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ECHOB**AFFLE**® CUSTOM DESIGNS DATASHEET

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TENDER TEXT



PRODUCT NAME

EchoBaffle® CUSTOM DESIGNS

DESCRIPTION

High-performance acoustic baffle, consisting of baffle slats, with textile surface made of 100% PET. Incl. substructure and suspension.

EchoBaffles® suspended vertically from the ceiling combine efficient acoustic well-being and striking design in open ceilings. It is visibly different from conventional ceilings. The open ceiling concepts also ensure the integration of the building structures in terms of climate technology while optimising the room acoustics at the same time. The baffle system can be easily installed by different means, as suspension brackets, direct clip-in systems or with wire-suspensions.

The high acoustic performance of EchoBaffles® effectively dampens sound and “audibly” upgrades rooms with high noise levels. As a customised solution with individual design, the acoustic ceiling becomes a special eye-catcher and lends the room a lot of dynamism.

EchoBaffle® allows ceilings ranging from understated simplicity to dramatic sculptural shapes. The creations of the ECHOJAZZ designers are only a starting point, we are happy to work out individual designs on customer request. Complete reusability after use guaranteed – zero waste!

PRODUCT PROPERTIES

Material thickness: 12mm/24mm

ACOUSTIC PERFORMANCE

aw: 0.45-1.00

NRC: 0.5-0.95

INSTALLATION

- Suitable for use in rooms as well as roofed outdoor areas
- Very easy to trim with a knife
- Quick installation with our supplied suspension set

MATERIAL PROPERTIES

- Extremely robust and shockproof
- All-round homogeneous textile surface available in over 10 EchoBoard® 12mm and over 20 EchoBoard® 24mm colours
- Flame retardant. B-s1,d0 certified according to EN 13501
- Extremely low volatile organic compounds below $< 0.5\text{mg/m}^2/\text{h}$, certified according to ASTM D5116
- Formaldehyde emission below $< 0.1\text{mg/m}^2/\text{h}$, certified according to ASTM D5116
- Dimensionally stable up to 50°C and 95%rH
- Melting point: 250°C
- Decomposition Temp: $> 250^\circ\text{C}$
- 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 α_w 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.

NAME	EchoBoard® 12mm																												
DIMENSIONS	1200mm (± 1mm) x 2800mm (± 1mm)																												
COMPOSITION	100% PET (> 50% recycled PET)																												
PET-BOTTLES* PER PANEL	168 PET-Bottles *The number of PET bottles refers to 500ml PET bottles with a bottle weight of 24g.																												
WEIGHT	2400g/m² (± 10%)																												
MATERIAL THICKNESS	12mm																												
LIGHT FASTNESS ISO 105-B02-1994	> 7																												
FIRE PROTECTION EN 13501	B-s1, d0																												
VOC EMISSIONS ASTM D5116	< 0.5mg/m²/h																												
FORMALDEHYDE EMISSIONS ASTM D5116	< 0.1mg/m²/h																												
ENVIRONMENTAL CERTIFICATES	eco1 Minergie-Eco Cradle to Cradle Certified® Bronze M1 emission-free materials																												
ABSORPTION COEFFICIENT DIN EN ISO 11654 ASTM C423	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)																												
COLOURS	> 10																												
ABSORPTION GRAPH	<table><caption>Approximate data points from the Absorption Graph</caption><thead><tr><th>Frequency (Hz)</th><th>Direct Mount (Green)</th><th>50mm Distance (Yellow)</th><th>200mm Distance (Blue)</th></tr></thead><tbody><tr><td>125</td><td>0.05</td><td>0.10</td><td>0.50</td></tr><tr><td>250</td><td>0.08</td><td>0.25</td><td>0.80</td></tr><tr><td>500</td><td>0.20</td><td>0.60</td><td>0.95</td></tr><tr><td>1000</td><td>0.50</td><td>0.95</td><td>0.80</td></tr><tr><td>2000</td><td>0.85</td><td>1.00</td><td>0.95</td></tr><tr><td>4000</td><td>1.05</td><td>0.95</td><td>0.95</td></tr></tbody></table> <p>Legend:</p> <ul style="list-style-type: none">Sound absorption coefficient (direct mount)Sound absorption coefficient (50mm)Sound absorption coefficient (200mm)	Frequency (Hz)	Direct Mount (Green)	50mm Distance (Yellow)	200mm Distance (Blue)	125	0.05	0.10	0.50	250	0.08	0.25	0.80	500	0.20	0.60	0.95	1000	0.50	0.95	0.80	2000	0.85	1.00	0.95	4000	1.05	0.95	0.95
Frequency (Hz)	Direct Mount (Green)	50mm Distance (Yellow)	200mm Distance (Blue)																										
125	0.05	0.10	0.50																										
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4000	1.05	0.95	0.95																										

