



Equip your sensitive clean room areas efficiently

Wherever highly-sensitive materials and technical processes are in use, absolutely clean, germ and dust-free air is imperative. In semiconductor manufacturing, life sciences, medical research and treatment, including many other areas, all activities are carried out in so-called clean rooms.

In order to also meet the requirements for spaces in the clean room area, it is necessary, among other things, to choose

work equipment, tools and techniques that rule out incidence of pollution within the room air as due to the presence of particles and pollutants. Therefore, special occupational clothing such as overalls, hoods and covering for shoes are strictly necessary. It is just as important that the materials used have an abrasion-resistant surface; moreover, floors must be seamless and easy to clean. In most cases, stainless

steel, smooth plastic, acrylic glass and HPL panels are used for the furniture objects. Clean rooms are accessed through specific sluices for material and personnel, in which air currents whirl up existing particles that get suctioned off by filter systems.



Image above: SANA cabinet systems for clean room areas in their entirety. Here, the cloakroom cabinets, functional cupboards, shoe racks and step-over benches are made of HPL panels. Thanks to its resistance and durability, the material is ideally suited for this range of applications. The advantage here is that smooth surfaces can be cleaned and disinfected thoroughly and quickly. A latch lockable step-over bench with a folding mechanism - made of stainless steel and dampers - is used for changing shoes and as so-called sit-over barrier between the clean room and the street shoes area.

SANA system solutions for clean room areas

At the time of designing and selection of material for SANA cabinet systems for clean room areas, customer requirements are given priority right from the beginning. At the same time, our ambitious and competent employees in the planning department at SANA always find product solutions that take every individual customer request into consideration, regardless of whether they encompass cloakrooms in changing rooms, sluice furniture, safes for valuables, laundry containers or sanitary furniture. Planners, builders and operators benefit from getting the complete equipment delivered and installed professionally from a single source. Our well-coordinated solutions ensure that every project is handled effectively from the point of consultation and planning to final assembly.

The project shown here is exemplary for clean room planning in respect of its layout, equipment and choice of material. In the cafeteria in the front section itself employees can make use of the 290 odd compartments for keeping their beverage containers before they enter into the very next clean room area. The cabinet system is made of laminated panels with a finely hammered surface. The HPL panels, which were also used for the clean room furnishing, are known for their high resistance to impact, scratches and abrasion.



// Special requirements for functional cabinets can be implemented individually. For example, a combination of helmet lockers, laundry containers with dropping cover and storage compartments for shoe covers can be executed without difficulty. The cabinet elements such as side panels, floorings, plinths and ceiling connector covers are made of 13 mm HPL panels while the rear walls are made of 6 mm HPL panels.



// The individual storage compartments, designed as a cabinet system, offer adequate space. The body, the slanting roofs and floors of the cabinets are made of HPL panels. The acrylic glass doors (clear, 12 mm) are provided with a box latch lock and silver shaded plates with engraved number.



// Clothes cabinets in changing rooms, here with colour contrast, offer employees enough space for personal clothing and other belongings. Normally, the cabinet systems are mounted on height-adjustable base frames made of aluminium square tubes. A bench offers comfort to users when changing clothes and shoes. If required, the cabinet systems can be clad flush-mounted up to the ceiling.

Lockable storage compartments are provided with transparent plexiglass doors.

Before the employees can reach their workplaces in the clean room areas, they must be able to change into their working clothes, considering the need to protect the sterile area against any risk of contaminants. In the gender-segregated changing rooms with adjoining sanitary facilities, there are cabinets in which personal clothing can be stored. The changing rooms are also equipped with wall-mounted mirrors and a shelf for hairdryers.



/// Acrylic glass doors can also be used as an alternative for designing clothes cabinet doors made of HPL panels. Such equipment variants of cabinets are very versatile and can include a clothes rail with safety triple hooks, hat racks and shoe hooks. Recessed edge at the cabinet's floor and ventilation openings on the top cover facilitate forced ventilation.

Here, too, HPL panels were used as material for the body, shelves and cabinet doors and benches. The cupboards with a box lock are conveniently furnished with clothes rails, double clothes hooks and hat racks. A recessed edge on the cabinet base and ventilation openings on the lid ensure forced air inside the spacious cabinets.

In order to prevent careless entry into the sterile zones, the changing areas are separated from the so-called white area by foldable, lockable step-over benches as "barriers". Functional cabinets with different equipment features, such as storage compartments for gloves, hoods, socks,

bathing slippers and gym shoes, including drop opening for worn items of laundry integrated in the shelves, ensure structured storage and disposal. All cabinet systems are made of HPL material with birch-grey surface finish.



/// Image on left: SANA Trennwandbau GmbH specializes in the production of partition wall systems and cloakroom lockers using a wide variety of materials. Partition wall systems can be made, among other things, of HPL panels or of ESG float glass, including coatings using screen printing process. Image on right: Wash basins with substructures are part of the standard toilet facilities. Drawers for used towels and removable inspection elements are designed to save space and reflect their functional efficacy. Detergents and other cleaning agents, too, can be stored appropriately. Firmly mounted HPL plinth panels are lined up with the floor to provide a clean and, at the same time, a sealed closure.



// Image above: The partition wall elements are mostly mounted on stainless steel screw-on feet, which are arranged in the dividing wall, can also be set back to give the impression of floating.

Image on right: the hands-off locking mode enables the user to lock or open the toilet cubicle door with the elbow. Spring straps ensure that the doors are initially kept open and that hand contact is avoided when entering. On the inside, a handle with a locking function enables the door to be locked and opened. Once released, the door opens again automatically by means of the spring straps. The prescribed emergency release and the familiar vacant/occupied display are retained in the previously known functions. The hands-off system can be installed for both new as well as existing SANA partition wall systems.



As a specialist for partition systems, SANA has also been delivering customized sanitary space partition systems. White waterproof partition walls of the type S 36, constructed in sandwich design (B1 hard foam core and 3 mm HPL laminate panels), are ideally suited for wet areas. The white surface is extremely robust and resistant to scratches and impact. The advantage is also the ground clearance of 150 mm that is achieved by the height-adjustable stainless steel leg supports, which allows quick and easy cleaning of the flooring. The TÜV certified and GS tested partition systems are installed by means of aluminium profiles invisibly built into the masonry. The front panel is held in a stable position by a continuously running top bar.



// The basic design of the seat benches is formed by a square aluminium frame (naturally anodized). The bench covers made of HPL panels are particularly sturdy.

SANA PRODUCTS

Clean room cabinets in single-door design

Clean room cabinets in hatch-door design

Safes for valuables

Shoe racks

Sit-over elements

Changing benches

Laundry containers

Pick-up boxes

Hands-off locking

SANA

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