



Vuelift Mini

**Residential
Elevator**

**Planning
Guide
(Europe)**

 **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 next page. Please consult Savaria or the authorized Savaria dealer in your area for more specific information pertaining to your project, including any discrepancy between referenced standards and those of any local codes or laws.

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

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

Purpose of This Guide

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

- EN 81-41:2010 Special lifts for the transport of persons and goods
- Directive 2006/42/CE (machinery directive)
- Directive 2014/30/CE (EMC directive)
- Directive 2014/35/CE (low voltage directive)

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 drawings and dimensions.

How to Use This Guide

- 1 Determine your client's intended use of the elevator.
- 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

- September 10, 2020 - Initial release
- October 7, 2020 - Rephrased the vernacular throughout guide, amended applicable codes on page 3, updated table of contents on page 4, modified specifications on page 5, included additional safety features and options on page 6, removed safety notes about inapplicable codes (previously page 7), corrected voltages on pages 7 through 9, added provisions by others details on page 8, converted units of measurement on page 10, revised Figure 12 drawing on page 23, replaced Figures 14 and 15 with updated values on pages 25 and 26, and exchanged Figure 16 with updated dimensions and photos on page 27
- October 14, 2020 - Updated table of contents on page 4, revised specifications on page 5, removed electrical requirements about inapplicable codes (previously page 7), and combined figures 14 and 15 on page 24
- July 13, 2021 - Updated load capacity in specifications page 5, and data sheet on page 24
- January 25, 2022 - Added noise level to specifications on page 5
- September 29, 2022 - Updated specifications on pages 5, 7 and 8, updated drawings on pages 11-20, updated measurements and images on page 25.
- November 25, 2022 - updated specifications on page 9
- December 15, 2022 - removed glass option for Vuelift Mini
- December 23, 2022 - Updated specifications on page 24
- February 28, 2023 - Revised specifications on page 5
- March 24, 2023 - Revised drawings on pages 11-12, revised suspension specification on page 5
- April 20, 2023 - Revised parts number

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Specifications

Specification	Specification Data
Load capacity	250 kg
Maximum travel	16.76 m
Travel speed	0.15 m/s
Noise level (for typical installation)	58 - 60 dB
Daily cycle	Normal: 40 Heavy: 80 Excessive: 150 Maximum starts in 1 hour on standard installation: 20 NOTE: Please consult your Sales Representative if there's a chance you may exceed these amounts.
Maximum levels serviced	6
Minimum overhead	2.44 m
Cab	Cab walls: Full clear acrylic Cab interior height: 1.97 m Cab weight (acrylic models): 250 kg Cab floor area: 0.76 sq m
Floor by others (in cab)	12.7 mm maximum
Footprint	1.26 m diameter
Acrylic diameter	1.08 m
Hoistway ring diameter	1.11 m
Power supply	Single-phase 220V, 50 Hz/9 A/16 A slow
Suspension	Type: White Zinc Coated Steel Rope Ø6x133 Construction: IWRC 7 x 19 RHRL Nominal strength: 7000 lb (3175 kg) Weight of ropes: 0.243 lb/ft (3.616 g/cm) Travel cable weight: 0.228 lb/ft (3.393 g/cm)
Drive train	Type: Winding drum Motor: 2.5 HP (1.85 kW) @ 50 Hz with integrated brake Motor control: Preprogrammed variable frequency drive
Cab Lighting	10A, 220V, single-phase, 50Hz
Pit/floor load	Refer to the section "Load Calculations"
Distance between 2 landings	2.36 m minimum
Pit depth	Minimum: 76 mm; 102 mm with buffer springs (required if habitable space below) Maximum: 305 mm
Temperature operating range (environment)	- 10°C to + 40°C NOTE: 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 Emergency stop switch Safety brakes Overspeed Manual lowering Emergency battery back-up for cab lighting and lowering Overload load cell Door closer
Options	Optional configurations: Type 2 cab Optional colors: <ul style="list-style-type: none"> • White (Texture White PX521W859) • Silver (Texture Silver PX521S343) • Custom powder-coat frame Note that Black is the standard color (Texture Black PX622N365) Savaria Link remote monitoring Pitless option with ramp Sabbath service Flood switch Buffer springs for habitable space below Buck boost transformer Up to 6 stops; balcony attachment or thru-floor configuration Cab shipped disassembled Landing door handle painted to match unit Top header ring in sheet metal painted to match unit 440V power input (consult factory for detailed specs) Braille buttons

Provisions By Others

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.

Finishing

The floor covering of the platform shall be slip resistant and contrast in colour and luminance with the landing surface.

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

Single-phase 220V, 50 HZ/9 A/16 A slow.

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

Have one in close proximity.

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.

Site Preparation

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

Finished Floors

- Finished floors be installed at all landing levels.

Power Supply

- Single-phase 220V, 50 Hz/9 A/16 A slow.

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

- Have one in close proximity.

Floor Built for Load

- Smooth level surface for installing the elevator, with floor load bearing capacity for the elevator plus rated load. An exact floor loading 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 76 mm must be provided (102 mm if buffer springs are used). For pit depths greater than 305 mm, 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

- 2.44 m minimum overhead distance from upper floor level to the underside of the finished ceiling for standard cab configuration.

Drywall and Painting

- All drywall and painting must be complete.

Load Calculations

- 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 102 mm x 102 mm plates at the bottom of each of the four columns.
- Vuelift Mini 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 Mini 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 90.7 kg.
- 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.

Pit Floor to Support Load of:

ACRYLIC:

$\text{Kg} = (\text{m of hoistway} * 55) + (\# \text{ of floors} * 81) + 730 \text{ dead load}$

Drawings

- Plan view (acrylic), type 1
- Plan view (acrylic), type 2
- Pit view (acrylic), type 1 or 2
- Base ring details (acrylic), type 1 or 2
- Thru floor view (acrylic), type 1 or 2
- Balcony view (acrylic), type 1 or 2
- Thru floor details (acrylic), type 1 or 2
- Balcony details (acrylic), type 1 or 2
- Pit cutout details (acrylic), type 1 or 2
- Elevation view (acrylic), type 1 or 2
- Machine room layout and wire routing (acrylic), type 1 or 2
- Wire routing from pit (acrylic), type 1 or 2
- Corner installation view (acrylic), type
- Datasheet (acrylic), type 1 or 2
- Controller box dimensions (acrylic)

