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*report*



**LiftEquip**<sup>®</sup>  
ELEVATOR COMPONENTS



Projekt:  
Altenheim Clervaux,  
Beil Aufzug N° 821



## Swabian technology in Luxembourg meets highest quality demands

UK

As early as in the 2/2009 edition of Lift-Report a project was presented which originated from the co-operation of the Swabian LiftEquip GmbH and the independent medium-sized elevator manufacturer Beil headquartered in Luxembourg. This year, too, plants have been projected including special solutions that meet highest quality standards. During a visit paid by Lift-Report in 2013 the manufacturer again convinced with his elevator systems.

The elevator manufacturer Beil was founded in 1976 by Louis Beil-Laschette after having worked for some years for various companies assembling plants in Luxembourg. In the years to come the manufacturing portfolio of the company was continuously broadened in order to be able to fully

meet the requirements of the demanding customers. In 1996 the son of the founder, Claude Beil, took charge of the company and changed the corporate name to Beil s.à.r.l. Under his reign the company has evolved to one of the leading elevator manufacturers on the demanding Luxembourg market. Today, Beil elevators define a distinct class as far as quality, practicality and aesthetics are concerned.

The elevators are planned and projected by the company. The cars, the structural steelwork and control systems are manufactured in the company's own shops. The manufacturer is specialized in fabricating elevators complying with the customer's individual requirements taking into account local conditions and closely co-operating with architects, planners and building owners.

Some of the projects of the Luxembourg manufacturer which have been realized with LiftEquip components are presented in the following.

### The water tower in the Centre National de l'Audiovisuel

The water tower in Dudelange is an optically distinct landmark. It is planned to give the shut down hydroelectric power station a totally new function. The rooms of the former pump house and the water tower will be used for exhibitions. The "water tower" will be integrated into the CNA – Centre National de l'Audiovisuel – a house for film and video art.

An exhibition of the "The Bitter Years" collection on the subject of Edward Steichen is planned for the opening. The exhibition in the water tower (The Bitter Years) is a permanent one. The





Jim Clemes S. A. as well as the engineering office Jean Schmit Engineering are planning the modernization and renovation of the water tower into a modern exhibition building. Together with Claude Beil the elevator should become a central design element.

The elevator plant has six landings (approx. 38 m lift) and an 800 kg capacity and operates at a speed of 2.5 m/s.

All doors are fully made of stainless steel and the doors in the outdoor areas are equipped with concealed sills and sill heating systems.

Inside the water tower there are three vertical windows. The windows of the elevator car are fitted in locations matching the windows of the tower so that they allow a nice view from the car onto the city of Dudelange. On the upper floor in the exhibition rooms there is a round projection with a window from where the visitors can take a look into the elevator shaft. The gearless drive is located directly beneath the window. The roof of the elevator car is also equipped with a 600 mm dia. round window through which passengers can look into the elevator shaft. All elements inside the shaft (safety gear, drive unit, rails, doors, buffers, etc.) are painted. The car lining is made of flush-mounted triple laminated VSG safety glass and Trespa.

For this elevator system the Swabian company has supplied the SC 300 gearless drive installed in the shaft head including the energy-recovering

MFC 100R converter as well as an emergency power evacuation system by means of a UPS, counterweight, overspeed limiter and buffer.

The compact gearless SC 300 drive is designed for demanding elevator systems. The machine with a 2:1 reeving is suitable for a capacity of up to 1,600 kg and for speeds up to 3.5 m/s. Both the S as well as the M designs of the SC 300 synchronous machine in monoblock design are extremely space-saving units.

The type-examined dual-circuit brake is certified as a safety brake conform to EN 81. An additional brake system for a deceleration in the up direction is therefore not needed. Owing to its extremely good efficiency the SC 300 can do without an additional ventilator which has a positive effect on the sound level. Because of the properly thought-out design the SC 300 only features a small number of mechanical components which has a favourable effect on the maintenance and service life.

### Cactus S. A. spoils customers

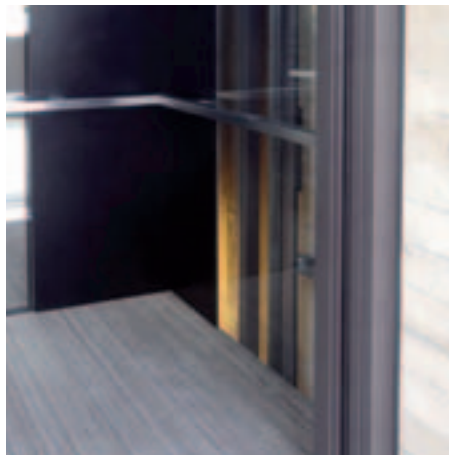
Cactus S. A. is a supermarket chain founded in 1900 by Joseph Leesch when he opened a grocer's shop. In the meantime the company comprises two shopping centres and eleven big supermarkets as well as various markets in which customers are served.

### Belle Etoile

With the Cactus Belle Etoile the Cactus-Group has opened the first shop-

annexed pump house will be used for various regularly changing exhibitions. Edward Jean Steichen was born in Luxembourg and died on March 25, 1973. He made his first photographs in 1895 and had his first exhibition in New York as early as 1905. From 1947 to 1962 he was in charge of the photography department of the New York Museum of Modern Art. After the renovation of the exhibition rooms and the restoration of the photographic works, the re-opening in Dudelange is planned for 2013. The exhibition room renovation project is marked by current reflections on the spatial layout and the presentation of the historic exhibition. The renovation is carried out under the supervision of the National Preservation of Historical Monuments Office.

