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ECHO**BAFFLE**® 12MM DATASHEET

TABLE OF CONTENTS



ECHOBaffle® 12MM	1
TENDER TEXT	3
DATASHEET ECHOBOARD® 12MM	4
COLOURS ECHOBOARD® 12MM	5
DIMENSIONS	6
ECHOBaffle® 12MM PLAIN M	6
ECHOBaffle® 12MM PLAIN L	7
ECHOBaffle® 12MM VOGUE M	8
ECHOBaffle® 12MM VOGUE L	9
ECHOBaffle® 12MM CORNER M	10
ECHOBaffle® 12MM CORNER L	11
INSTALLATION	12
ECHOBaffle® 12MM PLAIN	12
ECHOBaffle® 12MM VOGUE NUMBERING	13
ECHOBaffle® 12MM CORNER NUMBERING	14
ECHOBaffle® DIRECT GRIPPER SUSPENSION	15
CLEANING & CARE	16

PRODUCT NAME

EchoBaffle® 12mm

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

Thickness: 12mm +/- 5%

Weight: 2400g/m² +/- 5%

ACOUSTIC PERFORMANCE

aw: 0.45

NRC: 0.50

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

- 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/m²/h, certified according to ASTM D5116
- Formaldehyde emission below < 0.1mg/m²/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



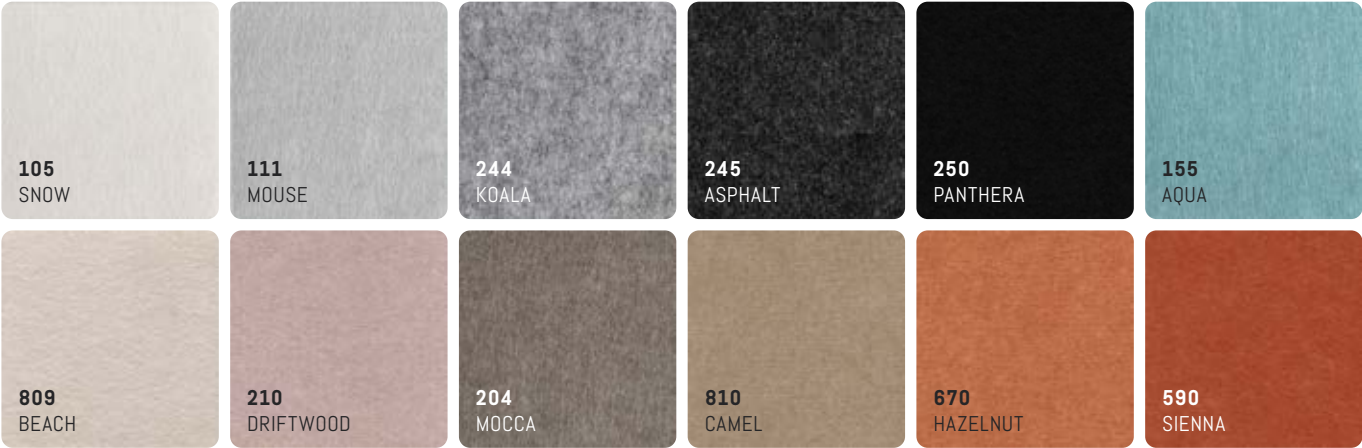
EchoBoard® 12mm is a high quality sound absorber with an α_w of up to 0.90 and a NRC of up to 0.85, which can be used for acoustic ceilings, walls, office desks or room dividers.

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>1.00</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	1.00	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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2000	0.85	1.00	0.95																										
4000	1.00	0.95	0.95																										