Figure 1: Plan view (acrylic) - type 1

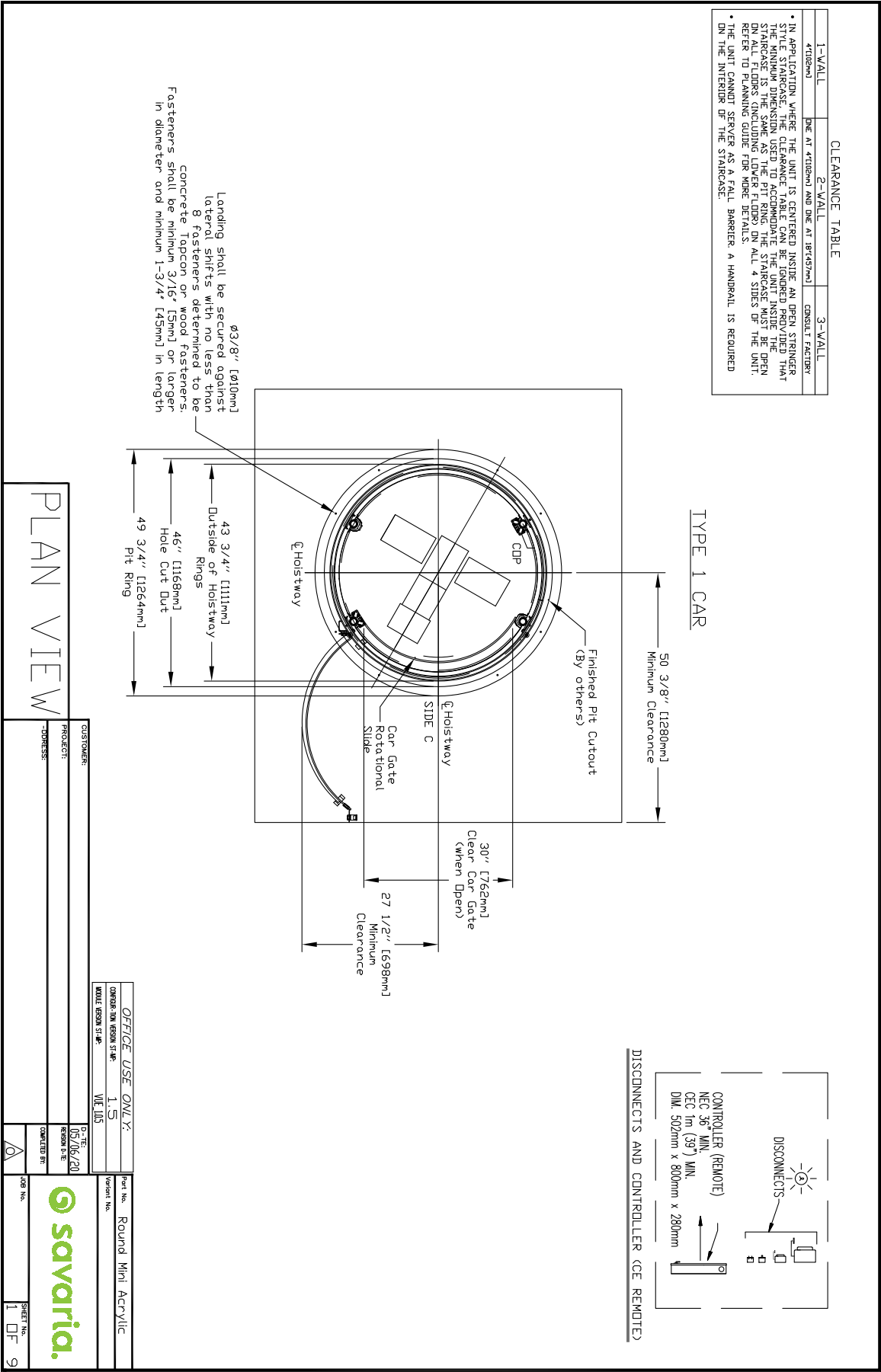


Figure 2: Plan view (acrylic) - type 2

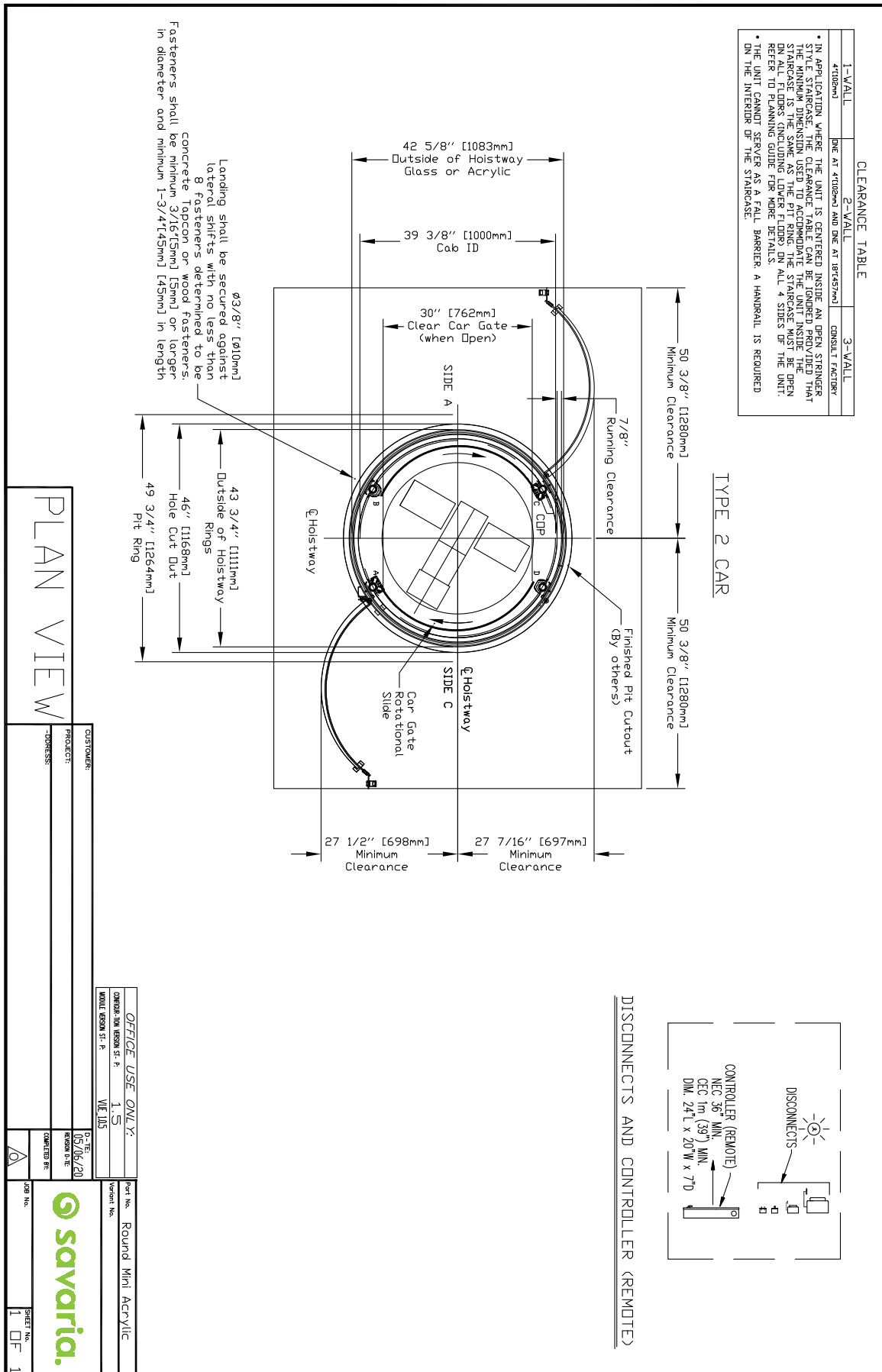
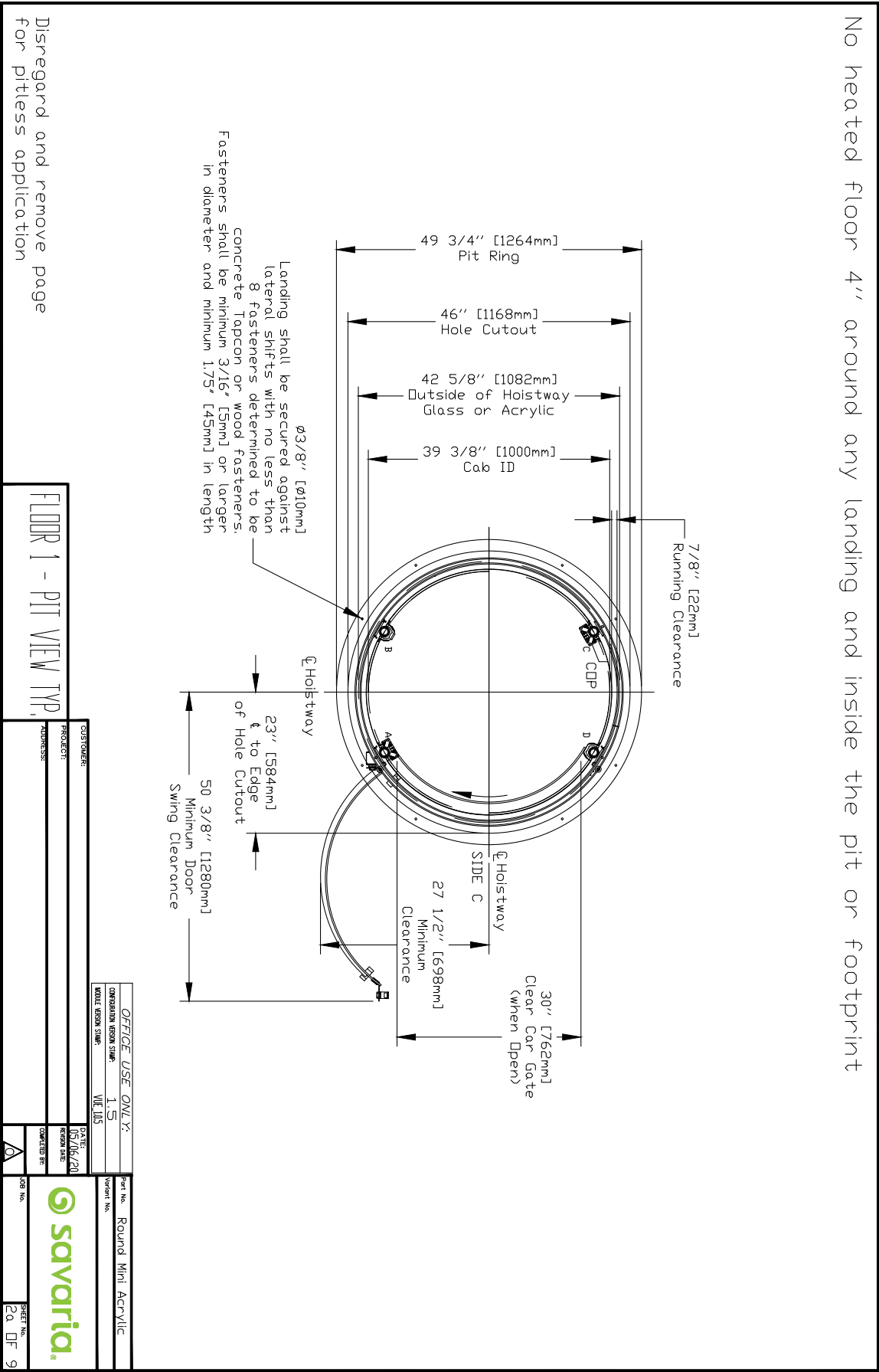