The project architects Kaell Architecte and Atelier d'Architecture et de Design



Project:  
Water tower,  
Beil lift N° 830



Project:  
Cactus Belle Etoile,  
Beil lift N° 847



and MFC 100 R converter of LiftEquip. The SC 400 synchronous gearless drive is the perfect machine for high-speed systems carrying high loads. With a 2:1 reeving it can carry loads of up to 2,750 kg and reach speeds of up to 4.0 m/s.

In this building another Beil elevator has two landings, can carry up to 1,350 kg and operate at speeds of up to 0.63 m/s. The DAF270M gearless drive with MFC21-15 converter as well as the framed glass door panels with concealed sill are also from LiftEquip.

The group of three is of higher interest: in this system in particular the elevator is the architectural stylistic element, so that the optical appearance in tone with the building represents the maxim of the development. The high transparency of the group of elevators also comes in useful for the safety standard and the protection against vandalism.

Controls are installed some 10 m away from the machine room. The LiftEquip doors feature framed glass door panels with concealed sill. On the shaft side the door sills are lined flush with the surrounding surfaces. The glass car has a large glass pane on one side to further increase transparency. The size of the LiftEquip safety gear has also been increased to prevent the suspension angles from interfering with the optical effect when looking out of the car. The call buttons are integrated in the central glass segment.

ping centre in Luxembourg in 1974. Everything under one roof! Numerous retail shops in roofed arcades, a variety of restaurants, bars and cafes, one big supermarket as well as thousands of parking lots turn the Belle Etoile into a unique shopping mall. In order to maintain the high standard, the Belle Etoile has invested in the attractiveness of what it has to offer by increasing the sales area, redesigning the ar-

chitects and opening new shops. In co-operation with Brazdrum Project-plan GmbH, the Koechel & Partner architects and the Goblet Laven-dier & Associés engineering office Claude Beil has developed three elevators tailored to the specific requirements.

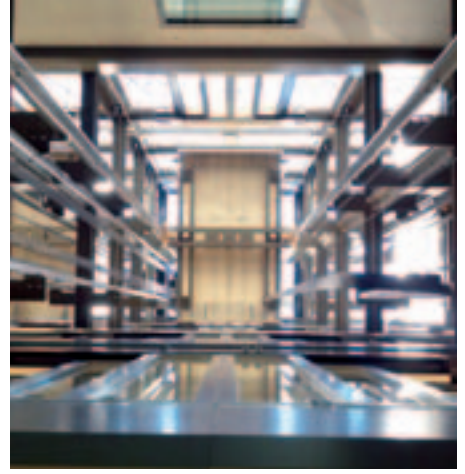
A goods lift is provided for a capacity of 3000 kg with SC 400 gearless drive



Project:  
Cactus Belle Etoile,  
Beil triplex lifts  
N° 849/850/851







The LiftEquip DAF270XL gearless drive is installed in the shaft head, the MFC 100R converter in the shaft well. The converter comprises ride contactors with control and monitoring functions conform to EN 81 ("contactors are switched after a change of the ride direction at the latest").

The scope of supplies also includes motor restrictor, brake control and anti-spinning unit.

The converter also includes an active energy recovery into the power supply network.



Apart from a favourable energy balance on account of the power recovery,

these units offer the advantage of a low portion of power harmonics in the network supply line.

#### **Cactus Windhof**

A very strong elevator with a capacity of 2500 kg, a speed of 1 m/s and three landings has been installed in the Cactus Windhof supermarket. The lower part of the shaft has been completely lined with aluminium. The shaft carcass and the glazing are Beil products. The TW 130 geared drive unit and the converter have been supplied by Lift Equip and are installed in the machine room. Both should meet the high load requirements.

Project:  
Cactus Windhof,  
Beil duplex lifts  
N° 823/824







the power network fail, a single-phase UPS (uninterruptible power system) allows an emergency operation to be carried out. When the controls of a synchronous gearless drive unit are turned off during maintenance work and the brake is released, the optional antispinning unit restricts the car speed to safe values by cutting in a resistor.

The control cabinet and converter are integrated into the stainless steel door frame of the bottom landing.

We wish Claude Beil and his staff a lot of success in the years to come and are looking forward to other high-quality and optically congruent plants.

### Old people's home St. Francois in Clervaux

The St. Francois old people's home is situated on a hill near Clervaux with a good view on the opposite 20th century Benedictine abbey. The venerable building is located in the open, wooded countryside and yet right next to the city centre of Clervaux. In 1910 the Franciscan nuns of mercy were donated a piece of land from a count where they built a monastery with the help of other donations in which homeless men, women, children and their parents could work and were given accommodation. In 1978 the hospital was turned into an old people's and nursing home which in 1996 was taken over by the Homes Pour Personnes Agées A.s.b.l.

A short while ago Beil installed an elevator with two landings and a capacity of 1600 kg to provide a barrier-free connection between the parking level and the entrance. The doors have been supplied by LiftEquip and are made of stainless steel. The DAF270M gearless drive unit is located in the shaft head and the MFC 21-32 converter of Lift Equip allows an emergency power evacuation by means of a UPS. Should

Project:  
Old people's home  
Clervaux,  
Beil lift N° 821



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