DATASHEET ECHOBOARD® 24MM



EchoBoard® 24mm is a high quality sound absorber with an aw of up to 1.00 and a NRC of up to 0.95, which can be used for acoustic ceilings, walls, office desks or room dividers.

DESCRIPTION	EchoBoard® 24mm																												
DIMENSIONS	1800mm (± 1mm) x 2400mm (± 1mm)																												
COMPOSITION	100% PET (> 50% recycled PET)																												
PET BOTTLES* PER PANEEL	303 PET Bottles *The number of PET bottles refers to 500ml PET bottles with a bottle weight of 24g.																												
WEIGHT	3600g/m² (± 10%)																												
MATERIAL THICKNESS	24mm																												
LIGHTFASTNESS ISO 105-B02-1994	> 7																												
FIRE TEST EN 13501	B-s1, d0																												
VOC EMISSIONS ASTM D5116	< 0.5mg/m²/h																												
FORMALDEHYDE EMISSIONS ASTM D5116	< 0.1mg/m²/h																												
ENVIRONMENTAL CERTIFICATIONS	eco1 Minergie-Eco Cradle to Cradle Certified® Bronze M1 emission-free materials																												
SOUND ABSORPTION DIN EN ISO 11654 ASTM C423	aw 0.50 (direct mount) aw 0.65 (50mm wall/ceiling distance) aw 1.00 (200mm wall/ceiling distance) NRC = 0.70 (direct mount) NRC = 0.80 (50mm wall/ceiling distance) NRC = 0.95 (200mm wall/ceiling distance)																												
COLOURS	> 20																												
SOUND ABSORPTION GRAPH	<p>The graph plots the Sound Absorption Coefficient (Y-axis, 0.00 to 1.20) against Frequency in Hertz (X-axis, 125 to 4000 Hz). Three data series are shown: direct mount (green line), 50mm distance (yellow line), and 200mm distance (blue line). The 200mm distance consistently shows the highest absorption, peaking at approximately 1.05 at 1000 Hz. The 50mm distance peaks at approximately 1.00 at 1000 Hz. The direct mount shows the lowest absorption, peaking at approximately 0.95 at 2000 Hz.</p> <table><caption>Approximate data points from the Sound Absorption Graph</caption><thead><tr><th>Frequency (Hz)</th><th>Direct mount (Green)</th><th>50mm (Yellow)</th><th>200mm (Blue)</th></tr></thead><tbody><tr><td>125</td><td>0.05</td><td>0.15</td><td>0.55</td></tr><tr><td>250</td><td>0.15</td><td>0.35</td><td>0.85</td></tr><tr><td>500</td><td>0.55</td><td>0.85</td><td>1.05</td></tr><tr><td>1000</td><td>0.85</td><td>1.00</td><td>0.95</td></tr><tr><td>2000</td><td>0.95</td><td>0.95</td><td>0.95</td></tr><tr><td>4000</td><td>0.95</td><td>0.95</td><td>0.95</td></tr></tbody></table>	Frequency (Hz)	Direct mount (Green)	50mm (Yellow)	200mm (Blue)	125	0.05	0.15	0.55	250	0.15	0.35	0.85	500	0.55	0.85	1.05	1000	0.85	1.00	0.95	2000	0.95	0.95	0.95	4000	0.95	0.95	0.95
Frequency (Hz)	Direct mount (Green)	50mm (Yellow)	200mm (Blue)																										
125	0.05	0.15	0.55																										
250	0.15	0.35	0.85																										
500	0.55	0.85	1.05																										
1000	0.85	1.00	0.95																										
2000	0.95	0.95	0.95																										
4000	0.95	0.95	0.95																										

