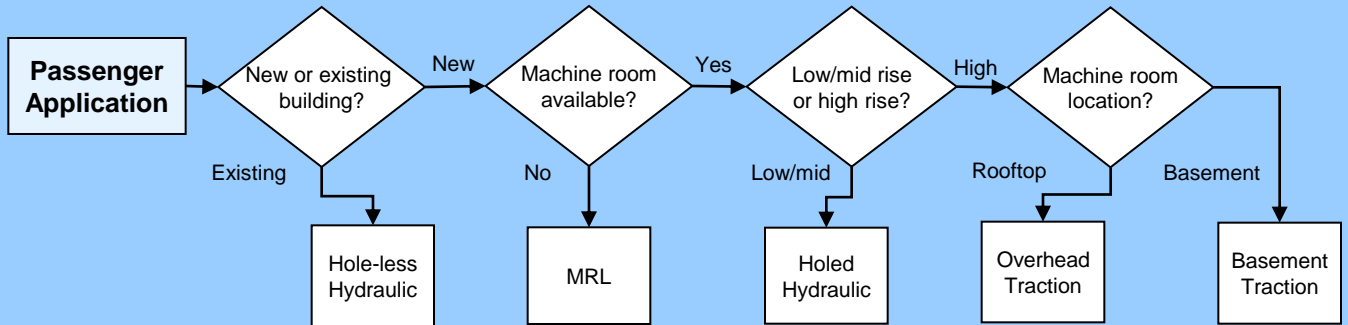
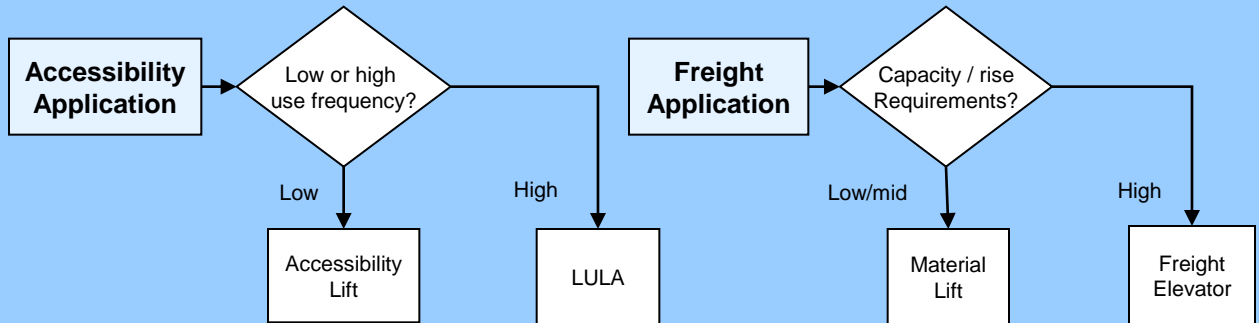


Passenger Elevators



	Hole-less Hydraulic	Machine Room-Less (MRL)	Holed Hydraulic	Overhead (rooftop) Traction	Basement Traction
Elevator Code	CSA-B44				
Typical Applications	<ul style="list-style-type: none"> • Malls / Plazas • Mid-rise buildings • Hospitals • Universities • Colleges • Parking garages 	<ul style="list-style-type: none"> • Malls / Plazas • Mid-rise buildings • Hospitals • Universities • Colleges • Parking garages 	<ul style="list-style-type: none"> • Malls / Plazas • Mid-rise buildings • Hospitals • Universities • Colleges • Parking garages 	<ul style="list-style-type: none"> • High-rise towers • Office towers • Hospitals • Universities • Colleges 	<ul style="list-style-type: none"> • Mid-rise buildings • Office towers • Hospitals • Universities • Colleges
Installation Cost	Low - Medium	Medium - High	Low - Medium	Medium - High	Medium - High
Safety Features	Infra-red light curtain / Emergency cab lighting / Emergency phone				
Speed	0.40 – 0.75 m/s	0.75 – 1.75 m/s	0.40 – 0.75 m/s	0.75 – 2.25 m/s	0.75 – 1.75 m/s
Capacity	910 – 2,500 kg	910 – 2,050 kg	910 – 2,500 kg	910 – 2,500 kg	910 – 2,500 kg
Maximum Floors	6	18	6	31	10
Maximum Travel	15 m	50 m	15 m	85 m	30 m
Cab Size	2.36 – 5.19 m ²				
Hall Entrances	Horizontal sliding (single speed, two speed or centre opening depending on elevator size)				
Car Entrances	Horizontal sliding (single speed, two speed or centre opening depending on elevator size)				
Maintenance Costs	Low - Medium	Medium - High	Low - Medium	Medium	Medium - High
Advantages	Cost effective for retrofit sites Easy to maintain Good ride quality	Most energy efficient No machine room Excellent ride quality	Cost effective for new construction Easiest to maintain Good ride quality	Proven design for tall buildings Energy efficient Excellent ride quality	Alternate machine room location Energy efficient Excellent ride quality
Disadvantages	Maintenance more complex than for a holed hydraulic	Most complex and expensive to maintain	Not suitable for groundwater or bedrock sites	More expensive to install and maintain than hydraulics	More expensive to maintain than overhead traction

Accessibility & Freight



	Enclosed Vertical "C" Platform Lift	Limited Use/ Limited Application		Material Lift Type "B"	Freight Elevator (hydraulic/traction)
Elevator Code	CSA-B355	CSA-B44		CSA-B44	CSA-B44
Typical Applications	<ul style="list-style-type: none"> • Churches • Funeral homes • Municipal buildings 	<ul style="list-style-type: none"> • Schools • Low-rise buildings • Small office buildings 		<ul style="list-style-type: none"> • Industrial buildings • Municipal buildings • Restaurants 	<ul style="list-style-type: none"> • Industrial buildings
Installation Cost	Low	Medium		Medium	High
Control Type	Constant Pressure	Automatic		Constant Pressure	Automatic
Restricted Access	Yes	No		N/A – No public access	No
Attendant Required	Yes	No		No	Trained operator
Safety Features	<ul style="list-style-type: none"> • Manual lowering • Emergency alarm • Emergency stop • Emergency lighting 	<ul style="list-style-type: none"> • Manual lowering • Infra-red light curtain • Emergency lighting • Emergency phone 		<ul style="list-style-type: none"> • Manual lowering • Emergency alarm • Emergency stop • Emergency lighting 	<ul style="list-style-type: none"> • Infra-red light curtain • Emergency lighting • Emergency phone
Speed	0.15 m/s	0.15 m/s		0.15 m/s	0.15 m/s and up
Capacity	454 kg	635 kg		As required	As required
Maximum Floors	4	7		2	Call Delta
Maximum Travel	7 m	9 m		5 m	Call Delta
Cab Size	Maximum 2.00 m ²	Maximum 1.67 m ²		N/A	N/A
Hall Entrances	Swing Door (1.2 m max)	Two speed sliding		Single / double swing	Vertical bi-parting
Car Entrances	None	Two speed sliding		None	Vertical sliding
Maintenance Costs	Low	Medium		Medium	High
Advantages	Low cost accessibility Shallow pit	Fully automatic Shallow pit		Cost effective solution Shallow pit	Higher capacity Faster speeds
Disadvantages	Not compliant with new AODA requirements	Not compliant with new AODA requirements		Relatively slow with limited door sizes	Requires increased pit depth & overhead