

TOSO®

FURNITURE
MANUFACTURER

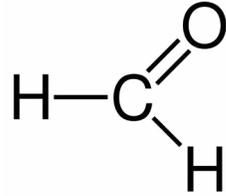


Health
to Office
furniture
for



TOXIC SUBSTANCE FORMALDEHYD

Formaldehyde - formaldehyde is a toxic substance used in 85 industry sectors for the production of everyday products, including building materials and furniture.



It is produced in the amount of 21 million tons per year. About half of this amount is used for the production of adhesives, for example wood-based products.

Exposure to formaldehyde may cause fatigue, drowsiness, irritation; cause allergies and irritations, and even be the cause of serious diseases.

On January 1, 2016, formaldehyde changed the classification from „Suspected of causing cancer” to „May cause cancer”. (EC No 1272/2008)

The wood-based panel, class E1, in the currently adopted European standard, can not release more than 0.1 ppm of formaldehyde.

According to the European Timber Trade Association, the maximum formaldehyde emission should not exceed 0.03 ppm, which is comparable to the Japanese F **** standard (0.03 - 0.04 ppm).



WOOL neutralizes harmful substances

In addition, upholstered elements and h2O system barriers were made of 100% wool fabric, which thanks to the keratin content, has a natural absorption capacity of formaldehyde and other irritating odors from the environment.

The partitions have been designed and made in such a way that they are easy to disassemble, which makes them easy to clean.



chipboard with minimized FORMALDEHYD content

H2O furniture is made of three-layer chipboard with minimized formaldehyde content in the Japanese standard F ****, according to JIS A1460.

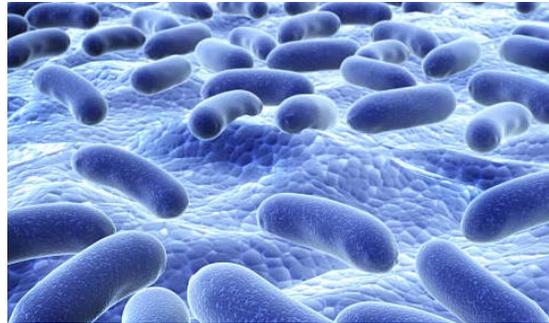
Which means that it has a formaldehyde emission of 0.03-0.04 ppm, which is close to that of natural wood.

The chipboard is certified by Blu Angel, which focuses on minimizing the harmful effects on the environment.

FURNITURE -THE PERFECT HABITAT FOR BACTERIA

The desk tops can contain about 10 million bacteria, which is about 400 times more than in the toilet. Due to the frequent contact of workers with these surfaces, the risk of disease transmission increases.

The use of antibacterial coatings in office furniture would help to prevent the transmission of microbes by employees and therefore reduce the frequency of disease.



The most popular antibacterial material on the market today is nanosilver.

Silver as metal is not dangerous to human health. However, when you break it into nanometers, it can penetrate the cell wall and cause changes in its interior, which can have harmful effect to health. Workers dealing with this type of materials may be particularly exposed to such risks.

Silver nanoparticles can cause the formation of harmful free radicals in cells that directly lead to serious diseases such as cancer, Parkinson or Alzheimer.

DANGEROUS ANTIBACTERIAL COATINGS

In h2O furniture, at strategic points, such as desk tops, cabinet handles and handles for moving helpers, an HPL compact disc with certified Sanitized® anti-bacterial coating was used. The board, in addition to having an antibacterial coating, is also waterproof.



The Swiss, certified Sanitized® coating permanently counteracts the growth of microorganisms. It kills up to 99.99% of bacteria.

The Sanitized® Silver coating is based on silver ions. It does not contain any silver nanoparticles.

Sanitized® Silver has the highest possible level of safety for a man and the environment, as evidenced by Oeko-Tex 100 (classes I to IV) and the „bluesign approved” label.

Silver ions quickly bind to sulfur compounds, which are found practically everywhere and transform them into an insoluble, inactive substance - silver sulphide, which according to current scientific knowledge is considered biologically inactive.

ANTIBACTERIAL HANDLES AND PLATES

ANTIBACTERIAL COATED SANITIZED®





70% OF USERS EXPERIENCE A PHYSICAL DISCOMFORT

Over 70% of users experience a physical discomfort in the workplace, and more than half of them complain about various types of pain, the most frequently indicated is back pain.

The position in which we work has a big influence on the pain. Incorrect sitting position causes about 40-90% more spinal strain than the wrong standing position. It is a force, acting on the third intervertebral disc, with a weight of 175-275 kg for a sitting position, and for a standing 150-200 kg.

The correct sitting position is a load of the spine with a strength of 140 kg, while standing position about 100 kg.

A sedentary lifestyle and a small amount of exercise make a chronic back pain an increasingly common problem in our society.

The sitting position is very harmful to our health.

The variable position is the most advantageous for work.



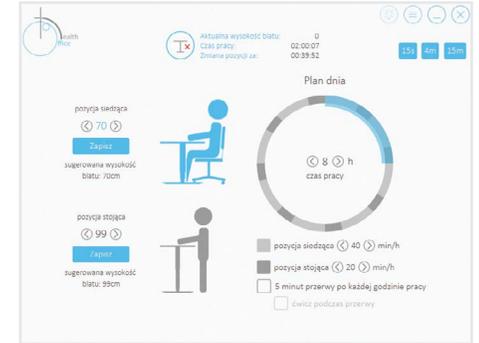
The h2O system is based on desks with adjustable electrical frames connected to a computer application. The columns of the frame are equipped with ZERO™ technology, which reduces the power consumption in standby mode from a typical 1-2 W level to just 0.1 W.

