

## Product information

### Room separator ANTISEPTIC

The World Health Organization (WHO) on March 11 declared the corona virus COVID-19 a pandemic. Since then, health care systems worldwide are on high alert. Hygienic and protective measures have been increased to protect the population and health care workers against infection.

As part of our entrepreneurial commitment, we put high effort into the development and production of plastic solutions with an antiseptic and antimicrobial surface. These solutions participate actively in the increase of safety at work places, hospitals and homes.

- **Room separator ANTISEPTIC**

Due to the antiseptic and antimicrobial properties human pathogens will be neutralized and the number of germs will be reduced by up to 99 percent\*.



#### Protection against bacteria, fungi & viruses on surfaces

Our solutions are predominantly made of HDPE. A special additive of silver ions generates the antimicrobial effect. The silver ions support the reduction of an infestation with human pathogenic bacteria, fungi and viruses. This has been proven by scientific studies.

##### **Bacteria**

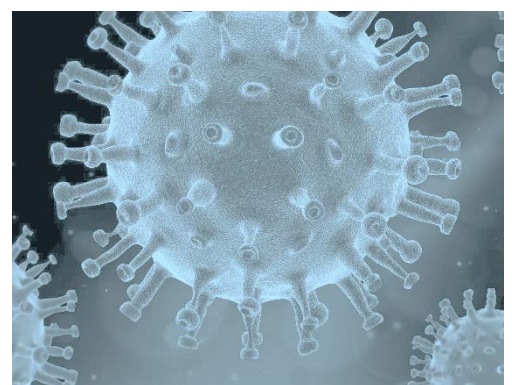
- Escherichia coli
- Legionella pneumophila
- Mycobacterium tuberculosis
- Pseudomonas aeruginosa
- Staphylococcus aureus
- Streptococcus agalactiae
- Trycophyton malmsten

##### **Fungi**

- Stachybotrys
- Candida albicans
- Penicillium funiculosum

##### **Viruses**

- A full list is available on request.



\* The figures represent test results with bacterial strains of Staphylococcus aureus IFO 12732 and Escherichia coli IFO 3972.

## Product description

The Room separator ANTISEPTIC made of plastic has an antimicrobial surface and prevent effectively further spread of human pathogens in medical and care facilities.

The standard room separator ANTISEPTIC is white and can be connected and arranged according to purpose. They are mounted on a solid foot-stand which makes them movable as well. Transparent elements can be included to increase visibility between separated areas.



## Applications

- Hospitals
- Rehabilitation center
- Retirement homes
- Nursing homes
- Medical practices
- Etc.

## Technical details

- Material: HDPE with an additive of silver ions
- Dimensions: 1000 x 2000 mm (WxH)
- Tare weight: 15 kg
- Colours: white, further on request
- Options: Transparent elements (without an antimicrobial effect)

## Your advantages at a glance

- Effective against bacteria, fungi and viruses
- Low human and environmental toxicity
- Easy to clean and sanitize
- No risk of injury (round edges)
- Easy and fast installation

## Chemical properties

HDPE (High-Density Polyethylene) has high resistance against common cleaning and disinfecting agents that are based on e.g. Aldehyde, Ethanol und Chloride (at room temperature of +20°C).

We recommend to first test the cleaning agent on a less visible spot as decolouring of the plastic can not be completely excluded.

We constantly develop our products. The mentioned specifications are subject to change.

## Installation manual

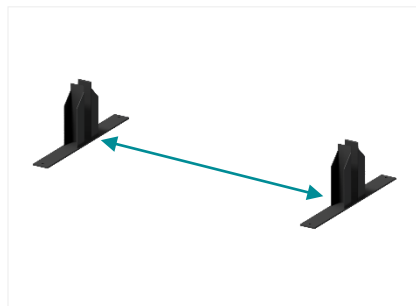
# Room separator ANTISEPTIC

The room separator ANTISEPTIC consists of a wall panel made of HDPE and two stable steel feet. Due to the smart design, the room separator will be set up in only a few steps - easy and fast. Use the screw set supplied to connect single wall panels to a larger wall.

