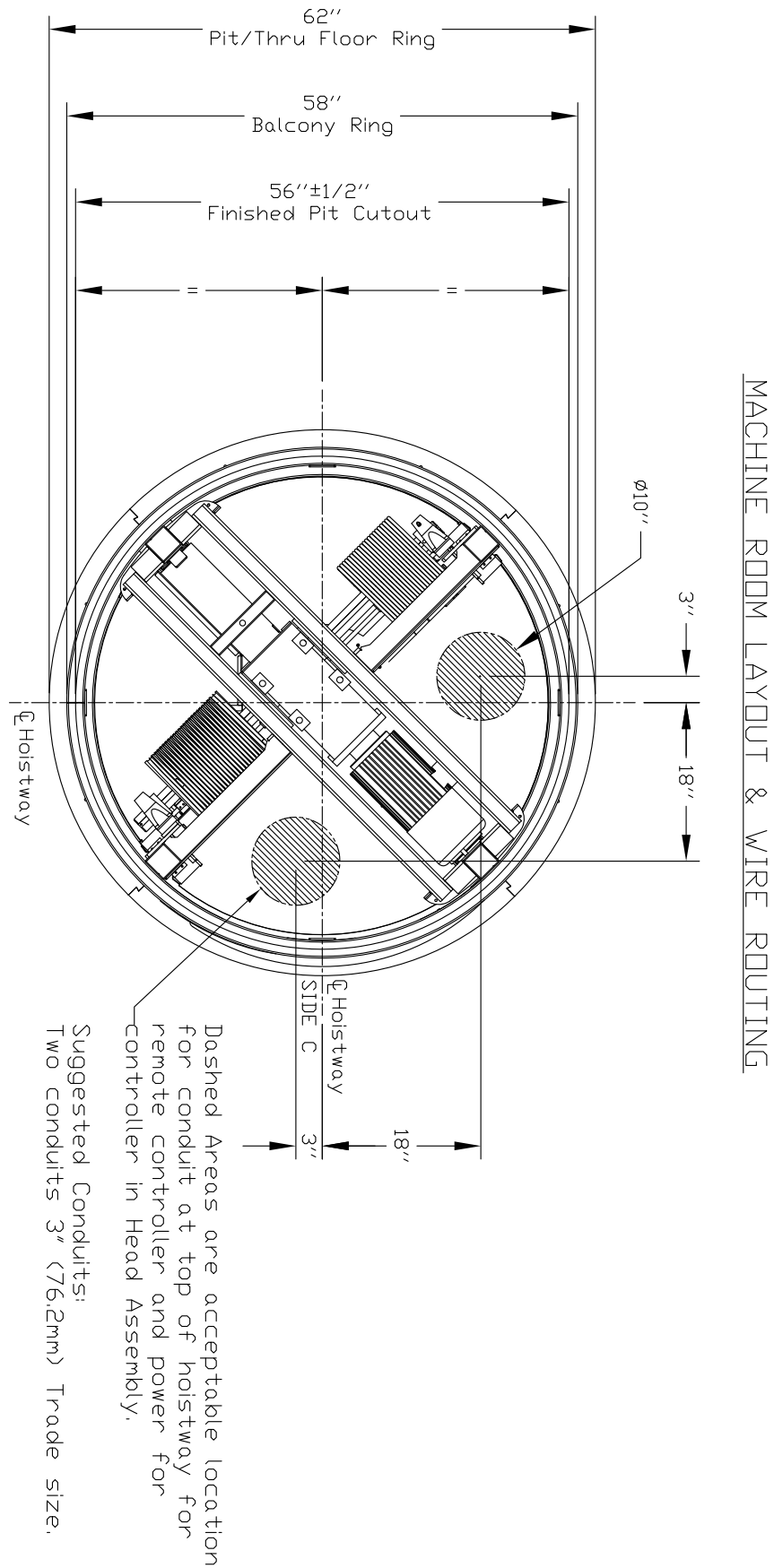
SIDE C

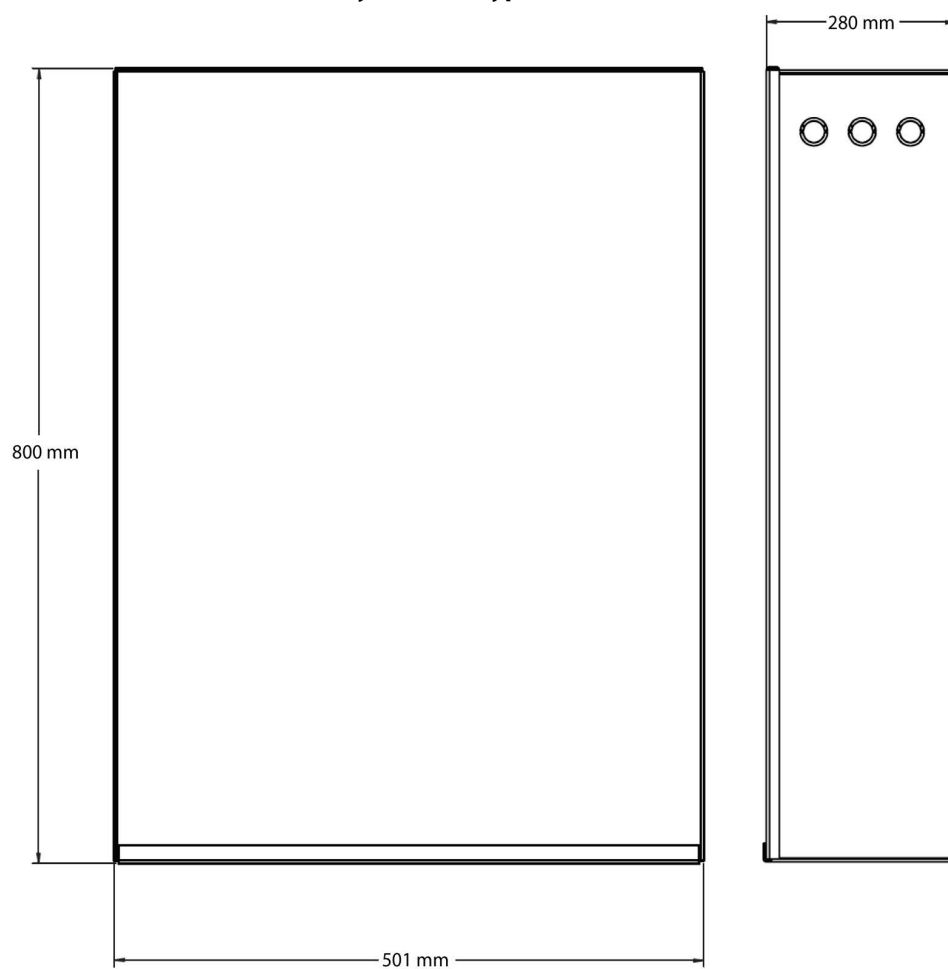
PLATFORM

TOP LEVEL

SIDE B



**Figure 14: Machine room layout and wire routing - round acrylic (RAM) type 1, 2 or 3**


**Figure 15: Controller box dimensions- round acrylic (RAM) type 1, 2 or 3**

# Chapter 2: Octagonal Acrylic (OAM) & Octagonal Glass (OGM)



## Specifications - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

| Specification                          | Specification Data  |
|--|---|
| Load capacity                          | Acrylic model: 840 lb (381 kg)<br>Silica glass model: 950 lb (432 kg)   |
| Maximum travel                         | 50 ft (15.24 m); 55 ft (16.76 m) where a variance is possible   |
| Travel speed                           | Acrylic model: 32 ft/min (0.16 m/s)<br>Silica glass model: 40 ft/min (0.20 m/s)   |
| Noise level (for typical installation) | 65 dB   |
| Daily cycle                            | Normal: 40<br>Heavy: 80<br>Excessive: 150<br>Maximum starts in 1 hour on standard installation: 20<br>NOTE: Please consult your Sales Representative if there a chance you may exceed these amounts.  |
| Maximum levels serviced                | 6   |
| Minimum overhead                       | 108" (2743mm) for 84" (2130mm) cab<br>104" (2641mm) for 80" (2032mm) cab<br>96" (2438mm) for 76.5" (1943mm) cab   |
| Cab                                    | Cab walls: Full clear acrylic or silica glass<br>Cab interior height (standard): 84 in (2.13 m)<br>Cab interior height (optional): 80in (2.03 m)<br>Cab interior height: 76.5in (1.94 m)<br>Cab weight (acrylic): 650 lb (295 kg)<br>Cab weight (silica glass): 1050 lb (476 kg)<br>Cab floor area: 12 sq ft (1.2 sq m) |
| Floor by others (in cab)               | 3/4" (19 mm) maximum  |
| Footprint                              | Octagonal acrylic medium: 47.8" x 47.8" (1.21 m x 1.21 m)<br>Octagonal glass medium: 49" x 49" (1.24 m x 1.24 m)  |
| Power supply                           | 30A, 230-V, single-phase, 50/60 Hz  |
| Cab lighting                           | 15A, 115V, single-phase, 50/60 Hz   |
| Suspension                             | Type: Galvanized aircraft cable (2 x 3/8" diameter)<br>Construction: IWRC 7 x 19 RHRL<br>Nominal strength: 14,400 lb (6,545 kg)<br>Weight of ropes: 0.243 lb/ft (3.616 g/cm)<br>Travel cable weight: 0.228 lb/ft (3.393 g/cm)   |
| Drive train                            | Type: Winding drum<br>Motor: 5.0HP (3.5 KW) with integrated brake<br>Transmission: low vibration, worm gear drive<br>Motor control: Preprogrammed variable frequency drive<br>Door interlocks: Xtronics   |
| Pit/floor load                         | Refer to the section "Load Calculations"  |
| Distance between 2 landings            | 93.5" (2375 mm) minimum   |
| Pit depth                              | 4" - 12" (102 mm - 305 mm)<br>No pit with optional short ramp   |

| Specification                             | Specification Data   |
|---|--|
| Temperature operating range (environment) | - 10°C to + 40°C / 14°F to 104°F<br><b>NOTE:</b> For optimal running conditions, each landing of the unit should be in a climate-controlled environment.   |
| Safety features                           | Pit run/stop switch and car top run/stop switch<br>Emergency stop switch<br>Safety brakes<br>Electrical circuit overspeed<br>Manual lowering<br>Emergency battery back-up for cab lighting and lowering  |
| Options                                   | Optional configurations: Type 2, 3R, 6<br>Optional cab wall and hoistway: Acrylic or low-iron silica glass<br>Optional colors:<br><ul style="list-style-type: none"> <li>• White (Texture White PX521W859)</li> <li>• Silver (Texture Silver PX521S343)</li> <li>• Custom powder-coat frame</li> </ul> Note that Black is the standard color (Texture Black PX622N365)<br>Other options: Up to 6 stops, balcony attachment<br>Savaria Link remote monitoring (Vuelift Micro-6 only)<br>Landing door handle painted to match unit<br>Top header ring in sheet metal painted to match unit |

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## Safety First - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

### 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 door and the hoistway edge of the landing sill shall not exceed 0.75" (19 mm).
- Distance between the hoistway face of the landing door and the car door shall not exceed 4" (102 mm).
- Vuelift Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

## Electrical Requirements - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

Your electrician and phone installer must supply the following connections:

- Main Disconnect - One 230V single-phase, 30 Amp fused disconnect box with 30 Amp fuse/breaker. If voltage is not 230V minimum, a buck-boost transformer is required.
- Lighting Disconnect - One 120V, 15 Amp fused disconnect or circuit breaker for cab lighting.
- Telephone Line - One telephone line jack in close proximity to the controller.
- Electrical Outlet - One 15A GFCI outlet shall be installed near the pit or base ring.

**NOTE:** Savaria does not provide power cable to main disconnect.

### Recommended Manufacturers for Fused Disconnect

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### G.E.

- 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, 30 Amp, RK5 fuses.
- Lighting disconnect - 120V, 15 Amp fused disconnect or circuit breaker.

#### Cutler Hammer

- Main disconnect: 230V single-phase disconnect model # DH221NGK.  
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).  
In addition, two each - 250V, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

**Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel itself): Square D or Siemens only.**

# Provisions By Others - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

## General Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

## Dimensions

The contractor/customer must verify all clearance dimensions prior to delivery of the unit.

## Structural Floor Loads

A structural engineer is required to ensure that the building will safely support all loads imposed by the lift equipment. Refer to the tables on the installation drawings (shop drawings) for pit/floor loads imposed by the equipment. Refer to the section, Load Calculations.

## Electrical Power Supply

See the following table. Lockable fused disconnects must be installed in compliance with electrical code and are to be provided prior to installation of the unit. Roughed in power to the lift must be provided to the head assembly location prior to installation of the unit.

| Power Supply Specifications | Disconnect Size | Time Delay Fuse Size | Volts     | Phase  |
|-----------------------------|-----------------|----------------------|-----------|--------|
| Motor and equipment         | 30 Amps         | 30 Amps              | 230 Volts | Single |
| Cab lights                  | 15 Amps         | 15 Amps              | 115 Volts | Single |
| Pit light                   | 15 Amps         | 15 Amps              | 115 Volts | Single |

## Telephone

If a telephone circuit is required, the jack is to be provided and installed by others. This circuit shall be brought to a location next to the controller and be available to connect and test upon elevator installation.

## Electrical Outlet

One 15-Amp GFCI outlet shall be installed near the pit or base ring.

## Permanent Power

Before installation can begin, permanent power must be supplied.

## Entrances Handrails

All balcony levels require handrails to be installed per local codes after installation is completed. The handrail and installation is to be provided by the contractor/customer. Savaria Concord Lifts Inc. and/or local installer are not responsible for handrail installation or materials.

## Savaria Link Option (Vuelift Micro-6 Only)

If you have the Savaria Link Ethernet remote monitoring option, ensure that you have an Ethernet connection with Internet capability in the vicinity of the unit's controller.

If you have the Savaria Link Wireless remote monitoring option, ensure that you have a wireless signal with Internet capability in the vicinity of the unit's controller.



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## Site Preparation - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

The following items **MUST** be completed prior to installation of the elevator.

### Finished Floors

- Finished floors be installed at all landing levels.

### 230V Power (with Switched Disconnect)

- Permanent 230V, single-phase, 30-Ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted in a location within line of sight of the elevator or controller.
- 230V source must be run from the disconnect switch to a junction box in a discrete location at the top of the elevator hoistway location.
- Disconnect must be installed according to all applicable local codes.

### 110V Power (with Switched Disconnect) - 2 are required

- Permanent 110V, single-phase, 15-Ampere dedicated power to a lockable, fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted near the 230V disconnect switch.

### Telephone Works

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your local installer or building contractor for code requirements.

### Electrical Outlet

- One 15-Amp GFCI outlet shall be installed near the pit or base ring.

### Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting Savaria.

### Floor and Pit Cutouts Complete

- If a pit is to be used, a smooth, level surface of at least 4" must be provided. For pit depths greater than 12", contact Savaria to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed.
- Hole in floor, or modified balcony rail as directed by drawings.

### Check Floor to Floor Maximum and Minimum Distances

- 108" (2743mm) for 84" (2133mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration. (standard)
- 104" (2641 mm) for 80" (2032 mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for modified short cab configuration. (optional)
- 96" (2438 mm) for 76.5" (1943 mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for silica glass model. (short)

### Drywall and Painting

- All drywall and painting must be complete.

## Load Calculations - Octagonal Acrylic (OAM)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Vuelift elevators are designed such that the dead load and impact load are transferred to the lowest level through the rail base plates and rings when installed properly in a building with structural integrity including consistent floor to floor heights.
 

Note: Vuelift elevators are designed for applications in buildings that maintain consistent floor to floor height as the building ages.

If floor to floor height changes after installation, the elevator **MUST** be taken out of service pending inspection and correction by a trained installation technician.
- All mid floors including the bottom floor may be subjected to a maximum lateral load of 250 lb.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, these figures DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.
 

Lower Floor Dead Load (lbs) = (45 x feet of hoistway) + (250 x number of floors) + 2210 lbs

Lower Floor Dead Load (Kg) = (67 x meter of hoistway) + (113 x number of floors) + 1002 Kg

Lower Floor Impact Load (lbs) = 4452 lbs (2019 Kg)

Lower Floor Total Load (lbf) = Dead Load + Impact Load

Mid Floor Load (lbf) = 250lbs (113kg)

Shipping Weight (lb) = (694 x number of floors) + 1720

**Note:** Shipping weight includes the actual component weights for all parts, plus shipping crate and packaging weight.

## Load Calculations - Octagonal Glass (OGM)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Each middle floor carries a separate Mid Floor Load supporting only that floor's metal floor rings, while the main cab/hoistway load (Lower Floor Total Load) is transferred fully to the bottom floor.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- All mid floors including the bottom floor may be subjected to a maximum lateral load of 250 lb.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here
- **To reiterate, these figures DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

Lower Floor Dead Load (lbs) = (104 x feet of hoistway) + (365 x number of floors) + 2671 lbs

Lower Floor Dead Load (Kg) = (155 x meter of hoistway) + (166 x number of floors) + 1211 Kg

Lower Floor Impact Load (lbs) = 8350 lbs (3787 Kg)

Lower Floor Total Load (lbf) = Dead Load + Impact Load

Mid Floor Load (lbf) = 250 lbs (113kg)

Shipping Weight (lb) = (1515 x number of floors) + 1804

**Note:** Shipping weight includes all actual part weights for lower and mid floor loads using 12' per floor, plus shipping packaging weight.

**Note:** These equations are based on ACTUAL weight values and contain NO safety factors for floor loading.

Total Load is distributed as follows:

- At any point in time, two opposing columns may have up to 12,000 lbf (6000 lbf/column)
- However, the max load carried by all four column combined will not exceed 16,759 lbf before addition of factor of safety required by local building code.

Mid Floor Loads (on each mid floor) 318

Shipping Weight 6,349.21

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## Drawings - Octagonal Acrylic & Octagonal Glass (OAM & OGM)

### Octagonal Acrylic (OAM)

- Plan view
- Pit view
- Base mount details
- Thru-floor view
- Balcony view
- Balcony plate and handrail information
- Thru-floor details
- Balcony details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Pit cutout/thru-floor cutout
- Datasheet
- Machine room layout and wire routing

### Octagonal Glass (OGM)

- Plan view
- Pit view
- Base mount details
- Thru-floor view
- Balcony view
- Balcony plate and handrail information
- Thru-floor details
- Balcony details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Pit cutout/thru-floor cutout
- Datasheet
- Machine room layout and wire routing

## Model Specifications – Octagonal

### Octagonal Acrylic)

- Capacity: 381kg 840 lb)
- Cab Size: 1.2 sqm (12 sq. ft.)
- Clear Cab Size: 1118w x 1070d 44 x 42.13 in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
  - Acrylic: 1214 x 1214mm (47.8 x 47.8 in.) 1260
  - Pit/Thru Floor Cutout: x 1260mm (49.63 x 49.63 in.) 1304 x
  - Balcony/Header Ring: 1304mm (51.38 x 51.38 in.) 1407 x
  - Pit/Thru Floor Ring: 1407mm (55.38 x 55.38 in.)
- Minimum Overhead Clearance: 2743mm (108 in.)  
for 2133 mm (84 in) cab
- Minimum Overhead Clearance: 2641 mm (104 in.)  
for 2032 mm (80 in.) cab

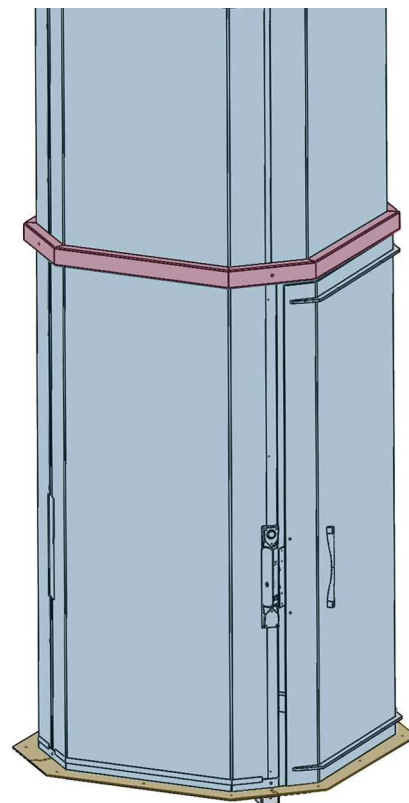
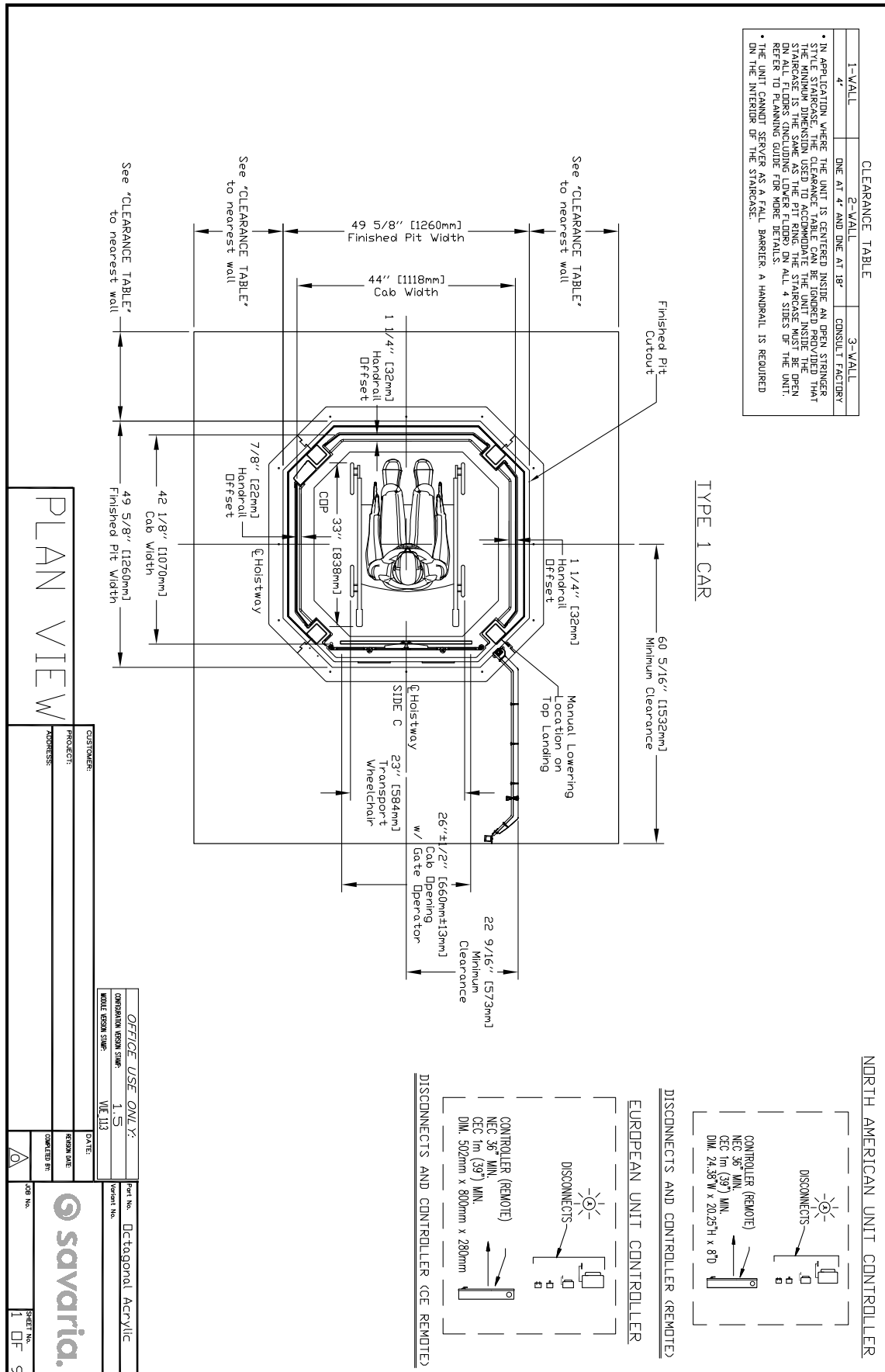


