

ST. OTMAR CARE CENTER

Derungs 
MEDICAL LIGHTING

REFERENCE



Object: St. Otmar Care center, Schöнауweg 5, 9000 St. Gallen, Switzerland

Lighting solution: Derungs Licht AG, 9200 Gossau, Switzerland, www.derungslicht.com

Lighting design: Waldmann Lichttechnik GmbH, 5024 Küttigen, Switzerland, www.waldmann.ch

AN ATTRACTIVE LIGHTING SOLUTION

Modern healthcare facilities have very strict requirements. A professional lighting design that facilitates the work of healthcare personnel as well as the day-to-day activities of residents is of vital importance. The positive results from trials conducted at this site have incited the St. Otmar Treatment Centre to opt for the Derungs lighting solution.

Background

The St. Otmar Treatment Center was inaugurated in 1973. At that time, it offered space for accommodating 72 male and female residents in three wards of 24 beds each. Today, the Center has four wards of 20 beds each in single or double rooms. Most of the rooms have attached toilets with washbasins and some of them have toilet cabins. The Center also offers a chapel, a multi-purpose hall with a scene, a cafeteria, a treatment room, a mortuary, laundry and kitchen. A unit offering accommodation to persons suffering from dementia was opened towards the end of 2005.

Objectives of the center

The St. Otmar Treatment Center accommodates persons of all types of origin and religious faiths, generally at the retirement age and suffering from minor up to major handicaps. The residents are supported at the end of their lives until their death. The Center provides them with high-quality assistance and care. The human aspect is at the core of all activities, the needs and desires of persons are taken into consideration and respected.

Description of the project

The renovation of the care wards began in early 21st century. The rooms of wards 1 and 2 have been renovated progressively. The 12 rooms equipped for medical care and the short-stay room of ward 3 were renovated in 2005. The ward 4 of the center with its 18 rooms was opened later.

The design of ceilings, walls, toilet cabins and of the corridors was entirely reviewed and new furniture was installed. This furniture had to comply with modern standards and satisfy technical requirements relating to safety (stability, skidproofness and fire resistance). The general ambience had to be bright and friendly, with seating arrangements to allow the residents to meet and to engage in discussions among themselves.

These project objectives made it necessary to design a new lighting system, particularly for the rooms. It is during this work that the attention of the designer was drawn to Derungs Licht AG.

A professional lighting design allows an optimum satisfaction of all the lighting needs. They include lighting scenes such as the general and comfort lighting for the residents during day time, a pleasant reading light without glare for the beds, an intense treatment/examination lighting for the therapeutic activities or a non verbal wake-up for the residents. If required, a very discreet night light can be turned on, helping the nursing staff in the surveillance of persons asleep.

In the double rooms, the lighting solution developed was tested over a period of several weeks with the help of free standing luminaires very flexible in usage. They were controlled by a modern scenes command that called the desired lighting scene by simply pressing a button. The scenes were defined after in-depth interviews with the users.

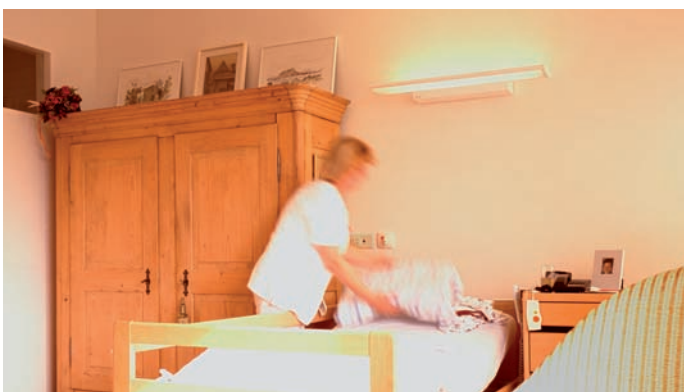
The D^{lite}® amadea variations from Derungs offer a lighting of high quality while also creating a calm, pleasing and comfortable

ambience.

