

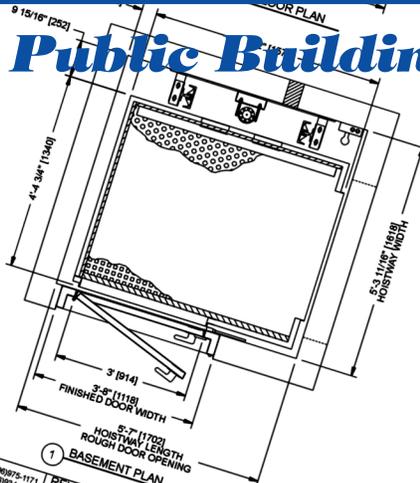
**ACCESS
2000**
Elevator & Lift Inc.



Revision 1.0

C-1000

Public Building Wheelchair Elevator



①	PURCHASE CEILING
②	SEALERS FOR SLIP RUBBER FLOORING (BLACK)
③	2 DOUBLE FLUORESCENT LIGHTS
④	CALL OPERATOR STATION
⑤	TELEPHONE CABINET (OPTIONAL) (TYPE 1) (NO. 1)
⑥	SOLID ONE-PANEL
⑦	CALL STATION LAMP (ON BUILT WOOD FORMWORK)
⑧	3-WAY OIL HYDRAULIC CONTROL (SEAMLESS STEEL)
⑨	PROGRAMMABLE LOGIC CONTROLLER
⑩	EMERGENCY POWER BACKUP UNIT
⑪	EMERGENCY POWER BACKUP UNIT
⑫	EMERGENCY POWER BACKUP UNIT
⑬	EMERGENCY POWER BACKUP UNIT
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REV DATE
DESC: 4X5 F-S 3 STOP - PLAN VIEWS
JOB:
LOC:
DWG:

SCALE:
DATE:

**DESIGN AND
PLANNING GUIDE**

CAD FILES
CD ROM
Available

Table of Contents

<i>Introduction</i>	3
<i>System Overview</i>	4
<i>Drive System</i>	6
<i>Hydraulic Drive & Controls</i>	6
<i>Direct Holeless Hydraulic</i>	7
<i>Direct Semi-Holeless Hydraulic</i>	8
<i>1:2 Roped Hydraulic</i>	9
<i>Enclosure</i>	10
<i>Control System</i>	11
<i>Call Stations</i>	11
<i>Car Station</i>	11
<i>Landing Entrances</i>	12
<i>Doors, Interlocks, Power Operators</i>	12
<i>Hoistway Construction Methods</i>	13
<i>Common Options</i>	14
<i>Custom Cab Interior</i>	14
<i>Custom Platform Sizing</i>	14
<i>Telephone</i>	14
<i>Entry/Exit Configurations</i>	15
<i>Design Specifications</i>	16



Introduction

Access 2000 is a company that provides handicapped accessibility to groups and individuals who are in need of products to make everyday life unconstrained and people more self-sufficient. By contacting Access 2000 you will receive qualified and professional advice for all of your accessibility questions.

Access 2000 was established in the fall of 1993 when Glen Ogilvy, with 10 years of experience in the handicapped accessibility industry, saw a large gap in this market. The challenge was to meet the market's demand for an affordable, safe and above all dependable wheelchair accessible elevator. With this vision, Access 2000 started manufacturing a commercial 1000 lb capacity wheelchair elevator in their newly expanded plant located in Saskatoon, Saskatchewan.

We have invested a great deal of time, money, and pride in order to provide the best available products in North America. Due to our dedicated staff and our commitment to quality, the Access 2000 team is quickly establishing itself as a leading supplier of wheelchair elevators.

We take pride in our high standards of service, quality, safety, and our ability to offer our customers the best dollar value in the solution to their needs.

Should you have any questions in regards to Access 2000 and handicapped accessibility, please feel free to contact our office in Saskatoon to speak with any one of our representatives.

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System Overview

The Access 2000 C-1000 Public Building Wheelchair Elevator is a fully enclosed vertical elevator. The design stems from our vision of a reliable, safe, easy to use, and above all high quality means of access in any multi-level public building. This is ultimately the result of a large effort to not only accommodate a market's demand, but to produce a product that will live up to anyone's individual expectations.

A solid, comfortable ride is attributed to the welded structural steel platform and sling assembly. The car is guided in the hoistway with 8 lb elevator T-rails mounted to one bearing wall on steel rail brackets.

A single stage hydraulic ram coupled with an industry leading 2-speed weight compensating hydraulic valve provides smooth and accurate leveling every time. In cases of low overhead, or increased travel, a semi-holeless or 1:2 roped hydraulic system is utilized.

The control system consists of our own CSA/UL approved programmable logic controller, auto-transfer emergency back-up power, automatic on/off cab lighting, hall call stations and car operating station.

Our standard cab interior is constructed with a top quality laminated panel. Consult the factory for information regarding standard and optional panel finishes. All trim, reveals, and headers are clear anodized extruded aluminum. Standard flooring is a durable non-slip product on top of a welded structural steel & 3/4" plywood sub-platform. The lighting for the cab interior is provided from two 4ft flourescent fixtures mounted car-top above our "sunshine ceiling" system.

The standard landing entrances for the C-1000 are 36"x80" flush style 1.5 hour fire rated swing-type doors. Each door comes with a GAL interlock and a 2 speed closer (a power door operator is optional). The standard hardware provided is either a lever handle latchset with a flush cup lever or a "D" handle with a push plate. Doors and frames are supplied with a paintable zinc wipe coat finish.

The hoistway can be of wood or masonry construction. We will provide several sets of construction drawings detailing the requirements of the hoistway. An 8" to 12" pit (or ramping if a pit is not an option) will be required for the elevator equipment to level into the bottom landing.