Figure 16: Plan view - octagonal acrylic (OAM) type 1



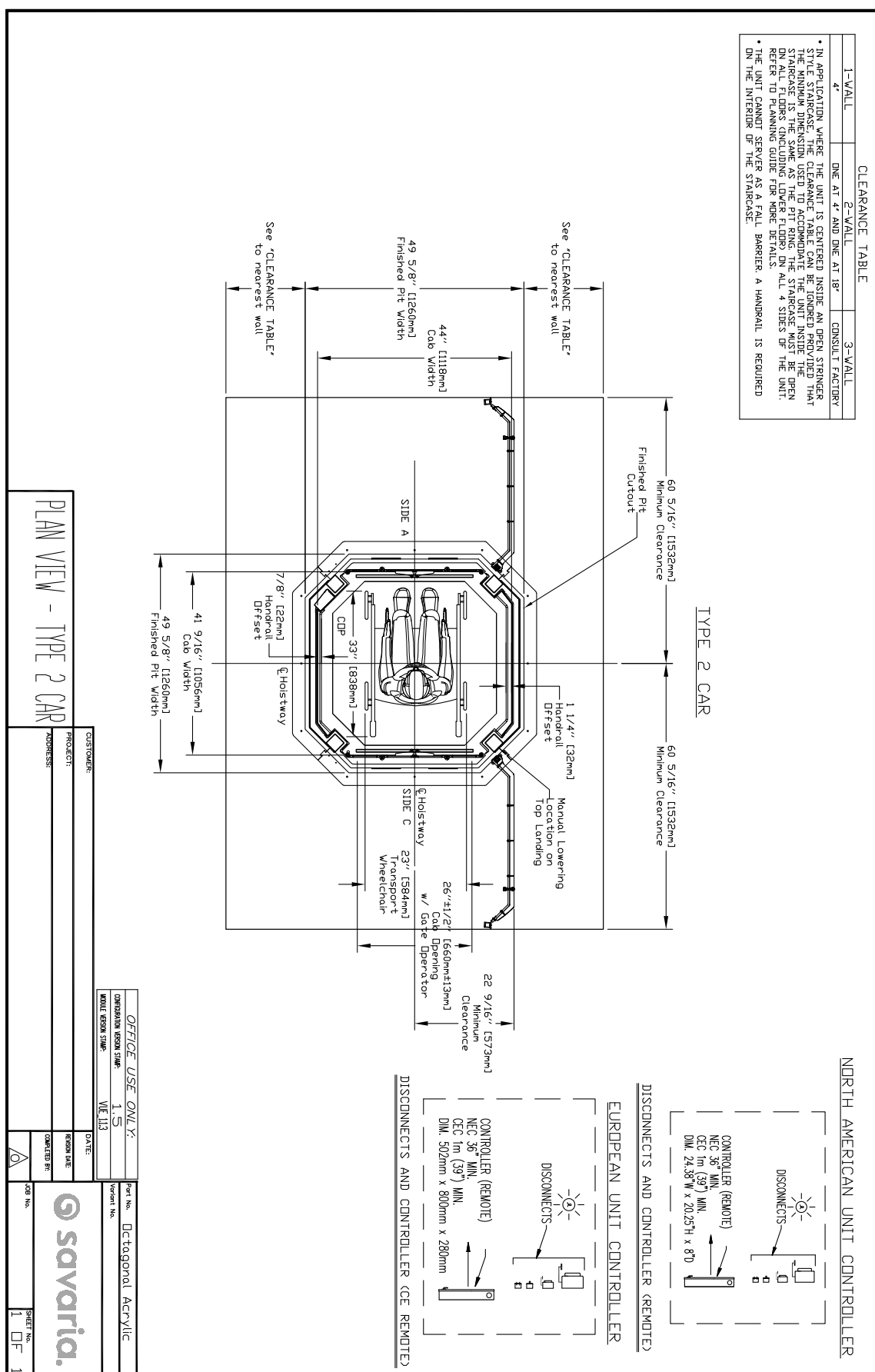


Figure 18: Plan view - octagonal acrylic (OAM) type 3

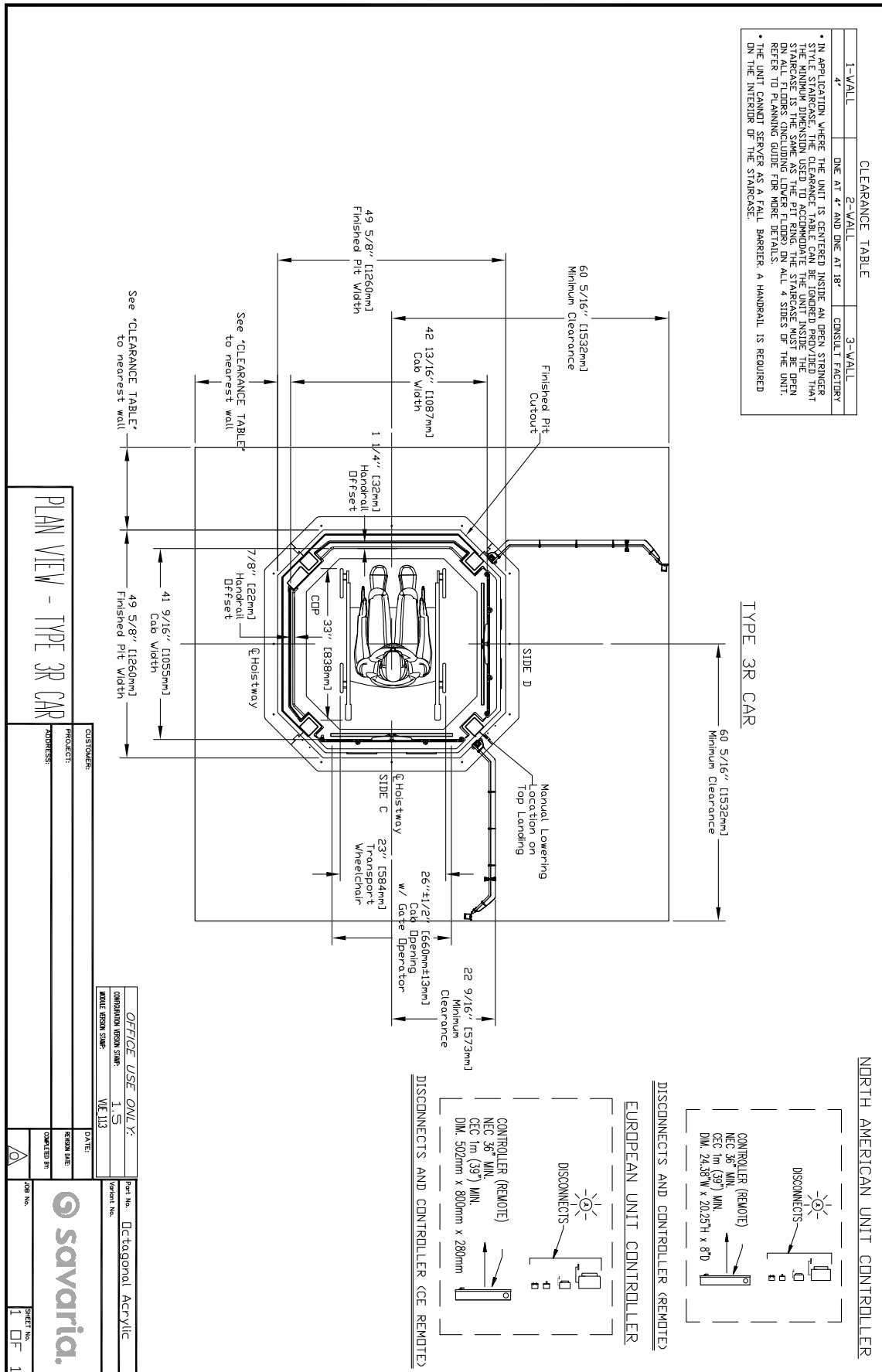
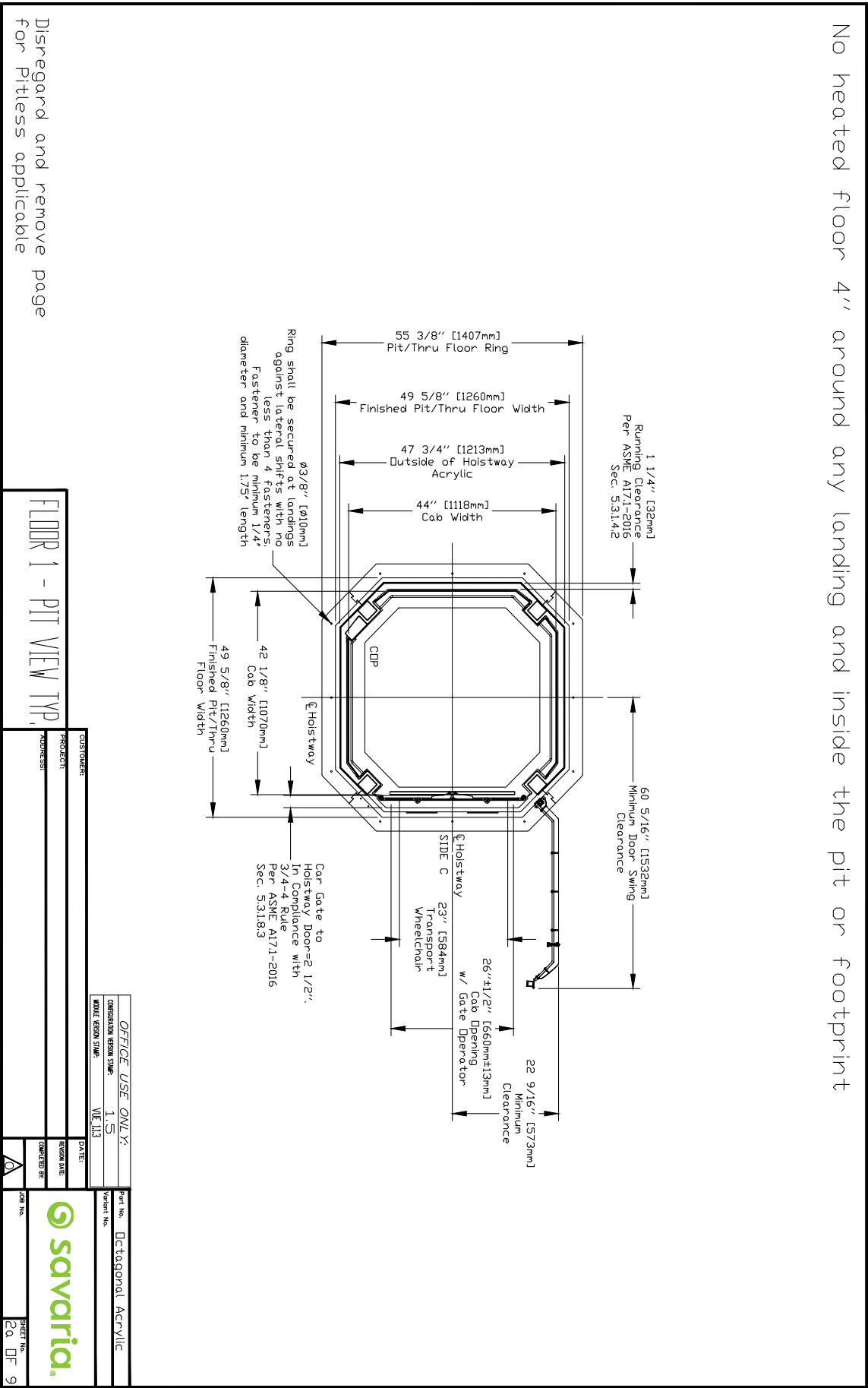
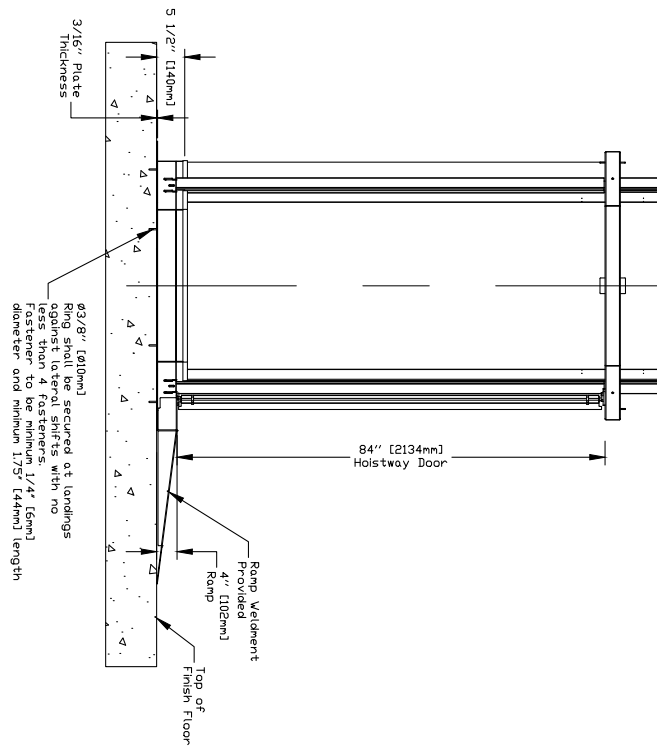




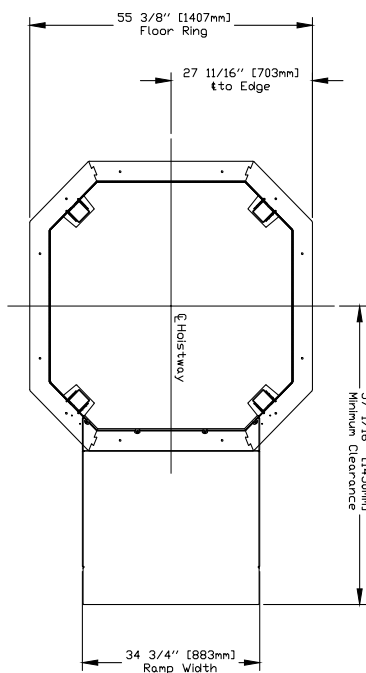
Figure 19: Pit view - octagonal acrylic (OAM) type 1, 2 or 3



### BASE RING CONFIGURATION



BASE RING PLAN VIEW



Disregard and remove page if Base Mount Configuration is not used or applicable

## BASE MOUNT DETAILS



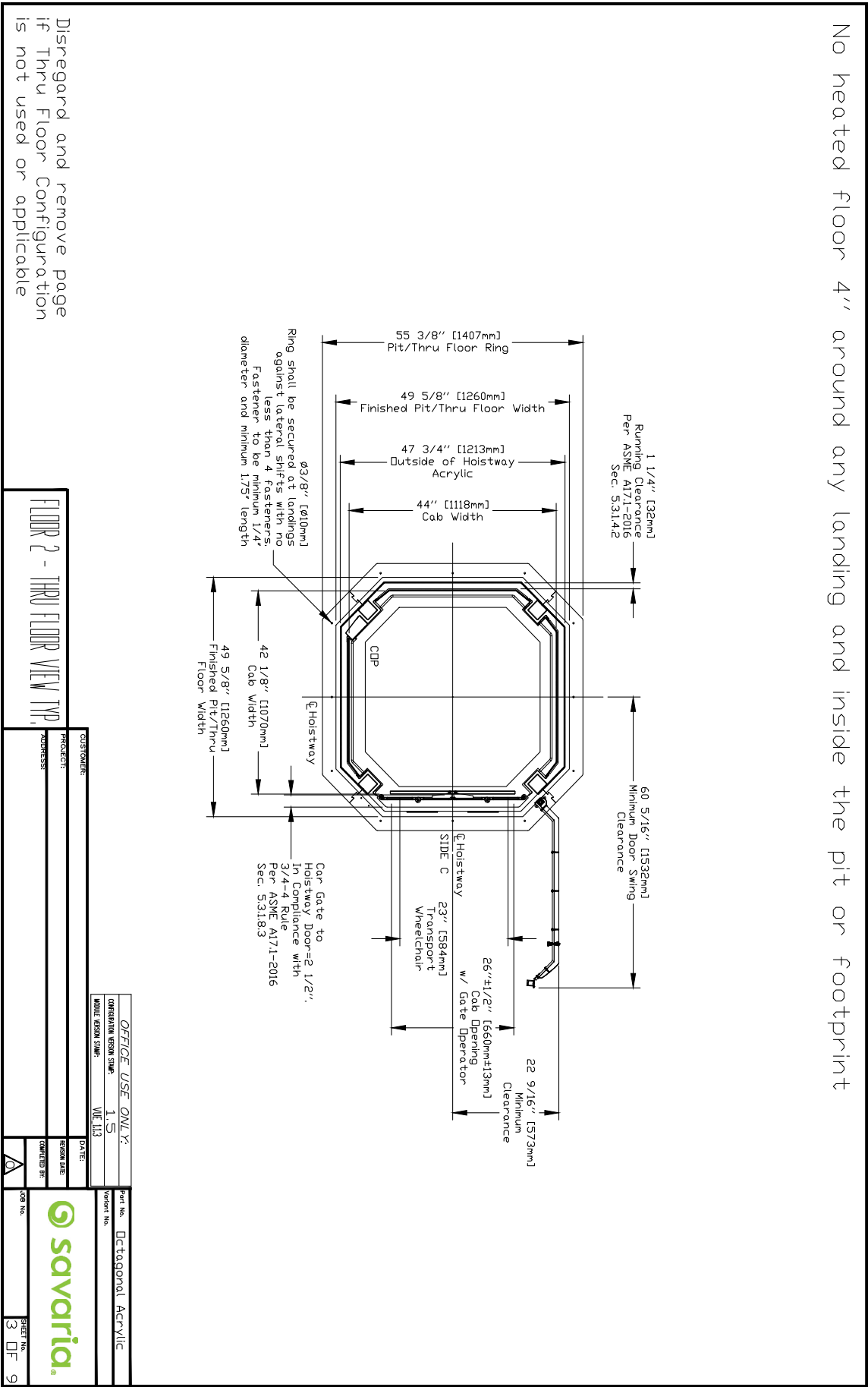
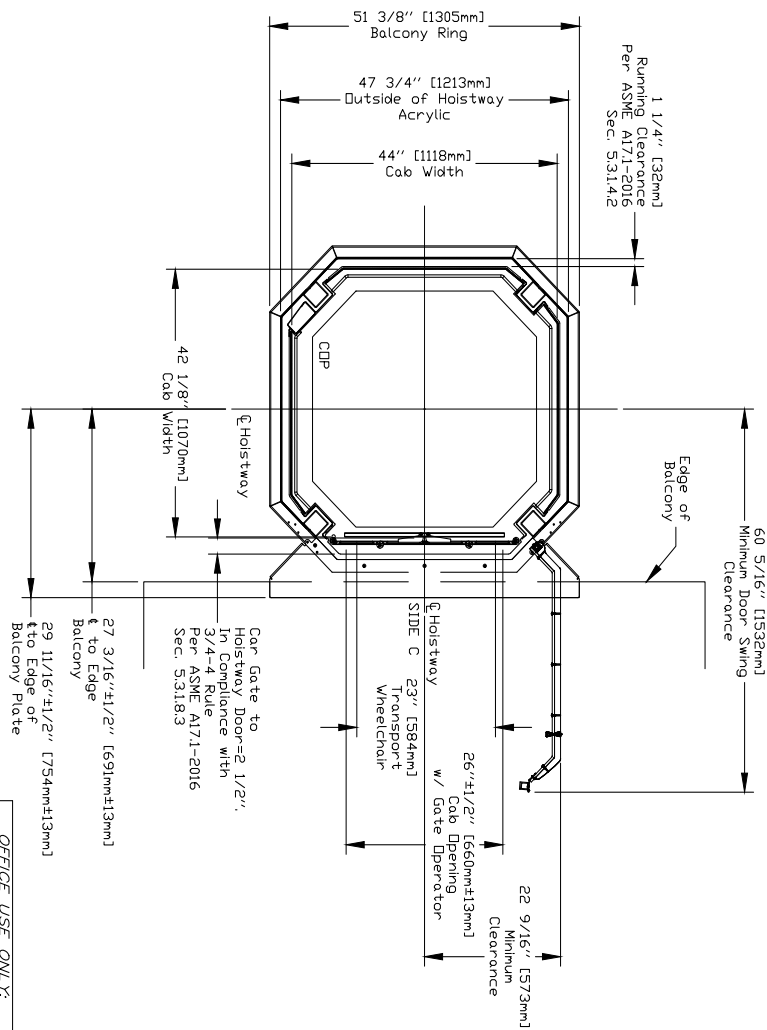
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| OFFICE USE ONLY:   |         |   |                   |                  |  |                              |     |                     |         |       |  |
| CONGRATULATION REGION Stamp:   | 1.5     |   |                   |                  |  |                              |     |                     |         |       |  |
| MODEL REGION Stamp:  | WIE 113 |   |                   |                  |  |                              |     |                     |         |       |  |
| DATE:  |         |   |                   |                  |  |                              |     |                     |         |       |  |
| PROJECT:   |         | REGION DATE:  |                   |                  |  |                              |     |                     |         |       |  |
| ADDRESS:   |         | COMPLETED BY:   |                   |                  |  |                              |     |                     |         |       |  |
|  |         |    |                   |                  |  |                              |     |                     |         |       |  |
|  |         | DOB No.   |                   |                  |  |                              |     |                     |         |       |  |
|  <b>savarida®</b> |         | Part No.  | Octagonal Acrylic |                  |  |                              |     |                     |         |       |  |
|  |         | Product No.   |                   |                  |  |                              |     |                     |         |       |  |
|  |         | Sheet No.   | 26 OF 5           |                  |  |                              |     |                     |         |       |  |

Figure 21: Thru-floor view- octagonal acrylic (OAM) type 1, 2 or 3



Disregard and remove page if Balcony Configuration is not used or applicable




|                             |           |   |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
|-----------------------------|-----------|---|--|---|--|---------|-----------|----------|--|--------------|--|----------|--|---------------|--|---|--|------------------|--|----------|-----------------------|-----|----------------------|---------------------|--------|--------------|
| FLOOR 3 - BALCONY VIEW TYP. |           | <table border="1"> <tr> <td colspan="2">CUSTOMER:</td> <td colspan="2">DATE:</td> </tr> <tr> <td colspan="2">PROJECT:</td> <td colspan="2">REGION DATE:</td> </tr> <tr> <td colspan="2">ADDRESS:</td> <td colspan="2">COMPLETED BY:</td> </tr> </table> |  | CUSTOMER:   |  | DATE:   |           | PROJECT: |  | REGION DATE: |  | ADDRESS: |  | COMPLETED BY: |  | <table border="1"> <tr> <td colspan="2">OFFICE USE ONLY:</td> <td>Part No.</td> </tr> <tr> <td>CONTRACT REGION STATE</td> <td>1.5</td> <td>Digitalprint Acrylic</td> </tr> <tr> <td>MOBILE REGION STATE</td> <td>WE 113</td> <td>Ordering No.</td> </tr> </table> |  | OFFICE USE ONLY: |  | Part No. | CONTRACT REGION STATE | 1.5 | Digitalprint Acrylic | MOBILE REGION STATE | WE 113 | Ordering No. |
| CUSTOMER:                   |           | DATE:   |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
| PROJECT:                    |           | REGION DATE:  |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
| ADDRESS:                    |           | COMPLETED BY:   |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
| OFFICE USE ONLY:            |           | Part No.  |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
| CONTRACT REGION STATE       | 1.5       | Digitalprint Acrylic  |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
| MOBILE REGION STATE         | WE 113    | Ordering No.  |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
|                             |           |    |  | <table border="1"> <tr> <td>JOB No.</td> <td>Order No.</td> </tr> <tr> <td>4 OF 5</td> <td></td> </tr> </table> |  | JOB No. | Order No. | 4 OF 5   |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
| JOB No.                     | Order No. |   |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |
| 4 OF 5                      |           |   |  |   |  |         |           |          |  |              |  |          |  |               |  |   |  |                  |  |          |                       |     |                      |                     |        |              |

Figure 23: Balcony plate and handrail information - octagonal acrylic (OAM) type 1 shown

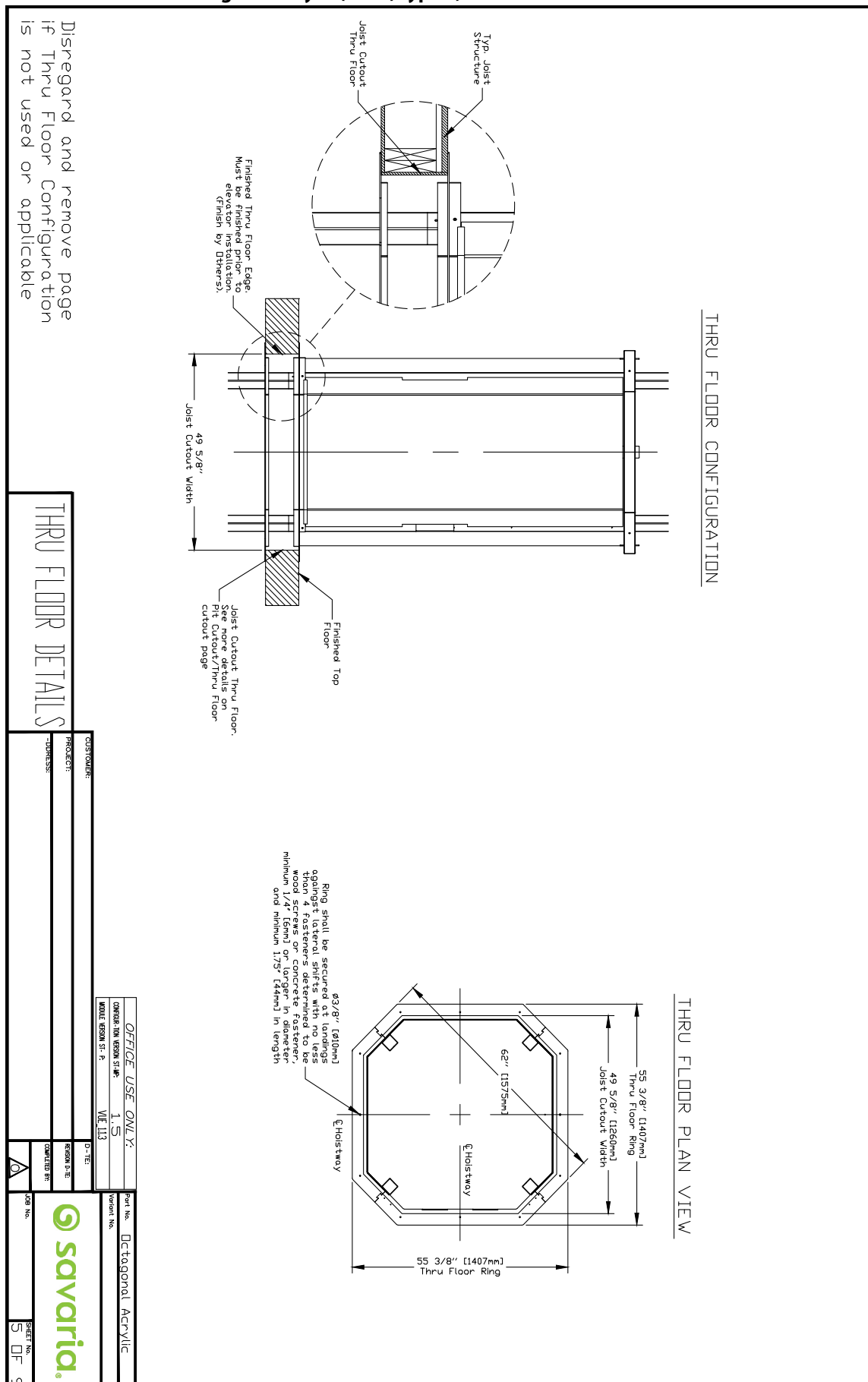


The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft IS 1" (25.4 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

**NOTE:** Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

**Figure 24: Thru-floor details - octagonal acrylic (OAM) type 1, 2 or 3**





**Figure 26: Elevation view - octagonal acrylic (OAM) type 1, 2 or 3**

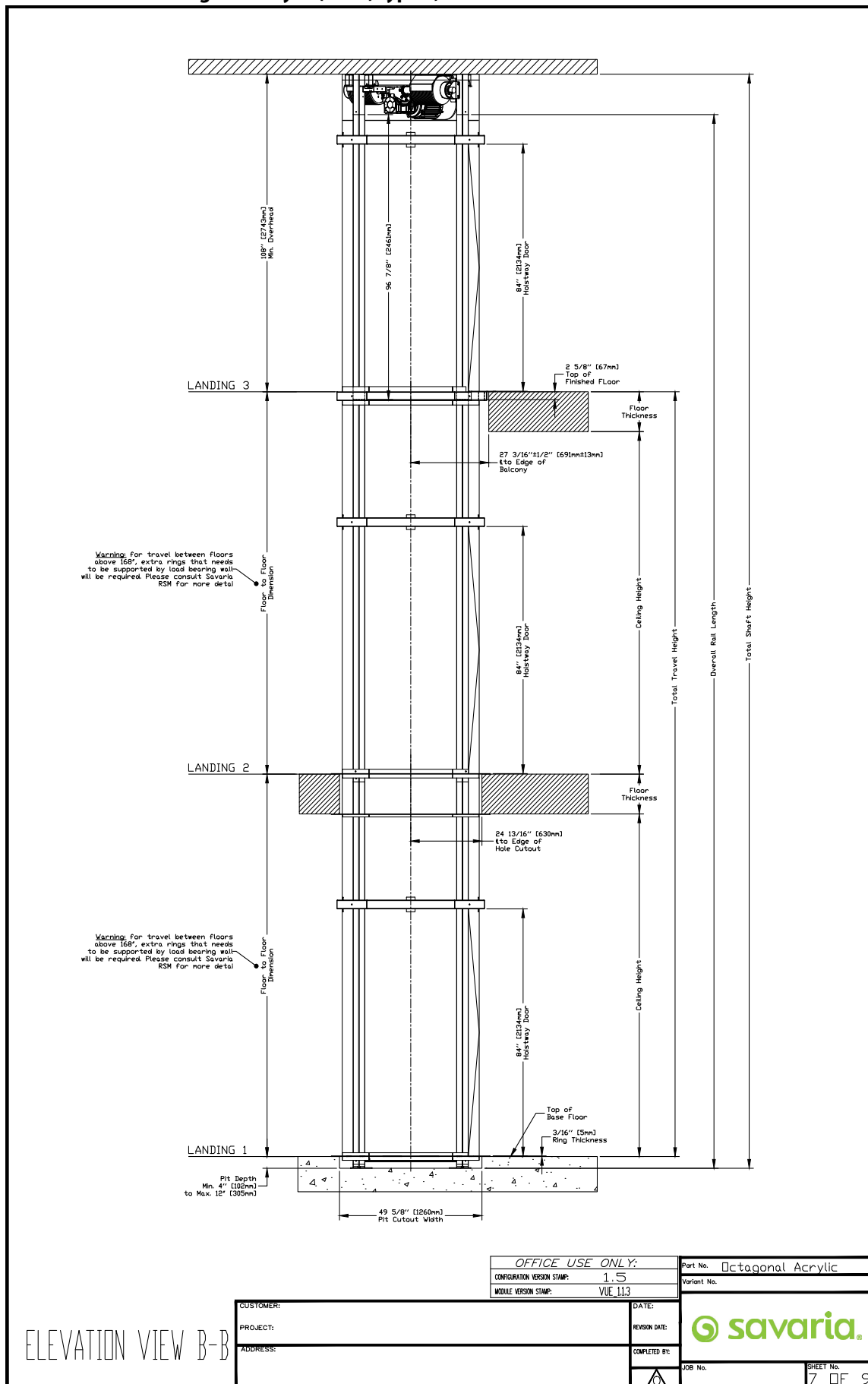
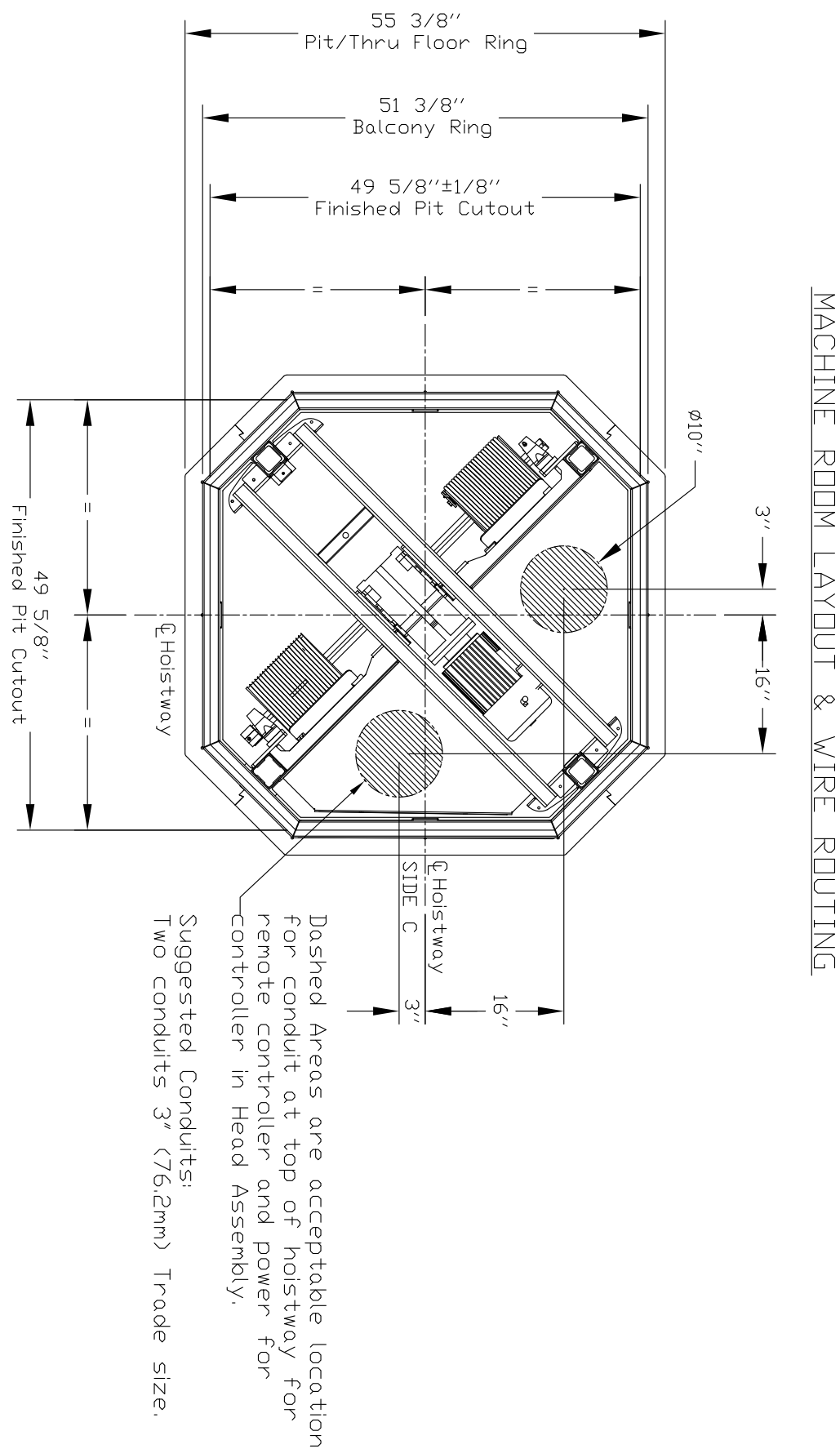






