

Your ELEVATOR PLANNING GUIDE

www.bramaleaelevator.com



**BR▲MALEA
ELE▼ATOR LTD.**

providing custom elevating solutions since 1989

President's Message

After spending over 40 years in the elevator industry, I feel very privileged to be writing this message as Owner & President of Bramalea Elevator Ltd. This is a special time in our company's history as we celebrate over 25 years providing high quality freight lifting solutions. Since beginning this journey, we have spent the past quarter century building our brand, which has now become synonymous with our **commitment to helping our clients grow in their business productivity.**

As a company, we have seen much change over the years. For example:

We have nearly quadrupled our workforce and employ highly trained engineers, mechanics and specialized workers from around the world. We have become one of the leading manufacturers of Freight Elevators in Canada. We have expanded our presence nationally and internationally through major clients across Canada and the United States.

It is also important to note what has not changed at Bramalea Elevator, namely our commitments to providing exceptional client service and providing a lineup of products that exceeds the Elevator Code of Safety CSA B44 & ASME A17.1

Looking ahead, we are focused on accelerating the execution of our growth strategy while continuing to build on the strength of our brand — helping our clients improve their productivity and bringing positive change to the communities in which we work and live. I am incredibly excited about this journey and truly believe the best of Bramalea Elevator Ltd. is yet to come.



2012-2015



OWNER & PRESIDENT JIM NINNESS

First Steps in Planning Your Bramalea Elevator

If you need material lifted between fixed levels in a building with hoisting equipment installed in a permanent position, you will need to comply with the Canadian Elevator Safety Code. The applicable code for Canada is the Canadian Standards Association, CSA – B44 Safety Code for Elevators and Escalators. The applicable code for the United States is the American Society of Mechanical Engineers, ASME A17.1 Safety Code for Elevators and Escalators.

Individual jurisdictions will adopt preferred version of the code in full or in part, so it is essential to know the law in your province/state.

Your lifting application will be defined by one of the following classes of elevating device governed by these codes:

- » Dumbwaiter
- » Material Lift
- » Freight Elevator
- » Automobile Elevator



Common lifting situations not governed by CSA-B44/ASME A17.1 include:

- » Devices having travel of 2000mm or less and used only for the transfer of material (no riders)
- » Mobile lifting equipment such as forklifts
- » Lifting devices that are part of a fully automatic conveyor or material handling system
- » Cranes and hoists with unguided hooks or slings used only for the transfer of material

Choosing the Right Bramalea Elevator

There are a few things to consider when deciding which Bramalea Elevator product is the solution you are looking for. Here are some questions to ask yourself before making the right selection:

1. What is the size (width x length x height) and weight of the material I plan to lift?
2. How do I plan to load the material on and off the lift? (See Loading the Elevator Pg 4)
3. How many floors will the lift serve and what is the floor to floor distance?
4. What are the orientations of my entrances?
5. Are there limitations to the space at the top and bottom of the hoistway?
6. Do I require a rider on the platform?
7. Does the hoistway need to be fire rated?
8. Are there any ambient conditions (weather, temperature, explosion protection, etc.) I have to consider?

Loading the Elevator — Class Loading

How the elevator is loaded is an important factor to consider when deciding on the class of loading.

Class A (general freight loading):

Where the load is distributed, the weight of any single piece of freight (including hand truck, if used) is not more than 25% of the total rated load of the elevator and the load is handled on and off the car platform manually or by means of a hand truck.

Class B (motor vehicle loading):

Used solely to carry motor vehicles up to the rated load of the elevator.

Class C1 (industrial truck loading):

An industrial vehicle may be used to load and unload the elevator. The combined weight of the vehicle and load cannot exceed the rated load of the elevator and may be rolled onto the platform as a single unit.

Class C2 (industrial truck loading):

During loading and unloading, maximum load on the platform may be up to 150% of the rated load, which allows an industrial vehicle to load car with freight weighing up to the rated load of the elevator.

Class C3 (heavy concentrated loading):

Compared to Class A, the weight of the object is more than 25% of total capacity.

Types Of Bramalea Elevators And Their Applications

Material Lift

These devices are used to carry heavy cargo between two to three fixed levels and permit authorized freight handlers to ride. They are recommended in lieu of Freight Elevators, when travel does not exceed 5,000mm (200") and where limitations with respect to speed and operation controls are not a concern.

These lifts must not be accessible to general public, cab size is unrestricted and load ratings are classified as A, B or C. With no requirements for cab gates or a ceiling, minimal pit depth and lenient rules regarding hoistway enclosure and machine rooms, Material Lifts provide a less expensive alternative to freight elevators without sacrificing safety efficiency or reliability.