COLOURS ECHOBOARD® 12MM



ECHOBOARD® 12MM



COLOURS ECHOBOARD® 24MM



ECHOBOARD® 24MM



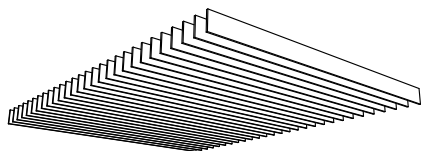
*Discontinued. Colour available from stock while supplies last or on request with a minimum order quantity.



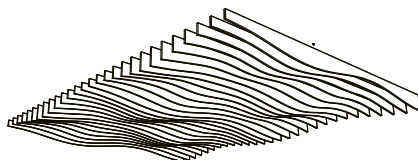
DESIGNS



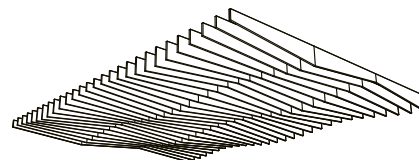
ECHOBaffle® CUSTOM DESIGNS



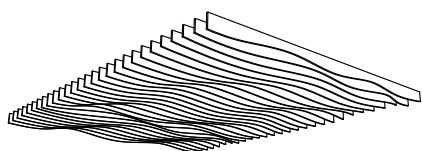
PLAIN



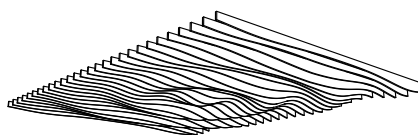
VOGUE



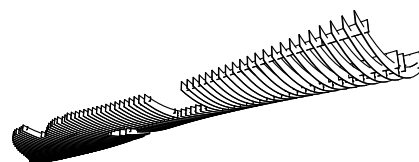
CORNER



FLUID



RIPPLE

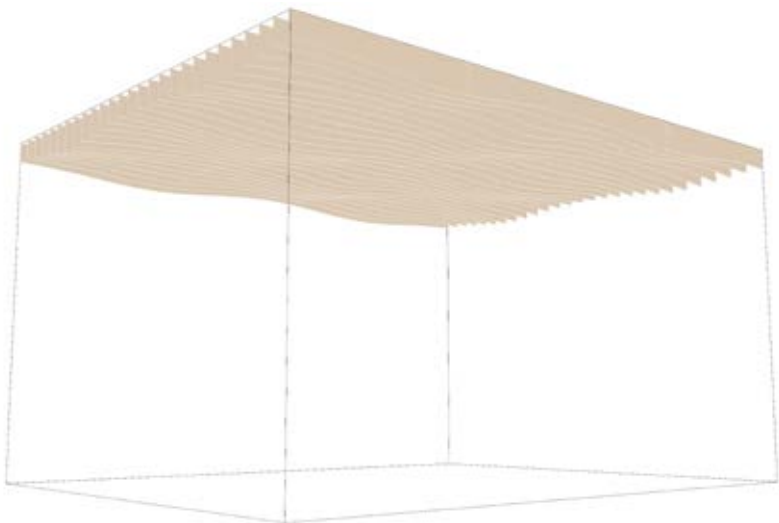
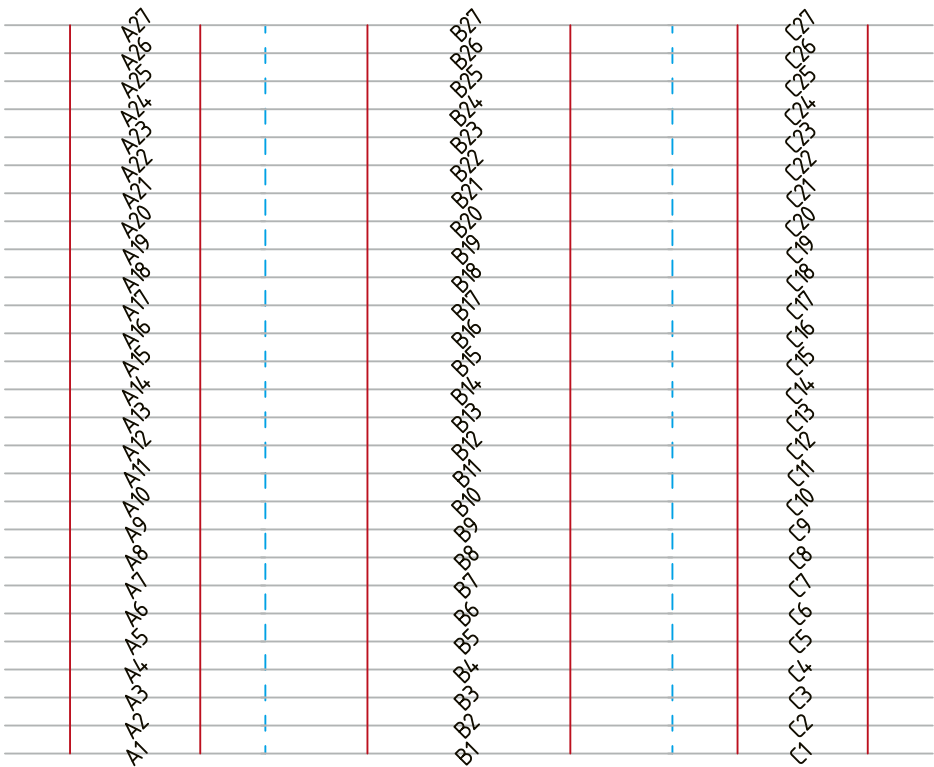


YOUR DESIGN...