Figure 28: Datasheet - octagonal acrylic (OAM) type 1, 2 or 3

| PROVISIONS BY OTHERS  |                |                     |                |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
|---|----------------|---------------------|----------------|---------------|-----------|-----------|-----------|---------------|----------|---------------|---------|-----------|----------------|----------------|----------------|------------|---------|---------|-----|-----------|----|------------|---------|--------------|-----|--------|---|-----------------------|-------------|---------------------|---------------|
| <p><b>GENERAL</b></p> <p>CONSTRUCTION SITE DIVERGENT TO PROVIDE ALL MASONRY, CARPENTRY AND ELECTRICAL WORK. UNFINISHED FLOORS SHALL BE IN FINISHED STATE PRIOR TO INSTALLATION OF UNIT.</p> <p>DIMENSIONS CONTRACTOR/CUSTOMER TO VERIFY ALL CLEARANCE DIMENSIONS PRIOR TO UNIT DELIVERY.</p> <p><b>STRUCTURAL</b></p> <p>CONCRETE STRUCTURE REQUIRED TO ASSURE THAT BUILDING VIBRATION, SETTLEMENT, STRESS IMPROSE UPON EQUIPMENT BEING TO WALLS ON THIS BEARING FOR PIT/FLOOR LOADS IMPROSE BY THE EQUIPMENT.</p> <p><b>ELECTRICAL</b></p> <p>POWER SUPPLY, CABLE, SWITCHES, DISCONNECTS, FUSES, DISCONNECTS TO BE PROVIDED BY CUSTOMER. ELECTRICAL INSTALLATION TO BE PROVIDED TO CONTROLLER LOCATION PRIOR TO INSTALLATION.</p> <p>ELECTRICAL GFCI OUTLET IN HOISTWAY PIT IF REQUIRED.</p> <p>PERMANENT POWER BEFORE INSTALLATION CAN BEGIN. PERMANENT POWER MUST BE SUPPLIED.</p> <p>HANDRAILS: ALL BALCONY LEVELS REQUIRE HANDRAILS TO BE INSTALLED PER LOCAL CODES. AFTER INSTALLATION IS COMPLETED HANDRAILS TO BE INSTALLED PER LOCAL CODES. AFTER INSTALLATION IS COMPLETED HANDRAILS TO BE INSTALLED PER LOCAL CODES. AFTER INSTALLATION IS COMPLETED HANDRAILS TO BE INSTALLED PER LOCAL CODES.</p> <p><b>POWER SUPPLY DISCONNECT</b></p> <table border="1"> <thead> <tr> <th>SPECIFICATION</th> <th>SIZE</th> <th>FUSE SIZE</th> <th>VOLTS</th> <th>PHASE</th> <th>AMPERAGE</th> </tr> </thead> <tbody> <tr> <td>MOTOR &amp; EQUIP</td> <td>30 AMPS</td> <td>30 AMPS</td> <td>230</td> <td>SINGLE</td> <td>202 AMPS</td> </tr> <tr> <td>CAB LIGHTS</td> <td>15 AMPS</td> <td>15 AMPS</td> <td>115</td> <td>SINGLE</td> <td>-</td> </tr> <tr> <td>PIT LIGHTS</td> <td>15 AMPS</td> <td>15 AMPS</td> <td>115</td> <td>SINGLE</td> <td>-</td> </tr> </tbody> </table> <p>TELEPHONE CIRCUIT SHALL BE BROUGHT TO A LOCATION NEXT TO THE CONTROLLER AND BE AVAILABLE TO CONNECT AND TEST UPON ELEVATOR INSTALLATION.</p> <p>OPTIONS:</p> <ol style="list-style-type: none"> <li>1. SAVARIA LINK WITH ANTENNA</li> <li>2. SAVARIA LINK WITH INTERNET</li> <li>3. SAVARIA LINK WITH INTERNET</li> </ol> <p>3. NO SAVARIA LINK: NO SPECIAL REQUIREMENT</p> |                |                     |                | SPECIFICATION | SIZE      | FUSE SIZE | VOLTS     | PHASE         | AMPERAGE | MOTOR & EQUIP | 30 AMPS | 30 AMPS   | 230            | SINGLE         | 202 AMPS       | CAB LIGHTS | 15 AMPS | 15 AMPS | 115 | SINGLE    | -  | PIT LIGHTS | 15 AMPS | 15 AMPS      | 115 | SINGLE | - |                       |             |                     |               |
| SPECIFICATION   | SIZE           | FUSE SIZE           | VOLTS          | PHASE         | AMPERAGE  |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| MOTOR & EQUIP   | 30 AMPS        | 30 AMPS             | 230            | SINGLE        | 202 AMPS  |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| CAB LIGHTS  | 15 AMPS        | 15 AMPS             | 115            | SINGLE        | -         |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| PIT LIGHTS  | 15 AMPS        | 15 AMPS             | 115            | SINGLE        | -         |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| <p><b>GENERAL</b></p> <p>CLASSIFICATION: Residential Building</p> <p>APPLIED CODE: ASME 17.1-2013 SEC. 5.3</p> <p>VALUET: Clear Acrylic - ANSI Z97.1</p> <p>NUMBER OF FLOORS: 1</p> <p>MODEL: Octagonal Acrylic</p> <p>CAPACITY: 840lbs (381kg)</p> <p>NOMINAL SPEED: 32 fpm (0.16 m/s) UP AND DOWN</p> <p>TOTAL TRAVEL: 44'44" (13.54m)</p> <p>CAB LENGTH: 84" (2.15m)</p> <p>CAB WIDTH: 60" (1.52m)</p> <p>PIT DEPTH (OPTION): 60 Hz Single Phase 240 volt (60Hz)</p> <p>CAB DRIVE: Automatic DP, Br+Tolids</p> <p>SAFETIES: ASME A17.1 Sections 212.81 &amp; 117.51</p> <p>SUSPENSION: Galvanized Aircraft Cable 2x3/8" dia</p> <p>TYPE: 1WRC 7 x 19 RHRL</p> <p>CONSTRUCTION: 14,400 lbs (6531 kg)</p> <p>MINIMAL ROPE LENGTH: 10,440 lbs (4735 kg)</p> <p>TRAVEL CABLE WT: 0.228 lbs/ft (33.99 g/cm)</p> <p>DRIVE/TRAINE: 5" (127mm) Dia</p> <p>MOTOR: Ultra-Low Vibration 3-Stage Right Angle Helical-Bevel Drive</p> <p>TRANSMISSION: Pre-Programmed Variable Freq. Drive</p> <p>MOTOR CONTROL: Xtronics E10983-1901 certified in compliance with</p> <p>DOOR INTERLOCKS: ASME A17.1 Sections 212.4.3</p> <p>PIT/FLOOR LOAD: (n of Hoistwayx67) + (4 of Floorsx113) + 1002 Dead Load (kg)</p> <p>Based on this configuration:</p> <p>LOWER FLOOR DEAD LOAD: 4492 lbs (2019 kg)</p> <p>LOWER FLOOR IMPACT LOAD: 250 lbs (113 kg)</p> <p>MID FLOOR MAX. LATERAL LOAD: 250 lbs (113 kg)</p> <p>* SEE ELEVATION VIEW FOR ADDITIONAL, HEADER RING TO SUPPORT EXTRA LONG FLOOR TO FLOOR</p> <p>OPTIONS:</p> <p>BUCK BOOSTER: Required if input power supply is not 240 volt AC</p> <p>BUFFER SPRING: if applicable for habitable space below, Min. pit 4'</p> <p>CAR TOP INSPECTION: Distance between Head Frame and Control Room</p> <p>CONDUCTOR CABLE: Distance between Head Frame and Control Room</p> <p>HEAD RING FINISH: Black Acrylic (Standard)</p> <p>FACTORY CUT GLASS/ACRYLIC: Cut on site or Factory cut</p> <p>FLOOR SWITCH: Manual or Hydraulics Landing Doors</p> <p>LANDING DOOR CLOSER: Stainless Steel (Standard)</p> <p>LANDING DOOR HANDLE: Manual or Hydraulics Landing Doors</p>  |                |                     |                |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| <p><b>FIRST DOOR BY LANDING CHART</b></p> <table border="1"> <thead> <tr> <th>DOOR TYPE</th> <th>LANDING 1</th> <th>LANDING 2</th> <th>LANDING 3</th> </tr> </thead> <tbody> <tr> <td>ENTRANCE SIDE</td> <td>Side C</td> <td>Side C</td> <td>Side C</td> </tr> <tr> <td>LOOK TYPE</td> <td>LH or RH Swing</td> <td>LH or RH Swing</td> <td>LH or RH Swing</td> </tr> <tr> <td>LOOK TYPE</td> <td>A</td> <td>A</td> <td>A</td> </tr> <tr> <td>LOOK TYPE</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td>FLOR MARKING</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>LANDING CONFIGURATION</td> <td>Pit or Ramp</td> <td>Typical Floor Shown</td> <td>Balcony Shown</td> </tr> </tbody> </table>  |                |                     |                | DOOR TYPE     | LANDING 1 | LANDING 2 | LANDING 3 | ENTRANCE SIDE | Side C   | Side C        | Side C  | LOOK TYPE | LH or RH Swing | LH or RH Swing | LH or RH Swing | LOOK TYPE  | A       | A       | A   | LOOK TYPE | NO | NO         | NO      | FLOR MARKING | 1   | 2      | 3 | LANDING CONFIGURATION | Pit or Ramp | Typical Floor Shown | Balcony Shown |
| DOOR TYPE   | LANDING 1      | LANDING 2           | LANDING 3      |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| ENTRANCE SIDE   | Side C         | Side C              | Side C         |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| LOOK TYPE   | LH or RH Swing | LH or RH Swing      | LH or RH Swing |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| LOOK TYPE   | A              | A                   | A              |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| LOOK TYPE   | NO             | NO                  | NO             |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| FLOR MARKING  | 1              | 2                   | 3              |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| LANDING CONFIGURATION   | Pit or Ramp    | Typical Floor Shown | Balcony Shown  |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| <p><b>DATA SHEET</b></p> <p>CUSTOMER: PROJECT: ADDRESS: DATE: 1.5</p> <p>OFFICE USE ONLY: Part No. Octagonal Acrylic</p> <p>COMBINATION REGION SHIP: 1.5</p> <p>MODEL REGION SHIP: VIE 112</p> <p>REGION: 1.5</p> <p>COMBINED: 1.5</p> <p>DOB No. 9 OF 9</p> <p>SAVARIA</p>   |                |                     |                |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |
| <p><b>ENTRANCE SIDE LEGEND</b></p> <p>SIDE D</p> <p>SIDE A</p> <p>PLATFORM</p> <p>SIDE C</p> <p>TOP LEVEL</p> <p>SIDE B</p>   |                |                     |                |               |           |           |           |               |          |               |         |           |                |                |                |            |         |         |     |           |    |            |         |              |     |        |   |                       |             |                     |               |



## Model Specifications – Octagonal

### Octagonal Glass)

- Capacity: 432kg 950 lb)
- Cab Size: 1.2 sqm (12 sq. ft.)
- Clear Cab Size: 1087w x 1073d (42.8 x 42.25 in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
  - Glass: 1244 x 1244mm (49 x 49 in.) 1260 x
  - Pit/Thru Floor Cutout: 1260mm (49.63 x 49.63 in.) 1304 x
  - Balcony/Header Ring: 1304mm (51.38 x 51.38 in.) 1407 x
  - Pit/Thru Floor Ring: 1407mm (55.38 x 55.38 in.)
- Minimum Overhead Clearance: 2743mm (108 in.)  
for 2133 mm (84 in) cab
- Minimum Overhead Clearance: 2641 mm (104 in.)  
for 2032 mm (80 in.) cab

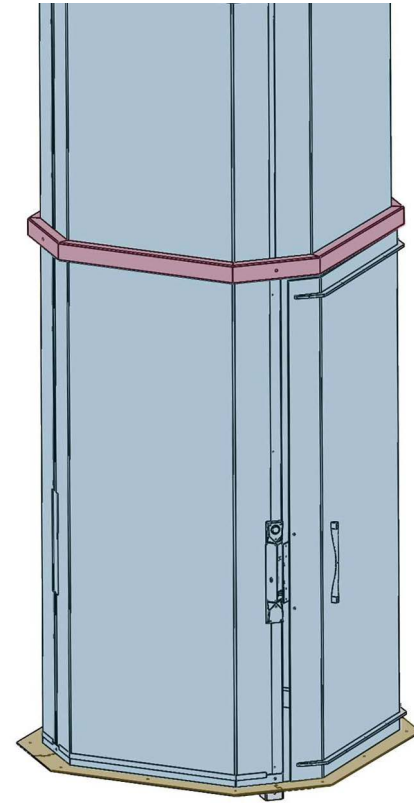


Figure 30: Plan view - octagonal glass (OGM) type 1

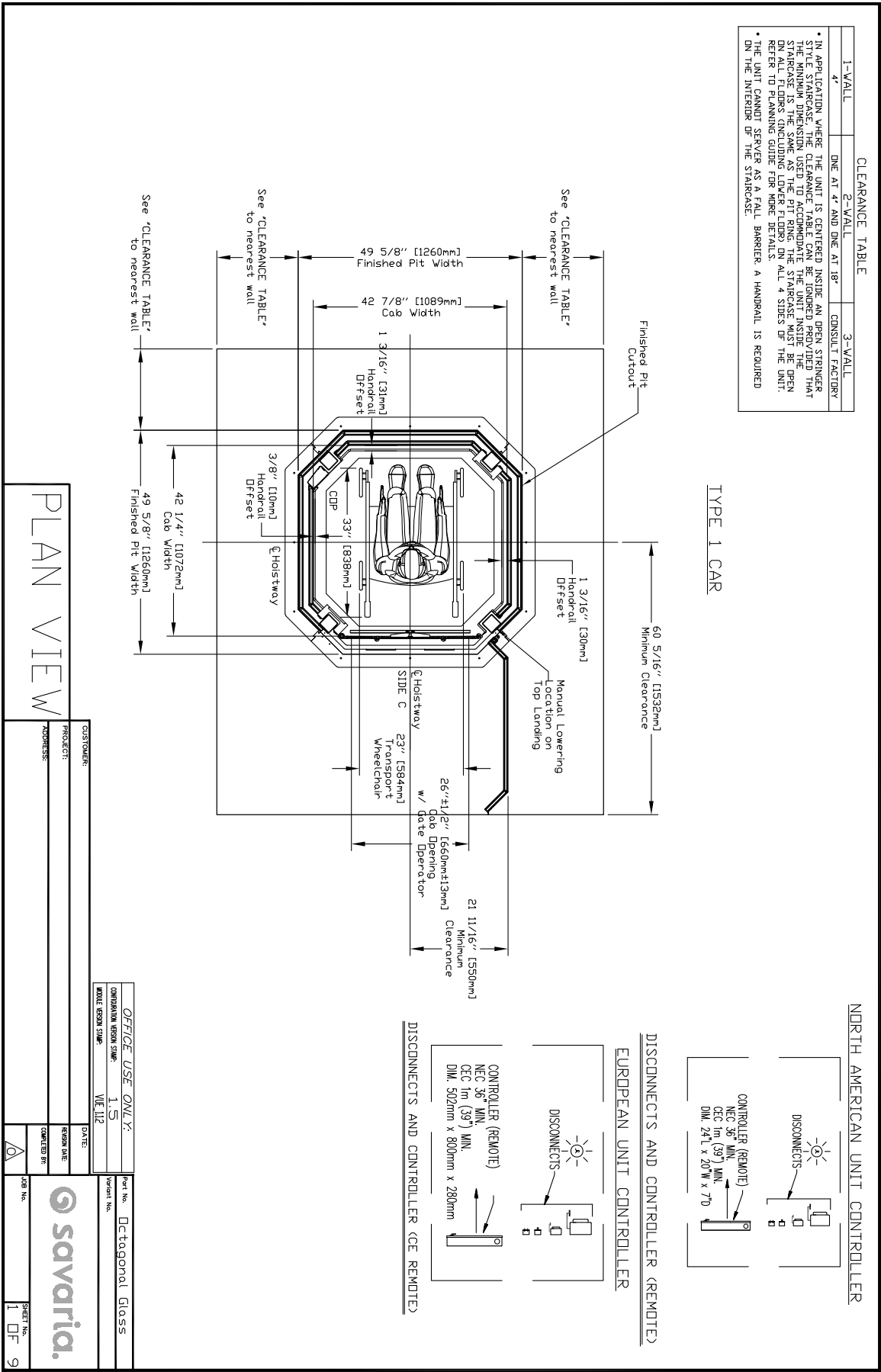
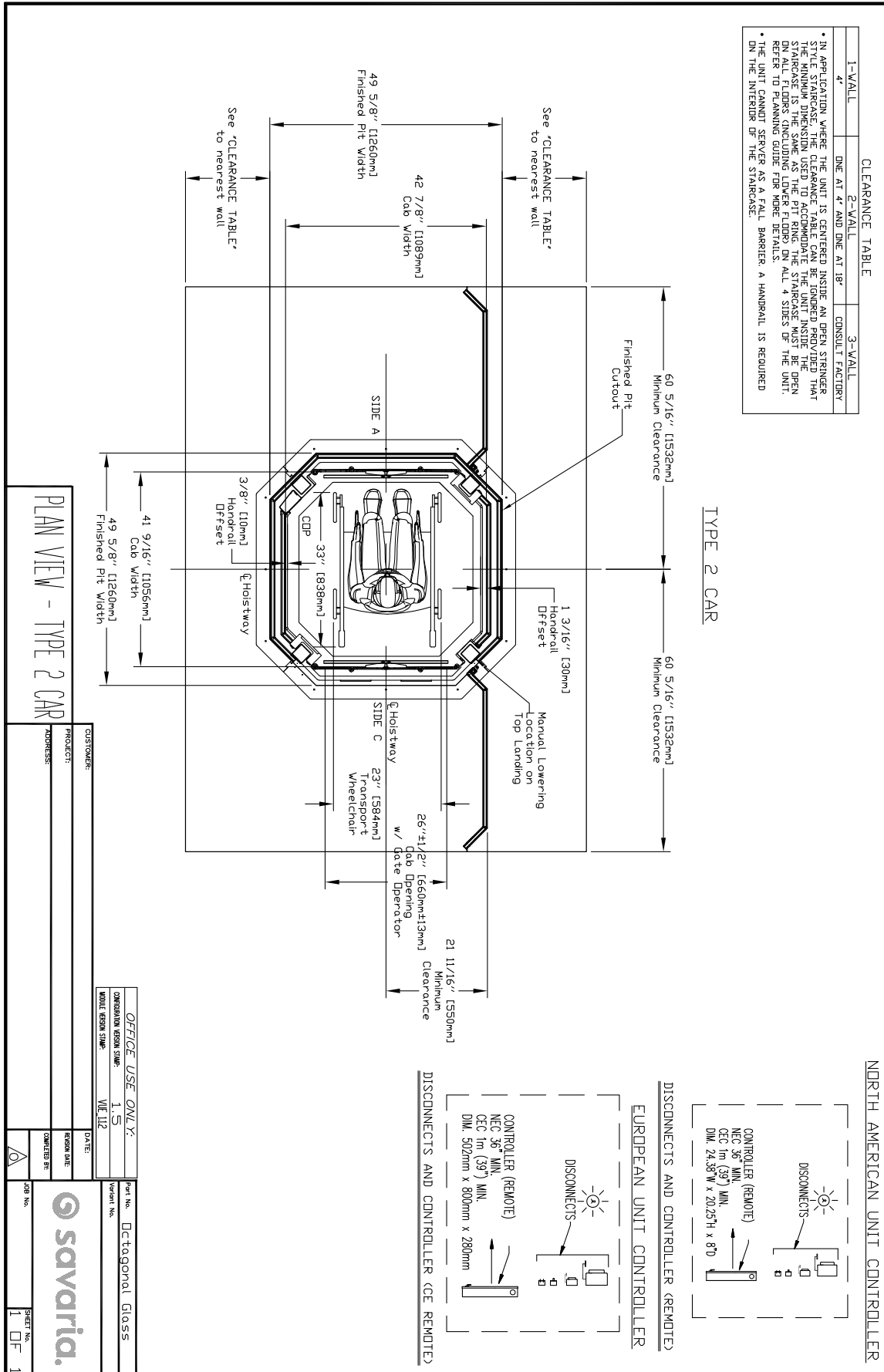