Freight Elevator

These devices are used to carry heavy cargo between multiple levels and permit authorized freight handlers to ride. They are recommended when travel exceeds 5,000mm (200"). Controls are automatic operation and travel speed is unrestricted. These devices must not be accessible to the general public, cab size is unrestricted and load ratings are classified as A, B or C.

Automobile Lift/Elevator

These devices are classified as Freight Elevators with a Class B loading. They offer safe and cost-effective solutions to transport motor vehicles between multiple levels. Using an Automobile Lift/Elevator in lieu of a ramp or other means will lead to significant space saving thus enhancing the freedom for design and value of the building. Automobile Elevators offer a convenient solution to parking problems faced in crowded city centres and can help save on the purchase of costly land

in commercial areas. Automobile Lifts/Elevators are well suited for a variety of scenarios including parking lots, condominiums, car dealerships, showrooms and private residents.





Dumbwaiter

These devices are an efficient way of transporting smaller material between different levels. They are a versatile product used primarily in hospitals, laboratories, restaurants, libraries and stores. Bramalea Elevator provides Dumbwaiters that cater to all suitable requirements. Additionally, we have solutions for more complex industrial or institutional applications involving dust proof, flameproof and explosion proof installations.

Wheelchair Lift (Vertical Platform Lift)

These devices are designed to safely transport persons in a wheelchair, plus an attendant, one or more levels in public and commercial buildings. Bramalea Elevator has taken the design one step further by designing the lift so that no pit depth is required. This opens up greater design opportunities for architects and builders when pit depth is a concern.

Turnkey Options

Bramalea Elevator has designed the perfect solution when constructing a hoistway is not possible. We will provide the hoistway for you. Known as a Free Standing-Self Supporting Hoistway Structure and Enclosure, the name speaks for itself. We provide a steel structure enclosure around the elevator which does not put any load on the building/mezzanine. As well, no building construction is required. As with our hoistway lifts models, our free-standing structure is built to be reliable and offers a safe and convenient way to transport freight with a rider between fixed levels.

Will Standard Features Address Your Needs?

All Bramalea Elevator products incorporate the following high-quality, built-to-last features and considerations:

Capacity

Our range of products allow us to offer the option of any weight capacity. Whether you plan to lift 100lbs or 20,000lb, we have the system to do so.

Elevator Cab Sizes

Each of our products comes in various cab sizes. We will customize the size based on your specific lifting requirements.

High Quality Design

Our directly coupled car sling assembly provides an unmatched level

of robustness and our innovative guide rail system ensures a smooth, vibration free and quiet ride from start to finish. Our 2-speed valve provides soft starts and stops with smooth flow for fragile loads, while a 2-way leveling controller provides consistent and accurate leveling to the landing for smoother embarking/disembarking.

High Quality Parts

All our parts and components are sourced from reliable and reputable vendors. Since we sell our systems across North America, we use only non-proprietary components, which allow our elevators to be maintained by local service providers.

Environmentally Conscious Design

Our hydraulic cylinders are not buried in-ground beneath the platform, but instead are coupled to the cab assembly. This allows for easier and quicker detection of potential corrosion or leaks. This greatly reduces the chance of contaminating ground soil, thus eliminating any negative environmental impact.

Safety as a Top Priority

Every product strictly adheres to the North American elevator codes,

ASME A17.1/CSA B-44 safety standards. This means that all our installations are inspected and certified by the local provincial/state authority. Our clients are guaranteed an accredited system, with minimal failure rates and safety issues over many years.

Our design and manufacturing teams work together during the testing phases for our products to monitor component performance in a range of environmental conditions. This process helps to ensure that our systems surpass the expected performance standards and achieve reliable operation over decades.

Will Your Elevator Require Customized Features?

Bramalea Elevator has built a solid reputation of offering tailored, customizable solutions to meet the specific requirements of a wide variety of commercial and industrial businesses (see our list of Featured Clients.) Depending on your businesses' particular needs, you can improve the function and durability of your next Bramalea Elevator by considering any of the following value-added optional features:

Elevator Cab Finishes

We offer a variety of finishes to the cab assembly such as enamel painted steel, galvanized steel, stainless steel & aluminum.

Extreme Environments

We offer various design features which allow our systems to be installed in various environments such as extreme temperatures, high moisture and variable weather. We can design each elevator to be waterproof, dust proof, spark proof and resistant to explosions.

