

DOMUSLIFT®

The Premium Residential Elevator

DESIGN AND PLANNING GUIDE



APPLICABLE CODE
ASME A17.1/CSA-B44
Safety Code for Elevators and Escalators
Section 5.3 - Private Residence Elevators

DomusLift® is a registered trademark of IGV Group SpA (Milan, Italy)



ELEVATORS SINCE 1966



Offices



Factory



Established in Milan (Italy) in 1966, IGV Group SpA is the top Italian designer and manufacturer of residential elevators. With a history of commitment to excellence in Italian technology and design, the company exports 70% of its elevators to 70 countries worldwide. IGV Group SpA has an established reputation as the residential elevator specialist offering the widest variety of models. Customization and design have always been key factors in the company's business model. With the DomusLift® residential elevator - an exclusive product that has become increasingly popular for its compact and elegant structure - IGV Group SpA leads sales in Europe and Australia. The company is developing a presence in the USA market through authorized dealers.

Copyright 2015. All trademarks and images appearing in this document are the exclusive property of IGV Group SpA. The trademarks and images may not be reproduced, copied, transmitted or manipulated without the written permission of IGV Group SpA.

DomusLift® is a product manufactured by IGV Group SpA - Via Di Vittorio, 21 - 20060 Vignate, Milan - Italy
www.igvlift.com - www.domuslift.com

DESIGN AND PLANNING GUIDE

Index

1. DomusLift® at a Glance	Page 4
2. DomusLift® Advantages	Page 5
3. Design and Planning Guide	Page 6
3.1 Purpose of the Guide	Page 6
3.2 How to Plan a DomusLift® Residential Elevator	Page 6
3.3 Important Notice	Page 6
3.4 DomusLift® Equipment and Features - SUMMARY	Page 7
3.5 DomusLift® General Overview	Page 10
3.6 DomusLift® Cab Types	Page 11
3.6.1 Cab Type 1C - One Front Entrance	Page 12
3.6.2 Cab Type 2P - Two Straight-Through Entrances	Page 13
3.6.3 Cab Type 1L - One Side Entrance	Page 14
3.6.4 Cab Type 2A - Two Corner Entrances	Page 15
3.7 Hoistway Structure	Page 16
3.7.1 Hoistway Construction notes	Page 16
3.7.2 Guide Rail Construction Details	Page 17
3.8 Typical Machine Area	Page 17
3.9 Typical Controller Area	Page 18
3.10 Doors - Entrance and Cab Door	Page 19
3.11 Service Access Hatch	Page 20
3.12 Provisions by Others	Page 20
4. Installation Procedures	Page 21
5. Maintenance	Page 21
6. DomusLift® Aesthetic Options	Page 22
6.1 Luxury Collection Cabs	Page 22
6.2 Create Your Personal DomusLift®, Select Desired Finishes	Page 23
7. Finishes and Features	Page 24
7.1 Cab Interior Walls	Page 24
7.2 Floorings	Page 27
7.3 Versatile Finishes	Page 28
7.4 Accessories	Page 28
7.5 Cab Operating Panel	Page 29
7.6 Hall Station	Page 29
7.7 Display	Page 29
7.8 Pushbuttons	Page 29
7.9 Lightings	Page 30
7.10 Doors	Page 30

1 DomusLift® at a Glance



Designed to integrate

Born from the experience of the finest Italian craftsmanship and engineering, the DomusLift® is a gearless residential elevator conceived to integrate in your home and be itself an element of design. Thanks to its compact and elegant silhouette, the DomusLift® can easily blend into the style and the interior décor of your residence.

Custom Built

This line of elevators features a series of beautiful cabs designed to meet different tastes and styles: classic, contemporary, high-end luxury, or simply minimal. The DomusLift® sizes are extremely flexible. We will work with you to propose a customized solution for your space and residence.

Advanced Safety

Choosing a DomusLift® means choosing a solution that meets the requirements of the safety code for residential elevators. In addition to standard safety features, the DomusLift® system offers several add-on safety such as clearance guards, solid cab door with no gap between cab and hoistway door, and light curtains to ensure maximum protection, even to the less experienced user.

Fully Automatic

The DomusLift® is a modern, state-of-the-art solution for floor-to-floor mobility within your house. It is equipped with automatic sliding doors which ensure higher passenger safety, easy finger tip convenience, and a superior aesthetic result. This elevator system will provide you comfortable and safe ride at any time without disturbing the atmosphere of your home.

DESIGN AND PLANNING GUIDE

2 DomusLift® Advantages

Fully-enclosed Passenger Cab

The DomusLift® is equipped with a fully-enclosed passenger cab without open work. There is no gap between cab and hoistway door. This means a safer and simpler use any time.

Machine Room-Less

The controller is located inside a landing door frame or inside a dedicate control room, thus there is no need for extra space.

Space Saving

The DomusLift® silhouette is lean and compact. It only requires 8" for the pit, while minimum headroom is 9'-6". There will be no waste of space or need for deep excavation.

Comfort and Quietness

For maximum passenger comfort, the DomusLift® is equipped with an ultra-smooth drive system (gearless motor system) ensuring extremely silent and smooth movements during start, travel and stop.

Class A Energy Efficiency

The DomusLift® has earned the highest rating (Class A) in energy efficiency, based on standards set by the prestigious German Engineering Association, Verei Deutscher Ingenieure (VDI). The test was carried out at standard rated load of 500 kg (1,100 lb) and the nominal demand per year is 302 kWh.

Green Features

The DomusLift® elevator consumes less than 10 Amp, the same power of a small electrical appliance. The use of the inverter reduces starting power. The LED lighting in the cab and the auto-off lighting systems when the elevator is not operating ensure additional energy saving. Parking mode at landing avoids unnecessary travels and waiting times.

Upgraded Performance

Aside from the speed, which is slower being a system for personal and residential use, the DomusLift® has been designed to offer the same levels of safety, comfort and durability of a commercial elevator.

Simple Maintenance

Thanks to its integrated and consistent design, the DomusLift® is a quality product born from strong manufacturing experience. Thus it requires minimal and basic service.

Service

IGV Group SpA operates through a network of selected and licensed dealers in USA. Technicians are periodically trained on site and at IGV Group SpA Training Centre in Italy.

Proven Technology

The DomusLift® is built to last: 30,000 DomusLift® operating worldwide for proven quality and reliability of this innovative elevator system.

Complete Package

Whatever model you choose, with the DomusLift® elevator system you will be offered a complete solution: from doors, floorings, to a wide selection of finishes and accessories that you can choose to match the desired configuration and aesthetics.

Customization

The DomusLift® is custom built and designed to fit almost anywhere within your home, with minimal impact on architecture. A team of engineers and technicians will work on your project in order to propose the best solution for your home.

Hoistway Options

The DomusLift® can be easily incorporated into an existing or pre-built masonry hoistway. Additionally, the DomusLift® can be installed in a stand-alone hoistway structure. This solution, which requires local building code approval, is proposed in painted iron (almost all range of colors) or elegant aluminum with beautiful finishes to match the cab interior décor.

Warranty

2- year warranty after elevator commissioning.

APPLICABLE CODE
ASME A17.1/CSA-B44
Safety Code for Elevators and Escalators
Section 5.3 - Private Residence Elevators

DESIGN AND PLANNING GUIDE

3 Design and Planning Guide

3.1 Purpose of the Guide

This Guide will assist architects, contractors, home owners and elevator professionals in the initial stage of a DomusLift® residential elevator architectural concept.

The DomusLift® is designed and manufactured by IGV Group SpA. The product meets or exceeds the requirements established by ASME A17.1, 2010 - Safety Code for Elevators and Escalators, Section 5.3 - Private Residence Elevators. We recommend that local Authorities Having Jurisdiction be contacted to ensure adherence to any additional local rules and regulations.

This Guide also provides a section for the DomusLift® materials, finishes and accessories currently available. Please contact the locally-authorized dealer for additional information.

3.2 How to Plan a DomusLift® Residential Elevator

We recommend, as a minimum, the following:

1. Consult with client about the intended use of the elevator.
2. Research local, state and national code requirements.
3. Verify any site or design limitations.
4. Identify cab type and hoistway size requirements per this Guide.
5. Decide location of machine room (if any).
6. Plan for electrical requirements by others.

3.3 Important Notice

The DomusLift® product described herein, as manufactured by IGV Group SpA, is a private residence elevator designed and dimensioned to provide easy floor-to-floor access.

This Planning Guide provides nominal dimensions and specifications useful for the initial planning of a project. Before beginning actual construction, installation (shop) drawings may need to be customized with specifications and dimensions for your specific project.

Elevator layouts and dimensions are in accordance with standards set forth by ASME A17.1, Part V, Section 5.3. Please contact the locally-authorized dealer for specific information pertaining to planned projects, including discrepancies between referenced standards and local codes or laws.

The dimensions and specifications in this Planning Guide are subject to change (without notice) due to product enhancements, changes in code requirements, and product applications.

