



ECHO**JAZZ** AG  
RINGSTRASSE 25  
6010 KRIENS  
SWITZERLAND  
[WWW.ECHO\*\*JAZZ\*\*.COM](http://WWW.ECHO<b>JAZZ</b>.COM)  
+41 41 340 18 80  
[INFO@ECHO\*\*JAZZ\*\*.COM](mailto:INFO@ECHO<b>JAZZ</b>.COM)

# ECHO**GRID**® 12MM MATRIX STANDARD DATASHEET

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# TENDER TEXT



## PRODUCT NAME

EchoGrid® 12mm MATRIX STANDARD

## DESCRIPTION

High-performance acoustic baffle for ceiling grids with textile surface made of 100% PET.

EchoGrid® is a new inlay for grid ceilings. It's an innovative concept for grid ceilings that is visibly different from conventional ceilings. The high acoustic performance noticeably and audibly upgrades heavily frequented rooms. The inlays are plugged together on site and hooked into the grid ceiling without tools. The very light grid inlays can be easily removed, allowing easy access for maintenance of the building services. Complete reusability after use guaranteed - zero waste!

EchoGrid® allows 3D ceiling designs from neutral simplicity to dramatic sculptural shapes. The patterns of the ECHOJAZZ designers are only a starting point, we are happy to work out individual designs on customer request.

## PRODUCT PROPERTIES

Thickness: 12mm

Weight: 2400g/m<sup>2</sup> (± 10%)

## ACOUSTIC PERFORMANCE

aw: 0.70

NRC: 0.70

## INSTALLATION

- Quick tool-free installation

## MATERIAL PROPERTIES

- Homogeneous edges throughout
- Extremely robust and shockproof
- Very high colour fastness of the all-round homogeneous textile surface available in over 10 colours
- Flame retardant. B-s1,d0 certified according to EN 13501
- Extremely low volatile organic compounds below < 0.5mg/m<sup>2</sup>/h, certified according to ASTM D5116
- Formaldehyde emission below < 0.1mg/m<sup>2</sup>/h, certified according to ASTM D5116
- Dimensionally stable up to 50°C and 95%rH
- Melting point: 250 °C
- Decomposition Temp: > 250 °C
- Alkalinity: pH: 7.8 (pH 7 is neutral)

## CLEANING & CARE

Can be cleaned dry and damp with chlorine or hydrogen peroxide.

## ENVIRONMENT

- 100% PET with a content of over 50% from recycled PET bottles
- 100% recyclable
- eco-1 rating within eco-bau & Minergie-Eco requirements
- Cradle to Cradle Bronze certified

## DISPOSAL

The product is recyclable as part of ECHOJAZZ's stewardship programme.

# DATASHEET ECHOBOARD® 12MM



EchoBoard® 12mm is a high quality sound absorber with an aw of up to 0.90 and a NRC of up to 0.85, which can be used for acoustic ceilings, walls, office desks or room dividers.