COLOURS ECHOBOARD® 12MM



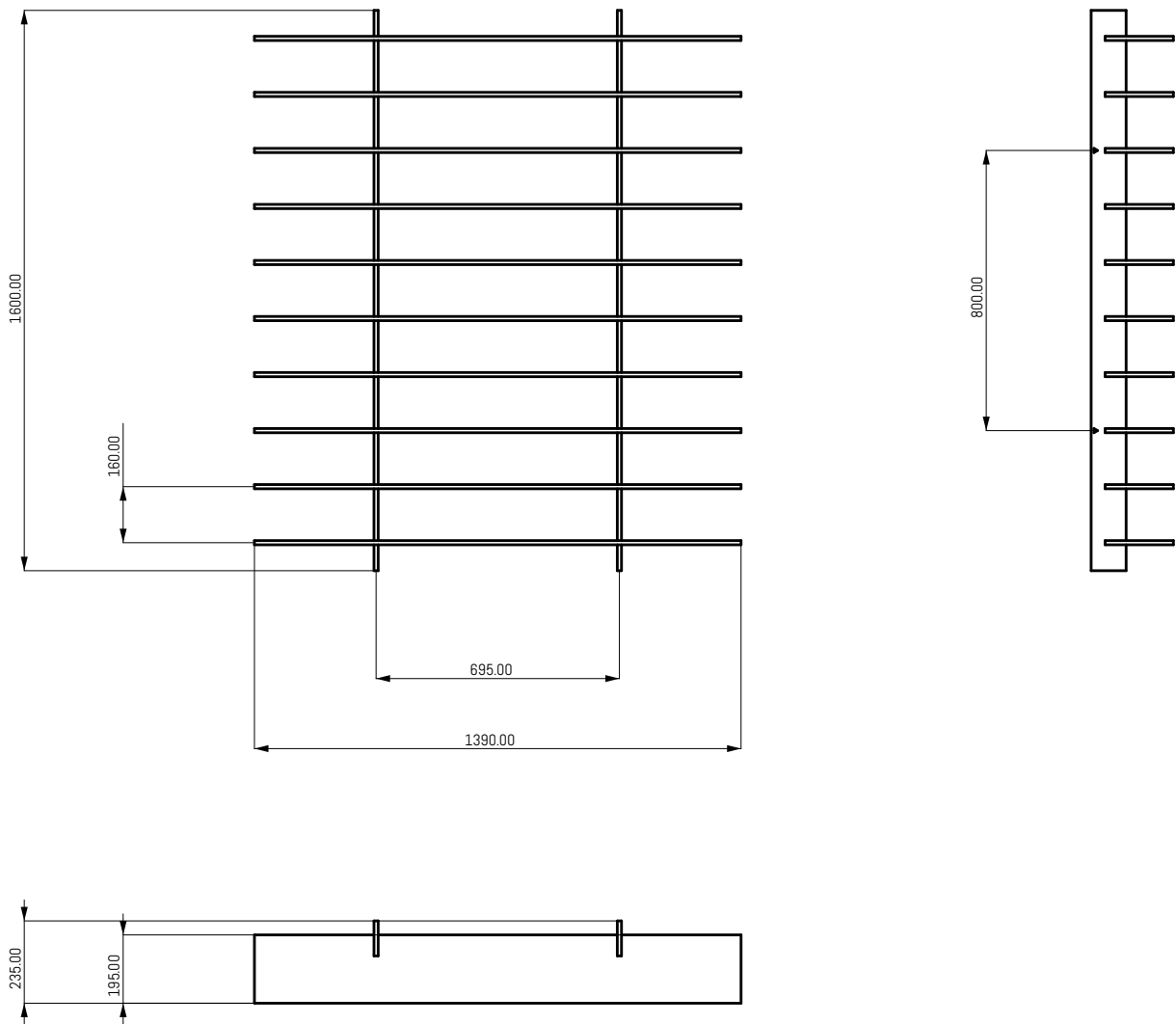
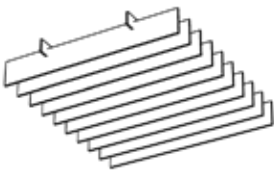
ECHOBOARD® 12MM



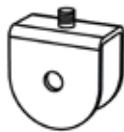
DIMENSIONS



ECHOBAFFLE® 12MM PLAIN M
1031
1390x1600x235mm



PARTS



1x
EchoBaffle® Set
12 Parts

4x
Retaining-Bracket
12mm

4x
Book-binding screw
two-piece 12mm

4x
Gripper

4x
Wire-rope
1500mm x Ø1.5mm

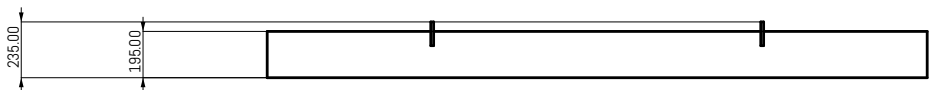
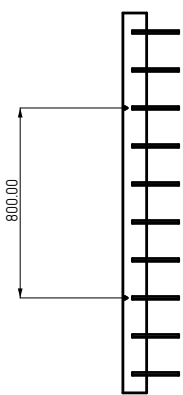
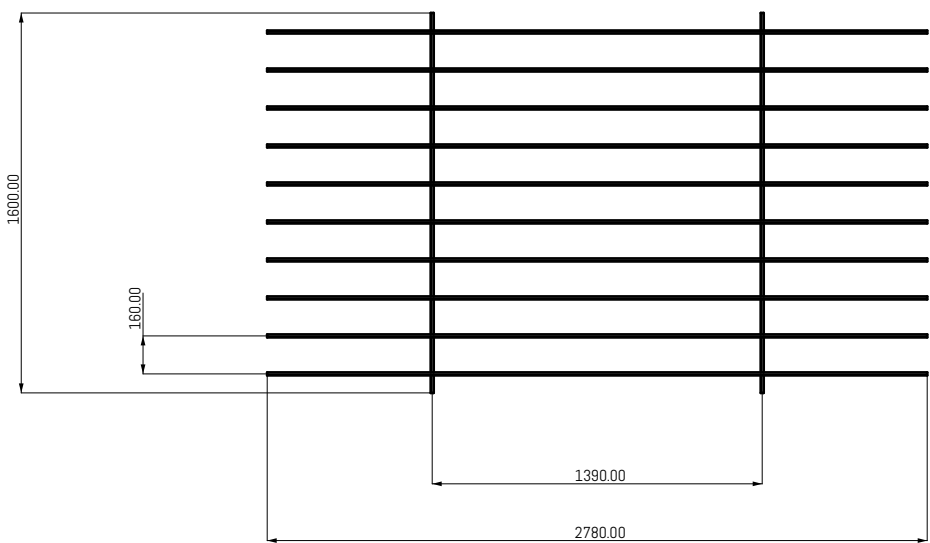
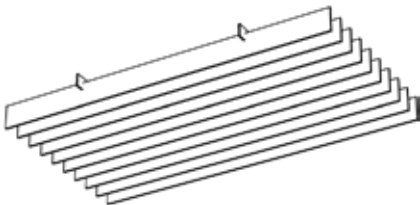
4x
Ceiling anchor
M6 internal thread