Figure 31: Plan view - octagonal glass (OGM) type 2



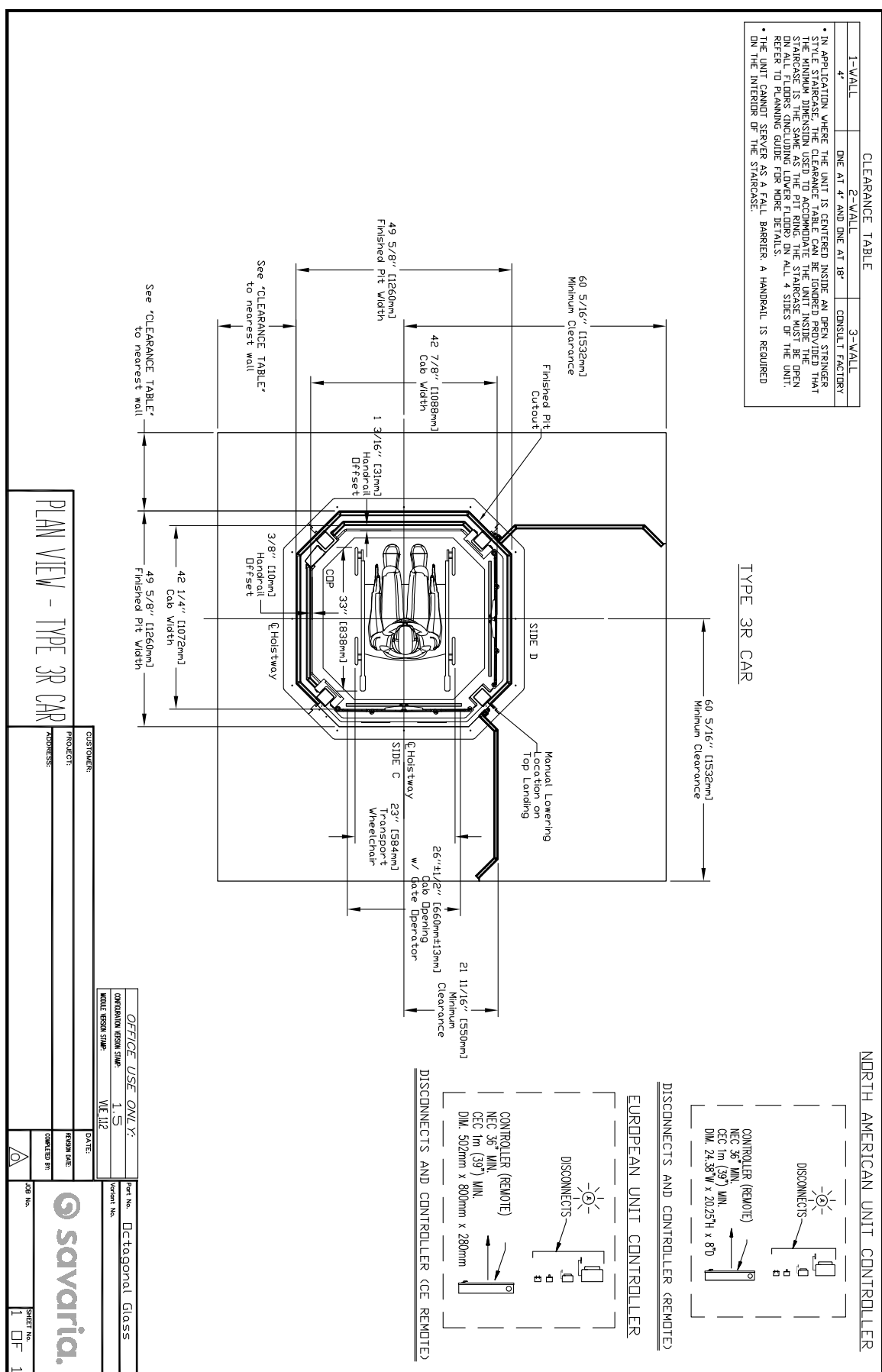


Figure 33: Pit view - octagonal glass (OGM) type 1, 2 or 3

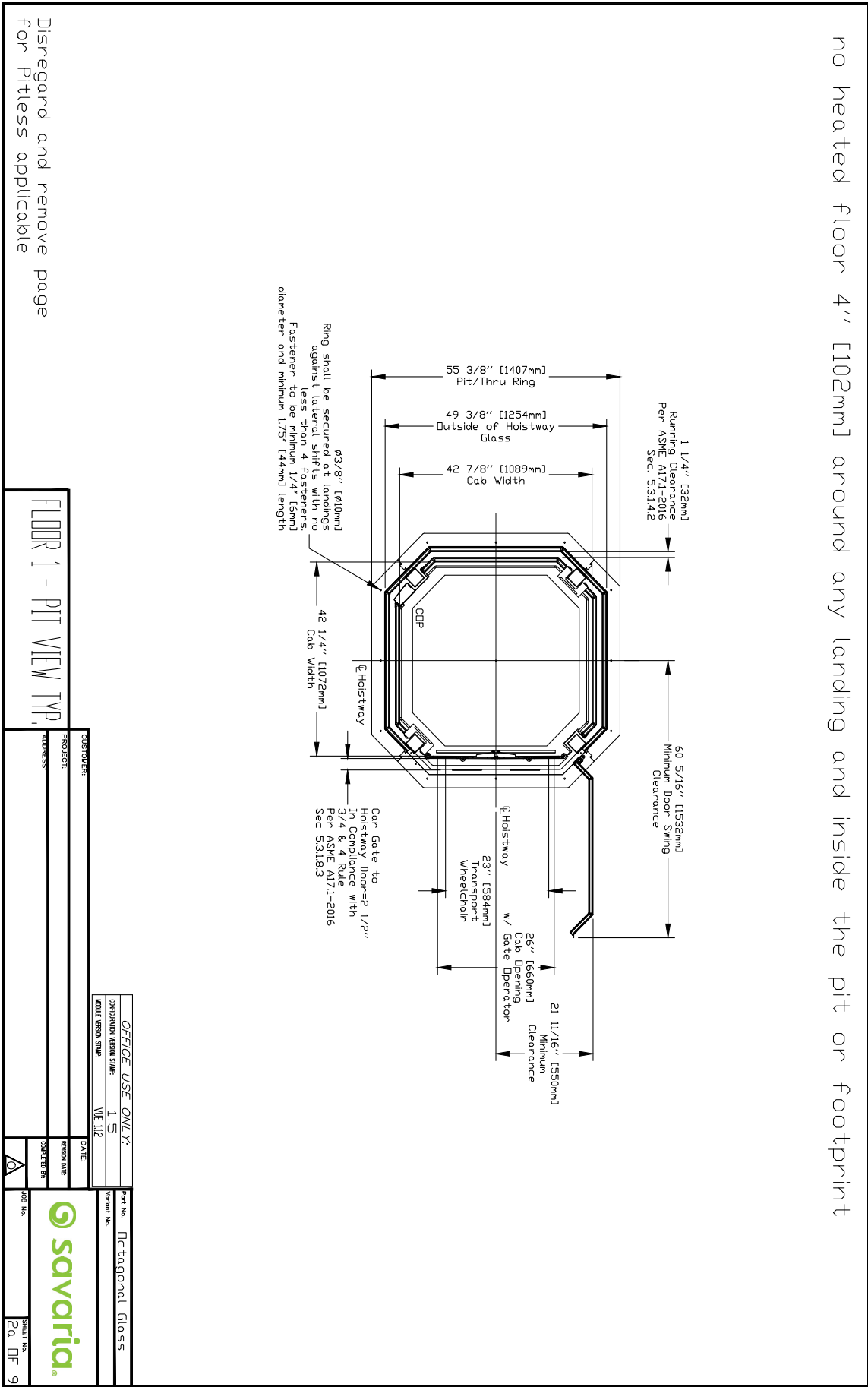
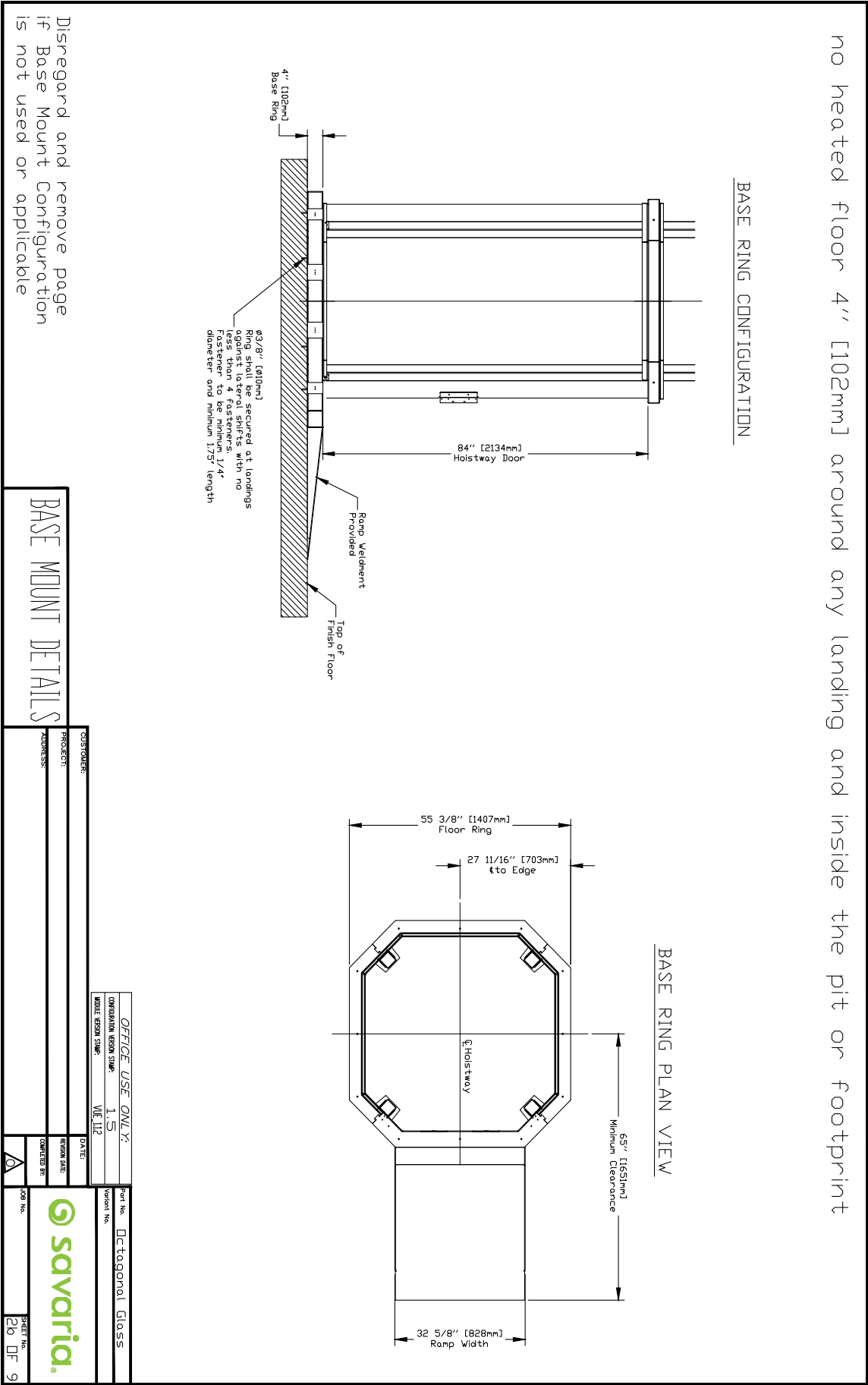




Figure 34: Base mount details- octagonal glass (OGM) type 1, 2 or 3



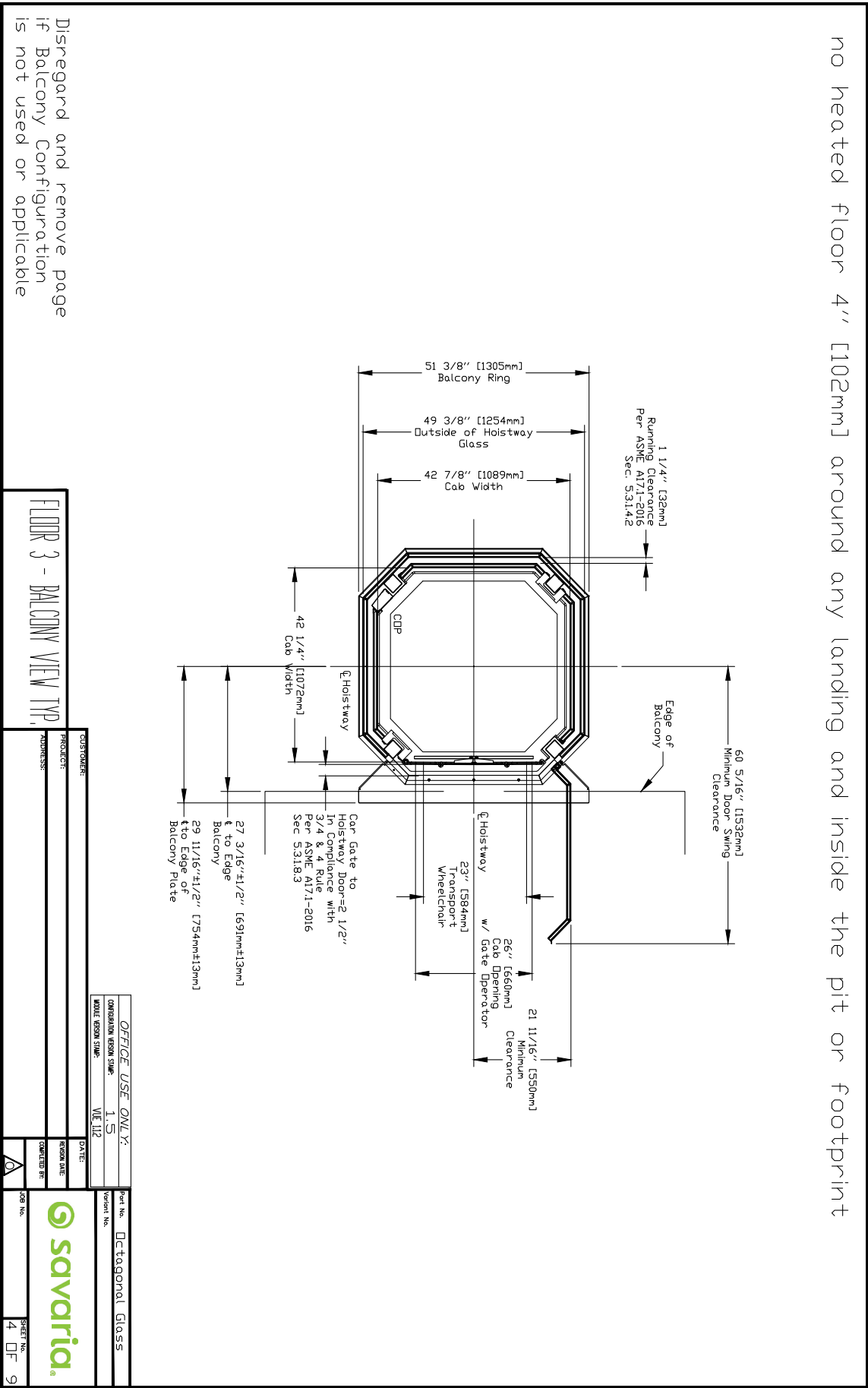
Technical drawing of a hoistway door assembly, showing dimensions and clearances. The drawing includes the following dimensions and labels:

- 55 3/8" [1407mm] Pit/Thru Ring
- 49 3/8" [1254mm] Outside of Hoistway Glass
- 42 7/8" [1089mm] Cab Width
- 60 5/16" [1532mm] Minimum Door Swing Clearance
- 21 11/16" [550mm] Minimum Clearance
- 26" [660mm] Cab Opening w/ Gate Operator
- 23" [584mm] Transport Wheelchair
- 42 1/4" [1072mm] Cab Width
- Ø3/8" [Ø10mm]
- Ring shall be secured at landings against lateral shifts with no less than 4 fasteners. Fastener to be minimum 1/4" (6mm) diameter and minimum 1/75" (44mm) length
- Cor. Gate to Hoistway Door=2 1/2" In Compliance with 3/4 & 4 Rule Per ASME A17.1-2016 Sec 5.3.18.3
- Running Clearance Per ASME A17.1-2016 Sec. 5.3.14.2
- 1 1/4" [32mm]
- 60 5/16" [1532mm]
- 21 11/16" [550mm]
- 26" [660mm]
- 23" [584mm]
- 42 1/4" [1072mm]
- 42 7/8" [1089mm]
- 49 3/8" [1254mm]
- 55 3/8" [1407mm]

FLOOR 2 - THRU FLOOR VIEW TP.

[illegible]

Figure 36: Balcony view - octagonal glass (OGM) type 1, 2 or 3



**Figure 37: Balcony plate and handrail information - octagonal glass (OGM) type 1 shown**



The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft is 1" (25.4 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

**NOTE:** Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

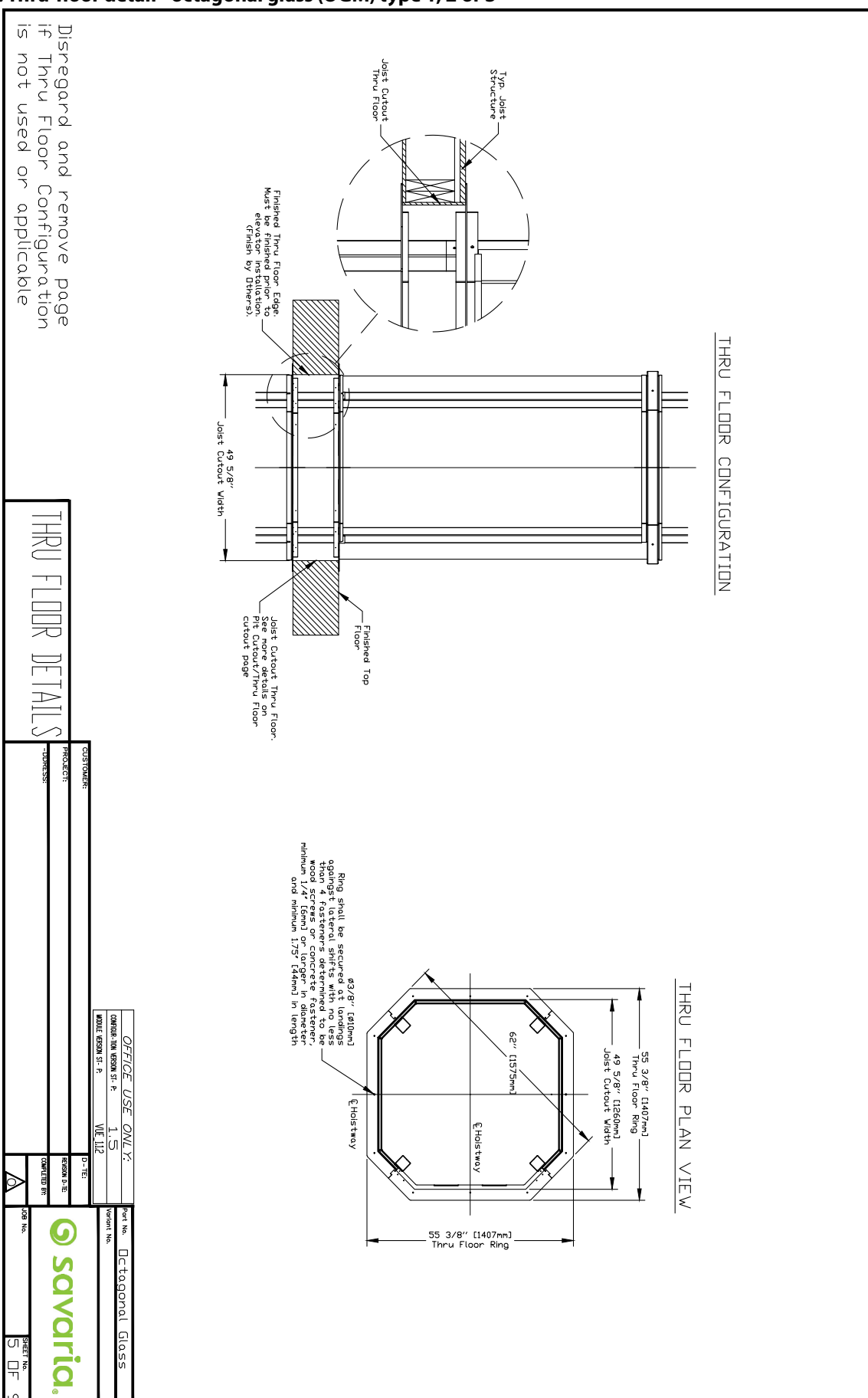
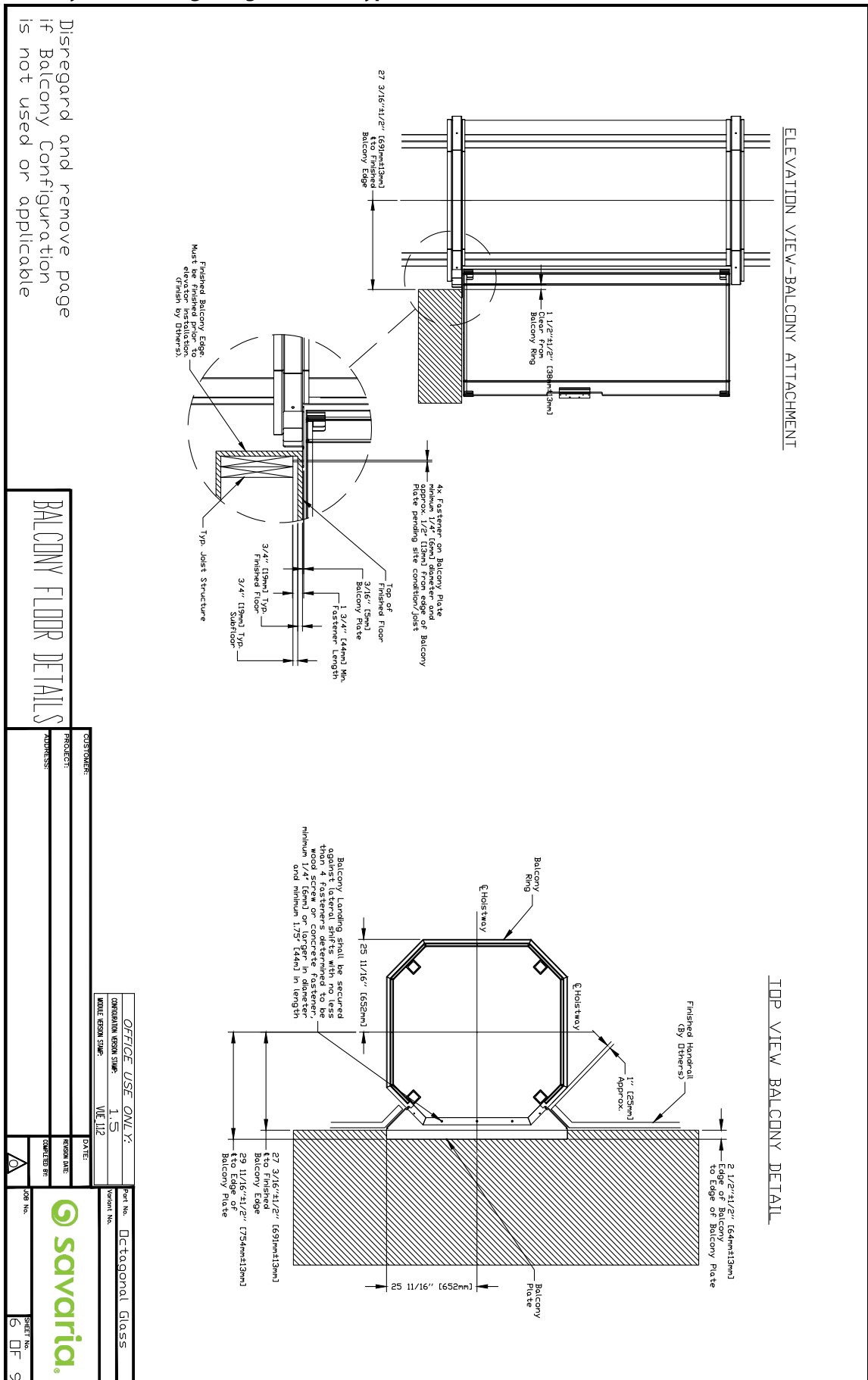
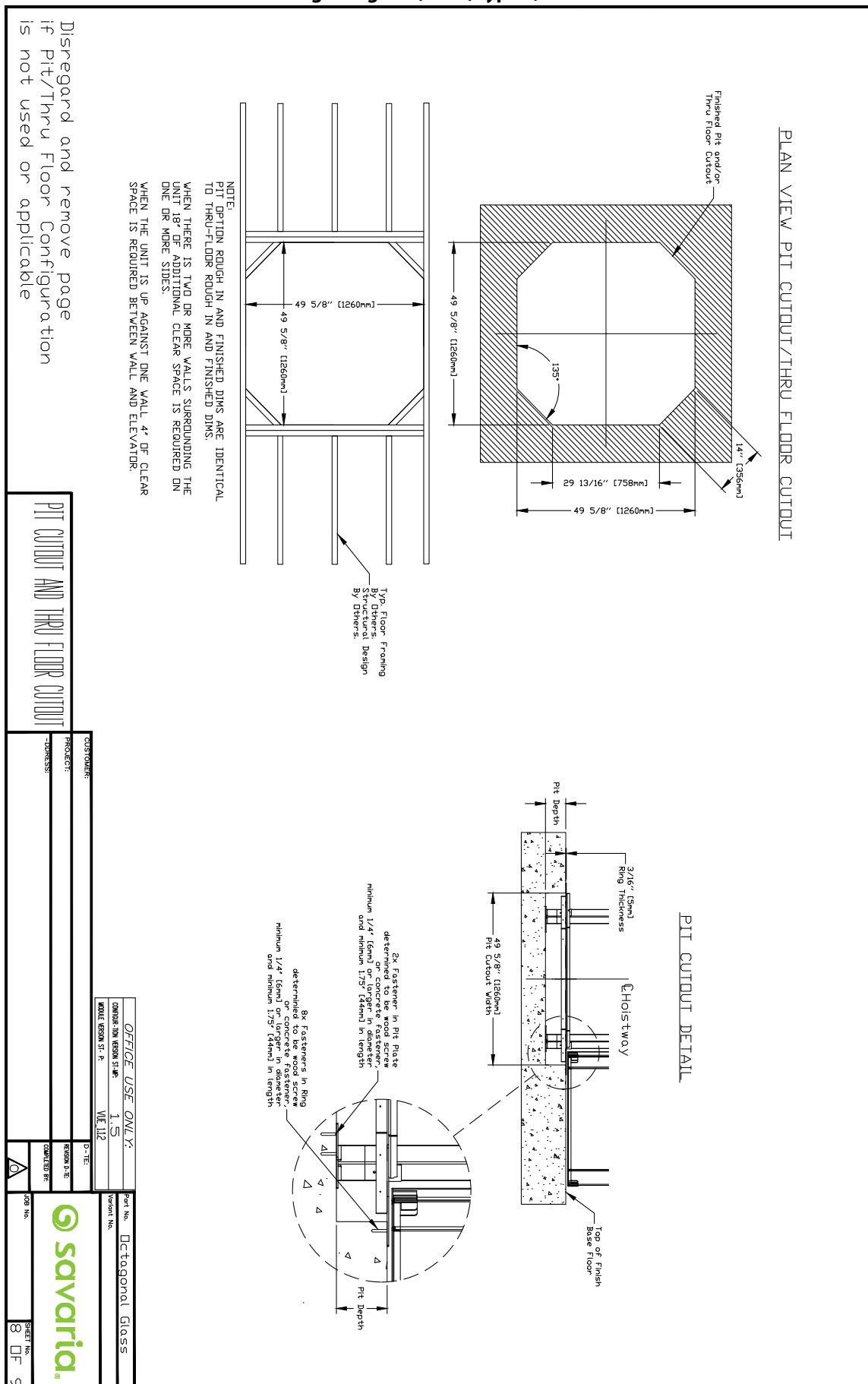


Figure 39: Balcony detail - octagonal glass (OGM) type 1, 2 or 3





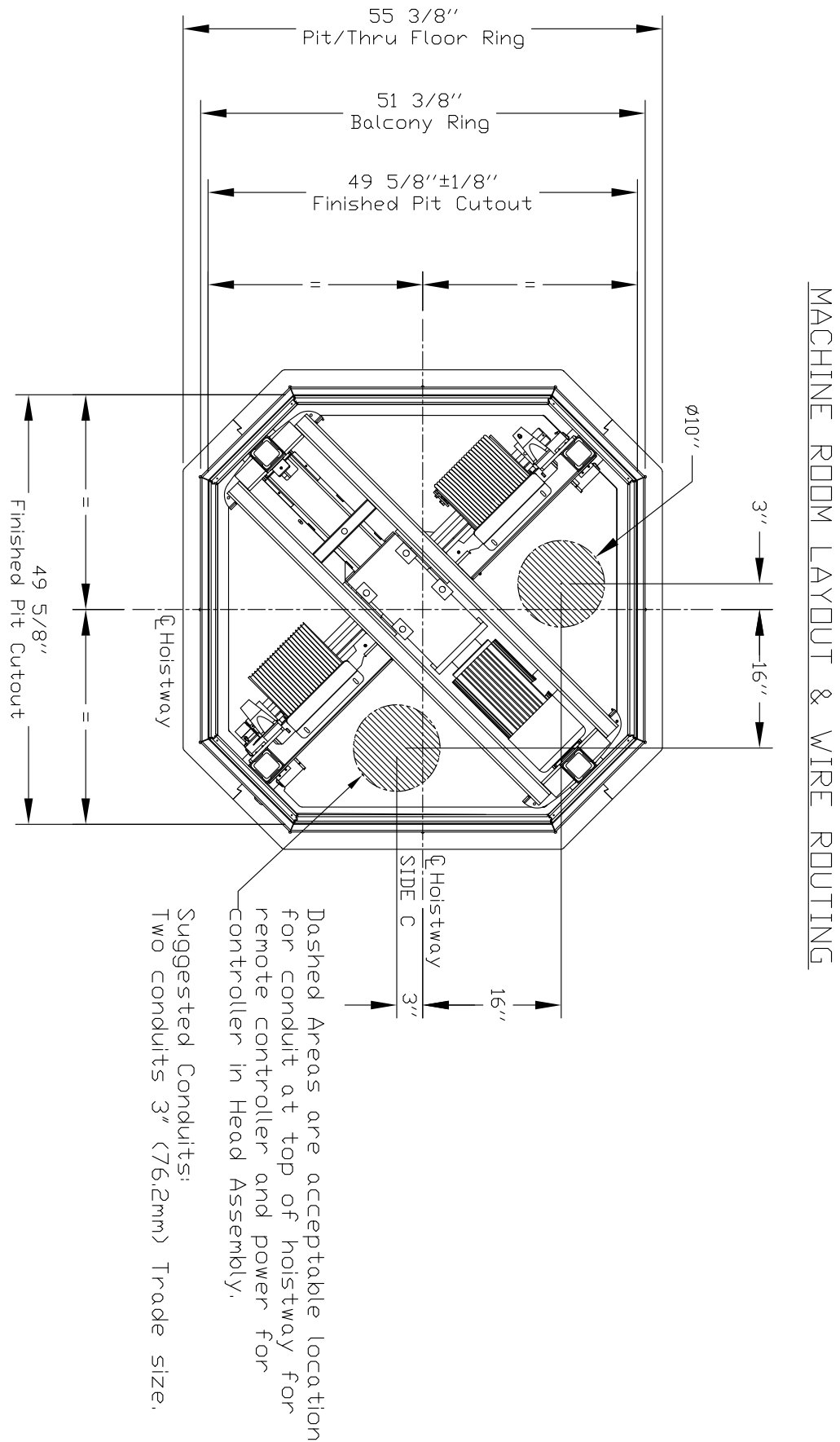
**Figure 41: Pit cutout/thru-floor cutout - octagonal glass (OGM) type 1, 2 or 3**

