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ECHO**BRICK**[®] 12MM DATASHEET

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TENDER TEXT



PRODUCT NAME

EchoBrick® 12mm

DESCRIPTION

High-performance acoustic sound absorber with textile surface made of 100% PET.

EchoBrick® is an attractive wall absorber solution for acoustically enhancing unused wall surfaces. Similar to a mosaic, EchoBrick® enables individual wall designs in shapes, colours and dimensions. Thanks to chamfered edges, the acoustic tiles can be combined seamlessly and without shadow gaps. Installation is very simple using EchoGlue® spray contact adhesive.

Designing with the acoustically highly effective tiles in various shapes, colours and thicknesses is ideal for unique wall styling beyond rectangular surfaces. EchoBrick not only creates a pleasant atmosphere and muffles annoying fluttering echoes, but is above all an impressive design statement.

PRODUCT PROPERTIES

Thickness: 12mm

Weight: 2400g/m² (± 10%)

ACOUSTIC PERFORMANCE

aw: 0.25-0.85

NRC: 0.35-0.90

INSTALLATION

- Quick installation with EchoGlue® contact adhesive
- Suitable for use in rooms as well as roofed outdoor area
- Very easy to trim with a knife

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 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.

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/m ² (± 10%)																												
MATERIAL THICKNESS	12mm																												
LIGHT FASTNESS ISO 105-B02-1994	> 7																												
FIRE PROTECTION EN 13501	B-s1, d0																												
VOC EMISSIONS ASTM D5116	< 0.5mg/m ² /h																												
FORMALDEHYDE EMISSIONS ASTM D5116	< 0.1mg/m ² /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	<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). The 200mm distance configuration consistently shows the highest absorption, reaching approximately 0.95 at 4000 Hz. The 50mm distance configuration reaches about 0.95 at 1500 Hz. The direct mounting configuration starts near 0.00 and reaches about 1.00 at 4000 Hz.</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>0.50</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>0.40</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>1.00</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	0.50	250	0.05	0.25	0.80	500	0.15	0.60	0.95	1000	0.40	0.90	0.80	2000	0.80	0.95	0.95	4000	1.00	0.95	0.95
Frequency (Hz)	Direct Mount (aw)	50mm Distance (aw)	200mm Distance (aw)																										
125	0.02	0.10	0.50																										
250	0.05	0.25	0.80																										
500	0.15	0.60	0.95																										
1000	0.40	0.90	0.80																										
2000	0.80	0.95	0.95																										
4000	1.00	0.95	0.95																										

COLOURS ECHOBOARD® 12MM



ECHOBOARD® 12MM



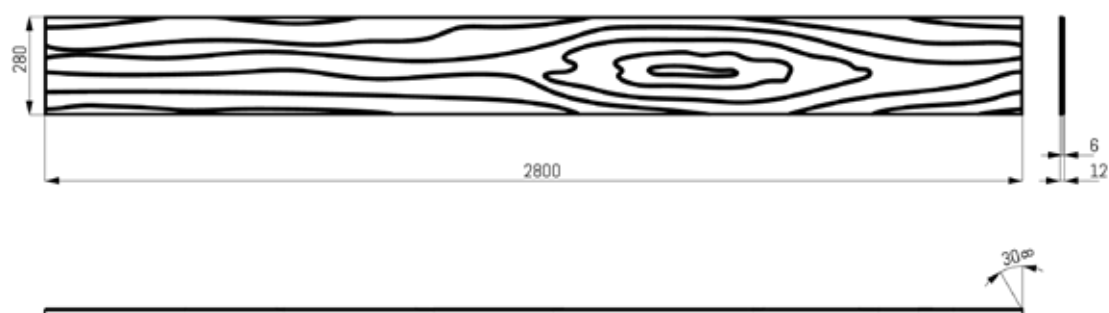
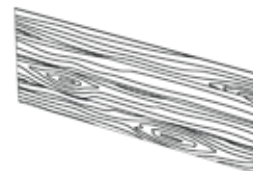
DIMENSIONS & PARTS



ECHOBRICK® 12MM BOLLIWOOD

1011

2800x280x12mm (Set of 4)