4x
Ceiling anchor cap

DIMENSIONS



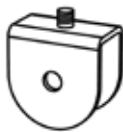
ECHOBAFFLE® 12MM PLAIN L
1032
2780x1600x235mm



PARTS



1x
EchoBaffle® Set
12 Parts



4x
Retaining-Bracket
12mm



4x
Book-binding screw
two-piece 12mm



4x
Gripper



4x
Wire-rope
1500mm x Ø1.5mm



4x
Ceiling anchor
M6 internal thread

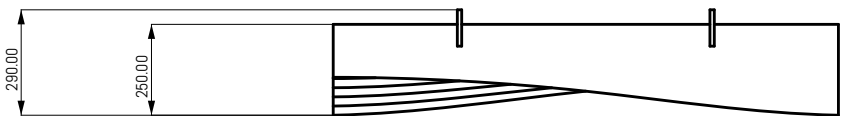
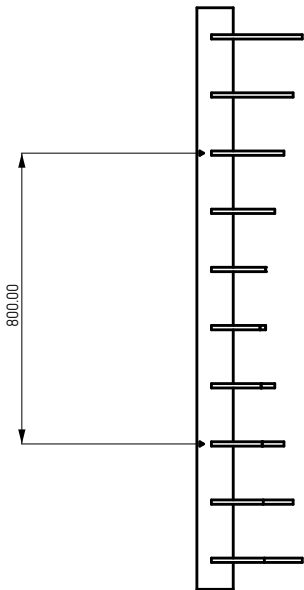
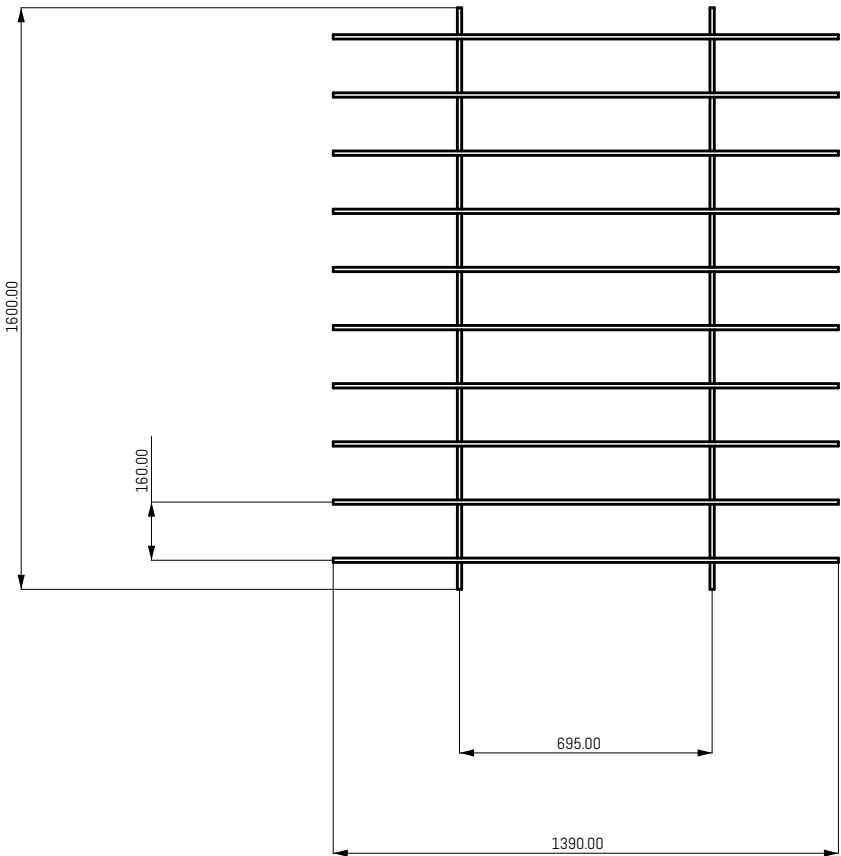
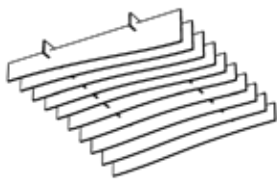


