

LML LIFT CONSULTANTS
VERTICAL TRANSPORTATION INDUSTRY NEWS

LIFTBITS!



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WHATS BEEN HAPPENING AT LML?

In February this year we officially launched operations in Queensland and appointed Rod Smith as our Brisbane based Manager. Rod has over 35 years of Vertical Transportation experience and an extensive knowledge of safety enhancement products for Lifts and Escalators.

Whilst LML have always provided our services Australia wide, we know the benefits of having local subject matter experts available and readily accessible to our Clients.

We are also pleased to announce that industry 'giant' Jim Caruana has joined our Melbourne team.

With over 44 years VT experience, Jim expertise will be an invaluable asset to us. Jim is currently managing some major Projects for a number of clients.

In October 2017 LML attended Interlift, the Annual Trade Fair for Elevators, Components and Accessories in Messe Augsburg, Germany and more recently the World Elevator Escalator Expo in Shanghai China. More about that on the next page.

Finally, August 2018 saw us celebrating the LML 5 year anniversary.

We marked the occasion with a function and Information Session at Collins Quarter. Thank-you to all of our valued Melbourne clients for attending.



Jim Caruana - Melbourne



Rod Smith - Brisbane



WORLD ELEVATOR ESCALATOR EXPO - CHINA MAY 2018

In May LML attended the 2018 World Elevator Escalator Expo "WEE", in Shanghai, on a "fact finding" mission to take a look at the latest and greatest products and technologies, to keep ourselves, and in turn our Clients informed.

So what does the future of elevators and escalators look like?

We saw an increased focus on 'predictive maintenance' and IoT (Internet of Things) technology, designed to decrease asset repair times.

Machine-Room-Less equipment is on the increase, with one manufacturer offering speeds up to 3.5m/s (with 4.0m/s likely in the not too distant future).

Destination Control Systems (DCS) continue to rise in popularity with more manufacturers focusing on the peripheral side of the product,

making them more appealing in terms of aesthetics and choices of finishes available. This includes user friendly screens where the passenger would simply select 'pool', 'gym' or 'shopping', for example, to be taken to the desired destination.

We saw the showcasing of the trolley escalator, designed to improve passenger safety and efficiency.

For more on our visit to WEE visit our blog at <https://www.lmliftconsultants.com.au/blog/lmlift-consultants-at-the-world-elevator-escalator-expo-2018>



New Technologies at the Shanghai Elevator Escalator Expo 2018

Exhibitors at WEE were showcasing "facial recognition" technology at the landing to call the Lift securely, and once inside the Lift "voice recognition" technology to select the destination. There is also technology being developed which will be capable of detecting the language being spoken automatically, which would be a really useful feature in many applications such as airports for example.

In addition to this, there are now manufacturers including interactive software to enable passengers to ask things such as... "what is the weather like", "where is the food court", "whats the latest news". customised for the building, so it also has the ability to be a directory or used for marketing purposes.

Traditional mechanical push buttons may just be a thing of the past in the very near future.

LML Lift Consultants

NBN EDUCATION SESSIONS FOR STRATA AND FACILITY MANAGERS

One of our major functions as an independent Consultancy is Vertical Transport Education. Every year we are engaged by Strata and Facility Managers to present to their team ways in which they can enhance their relationship with the lift provider and better understand Vertical Transportation management. Many of our recent sessions have had a focus on new technology and connecting Lifts to the NBN.



CONNECTING TO THE NBN

The telephone is an integral part of your lift's safety system which allows trapped passengers to call for help. The emergency telephone must be operational at all times, even in a power outage.

Many buildings no longer have a landline that works during a power outage once they are connected to the nbn™ network.

To ensure the lift's passengers can call for help to a permanently attended location, buildings which receive these connection types will need to upgrade their lift's emergency telephone system.

Not doing so could be a breach of obligations under workplace health and safety legislation and the Building Owners, Managers and Bodies Corporate responsibilities.

The majority of Lift Phones installed in the Australian Market are 'Line-powered' This means that they use the existing 48v DC power that runs on the copper wire network to operate.

While the existing copper network usually works during a power outage due to telephone exchanges having their own backup power, the nbn™ network uses fibre optic technology in parts of the network, which cannot carry power.

When we disconnect the copper network and switch over to the NBN network this power will no longer be available and Line Powered Lift Phones will no longer work.



WHAT ARE MY OPTIONS?

- Your lifts phones are connected to permanently manned location internal to the building and has a back up power supply - do nothing.
- Replace your existing communication with a solution from the lift company.
- Replace your existing communication system with a non-proprietary solution from a range of independent suppliers.
- Fibre to the building (FTTB), Fibre to the Node (FTTN) and Fibre to the Premises (FTTP)

HOW LML CAN HELP

We can provide advice and guide you towards the best option for the buildings you manage.

At no charge to the client, we attend their workplace, present and provide advice to small or large teams.

CONTACT US

**1300 001 565
admin@lmliftconsultants.com.au**

LIFT AUDITS THE GOOD THE BAD THE UGLY

Some findings from a few of our recent Lift audits and why we highly recommend the independent auditing of Lift and Escalator equipment.