PARTS



4x
EchoBrick®



1x
EchoGlue® Spray glue

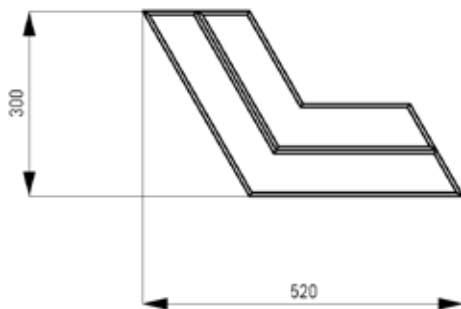
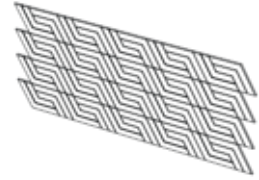
DIMENSIONS & PARTS



ECHOBRICK® 12MM BOOMERANG

1299

520x300x12mm (Set of 40)



PARTS



40x
EchoBrick®

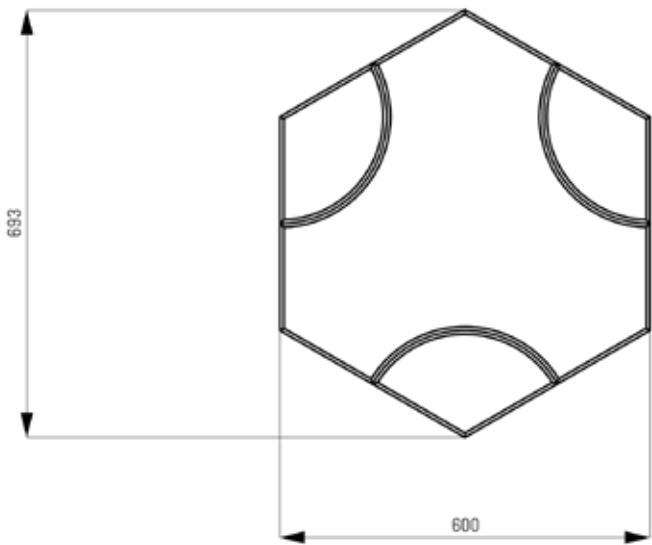
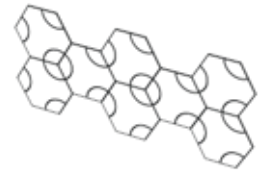


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM CELL
1300
600x693x12mm (Set of 8)



PARTS



8x
EchoBrick®

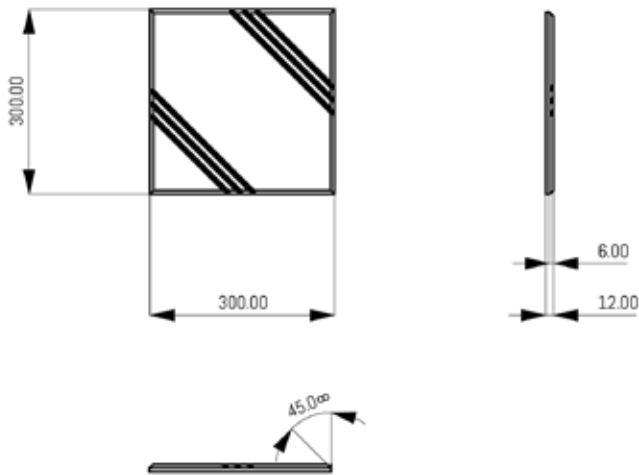
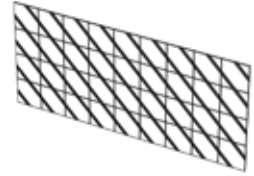


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM DIAGONAL M
1301
300x300x12mm (Set of 36)