4x
Ceiling anchor cap

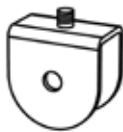
DIMENSIONS



ECHOBAFFLE® 12MM VOGUE M
1033
1390x1600x290mm



PARTS



1x
EchoBaffle® Set
12 Parts

4x
Retaining-Bracket
12mm

4x
Book-binding screw
two-piece 12mm

4x
Gripper

4x
Wire-rope
1500mm x Ø1.5mm

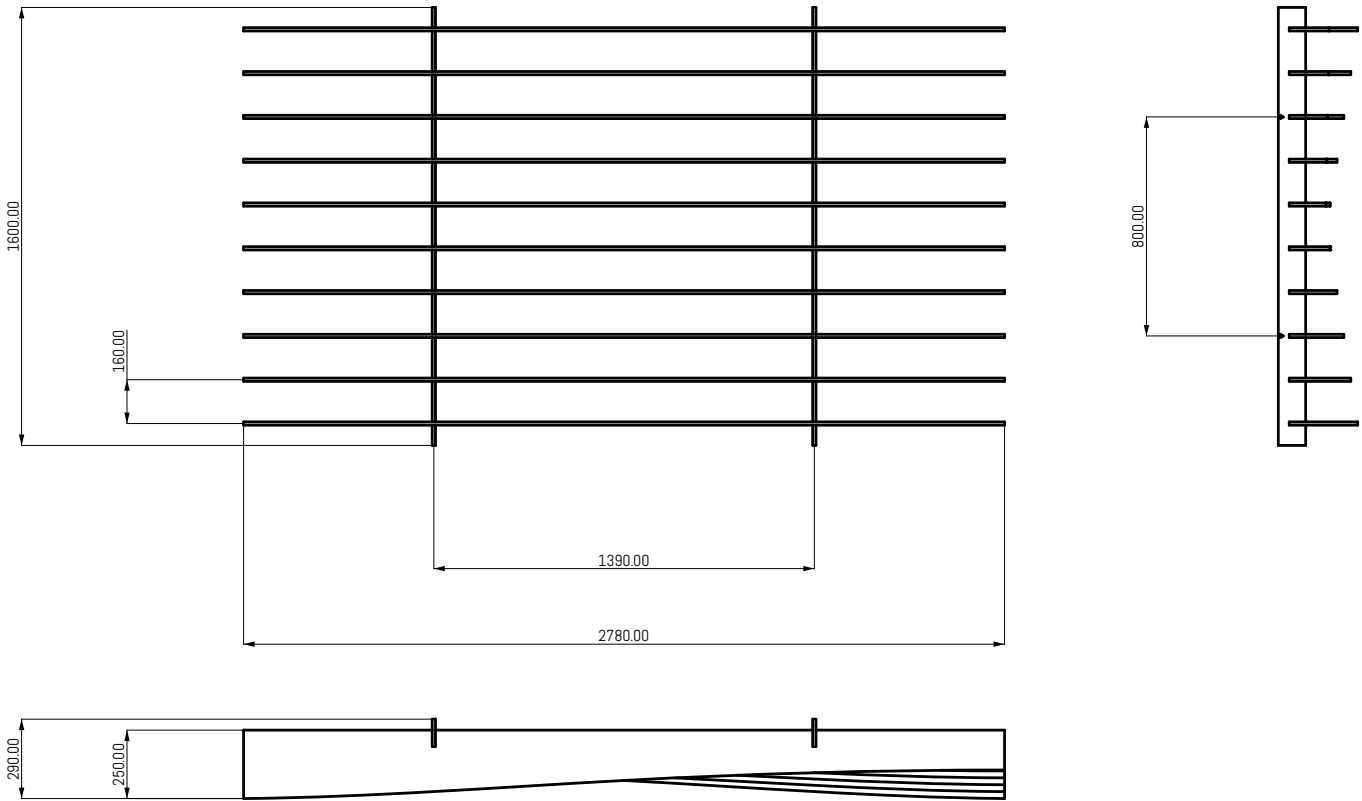
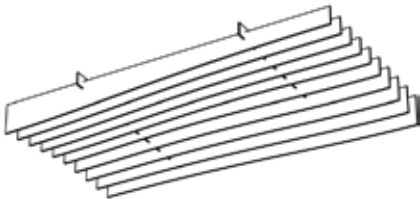
4x
Ceiling anchor
M6 internal thread