INSTALLATION



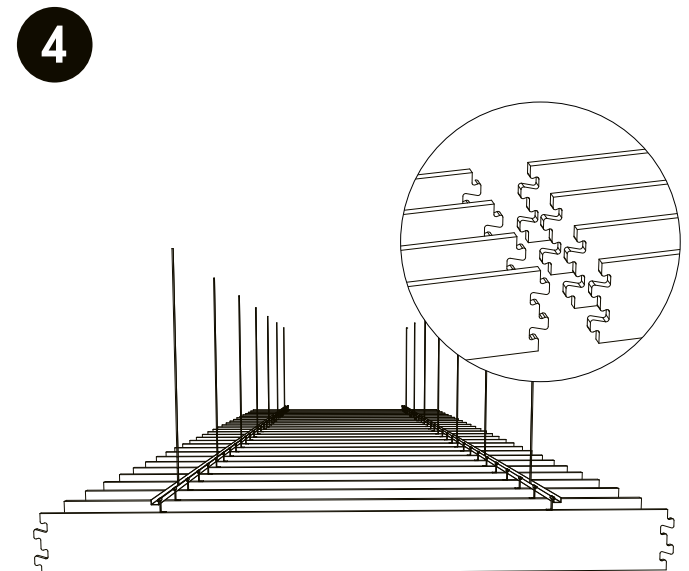
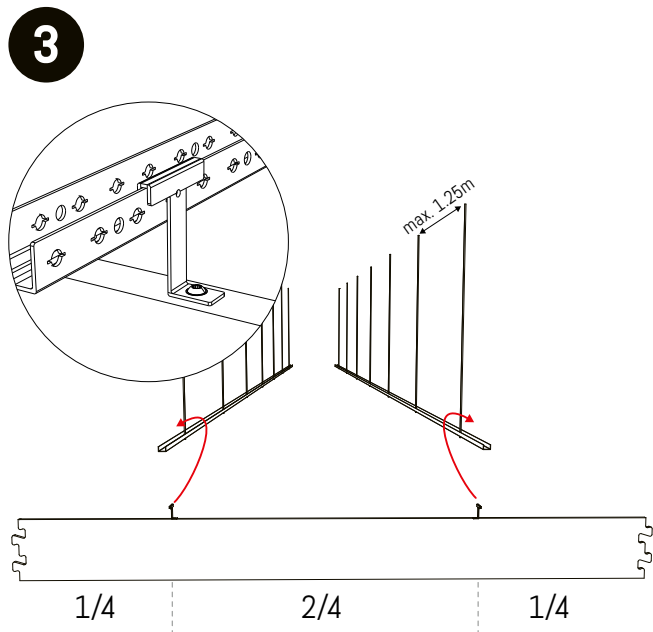
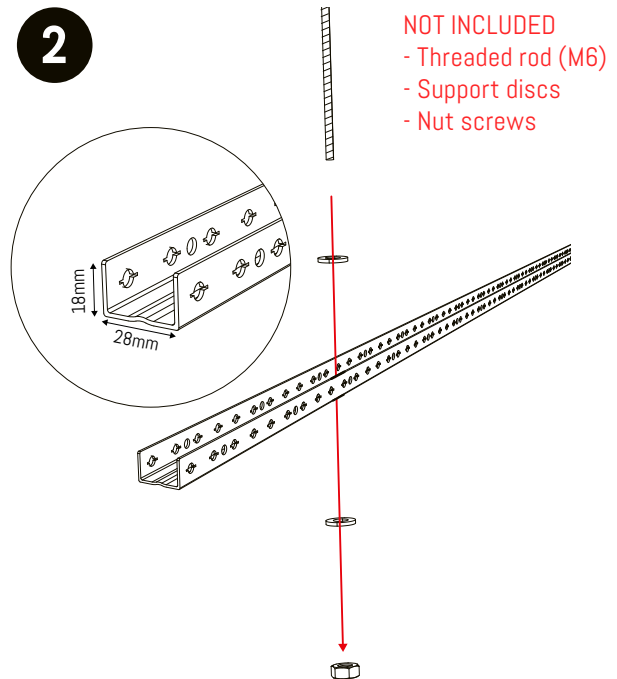
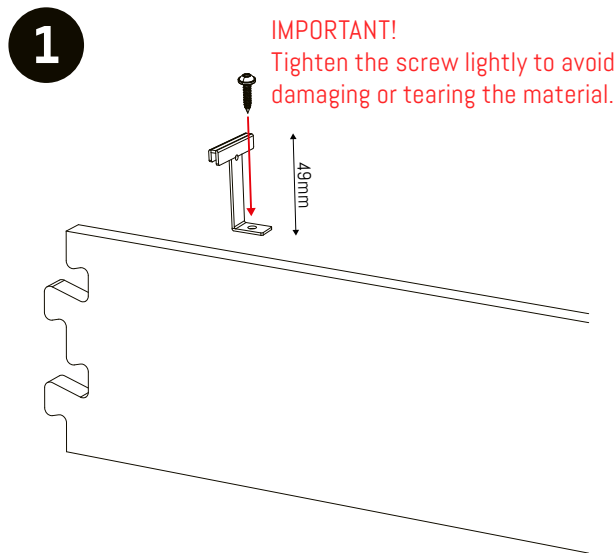
ECHOBaffle® INSTALLATION NUMBERING