PARTS



36x
EchoBrick®

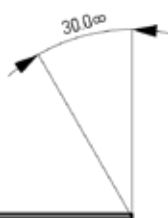
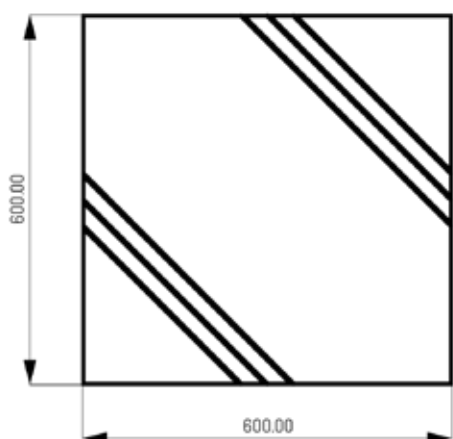
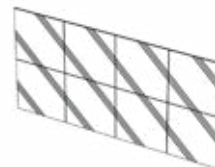


1x
EchoGlue® Spray glue

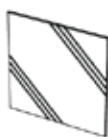
DIMENSIONS & PARTS



ECHOBRICK® 12MM DIAGONAL L
1302
600x600x12mm (Set of 8)



PARTS



8x
EchoBrick®

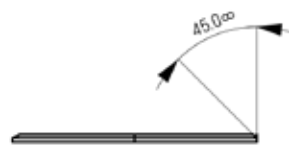
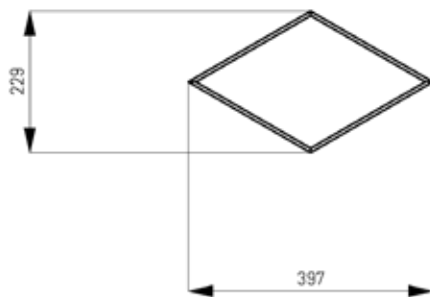
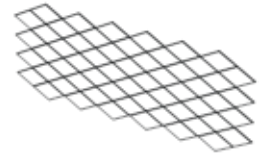


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM DIAMOND M
1303
397x229x12mm (Set of 58)



PARTS



58x
EchoBrick®

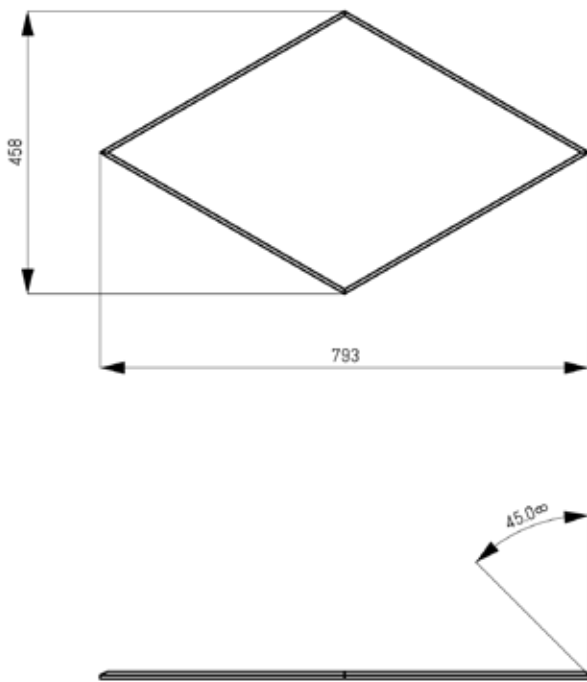
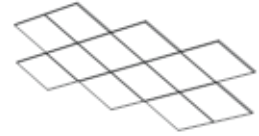


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM DIAMOND L
1337
793x458x12mm (Set of 12)



PARTS



12x
EchoBrick®



1x
EchoGlue® Spray glue

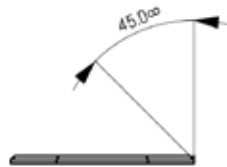
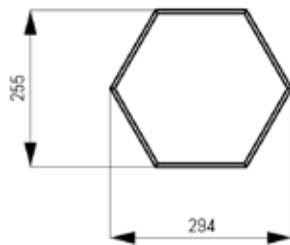
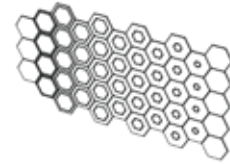
DIMENSIONS & PARTS



ECHOBRICK® 12MM GRADIENT

1537

255x294x12mm (Set of 48)