Building Limitations

Space can be limited on a construction project. Our systems can be designed for Zero pit and limited overhead situations, plus can be designed for habitable space below hoistway shaft, such as a lower level or parking garage.

Door Options and Orientations

Door options include manual swing, vertical bi-parting (manual or automatic), vertical slide up (manual or automatic) & horizontal sliding. Doors are custom made to match width of platform to create barrier free path for freight on and off the cab. Doors are fire rated and come with electro-mechanical interlocking to prevent opening when cab is in motion. Doors can be on one or both sides of the cab, allowing a through cab design.

Delivery, Installation, Service and Support



Delivery

We work closely with each client to determine the most effective timeline for delivery. Delays and setback are commonplace on construction sites, so working with a flexible schedule is important. Thus we offer on-time delivery with flexibility to suit our customer needs.



Installation

We hire only dedicated, licensed installation mechanics with the experience and knowledge to install our systems in a timely, cost-effective manner, producing a reliable device, guaranteed to last the lifetime of the building. We utilize the latest tools to minimize disruption to properties during our installation period, and we work closely with building owners to ensure they and their staff understand the installation process, thereby ensuring a seamless transition once the elevator is operational.



Service

To deliver quality service, we provide regular maintenance visits with our in-house service fleet, consisting of dedicated licensed service mechanics providing round the clock service (select Canadian Cities). We can also help to set up a service contract with a local licensed elevator contractor outside of our service regions. This ensures that our devices work at peak performance at all times. The result: no unforeseen breakdowns, which means greater efficiency and productivity for your company. It also achieves the ideal level of safety and peace of mind within your property.



Support

We are committed to delivering the best technology and quality to every customer. All products come with a one year warranty. We have a fully stocked parts department that is only a phone call away. We also offer on-site training or instructional resources for jobs not installed or serviced by Bramalea Elevator.



Our Featured Clients

As one of the leading manufacturers of freight elevators in Canada, and with builders and installers across Canada and the United States, Bramalea Elevator is proud to have serviced the following sample of notable businesses:

USA

New York State Transportation Department,
Brooklyn, NY

Northern Kentucky University, Otis Elevator,
Cincinnati, OH-Shake Shack (various locations)

Broadway Market, Seattle, WA-Club Nautica,
San Juan, Puerto Rico

CANADA

Automotive

General Motors Production Facility-Open
Road Audi-Honda-Harley Davidson-Lexus-
Mercedes Benz-Toyota-Volkswagen-Volvo-
Porsche

Industrial

Apotex-Cadbury-Effem foods-Estee Lauder-
Mapai-Potash-Quebecor-Worldcom MCI-
Xerox

Commercial

Canadian Tire-Home Hardware-Walmart-
Michaels-Shoppers Drug Mart-Vista Print-
Canada Post-All Canadian Storage -Iron
Mountain-Dollarama-LCBO-BC Liquor-
Loblaws-Longo's-Metro-Sobeys-Whole Foods-
eBay-Mountain Equipment Co-op-Sport
Chek-Louis Vuitton-Polo/Ralph Lauren-
Gap-Adidas-Victoria's Secret-Holt Renfrew

Restaurants/Food Plants

Tim Hortons-Great Canadian Bagel-

Addams Foods-Bondhead Gold Resort-
Hidden Bench Vinyards-Joey's Restaurant-
Labatts-Maple Leaf Foods-Ontario Food
Terminal-T & T Supermarkets-Cactus Club-
Whitespot

Museums/Event Space

Art Gallery of Ontario-Royal Ontario Museum-
Calgary Zoo-Ryerson College of Image & Art-
Stratford Festival

Institutions

George Brown College-Ministry of
Environment-Niagara Police Service HQ-
Toronto District School Board-Trinity
College-University of Guelph-McMaster
University-Royal Canadian Military College



Our Proud History

Bramalea Elevator Ltd. was established in 1989 as a manufacturer of high quality, value priced Material Lifts (previously called Freight Platform Lifts) for commercial and industrial applications.

In the mid 1970's, Owner & President Jim Ninness participated in drafting changes to the Canadian Elevator Safety Code CSA B44. He and others in the industry recognized a need for a product that could provide an economical alternative to the Freight Elevator without compromising safety and reliability. As Engineering Manager at that time for Blue Giant Equipment, he oversaw the design and implementation of the first material lifts in Canada.

Having brought this experience with him to Bramalea Elevator Ltd., and with the help of a dedicated and experienced staff, the company has become the industry leader in the production of Freight Elevating Devices, setting the benchmark standard within the industry today. Bramalea's patented design is robust, sturdy and guaranteed to rise up to the challenge of any environment. This reputation for quality has helped to form lasting relationships with many of the biggest industrial businesses and landmark commercial and institutional buildings within Canada, USA, and many other countries around the world.