Figure 3: Pit view (acrylic) - type 1 or 2



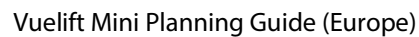
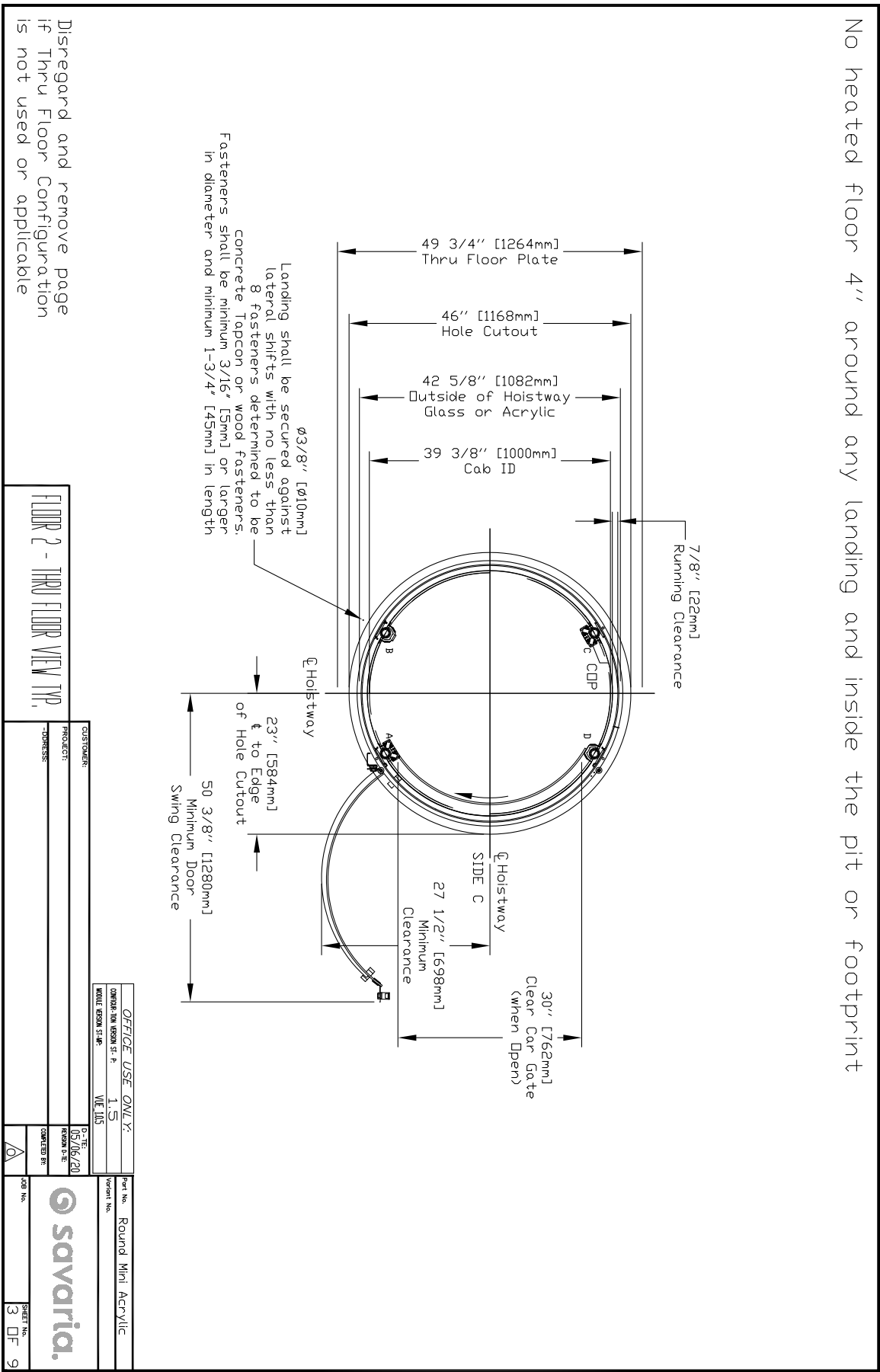