PARTS



48x
EchoBrick®

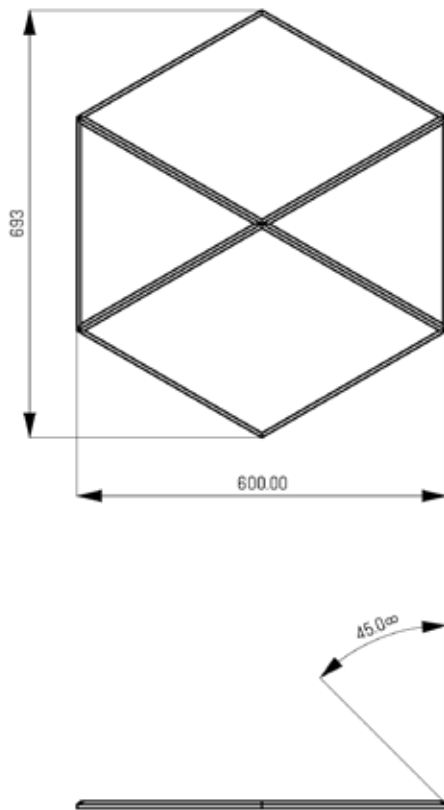


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM KALEIDO
1476
600x693x12mm (Set of 8)



PARTS



8x
EchoBrick®

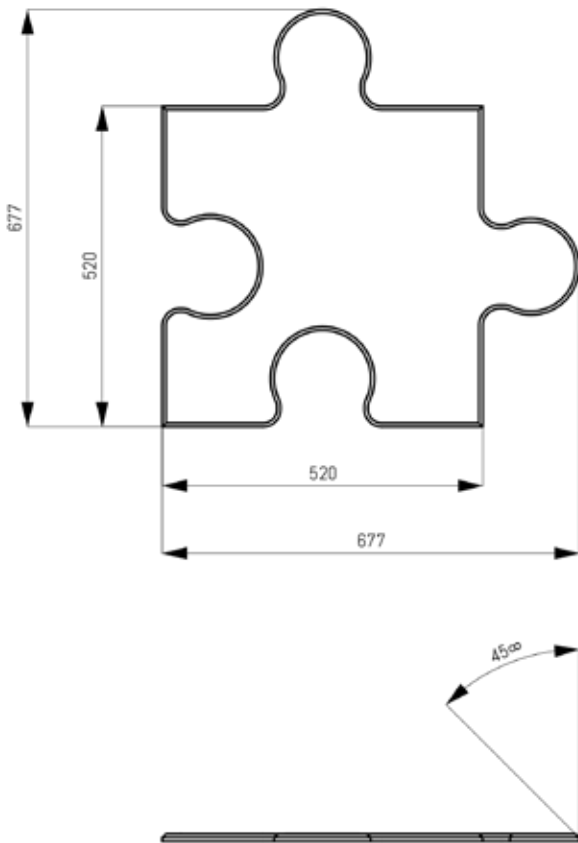
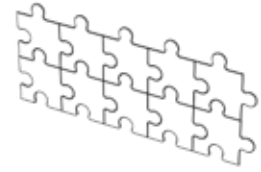


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM PUZZLE
1570
677x677x12mm (Set of 10)



PARTS



10x
EchoBrick®

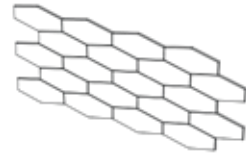


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM SHIELD
1574
590x288x12mm (Set of 20)