4x
Ceiling anchor cap








DIMENSIONS



ECHOBAFFLE® 12MM VOGUE L
1034
2780x1600x290mm



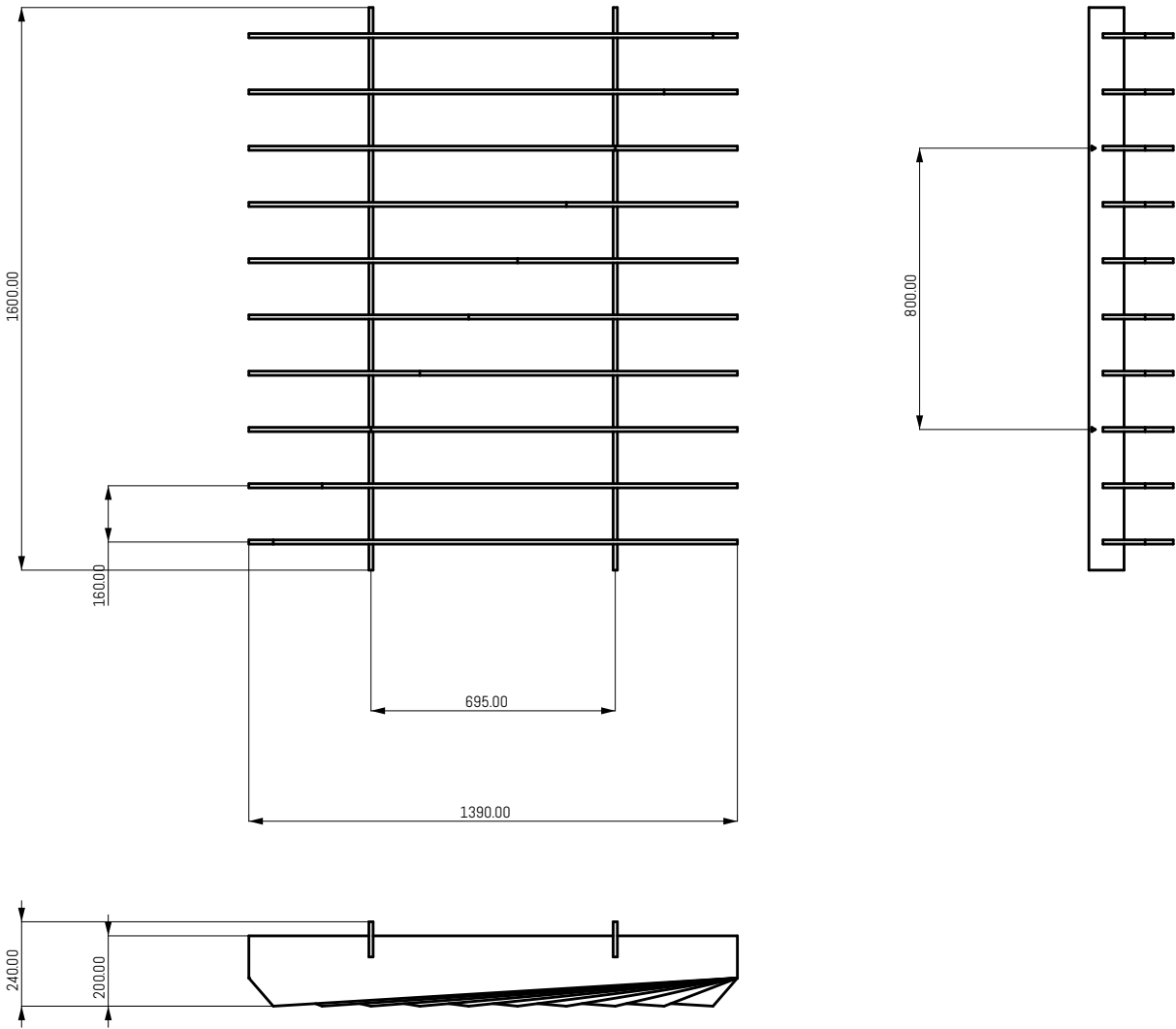
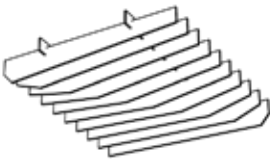
PARTS

						
1x EchoBaffle® Set 12 Parts	4x Retaining-Bracket 12mm	4x Book-binding screw two-piece 12mm	4x Gripper	4x Wire-rope 1500mm x Ø1.5mm	4x Ceiling anchor M6 internal thread	4x Ceiling anchor cap

