



LERCH BATES

Building Insight

Update

Issue 11
Summer 2011

Consulting Engineers for Moving People and Materials

- Vertical Transportation
- Façade Access
- Maintenance Management
- Materials Management
- Materials Handling
- Horizontal Transportation

In This Issue

- Energy Efficiency - A Case Study
- Masdar Institute - Zero Carbon, Zero Waste City wins RIBA Award
- Visit our Blog and Join the Debate!
- Free Seminars - Book your place now!



consultancy engineering business environment

Focus on Lifts and Energy Efficiency



Lerch Bates have been spearheading energy efficient lift equipment for some years now and even working with manufacturers to achieve new solutions in this area, including "three stage standby operation" and use of regenerative drives even for some of the smallest and slowest lifts we specify. Some of these requirements can add considerable cost and complexity to lift equipment, but many are giving a 5 to 10 year payback or better as energy costs continue to escalate. A major part of our latest specifications are devoted to energy efficiency.

RIBA Award for Excellence

Foster & Partners' Masdar Institute, the world's first zero carbon, zero waste city in Abu Dhabi

The Royal Institute of British Architects (RIBA) has announced the thirteen buildings which will receive RIBA International Awards for architectural excellence and Masdar Institute is one of those projects. We are pleased to have acted as the vertical transportation consultants on the world's first zero carbon, zero waste city.



Masdar Institute, Abu Dhabi

Lifts typically consume between 5 and 15% of a building's energy (source CIBSE Guide F). But how efficient can we reasonably expect a lift to be and how much energy could you save by modernising your lift equipment?

Case Study The University of Sheffield



In recent years we have been working with the University of Sheffield modernising a large range of lift equipment including a "Paternoster" lift installation. An important criteria for the University was the energy efficiency of the modernised lift equipment.

Lift technology has made dramatic strides in the past thirty years with microprocessor controls, solid state regenerative drives and lighter weight equipment. Replacing 20 or 30 year old equipment can make a very significant difference to energy consumption providing the right elements are specified.

A passenger lift at the University of Sheffield was examined and readings made of its energy consumption over a period of some weeks.

The lift was then modernised to Lerch Bates' specifications and the energy consumption again checked over a similar period for comparison. Because of the major change undertaken with the drive and control equipment the **modernised lift consumes 85% less energy!**

If we assume 1 kWh costs 10p then **the energy saving for this lift was approximately £1000 per annum.** The extra cost of the equipment specified for minimum energy consumption was identified as less than £5000. This cost was however significantly reduced by a smart procurement route recommended by Lerch Bates.

Book a place on our Free Seminar

**'All you need to know
about Lifts &
Escalators'**

(see page 2 for details)



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Building Insight

6 0 Y E A R S O F E X C E L L E N C E

'All you need to know about Lifts & Escalators'

FREE Half Day Seminar

This seminar is packed with valuable information and insight as to how you can meet your obligations as property and facilities managers. There will be a strong focus on reducing operational costs and this will include cost-effective maintenance contracts, specifying the right type of equipment and how "smart" modernisation can significantly reduce energy consumed by lifts.

Topics covered include:

- Statutory Requirements
- Managing Risk Assessments
- DDA Compliance
- The Right Type of Equipment
- Maintenance Contracts & Management
- Efficient Modernisation
- Role of the Lift Consultant

The speakers will be senior consultants who have an in-depth knowledge of industry practical solutions and many years experience.

Who should attend?

Facilities managers, building owners and property managers within both the private and public sector.

To book a place please contact the seminar organiser, Libby Crew, by email: libby.crew@lerchbates.eu or telephone: 01483 215215.

Seminar Dates & Locations:

Birmingham
28 September 2011

London
19 October 2011

Glasgow
09 November 2011

Liverpool
23 November 2011

Seminars commence at 9.30am and finish at 1.30pm. Morning tea/coffee will be served plus a light working-lunch.

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Join the Debate!

Some of you have already made use of our new blog to interact on various issues so why not log on and challenge our resident expert *Professor Elbie* with your question or simply discuss your day to day problems with lifts and escalators?

[How can I satisfy the Provision of Use of Work Equipment Regulations?](#)

[Does your lift comply with the lift regulations?](#)

[Do I need a statutory examination on my escalators or moving walkways?](#)

[Can lifts and escalators earn BREEAM credits?](#)

[Is it a legal requirement for a lift to have an auto dialler?](#)

[SAFed LG1 guidance](#)

[Can I release trapped passengers from a lift?](#)

Come on - join the debate!



blog.lerchbates.eu



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