<b>NAME</b>	EchoBoard® 12mm																												
<b>DIMENSIONS</b>	1200mm (± 1mm) x 2800mm (± 1mm)																												
<b>COMPOSITION</b>	100% PET (> 50% recycled PET)																												
<b>PET-BOTTLES* PER PANEL</b>	168 PET-Bottles *The number of PET bottles refers to 500ml PET bottles with a bottle weight of 24g.																												
<b>WEIGHT</b>	2400g/m <sup>2</sup> (± 10%)																												
<b>MATERIAL THICKNESS</b>	12mm																												
<b>LIGHT FASTNESS ISO 105-B02-1994</b>	> 7																												
<b>FIRE PROTECTION EN 13501</b>	B-s1, d0																												
<b>VOC EMISSIONS ASTM D5116</b>	< 0.5mg/m <sup>2</sup> /h																												
<b>FORMALDEHYDE EMISSIONS ASTM D5116</b>	< 0.1mg/m <sup>2</sup> /h																												
<b>ENVIRONMENTAL CERTIFICATES</b>	eco1 Minergie-Eco Cradle to Cradle Certified® Bronze M1 emission-free materials																												
<b>ABSORPTION COEFFICIENT DIN EN ISO 11654 ASTM C423</b>	aw 0.30 (direct mounting) aw 0.60 (50mm wall/ceiling distance) aw 0.90 (200mm wall/ceiling distance)  NRC = 0.45 (direct mounting) NRC = 0.70 (50mm wall/ceiling distance) NRC = 0.85 (200mm wall/ceiling distance)																												
<b>COLOURS</b>	> 10																												
<b>ABSORPTION GRAPH</b>	<p>The graph plots the Sound Absorption Coefficient (Y-axis, 0.00 to 1.20) against Frequency in Hertz (X-axis, 125 to 4000). Three data series are shown: direct mounting (green line), 50mm wall/ceiling distance (yellow line), and 200mm wall/ceiling distance (blue line). All series show an overall upward trend with frequency, with the 200mm distance configuration consistently providing the highest absorption across the measured range.</p> <table border="1"> <caption>Approximate data points from the Absorption Graph</caption> <thead> <tr> <th>Frequency (Hz)</th> <th>Direct Mount (aw)</th> <th>50mm Distance (aw)</th> <th>200mm Distance (aw)</th> </tr> </thead> <tbody> <tr> <td>125</td> <td>0.02</td> <td>0.10</td> <td>0.52</td> </tr> <tr> <td>250</td> <td>0.05</td> <td>0.25</td> <td>0.80</td> </tr> <tr> <td>500</td> <td>0.15</td> <td>0.60</td> <td>0.95</td> </tr> <tr> <td>1000</td> <td>0.45</td> <td>0.90</td> <td>0.80</td> </tr> <tr> <td>2000</td> <td>0.80</td> <td>0.95</td> <td>0.95</td> </tr> <tr> <td>4000</td> <td>0.85</td> <td>0.95</td> <td>0.95</td> </tr> </tbody> </table>	Frequency (Hz)	Direct Mount (aw)	50mm Distance (aw)	200mm Distance (aw)	125	0.02	0.10	0.52	250	0.05	0.25	0.80	500	0.15	0.60	0.95	1000	0.45	0.90	0.80	2000	0.80	0.95	0.95	4000	0.85	0.95	0.95
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# COLOURS ECHOBOARD® 12MM



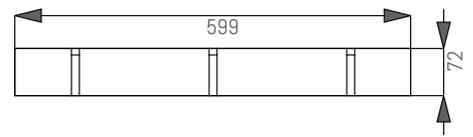
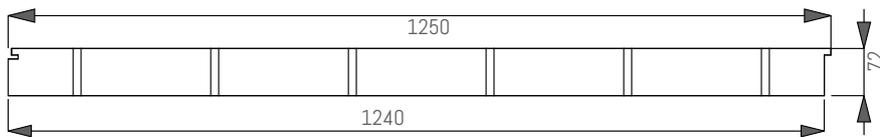
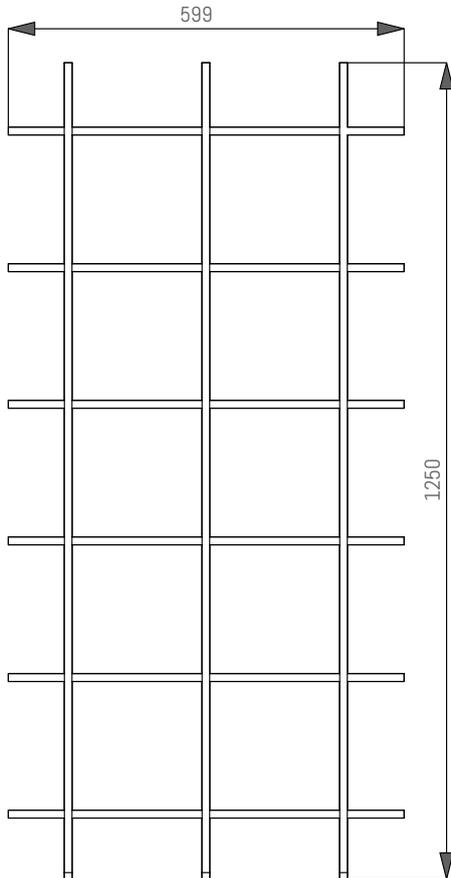
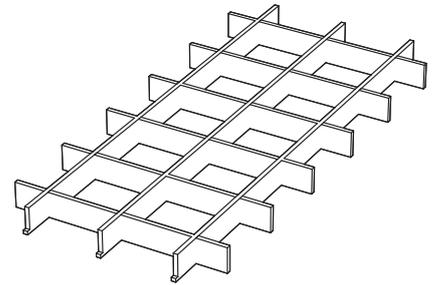
## ECHOBOARD® 12MM