DIMENSIONS



ECHOBAFFLE® 12MM CORNER M
1029
1390x1600x240mm



PARTS



1x
EchoBaffle® Set
12 Parts

4x
Retaining-Bracket
12mm

4x
Book-binding screw
two-piece 12mm

4x
Gripper

4x
Wire-rope
1500mm x Ø1.5mm

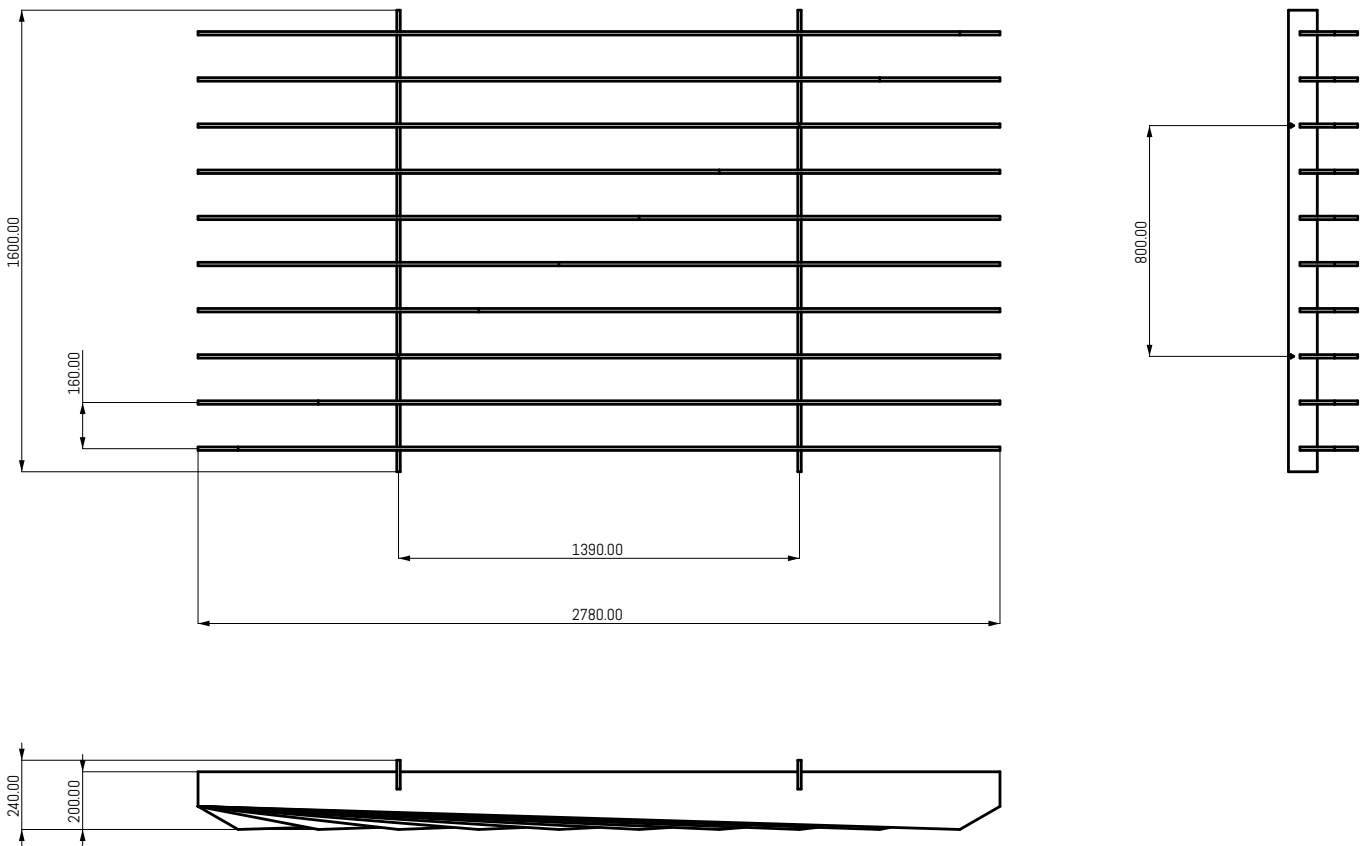
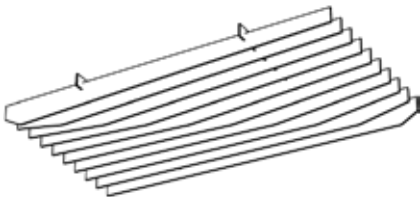
4x
Ceiling anchor
M6 internal thread