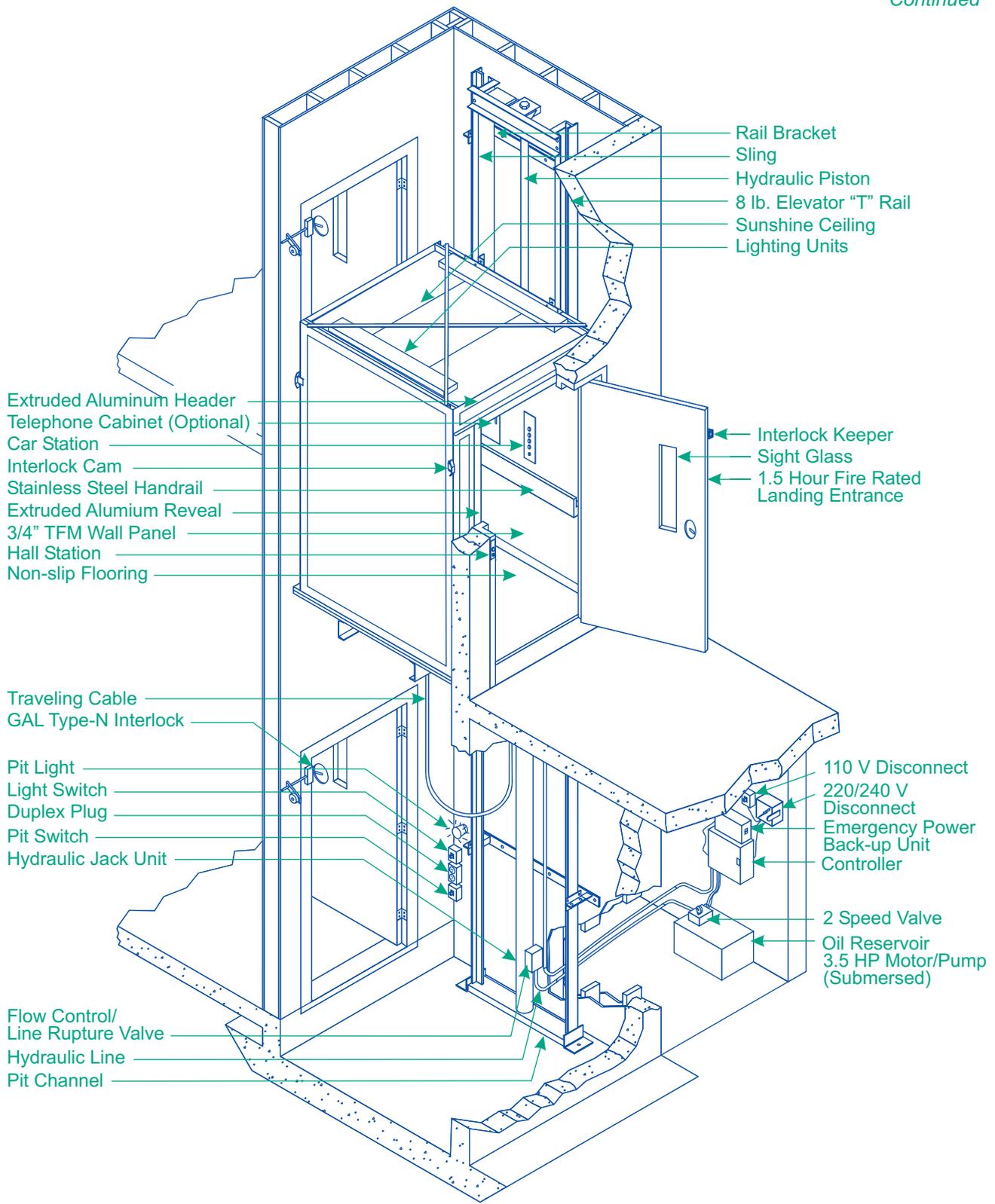
A small remote machine room is required for the controls and hydraulic pump unit to be located. This can typically be a small closet, in a crawlspace, under a staircase, etc.

Maximum travel for the C-1000 is 7m or approximately 23 ft (or as local codes permit). Capacity is a standard 1000 lbs (or as local codes permit). The C-1000 will accommodate from 2 to 5 stops or landings. A variety of standard platform configurations, as well as our capabilities as a custom manufacturer allow us to find a solution to almost any situation.

Many of the details for the above mentioned items are expanded upon later in this guide.

System Overview

Continued



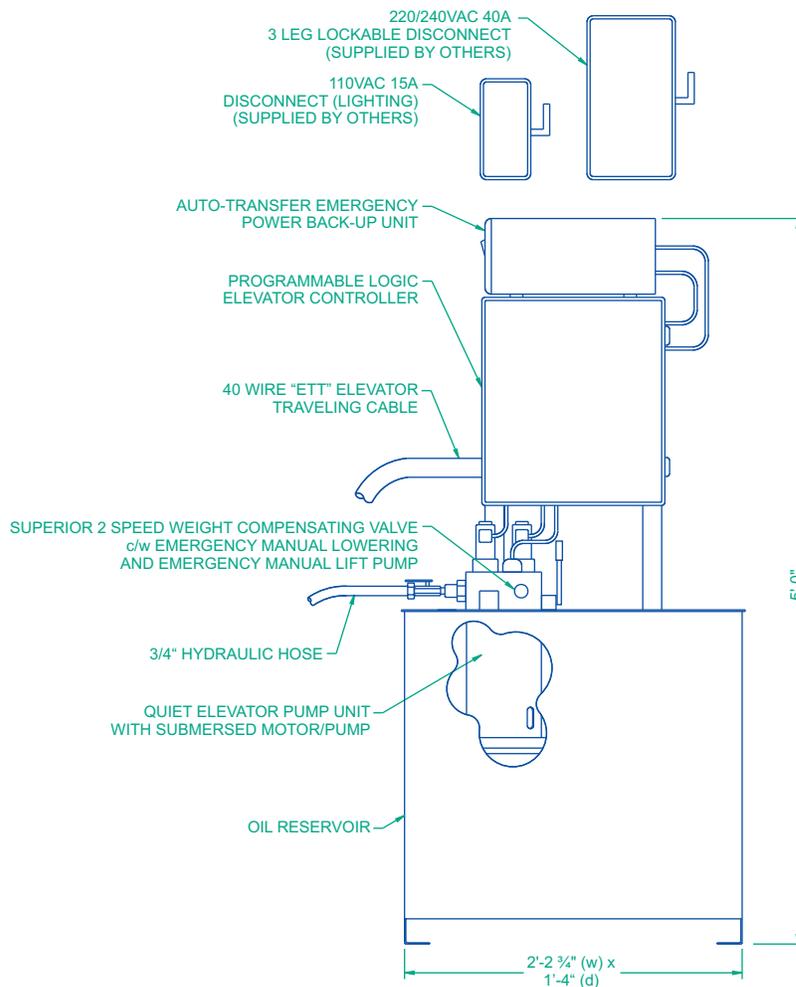
Drive System

Hydraulic Drive & Controls

The C-1000 is driven by an industry leading 2 speed, weight compensating hydraulic pump unit. The main power supply for the 3.5 HP submersed motor is 220/240VAC 1 phase on a 40A 3 leg disconnect (supplied by others). As well, a dedicated 110-120VAC 15A disconnect is required for the lighting circuit (supplied by others).