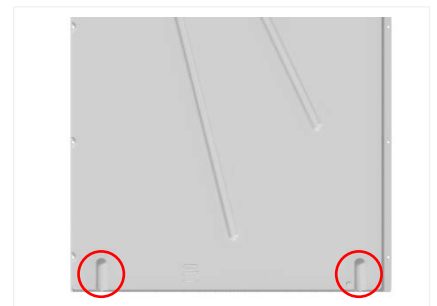
### Step 1: Set-up of feet



1.1 Place two feet at the desired position.

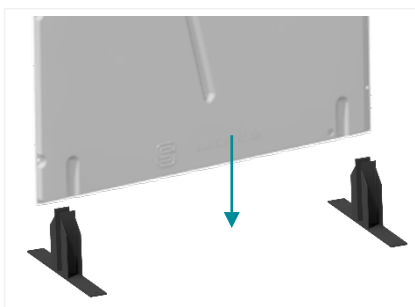


1.2 For a good stability, the distance between each foot should be between around 60 – 85 cm.



1.3 Caution: Do not position the feet on the depressions of the wall. The depressions support the reinforcement of the wall.

### Step 2: Set-up of room separator



2.1 Put the wall panel from above into the two feet.



2.2 Push the wall panel down till it reaches the flats of the feet.



2.3 The room separator is set up.

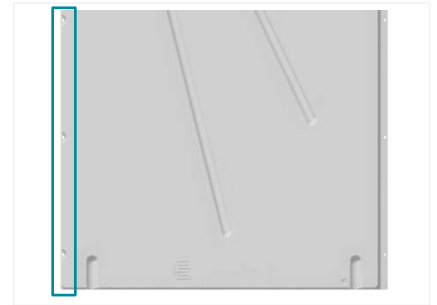
### Step 3: Connecting room separators



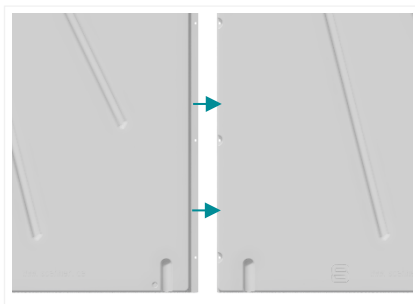
3.1 Use six screws and nuts to connect two wall panels to a larger wall.



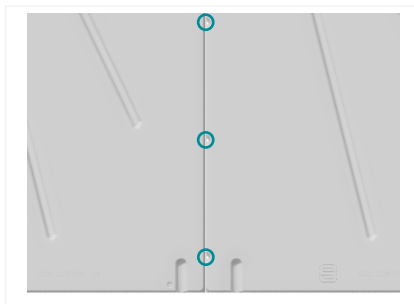
3.2 Each wall panel has two different sidebars. At the right bar the flat side points towards the front.



3.3 At the left bar the flat side points towards the back.



3.4 Slide the wall panels with the flat sides together till the holes are exactly on top of each other.



3.5 Put the screws in the holes and fasten it using the nuts (from the other side of the wall).



3.6 The two room separators are now connected. For dismantling simply remove the screws and nuts.

Note: The transparent intermediate element, which is optional, will be delivered without feet. For fastening the element to the wall panels use the same screw set supplied. One transparent element needs to be mounted between two room separators.

## Material information

### HDPE ANTISEPTIC (with silver-ions)

#### Description

The HDPE ANTISEPTIC consists of HDPE and an antimicrobial additive. The additive is a high-performance masterbatch based on silver-ions generating the antimicrobial effect.

The HDPE ANTISEPTIC works by inhibiting the multiplication of microbes thus reducing their populations. It is effective against bacteria, yeast, fungi and viruses and contributes to better hygiene and helps to prevent a further spread as well as cross-contamination.

#### Advantages

- Effective against bacteria, fungi and viruses
- Excellent anti-wash characteristics
- Long life efficacy
- Low human and environmental toxicity
- FDA and EPA approved

#### Applications

- Antiseptic room separators



#### Technical details

The inorganic material has a broad-spectrum antimicrobial and has many benefits over the traditionally used organic systems.