Figure 5: Thru floor view (acrylic) - type 1 or 2



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

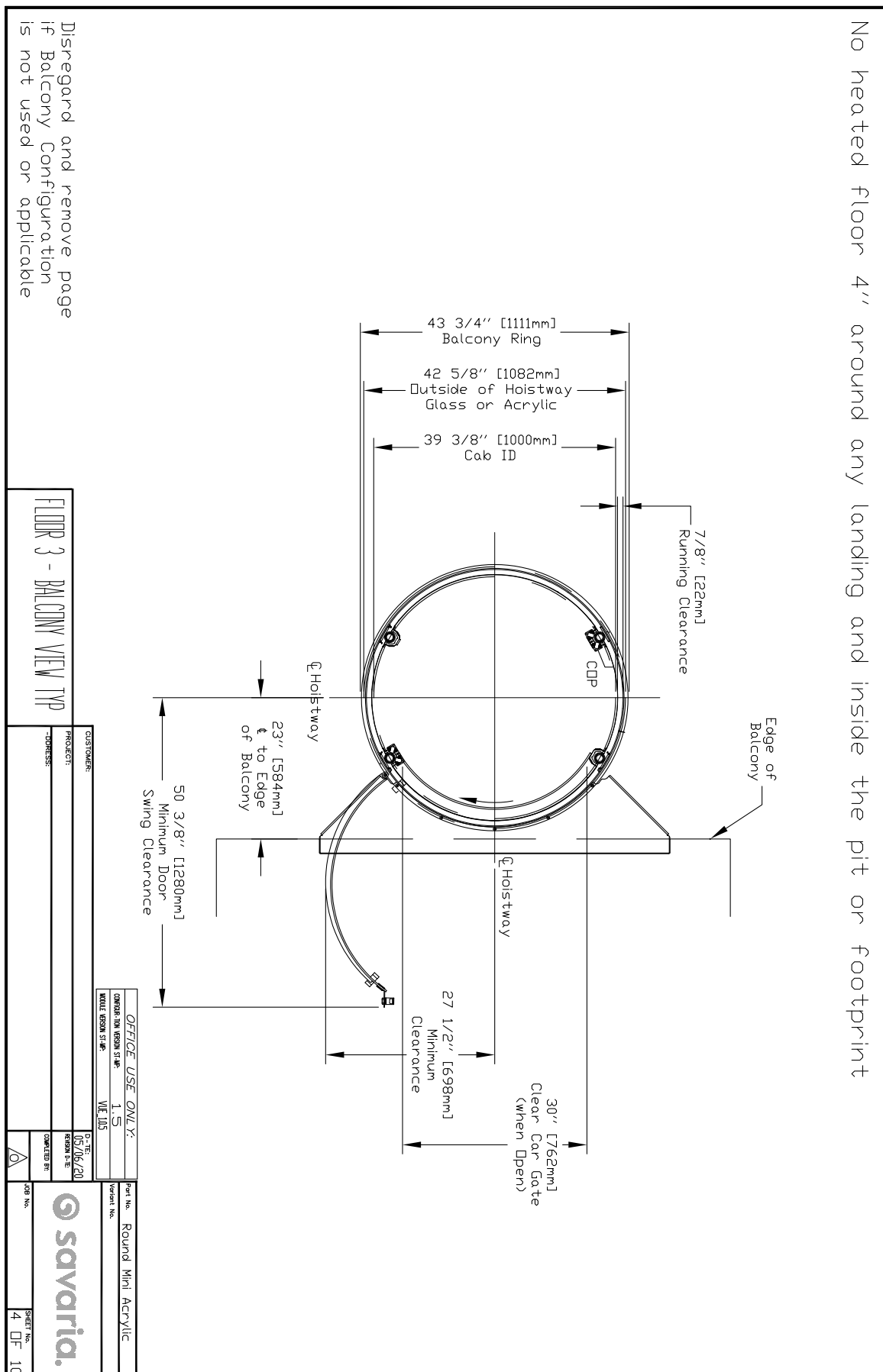


Figure 8: Balcony details (acrylic) - type 1 or 2