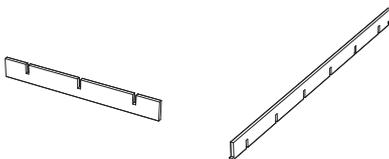
# DIMENSIONS & PARTS



ECHOGRID® 12MM MATRIX 1250 STANDARD  
1052  
599x1245x72mm



## PARTS



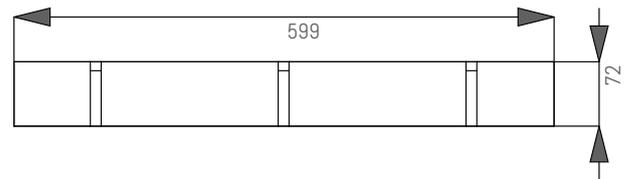
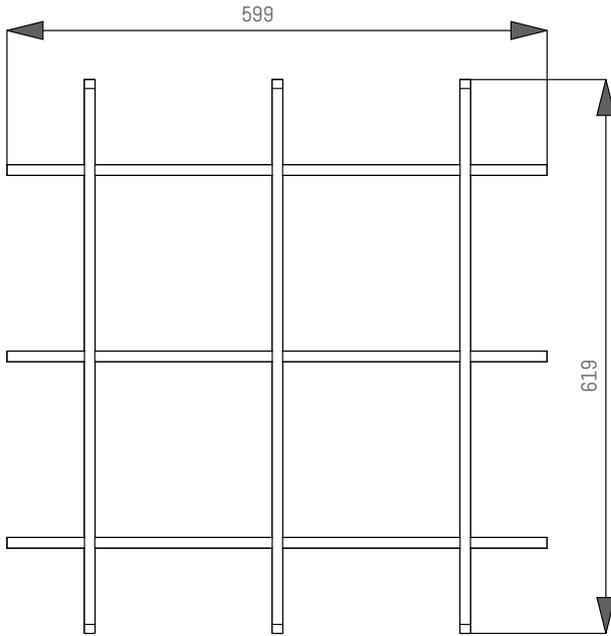
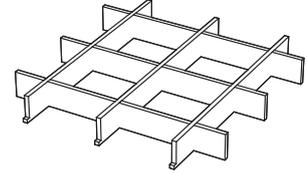
**6x**  
EchoGrid® COMB