The auto-transfer emergency power back-up unit allows the user to continue operation in the down direction in the event of a power failure. This can be accomplished from the car station or hall stations. As well, regular cab lighting is maintained.

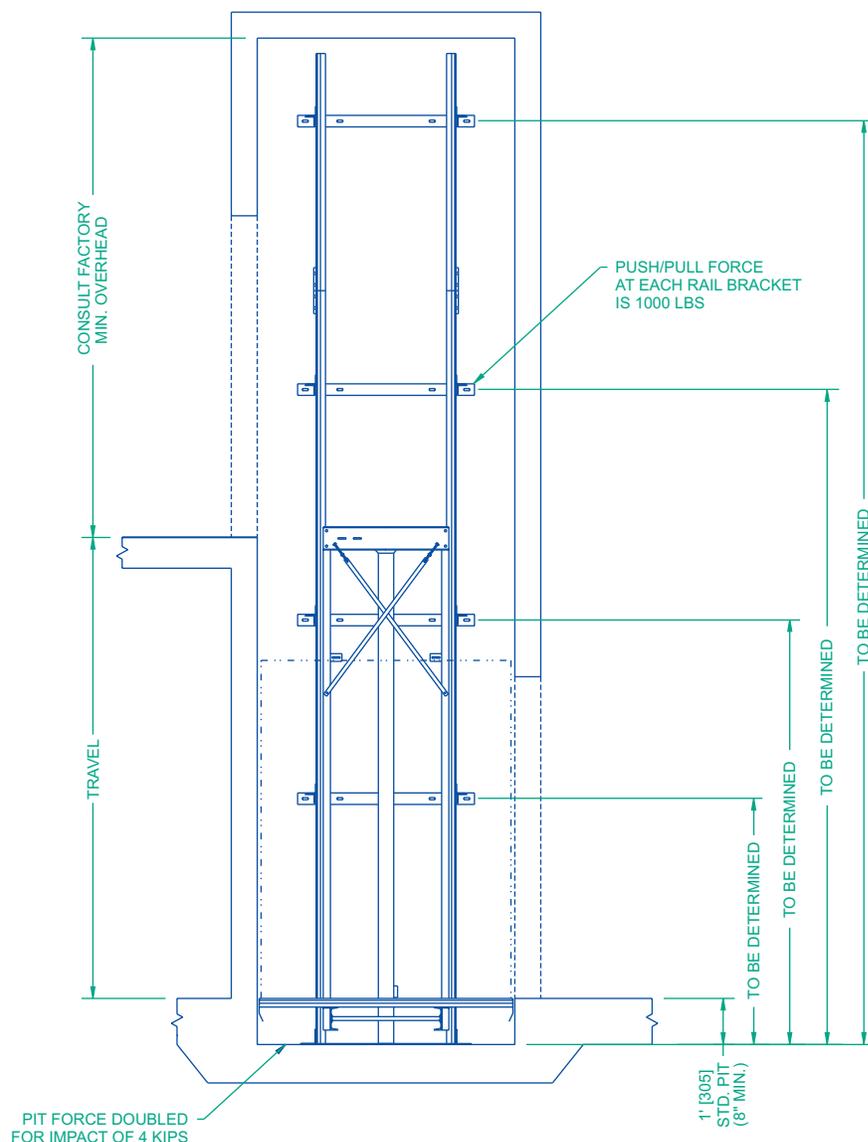
The complete control system operates under 110VAC/24VDC. All components are stock items with any major electrical supply dealer, therefore spare parts are readily available if necessary.



Direct Holeless Hydraulic

The C-1000 direct holeless hydraulic configuration offers a superior installation. With no cables involved, this direct drive eliminates mechanical and electrical slack cable safeties, as well as offers an exceptionally smooth and solid ride.

Every jack is custom manufactured to suit each particular application. Therefore, the factory must be consulted in order to determine whether a holeless drive can or cannot be implemented.