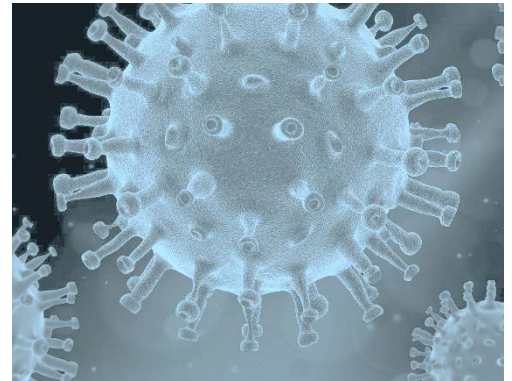
- Active against Gram-positive and Gram-negative bacteria, mold, yeast and viruses
- Slow release of silver-ions out of Zeolite or glass matrix
- Silver-ions are bounded via ion-ion interactions
- Highly effective and stable – does not vaporize or decompose

Property	Description
Material:	97 % HDPE
Additive:	3 % masterbatch with silver-ions
Colour:	White Further colours on request.

## Confirmed efficacy

The combination of HDPE with an antimicrobial additive is effective against bacteria, mold, yeast and fungi as well as several types of viruses while remaining non-toxic to mammalian cells.

Due to the antimicrobial properties of the plastic material human pathogens will be neutralized and the number of germs on surfaces will be reduced **by up to 99 percent\***.



### Bacteria

- Aureobasidium pullulans
- Bacillus
- Bacillus thuringiensis
- Chaetomium globosum
- Enterobacter aerogenes
- Escherichia coli
- Gliocladium virens
- Klebsiella Pneumoniae
- Legionella pneumophila
- Listeria monocytogenes
- Mycobacterium tuberculosis
- Porphyromonas gingivalis
- Proteus mirabilis
- Proteus vulgaris
- Pseudomonas aeruginosa
- Saccharomyces cerevisiae
- Salmonella gallinarum
- Salmonella typhimurium
- Staphylococcus aureus
- Staphylococcus epidermidis
- Streptococcus agalactiae
- Streptococcus faecalis
- Streptococcus mutans
- Trycophyton malmsten
- Vibrio parahaemolyticus

### Fungi

- Stachybotrys
- Aspergillus niger
- Candida albicans
- Penicillium funiculosum



### Viruses

Scientific studies have proven that silver-ions and nanoparticles are effective against viruses, for example:

- Hepatitis B virus
- Herpes simplex virus
- Human immunodeficiency virus (HIV)
- Monkey pox virus
- Respiratory syncytial virus

This information is based on a study about "Silver Nanoparticles as Potential Antiviral Agents" by Stefania Galdiero, Annarita Falanga, Mariateresa Vitiello, Marco Cantisani, Veronica Marra and Massimiliano Galdiero (2011).

Through conclusion by analogy, the silver-ions are also very likely to be effective against current viruses:

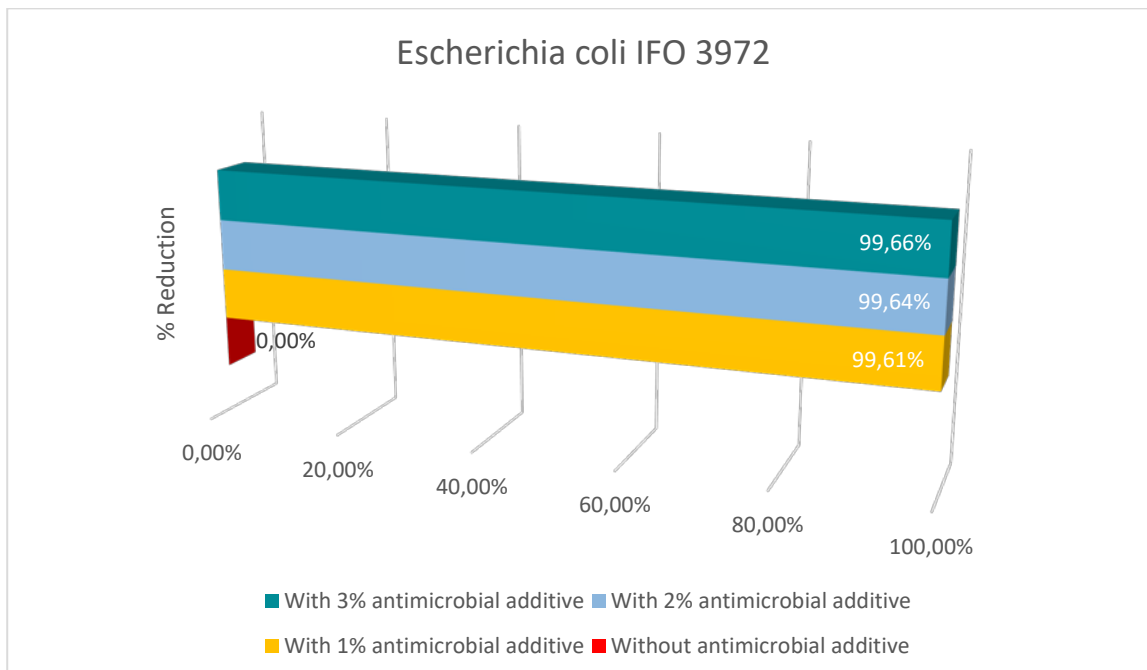
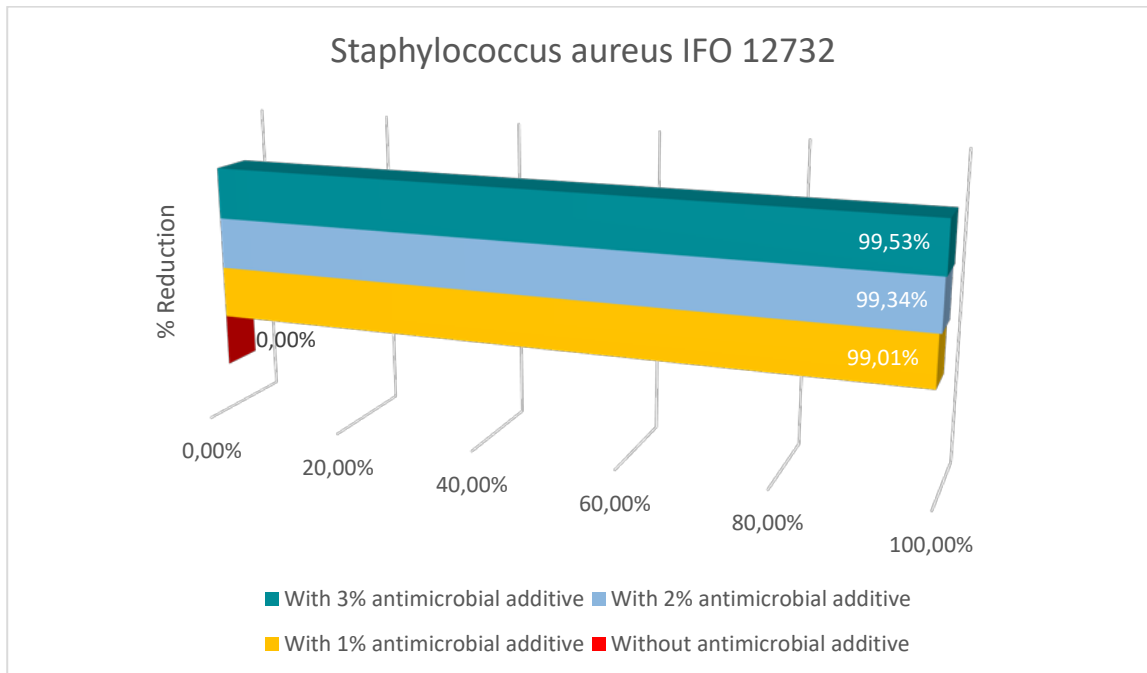
- Corona virus (COVID-19)
- Influenza

However, studies in this regard does not exist, but will currently be performed.

\* The figures represent test results with bacterial strains of Staphylococcus aureus IFO 12732 and Escherichia coli IFO 3972.

## Test results

The following test results have been performed with **LDPE blown film\***. The LDPE (Low density polyethylene) has similar material characteristics to HDPE (High density polyethylene).



\* We recommend sampling, product trials and testing of the product are undertaken to determine the suitability.