3.4 DomusLift® Equipment and Features - SUMMARY

Gearless Model with Automatic Sliding Doors

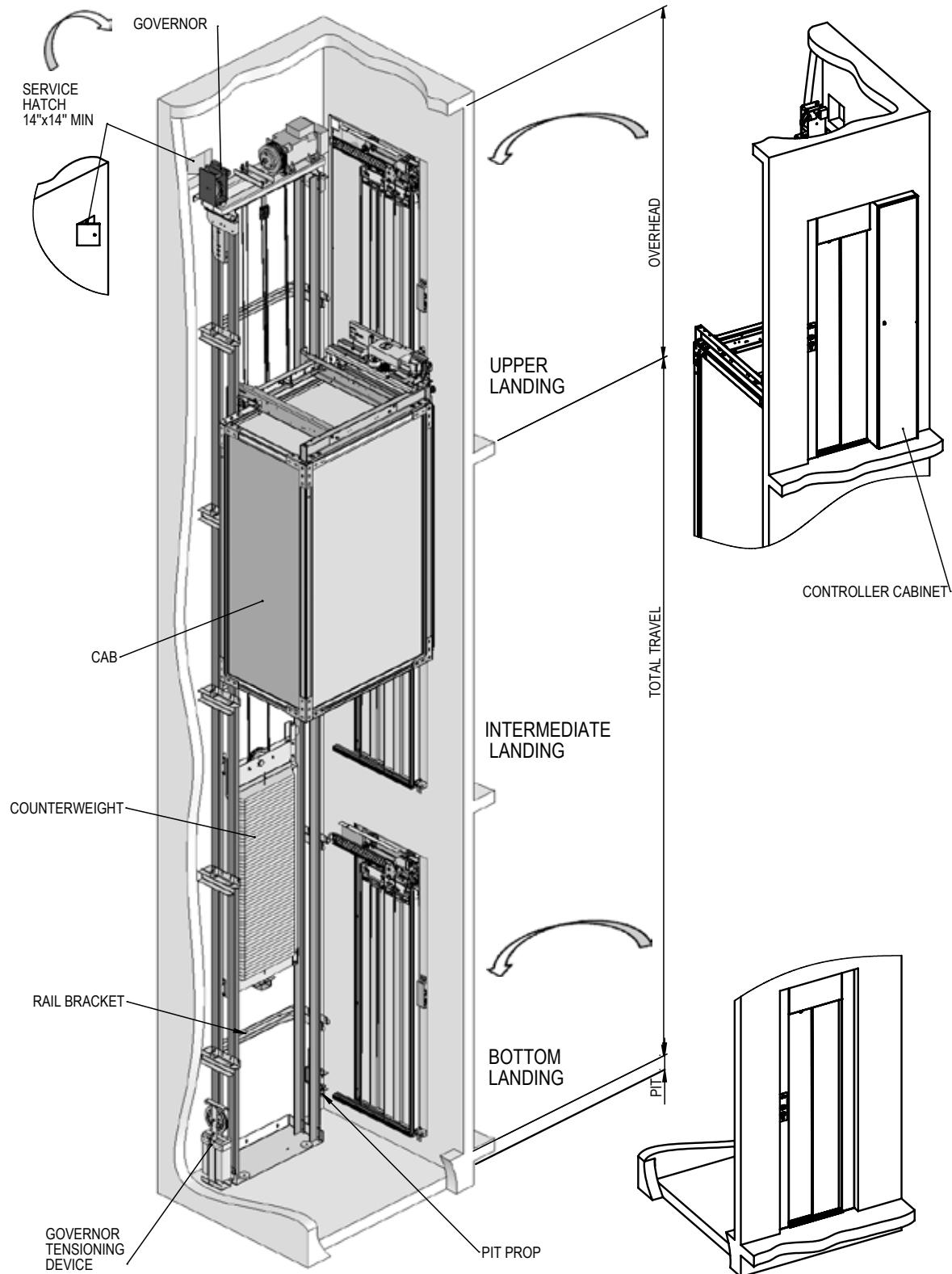
Load Capacity	Typical: 550 lb (250 kg); 800 lb (360 kg); 950 lb (430 kg); others on request.
Rated Speed	40 ft/min (0.20 m/s) standard.
Cab Entrances	<ul style="list-style-type: none"> ■ One front entrance. ■ One side entrance. ■ Two straight-through entrances. ■ Two corner entrances.
Cab Size	Available cab sizes from W:29 ½" x L:44" x H:80" (750 mm x 1118 mm x 2025 mm) to W:36" x L:60" x H:80" (914 mm x 1524 mm x 2025 mm); and W:40" x L:54" x H:80" (1016 mm x 1372 mm x 2025 mm).
Cab Size (Customized)	All intermediate sizes are available - with step ½"; cab area 15 ft² maximum. Higher cab sizes are also available. For example, 84" high cab, with 83" high door (9'-10" overhead required).
Maximum Travel	50 ft (15.25 m). Higher travel heights available, where code permits.
Levels and Entrances	Up to 4 stops / up to 2 cab entrances.
Drive System	Counterweighted traction roped gearless with VVVF synchronous permanent magnets 1.3 Hp (1 kW) motor.
Layout Configuration	Fully MRL Machine Roomless (traction machine inside the hoistway, controller inside a landing door frame) or controller inside a dedicated (remote) control room.
Noise Level (For typical installation)	55 dbA (up and down direction).
Cab and Landing Door	Two-panel, side automatic sliding door. Clear width: from 23 ½" to 39 ½", step 2" (from 600 to 1000 mm, step 50 mm) depending on the cab sizes. Clear high 78 ¾" (2000 mm) typical; higher door available. Three-panel side and two-panel central available.
Component Weights (For handling purpose)	The total weight is variable from 3000 to 4000 lb (from 1400 to 1800 kg). The heaviest single part is the machine, 300 lb (130kg).
Power Supply (Circuit by others, close to the controller area)	230 volt, single phase with ground, 60 Hz, 20 Amp fused disconnect.
Lighting Supply (Circuit by others, close to the controller area)	120 volt, single phase, 60 Hz, 6 Amp.
Governor Access Hatch (By others)	Minimum 14" x 14" (350 x 350 mm) locked and switched; located as per shop drawing.
Telephone (Circuit by others, close to the controller area)	Hands-free telephone.
Operating Temperature Range	40°F to 105°F (5°C to 40°C).
Minimum Travel Between Landings	8'-6" (2600 mm) for cab with one entrance, 30" (760 mm) for cab with two entrances.
Control System	Microprocessor controller, with display for self-diagnostic. Fully automatic pushbutton operation.
Pit Depth Requirement	8" (200 mm) minimum up to 35" (900 mm).
Minimum Overhead Clearance	9'-6" (2900 mm) for standard 80" (2025 mm) cab with automatic sliding doors.
Green Features	<ul style="list-style-type: none"> ■ Counterweighted gearless system. ■ LED lighting system. ■ Auto-off lighting system. ■ Parking mode at landing. ■ Small footprint.

<p>Safety Features</p>	<ul style="list-style-type: none"> ■ Cab door safety switch - Stops the elevator if the cab door panel is forced to open more than $\frac{3}{8}$" (10 mm). ■ In-cab run/stop switch, located on car operating panel - Manual toggle switch disables elevator operation. ■ In-cab alarm button, located on car operating panel - Allows rider to ring a bell from inside the cab. ■ Hands-free telephone, located on car operating panel - Allows rider to call for assistance. ■ Uninterruptible power supply (UPS) system - Allows automatic lowering of the cab and door operation in the event of a power failure (option). ■ Automatic emergency lighting - Turns on the cab light in the event of a power failure. ■ Battery backup - Provides lighting and use of alarm and telephone at any time. ■ Upper and lower final terminal switches - Elevator is stopped if it overruns the normal limits at top or bottom landing; automatic controls become inoperable, and elevator must be serviced to determine and correct the fault. ■ Service switch for controller, drive and cab lighting - Permits disabling of elevator for servicing purposes. ■ Pit stop switch and cab top stop switch - Permits disabling of elevator for servicing purposes. ■ Pit prop - Used for servicing purposes. ■ Buffers - Softly stop the cab if it travels beyond the bottom or top landing. ■ Mechanical interlock on landing doors - Hoistway doors remain locked when the cab is not at that floor, preventing elevator from running until all doors are closed and locked. ■ Cab downwards over-speed protection, operated by governor and safety gear - Stops the elevator in case of downwards over-speed, and keeps the cab stopped by gripping the guide rails. ■ Cab upwards over-speed and unexpected movement protection, operated by governor and machine brake - Stops the elevator in case of an uncontrolled movement, and in case of upwards over-speed. ■ Manual electrical emergency operation - Electrical operation manually driven from inside controller cabinet, for rescue purposes. ■ Full-height infra-red barriers - Stop the door closure and re-open the door when a passenger is about to be struck by the door. ■ Keyed on/off control in car operating panel and/or hall stations - Denies use and control of elevator by children or unauthorized people (option).
<p>Standard Features</p>	<ul style="list-style-type: none"> ■ Fully automatic operation. ■ Fully-enclosed passenger cab. ■ Automatic cab lighting. ■ Automatic sliding doors - two panels side opening. ■ Modular rail sections. ■ Data plates and capacity tags. ■ Cab LED lighting.
<p>Optional Features and Accessories</p>	<ul style="list-style-type: none"> ■ Remotely-located controller. ■ Air conditioning (for observation elevators). ■ Forced ventilation. ■ Digital position indicator in hall stations and in car operating panel. ■ Handrail. ■ Voice synthesizer. ■ Gong (sound signal at landing). ■ LED light system embedded in the lintel of the door frame. ■ Digital frame inside the cab to display images and videos through USB key.
<p>Design Assistance</p>	<p>Shop Drawings.</p>
<p>Warranty</p>	<p>2- year warranty after elevator commissioning.</p>