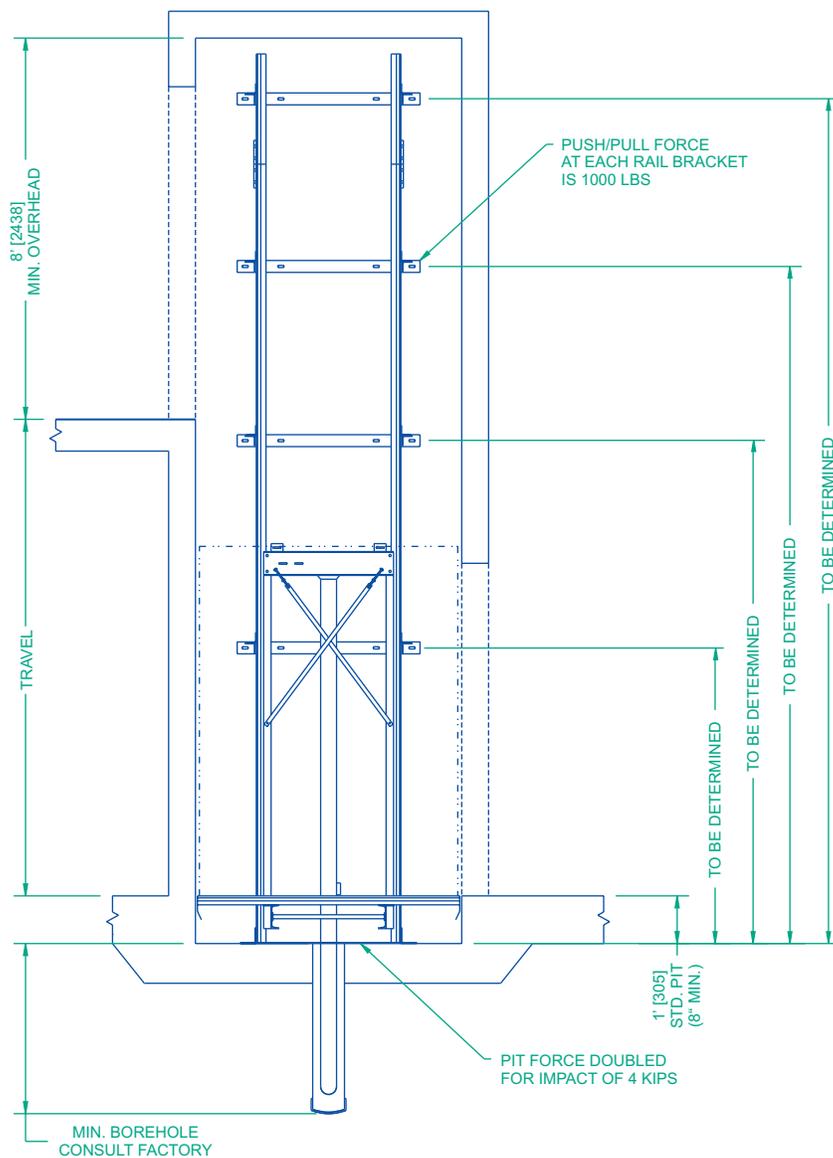
Drive System

Continued

Direct Semi-Holeless Hydraulic

In cases where overhead is slightly limited compared to the travel, a borehole type jack can be implemented. Just like the direct holeless configuration no cables, mechanical or electrical slack cable safeties are needed.

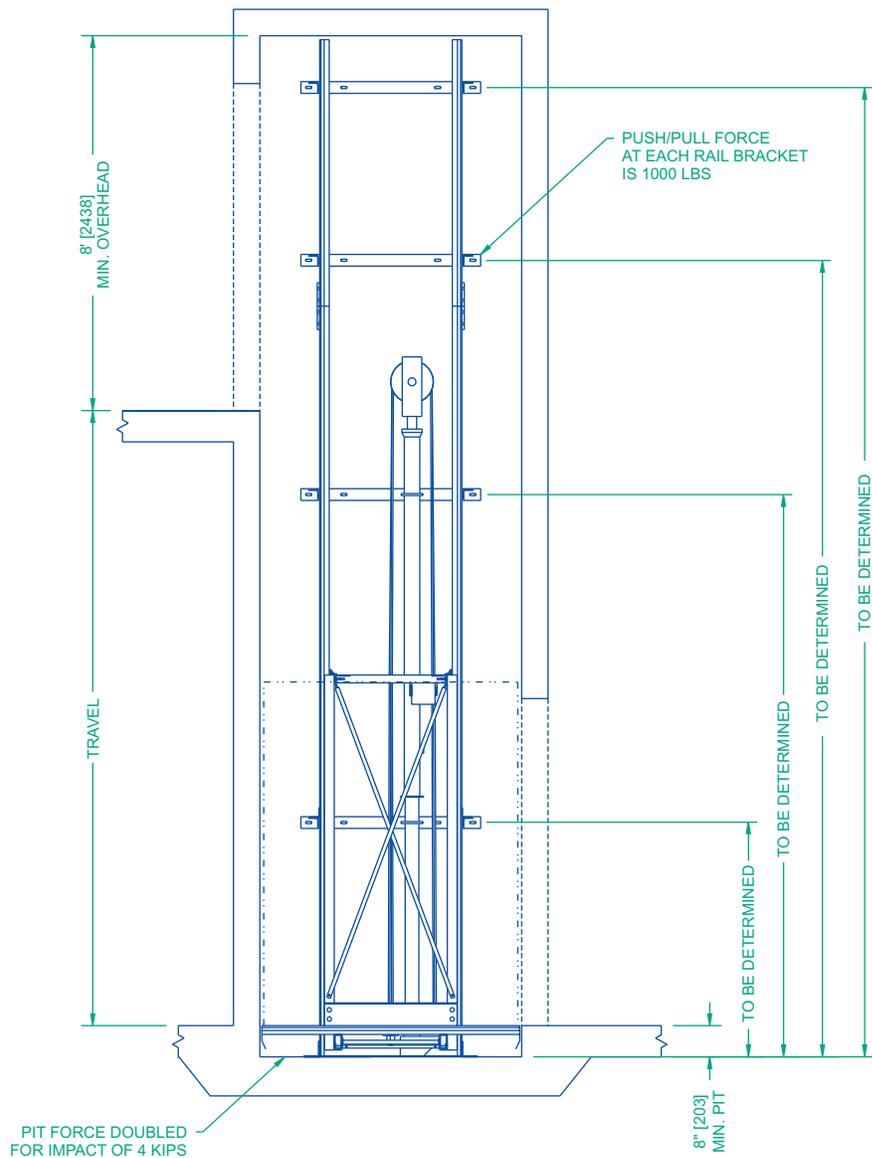
Like the direct holeless hydraulic, every jack is custom manufactured to suit each particular application. Therefore, the factory must be consulted in order to determine whether a borehole drive is suitable.



1:2 Roped Hydraulic

With two 3/8" wire ropes suspended over the hydraulic cylinder on a sheave, a maximum travel can be achieved with a minimum overhead of 8' [2438]. Mechanical and electrical slack cable safeties guard against any situation where one of the drive cables may go slack.

Consult the factory to determine whether a 1:2 roped hydraulic drive meets the needs of your particular situation.

