FREIGHT ELEVATOR / GOODS LIFT

VERTICAL SLIDING DOORS

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What is Freight / Goods?

Material transported by fork lift, hand truck, pallet jack, service cart, or vehicle.

There are many options to move freight/goods in a building.

Material Lift
- Some are non-passenger and limited use passenger rated devices
- Narrow market
- Either standard pre-engineered package or application design
- Ideally suited for an integrated conveyor systems, inventory retrieval, and mezzanine storage

Service Elevator
- Passenger elevator features
- Rugged interior for freight
- Pre-engineered
- Ideally suited for hotels, residences, office buildings, hospitals, etc. to transport lightweight materials, furniture, and low weight service carts

Freight Elevator
- Heavy duty
- Rated for non-public use
- Application specific
- Designed based on the stakeholders operation
- Ideally suited for retail, grocery, factory, distribution and warehouse, garage, museum, government, convention center, power plant, and more.
Freight Elevator/Goods Lift Door Features

**ROBUST CONSTRUCTION**
Vertical sliding Peelle doors are designed specifically to the capacity and loading method of the elevator, and are heavy duty and reinforced to accommodate hand truck, pallet and forklift loading.

Horizontal sliding doors are designed primarily for light duty applications. This can result in damage due to incidental impact from loading misuse and abuse.

**INDEPENDENT LOCKS**
Vertical sliding Peelle door interlocks are independent of the panels and located away from the opening, thereby protected on the door-guides.

Horizontal sliding doors, which sustain a high impact, may also suffer interlock misalignment, causing a shutdown.

**SEQUENCE OPERATION**
Vertical sliding Peelle doors permit loading only when the hoistway and car door entrance is fully open.

Horizontal doors are subject to incidental impact during loading, when the entrance is not fully opened, causing a shutdown.

**TRUCKABLE SILLS**
Vertical sliding Peelle door trucking sills are designed specifically to the capacity and loading method of the elevator, and are flat to allow smooth loading. Door guides are located in the hoistway, running vertically, so they are not damaged during loading, and debris cannot gather in the door guides.

Horizontal sliding door sills are subject to damage, premature wear and debris which affect door performance.

**SPACE SAVINGS**
Vertical sliding Peelle doors typically require 13in (330mm) of return space. This means more usable “building-space” for the owner.

Horizontal doors require a large amount of “return-space” for the panels.

**INDEPENDENT OPERATION**
Vertically sliding Peelle doors have Independent Operation with no mechanical coupling between the Car door and Hoistway door allowing for heavy duty loading conditions.

Horizontal sliding doors have a mechanical coupling between the Car door and Hoistway door which can separate during heavy duty loading causing an elevator shutdown.
**Class of Loading**

**Class A**  
General Freight Loading  
Where no item (including loaded truck) weighs more than 1/4 rated capacity

**Class B**  
Motor Vehicle Loading  
Automobiles, Trucks, Buses

**Class C1**  
Industrial Truck Loading  
Where truck is carried

**Class C2**  
Industrial Truck Loading  
Where truck is not carried, but is used for loading and unloading

**Class C3**  
Concentrated Loading  
No truck used, but load increments are more than 1/4 rated capacity. Carried load must not exceed rated capacity.

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**Design Diversity**

**LANDING DOORS**

**REGULAR TYPE**
- MIN. FLOOR TO FLOOR: 1.5 x OPENING HT + 150 mm [6 in]
- MIN. PIT: 0.5 x OPENING HT + 102 mm [4 in]
- RETURN SPACE: 330 mm [13 in] BOTH SIDES
- CAR CLEARANCE: 171 mm [6 3/4 in]

**PASSTYPE**
- WHEN FLOOR TO FLOOR IS LESS THAN 1.5 OPENING HT + 150 mm [6 in]
- MIN. FLOOR TO FLOOR: OPENING HT + 381 mm [15 in]
- MIN. PIT: 0.5 x OPENING HT + 102 mm [4 in]
- RETURN SPACE: 330 mm [13 in] BOTH SIDES
- CAR CLEARANCE: 171 mm [6 3/4 in]

**EXTENDED SILL**
- MIN. FLOOR TO FLOOR: 1.5 x OPENING HT + 150 mm [6 in]
- MIN. PIT: 0.5 x OPENING HT + 102 mm [4 in]
- RETURN SPACE: 330 mm [13 in] BOTH SIDES
- CAR CLEARANCE: 171 mm [6 3/4 in]

**TELCO UPPER HALF**
- MIN. FLOOR TO FLOOR: 1.25 x OPENING HT + 330 mm [13 in]
- MIN. PIT: 0.33 x OPENING HT + 102 mm [4 in]
- RETURN SPACE: 330 mm [13 in] BOTH SIDES
- CAR CLEARANCE: 171 mm [6 3/4 in]