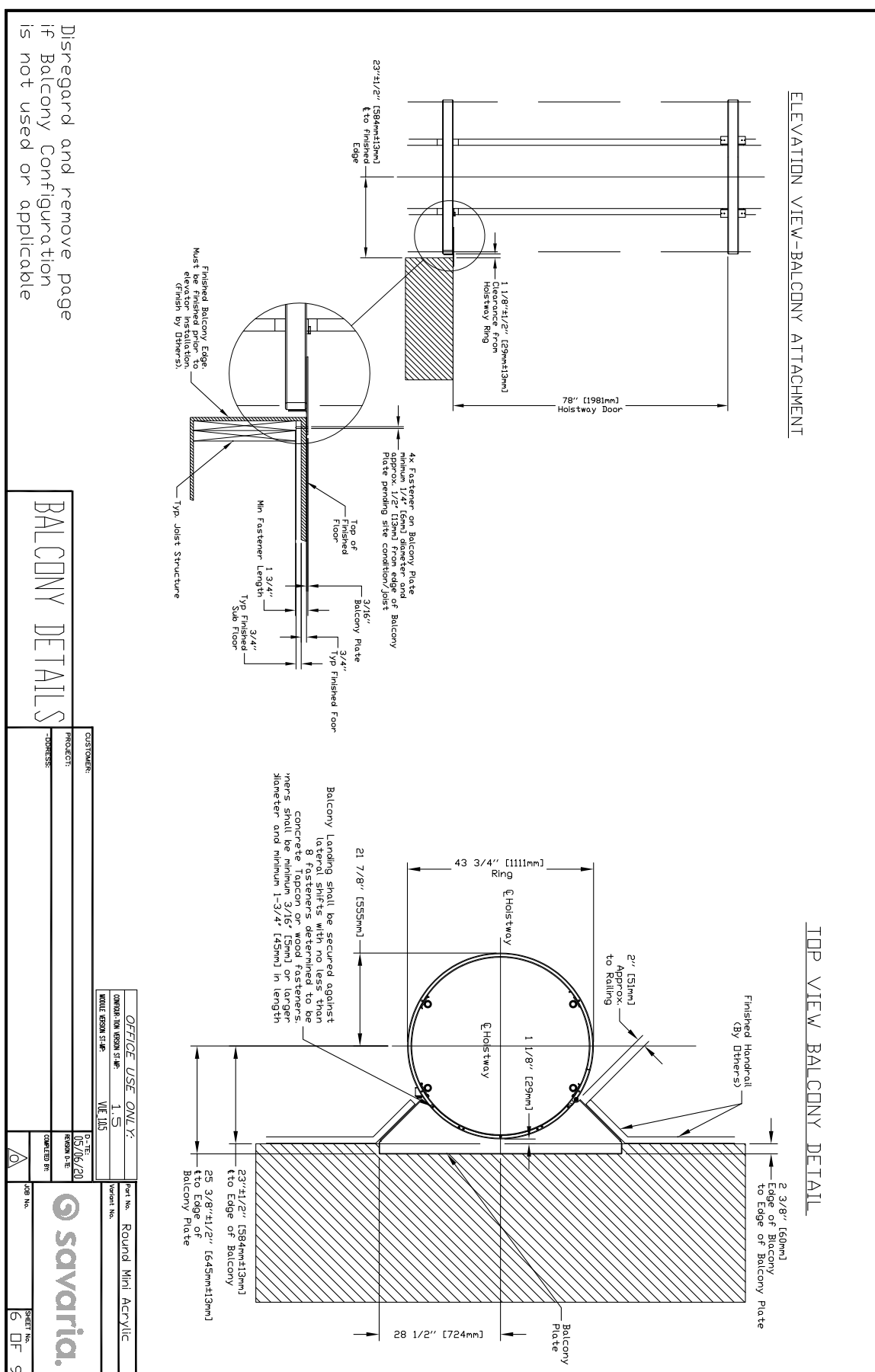


Figure 9: Pit cutout details (acrylic) - type 1 or 2

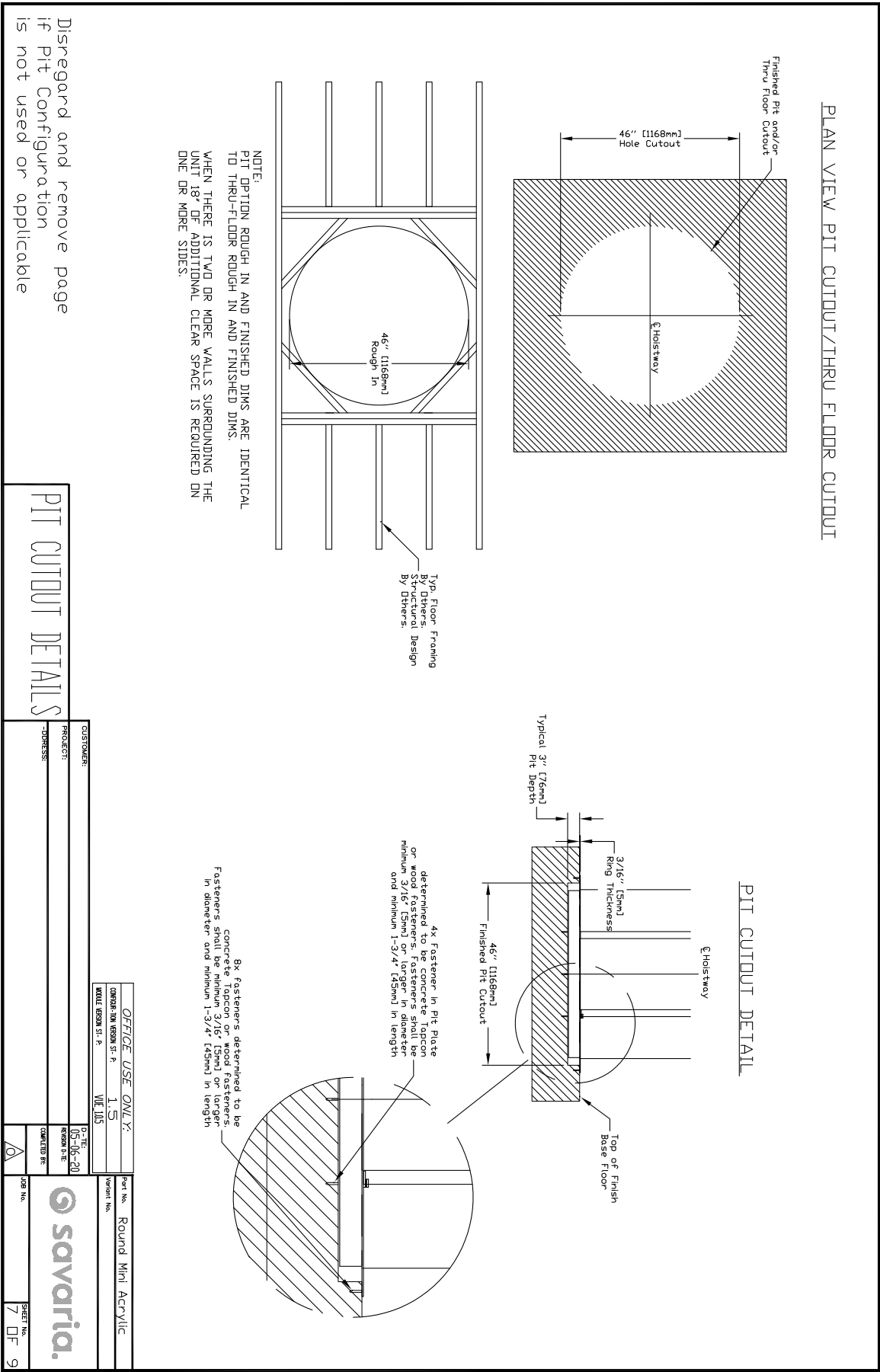


Figure 10: Elevation view (acrylic) - type 1 or 2