Our Certifications & Memberships

Bramalea Elevator Quality Guaranteed

We strive to be the leader in vertical freight lifting solutions. Our clients can rest assured that all Bramalea Elevator products meet all stipulations/regulations of the North American elevator codes and Safety Standards of North America. Every system we install is inspected and commissioned by the regulating provincial/state authority. We ensure all our products and equipment are certified as per the Canadian Standards Association (CSA), all fabrication is done as per the Canadian Welding Bureau (CWB), we hire only licenced professional engineers, our technicians are licenced under the Elevating Devices Act, and we are registered with the Workplace Safety and Insurance Board (WSIB).

We are a proud member of the Canadian Elevator Contractors Association (CECA) and the National Association of Elevator Contractors (NAEC).



Frequently Asked Questions

How much do your elevating systems cost?

The cost of each of our lifts and elevators is dependent on a number of factors: cab size, weight capacity, number of entrances, travel distance, jobsite parameters (just to name a few). In order to determine an accurate price, please contact our sales team or go to our website (www.bramaleaelevator.com) to request a free no-obligation quote. This planning guide will help you with the questions our sales reps will ask to help determine the right product for you.

How big (or small) are your elevators?

There are no limitations to size. Our material lifts, freight elevators and auto elevators can be as big or as small as you need them to be. There is also no limitation to the capacity. Whether you need to move a 1,000lb pallet of dry goods, or a 20,000lb fully loaded fork truck, we have a solution for it.

I see the terms 'lift' and 'elevator' used throughout your literature. Do the two terms mean the same thing?

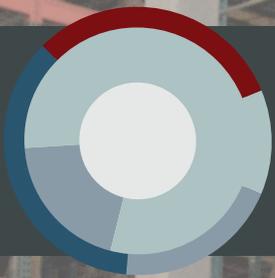
If you were in Britain then yes, elevators are called lifts. In North America however, the two terms are different. A Freight Elevator and a Material Lift (formally known as a Freight Lift) are similar in a few aspects. They both fall under the national Elevator Codes, both are built for the transportation of heavy cargo, both are designed to withstand tough working conditions and both allow an attendant to travel on the elevator with the goods. That is, however, where the similarities end. The material lift is the economical choice if the parameters are met. Otherwise, the Freight Elevator is the way to go.

Why can I buy a 'Material Lift' in the USA for a cheaper price?

In the USA the term 'Material Lift' is another name for Vertical Reciprocating Conveyor (VRC). A VRC will move products from one elevation to another, however they are not considered elevators as they transport material only. Therefore, the elevator safety codes do not apply. VRC's have their own national code (ASME B20.1) and are specifically exempt from the national elevator code ASME A17.1. The ASME B20.1 code does not comply with the minimum safety requirements for elevating devices in Canada, thus has not been adopted by the Canadian Elevator Code CSA B44. Moral of the story, a VRC is not a legal elevating device in Canada.

	Material Lift	Freight Elevator
Travel Distance Limitations	Up to 5,000mm (200 in) allowed (some provinces/states allow up to 7,600mm (300 in))	Hydraulic design is limited to 5-7 floors.
Speed Limitations	30ft/min maximum	Unrestricted (50 -100 ft/min typical)
Operation	Constant Pressure Push Buttons	Options include: a) Constant Pressure Push Buttons b) Automatic Push Buttons
Capacity Limit	No limit	No limit
Cab Size Limit	No limit	No limit
Door Type	Options include: a) Manual swing doors b) Vertical bi-parting or vertical slide up (manual and power operated)	Options include: a) Manual swing door b) Vertical bi-parting or vertical slide up Door (manual and power operated with automatic feature)
Rider Allowed?	Authorized Handler	Authorized Handler
Class of Loading	A, B and C	A, B and C
Other Requirements	No cab gate or cab ceiling required with manual swing doors Reduced Pit Depth and Overhead Space No designated room required for motor and controller.	Cab gate(s) required Cab ceiling required Added safety features required include: Alarm bell, 2-way communication device, Emergency lowering with battery power or emergency power feed from building supply, Firefighters service controls, Fire alarm initiative devices inside machine room, hoistway shaft and on all floors (to suit local building codes) deep pit for clearance plus drain and sump pump

COMPARE THE DIFFERENCES BETWEEN A MATERIAL LIFT AND A FREIGHT ELEVATOR



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Questions?



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