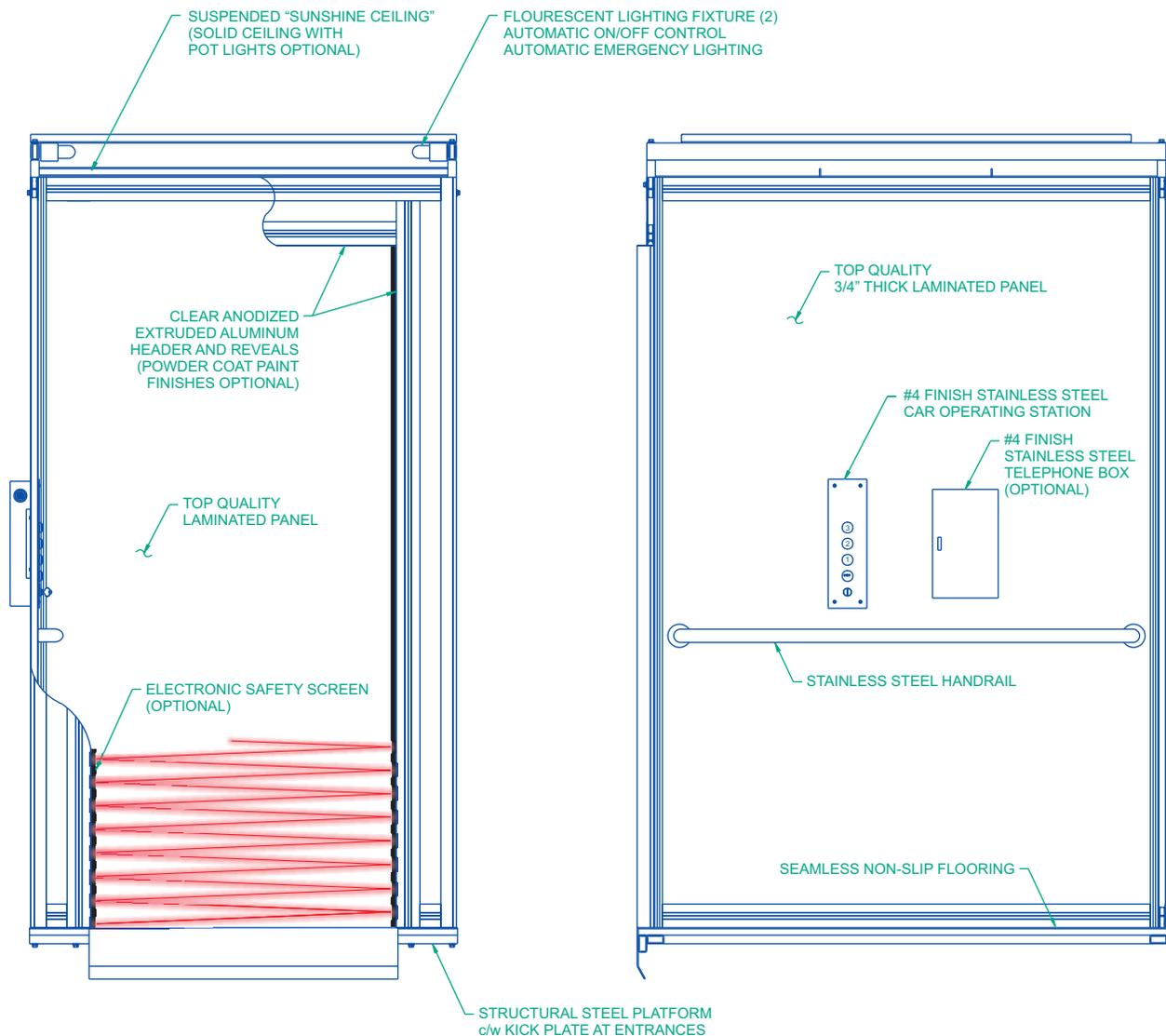


Enclosure

The enclosure of the C-1000 is constructed using top quality laminated panels that are mounted into a clear anodized extruded aluminum framework (powder coat finishes optional).

A solid, comfortable ride is attributed to the structural steel/plywood platform. Our standard non-slip flooring adds a very durable and functional finish to the standard platform. However, any type of flooring (including carpet, linoleum, hardwood or tile) can be used to suit a particular design specification.

The "sunshine ceiling" is constructed of white nylon panels with white T-bar ceiling moulding. A "solid ceiling" with pot lights is optional.

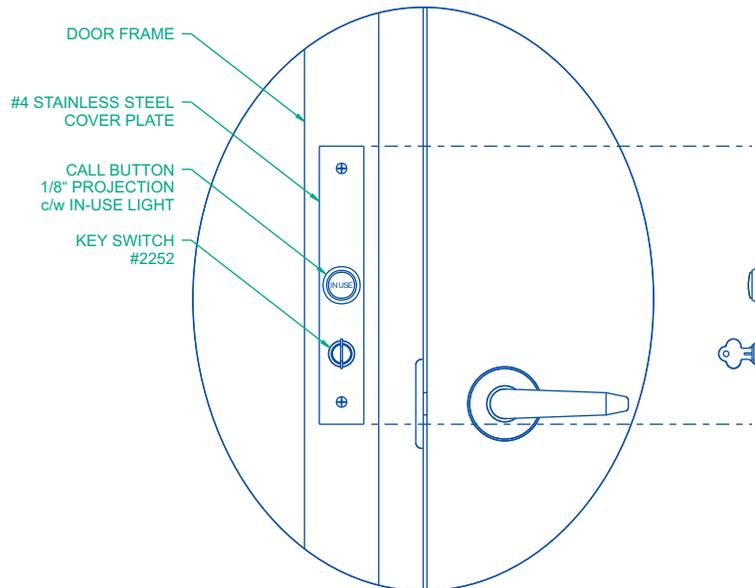


4'X5' Front Only Cab Shown

Call Stations

Each landing entrance has a call station incorporated into the door frame. If local codes require that the elevator be key restricted, the user must use the standard #2252 key to activate the button. Once the button is pressed, the controller sends the elevator to that respective floor. If the elevator is in use, the call station is inoperable.

The standard cover plate is #4 stainless steel. An in-use light is incorporated into the button and takes a standard wedge base 24 Vdc miniature lamp.

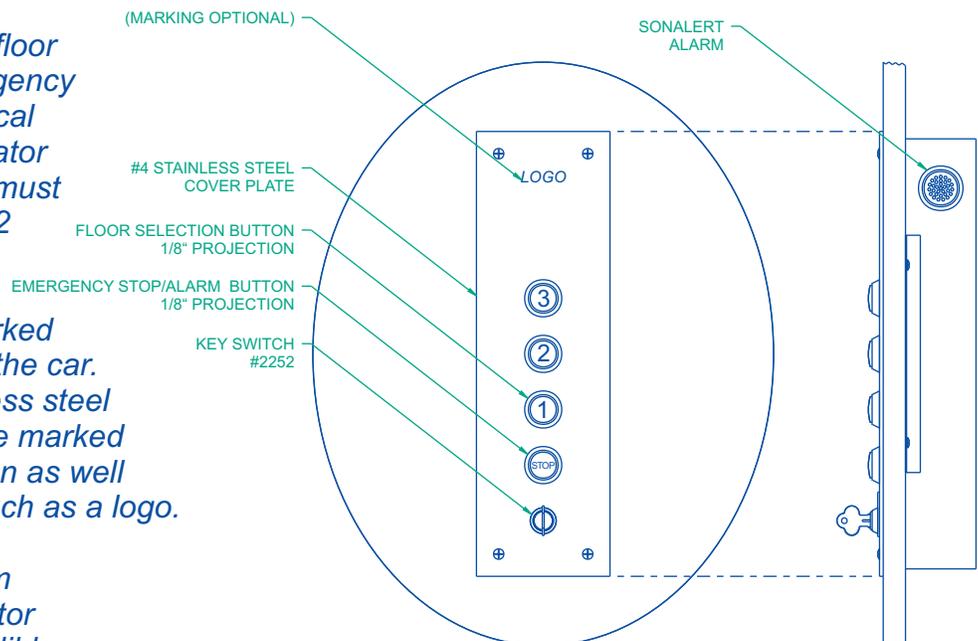


Car Station

The car station consists of floor selection buttons, an emergency stop/alarm button and, if local codes require that the elevator be key restricted, the user must first use the standard #2252 key to activate the buttons.