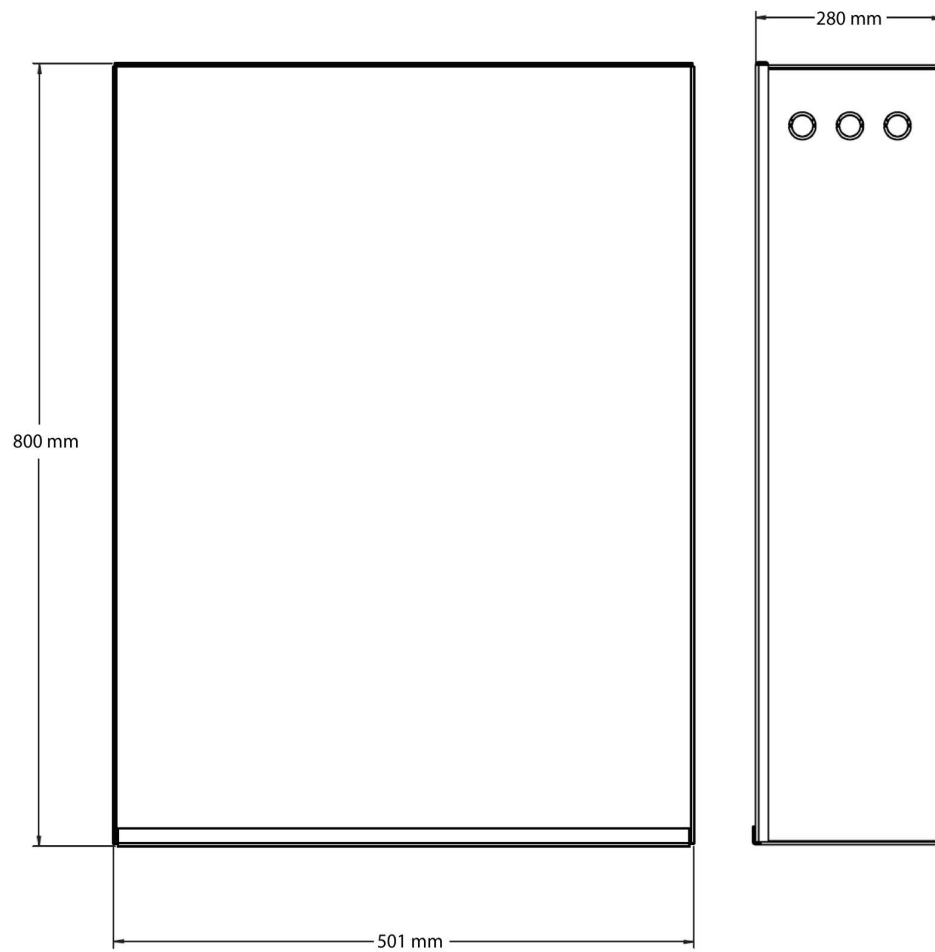




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**Figure 43: Machine room layout and wire routing - octagonal glass (OGM) type 1, 2 or 3**



**Figure 44: Controller box dimensions - octagonal acrylic & octagonal glass (OAM & OGM), type 1, 2 or 3**

# Chapter 3:

## Round+ Glass (RGL)



## Specifications - Round+ Glass (RGL)

| Specification                             | Specification Data  |
|---|---|
| Load capacity                             | 950 lb (432 kg)   |
| Maximum travel                            | 50 ft (15.24 m); 55 ft (16.76 m) where a variance is possible   |
| Travel speed                              | 40 ft/min (0.20 m/s)  |
| Noise level (for typical installation)    | 65 dB   |
| Daily cycle                               | Normal: 40<br>Heavy: 80<br>Excessive: 150<br>Maximum starts in 1 hour on standard installation: 20<br>NOTE: Please consult your Sales Representative if there a chance you may exceed these amounts.                          |
| Maximum levels serviced                   | 6   |
| Minimum overhead                          | 108" (2743mm) for 84" (2133mm) cab<br>104" (2641mm) for 80" (2032mm) cab  |
| Cab                                       | Cab interior height RGL: 84 in (2.13 m)<br>Cab interior height RGL: 80 in (2.03 m)<br>Cab floor area RGL: 15.00 sq ft (1.4 sq m)<br>Cab weight RGL: 1200 lb (545 kg)  |
| Floor by others (in cab)                  | 3/4" (19 mm) maximum  |
| Footprint                                 | Round+ glass: 58.4" (1.48 m) diameter   |
| Power supply                              | 30A, 230V, single-phase, 50/60 Hz   |
| Cab lighting                              | 15A, 115V, single-phase, 50/60 Hz   |
| Suspension                                | Type: Galvanized aircraft cable (2 x 3/8" diameter)<br>Construction: IWRC 7 x 19 RHRL<br>Nominal strength: 14,400 lb (6,545 kg)<br>Weight of ropes: 0.243 lb/ft (3.616 g/cm)<br>Travel cable weight: 0.228 lb/ft (3.393 g/cm) |
| Drive train                               | Type: Winding drum<br>Motor: 5.0HP (3.5 KW) with integrated brake<br>Transmission: Low vibration, worm gear drive<br>Motor control: Preprogrammed variable frequency drive<br>Door interlocks: Xtronics                       |
| Pit/floor load                            | Refer to the section "Load Calculations"  |
| Distance between 2 landings               | 93.5" (2375 mm) minimum   |
| Pit depth                                 | 4" - 12" (102 mm - 305 mm)  |
| Temperature operating range (environment) | - 10°C to + 40°C / 14°F to 104°F<br><b>NOTE:</b> For optimal running conditions, each landing of the unit should be in a climate-controlled environment.  |

| Specification   | Specification Data   |
|-----------------|--|
| Safety features | Pit run/stop switch and car top run/stop switch<br>Emergency stop switch<br>Safety brakes<br>Electrical circuit overspeed<br>Manual lowering<br>Emergency battery back-up for cab lighting and lowering  |
| Options         | Optional configurations: Type 2, 3R, 6<br>Optional colors:<br><ul style="list-style-type: none"> <li>• White (Texture White PX521W859)</li> <li>• Silver (Texture Silver PX521S343)</li> <li>• Custom powder-coat frame</li> </ul> Note that Black is the standard color (Texture Black PX622N365)<br>Other options: Up to 6 stops, balcony attachment<br>Savaria Link remote monitoring (Vuelift Micro-6 only)<br>Landing door handle painted to match unit<br>Top header ring in sheet metal painted to match unit |

---

## Safety First - Round+ Glass (RGL)

### 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 door and the hoistway edge of the landing sill shall not exceed 0.75" (19 mm).
- Distance between the hoistway face of the landing door and the car door shall not exceed 4" (102 mm).
- Vuelift Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.

## Electrical Requirements - Round+ Glass (RGL)

Your electrician and phone installer must supply the following connections:

- Main Disconnect - One 230V single-phase, 30 Amp fused disconnect box with 30 Amp fuse/breaker. If voltage is not 230V minimum, a buck-boost transformer is required.
- Lighting Disconnect - One 120V, 15 Amp fused disconnect or circuit breaker for cab lighting.
- Telephone Line - One telephone line jack in close proximity to the controller.
- Electrical Outlet - One 15A GFCI outlet shall be installed near the pit or base ring.

**NOTE:** Savaria does not provide power cable to main disconnect.

### Recommended Manufacturers for Fused Disconnect

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### G.E.

- 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, 30 Amp, RK5 fuses.
- Lighting disconnect - 120V, 15 Amp fused disconnect or circuit breaker.

#### Cutler Hammer

- Main disconnect: 230V single-phase disconnect model # DH221NGK.  
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).  
In addition, two each - 250V, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

**Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel itself): Square D or Siemens only.**



## Provisions By Others - Round+ Glass (RGL)

### General

#### Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

### Dimensions

The contractor/customer must verify all clearance dimensions prior to delivery of the unit.

### Structural Floor Loads

A structural engineer is required to ensure that the building will safely support all loads imposed by the lift equipment. Refer to the tables on the installation drawings (shop drawings) for pit/floor loads imposed by the equipment. Refer to the section, Load Calculations.

### Electrical Power Supply

See the following table. Lockable fused disconnects must be installed in compliance with electrical code and are to be provided prior to installation of the unit. Roughed in power to the lift must be provided to the head assembly location prior to installation of the unit.

| Power Supply Specifications | Disconnect Size | Time Delay Fuse Size | Volts     | Phase  |
|-----------------------------|-----------------|----------------------|-----------|--------|
| Motor and equipment         | 30 Amps         | 30 Amps              | 230 Volts | Single |
| Cab lights                  | 15 Amps         | 15 Amps              | 115 Volts | Single |
| Pit light                   | 15 Amps         | 15 Amps              | 115 Volts | Single |

### Telephone

If a telephone circuit is required, the jack is to be provided and installed by others. This circuit shall be brought to a location next to the controller and be available to connect and test upon elevator installation.

### Electrical Outlet

One 15-Amp GFCI outlet shall be installed near the pit or base ring.

### Permanent Power

Before installation can begin, permanent power must be supplied.

### Entrances Handrails

All balcony levels require handrails to be installed per local codes after installation is completed. The handrail and installation is to be provided by the contractor/customer. Savaria Concord Lifts Inc. and/or local installer are not responsible for handrail installation or materials.

### Savaria Link Option (Vuelift Micro-6 Only)

If you have the Savaria Link Ethernet remote monitoring option, ensure that you have an Ethernet connection with Internet capability in the vicinity of the unit's controller.

If you have the Savaria Link Wireless remote monitoring option, ensure that you have a wireless signal with Internet capability in the vicinity of the unit's controller.

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## Site Preparation - Round+ Glass (RGL)

The following items **MUST** be completed prior to installation of the elevator.

### Finished Floors

- Finished floors be installed at all landing levels.

### 230V Power (with Switched Disconnect)

- Permanent 230V, single-phase, 30-Ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted in a location within line of sight of the elevator or controller.
- 230V source must be run from the disconnect switch to a junction box in a discrete location at the top of the elevator hoistway location.
- Disconnect must be installed according to all applicable local codes.

### 110V Power (with Switched Disconnect) - 2 are required

- Permanent 110V, single-phase, 15-Ampere dedicated power to a lockable, fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted near the 230V disconnect switch.

### Telephone Works

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your local installer or building contractor for code requirements.

### Electrical Outlet

- One 15-Amp GFCI outlet shall be installed near the pit or base ring.

### Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting Savaria.

### Floor and Pit Cutouts Complete

- If a pit is to be used, a smooth, level surface of at least 4" must be provided. For pit depths greater than 12", contact Savaria to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed.
- Hole in floor, or modified balcony rail as directed by drawings.

### Check Floor to Floor Maximum and Minimum Distances

- 108" (2743mm) for 84" (2133mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration. (standard)
- 104" (2641 mm) for 80" (2032 mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for modified short cab configuration. (optional)

### Drywall and Painting

- All drywall and painting must be complete.

## Load Calculations - Round+ Glass (RGL)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Each middle floor carries a separate Mid Floor Load supporting only that floor's metal floor rings, while the main cab/hoistway load (Lower Floor Total Load) is transferred fully to the bottom floor.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- All mid floors including the bottom floor may be subjected to a maximum lateral load of 250 lb.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, the figures below DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

Lower Floor Dead Load (lbs) = (114 x feet of hoistway) + (370 x number of floors) + 3041 lbs

Lower Floor Dead Load (Kg) = (170 x meter of hoistway) + (168 x number of floors) + 1379 Kg

Lower Floor Impact Load (lbs) = 9542 lbs (4328 Kg)

Lower Floor Total Load (lbf) = Dead Load + Impact Load

Mid Floor Load (lbf) = 250 lbs (113kg)

Shipping Weight (lb) = (1226 x number of floors) + 3041

**Note:** Shipping weight includes all actual part weights for lower and mid floor loads using 12' per floor, plus shipping packaging weight.

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## Drawings - Round+ Glass (RGL)

### Round+ Glass (RGL)

- Plan view
- Pit view
- Base mount details
- Thru-floor view
- Balcony view
- Balcony plate and handrail information
- Thru-floor details
- Balcony details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Pit cutout/thru-floor cutout
- Datasheet
- Machine room layout and wire routing

## Model Specifications – Round+

### Round+ Glass)

- Capacity: 432kg (950 lb) 1.4
- Cab Size: sqm (15 sq. ft.)
- Clear Cab Size: 1349mm (53.13 in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
  - Glass: 1483mm (58.4 in.)
  - Pit/Thru Floor Cutout: 1502mm (59.13 in.)
  - Balcony/Header Ring: 1543mm (60.75 in.)
  - Pit/Thru Floor Ring: 1654mm 65.13 in.)
- Minimum Overhead Clearance: 2743mm (108 in.)  
for 2133 mm (84 in.) cab
- Minimum Overhead Clearance: 2641mm (104 in.)  
for 2032 mm (80 in.) cab

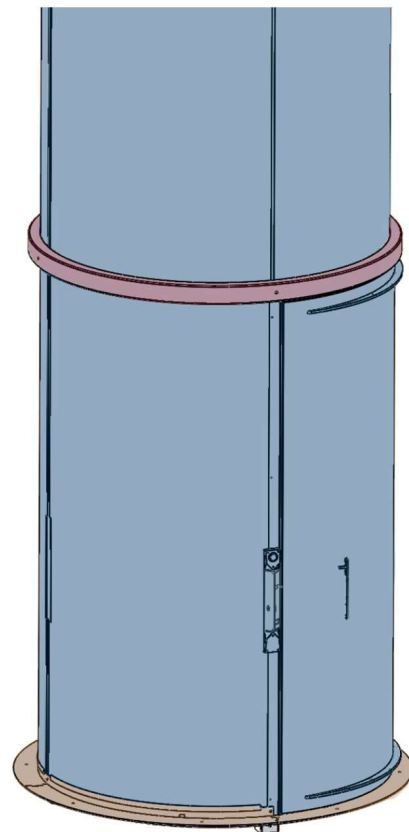


Figure 45: Plan view - round+ glass (RGL), type 1

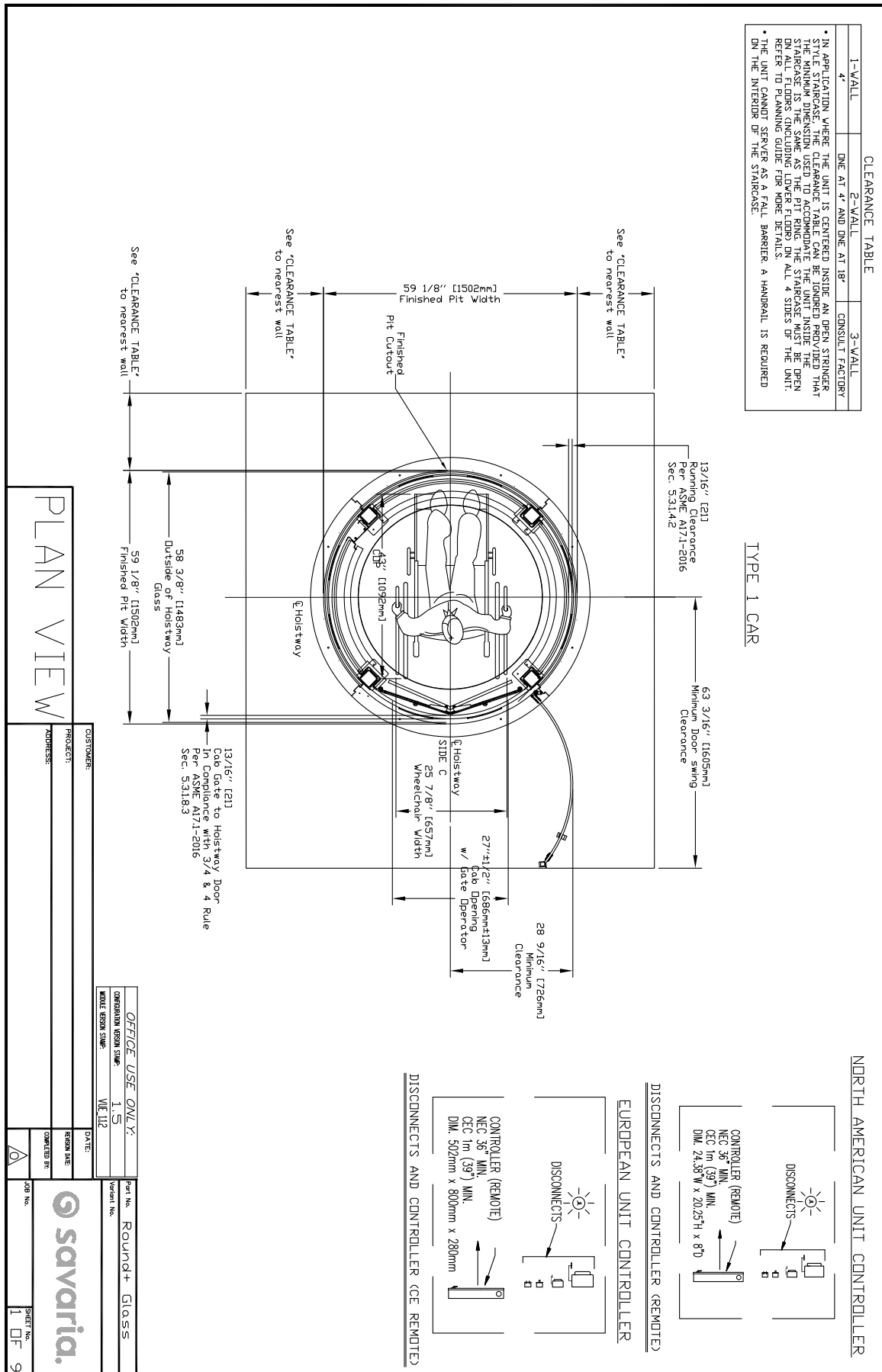
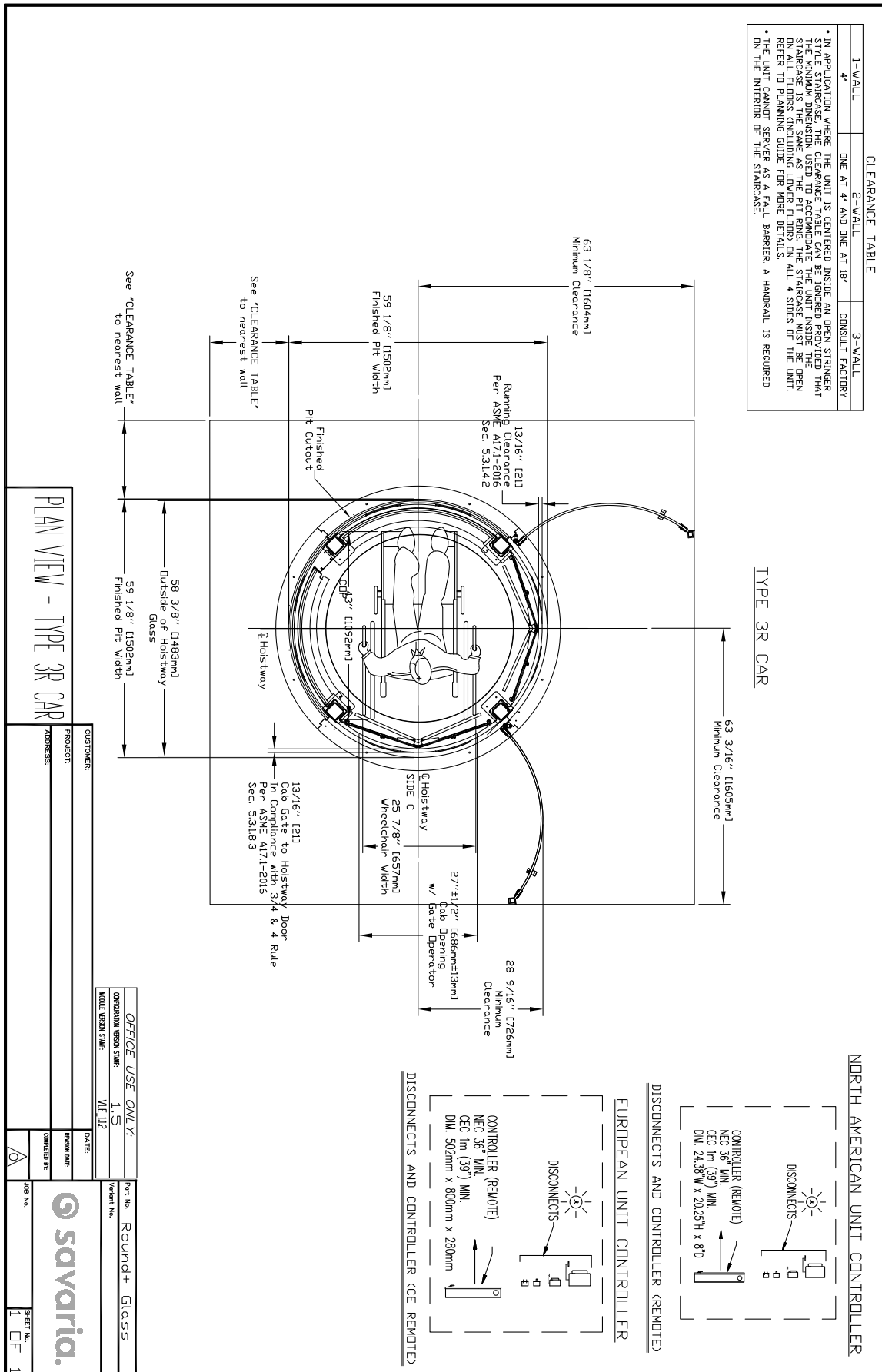


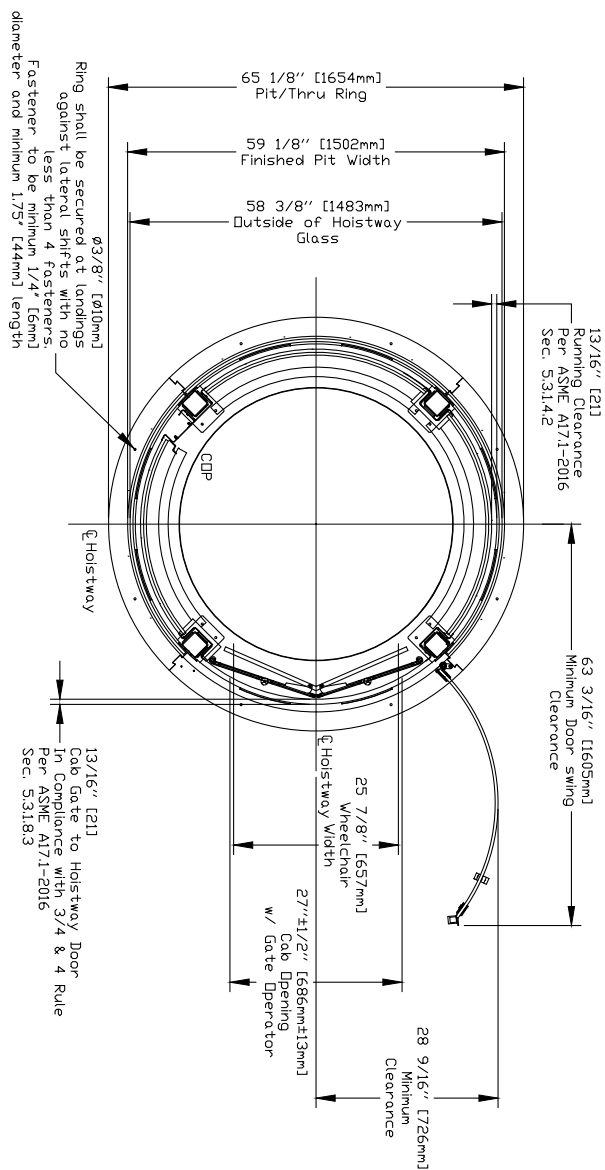


Figure 47: Plan view - round+ glass (RGL), type 3





no heated floor 4" [102mm] around any landing and inside the pit or footprint



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Figure 49: Base mount details- round+ glass (RGL) type 1, 2 or 3

no heated floor 4" [102mm] around any landing and inside the pit or footprint

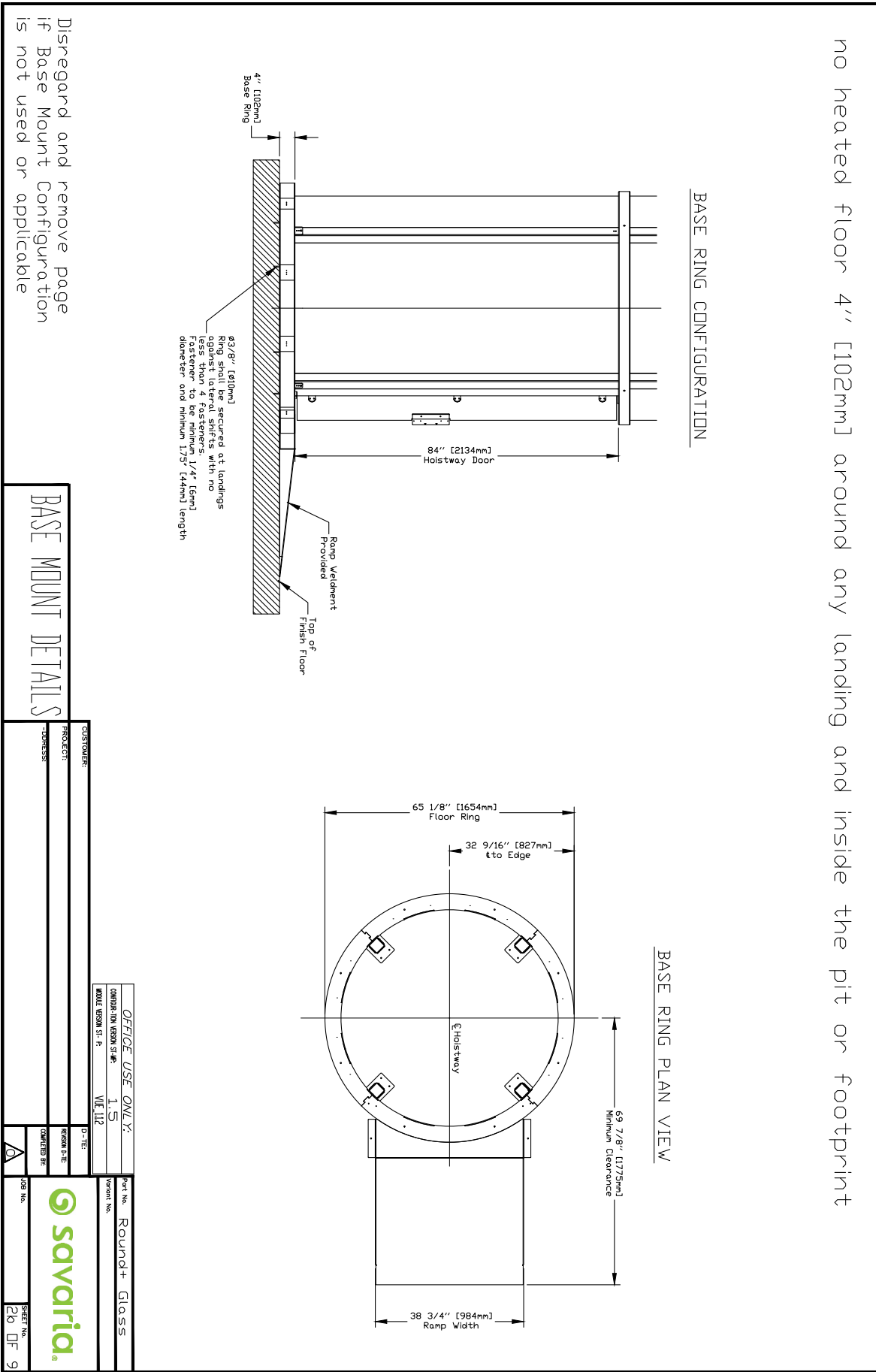
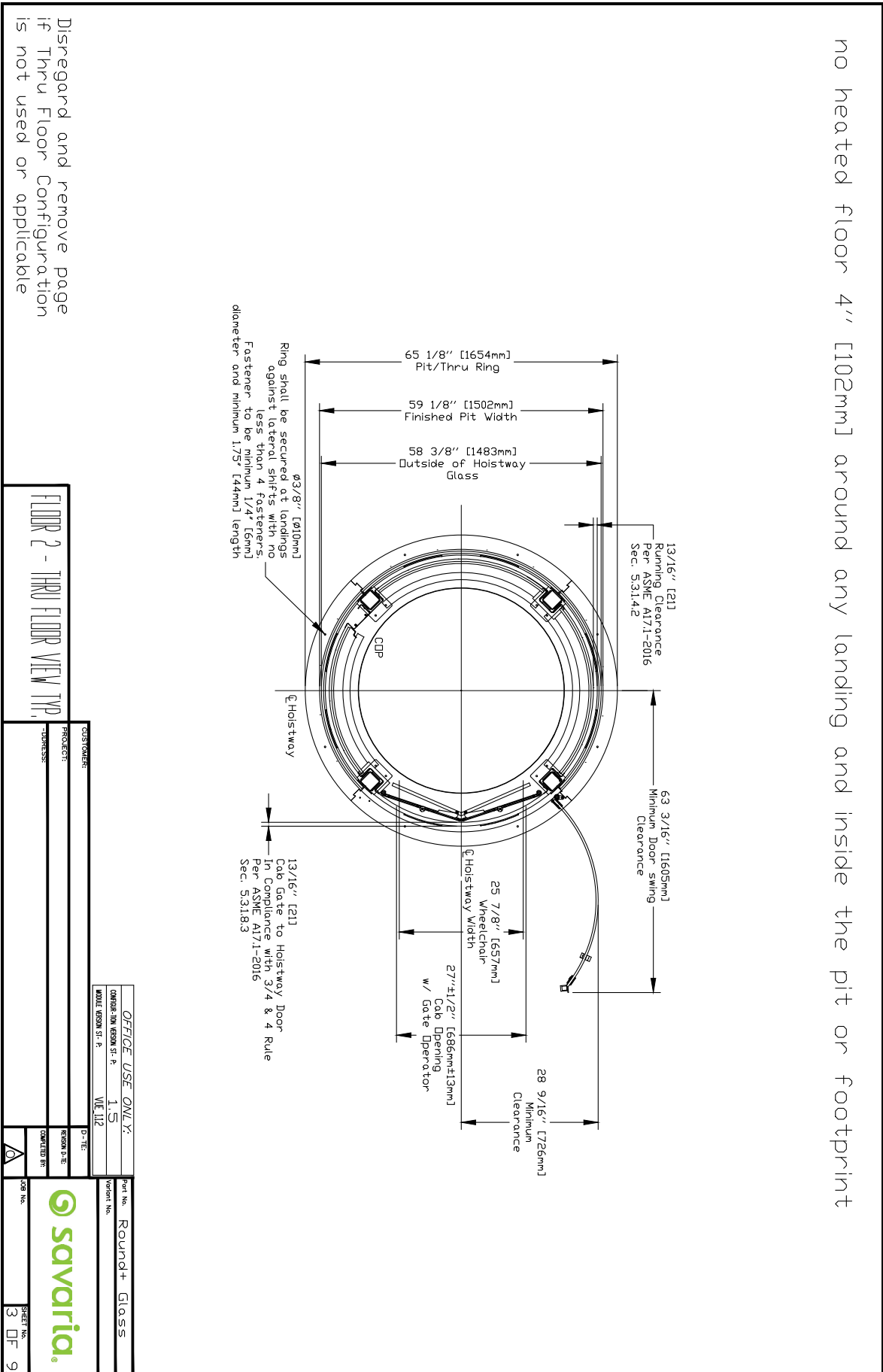