A



B



C



D

A. The speed governor tension weight sheave in the pit which is “bottoming” out on the thread of a bolt and the governor rope also found to be rubbing on the bolt. This could prevent the safety-gear from activating as designed and to make things worse, the electrical ‘cut-out’ safety switch was adjusted into a position where it could not operate. *This job was less than 12 months old at time of inspection.*

B. Signage placed in a recently installed Lift, where the type of Lift installed was not “fit for purpose” and couldn’t meet the number of “starts per hour” requirements placed on the system. The Lift as installed is a “Limited Mobility” Lift, required to be keyed off (not operating in automatic mode) and for infrequent use only. The building is now stuck with this Lift as the liftwell dimensions won’t allow for the installation of a passenger Lift.

C. Badly rusted steel wire hoisting ropes requiring full replacement.

D. The fixings on a frame type counterweight, which were all found to be extremely loose on both sides (with incorrectly positioned wedges). The weight of the counterweight is made up of the weight of the Lift car plus approximately 50% of the rated load. This frame type counterweight relies on these fixings to securely and safely hold a large amount of weight.

Click to head over to the LML Blog to see more from our The Good, The Bad, The Ugly collection.

ACCIDENT PREVENTION in the VERTICAL TRANSPORTATION INDUSTRY

Escalators require very safe riding practices and behaviours. Unfortunately in many instances, accidents occur due to unsafe riding practices. These often occur in shopping centres, entertainment complexes and large infrastructure sites including Airports and Railways

Under normal riding practices the risk of falling over the balustrade is almost negligible. Unfortunately however, there has been numerous serious incidents or fatalities (globally), due to unsafe riding practices on escalators or moving walks.

This has included but is not limited to dangerous practices such as persons sitting on handrails and riding them to planking across handrails. One of the most serious risks to passenger safety comes with the risk of falling over the Balustrade to ground below on open Atrium arranged escalators or moving walks.

Dimensions of balustrades under current Australian Standards state the inclined section the vertical height from step nose or pallet surface to top of the handrail shall be not less than 0,90 m and not exceed 1.10 m. The balustrades also are to have no parts on which a person would normally stand.

The Australian Standards also state that appropriate measures shall be taken to discourage people from climbing on the outsides of the balustrade if there is a danger of people falling from them.

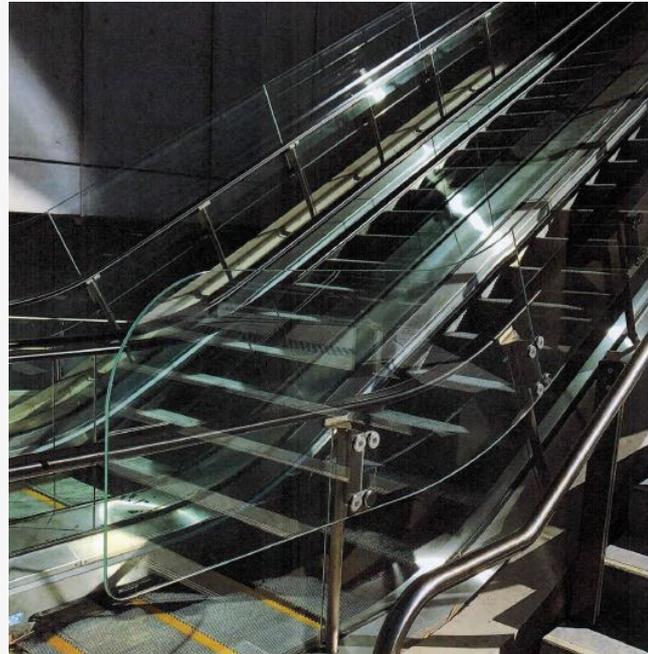
To alleviate this risk it is possible in “most” situations to install extended “escalator fall protection balustrades” on the outside decking of the escalator, reducing or eliminating the risk of persons falling over the balustrade from unsafe riding practices.

These extended fall protection balustrades may be toughened glass or poly-carbonate and supported in stainless steel or aluminium framing, dependent on installation restraints and requirements.

Of course any “escalator fall protection barricade” would need to meet the requirements of the Building Code of Australia, structural limitations if fastened to escalator truss, deflections, loading's, panel stress and support frame stresses etc.

Contact us on 1300 001 565 for further information

Retrofitting of Extended Escalator Balustrade



When riding escalators or moving walks passengers should always:

1. Stand away from the sides (skirting) and face forward.
2. Keep any loose clothing clear of steps and skirting sides.
3. Keep a firm grip on the handrail.
4. Re-position your hand slowly if the handrail moves ahead or behind the steps. (Handrails are designed to run at same speed as the steps).
5. Do not rest objects you are carrying such as your handbag or parcels on the handrail.
6. Stay in the moment and pay attention while riding.
7. Do not lean against the side of the escalator or moving walk.

LML LIFT CONSULTANTS

OPTIMISING THE PERFORMANCE,
RELIABILITY AND SAFETY OF
YOUR VERTICAL TRANSPORTATION



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*" Vertical Transportation is our passion, in fact,
it's all we've ever done "*