Capacity information is marked on a plate and mounted in the car. Or, if so desired, the stainless steel car operating station can be marked with the capacity information as well as any other information such as a logo.

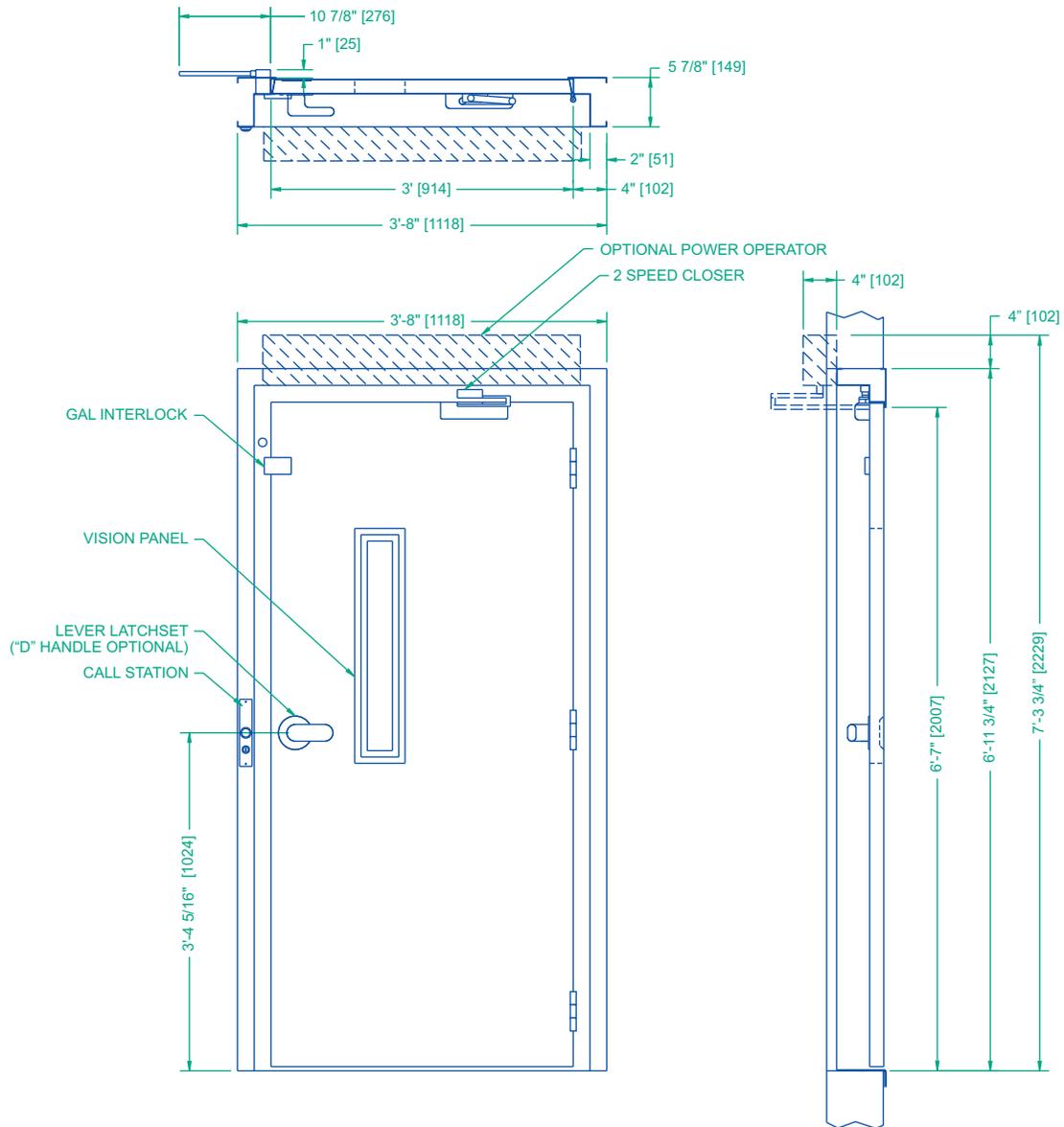
If the emergency stop/alarm button is pressed the elevator stops all motion and an audible alarm will sound.



Landing Entrances

Doors, Interlocks, Power Operators

The C-1000 comes complete with 36"x80" landing entrances. The flush style doors and frames have a fire rating of 1.5 hours and are ready for paint with a zinc wipe coat finish. Each door is complete with a GAL type N interlock. The standard hardware provided is either a "D" handle with push plates, or a lever handle latch set with flush cup levers. A 2 speed door closer is also mounted on the door as a standard, or an optional power door operator can be added.