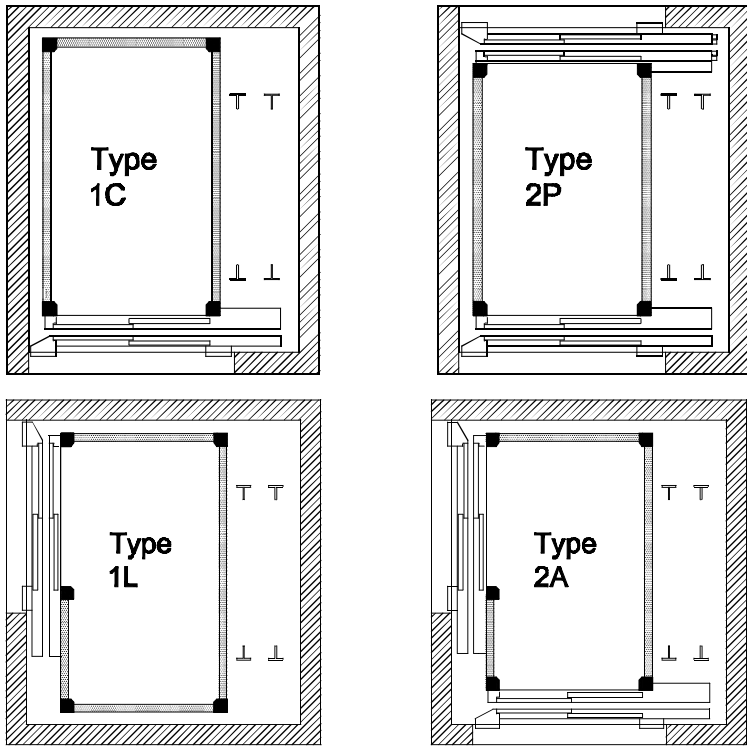
3.5 DomusLift® General Overview

The elevator assembly consists of a cab, guide rails, 2:1 roping-on-traction gearless machine, counterweight, control system, sliding doors, signals and alarms, electrical wiring, parts and accessories necessary to properly install the elevator to meet performance, operation, codes and safety requirements.

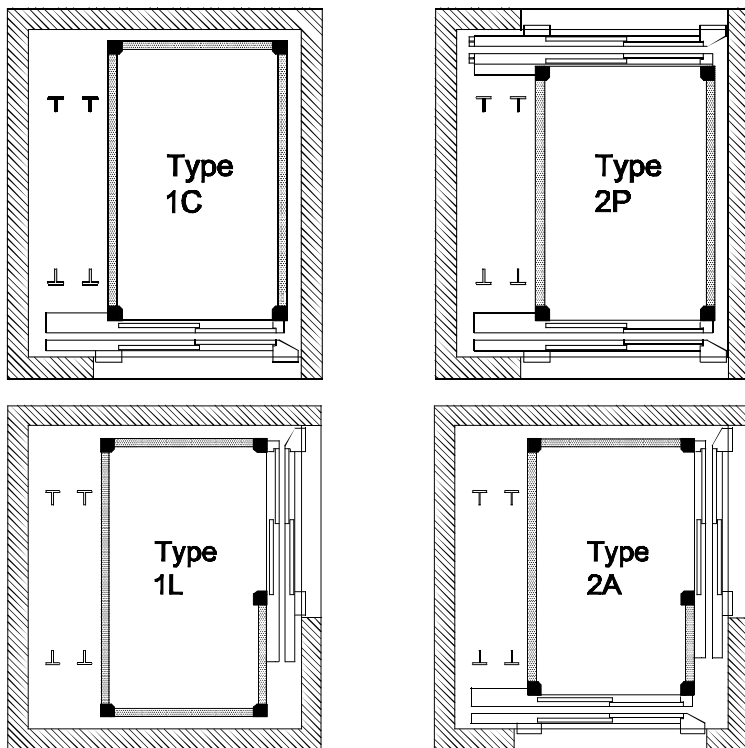


3.6 DomusLift® Cab Types

The DomusLift® elevator is available in four different layouts to suit different buildings. Each proposal is available in right-hand layout:



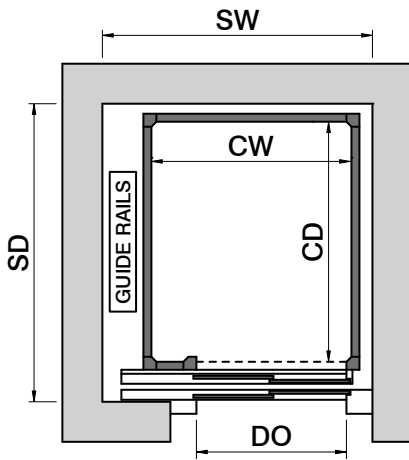
and left-hand layout (mirrored):



IMPORTANT. Dimensions in these tables are only valid for the cab and hoistway sizes listed. For customized cab and/or hoistway sizes, always refer to actual shop drawings.

3.6.1 Cab Type 1C - One Front Entrance

Masonry Hoistway



1C								
CW [in]	29 1/2	40	29 1/2	36	40	33 1/2	37 1/2	41 1/2
CD* [in]	44	44	60	60	54	60	57	52
SW [in]	49 3/4	60 1/4	49 3/4	56 1/4	60 1/4	53 3/4	57 3/4	61 3/4
SD [in]	55 1/2	55 1/2	71 1/2	71 1/2	65 1/2	73 1/2	70 1/2	65 1/2
Door type	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO [in]	27 1/2	35 1/2	27 1/2	31 1/2	35 1/2	31 1/2	35 1/2	39 1/2
Capacity typical [lb]	550	800	800	950	950	950	950	950

* CD min = 44 in

Right-hand and left-hand available.

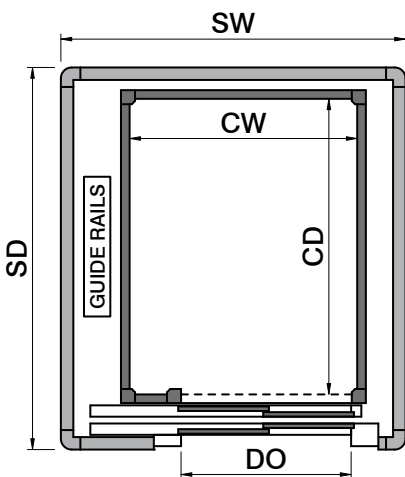
Cab sizes, other dimensions available, step 1/2".

Clear entrance, dimensions available: from 23 1/2" to 39 1/2", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 3/4". Others on request.

Hoistway Structure



1C								
CW [in]	29 1/2	40	29 1/2	36	40	33 1/2	37 1/2	41 1/2
CD* [in]	44	44	60	60	54	60	57	52
SW [in]	57	67 1/2	57	63 1/2	67 1/2	61	65	69
SD [in]	59 1/2	59 1/2	75 1/2	75 1/2	69 1/2	77 1/2	74 1/2	69 1/2
Door type	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO [in]	27 1/2	35 1/2	27 1/2	31 1/2	35 1/2	31 1/2	35 1/2	39 1/2
Capacity typical [lb]	550	800	800	950	950	950	950	950

* CD min = 44 in

Right-hand and left-hand available.

Cab sizes, other dimensions available, step 1/2".

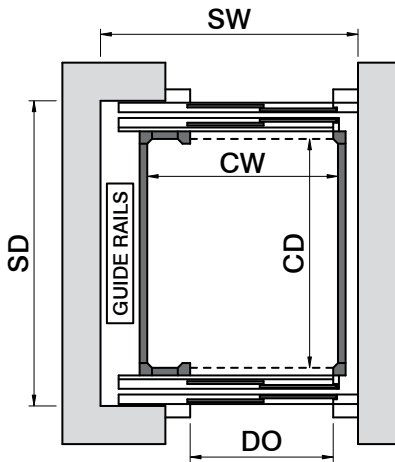
Clear entrance, dimensions available: from 23 1/2" to 39 1/2", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 3/4". Others on request.

3.6.2 Cab Type 2P - Two Straight-Through Entrances

Masonry Hoistway



2P								
CW [in]	29 1/2	40	29 1/2	36	40	33 1/2	37 1/2	41 1/2
CD* [in]	49 1/2	49 1/2	60	60	54	60	57	52
SW [in]	49 3/4	60 1/4	49 3/4	56 1/4	60 1/4	53 3/4	57 3/4	61 3/4
SD [in]	65 1/2	65 1/2	76	76	70	80	77	72
Door type	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO [in]	27 1/2	35 1/2	27 1/2	31 1/2	35 1/2	31 1/2	35 1/2	39 1/2
Capacity typical [lb]	550	800	800	950	950	950	950	950

* CD min = 49 1/2 in

Right-hand and left-hand available.