PARTS



20x
EchoBrick®



1x
EchoGlue® Spray glue

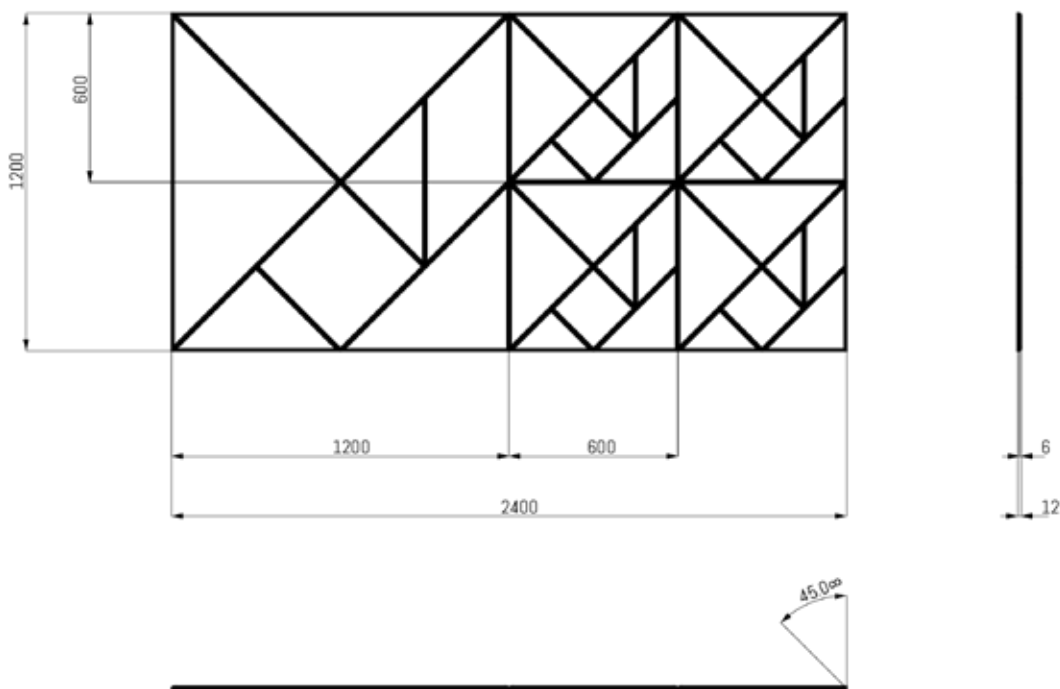
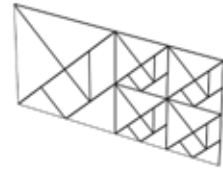
DIMENSIONS & PARTS



ECHOBRICK® 12MM TANGRAM

1575

2800x1200x12mm (Set of 35)



PARTS



35x
EchoBrick®

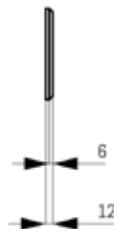
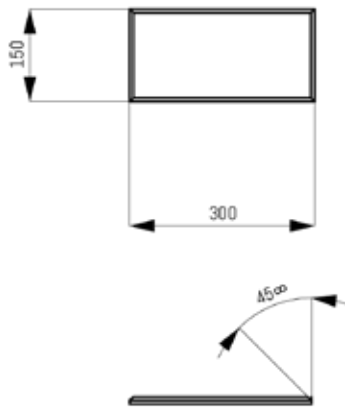
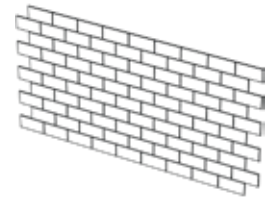


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM WALL M
1583
300x150x12mm (Set of 72)



PARTS



72x
EchoBrick®

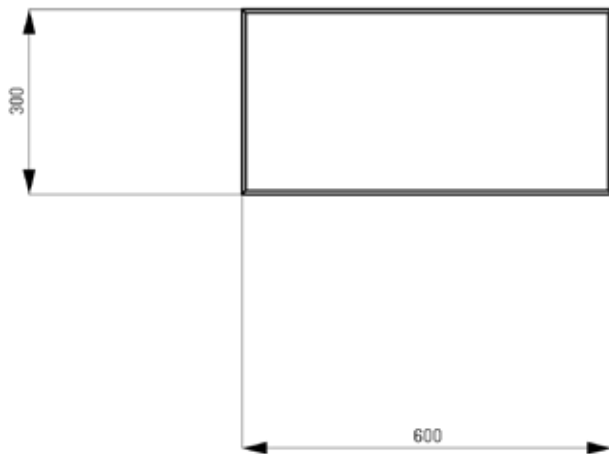
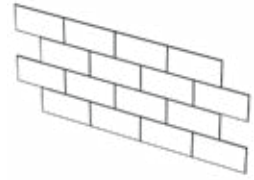


1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM WALL L
1584
600x300x12mm (Set of 18)