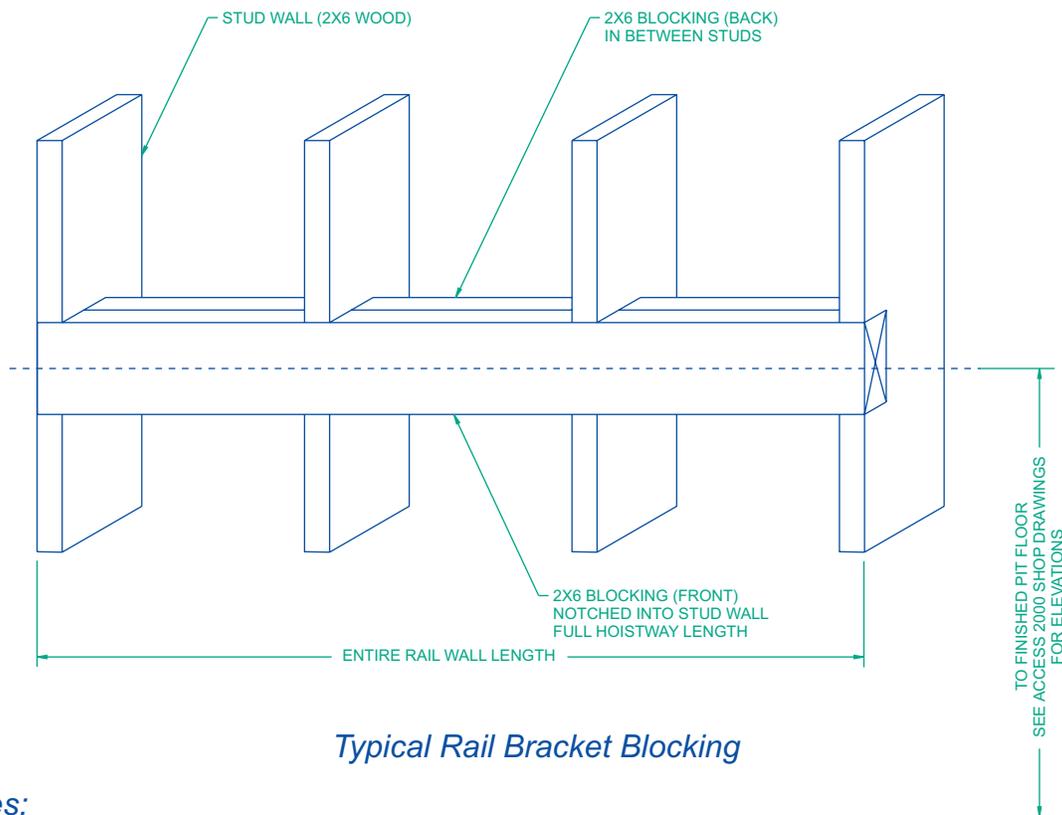


Left hand swing shown.

Hoistway Construction Methods

The C-1000 is designed to suit wood and concrete or masonry hoistway construction. The rail supporting wall will require blocking at each location where a rail bracket is to be mounted. On a wood wall, 2X6 blocking (shown below) is typically used. For masonry walls the blocks at each bracket location must be filled solid with concrete for anchoring. As well, structural steel can be used to construct the rail supporting wall. In all cases, the rail support wall should be designed to suit each particular installation. Refer to the shop drawings supplied by Access 2000 for rail bracket mounting locations.

The C-1000 requires a shallow pit of 12" (or minimum 8") in order for the platform to level into the lowest landing. The pit should be designed to withstand an impact force of 4000 Lb (1818 Kg) for a lift capacity of 1000 Lb (454 Kg). The pit is typically constructed of concrete and tied into the foundation of the building.



Typical Rail Bracket Blocking

Notes:

1. This sketch illustrates a typical rail bracket blocking configuration. Access 2000 accepts no responsibility for the structural design of the hoistway and/or any structure other than the elevator equipment.
2. For masonry walls the hollow blocks at the locations of each rail bracket must be filled solid across the entire length of the hoistway for anchoring.

Common Options

Custom Cab Interior

Being a custom manufacturer, we pride ourselves on the ability to design and build a cab that will best compliment the surrounding atmosphere and decor.

Common cab interior options are:

- *a wide range of plastic laminates*
- *raised or inset oak or other wood grain panels*
- *metal finishes*
- *glass or mirror panels*

We are only limited by our imaginations.

Custom Platform Sizing

The platform size of the C-1000 can be customized to suit your particular needs. Local codes may vary from location to location in regards to platform sizes or any other aspect of the lift, therefore it is always important to consult your local representative before specifying any lift.

Common custom platform sizes are:

- *3'x7' coffin platform*
- *3'x4' compact platform*
- *3'6"x5' platform*

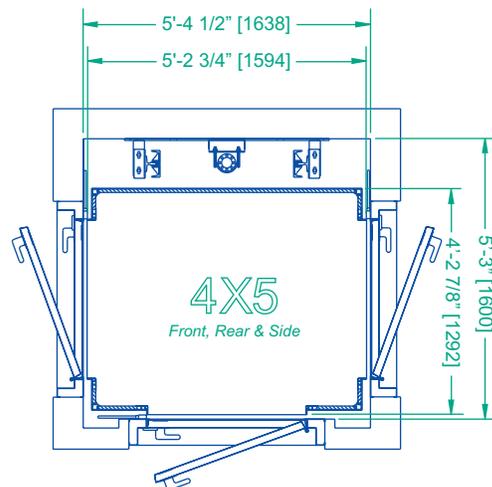
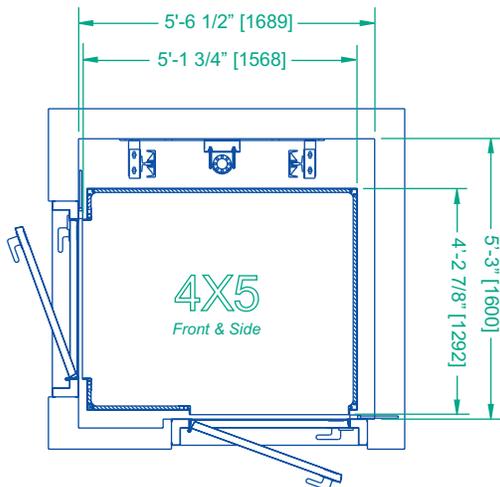
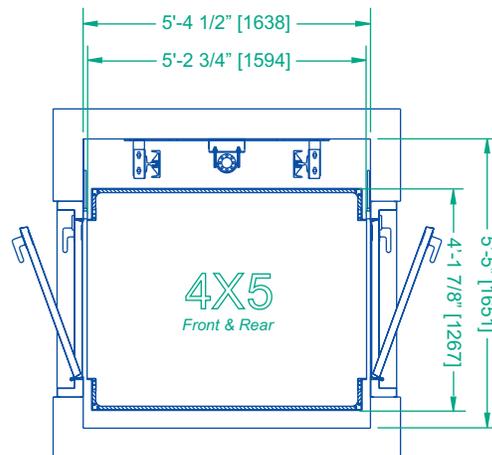
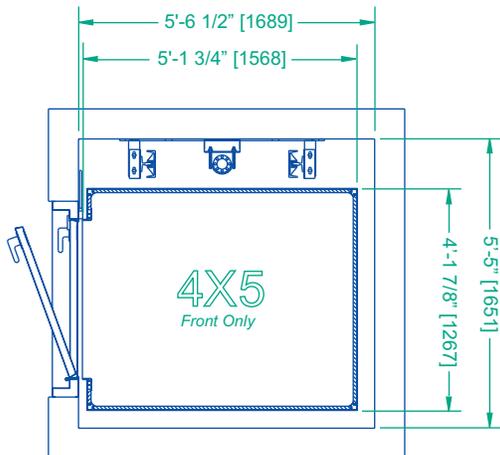
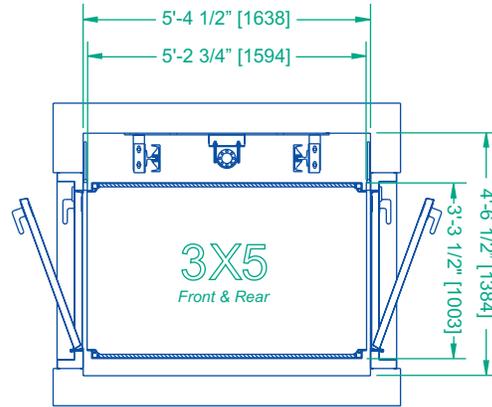
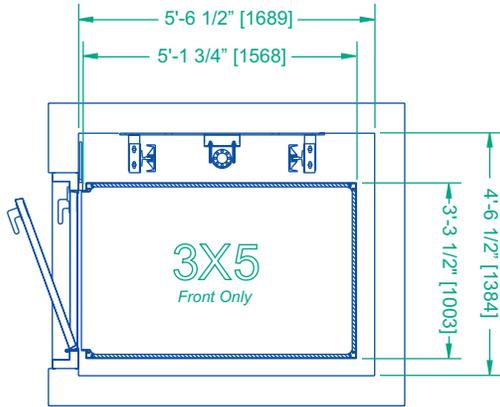
Telephone