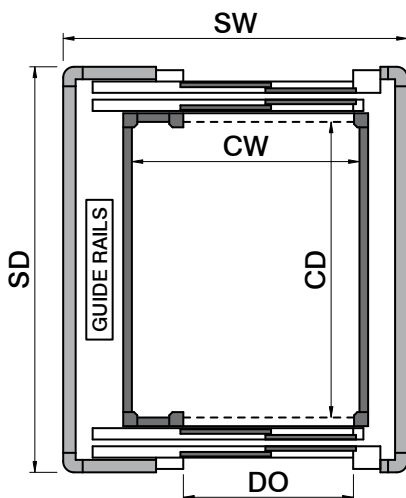
Cab sizes, other dimensions available, step 1/2".

Clear entrance, dimensions available: from 23 1/2" to 39 1/2", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 3/4". Others on request.

Hoistway Structure



2P								
CW [in]	29 1/2	40	29 1/2	36	40	33 1/2	37 1/2	41 1/2
CD* [in]	49 1/2	49 1/2	60	60	54	60	57	52
SW [in]	57	67 1/2	57	63 1/2	67 1/2	61	65	69
SD [in]	69	69	79 1/2	79 1/2	73 1/2	83 1/2	80 1/2	75 1/2
Door type	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO [in]	27 1/2	35 1/2	27 1/2	31 1/2	35 1/2	31 1/2	35 1/2	39 1/2
Capacity typical [lb]	550	800	800	950	950	950	950	950

* CD min = 49 1/2 in

Right-hand and left-hand available.

Cab sizes, other dimensions available, step 1/2".

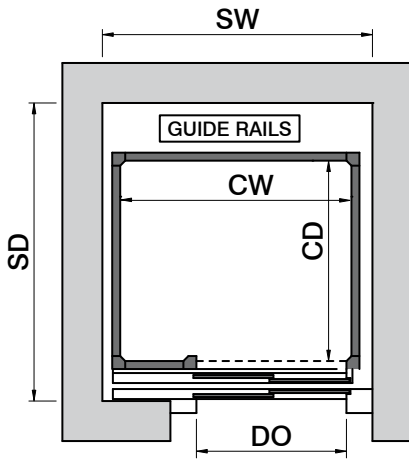
Clear entrance, dimensions available: from 23 1/2" to 39 1/2", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 3/4". Others on request.

3.6.3 Cab Type 1L - One Side Entrance

Masonry Hoistway



1L								
CW* [in]	44	44	60	60	54	44	54	54
CD [in]	29 ½	40	29 ½	36	40	25 ½	29 ½	40
SW [in]	52	52	68	68	62	52	62	62
SD [in]	53 ½	64	53 ½	60	64	51 ½	55 ½	66
Door type	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO [in]	27 ½	27 ½	37 ½	37 ½	35 ½	31 ½	39 ½	39 ½
Capacity typical [lb]	550	800	800	950	950	550	550	950

* CW min = 44 in

Right-hand and left-hand available.

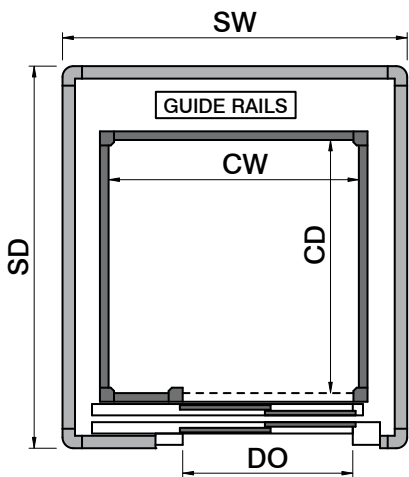
Cab sizes, other dimensions available, step ½".

Clear entrance, dimensions available: from 23 ½" to 39 ½", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 ¾". Others on request.

Hoistway Structure



1L								
CW* [in]	44	44	60	60	54	44	54	54
CD [in]	29 ½	40	29 ½	36	40	25 ½	29 ½	40
SW [in]	59	59	75	75	69	59	69	69
SD [in]	57 ½	68	57 ½	64	68	55 ½	59 ½	70
Door type	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO [in]	27 ½	27 ½	37 ½	37 ½	35 ½	31 ½	39 ½	39 ½
Capacity typical [lb]	550	800	800	950	950	550	550	950

* CW min = 44 in

Right-hand and left-hand available.

Cab sizes, other dimensions available, step ½".

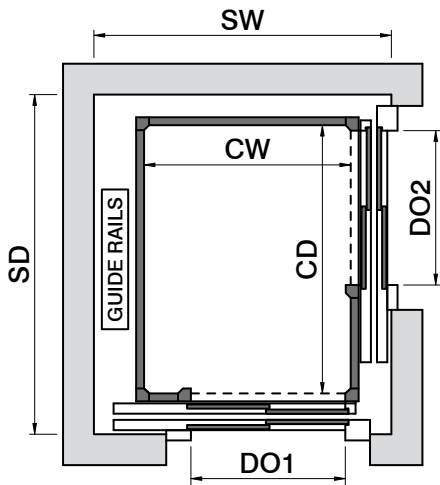
Clear entrance, dimensions available: from 23 ½" to 39 ½", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 ¾". Others on request.

3.6.4 Cab Type 2A - Two Corner Entrances

Masonry Hoistway



2A								
CW [in]	29 ½	40	29 ½	36	40	29 ½	37 ½	40
CD* [in]	44	44	60	60	54	44	57	54
SW [in]	53 ½	64	53 ½	60	64	55 ½	63 ½	66
SD [in]	56 ¼	56 ¼	72 ¼	72 ¼	66 ¼	56 ¼	71 ¼	68 ¼
Door type 1	2AT	2AT	2AT	2AT	2AT	2AT	3AT	3AT
Door type 2	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO1 [in]	27 ½	35 ½	27 ½	31 ½	35 ½	27 ½	35 ½	35 ½
DO2 [in]	23 ½	23 ½	35 ½	35 ½	31 ½	27 ½	35 ½	35 ½
Capacity typical [lb]	550	800	800	950	950	550	950	950

* CD min = 44 in

Right-hand and left-hand available.

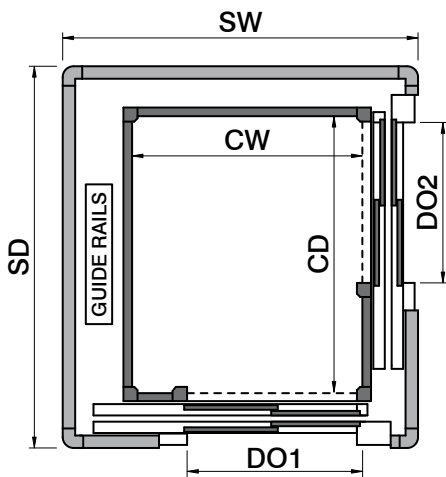
Cab sizes, other dimensions available, step ½".

Clear entrance, dimensions available: from 23 ½" to 39 ½", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 ¾". Others on request.

Hoistway Structure



2A								
CW [in]	29 ½	40	29 ½	36	40	29 ½	37 ½	40
CD* [in]	44	44	60	60	54	44	57	54
SW [in]	57 ½	68	57 1/2	64	68	59 ½	67 ½	70
SD [in]	62 ¾	62 ¾	78 ¾	78 ¾	72 ¾	62 ¾	77 ¾	74 ¾
Door type 1	2AT	2AT	2AT	2AT	2AT	2AT	3AT	3AT
Door type 2	2AT	2AT	2AT	2AT	2AT	3AT	3AT	3AT
DO1 [in]	27 ½	35 ½	27 ½	31 ½	35 ½	27 ½	35 ½	35 ½
DO2 [in]	23 ½	23 ½	35 ½	35 ½	31 ½	27 ½	35 ½	35 ½
Capacity typical [lb]	550	800	800	950	950	550	950	950

* CD min = 44 in

Right-hand and left-hand available.

Cab sizes, other dimensions available, step ½".

Clear entrance, dimensions available: from 23 ½" to 39 ½", step 2"
(from 600 to 1000 mm, step 50 mm).

TYPICAL HEIGHT:

- Cab clear inside: 80". Others on request.
- Entrance: 78 ¾". Others on request.

3.7 Hoistway Structure

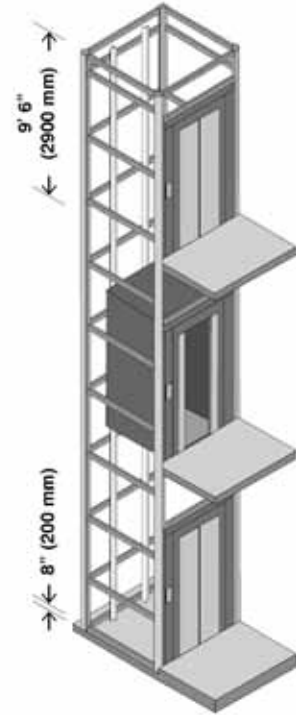
DomusLift® can also be installed with a hoistway structure (aluminum or steel) for indoor or outdoor elevator. A hoistway structure is not part of the elevator and must meet the requirements of local building codes.

Before considering this type of installation, please contact the local Authorities Having Jurisdiction in the area where the elevator will be installed to ensure it is in compliance with all necessary building codes.