PARTS



18x
EchoBrick®



1x
EchoGlue® Spray glue

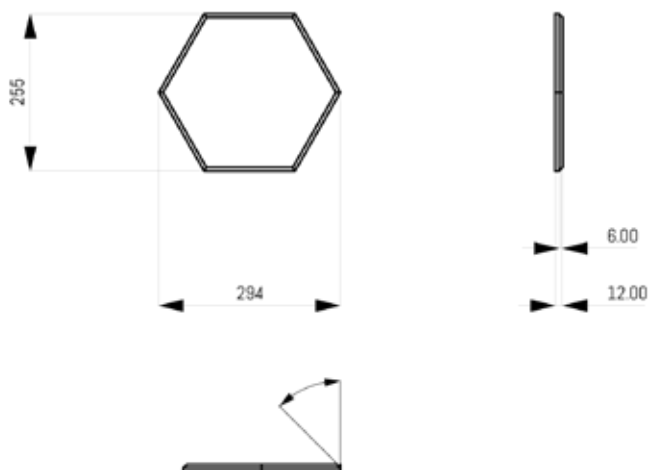
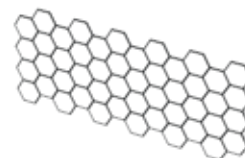
DIMENSIONS & PARTS



ECHOBRICK® 12MM HEXAGON M

1383

294x255x12mm (Set of 48)



45°

PARTS



48x
EchoBrick®



1x
EchoGlue® Spray glue

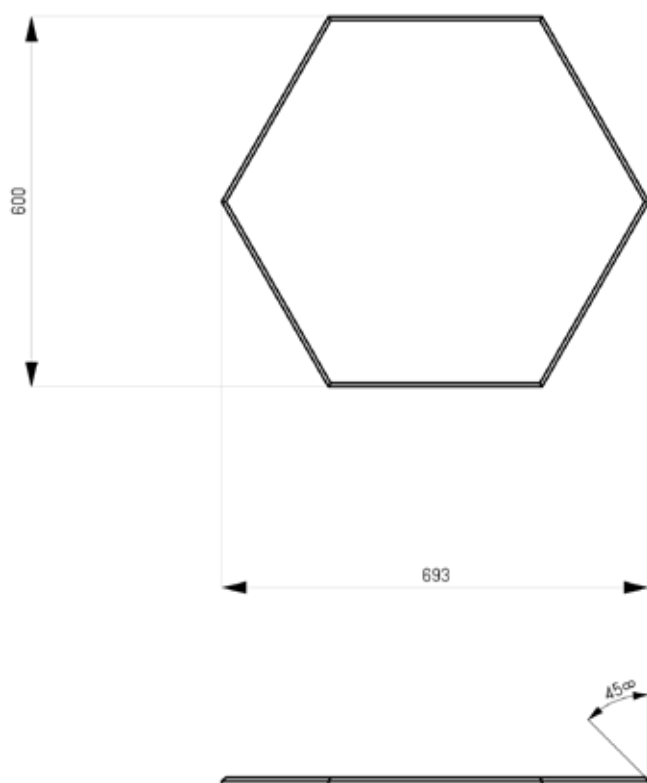
DIMENSIONS & PARTS



ECHOBRICK® 12MM HEXAGON L

1415

600x693x12mm (Set of 8)



PARTS



8x
EchoBrick®



1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM PLANK M
1553
1400x300x12mm (Set of 8)



PARTS



8x
EchoBrick®



1x
EchoGlue® Spray glue

DIMENSIONS & PARTS



ECHOBRICK® 12MM PLANK L
1565
2800x300x12mm (Set of 4)



PARTS



4x
EchoBrick®



1x
EchoGlue® Spray glue

INSTALLATION



ECHOGLUE®

EchoGlue® is a sprayable contact adhesive for interior fittings, floor installation, etc. Thanks to its excellent adhesive strength, EchoGlue® is ideal for most permanent joints. The spray adhesive has been specially developed for professional applications. After curing, the adhesive is non-flammable.