4x
Ceiling anchor cap

DIMENSIONS



ECHOBAFFLE® 12MM CORNER L
1030
2780x1600x240mm



PARTS



1x
EchoBaffle® Set
12 Parts



4x
Retaining-Bracket
12mm



4x
Book-binding screw
two-piece 12mm



4x
Gripper



4x
Wire-rope
1500mm x Ø1.5mm



4x
Ceiling anchor
M6 internal thread

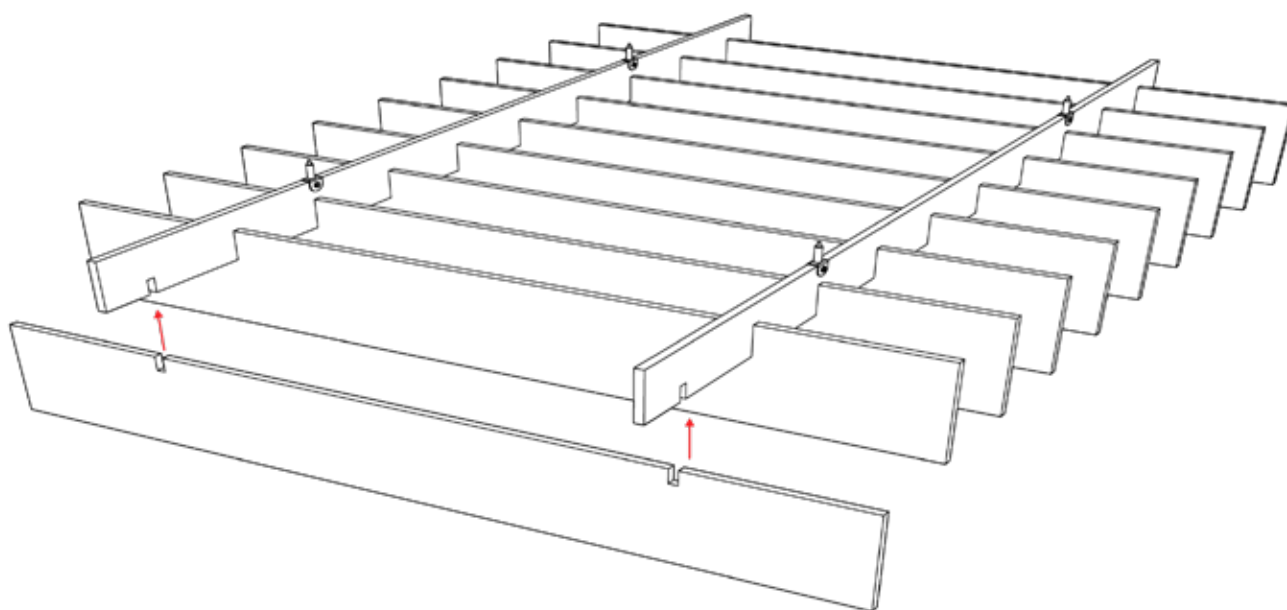


4x
Ceiling anchor cap

INSTALLATION



ECHOBaffle® 12MM PLAIN

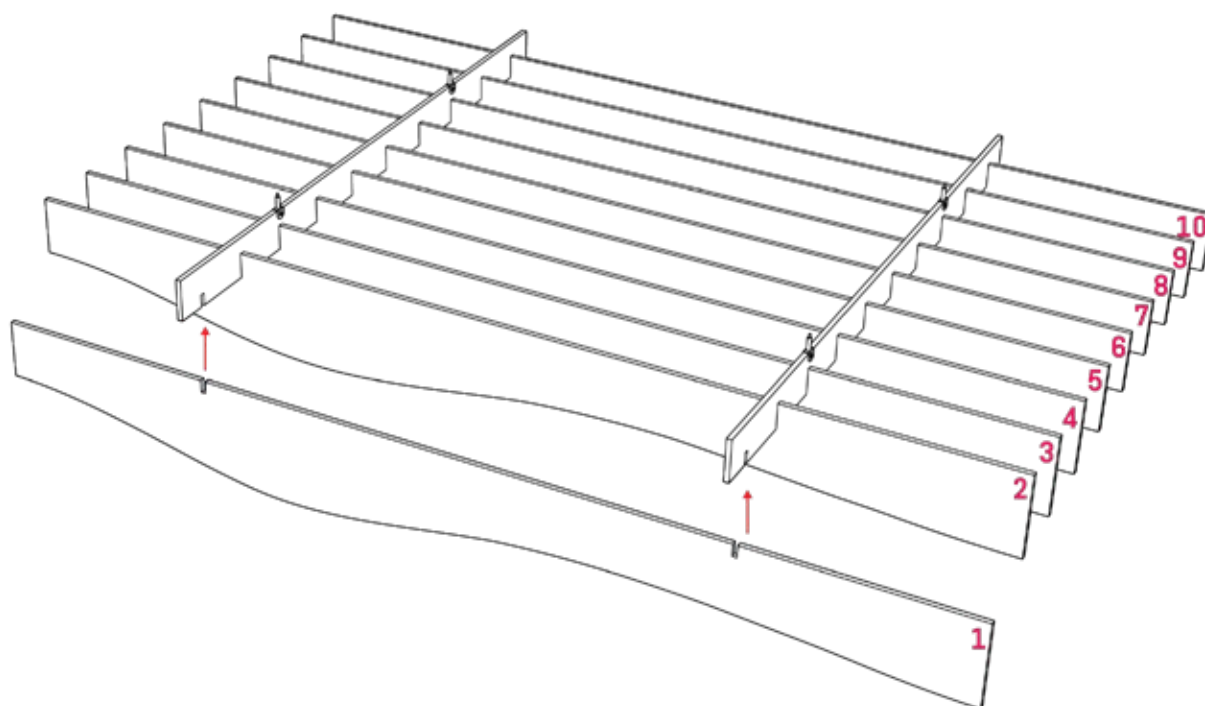


INSTALLATION



ECHOBaffle® 12MM VOGUE NUMBERING

Put the baffle elements together according to the numbers

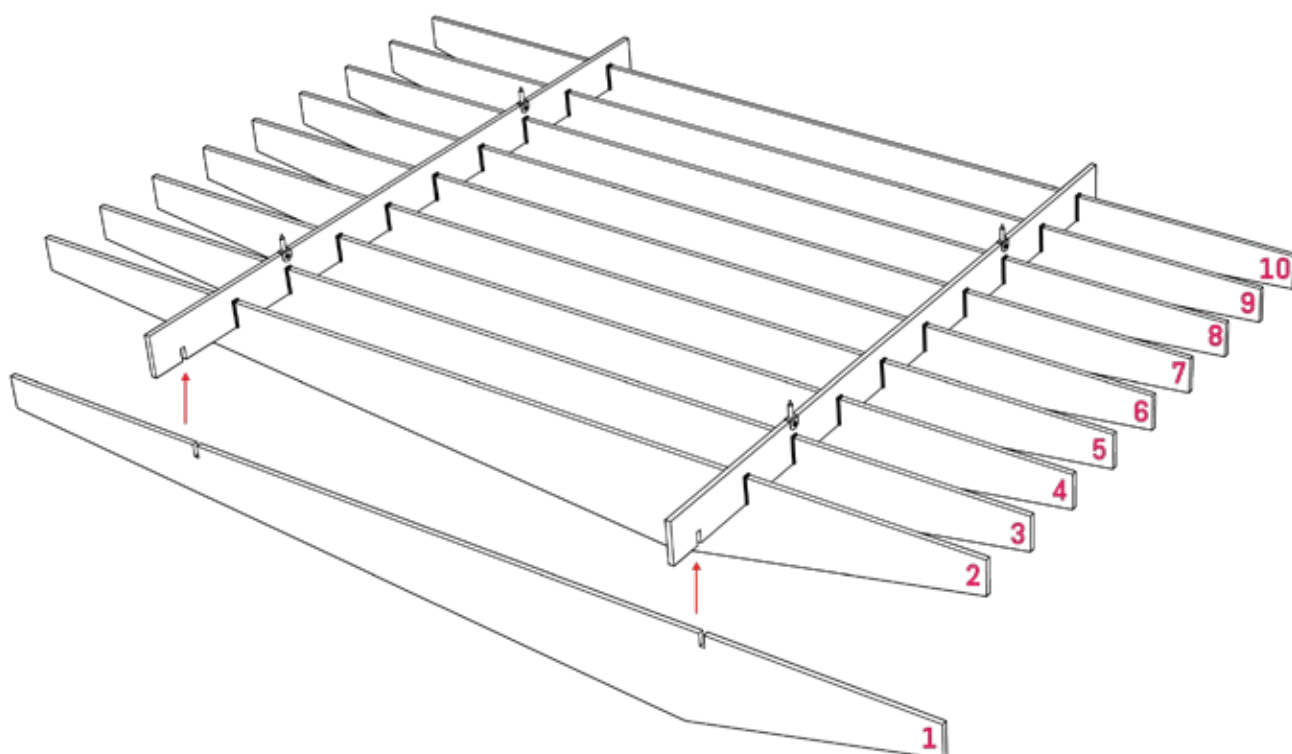