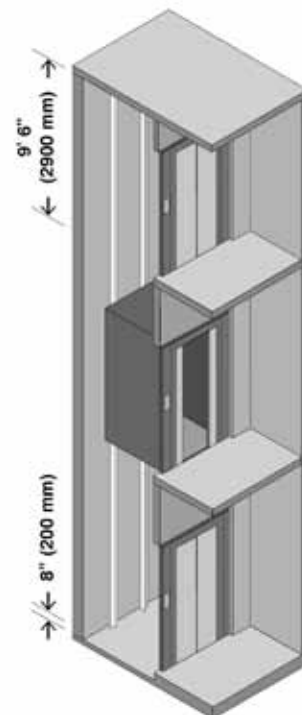
This Design and Planning Guide does not refer to hoistway structures.

3.7.1 Hoistway Construction Notes

- Hoistway must be in accordance with ASME A17.1/CSA B44, and all local codes and regulations.
- Job-specific documentation must be obtained and used to construct the elevator hoistway.
- Walls of the elevator hoistway can be constructed of wood, masonry or concrete. The wall behind the guide rails must be load-bearing and able to withstand the servicing loads. See recommended construction notes and rail reactions below. The strength of the wall must be assessed by a licensed engineer.
- The guide rails are mounted and fastened to the load bearing wall with steel brackets. These rail brackets are generally every 5' (1500 mm) vertically apart. The actual spacing depends on the load capacity and on the cab size; see the shop drawing.
- The pit must be the same width and length as the hoistway. The pit floor must be flat level, with a minimum of 8" below the lower landing finished floor. Pit waterproofing must be provided to maintain a dry pit. A sump pump may also be required by the local Authority Having Jurisdiction.
- Pit floor construction should withstand a total of 9400 lb (4250 kg) impact load. The actual value is quoted on the shop drawing.
- Minimum overhead clearance is 9'-6" (2900 mm) above the upper landing finished floor (optional 84" cab height requires 9'-10").
- Hoistway sizes reflect running and access clearances only. Consult your local authority in order to assure compliance with state and local codes.
- Due to limited clearances, it is imperative that the walls are square and plumb throughout the hoistway. The finished hoistway must be within 1/2" tolerance from top to bottom.
- Hoistway is required to be free of all pipes, wiring and obstructions not related to the operation of the elevator.
- Service access hatch is required in the governor/machine area.
- Building structure must provide for a chain hoist for hoisting materials to the top of the hoistway during installation; the heaviest single part is the machine, 300 lb (130 kg).
- The elevator has no special requirements for ventilation or cooling. Refer to your local Authority Having Jurisdiction.
- Building owner must provide all masonry, carpentry and drywall work as required, including all finishes around landing door frames and landing entrances.
- Fire rating of the hoistway is subject to local building code.
- The building structural engineer must ensure that the building and hoistway will support all loads imposed by the elevator equipment.

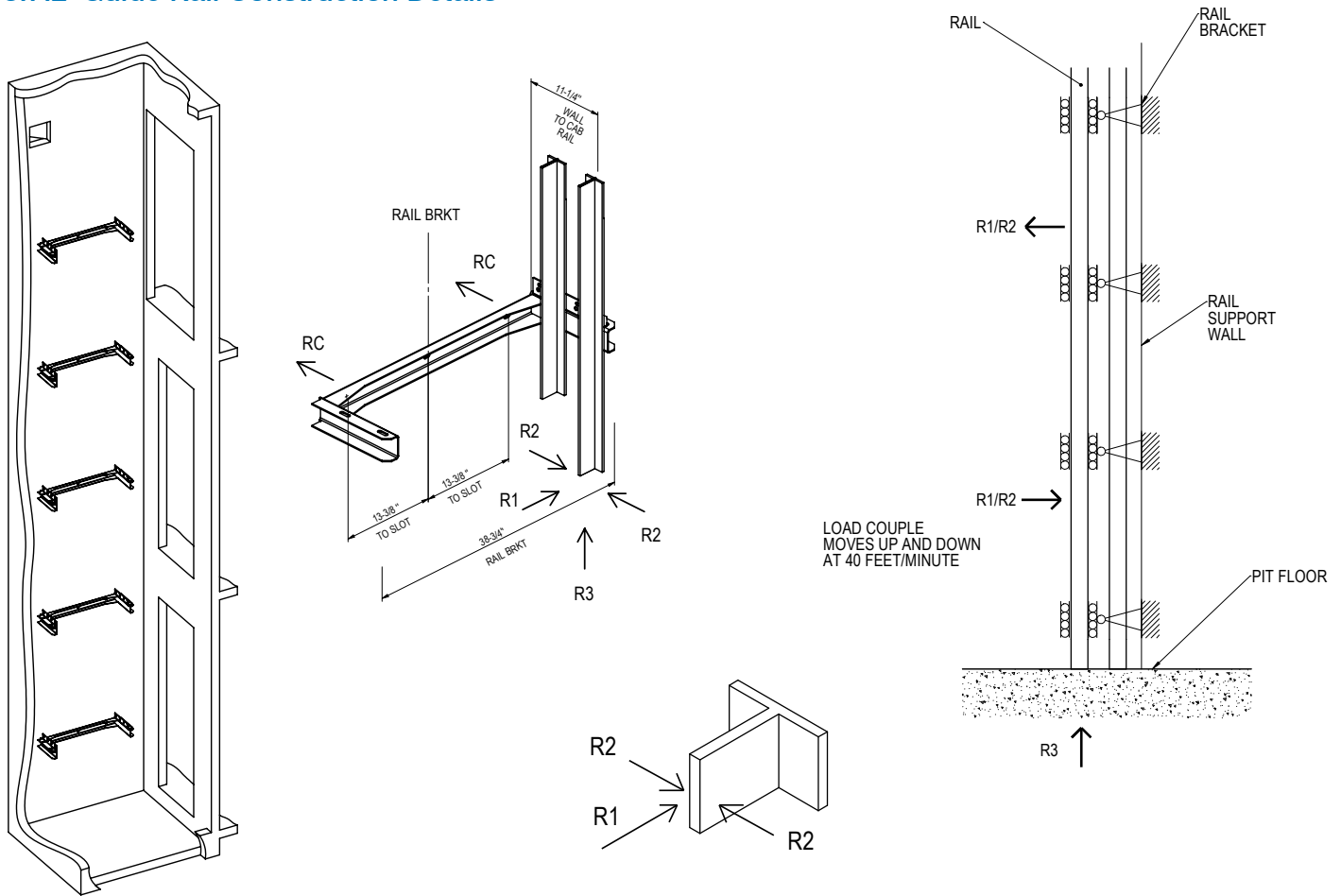


DomusLift® Hoistway Structure
(Aluminum or Steel)



DomusLift® Masonry
or Wooden Hoistway

3.7.2 Guide Rail Construction Details



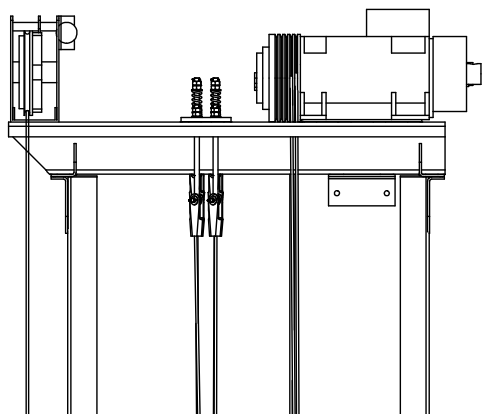
		Normal operation	Safety engagement
R1	Side forces caused by asymmetrical loading.	180 lb	450 lb
R2	Front forces caused by cantilever sling. Top shoes pull out; bottom shoes push in.	460 lb	1,220 lb
R3	Total down force in the pit on four guide rails.	4,800 lb	9,400 lb
RC	Wall attachment pull-out force per fastener (1/2 x 4\" log bolts).	500 lb	1,300 lb

The quoted loads are typical. Refer to shop drawings for actual values. Rail loads consider dynamic loading and do NOT include safety factor. Applicable safety factor must be considered in hoistway design and certified by a licensed engineer.

3.8 Typical Machine Area

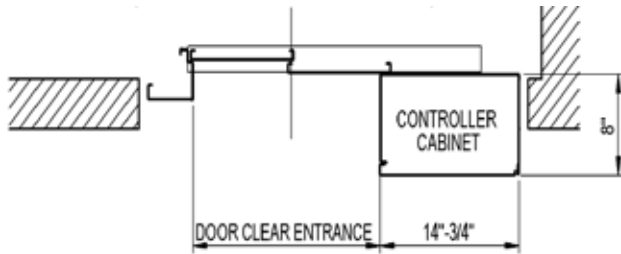
The gearless machine is located inside the hoistway, at the top of the guide rails. The governor is located on the same supporting beam, beside the machine; a service access hatch to governor is required (see relevant clause).

- Minimum overhead clearance for standard 80" (2025 mm) cab with automatic sliding door is 9'-6" (2900 mm) above the upper landing finished floor.
- GFCI receptacle, light and its switch to be located (by others) on the guide wall, between the governor and the machine (or, it may be located on the ceiling).