**COMPOUND 2:1**
- MIN. FLOOR TO FLOOR: 1.66 x OPENING HT + 150 mm [6 in]
- MIN. PIT: 0.33 x OPENING HT + 102 mm [4 in]
- RETURN SPACE: 330 mm [13 in] BOTH SIDES
- CAR CLEARANCE: 171 mm [6 3/4 in]

**PASS TYPE**
- MIN. FLOOR TO FLOOR: 1.67 x OPENING HT + 406 mm [16 in]
- MIN. PIT: 0.33 x OPENING HT + 102 mm [4 in]
- RETURN SPACE: 330 mm [13 in] BOTH SIDES
- CAR CLEARANCE: 170 mm [6 3/4 in]
- MAX CAR LAP: 50 mm [2 in], BEFORE NOTCHING PLATFORM

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**REFERENCE A17.1-2000 HANDBOOK**

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**LANDING DOORS**

**BIPARTING**

**SLIDE-UP**

**TWO-SECTION**

**THREE-SECTION**

**CAR DOORS / GATES**

**SINGLE SECTION SLIDE-UP**
- MIN. FLOOR TO FLOOR: 2 x OPENING HT + 143 mm [5 5/8 in]
- RETURN SPACE: 457 mm [18 in] BOTH SIDES
- CAR CLEARANCE: 171 mm [6 3/4 in]

**TWO SECTION SLIDE-UP**
- MIN. FLOOR TO FLOOR: 1.5 x OPENING HT + 279 mm [11 in]
- RETURN SPACE: 460 mm [18 in] BOTH SIDES
- CAR CLEARANCE: 191 mm [7 1/2 in]

**THREE SECTION SLIDE-UP**
- MIN. FLOOR TO FLOOR: 1.33 x OPENING HT + 279 mm [11 in]
- RETURN SPACE: 460 mm [18 in] BOTH SIDES
- CAR CLEARANCE: 241 mm [9 1/2 in]

**CAR DOORS / GATES**

**SINGLE SECTION CAR GATE (MESH PANEL A17)**
- MIN. RAIL HEIGHT: OPENING HT + 1829 mm [72 in]
- CAR ENCLOSURE SETBACK: 114 mm [4 1/2 in]

**TWO SECTION CAR GATE (MESH PANEL A17)**
- MIN. RAIL HEIGHT: 1.5 x OPENING HT + 152 mm [6 in]
- CAR ENCLOSURE SETBACK: 165 mm [6 1/2 in]

**SINGLE SECTION SOLID PANEL (EN81)**
- MIN. RAIL HEIGHT: 2 x OPENING HT + 356 mm [14 in]
- CAR ENCLOSURE SETBACK: 165 mm [6 1/2 in]

**TWO SECTION SOLID PANEL (EN81)**
- MIN. RAIL HEIGHT: 1.33 x OPENING HT + 330 mm [13 in]
- CAR ENCLOSURE SETBACK: 229 mm [9 in]

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**Please contact The Peelle Company if your door size is greater than 4000 mm [13 ft] x 4000 mm [13 ft]**
Price Request Form

CUSTOMER DATA
Company __________________________
Address __________________________
Contact Person _____________________
Phone _____________________________
Fax _______________________________

GENERAL INFORMATION
Quantity of Elevators _____________
Number of Stops _________________
Door Quantity  Front ___________  Rear ___________
Opening Width _________________
Opening Height _________________
Car Capacity (kg, lbs) ____________
Pit Depth _____________________
Overhead _______________________

JOB SITE DATA
Job Name __________________________
Job Location _______________________
Elevator No _______________________
Estimated Ship Date _______________

APPLICABLE CODE
☐ EN81
☐ ASME A17
☐ OTHER _________________________

INSTALLATION
☐ New Installation
☐ Existing (replacement)

SHAFT / HOISTWAY CONDITIONS
☐ NEMA 1/IP20 Normal
☐ NEMA 4/IP54, IP56 Moisture
☐ NEMA 4X/IP56 Corrosion
☐ NEMA 7/9 Explosion
  Class ____Div. ____Group ____

CONTROL ROOM CONDITIONS
☐ NEMA 1/IP20 Normal
☐ NEMA 4/IP54, IP56 Moisture
☐ NEMA 4X/IP56 Corrosion
☐ NEMA 7/9 Explosion
  Class ____Div. ____Group ____

ENTRANCE FRAMES
☐ YES  Wall Thickness _____________
☐ NO

CAR ENCLOSURE
Platform Width ____________________
Platform Depth ___________________

WIRING PACKAGE
☐ Wiring Material Package

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