**3x**  
EchoGrid® SLAT

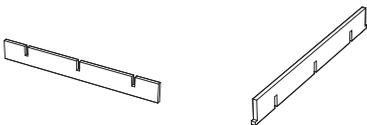
# DIMENSIONS & PARTS



ECHOGRID® 12MM MATRIX 625 STANDARD  
1050  
599x619x72mm



## PARTS



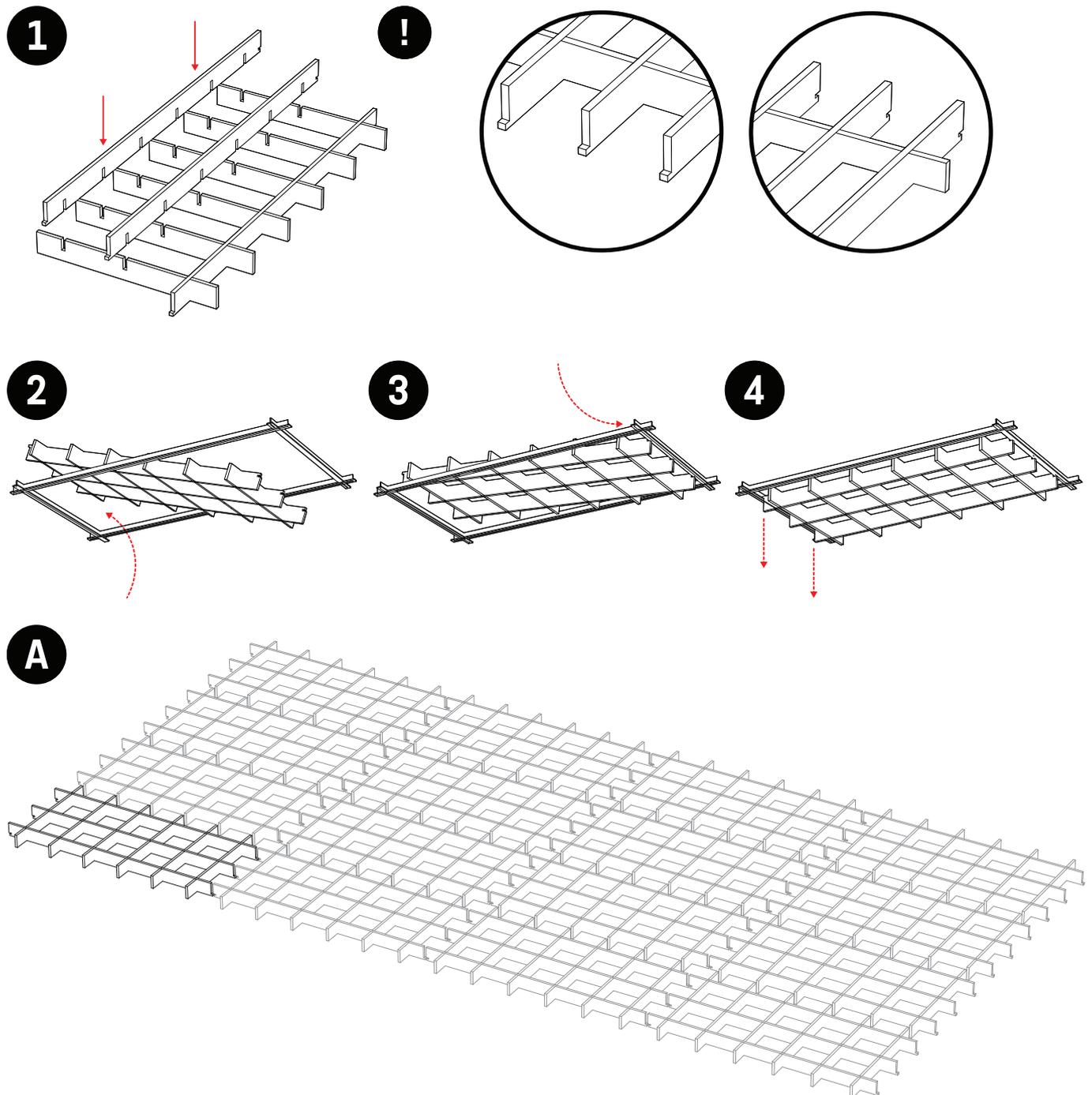
**3x**  
EchoGrid® COMB

**3x**  
EchoGrid® SLAT

# INSTALLATION



**ECHOGRID® 12MM MATRIX 1250 STANDARD**  
Minimum distance between ceiling and grid: 200mm

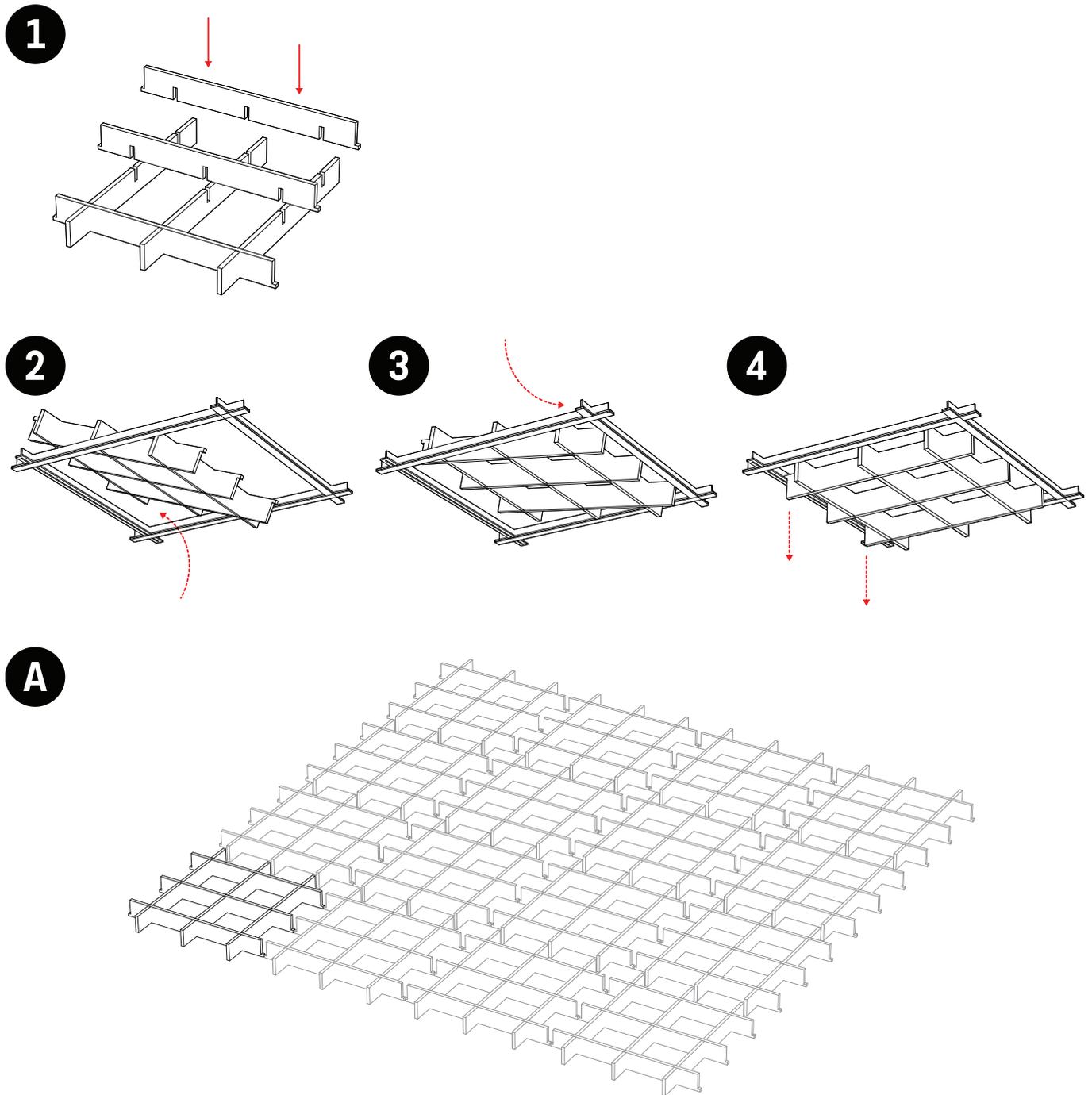


# INSTALLATION



## ECHOGRID® 12MM MATRIX 625 STANDARD

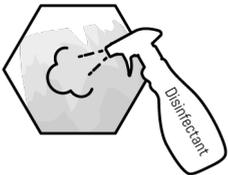
Minimum distance between ceiling and grid: 200mm



# CLEANING & CARE

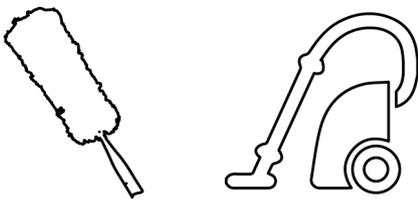
## SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



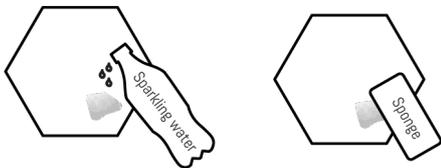
## DUSTER/VACUUM CLEANER

For dusting use duster or vacuum cleaner.



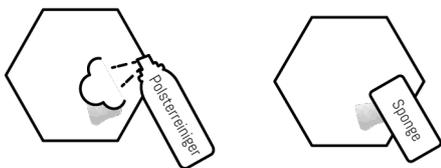
## SPARKLING WATER

For slight contamination apply sparkling water to polluted area. Wipe carefully with a sponge.



## UPHOLSTERY CLEANER

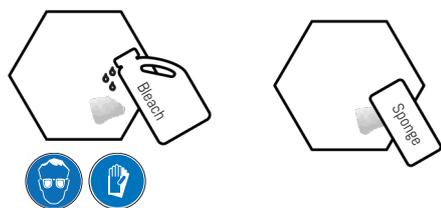
For medium contamination apply upholstery cleaner to polluted area. Wipe carefully with a sponge.



## BLEACH

For heavy contamination apply bleach as chlorine or hydrogen peroxide on polluted area. Wipe carefully with a sponge and sparkling water.

**Use of protection gloves and glasses is mandatory!**



Please make first a cleaning attempt on an inconspicuous spot. Follow the instructions of the cleaning agents.