INSTALLATION



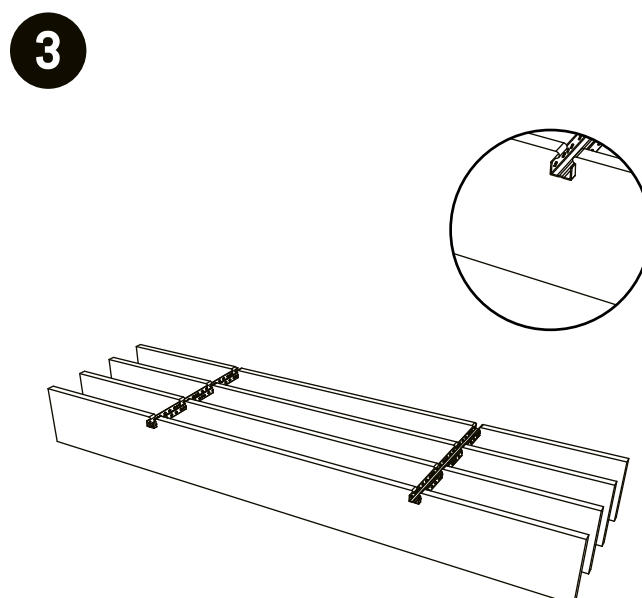
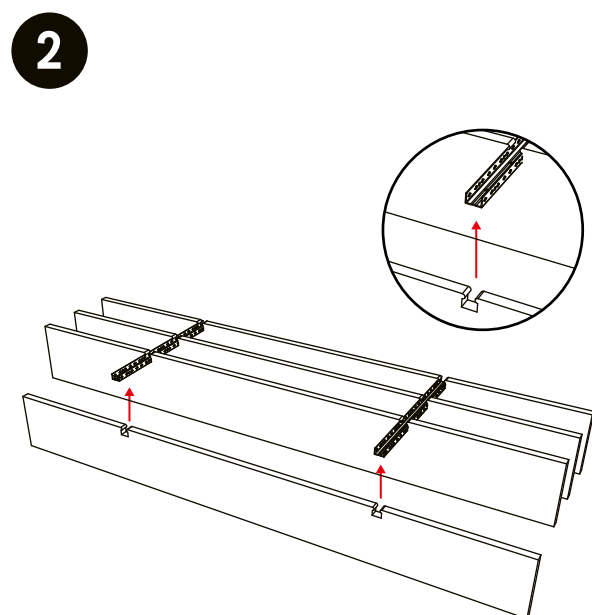
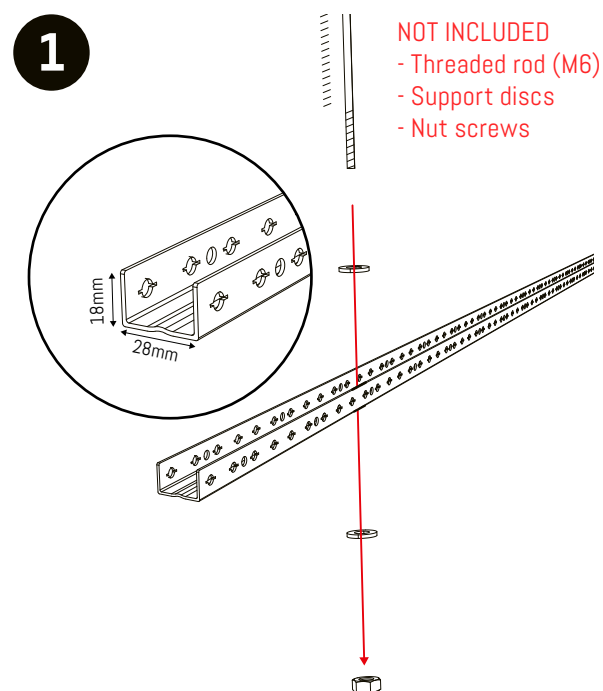
ECHOBaffle® U-PROFILE SUSPENSION AND PUZZLE JOINTS