Figure 50: Thru-floor view - round+ glass (RGL) type 1, 2 or 3



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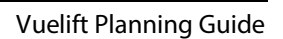


Figure 52: Balcony plate and handrail information - round+ glass (RGL) type 1 shown



The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft is 1" (25.4 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

**NOTE:** Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

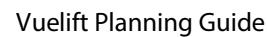


Figure 54: Balcony details - round+ glass (RGL) type 1, 2 or 3

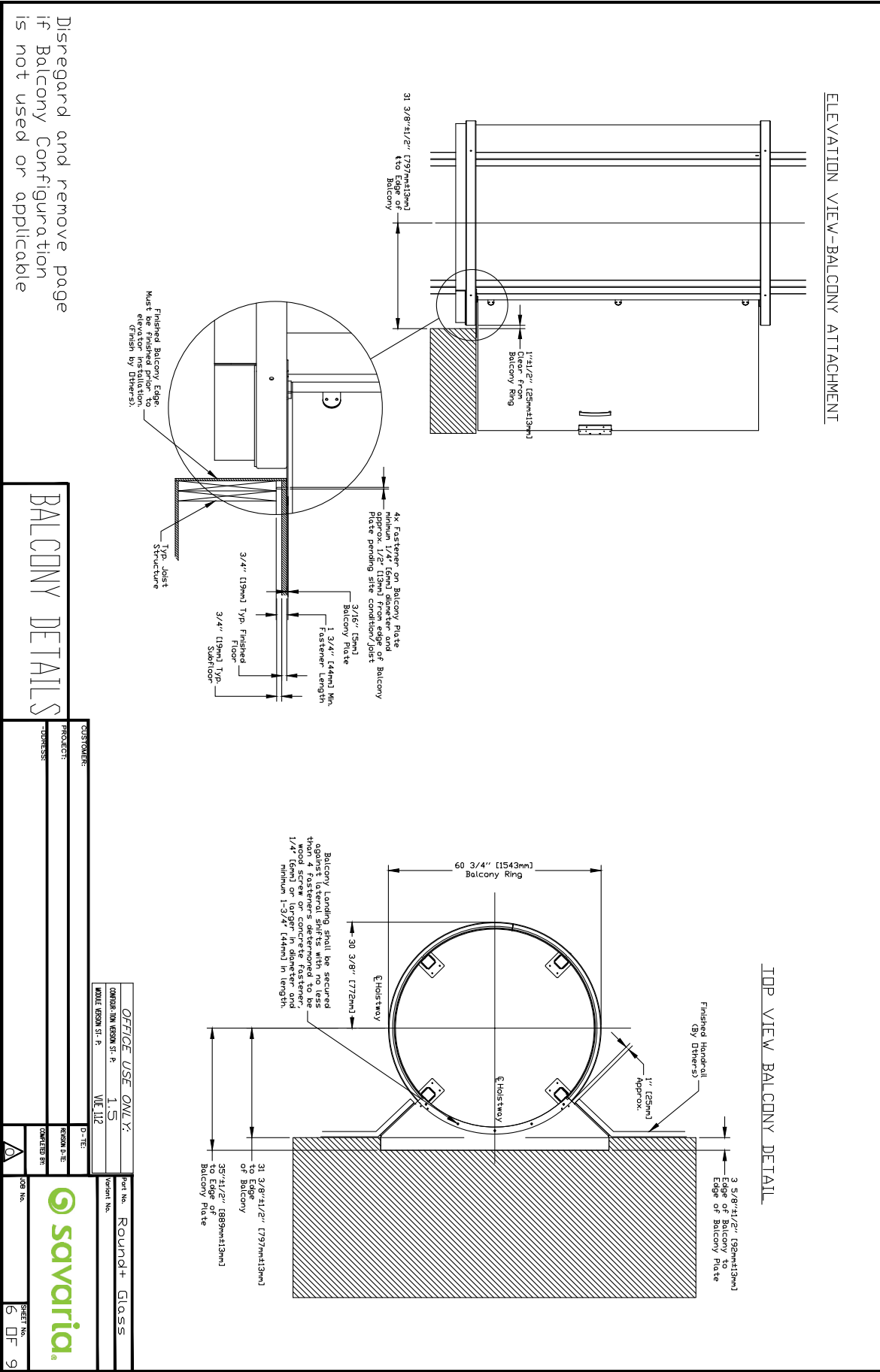
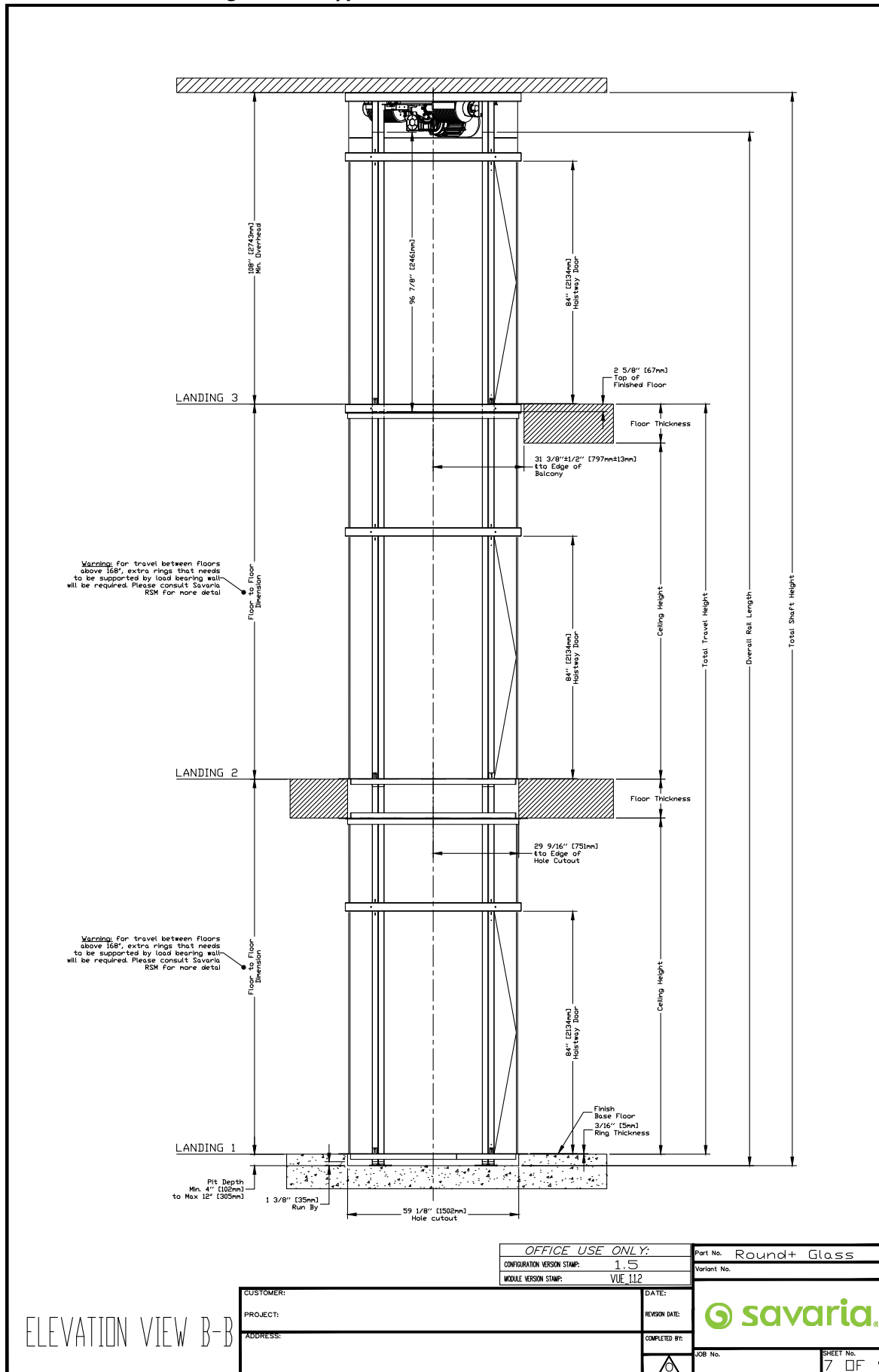


Figure 55: Elevation view - round+ glass (RGL) type 1, 2 or 3

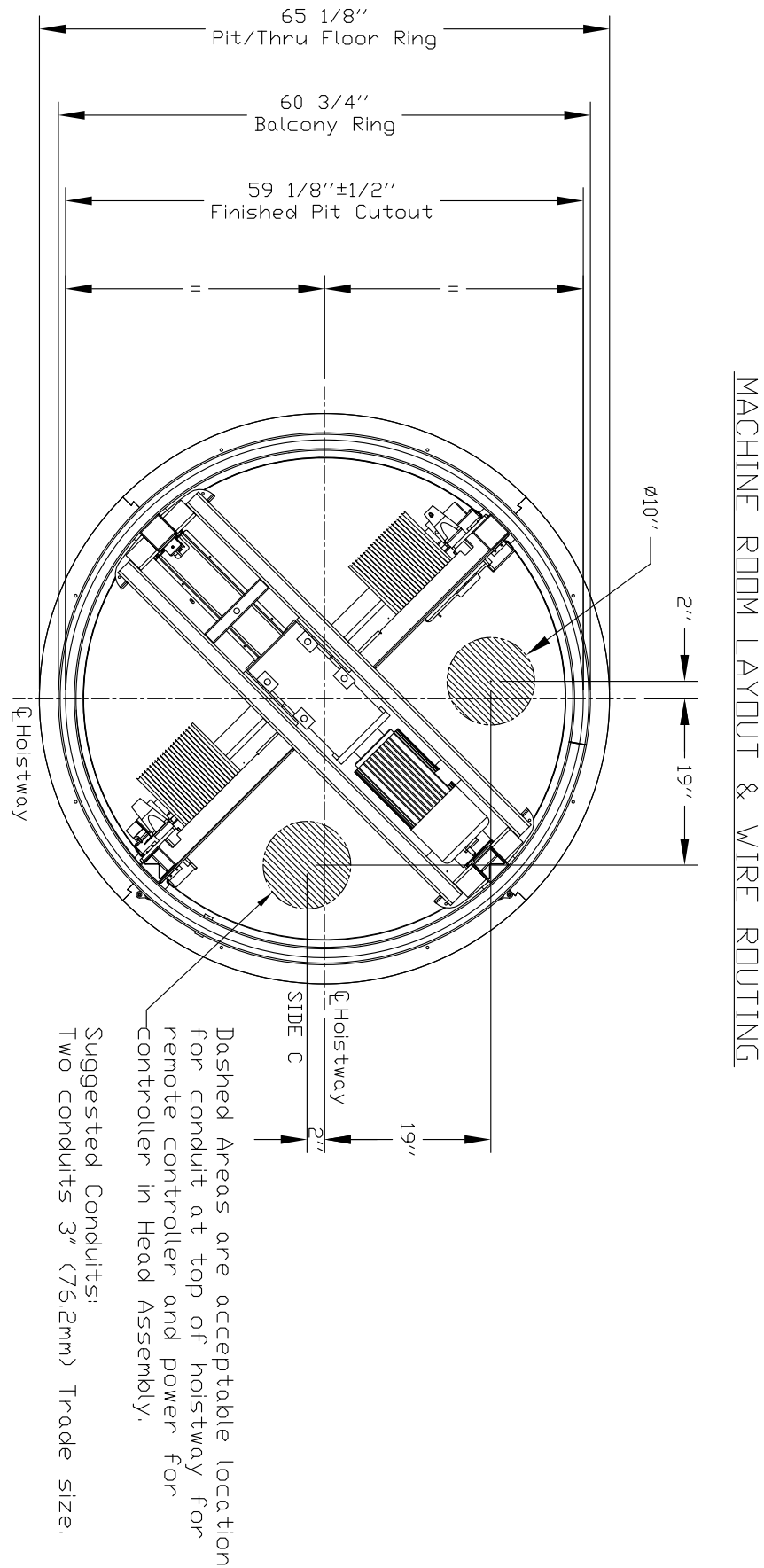


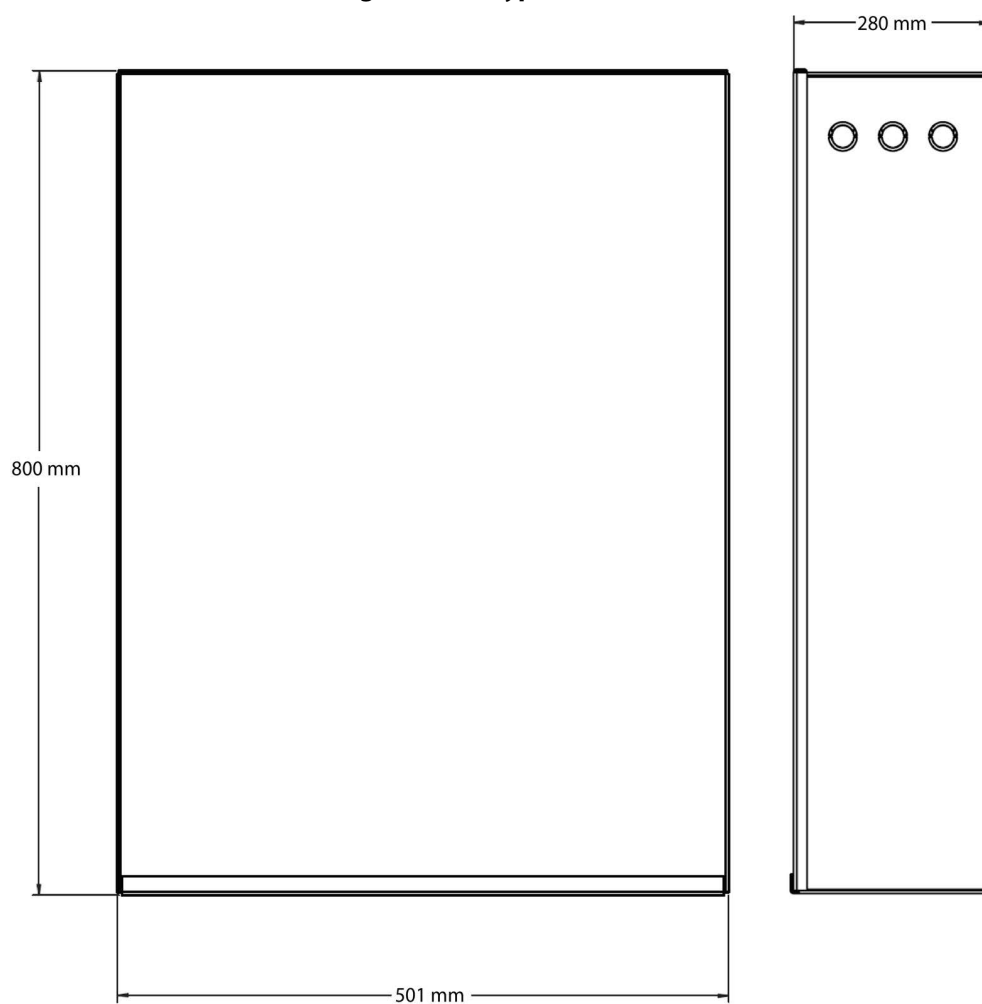






**Figure 58: Machine room layout and wire routing - round+ glass (RGL) type 1, 2 or 3**



**Figure 59: Controller box dimensions - round+ glass (RGL) type 1, 2 or 3**

# Chapter 4: Octagonal+ Glass (OGL)



## Specifications - Octagonal+ Glass (OGL)

| Specification                             | Specification Data  |
|---|---|
| Load capacity                             | 950 lb (432 kg)   |
| Maximum travel                            | 50 ft (15.24 m); 55 ft (16.76 m) where a variance is possible   |
| Travel speed                              | 40 ft/min (0.20 m/s)  |
| Noise level (for typical installation)    | 65 dB   |
| Daily cycle                               | Normal: 40<br>Heavy: 80<br>Excessive: 150<br>Maximum starts in 1 hour on standard installation: 20<br>NOTE: Please consult your Sales Representative if there a chance you may exceed these amounts.                          |
| Maximum levels serviced                   | 6   |
| Minimum overhead                          | 108" (2743mm) for 84" (2133mm) cab<br>104" (2641mm) for 80" (2032mm) cab<br>96" (2438mm) for 76.5" (1943mm) cab   |
| Cab                                       | Cab interior height OGL: 84 in (2.13m)<br>Cab interior height OGL: 80 in (2.3m)<br>Cab floor area OGL: 15.00 sq ft (1.4 sq m)<br>Cab weight OGL: 1200 lb (545 kg)   |
| Floor by others (in cab)                  | 3/4" (19 mm) maximum  |
| Footprint                                 | Octagonal+ glass: 57.8" x 57.8" (1.47 m x 1.47 m)   |
| Power supply                              | 30A, 230V, single-phase, 50/60 Hz   |
| Cab lighting                              | 15A, 115V, single-phase, 50/60 Hz   |
| Suspension                                | Type: Galvanized aircraft cable (2 x 3/8" diameter)<br>Construction: IWRC 7 x 19 RHRL<br>Nominal strength: 14,400 lb (6,545 kg)<br>Weight of ropes: 0.243 lb/ft (3.616 g/cm)<br>Travel cable weight: 0.228 lb/ft (3.393 g/cm) |
| Drive train                               | Type: Winding drum<br>Motor: 5.0 HP (3.5 KW) with integrated brake<br>Transmission: Low vibration, worm gear drive<br>Motor control: Preprogrammed variable frequency drive<br>Door interlocks: Xtronics                      |
| Pit/floor load                            | Refer to the section "Load Calculations"  |
| Distance between 2 landings               | 93.5" (2375 mm) minimum   |
| Pit depth                                 | 4" - 12" (102 mm - 305 mm)  |
| Temperature operating range (environment) | - 10°C to + 40°C / 14°F to 104°F<br><b>NOTE:</b> For optimal running conditions, each landing of the unit should be in a climate-controlled environment.  |

| Specification   | Specification Data   |
|-----------------|--|
| Safety features | Pit run/stop switch and car top run/stop switch<br>Emergency stop switch<br>Safety brakes<br>Electrical circuit overspeed<br>Manual lowering<br>Emergency battery back-up for cab lighting and lowering  |
| Options         | Optional configurations: Type 2, 3R, 6<br>Optional colors:<br><ul style="list-style-type: none"> <li>• White (Texture White PX521W859)</li> <li>• Silver (Texture Silver PX521S343)</li> <li>• Custom powder-coat frame</li> </ul> Note that Black is the standard color (Texture Black PX622N365)<br>Other options: Up to 6 stops, balcony attachment<br>Savaria Link remote monitoring (Vuelift Micro-6 only)<br>Landing door handle painted to match unit<br>Top header ring in sheet metal painted to match unit |

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## Safety First - Octagonal+ Glass (OGL)

### 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 door and the hoistway edge of the landing sill shall not exceed 0.75" (19 mm).
- Distance between the hoistway face of the landing door and the car door shall not exceed 4" (102 mm).
- Vuelift Residential Elevator design is with a maximum 1.25" (32 mm) running clearance.



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## Electrical Requirements - Octagonal+ Glass (OGL)

Your electrician and phone installer must supply the following connections:

- Main Disconnect - One 230V single-phase, 30 Amp fused disconnect box with 30 Amp fuse/breaker. If voltage is not 230V minimum, a buck-boost transformer is required.
- Lighting Disconnect - One 120V, 15 Amp fused disconnect or circuit breaker for cab lighting.
- Telephone Line - One telephone line jack in close proximity to the controller.
- Electrical Outlet - One 15A GFCI outlet shall be installed near the pit or base ring.

**NOTE:** Savaria does not provide power cable to main disconnect.

### Recommended Manufacturers for Fused Disconnect

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### 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, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

#### G.E.

- 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, 30 Amp, RK5 fuses.
- Lighting disconnect - 120V, 15 Amp fused disconnect or circuit breaker.

#### Cutler Hammer

- Main disconnect: 230V single-phase disconnect model # DH221NGK.  
240V, 30 Amp with Interlock Kit - THAUX21D Aux Contacts (normally opened/normally closed).  
In addition, two each - 250V, 30 Amp, RK5 fuses.
- Lighting disconnect: 120V, 15 Amp fused disconnect or circuit breaker.

**Recommended manufacturers for circuit breakers at the distribution panel (and the distribution panel itself): Square D or Siemens only.**

# Provisions By Others - Octagonal+ Glass (OGL)

## General

### Construction Site

The owner/agent is required to provide all masonry, carpentry, and drywall work as required. Floors shall be in a finished state prior to installation of the unit. Refer to the section, Site Preparation on the next page.

### Dimensions

The contractor/customer must verify all clearance dimensions prior to delivery of the unit.

### Structural Floor Loads

A structural engineer is required to ensure that the building will safely support all loads imposed by the lift equipment. Refer to the tables on the installation drawings (shop drawings) for pit/floor loads imposed by the equipment. Refer to the section, Load Calculations.

## Electrical

### Power Supply

See the following table. Lockable fused disconnects must be installed in compliance with electrical code and are to be provided prior to installation of the unit. Roughed in power to the lift must be provided to the head assembly location prior to installation of the unit.

| Power Supply Specifications | Disconnect Size | Time Delay Fuse Size | Volts     | Phase  |
|-----------------------------|-----------------|----------------------|-----------|--------|
| Motor and equipment         | 30 Amps         | 30 Amps              | 230 Volts | Single |
| Cab lights                  | 15 Amps         | 15 Amps              | 115 Volts | Single |
| Pit light                   | 15 Amps         | 15 Amps              | 115 Volts | Single |

### Telephone

If a telephone circuit is required, the jack is to be provided and installed by others. This circuit shall be brought to a location next to the controller and be available to connect and test upon elevator installation.

### Electrical Outlet

One 15-Amp GFCI outlet shall be installed near the pit or base ring.

### Permanent Power

Before installation can begin, permanent power must be supplied.

### Entrances Handrails

All balcony levels require handrails to be installed per local codes after installation is completed. The handrail and installation is to be provided by the contractor/customer. Savaria Concord Lifts Inc. and/or local installer are not responsible for handrail installation or materials.

### Savaria Link Option (Vuelift Micro-6 Only)

If you have the Savaria Link Ethernet remote monitoring option, ensure that you have an Ethernet connection with Internet capability in the vicinity of the unit's controller.

If you have the Savaria Link Wireless remote monitoring option, ensure that you have a wireless signal with Internet capability in the vicinity of the unit's controller.

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## Site Preparation - Octagonal+ Glass (OGL)

The following items **MUST** be completed prior to installation of the elevator.

### Finished Floors

- Finished floors be installed at all landing levels.

### 230V Power (with Switched Disconnect)

- Permanent 230V, single-phase, 30-Ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted in a location within line of sight of the elevator or controller.
- 230V source must be run from the disconnect switch to a junction box in a discrete location at the top of the elevator hoistway location.
- Disconnect must be installed according to all applicable local codes.

### 110V Power (with Switched Disconnect) - 2 are required

- Permanent 110V, single-phase, 15-Ampere dedicated power to a lockable, fused (cartridge type) disconnect switch.
- Disconnect switch must be mounted near the 230V disconnect switch.

### Telephone Works

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your local installer or building contractor for code requirements.

### Electrical Outlet

- One 15-Amp GFCI outlet shall be installed near the pit or base ring.

### Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting Savaria.

### Floor and Pit Cutouts Complete

- If a pit is to be used, a smooth, level surface of at least 4" must be provided. For pit depths greater than 12", contact Savaria to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed.
- Hole in floor, or modified balcony rail as directed by drawings.

### Check Floor to Floor Maximum and Minimum Distances

- 108" (2743mm) for 84" (2133mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration. (standard)
- 104" (2641 mm) for 80" (203 mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for modified short cab configuration. (optional)
- 96" (2438 mm) for 76.5" (1943 mm) cab minimum overhead distance from upper floor level to the underside of the finished ceiling for silica glass model. (short)

### Drywall and Painting

- All drywall and painting must be complete.

## Load Calculations - Octagonal+ Glass (OGL)

- Primary loads are carried by the four support columns that run from top to bottom on the elevator.
- The load (represented below as Lower Floor Total Load) is supported on 4"x4" plates at the bottom of each of the four columns.
- Each middle floor carries a separate Mid Floor Load supporting only that floor's metal floor rings, while the main cab/hoistway load (Lower Floor Total Load) is transferred fully to the bottom floor.
- Walls of bricks, terra-cotta, hollow blocks, and similar materials shall not be used for attachment of column (guide rail) brackets unless adequately reinforced.
- Where necessary, the building construction shall be reinforced to provide adequate support for the columns (guide rails).
- All mid floors including the bottom floor may be subjected to a maximum lateral load of 250 lb.
- Shipping weight is estimated actual including crating materials, etc.
- Floor load figures include elevator structure weight when loaded with full test capacity.
- Floor load figures shown here are actual loads; your building engineer must add a proper factor of safety to the floor design.
- Many jurisdictions require floor designs to include at least a safety factor of 4, doubling the loads shown here.
- **To reiterate, the figures below DO NOT include your factor of safety for floor loads.** Engineer your floor to include (add) an appropriate safety factor and comply with local building codes.