The elevator traveling cable used with the C-1000 houses a standard telephone line. This line is run from the car into the machine room and terminated in the controller along with the rest of the control wiring. A flush mount telephone box can be mounted in the car to house a telephone. This provides a line out from the car in the case of an emergency. Of course, the user also has the use of an in-car emergency stop/alarm button which will sound an alarm when pressed.

It is the customer's responsibility to have their local telephone company make the final connections to activate the telephone circuit.

Entry/Exit Configurations

Typical design layouts shown. Contact a representative for the full range of our standard and custom size platform designs, including our 3'x4' compact platform, the 3 1/2'x5' platform, and 3'x7' coffin platform. All layouts are designed to suit wood or masonry construction.



Design Specifications

Capacity.....	1000 lbs (454 Kg)
Speed.....	30 fpm (0.15 m/s), 40 fpm (0.213 m/s)
Drive System.....	Direct hydraulic, 1:2 Roped hydraulic
Platform Size....	3'x5' (914x1524), 3'6"x5' (1067x1524), 3'x7' (914x2134), 4'x5' (1219x1524), Custom sizing available
Enclosure Height.....	87 1/2" (2223) to underside of ceiling
Main Power Supply.....	220/240 Vac 1 phase 40A
Lighting Power Supply.....	110 Vac 15A
Auto-transfer Emergency Back-up Power Supply.....	350 VA (minimum) Inverter
Operation.....	Key restricted, constant pressure pushbutton control
Landing Entrances.....	36"x80" 1.5 hour fire rated flush single swing door/frame assembly c/w vision panel, GAL interlock, 2 speed closer (power operator optional) Lever handles on hallway side and flush cup levers on hoistway side or "D" handle on hallway side and push plate on hoistway side Paintable zinc wiped coat finish
Cab Enclosure.....	Cab walls to be constructed of high quality 3/4" thick thermofused laminated wood panels All reveals and headers are to be clear anodized extruded aluminum (powder coat finishes optional) Custom cab finishes available
Ceiling.....	"Sunshine" ceiling with dual flourescent lighting or "solid ceiling" with pot lights (optional)
Handrails.....	Stainless steel or 3"x6" finished solid oak
Lighting.....	Dual flourescent, automatic on/off control
Emergency Lighting.....	Normal flourescent cab lighting to automatically operate on emergency power supply during power failure
Car Station.....	#4 finish stainless steel plate (muntz bronze optional) Capacity information, Keyed on/off switch Emergency stop/alarm button, Floor selection buttons
Telephone Cabinet.....	(Optional) #4 finish stainless steel cover plate Flush mounted in cab wall Wiring incorporated into traveling cable
Motor and Pump.....	Superior 3.5 hp submersible motor/oil hydraulic pump Emergency manual lowering valve Emergency manual lifting pump Hydraulic valve with true 2 speed control in both directions Pressure compensated down speed (constant down speed regardless of load)
Controller.....	Programmable logic controller fully enclosed mounted in machine room
Optional Equipment.....	Custom platform sizing Power operated doors Electronic safety screens Custom flooring muntz bronze fixtures Contact Saskatoon factory with any questions regarding options
Codes.....	Our products meet or exceed both US and Canadian codes such as ANSI and CSA. However, since local codes may vary from location to location it is always important to consult with your local representative before specifying any lift.

Access 2000 Solutions

We at Access 2000 strongly believe in **best dollar value**. Our ideals and processes are based on this belief. Access 2000 products including the C-1000 Commercial Wheelchair Elevator and the Summit Custom Home Elevator are designed around the principles of quality, dependability and safety. By contacting Access 2000 or an authorized Access 2000 dealer you will be sure to receive qualified and professional advice for all of your accessibility and elevating needs.

Mission Statement

We will be the example customers and competitors use to establish new standards in service and support.

Vision

We will be an industry and community leader with long term relationships built on our exceptional services.

This will be accomplished in an environment of respect, honesty, and responsibility, while aggressively pursuing our market opportunities and relentlessly supporting, training, and mentoring our people.

Core Values

These represent the guiding principles by which we will measure our behaviors in order to foster a culture that reflects our mission and vision. Therefore we will:

- **Recognize and respect** the opinions, contributions, and personal worth of all people.
- **Encourage and support** proactive decision making, intelligent risk taking, and creative thinking.
- **Tolerate** honest mistakes and approach our failures as opportunities to gain experience and learn from them.
- **Foster** communication, cooperation, and teamwork.
- **Work** efficiently, expediently, and profitably without compromise to the highest standards of moral and ethical behavior.
- **Ensure** a safe and healthy workplace in an environment that is high on demands and expectations.

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