INSTALLATION



ECHOBaffle® CLIP-IN SUSPENSION FOR CEILING PROFILES (ECHOJAZZ PROFILE)

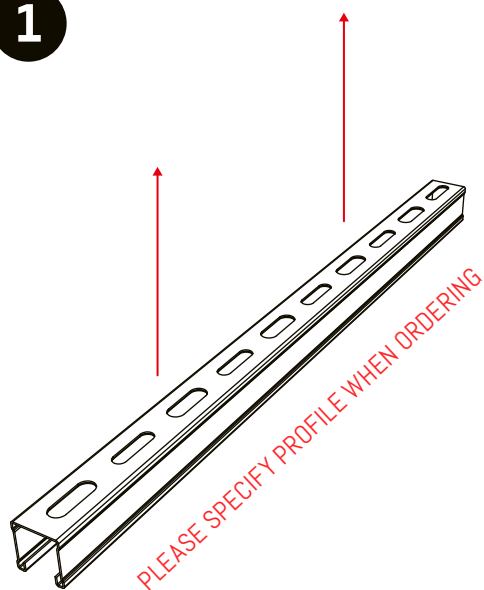


INSTALLATION

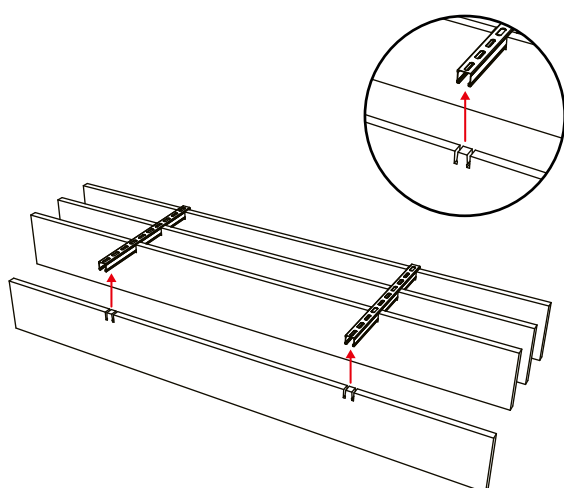


ECHOBaffle® CLIP-IN SYSTEM FOR CEILING PROFILES (THIRD-PARTY PROFILES)

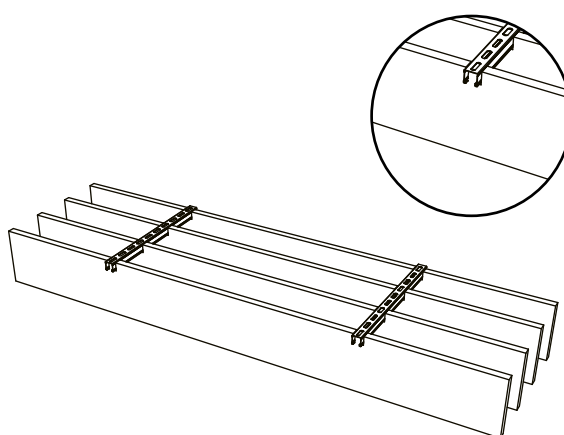
1



2



3



SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



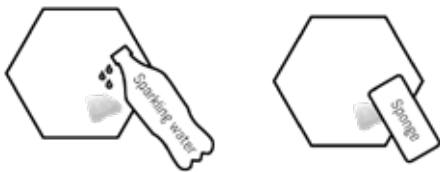
DUSTER/VACUUM CLEANER

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

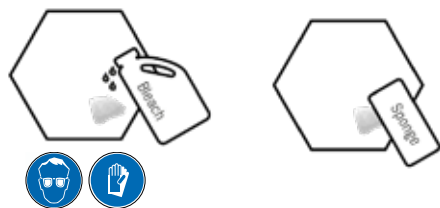
For medium contamination apply upholstery cleaner to polluted area. Wipe carefully with a sponge.



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.