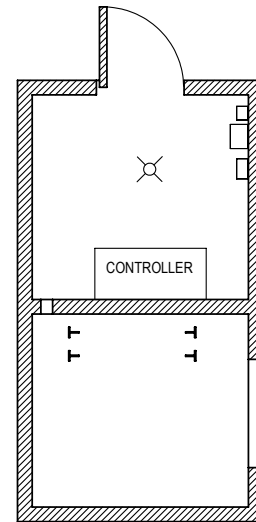


3.9 Typical Controller Area

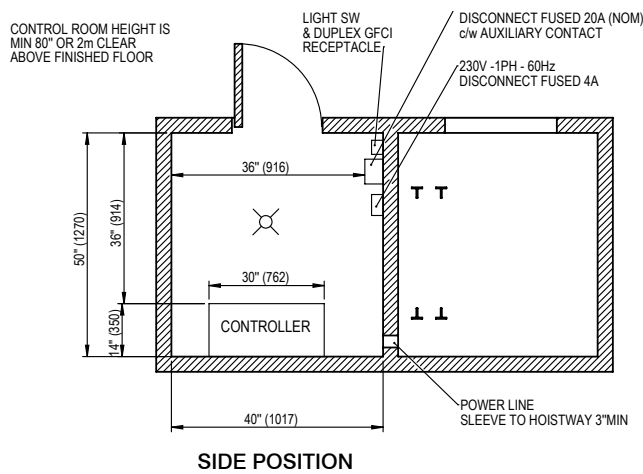
For standard machine room-less, the controller is enclosed in the jamb of a landing door (preferably the upper landing).



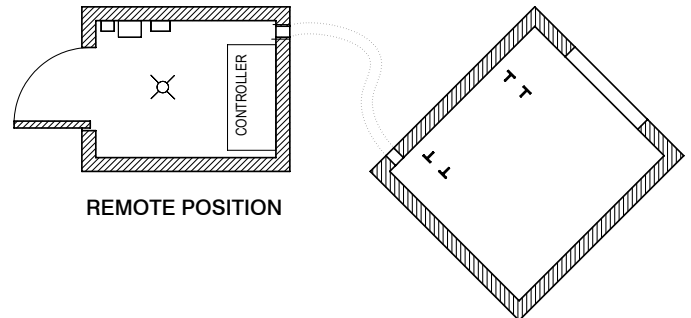
Alternatively, the controller may be enclosed in a cabinet located in a dedicated or remote control room (optional). In the case of dedicate control room, the best location is at the upper landing, adjacent to the hoistway, preferably on the same side as the guide rails. The maximum distance allowed between controller and machine is 30 ft (9.2 m). Dedicated PVC sleeves, 2 x 3" (2 x 76 mm) minimum in diameter are required between the hoistway and the control room. The control room must be free of any pipes, wiring and obstructions not related to the operation of the elevator.



REAR POSITION



SIDE POSITION



REMOTE POSITION

The space in front of the enclosed controller must be fit for this purpose; i.e., it must be weather-proof and protected against dampness, its temperature must range from 40°F to 105°F (5°C to 40°C), the area in front of the door of the controller cabinet must always be kept clear and accessible, and the area must be regularly lit (at least 100 lx) and have a sufficient height (at least 80"). Electrical connection to the DomusLift® must be made by qualified personnel, in compliance with the applicable local laws and regulations.

The power is provided by two dedicated lockable fused disconnects, one 230 VAC single phase 20 Amp (3 wires and ground, with an NO auxiliary contact) for main power, one 120 VAC single phase 6 Amps for lighting. The disconnect switches should be located at 36" (900 mm) maximum from the controller inlet, and the wiring path must be protected by conduit. At least 36" (900 mm) of working space must be provided in front of each disconnect switch.

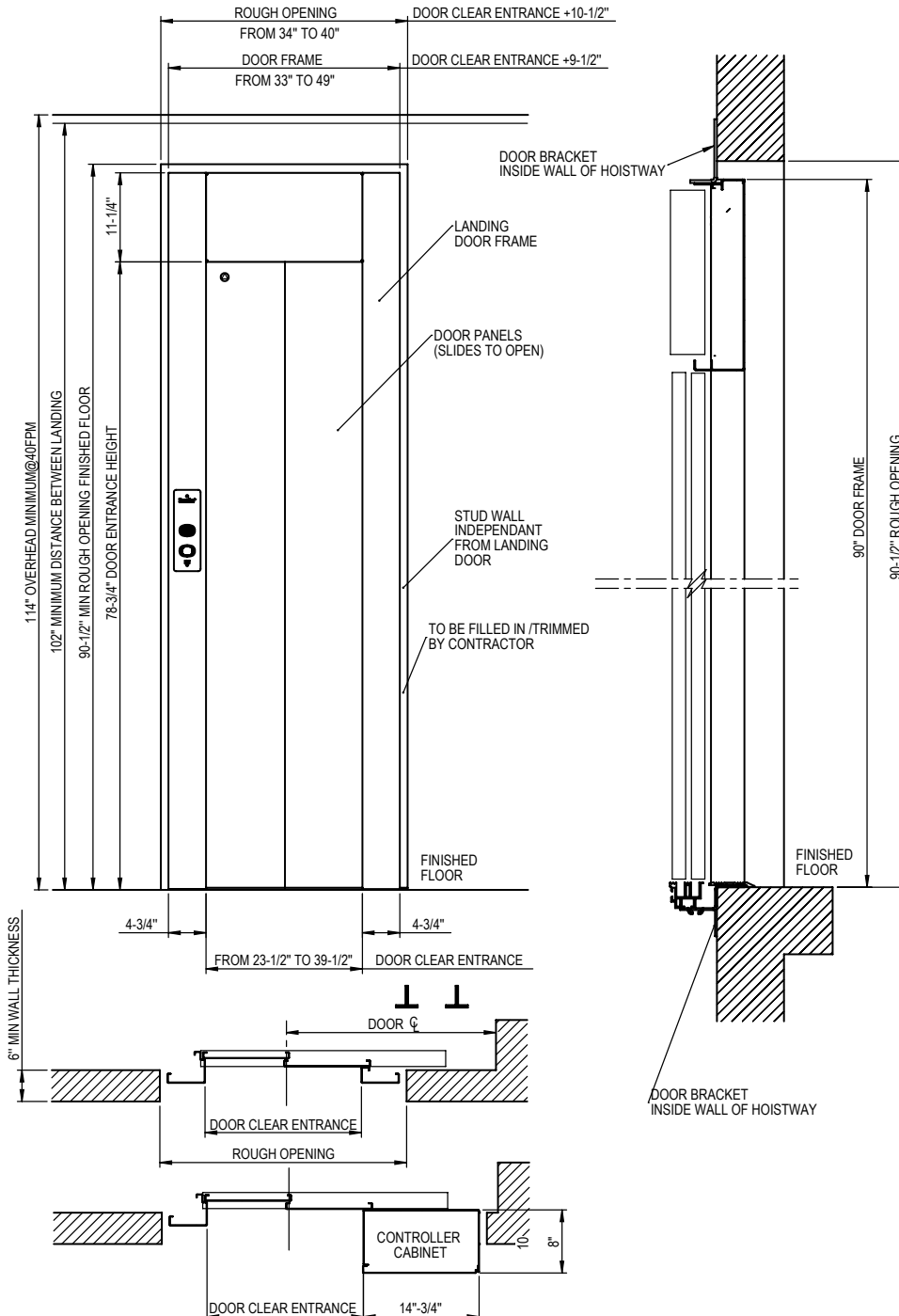
The telephone line jack must be located close to the disconnect switches.

The elevator has no special requirements for ventilation or cooling (Refer to your local Authority Having Jurisdiction).

3.10 Doors - Entrance and Cab Door

The doors are two-panel, side sliding, automatically driven by the operation. Clear entrance is from 23 1/2" to 39 1/2", step 2" (from 600 to 1000 mm, step 50 mm) wide (matching the actual size of the cab) and 78 3/4" (2000 mm) high (typical, others height on request). A wall rough opening must be left to accommodate for the landing door jambs and header. The landing door operating mechanism, door frames and sill hang in hoistway, attached to inside wall of hoistway using brackets. The door frame assembly is not designed to bear vertical loads. Drawing below shows view from landing, looking into the elevator hoistway (guide rails on right wall). For a fully MRL layout, the door frame of one landing encloses the controller inside a dedicated cabinet.

Three-panel side and two-panel central available.





3.11 Service Access Hatch

The construction of the access hatch and its door is by others. The door must be self-closing and lockable; 14" x 14" (350 x 350 mm) minimum hatch opening on guide wall, on rear of the governor, as shown in the chapter "DomusLift® General Overview" (see shop drawings for positioning).