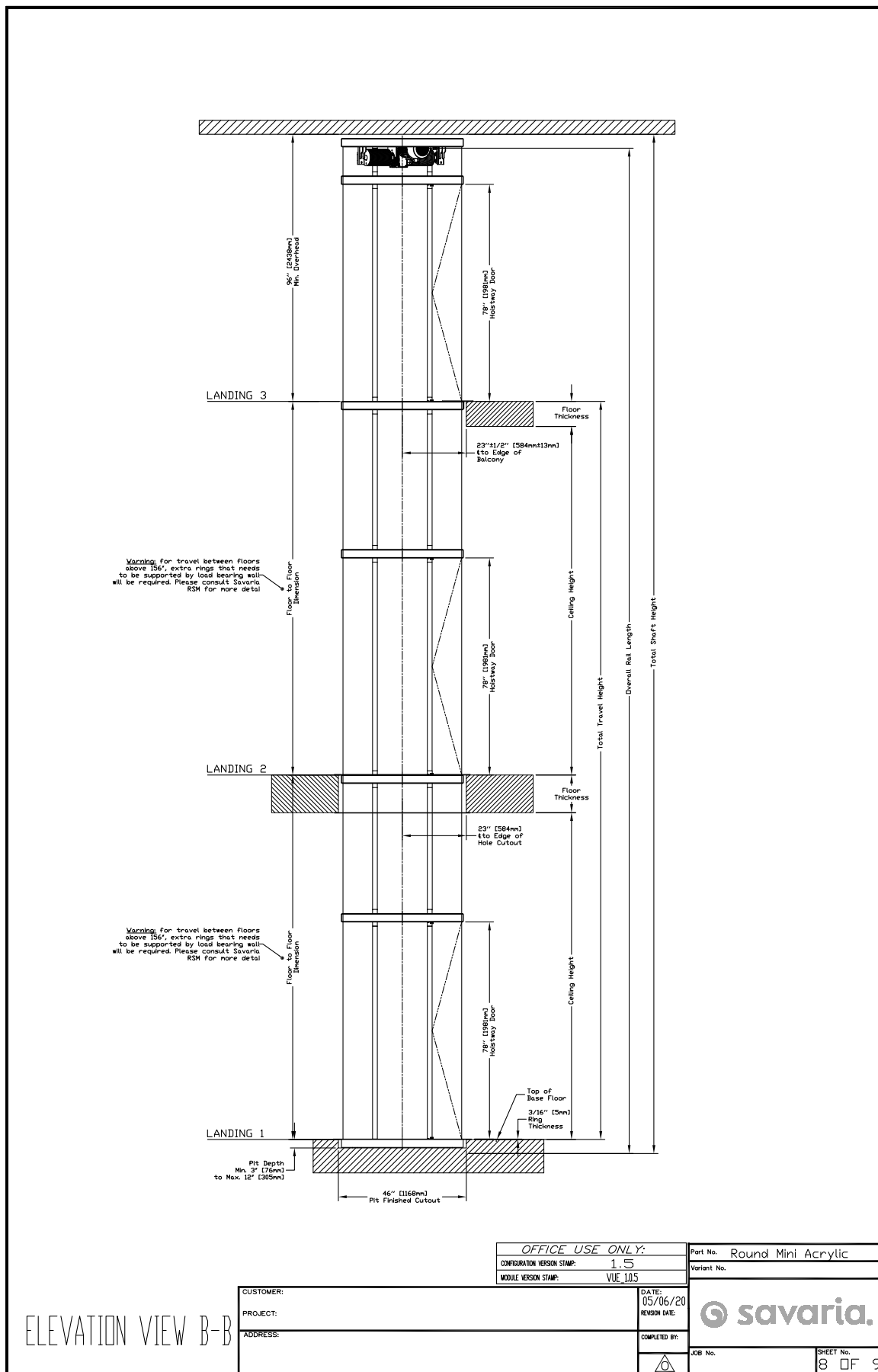


Figure 11: Corner installation view (acrylic) - type 1

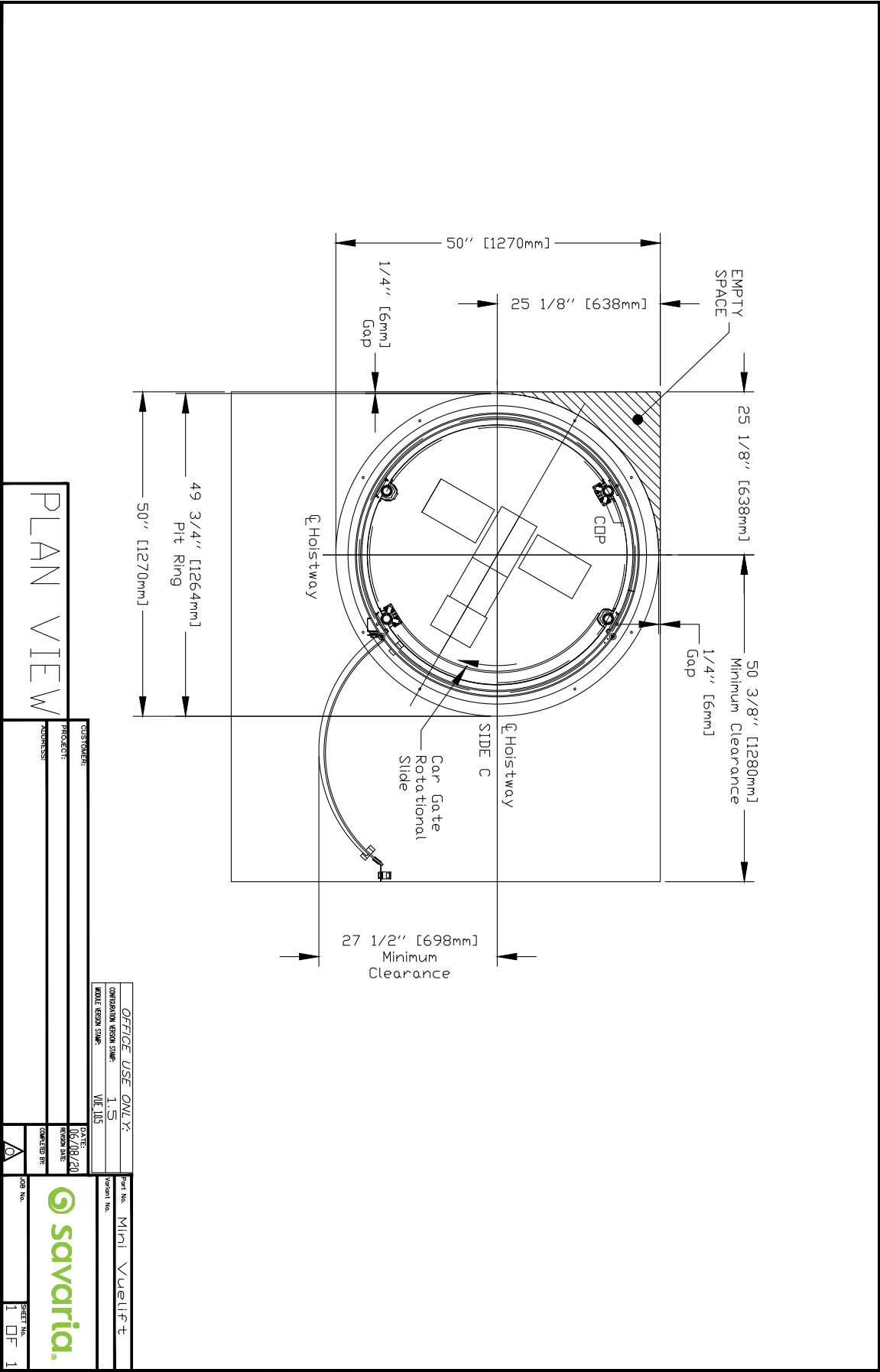
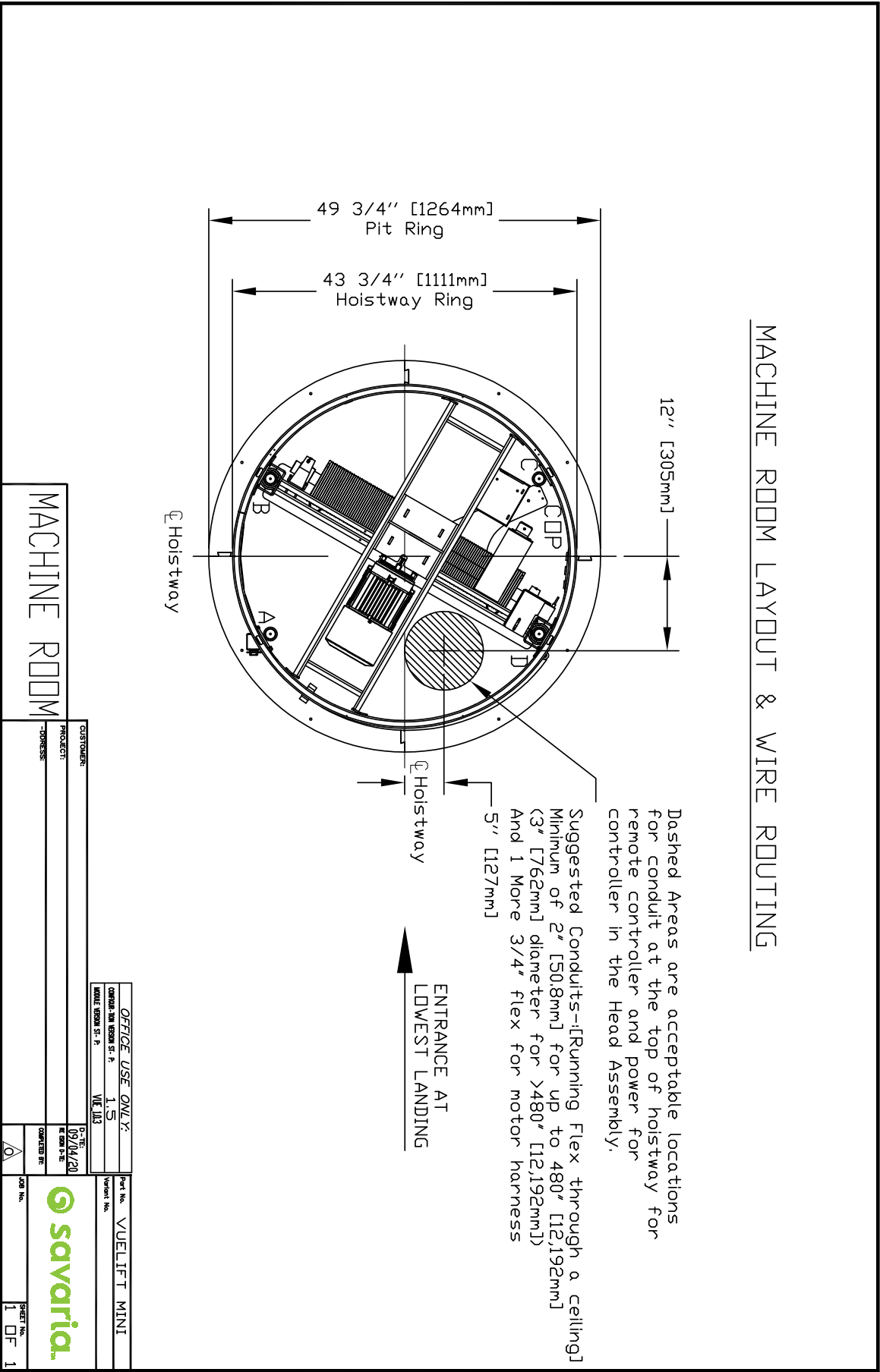