Lower Floor Dead Load (lbs) = (114 x feet of hoistway) + (415 x number of floors) + 3091 lbs

Lower Floor Dead Load (Kg) = (170 x meter of hoistway) + (188 x number of floors) + 1402 lbs

Lower Floor Impact Load (lbs) = 9741 lbs (4418 Kg)

Lower Floor Total Load (lbf) = Dead Load + Impact Load

Mid Floor Load (lbf) = 250 lbs (113kg)

Shipping Weight (lb) = (1226 x number of floors) + 3091

**Note:** Shipping weight includes all actual part weights for lower and mid floor loads using 12' per floor, plus shipping packaging weight.

## Drawings - Octagonal+ Glass (OGL)

### Octagonal+ Glass (OGL)

- Plan view
- Pit view
- Base mount details
- Thru-floor view
- Balcony view
- Balcony plate and handrail information
- Thru-floor details
- Balcony details
- Elevation view
- Elevation view (showing extra header rings for floor-to-floor height >14 ft)
- Pit cutout/thru-floor cutout
- Datasheet
- Machine room layout and wire routing



## Model Specifications – Octagonal+

### Octagonal+ Glass)

- Capacity: 432kg 950 lb)
- Cab Size: 1.4 sqm (15 sq. ft.)
- Clear Cab Size: 1149w x 1253d 45.25 x 49.3 in.)
- Cab Height: 2134mm (84 in.)
- Hoistway Footprint
  - Glass: 1468 x 1468mm (57.8 x 57.8 in.)
  - Pit/Thru Floor Cutout: 1432x 1432mm (56.38 x 56.38 in.)
  - Balcony/Header Ring: 1473 x 1473mm (58 x 58 in.)
  - Pit/Thru Floor Ring: 1574mm (62 x 62 in.)
- Minimum Overhead Clearance: 2743mm (108 in.)  
for 2133 mm (84 in) cab
- Minimum Overhead Clearance: 2641 mm (104 in.)  
for 2032 mm (80 in.) cab

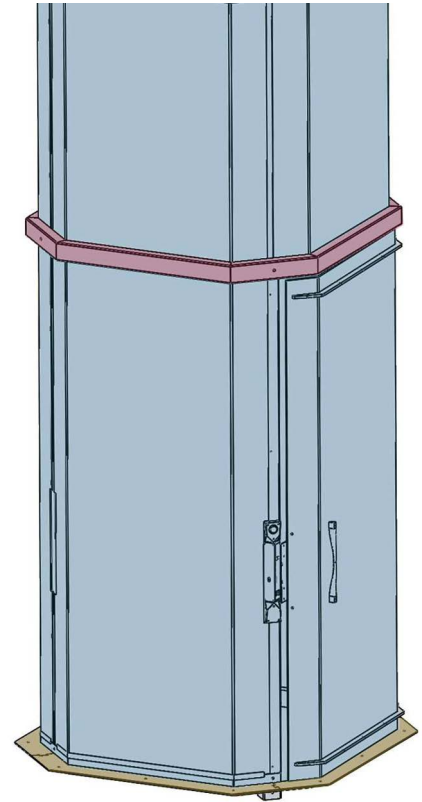
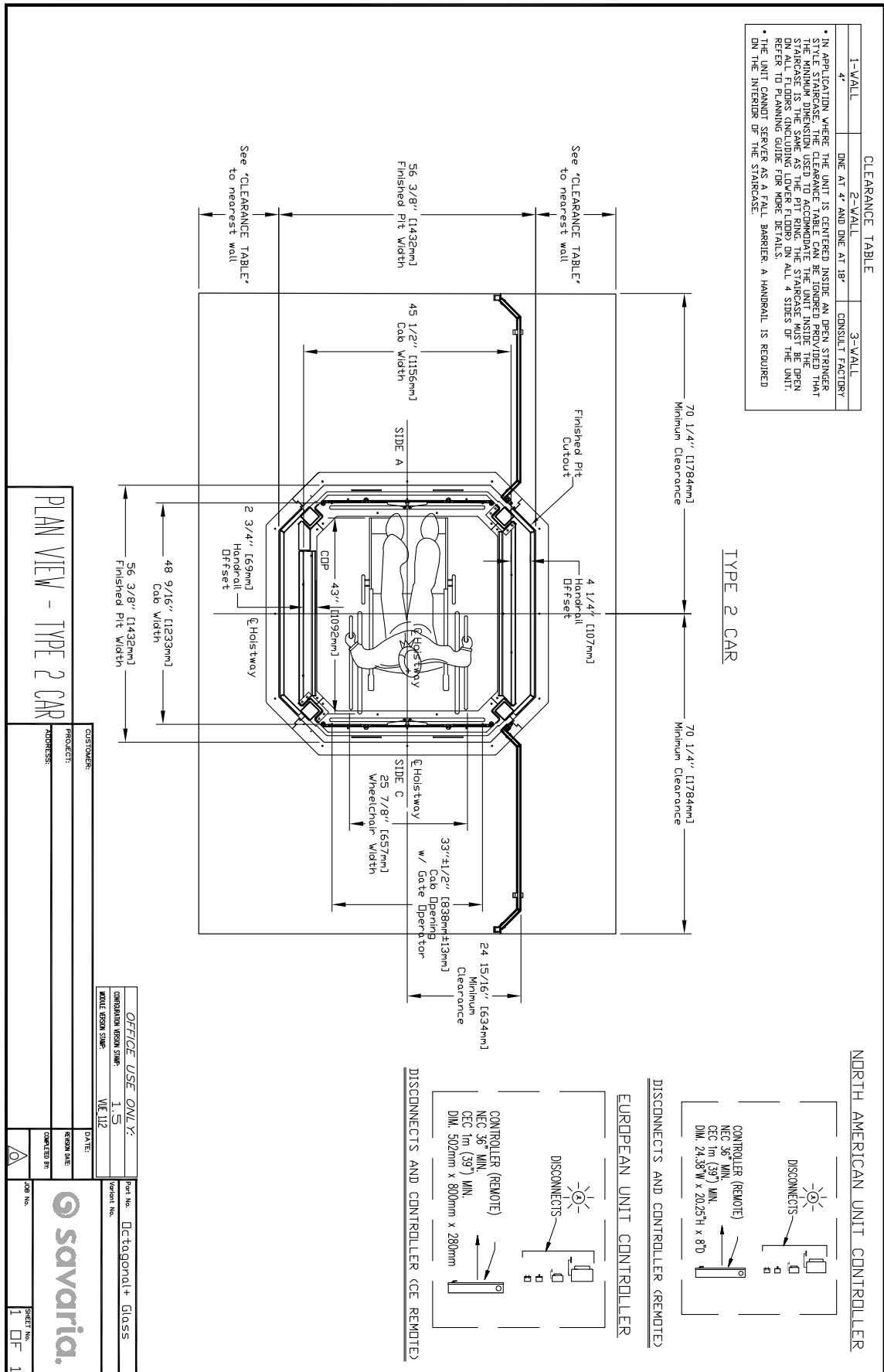




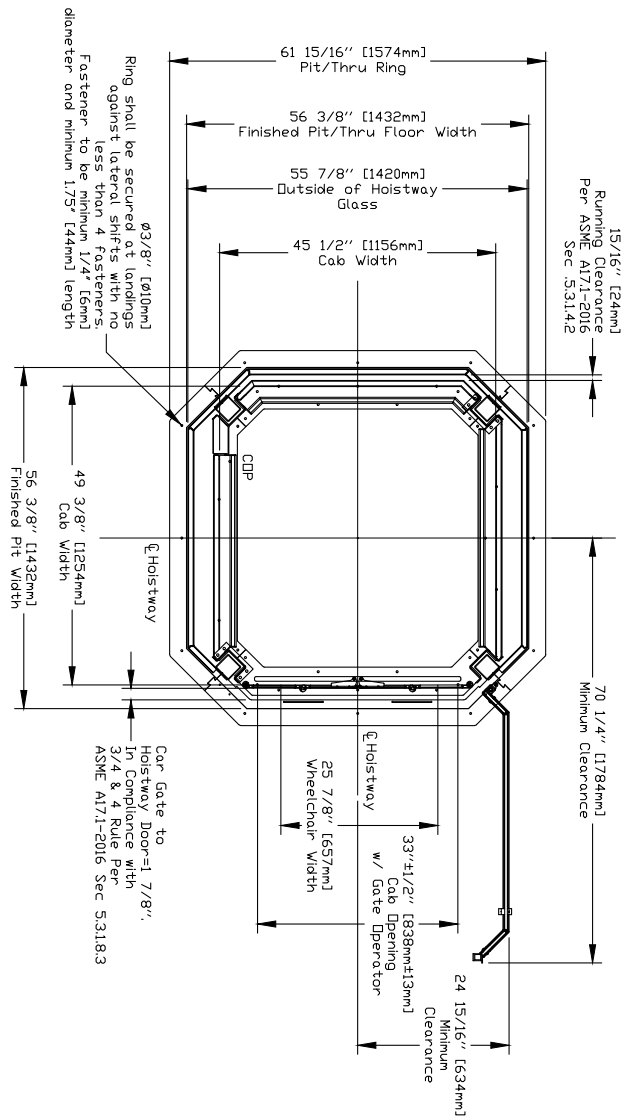
Figure 61: Plan view - octagonal+ glass (OGL) type 2







Disregard and remove page for Pitless applicable

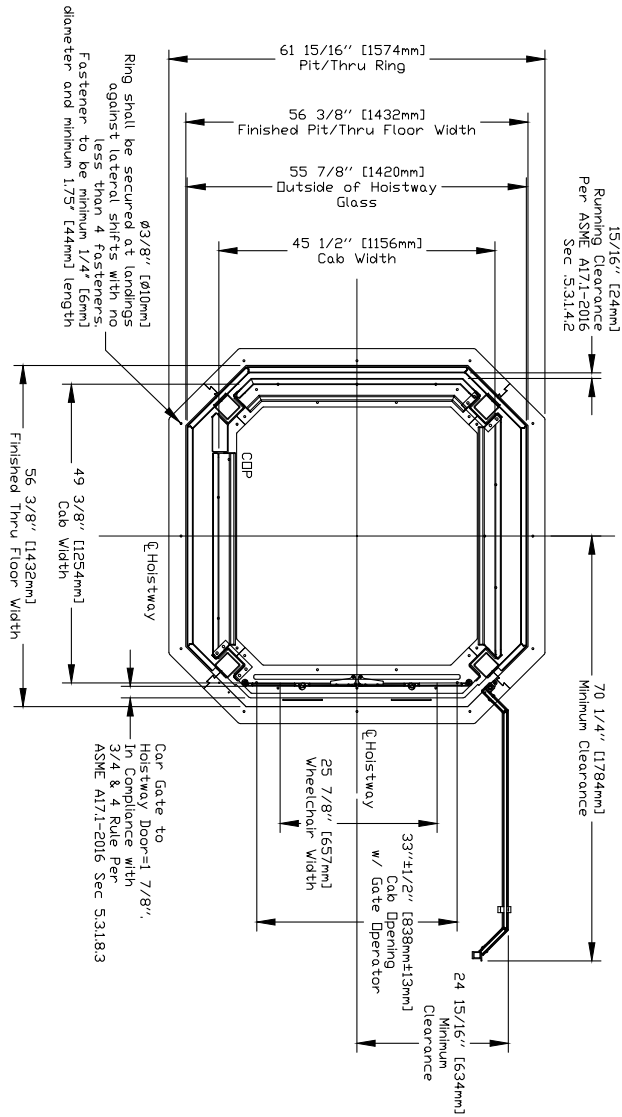


|          |  |              |  |
|----------|--|--------------|--|
| PROJECT: |  | D-TER        |  |
| ADDRESS: |  | REGION 5-B   |  |
|          |  | CONTRACT NO. |  |
|          |  | JOB NO.      |  |
|          |  | SHEET NO.    |  |
|          |  | 20 OF 5      |  |



Figure 65: Thru-floor view - octagonal+ glass (OGL) type 1, 2 or 3

No heated floor 4" [102mm] around any landing & inside the pit of footprint.



Disregard and remove page if Thru Floor Configuration is not used or applicable

|                               |  |            |  |                  |  |                           |  |
|-------------------------------|--|------------|--|------------------|--|---------------------------|--|
| FLOOR 2 - THRU FLOOR VIEW TYP |  | PROJECT    |  | OFFICE USE ONLY  |  | Part No. Octagonal+ Glass |  |
| ADDRESS                       |  | DATE       |  | CONTRACT NO. 1.5 |  | Project No.               |  |
| PROJECT                       |  | REVISION   |  | VUE-112          |  | 3 OF 9                    |  |
| DRAWN BY                      |  | CHECKED BY |  | SAVARIA          |  |                           |  |
| JOB NO.                       |  | SHEET NO.  |  |                  |  |                           |  |

Figure 66: Balcony view - octagonal+ glass (OGL) type 1, 2 or 3

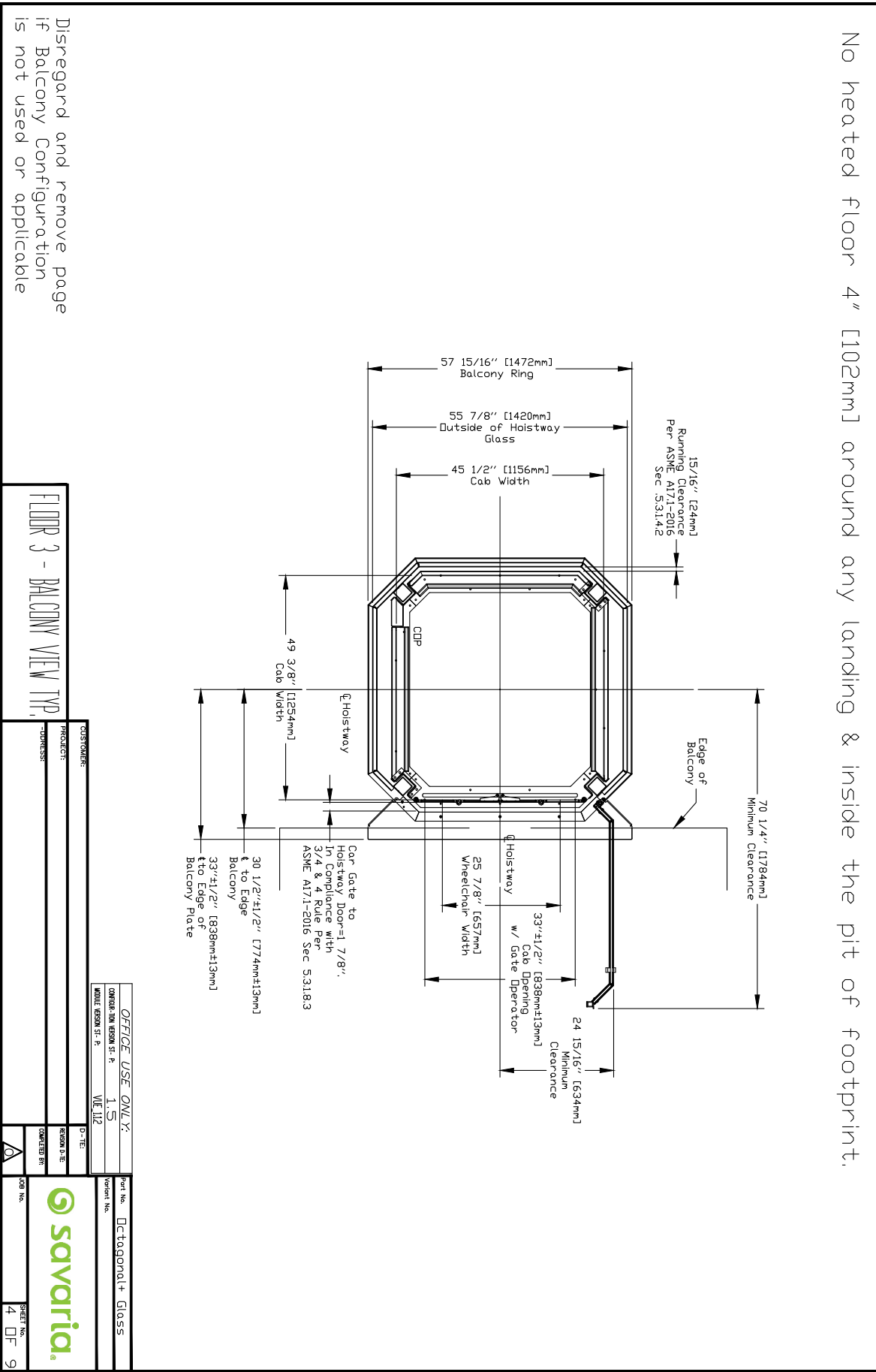


Figure 67 Balcony plate and handrail information - octagonal+ glass (OGL) type 1 shown



The Vuelift balcony plate provides a vertical flange on either side that can be used to mount the adjacent handrail. This plate is made of 3/16" steel and is designed to support the handrail loading and forces.

The photo above shows a finished handrail view. It is important to note that the spacing between the handrail post and the elevator shaft is 1" (25.4 mm) to allow sufficient clearance for the operation of the hoistway door and the hall call button.

**NOTE:** Installing the handrail on top of the balcony plate is NOT permitted as it will interfere with the door opening operation and door clearances.

Figure 68: Thru-floor details - octagonal+ glass (OGL) type 1, 2 or 3

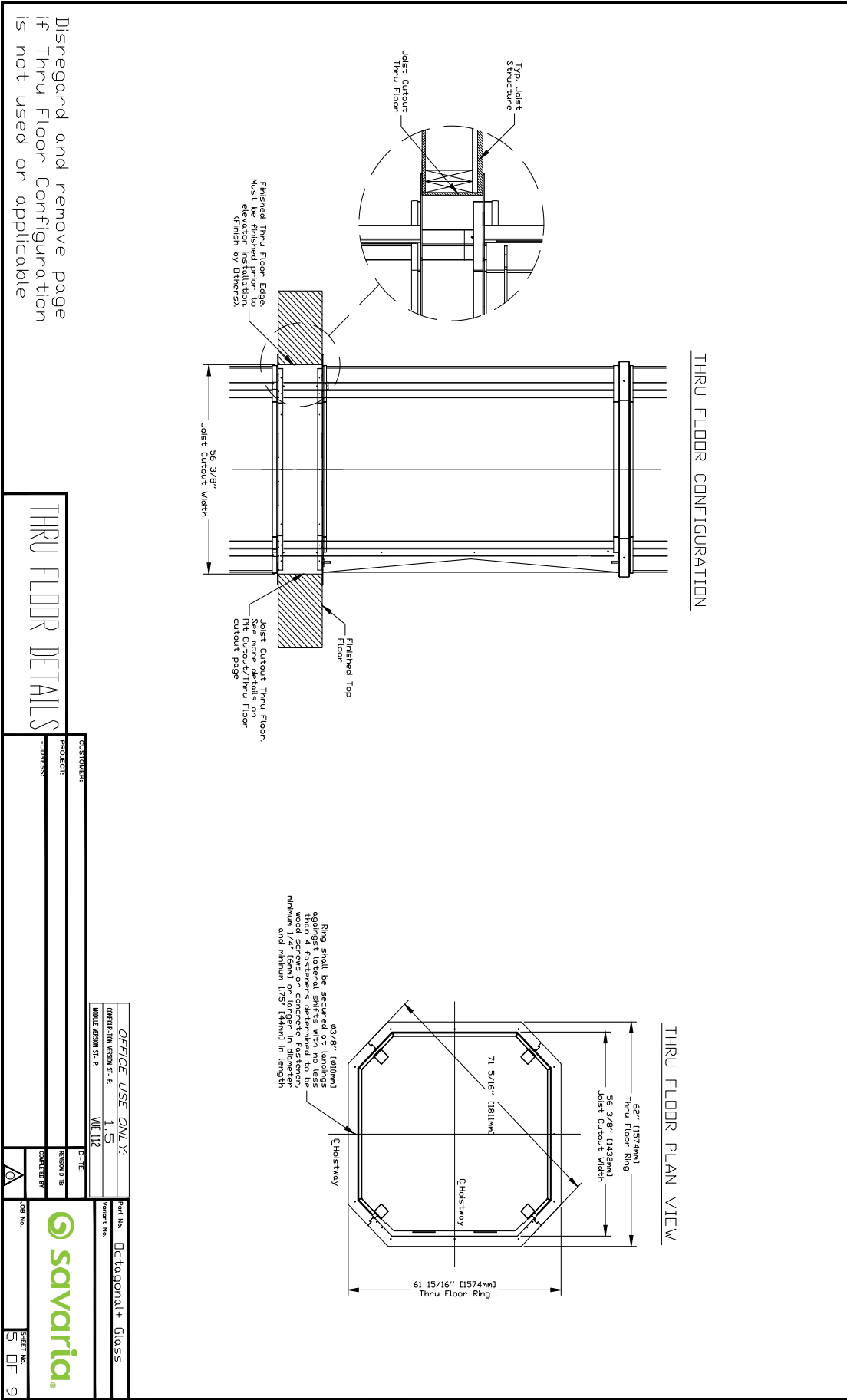


Figure 69: Balcony details - octagonal+ glass (OGL) type 1, 2 or 3

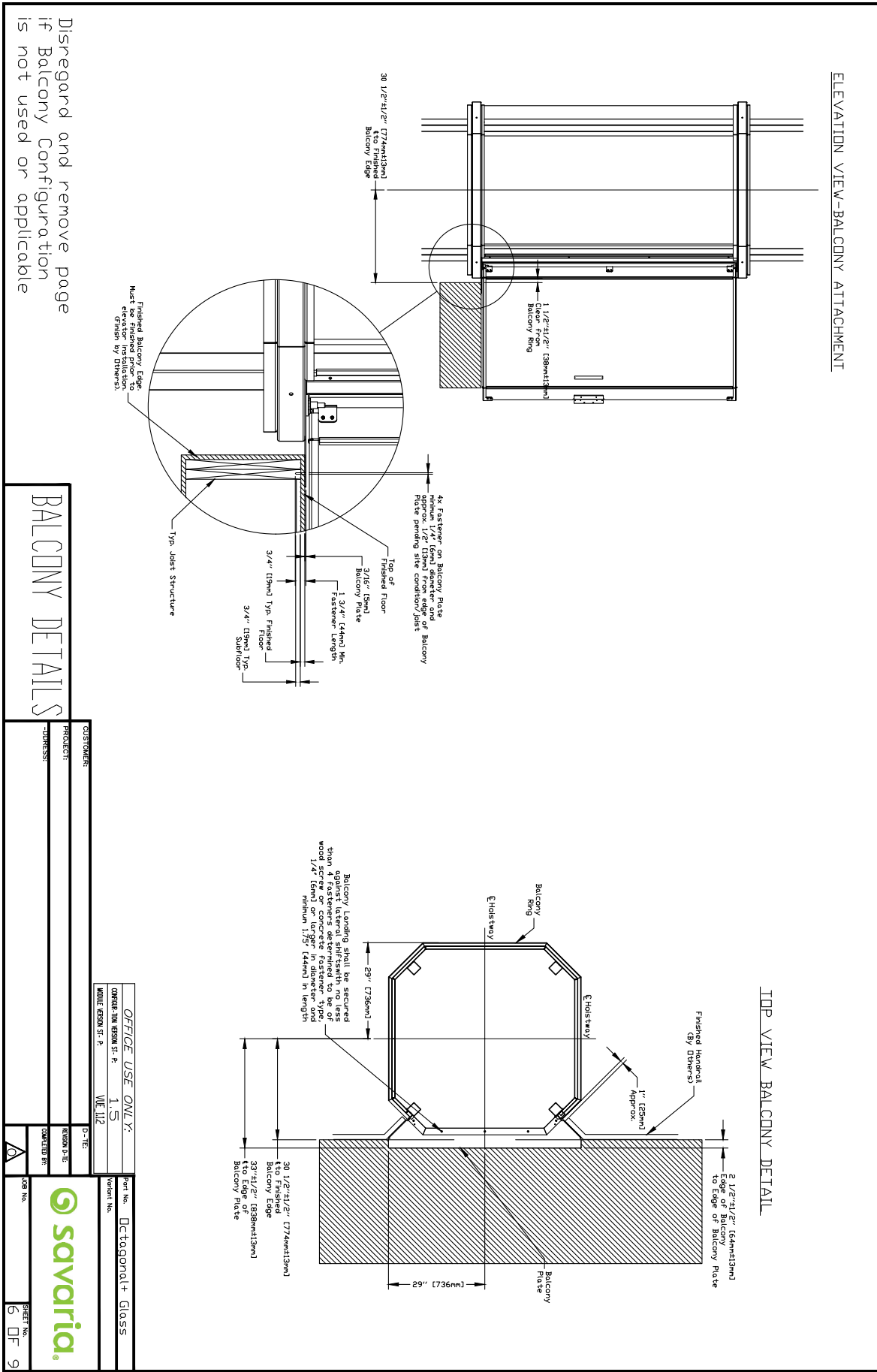
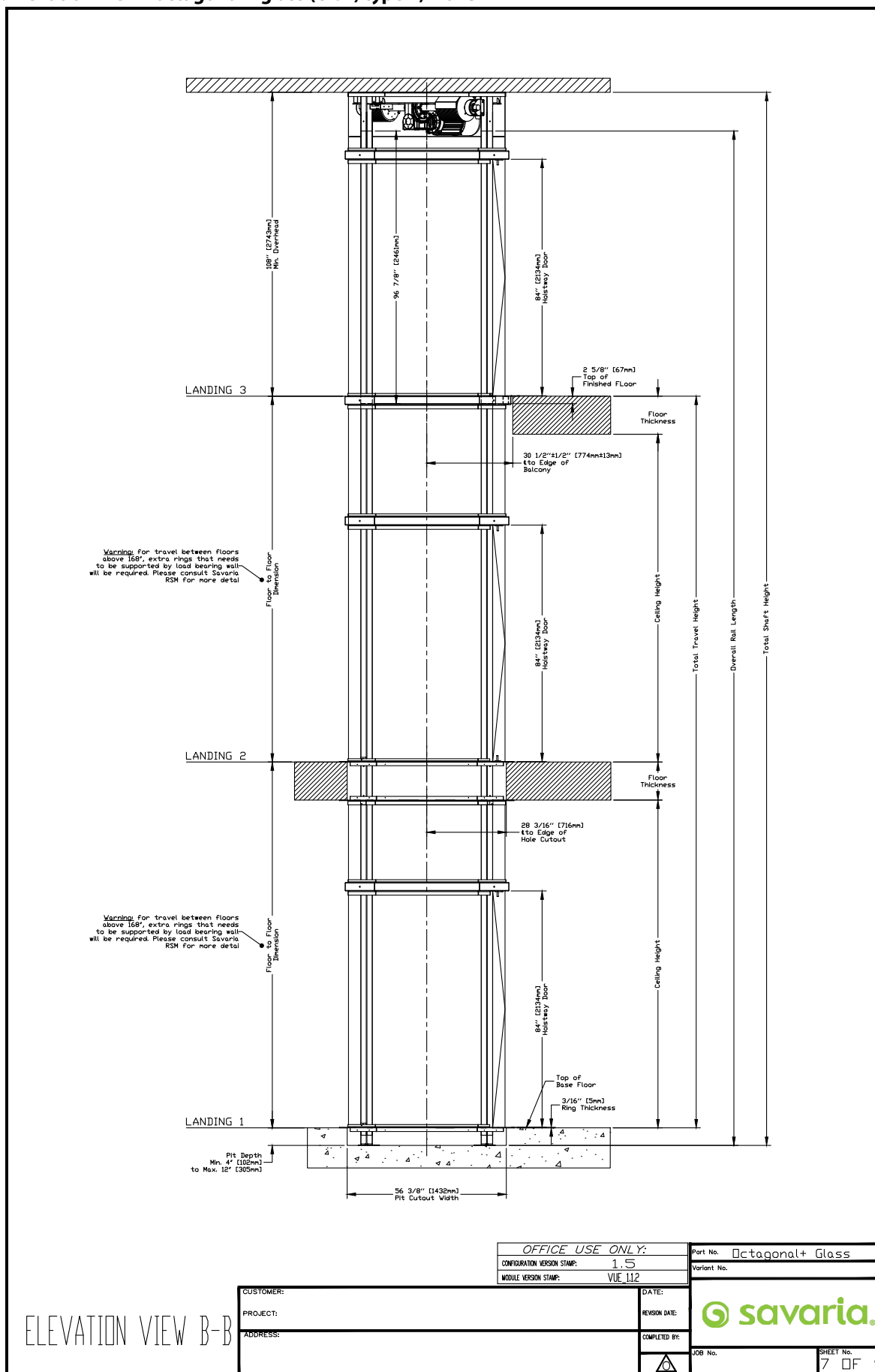




