

Press release

CLEAN II: clean light you can rely on

Some situations demand light in its purest form: when maximum concentration is required. When hygiene and resistance are top priority. When every inch of a room needs to be brightly illuminated. In a hospital, a laboratory, a food production facility. The supreme and industry versions of Zumtobel's CLEAN II take on these special lighting tasks. With their ultra-resistant, discreet design, they focus on what's essential: pure light. tunableWhite technology provides additional support, and perfect white light quality.

Dornbirn, 7 May 2020 – The design of the [CLEAN II](#) provides a perfect framework for light. With its cutting-edge technology, the second-generation product continues the legacy of the CLEAN luminaire family, a long-standing member of Zumtobel's portfolio. Its streamlined structure adapts seamlessly to any spatial conditions and requirements. Especially in laboratories, hospitals and industrial production facilities, the essential components of the technical equipment run through the ceiling and the available installation space must be used efficiently. In practice, the reduced luminaire height means easier installation and maintenance. For project designers, it means more freedom at the design stage. And thanks to the consistent positive-locking and smooth interlocking of all the components, the design is well able to cope with strict hygiene regulations.

CLEAN II supreme: actively controllable lighting for medical workplaces

In medical institutions such as laboratories, operating theatres and hospitals, light must adapt to many specific user requirements. For example, during operations, the surgical field should be illuminated with wideband white light, while in patient wards or in intensive care, a dynamically controlled light colour that moves between cool and warm can actively support patients' biorhythm. Integrated tunableWhite technology allows CLEAN II supreme to react appropriately to any environment. The light colours and luminous intensities of the LEDs are controlled by precisely calibrated drivers that ensure a constant lumen output at any light temperature or intensity. Doubly asymmetric light distribution allows white light to be switched to the secondary light colours of blue or green: asymmetrical light distribution prevents direct glare and eye strain, and is an ideal solution for precise, disruption-free working conditions in otherwise darkened rooms.

In the cleanroom: form follows function

The technical structure of CLEAN II supreme takes into account project design, installation and maintenance under special operating conditions. A click system enables new luminaires to be efficiently installed and drivers and lamps to be quickly replaced. Foam seals on the front and rear protect against dust, water and steam. Optional access via the rear of the CLEAN II supreme ST version is tailor-made for use in cleanrooms and can be used to carry out maintenance work

without having to enter the cleanroom. The Light Engine with its side lighting technology can also be taken out and replaced from here. The front consists of an optical film, a micro-pyramidal optic and the bright white glass cover. The single-pane tempered safety glass with three times the tensile strength is non-porous, dirt-repellent and anti-static, preventing the build-up of germs and bacteria. Both the glass and the powder-coated steel housing are easy to clean and resistant even to corrosive cleaning agents.

Precise light from every angle

What makes CLEAN II supreme really stand out is its MPO+ technology. This sits between the glass and the film, and directs the light precisely while reducing glare. Its secret lies in the micro-pyramidal optic that evenly diffuses the LED light using a diffuser layer, ensuring pleasant light distribution and high luminous efficacy. The patented optic balances diffuse and directed light and floods the room with brilliant, ultra-precise light without contrast overlays, which helps medical personnel carry out their challenging work.

CLEAN II industry: hygienic design for industrial cleanroom technology

Instead of mineral glass, the CLEAN II industry recessed and surface-mounted luminaires have an acrylic glass cover. Acrylic glass, also known as PMMA, is given its ultimate shape in a thermal process that also allows for sloping surfaces and undercuts. The cover's high-precision design ensures that it forms an impermeable joint with the steel housing. The resulting product is resistant in accordance with the IP65 rating, which means that CLEAN II industry is protected against dust, water and steam, and resistant to chemical and alkali solutions. In terms of aesthetics and function, the PMMA cover offers excellent optical light distribution while high-quality, ceramic-chip-based LEDs ensure great heat management. The industry series is the perfect choice for anywhere a hygienic, dust-free environment is required as standard and heavy demands are placed on the durability of furnishings and fittings. Available in different versions, as a square or rectangular panel, built into the ceiling, surface- or top-mounted, it fits into any architectural environment – as a perfect lighting solution for the food industry, in commercial and industrial kitchens, pharmaceutical production facilities and all other cleanrooms.

Captions:

(Photo credits: Zumtobel)



Image 1: The MPO+ technology of the CLEAN II supreme evenly diffuses the light, directs it to where it is needed and ensures light-flooded architecture with optimum glare control.



Image 2: The space-saving Light Engine of the CLEAN II supreme allows reduced luminaire height. The tempered safety glass offers an easy-to-clean, chemical-resistant cover.



Image 3: The high-precision design of the thermoformed acrylic glass on the CLEAN II industry ensures that it forms an impermeable joint with the steel housing.



Image 4: CLEAN II industry is the perfect lighting solution for the food industry, commercial and industrial kitchens, pharmaceutical production facilities and all other cleanrooms.

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About Zumtobel

Our passion is to create quality lighting solutions that deliver total perfection. We are driven by a conviction that the right kind of light can create the right atmosphere in a building at any time of day or night. When tailored to people's individual needs, light becomes something of an experience. We are always exploring new ways to come up with inimitable and timeless designs and are inspired by a unique creative ambition. When working on the lighting of tomorrow, we are driven by our innovative corporate philosophy of continuously improving the aesthetics of light. With passion, a sense of beauty and a forward-looking approach, we are constantly seeking to use light to help improve people's quality of life. The Zumtobel brand is part of Zumtobel Group AG, based in Dornbirn in the Vorarlberg region of Austria.

Zumtobel. The Light.