Figure 12: Machine room layout and wire routing (acrylic) - type 1 or 2



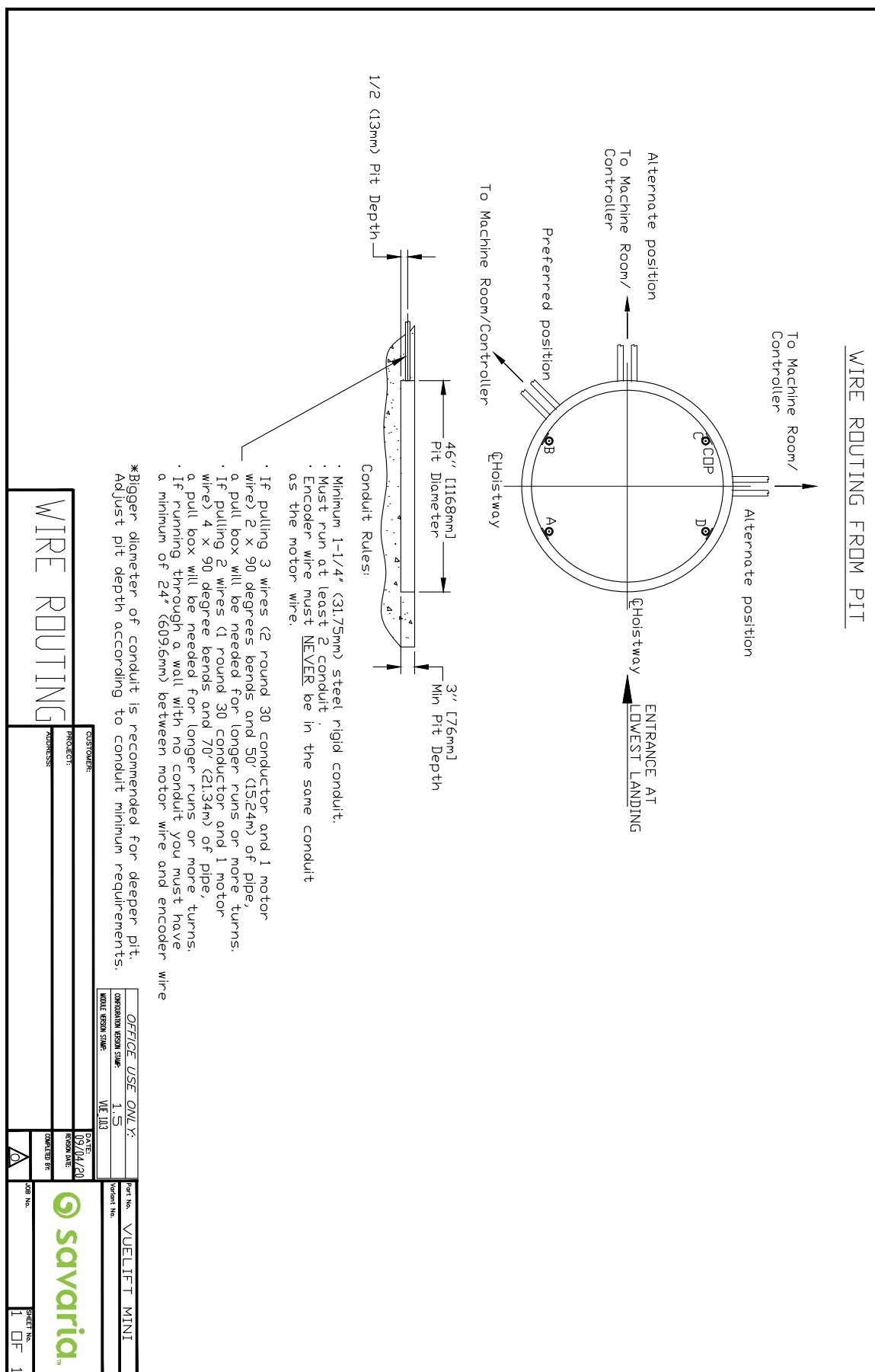


Figure 14: Datasheet (acrylic) - type 1 or 2

PROVISIONS BY OTHERS

GENERAL

CONNECTION SITE DIVER/AGENT TO PROVIDE ALL NECESSARY CARPENTRY AND ELECTRICAL WORK. ALL DIMENSIONS SHOULD BE IN FINISHED STATE PRIOR TO INSTALLATION OF UNIT.

DIMENSIONS CONTRACTOR/CUSTOMER TO VERIFY ALL CLEARANCE DIMENSIONS PRIOR TO UNIT DELIVERY.

STRUCTURAL

CONTRACTOR/ENGINEER TO ASSURE THAT BUILDING DATA SPECIFY LOADS AND STRUCTURAL SUPPORTS FOR THE UNIT. ALL LOADS ON THIS DRAWING FOR PIT/FLOOR LOADS IMPOSED BY THE EQUIPMENT.

ELECTRICAL

OWNER SUPPLY (SEE SPECIFICATIONS BELOW) LOCKABLE FUSED DISCONNECTS TO BE PROVIDED BY CONTRACTOR/CUSTOMER. ALL ELECTRICAL WORK TO BE INSTALLED PRIOR TO INSTALLATION.

LOCATION PRIOR TO INSTALLATION

ELECTRICAL GFCI OUTLET IN HOISTWAY PIT IF REQUIRED.

PERMANENT POWER BEFORE INSTALLATION CAN BEGIN. PERMANENT POWER MUST BE SUPPLIED.

HANDRAILS: ALL HANDRAILS REQUIRE HANDRAILS TO BE INSTALLED PER LOCAL CODES AFTER INSTALLATION IS COMPLETED. HANDRAILS AND INSTALLATION TO BE PROVIDED BY CONTRACTOR/CUSTOMER. SAVARIA AND/OR LOCAL INSTALLER ARE NOT RESPONSIBLE FOR HANDRAIL INSTALLATION OR MATERIALS.

POWER SUPPLY SPECIFICATIONS	DISCONNECT	TIME DELAY	VOLTS	PHASE	AMPERAGE
MOTOR & EQUIP	30 AMPS	60 AMPS	230	SINGLE	14 AMPS
CAB LIGHTS	15 AMPS	15 AMPS	115	SINGLE	-
PIT REQUIRED	15 AMPS	15 AMPS	115	SINGLE	-

TELEPHONE CIRCUIT SHALL BE BROUGHT TO A LOCATION NEXT TO THE CONTROLLER AND BE AVAILABLE TO CONNECT AND TEST UPON ELEVATOR INSTALLATION.