The residents feel protected and safe. They like particularly the glare and shadow-free night light. The nursing staff also appreciates the lighting used for medical care that allows them to provide care rapidly without disturbing other occupants of the room. Persons suffering from dementia appreciate particularly the bright rooms flooded with light. Inadequate lighting conditions cause anxiety, falls, disorientation and passivity. On the other hand, an optimum lighting encourages a feeling of wellbeing and independence. Since each person has his own luminaire, there has been a positive secondary effect of preventing petty quarrels between the occupants of the rooms.

The results of the trial period were conclusive. Based on the positive experience of the users, a decision was taken to equip wards 3 and 4 (unit accommodating the dementia patients) with the Derungs lighting solution.

D^{lite}® amadea



D^{lite}® amadea



LIGHTING ACCORDING TO DESIRE BY SIMPLY PRESSING A BUTTON

An essential point of the new lighting design was the development of a logical, simple and intelligent operation of the installation, for the use of the staff as well as the residents. Detailed discussions allowed the definition and application of the following solution.



Entrance door

Near the room door, each resident can call up the following lighting scenes:

Comfort

- Provides a pleasant ambient lighting similar to daylight. It is composed essentially of indirect light with a minimum proportion of direct light for creating a glare-free ambience of well being.

Night

- The proportion of indirect light is reduced to 1 % by dimming, creating thus a very discreet and soft glare-free lighting. This lighting allows the orientation in a dark room, and the quantity of light remains sufficient for allowing the surveillance of sleeping persons.

OFF

- This function allows the deactivation of all the lighting scenes for the area of the concerned bed.



Control switches near the bed

Care

- This command is placed on the wall near the bed. It allows the nursing staff to activate the "Care" lighting scene. All the light sources are then lit to 100% of their power. They create a clear, shadow-free lighting, allowing the rapid and safe treatment of the person, without the nurse being inconvenienced in her work by the projection of shadows.

Comfort

- After completing the care, the nurse presses the button calling the "Comfort" lighting scene. The general lighting or the wellbeing lighting of the resident is then re-established.

Night light switch

- The red sliding switch allows the nursing staff to define the lighting scene to be called with the help of the remote control.



Remote control

(within reach of the resident)

This switch allows on one hand the resident to call a nurse. It is on the other hand equipped with a button that allows adjusting the light. If the resident has to get up during the night, he can then call the "Comfort" lighting scene; the room is then entirely illuminated.

Advantages

- With the help of the background lighting, the resident can go to the toilet without danger (prevention against falling).
- A well-lit room can communicate a feeling of security while waiting for the nursing staff; this allows reducing the anxiety state.
- Pressing again on the lighting button reestablishes the previous scene, "Night" or "OFF". The desired scene is selected using the sliding switch installed on the control switches placed near the bed.

TESTIMONIAL



From the Director of the Center
Mrs. E. Limberger

The experience acquired during the functional trials was confirmed subsequently in practice. We are very satisfied with the new lighting solution.

The advice and the assistance provided subsequently during the installation phase were very satisfactory for us and we can recommend this lighting system with entire confidence.

THE PRODUCT

LIGHTING OF ROOMS

The combination of different lighting scenes such as the general light, the care/examination light, the reading light and the night light is obtained with the help of direct and indirect light sources that can be switched individually.

D^{lite}® amadea Bed



54/54 W, 2x54 W



39/39 W, 2x39 W

- General light (indirect)
Reading light (direct)
Examination light (indirect/direct)
Night light
- The different lighting scenes can be switched or dimmed individually on demand
- Excellent luminous efficiency and high luminous yield with the help of the Double Reflecting System (DRS) and T5 fluorescent tubes
- Available in version 2x54 W and 2x39 W, completed by a 24 W reading light

Our strong points

- Harmonious and pleasant ambient light, based on indirect/direct lighting
- Improvement of life quality for the residents as well as for the personnel thanks to the integration of general, examination, reading and night light
- Comfortable and simple switching between the different lighting scenes
- The rooms become a source of wellbeing and recovery
- Timeless and discreet design, well integrated in all types of environments
- Perfect and flexible solution for the residents, the personnel and the architect