



BATTERSEA





GLE CASE STUDY | 2020

Battersea Power Station

LONDON, UK



GLE

Global Lift Equipment



The Battersea Power Station

As part of our supplies to Schindler UK, we were requested to provide another special lift in the Battersea Power Station complex. Before we have already supplied some other units, most of them scenic lifts, but on this occasion the challenge was very difficult: A traction lift with a Norm Exception which had to be for a 4900 Kg in a car of 4200X7300 mm.

We provided a solution which beat other options, where we designed a traction lift for the duty load but with the strength and components of a 9 Tons.





We worked from the beginning with the Notified Body AENOR which tested the lift under commissioning and issued the certificate for leaving the lift in service. To be able to certify this installation, as a risk analysis, we provided a solution that includes a safety gear for $Q=10530\text{kg}$, but the rest of the lift (counterweight, machine, bedplate, diverter sheaves and control correspond to $Q=4900\text{kg}$. The safety gear can be activated by the OSG's A3 coil, in case the lift was to be full at floor level. For example, if the lift is loaded with 7000kg , the PSCM fails and the motor starts working, there may be a moment when sliding occurs, which will mean that the car will descend, increasing its nominal speed until the OSG activates the safety gear.



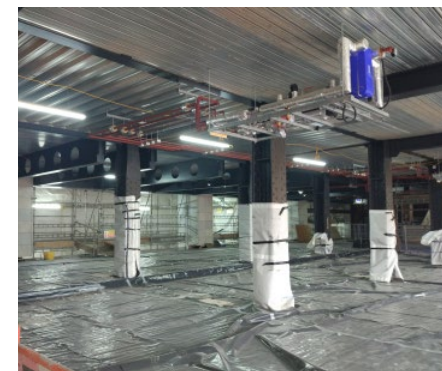
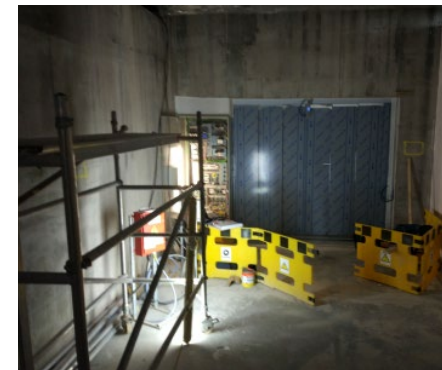
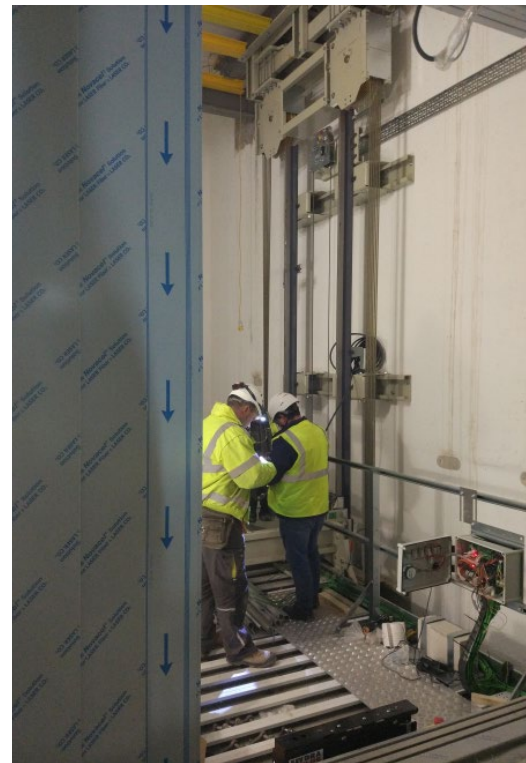
- Duty load 4900 Kg (Area for 10530 Kg)
- Speed 0,5 m/s
- 8 Stops
- Travel 28 m
- Doors 2700x2500 mm
- Double entrance 180°





The lift was carefully designed, produced and installed in less than one year. Our team went to site to help in the commissioning and final adjustment on February 2020.

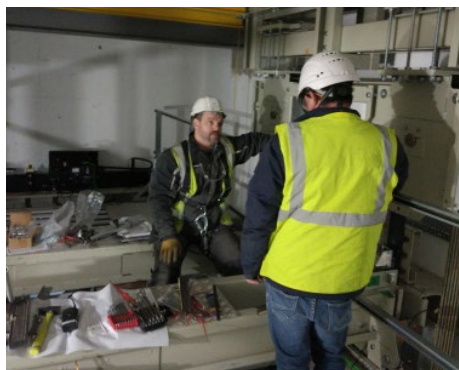
The lift was also used for beneficial use during the rest of the works of the building.





TECHNICAL DATA

| | |
|-----------------------------|-------------------|
| ROPING RATIO | 4:1 |
| LOAD CAPACITY | 4900 KG |
| TRAVEL DISTANCE | 27775 mm |
| NUMBER OF STOPS | 8/9 |
| SPEED | 0.5 M/S |
| LIFT CAR | XL SERIES |
| DIMENSIONS | 2765X6450X2500 MM |
| PANELS | REINFORCED STEEL |
| COPS PUSHES | SCHINDLER TYPE |
| SAFETY EDGE | CEDES |
| LIFT CAR FRAME | BATT |
| ROPING RATIO | 4:1 |
| MAIN CHARACTERISTICS | P+Q 8500+4900 |
| MAX SPEED | 0.5 M/S |
| MAX PASSENGER LOAD | 65 PERSONS |
| MAX DUTY LOAD | 4900 KG |
| CAR GUIDE RAILS | |
| MAKER | SAVERA |
| TYPE | 4XT140-1/B |
| MACHINE | |
| MAKER | ZIEHL ABEGG |
| MODEL | SM250.100C |
| POWER | 29 kw |
| STARTING CURRENT (SS) | 120 |
| RUNNING CURRENT | 65 |
| LANDING DOORS | |
| TYPE | WITTUR |
| CLEAR OPENING | 2700X2500 |
| TRACKS | 5615X3000 MM |
| MAKER | REINFORCED STEEL |



LIFT CAR DOORS

| | |
|---------------|------------------|
| TYPE | BOLTON |
| CLEAR OPENING | 2700X2500 MM |
| TRACKS | 5615X3000 MM |
| MAKER | REINFORCED STEEL |

SAFETY GEAR

| | |
|-------|---|
| MAKER | COBIANCHI PC100D-4 GUIDE RAILS INSTALLATION |
|-------|---|

BUFFERS

| | |
|--------------|---------|
| MODEL | ACLA |
| NUMBER | 300.402 |
| MAX.STRENGTH | 4 |
| YES | 20 KN |

PAWL DEVICE

NO
DIMENSIONED FOR NOT USING IT
AVOIDING OVERLOADING PROBLEMS

VOLTAGE

415 VAC 50HZ
220 VAC 50HZ

SHAFT LIGHTING VOLTAGE

YES

CONTROL SYSTEM

| | |
|-------|----------|
| MAKER | ALTAMIRA |
|-------|----------|

APPLICABLE STANDARDS

EN81-20
EN81-28
EN81-73



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