3.12 Provisions by Others

- Provide one dedicated 230/1/60 (20 Amp, 3 wires and ground, with an NO auxiliary contact) and one dedicated 120/1/60 (6 Amp) power supply with lockable fused disconnects to the controller.
- Provide appropriate sleeves for the electrical conduit from the disconnects to the controller, and from the controller to the hoistway. Trenching may be required if the control room is not adjacent to the hoistway.
- Provide an enclosed, plumb and square hoistway with smooth interior surfaces, as per IGV Group SpA shop drawings. Provide fascia or furring of hoistway interior, where required (inspected and confirmed by elevator contractor prior to elevator installation).
- Provide required overhead clearance based on IGV Group SpA shop drawings.
- Provide required rough openings for door at each hoistway landing, as per IGV Group SpA shop drawings.
- Provide sufficient control-room area (if any) suitable to contain the elevator controller, UPS device and disconnect, based on IGV Group SpA shop drawings.
- Provide telephone connection to outside line for integration into elevator controller.
- Provide required pit depth and size, as per IGV Group SpA shop drawings.
- Provide substantial level pit floor slab to support loads indicated on IGV Group SpA shop drawings.
- Provide required structural support for guide rail fastenings, as per IGV Group SpA shop drawings.
- Provide required elevator and building permit(s) and/or engineering services, as per local authorities, prior to installation and after installation.
- Provide pit water proofing, drainage or sump pump, if required.
- Provide all finishes around landing door frames and landing entrances.
- Provide lamps, switches and receptacles for the lighting of the hoistway.



4 Installation Procedures

- Confirm that all site dimensions and conditions match those specified in IGV Group SpA shop drawings.
- Do not proceed with installation if the site dimensions and conditions are not acceptable.
- Elevator shall be installed by trained technicians in accordance with approved plans, specifications, IGV Group SpA installation instructions and local codes.
- Elevator contractor/installer shall carry out a final check of the elevator operation with the owner or owner representative prior to enabling elevator operation.
- Elevator may be subject to state, local and city approval prior to installation and subject to inspection after installation.



5 Maintenance

The DomusLift® elevator requires limited maintenance after installation. In order to keep safety and reliable operation at an optimal level, regular service and inspection are required. The maintenance must be carried out in accordance with manufacturer's instructions and only by skilled and licensed technicians. The Owner shall make sure that regular service and inspection are planned in a timely manner (please refer to Owner's Manual).

6 DomusLift® Aesthetic Options

6.1 Luxury Collection Cabs

The DomusLift® Luxury Collection offers a choice of exclusive cabs created in collaboration with renowned brands and designers. Please contact the locally-authorized dealer for the DomusLift® Luxury Collection brochure and further customization options.



DomusLift® Classic



DomusLift® MADE WITH SWAROVSKI® ELEMENTS



DomusLift® Light Touch by Giugiaro Architettura



DomusLift® Liberty Collection by Trend Group



DomusLift® Art Line



DomusLift® Gold with Leather Panel

Hoistway Structure



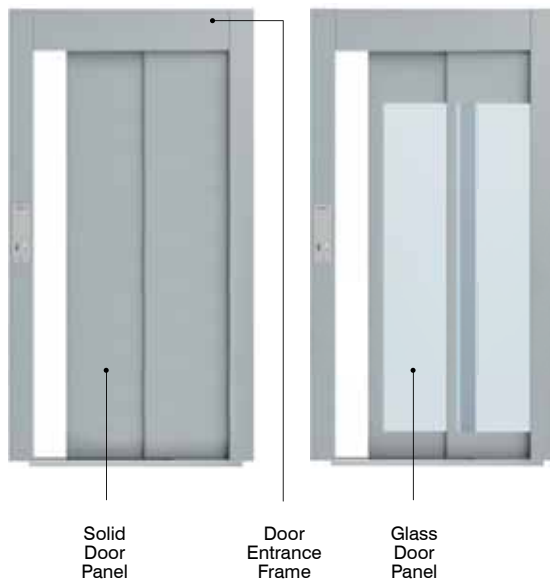
6.2 Create Your Personal DomusLift®, Select Desired Finishes

Customize your model according to your taste and style. The DomusLift® offers a wide selection of premium finishes and accessories in a choice of colors. This chapter will guide you into the selection of all materials available and creation of your personal DomusLift® elevator.

Cab Interior



Doors



7 DESIGN AND PLANNING GUIDE

Finishes and Features

7.1 Cab Interior Walls

■ PVC COATED STEEL

Available also for [DOOR PANELS](#) | [DOOR ENTRANCE FRAME](#) | [HOISTWAY ENCLOSURE](#)



DL81E - Wood effect



A90GTA



DL86 - Wood Effect



M12



B32SMA



G22SMA



G21SMA



R8SME



A32PP - Polished Effect



F2SMA



F42PPS - Brushed Stainless Steel Effect



F12PPS - Polished Stainless Steel Effect

STAINLESS STEEL

Available also for [DOOR PANELS](#) | [DOOR ENTRANCE FRAME](#) | [HOISTWAY ENCLOSURE](#)



Satin 127



Mirror 128



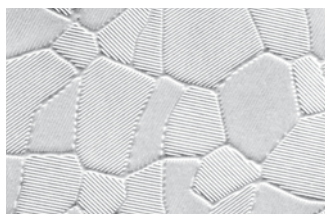
Leather 132



Linen 145



Chequered 131



Austenit



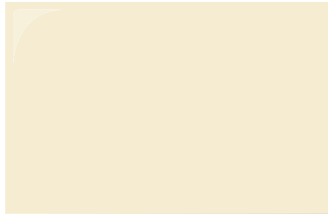
Blue Squared 150



Polished Gold 138

■ Standard

HPL LAMINATE POLISHED OR WOOD EFFECT
 Available also for [DOOR PANELS](#) | [HOISTWAY ENCLOSURE](#)



810 - Polished Effect



868 - Polished Effect



475 - Polished Effect



472 - Polished Effect



1901



1902



1903



1904



1678 - Wood Effect



1611 - Wood Effect



1379 - Wood Effect



1328 - Wood Effect



1609 - Wood Effect



358 - Wood Effect



658 - Wood Effect



1306 - Wood Effect

HPL DECORATIVE LAMINATE
 Available also for [DOOR PANELS](#) | [HOISTWAY ENCLOSURE](#)



2705 Marrakech Silver



2708 Marrakech Gold



2711 Marrakech Steel

LIBERTY MOSAIC
 Available also for [FLOORINGS](#)



Amber



Topaz



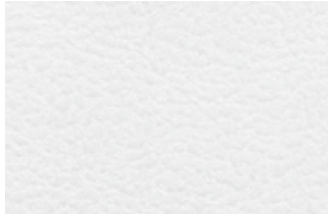
Diamond



Bronzite

VINYL FILM

Available also for [DOOR PANELS](#) | [DOOR ENTRANCE FRAME](#) | [HALL STATION PLATE](#) | [HOISTWAY FRAME AND ENCLOSURE](#)



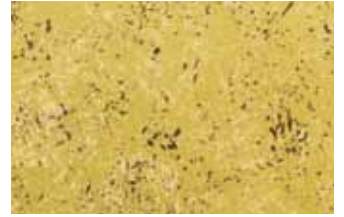
LE-1105



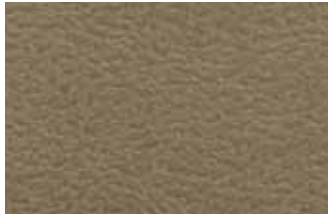
FA-1099



LW-1084



VM-452



LE-1109



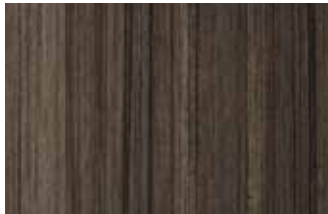
FA-690



WG-467



WG-947



FW-7007



WG-1147



WG-763GN - Polished Effect

LEATHER



Ivory



Silver

GLASS

Available also for [GLASS DOOR PANEL](#) | [HOISTWAY ENCLOSURE](#)



Transparent Neuter



Milk White



Smoked



Smoked Mirror



Bronze



Stopsol



Mirror

Other glass colors available upon request.