INSTALLATION



ECHOBaffle® 12MM CORNER NUMBERING

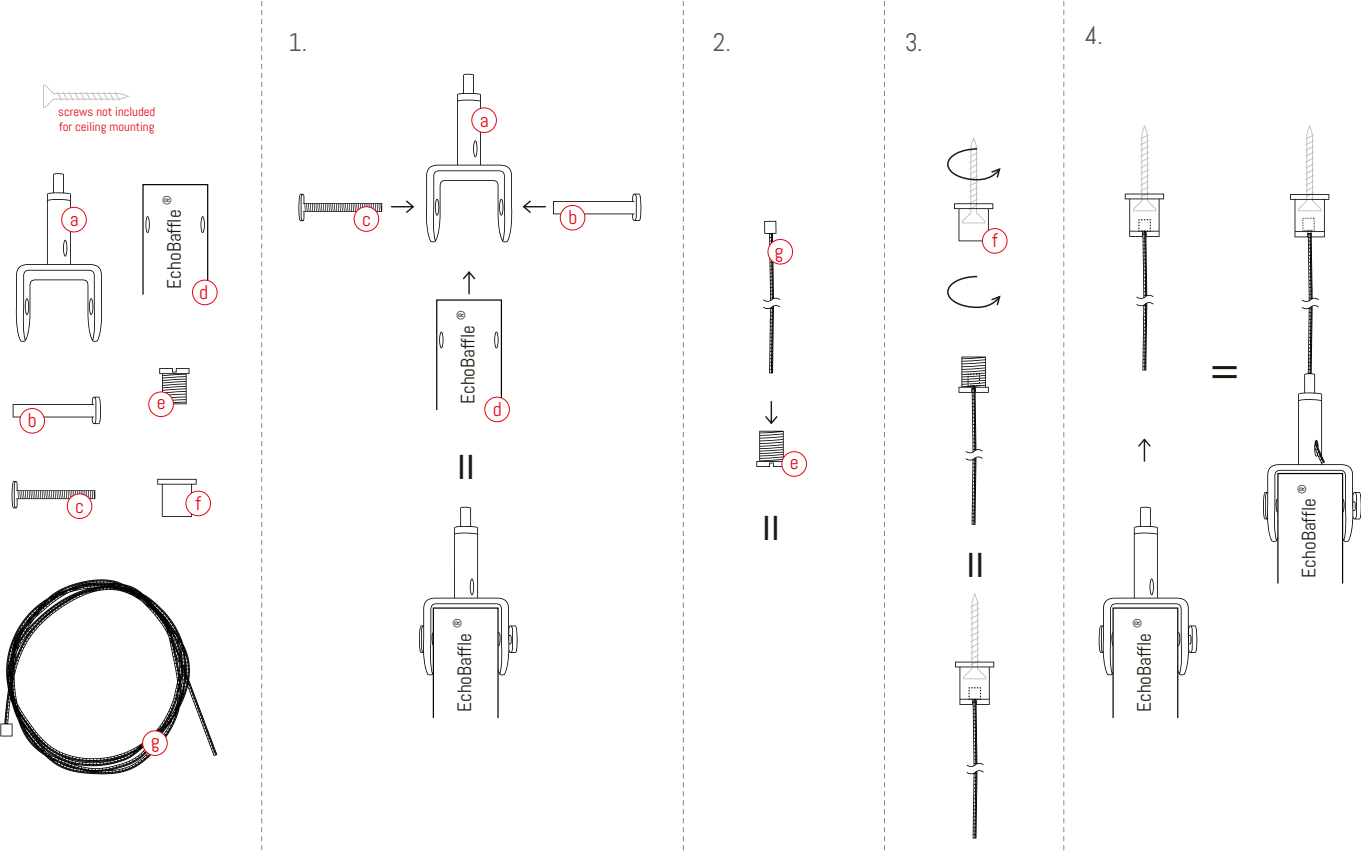
Put the baffle elements together according to the numbers



INSTALLATION



ECHOBAFFLE® DIRECT GRIPPER SUSPENSION



SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



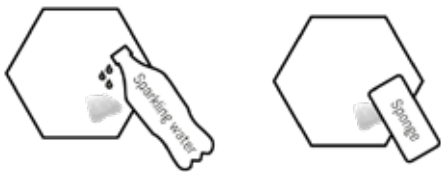
DUSTER/VACUUM CLEANER

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

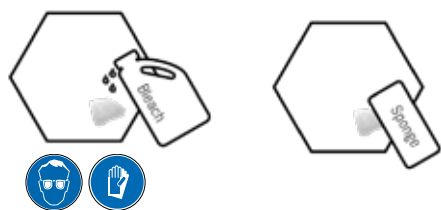
For medium contamination apply upholstery cleaner to polluted area. Wipe carefully with a sponge.



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.