OPTIONS:

1. NO LINK WITH ANTENNA. ENSURE THAT YOU HAVE A WIRELESS SIGNAL WITH INTERNET CAPABILITY IN THE VICINITY OF UNITS CONTROLLER.

2. SAVARIA LINK WITH ETHERNET. ENSURE THAT YOU HAVE AN ETHERNET CONNECTION WITH INTERNET CAPABILITY IN THE VICINITY OF UNITS CONTROLLER.

3. NO SAVARIA LINK. NO SPECIAL REQUIREMENT

GENERAL

CLASSIFICATION: Residential Building

APPLIED CODE: ASNE 171-2013 SECT. 5.3

MODEL: Round Mini Acrylic - ANSI 2971

NUMBER OF FLOORS: 6

MODEL: Round Mini Acrylic

CAPACITY: 500lbs (227kg)

NOMINAL SPEED: 30 fpm (0.15 m/s) UP AND DOWN

TOTAL TRAVEL: 39' 8.25" f42, 1m, 0.75 m2

CAB INT. HEIGHT: 78" (1.98 m)

CAB WEIGHT: 550 lb (250 kg)

PIT DEPTH (OPTION): 60 Hz Single Phase 240 volt (60Hz)

CAB DOOR: Manual Rotating Sliding Door

POWER SUPPLY: 6.5W/171 (Section 2.2.4.3 & 117.5.1)

SHEET TITLE: Mfg. Savaria P/N180240

SUSPENSION:

TYPE: WHITE ZINC COATED STEEL ROPE 06x133 (7x19)

CONSTRUCTION: 1WRC 7 x 19 RHRL

NOMINAL STRENGTH: 7,000 lbs (3175 kg)

V.A. OF ROPES: 0.243 lbs/ft (3.616 g/cm)

TRAVEL CABLE WTH: 0.228 lbs/ft (3.393 g/cm)

DRIVE TRAIN:

TYPE: Winding Drum

MOTOR: 2.2 HP (1.63 kW)

CONSTRUCTION: Gearbox

MOTOR CONTROL: Programmable Variable Freq. Drive

DOOR INTERLOCKS: Xtronics E10983-1901 Certified in compliance with

PIT/FLOOR LOAD: ASNE A17.1 sections 212.4.3 (4' of Hoistwayx37') + (4' of Floorx381) + 730 Dead Load (lbs)

Based on this configuration:

LOWER FLOOR DEAD LOAD: MID FLOOR MAX. LATERAL LOAD 250 lbs (113 kg)

LOWER FLOOR IMPACT LOAD 2795 lbs (1268 kg)

OPTIONS:

* SEE ELEVATION VIEW FOR ADDITIONAL HEADER RING TO SUPPORT EXTRA LONG FLOOR TO FLOOR

BUCK BOOSTER: Required if input power supply is not 240 volt AC

BUFFER SPRING: If applicable for habitable space below. Min. pit 4'

CAR TOP INSPECTION:

COLOR: Distance between Head Frame and Control Room

CONTROLLER CABLE: External to Hoistway

CONTROLLER LOCATION: Black Acrylic (Standard)

HEADER RING FINISH: Factory Cut Glass/Acrylic Cut on site or Factory cut

FLOOD SWITCH: Manual or Hydraulics Landing Doors

FLOOD DOOR CLOSER: Stainless Steel (Standard)

LANDING DOOR HANDLE: Ship Cab Assembled (STD)

SHIP CAB ASSEMBLED: Ship Cab Assembled (STD)

ENTRANCE SIDE LEGEND

DATA SHEET

CUSTOMER: PROJECT: ADDRESS:

DATE: 03/02/21

COMPLETED BY: A

DESIGN NO. 1.5

MODEL VERSION: VUE 115

Part No. Round Mini Acrylic

Variant No.

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FIRST DOOR BY LANDING CHART

	LANDING 1	LANDING 2	LANDING 3
DOOR TYPE	Side C	Side C	Side C
ENTRANCE SIDE	LH or RH SWING	LH or RH SWING	LH or RH SWING
DOOR TYPE	X Lock	X Lock	X Lock
LOCK TYPE	NO	NO	NO
HALF CALL KEY SWITCH	NO	NO	NO
FLOOR MARKING	1	2	3
LANDING CONFIGURATION	Pit or Ramp	Triax-Floor-Shown	Balcony Shown

OFFICE USE ONLY:

COMPARISON DESIGN TIME: 1.5

MODEL VERSION: VUE 115

Part No. Round Mini Acrylic

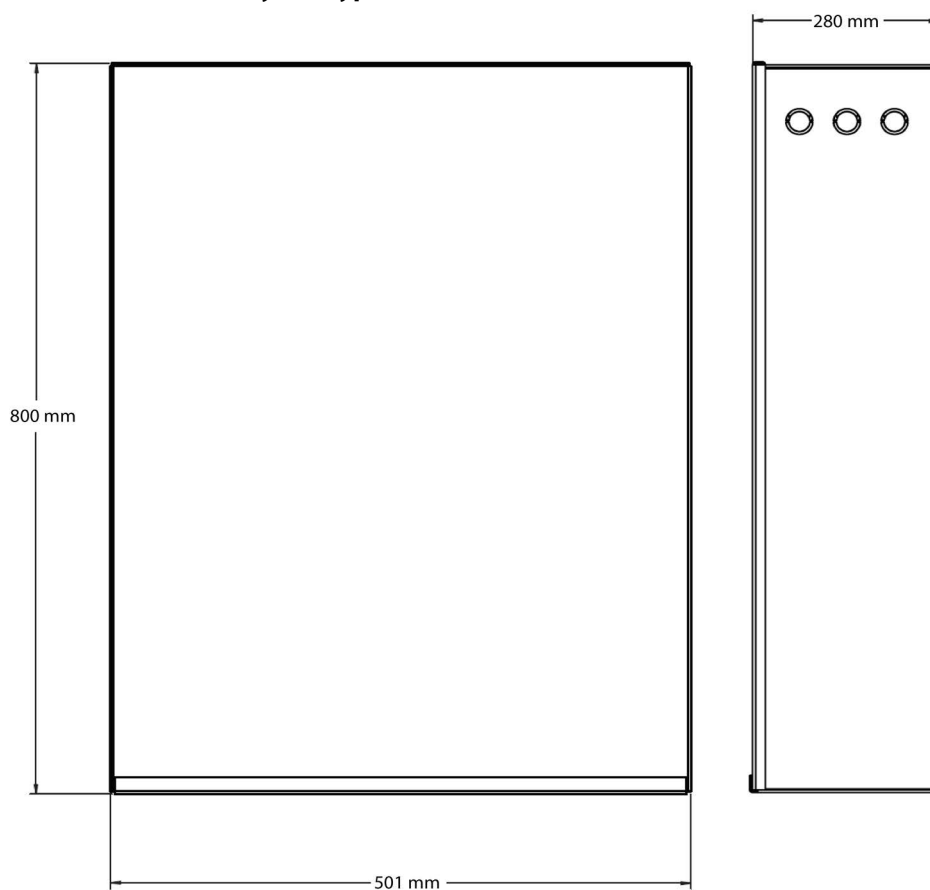
Variant No.

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Vuelift Mini Planning Guide (Europe)

Part No. 001255-CE, 20-m04-2023

Figure 15: Controller box dimensions (acrylic) - type 1 or 2



NOTE: A remote controller cannot be more than 100 ft (30.48 m) from the top of the unit for the cable to reach.

Vuelift Mini

Residential Elevator

PLANNING GUIDE

(Europe)

Part No. 001255-CE
Rev. 20-m04-2023

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