

LIFT
INSTALLATION
MLA overview

BICC seminar
17th March 2006

Different Views ...

DANGER

ELEVATOR

SHAFT

Introduction

growing industry in Malta because
of higher buildings

of lift installers available – build-
ers are spoilt for choice

ENHANCES the building and is n-
ot evil – any development of 3 f-
loors not make sense without a li-
ft. Its are the same!

Not all lifts are the same

Some lifts require different shaft
dimensions from one supplier to the next

Therefore, you cannot change

OR the lift half-way through

The type of lift chosen has a bearing

on the

Machine room is a requirement

Therefore, foresight will limit the choice

and increase the price.

Applications of lift install

s proposed without a proper
tion, you could:

he wrong location for the machine

ding the wrong kind of structure

utting yourself to an electrical load

uld do with less – hefty implications

63 Amps

a disservice to the end users

e expectancy of the lift could be

Lift facilities

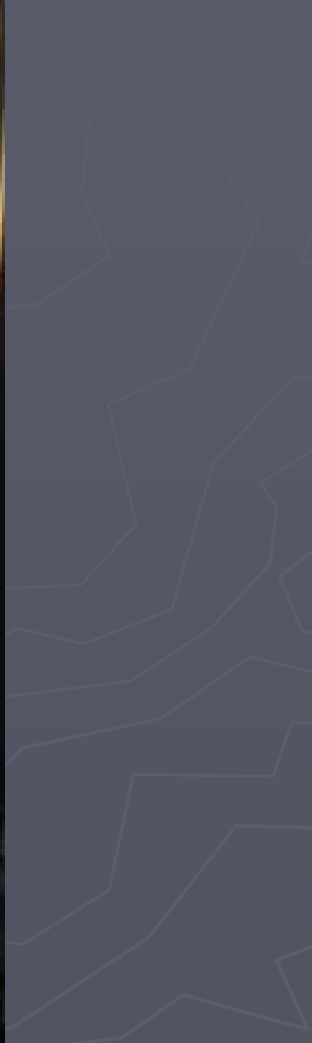
Lift is not a convenience passage

is not there only to take the structure
the lift – and it must be watertight
ired

ine room is not similar to the local
anks are kept – it requires good, p

Lift wall **REQUIRES** confirmation
as to suitability of use for the load
headroom also has an implication
ies

the machine room as a afterthought



Non-water tight pit



Lift facilities – cont'd

Walls are preferred in concrete
I normally do

Must be had for checking straight
You may lose a lift size (e.g. from
Must because a shaft is skewed

Manufacturer tolerances are normally +
we are always told this cannot
shafts go higher, the tolerance

Installation requires a closer tolerance
It has to be met.

facilities- door open

heights are not 7 or 8 courses of the
y require rough openings *around* 22
s must not be done unless the archi
is convinced that the builder can ac
lerance in alignment between floors
ntel must NOT support on the door
n installed on landing as opposed to in
oor jamb requirements.

ed with gap between car toe guard
r than 150 mm will require to have
a corresponding price increase

raft without door jam



Door Sills

floor levels are required once installed - this is the point where gaps will show up.

spaces should not be tiled till the space for the door sill. And this is to support loads.

door sills are around 35mm high and width depending on the number

of the tiles / marble in the landing to match exact sill clearance

Other requirements

ft requires ventilation by la
opening is usually suggested
cturer

ft ventilation **MUST** be prot
the ingress of elements – i
e lift to last its expected life

machine room

phone line in the machine
requirement

Choices – the Hydraulic

to about 5 stops

in the larger cabin dimensions

at least ONE good load-bearing wall

utilisation of given shaft space

in machine room positioning

:

at more than 23 m

wear and tear on the guidance shoes

not suitable for high traffic

operation

consumes about twice the energy of a traction lift with

Choices- the Traction

s on travel

can go beyond 1 ms^{-1}

ly smoother ride

ergy consumption

ds better to high traffic situation

ns:

initial outlay

ncy evacuation device costlier

s a machine room, normally in locat

Site Situations

...e space is needed ON SITE
...se to it.

...d most other building finishes
...g grout, plaster and gypsum
...arm

...ting the lift to become a ho
...ding finishes is generally ill
...us apart from shortening it
...t even starts it.

Site Situations cont'

of electrical supply, including
three phase as and when

raft including pit and machi
be prepared at point where
or moves in

be clear of debris and not

Recent development

lifts now available as mac
most manufacturers supply t
re is a price tag

pit lifts are available –can
at random

lifts- special applications
w treat these individually

Machine room less lift

to headache of having machine room above shaft

environmentally-friendly than
c lifts and preferred by "green
ons – also higher speed possible
towards gearless solutions
ent

g high compared to hydraulic
d traction lift

Reduced-pit Lifts

in demand because it solves co
es

e made for EXISTING buildings
new buildings is ABUSE of the
by the relevant authority will a
ated on a case by case basis.

COMMIT YOURSELVES TO A R
UNLESS YOU ARE IN THE CLE

Platform Lifts

a solution to overcome architectural barriers and provide accessibility to persons with reduced mobility where there is NO OTHER

called Home Lift is a wrong title
Platform Lifts MAY NOT be provided as a conventional lift.

limitations to the travel – current maximum height 10 metres / 5 Stops. (To travel through the platform takes around 2 minutes)

Platform Lifts con

Platform lifts fall under different legislation
This is according to the Machinery Directive
and not under EN 81 as with conventional lifts

There are 3 Kinds of platform lifts, all
powered by a motor and work on 240v:

1. Platform type - Suitable for stairways

2. Platform type – travel limited to 2 m

3. Platform type – Installed where a normal lift is

impossible – maximum 5 storeys

Platform Lifts Cor

s have a speed limitation of m
for safety.

platform lifts have only landing
doors; hence they should be in
the right circumstances – i.e.: fo
of persons with disabilities in
ces.

uld not be abused of because
of 130 mm- they are not reduc

on Lifts – Interpretation

ere presenting the use of platform
ed by MLA members

orms for use in public, indeed in com
s require to have cabin doors and b
47 and amendments

used only where use of lift is not po
platforms are being introduced for in
for disabled persons in commercial l
ese require to be used only for such
t be used by the public at large.

Platform lifts con

Platform lift" title is also used for the lifting of goods; i.e. for a goods lift a platform being proposed instead of car lift. They have much larger capacities and being of scissor type or scissors type.

As the car is unattended, or the risk assessment has been done on the equipment, this is permissible. A platform lift must still be certified and given at least a certificate of conformity.

Platform Lift !!



This shows def
abuse of a so c
"Platform Lift"

GOODS ONLY LIFTS

Lifts are intended ONLY for the carriage of goods and material.

Lifts should have landing doors as a minimum.

Lifts should be controlled only with landing doors but no pushbuttons should be used.

Lifts should also be certified after installation and every six months if installed in a public place.

Other concerns

removed from old buildings Still
considered, in whole or in
installations because:

will now require to be certified
basis

ation to standard will cost as m
ference to a new lift

tion in the making requires tha
brought up to certain minimum
ards

Hopefully.....

~~DANGER~~

~~ELEVATOR
SHAFT~~

ank you.