Figure 70: Elevation view - octagonal+ glass (OGL) type 1, 2 or 3



**Figure 71: Pit cutout/thru-floor cutout - octagonal+ glass (OGL) type 1, 2 or 3**

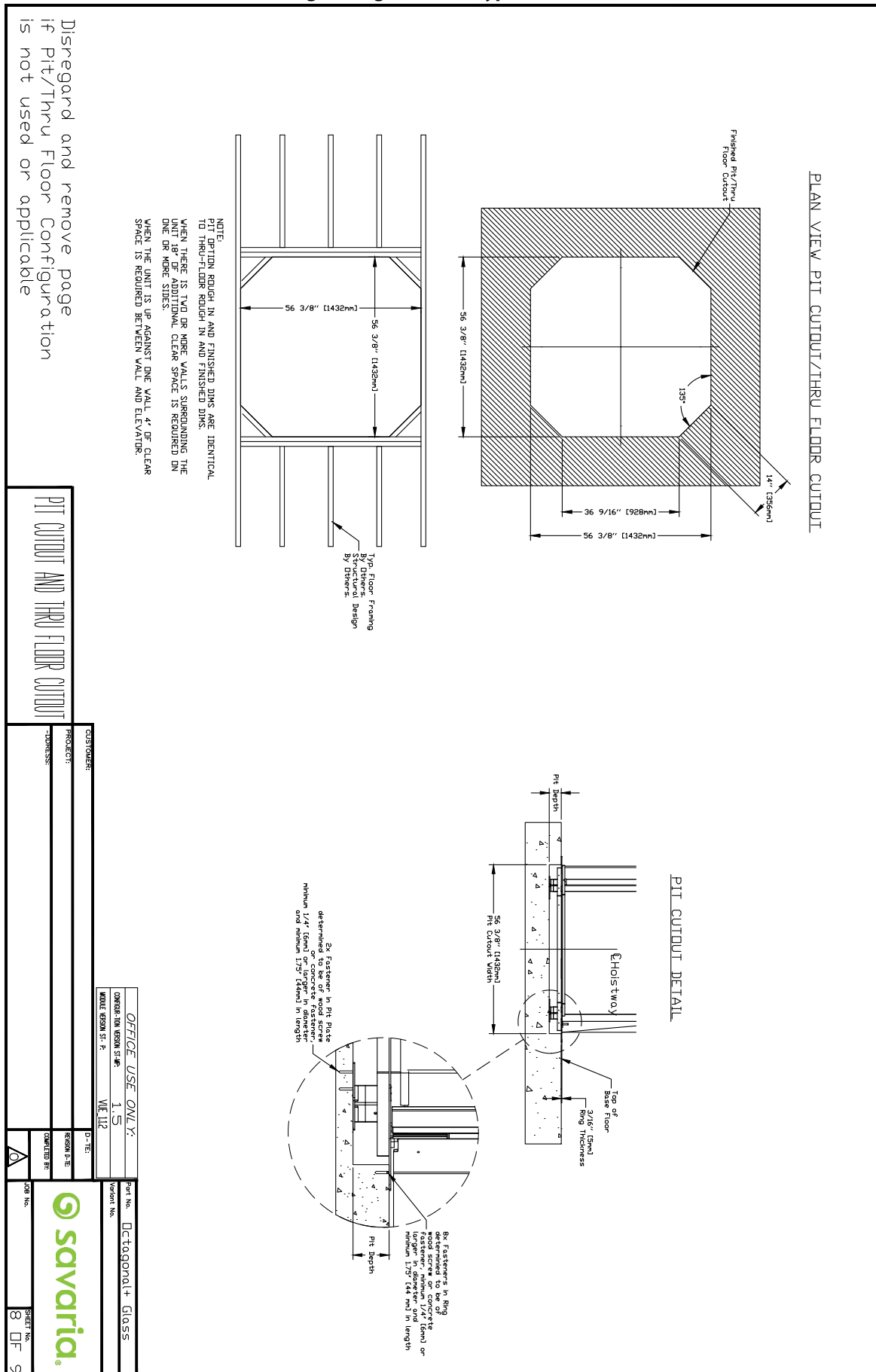
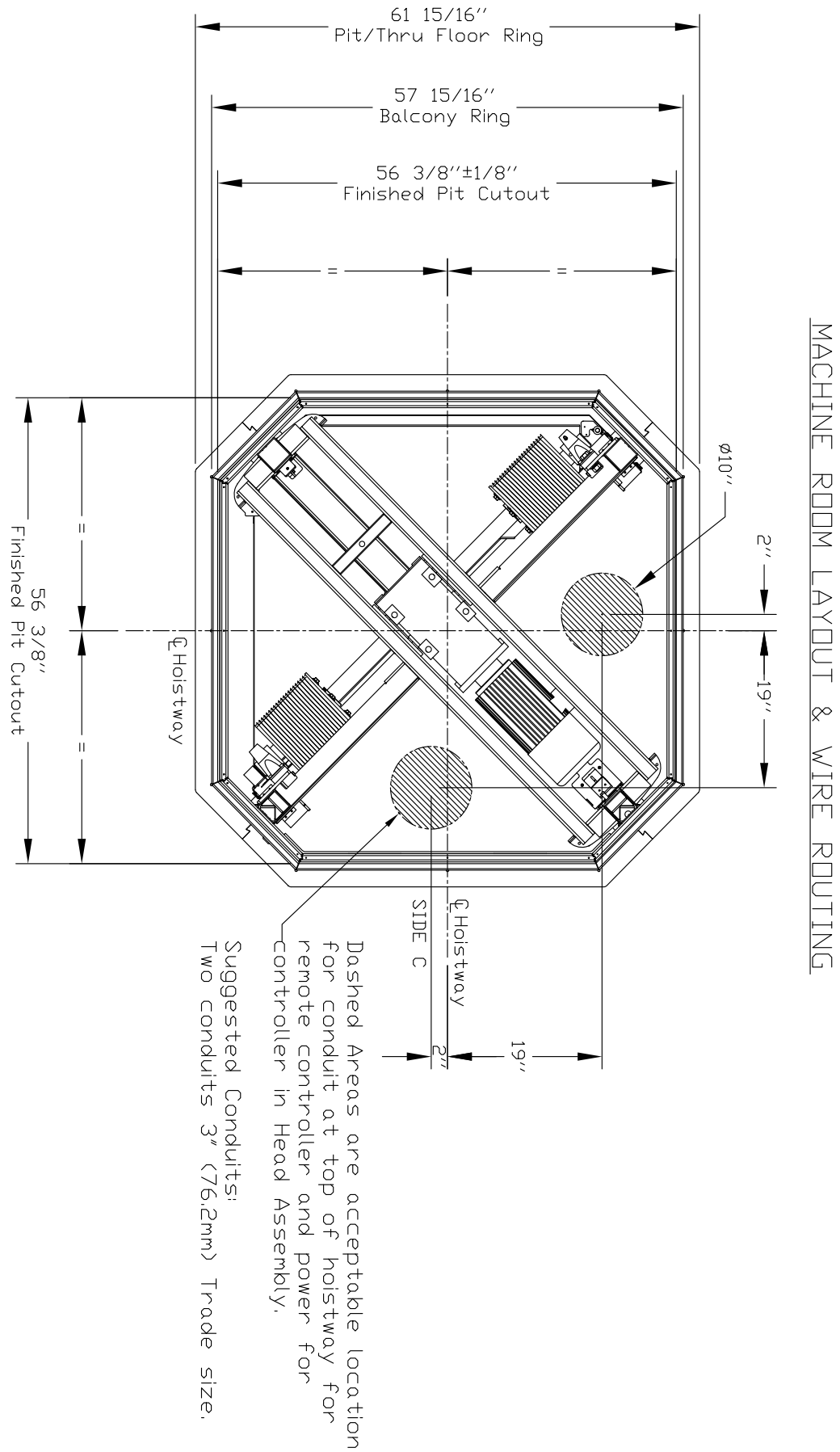


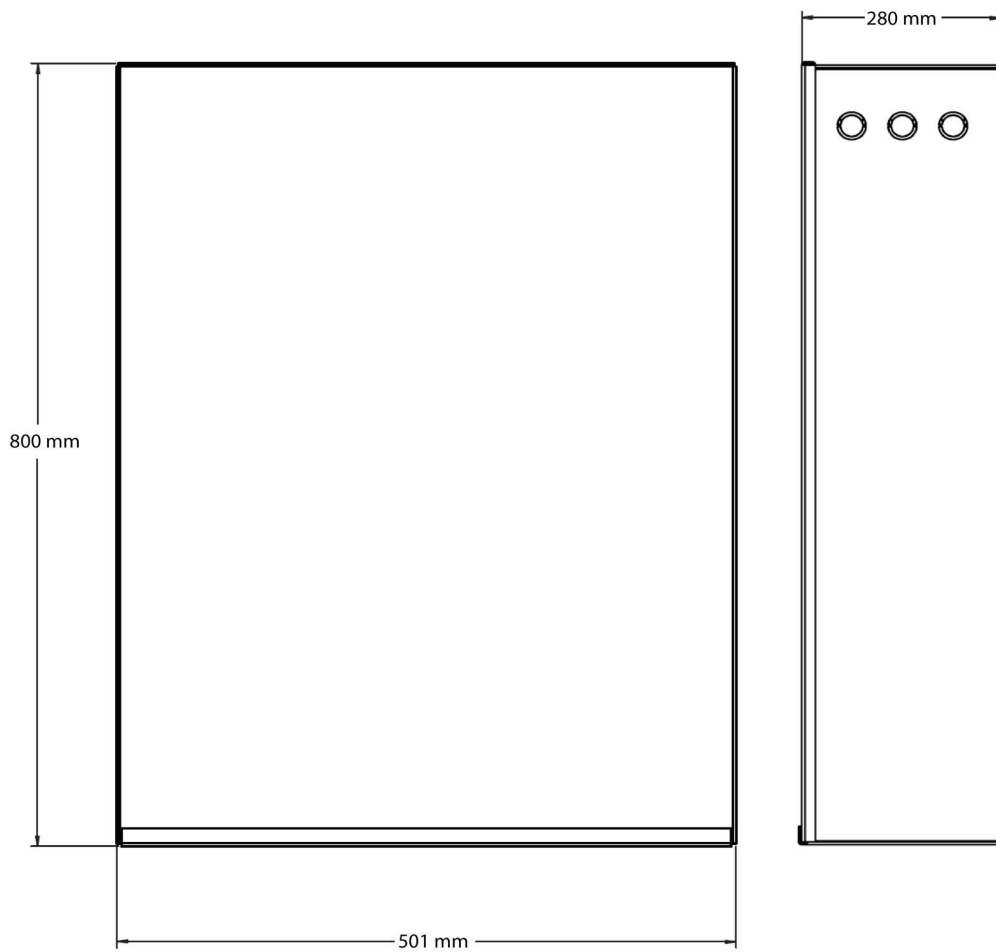
Figure 72: Datasheet - octagonal+ glass (OGL) type 1, 2 or 3

| PROVISIONS BY OTHERS   |                    |                     |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
|--|--------------------|---------------------|----------------|-----------------------------|--------------------|-------------------------|------------------|----------------------------|------------------|---------------|---------|---------------|--------|--------|----------|-------------|----------------|----------------|----------------|------------|--------|--------------------------|---------|----------------------|-----|-------------|-----|---------------|---|-------------|-----|-----------------------|-------------|---------------------|---------------|
| <p><b>GENERAL</b></p> <p>CONSTRUCTION SITE: OWNER/AGENT TO PROVIDE ALL MASONRY, CARPENTRY AND BRICKLAYER WORK AS REQUIRED. FLOORS SHALL BE IN FINISHED STATE PRIOR TO INSTALLATION OF UNIT.</p> <p>DISSIPATION: CONTRACTOR/CUSTOMER TO VERIFY ALL DIMENSIONS.</p> <p><b>STRUCTURAL</b></p> <p>FLOOR LOADS: STRUCTURAL ENGINEER TO ASSURE THAT BUILDING WILL SAFELY SUPPORT LOADS IMPOSED BY THE LIFT EQUIPMENT. REFER TO TABLES ON THIS DRAWING FOR PIT/FLOOR LOADS IMPOSED BY THE EQUIPMENT.</p> <p><b>ELECTRICAL</b></p> <p>POWER SUPPLY: (SEE SPECIFICATIONS BELOW) LOCKABLE FUSED DISCONNECTS SHALL BE PROVIDED IN COMPLIANCE WITH ELECTRICAL CODE TO BE PROVIDED PRIOR TO INSTALLATION. THE ELECTRICAL CODE TO BE PROVIDED PRIOR TO INSTALLATION. ELECTRICAL GFCI OUTLET IN HOISTWAY PIT IF REQUIRED.</p> <p>PERMANENT POWER: BEFORE INSTALLATION CAN BEGIN, PERMANENT POWER MUST BE SUPPLIED.</p> <p>HANDRAILS: ALL BALCONY LEVELS REQUIRE HANDRAILS TO BE INSTALLED PER LOCAL CODES. AFTER INSTALLATION IS COMPLETED, HANDRAIL AND INSTALLATION TO BE PROVIDED PRIOR TO INSTALLATION. CONTRACTOR/INSTALLER SHALL BE RESPONSIBLE FOR HANDRAIL INSTALLATION OR MATERIALS.</p> <table border="1"> <thead> <tr> <th>POWER SUPPLY SPECIFICATIONS</th> <th>DISCONNECT SIZE</th> <th>FUSE SIZE</th> <th>VOLTS</th> <th>PHASE</th> <th>AMPERAGE</th> </tr> </thead> <tbody> <tr> <td>MOTOR &amp; EQUIP</td> <td>30 AMPS</td> <td>30 AMPS</td> <td>230</td> <td>SINGLE</td> <td>202 AMPS</td> </tr> <tr> <td>CAB LIGHTS</td> <td>15 AMPS</td> <td>15 AMPS</td> <td>115</td> <td>SINGLE</td> <td>-</td> </tr> <tr> <td>PIT LIGHTS (if required)</td> <td>15 AMPS</td> <td>15 AMPS</td> <td>115</td> <td>SINGLE</td> <td>-</td> </tr> </tbody> </table> <p>TELEPHONE CIRCUIT SHALL BE BROUGHT TO A LOCATION NEXT TO THE CONTROLLER AND BE AVAILABLE TO CONNECT AND TEST UPON ELEVATOR INSTALLATION.</p> <p>OPTIONS:</p> <ol style="list-style-type: none"> <li>1. SAVARIA LINK WITH ANTENNA.</li> <li>2. SAVARIA LINK WITH ETHERNET.</li> <li>3. SAVARIA LINK WITH ETHERNET CONNECTION WITH INTERNET CAPABILITY IN THE VICINITY OF UNITS CONTROLLER.</li> <li>3.A NO SAVARIA LINK: NO SPECIAL REQUIREMENT</li> </ol> |                    |                     |                | POWER SUPPLY SPECIFICATIONS | DISCONNECT SIZE    | FUSE SIZE               | VOLTS            | PHASE                      | AMPERAGE         | MOTOR & EQUIP | 30 AMPS | 30 AMPS       | 230    | SINGLE | 202 AMPS | CAB LIGHTS  | 15 AMPS        | 15 AMPS        | 115            | SINGLE     | -      | PIT LIGHTS (if required) | 15 AMPS | 15 AMPS              | 115 | SINGLE      | -   |               |   |             |     |                       |             |                     |               |
| POWER SUPPLY SPECIFICATIONS  | DISCONNECT SIZE    | FUSE SIZE           | VOLTS          | PHASE                       | AMPERAGE           |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| MOTOR & EQUIP  | 30 AMPS            | 30 AMPS             | 230            | SINGLE                      | 202 AMPS           |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| CAB LIGHTS   | 15 AMPS            | 15 AMPS             | 115            | SINGLE                      | -                  |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| PIT LIGHTS (if required)   | 15 AMPS            | 15 AMPS             | 115            | SINGLE                      | -                  |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| <p><b>GENERAL</b></p> <p>CLASSIFICATION: Residential Building</p> <p>APPLIED CODE: ASME 171-2016 SEC. 5.3</p> <p>NUMBER OF FLOORS: 6 Max.</p> <p>WALLS: Glass Cab</p> <p>CAPACITY: 950 lbs (432 kg)</p> <p>NOMINAL SPEED: 40 fpm UP AND DOWN</p> <p>TOTAL TRAVEL: 15 sqft - 1.4 m<sup>2</sup></p> <p>CAB FLOOR AREA: 84" (2133 mm)</p> <p>CAB INT. HEIGHT: 1200 lb (545 kg)</p> <p>PIT DEPTH (OPTIONAL): 60 Hz Single Phase 240 volt (60Hz)</p> <p>POWER SUPPLY: Automatic Op. Bi-Fold(s)</p> <p>CAB DOOR: ASME A17.1 Sections 217.81 &amp; 117.51</p> <p>SAFETIES: Mfg. Savaria P/N/VL481001-01</p> <p><b>SUSPENSION:</b></p> <p>TYPE: Galvanized Aircraft Cable 2x3/8" dia</p> <p>CONSTRUCTION: 11400 lbs (5181 kg)</p> <p>NOMINAL STRENGTH: 14400 lbs (6531 kg)</p> <p>W.T. OF ROPES: 0.243 lbs/ft (3.616 g/cm)</p> <p>TRAVEL CABLE W.T.: 0.228 lbs/ft (3.393 g/cm)</p> <p><b>DRIVE/RAIN:</b></p> <p>TYPE: Wrapping Drum</p> <p>MOTOR: 5 HP (3.5 Kw)</p> <p>TRANSMISSION: Ultra-Low Vibration 3-Stage Right Angle Helical-Bevel Drive</p> <p>MOTOR CONTROL: Pre-Programmed Variable Freq. Drive</p> <p>DOOR INTERLOCKS: Xtronics E10983-1901 Certified in compliance with ASME A17.1 Section 217.81 &amp; 117.51</p> <p>PIT/FLOOR LOAD: (n of Hoistway*170) + (4# of Floors*188) + 1402 Dead Load (kg)</p>  |                    |                     |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| <p>Based on this configuration:</p> <table border="1"> <tbody> <tr> <td>LOWER FLOOR DEAD LOAD</td> <td>9741 lbs (4427 kg)</td> </tr> <tr> <td>LOWER FLOOR IMPACT LOAD</td> <td>250 lbs (113 kg)</td> </tr> <tr> <td>MAX MID FLOOR LATERAL LOAD</td> <td>250 lbs (113 kg)</td> </tr> </tbody> </table> <p>* SEE ELEVATION VIEW FOR ADDITIONAL HEATER RING TO SUPPORT EXTRA LONG FLOOR TO FLOOR OPTIONS:</p> <p>BUCK BOOSTER: Required if input power supply is not 240 volt AC</p> <p>BUCK RING: If applicable for habitable space below Min. pit 4'</p> <p>CAR TOP INSPECTION: Distance between Head Frame and Control Room</p> <p>COLOR: Minimum 3' clearance to hoistway</p> <p>CONDUCTOR CABLE: Clear glass (Standard)</p> <p>CONTROLLER LOCATION: Cut on site or Factory cut</p> <p>HEAD RING FINISH: Factory cut (GLASS/ACRYLIC)</p> <p>FLOOR FINISH: Stainless Steel (Standard)</p> <p>FLOOD SWITCH: LANDING DOOR HANDLE: _____</p>  |                    |                     |                | LOWER FLOOR DEAD LOAD       | 9741 lbs (4427 kg) | LOWER FLOOR IMPACT LOAD | 250 lbs (113 kg) | MAX MID FLOOR LATERAL LOAD | 250 lbs (113 kg) |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| LOWER FLOOR DEAD LOAD  | 9741 lbs (4427 kg) |                     |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| LOWER FLOOR IMPACT LOAD  | 250 lbs (113 kg)   |                     |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| MAX MID FLOOR LATERAL LOAD   | 250 lbs (113 kg)   |                     |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| <p><b>FIRST DOOR BY LANDING CHART</b></p> <table border="1"> <thead> <tr> <th></th> <th>LANDING 1</th> <th>LANDING 2</th> <th>LANDING 3</th> </tr> </thead> <tbody> <tr> <td>DOOR TYPE</td> <td>Side D</td> <td>Side D</td> <td>Side D</td> </tr> <tr> <td>ENTRANCE SIDE</td> <td>Side C</td> <td>Side C</td> <td>Side C</td> </tr> <tr> <td>DOOR SWING</td> <td>LH or RH Swing</td> <td>LH or RH Swing</td> <td>LH or RH Swing</td> </tr> <tr> <td>LOCK TYPE</td> <td>X Lock</td> <td>X Lock</td> <td>X Lock</td> </tr> <tr> <td>HALL CALL KEY SWITCH</td> <td>NO</td> <td>NO</td> <td>NO</td> </tr> <tr> <td>FLOOR MARKING</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>LANDING CONFIGURATION</td> <td>Pit or Ramp</td> <td>Typical Floor Shown</td> <td>Balcony Shown</td> </tr> </tbody> </table>  |                    |                     |                |                             | LANDING 1          | LANDING 2               | LANDING 3        | DOOR TYPE                  | Side D           | Side D        | Side D  | ENTRANCE SIDE | Side C | Side C | Side C   | DOOR SWING  | LH or RH Swing | LH or RH Swing | LH or RH Swing | LOCK TYPE  | X Lock | X Lock                   | X Lock  | HALL CALL KEY SWITCH | NO  | NO          | NO  | FLOOR MARKING | 1 | 2           | 3   | LANDING CONFIGURATION | Pit or Ramp | Typical Floor Shown | Balcony Shown |
|  | LANDING 1          | LANDING 2           | LANDING 3      |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| DOOR TYPE  | Side D             | Side D              | Side D         |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| ENTRANCE SIDE  | Side C             | Side C              | Side C         |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| DOOR SWING   | LH or RH Swing     | LH or RH Swing      | LH or RH Swing |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| LOCK TYPE  | X Lock             | X Lock              | X Lock         |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| HALL CALL KEY SWITCH   | NO                 | NO                  | NO             |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| FLOOR MARKING  | 1                  | 2                   | 3              |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| LANDING CONFIGURATION  | Pit or Ramp        | Typical Floor Shown | Balcony Shown  |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| <p><b>DATA SHEET</b></p> <table border="1"> <thead> <tr> <th colspan="2">PROJECT</th> <th colspan="2">DATE</th> </tr> </thead> <tbody> <tr> <td>PROJECT NO.</td> <td>1.5</td> <td>PROJECT NO.</td> <td>1.5</td> </tr> <tr> <td>ADDRESS</td> <td></td> <td>DATE</td> <td>11/2</td> </tr> <tr> <td>DESIGNED BY</td> <td></td> <td>REVISION DATE</td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> <td>DATE</td> <td></td> </tr> <tr> <td>DATE</td> <td></td> <td>PROJECT NO.</td> <td>1.5</td> </tr> <tr> <td>DATE</td> <td></td> <td>PROJECT NO.</td> <td>1.5</td> </tr> <tr> <td>DATE</td> <td></td> <td>PROJECT NO.</td> <td>1.5</td> </tr> </tbody> </table> <p><b>OFFICE USE ONLY:</b></p> <p>CONSTRUCTION DESIGN NAME: 1.5</p> <p>MODEL DESIGN NAME: VIE-112</p> <p><b>SAVARIA</b></p> <p>Part No. Octagonal+ Glass</p> <p>9 OF 9</p>  |                    |                     |                | PROJECT                     |                    | DATE                    |                  | PROJECT NO.                | 1.5              | PROJECT NO.   | 1.5     | ADDRESS       |        | DATE   | 11/2     | DESIGNED BY |                | REVISION DATE  |                | CHECKED BY |        | DATE                     |         | DATE                 |     | PROJECT NO. | 1.5 | DATE          |   | PROJECT NO. | 1.5 | DATE                  |             | PROJECT NO.         | 1.5           |
| PROJECT  |                    | DATE                |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| PROJECT NO.  | 1.5                | PROJECT NO.         | 1.5            |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| ADDRESS  |                    | DATE                | 11/2           |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| DESIGNED BY  |                    | REVISION DATE       |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
| CHECKED BY   |                    | DATE                |                |                             |                    |                         |                  |                            |                  |               |         |               |        |        |          |             |                |                |                |            |        |                          |         |                      |     |             |     |               |   |             |     |                       |             |                     |               |
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**ENTRANCE SIDE LEGEND**

**Figure 73: Machine room layout and wire routing - octagonal+ glass (OGL) type 1, 2 or 3**



**Figure 74: Controller box dimensions - round+ glass & octagonal+ glass (RGL & OGL) type 1, 2 or 3**

# Site Preparation Checklist

## Vuelift Round -OR- Octagonal Acrylic

**Vuelift Elevators CANNOT be installed without ALL of the following items completed. Prior to any onsite installation team arriving Vuelift requires that the following items be completed:**

- **Finished Floors Completed**

- Prior to elevator installation beginning finished floors MUST be installed at all landing levels as the landing rings sit on top of the finished floor.

- **230V Power with Fused Disconnect**

- Quantity 1: Permanent 230V single phase 30 ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
  - Disconnect switch must be mounted in the elevator control panel room.
  - Disconnect must be installed according to all applicable local codes.

- **120V Power with Fused Disconnect**

- Quantity 1: Permanent 120V single phase 15 ampere dedicated power to a lockable fused (cartridge type) disconnect switch.
  - Disconnect switch must be mounted in the elevator control panel room.
  - V source must be run from the disconnect switch to a junction box in a discrete location within 3' of the top of the elevator hoistway location (If required by the applicable local code).

- **Conduit from Elevator Control Room to Top of Elevator Hoistway**

- 1 @ 1" trade size for the 240VAC motor wire
- 1 @ 2" (or 3" for 4 stops trade size for all low voltage wires

- **Telephone Works**

- Telephone jack must be provided next to the electrical disconnects. This can be the common house line in most jurisdictions. Please check with your building contractor for code requirements.

- **Floor Built for Load**

- Smooth level surface for installing the elevator with floor load bearing capacity for the elevator plus rated load. An exact specification can be provided by contacting your local installer or our factory.

- **Floor and Pit Cutouts Completed**

- If a pit is to be used, a smooth level surface of at least 4" must be provided. For pit depths greater than 12", contact your local installer to ensure proper equipment will be provided.
- It is recommended that any pit floor and walls be finished prior to installation. Pit floor and walls are visible after elevator installation is completed. Dimensions on drawings are to finished surfaces.
- Hole in floor or modified balcony rail as directed by drawings.

- **Check Floor to Floor Max and Min Distances**

- All measurements on site to match the job specific drawings.
- Minimum overhead to match the job specific drawings.

- **Walls and Painting Must be Completed**

- Drywall or Plaster sanding finishing and painting must be completed.

- **Jobsite Clean**

- Jobsite should be clean. Debris which could damage the elevator should be removed.

# **Vuelift**

## **Residential Elevator PLANNING GUIDE**

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