H2O application:

- It shows the current table top height and allows you to adjust the height of the desk using a computer.
- Based on the height and sex of the user and anthropometric boards, it suggests the appropriate height of the worktop for work in a sitting and standing position, and for persons using a wheelchair in a sitting position.
- the user can set his or her individual work planner, determine how many minutes per hour he wants to work in a sitting and standing position. The application, before the time specified by the user, reminds you of the change of position. After each hour worked, the application informs to take about 5-minute break (optionally) during which the user can perform loosening exercises displayed by the application which can be also connected to the desk lamp h2O.

The lamp has been combined with a special sensor placed in the worktop, which determines the level of lighting in the workplace. The application, by connecting with the sensor, sends information to the lamp, which adjusts its brightness to the changing lighting conditions of the environment. With the application in the form of simple graphics.

COMPUTER APPLICATION





Desks on electric racks allow you to adjust the height to the individual needs of the user.



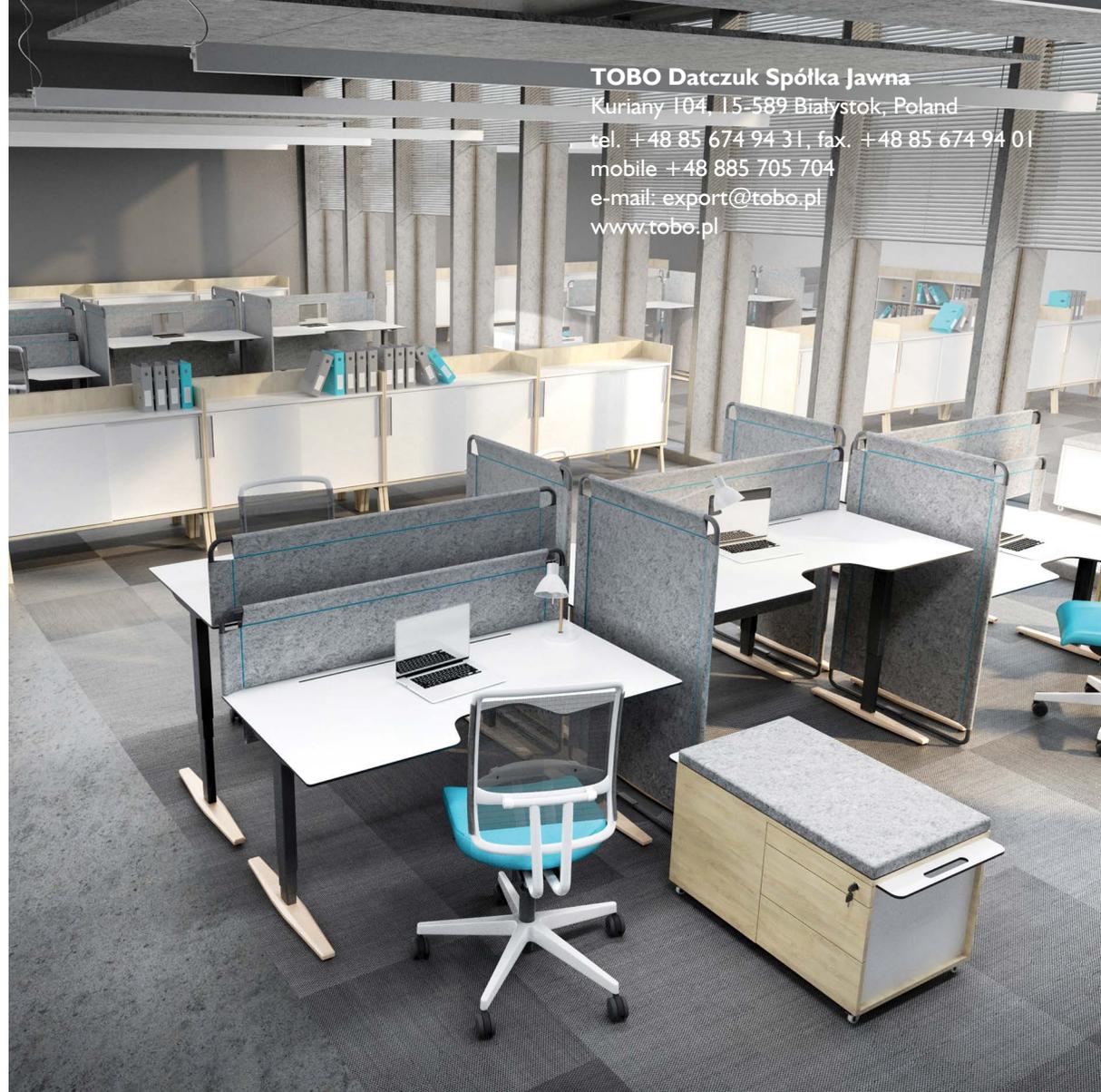
Cabinets on high racks allow people on wheelchairs to come closer to the fronts of this furniture. Sliding doors make them to open easily and do not require additional maneuvering operations.

UNIVERSAL FURNITURE

The h2O-Health to Office furniture system, thanks to the applied solutions, enables the creation of a workplace for both a non-disabled person and a disabled person moving on a wheelchair.

The dimensions of the furniture are adapted for disabled people using wheelchairs.

Handles made of HPL compact disc enable convenient movement of furniture from a sitting position.



TOBO Datzuk Spółka Jawna
Kuriany 104, 15-589 Białystok, Poland
tel. +48 85 674 94 31, fax. +48 85 674 94 01
mobile +48 885 705 704
e-mail: export@tobo.pl
www.tobo.pl