7.2 Floorings

■ ETERNAL VINYL



Eternal 12802
Elegant Oak



Eternal 11162
Tropical Beech



Eternal 10232
Dark walnut



Eternal 11052
Smoked timber



Eternal 13122
Grey painted wood

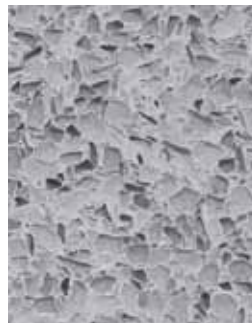
GRANITE



Granit Rocksolid 607



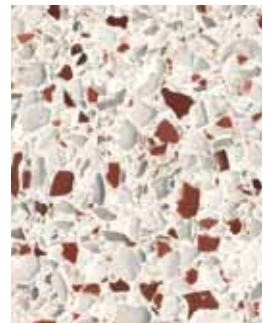
Granit Rocksolid 671



Granit T2402



Granit Titan Grey



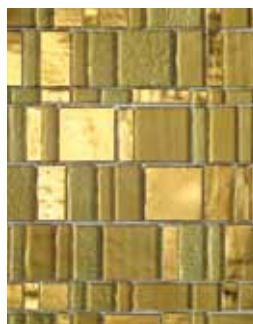
Granit Cristallino 451

LIBERTY MOSAIC

Available also for CAB INTERIOR WALLS



Amber



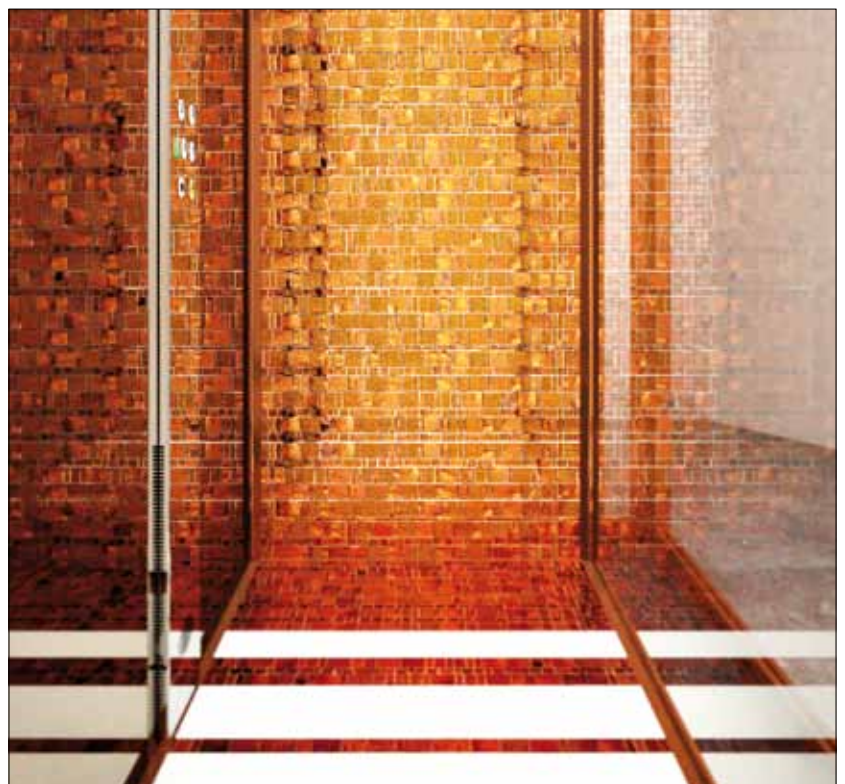
Topaz



Diamond



Bronzite



DomusLift® interior cab created with Liberty Mosaic (Amber) and White Granit Rocksolid

■ Standard

7.3 Versatile Finishes

■ ANODIZED ALUMINUM

HOISTWAY FRAME | DOOR FRAME | PANEL AND EDGES | CAB INTERIOR MOLDINGS | HANDRAILS



■ Natural Aluminum



Polished



Gold

RAL PAINTING

HOISTWAY FRAME | DOOR FRAME AND PANEL | CAB INTERIOR MOLDINGS |
HOISTWAY ENCLOSURE - *Other colors available upon request.*



9010



7001



5023



5011



6010



3003



Cherry



Decò Style White

WOOD EFFECT PAINTING

HOISTWAY FRAME | DOOR FRAME | CAB INTERIOR MOLDINGS

POLYESTER PAINTING

HOISTWAY FRAME | DOOR FRAME | CAB INTERIOR MOLDINGS



Nickel 14-091



Moka 14-100

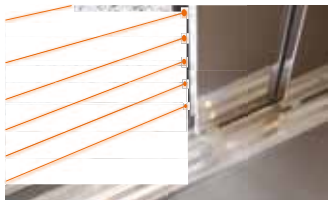


Copper 14-092



Black 14-005

7.4 Accessories



■ Full-height infra-red barriers



LED Lighting System embedded in the door frame



Enabling Key



Voice Synthesizer



Digital Frame



Air Conditioning System



Cylindrical Handrail - Available in satin, polished or gold stainless steel.



Flatbar Handrail - Available in polished natural or golden anodized aluminium.

■ Standard

7.5 Cab Operating Panel

FULL-HEIGHT MODULE
Stainless Steel



■ Satin 127

Mirror 128

Gold 138

W 7 7/8" x H 78" x D 3/4"
(W 180 x H 1980 x D 18 mm)

■ Standard

7.6 Hall Station

PLATE
Stainless Steel



■ Satin 127 Mirror 128 Gold 138

W 3 1/8" / 3 3/8", H 10 1/4" ÷ 12 3/8", D 1/16"
(W 80/85 x H 260÷320 x D 1.5 mm)

SUPERFLAT
Stainless Steel



Satin 127 Mirror 128 Gold 138

W 4" x H 9/16" ÷ 7/8" x D 7/8"
(W 101 x H 230÷430 x D 23 mm)

7.7 Display



Silver



Gold

ICARO
W 2 7/8" x H 2 3/4" x D 3/8"
(W 74 x H 70 x D 9 mm)

Available for
HALL STATION
and
FULL-HEIGHT
MODULE



Silver



Gold

TRICOLOR
W 3 1/4" x H 5 7/8" x D 1/2"
(W 83 x H 150 x D 14 mm)

Available for
FULL-HEIGHT
MODULE

7.8 Pushbuttons



■ 20.10
1 1/2" x 2"
(37 x 50 mm)



MAXI
2 1/8" x 2 1/8"
(55 x 55 mm)

Available for
FULL-HEIGHT
MODULE
and PLATE

7.9 Lightings

Ceilings available in PVC coated steel, stainless steel and vinyl films.



■ LED Spotlights



■ LED Spotlights



Embedded in Cab Moldings



Floral



Firmament

7.10 Doors

Standard finish: primed metal frame RAL 7001 | Optional finishes: RAL painting, PVC coated steel, stainless steel and vinyl films.

■ 2AT | 2 Telescopic Panels with side opening



3AT | 3 Telescopic Panels with side opening



2AO | 2 Panels with centre opening



WARRANTY

IGV warrants to Reseller that:

- For a period of 24 months from the date the Product is delivered to the Reseller (or its agent), to the original end user's site, or to storage because the job site is not ready for delivery (whichever is earlier), that such Product(s) will materially conform to the manufacturer's published specifications in effect as of the date of shipment and will be free from significant defects in material and manufacturing workmanship; and
- Reseller will receive good and valid title to the Product(s), free and clear of all encumbrances and liens of any kind.

IGV will supply a replacement part free of charge for any component part covered by the limited warranty which IGV determines to be defective. IGV shall be the sole judge of what constitutes defective manufacturing workmanship and materials. Such supply of a replacement part shall be the Reseller's and end user's sole and exclusive remedy. Any Product(s) or components thereof deemed defective must be returned to IGV. If IGV determines, in its sole discretion, that either the Product(s) or any component part is not defective in material or manufacturing workmanship, then the Reseller shall be liable for any and all costs incurred by IGV in the inspection of the Product or the component parts. This limited warranty is non-transferable except to the original end user of the Product, except with the express prior written consent of IGV, which may be withheld in its sole and absolute discretion.

This warranty is not intended to supplement normal maintenance service, and shall not be construed to mean that the manufacturer or IGV provides free service for periodic adjustment or lubrication due to normal use. Lack of proper maintenance will void this warranty.

WARRANTY LIMITATIONS

The warranties above do not apply where the Product(s) have:

- Been subjected to abuse, misuse, neglect, negligence, accident, improper testing, improper installation, improper storage, improper handling, improper use, abnormal physical stress, improper or inadequate maintenance, abnormal environmental conditions, acts of god, or use contrary to any instructions issued by the manufacturer;
- Been reconstructed, repaired or altered by persons other than the manufacturer or its authorized representatives;
- Been used with any third-party product, hardware or product that has not been previously approved in writing by the manufacturer; or
- Been used other than on residential property, or used on property for commercial or rental purposes;

In addition, the above warranties do not apply to the installation of the Product nor any parts used in the installation of the Product; the installer of the Product shall be solely responsible for all aspects of the installation.

Except for the express warranties set forth above, to the maximum extent permitted by applicable law, IGV makes no warranty whatsoever with respect to the Product(s), including any (a) warranty of merchantability, or (b) warranty of fitness for a particular purpose, whether arising by law, course of dealing, course of performance, usage of trade or otherwise. Reseller acknowledges that it has not relied upon any representation or warranty made by IGV, or any other person on IGV's behalf, except as specifically provided above.

LIMITATION OF LIABILITY

None of the seller group shall be liable for consequential, indirect, incidental, special, exemplary, punitive or enhanced damages, lost profits or revenues or diminution in value, arising out of or relating to this agreement, whether or not the possibility of such damages has been disclosed in advance by the Reseller or end user or could have been reasonably foreseen by the Reseller, end user or IGV, regardless of the legal or equitable theory (contract, tort or otherwise) upon which the claim is based, and notwithstanding the failure of any agreed or other remedy of its essential purpose.

IGV's total aggregate liability arising out of or related to this agreement, whether arising out of or related to breach of contract, tort (including negligence) or otherwise, shall not exceed the price of the defective part on which the alleged liability is based, provided, however, that IGV shall in no event be responsible for any loss or damage resulting from any cause beyond its control and/or caused by Reseller or third parties.

Without limiting the generality of the foregoing, Reseller assumes all risk and liability for the results obtained by the use of any Product(s), whether in terms of operating costs, general effectiveness, success or failure, and regardless of any oral or written statements made by IGV, by way of technical advice or otherwise, related to the use of the Product(s). Some States do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply in those States.



ELEVATORS SINCE 1966

IGV ELEVATOR US, INC.

Head Office & Showroom

7610 NE 4th Court

Suite 101, #18

Miami, Florida 33138

Ph 305 571 9818

igv-miami@igvlift.com

The Official US Importer of DomusLift® residential elevator.

www.domuslift.us