FUNCTION/USE

Shake well before use. Hold the spray nozzle approx. 10 centimeters above the surface. Apply the adhesive evenly in strips on both surfaces which should be glued together. Do not overlap the adhesive stripes. To ensure optimum results, EchoGlue® should be used at temperatures of at least 10 - 25°C (ideally 20°C). Always apply the adhesive all over both surfaces and allow to dry for approx. 1-2 minutes until the solvents have completely evaporated. The open time is approx. 4 hours. With difficult materials, in the edge area or very absorbent substrates, such as blockboard or plywood, a double application is recommended. Press both surfaces firmly together (pressure approx. 2.5 to 3 kg/cm²) to ensure a good bond. Bonded materials can be processed immediately. The final curing of the adhesive takes place after approx. 24 hours.

DISCLAIMER

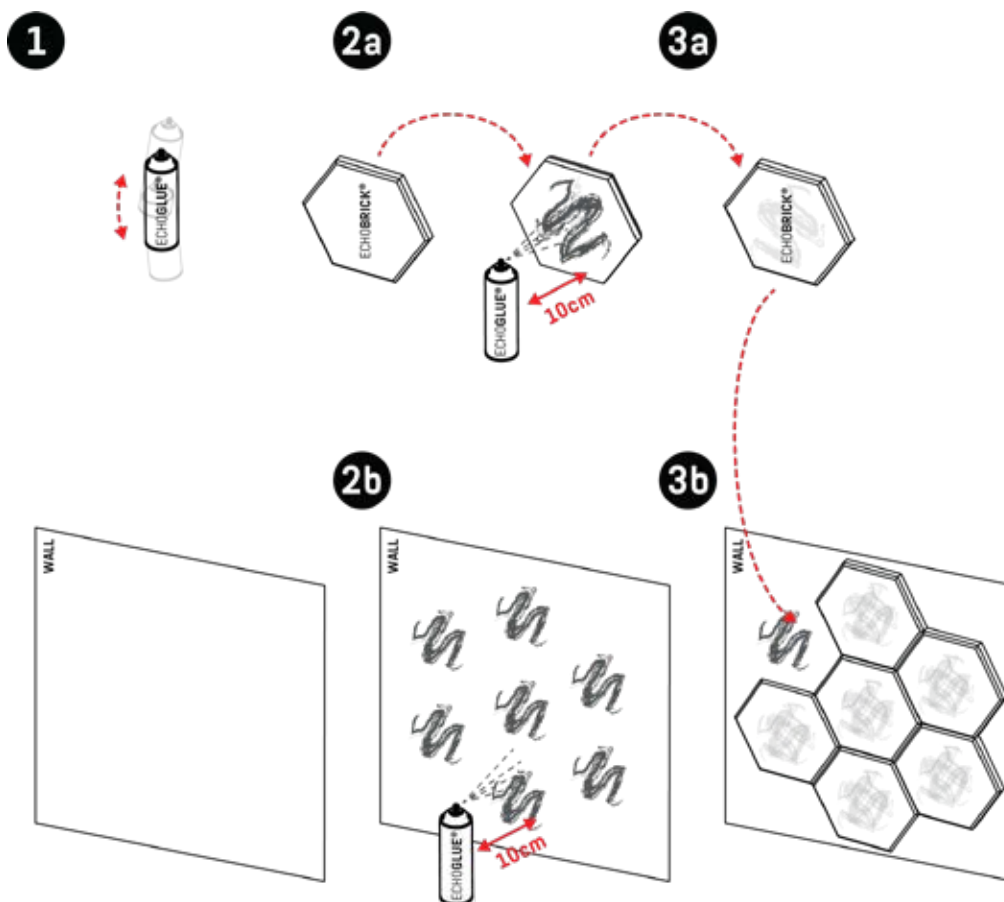
We always recommend a prior test bonding with your materials. It is the responsibility of the user to verify that EchoGlue® is suitable for the application. As softening agents can damage or destroy the adhesive, we recommend that you consult our technical department before bonding plasticized products, such as PVC, CV coverings, artificial leather, etc., for testing their materials.

USER INFORMATION

To prevent the spray nozzle from clogging: After finishing work, turn the can over and spray until only gas escapes.

IMPORTANT NOTES

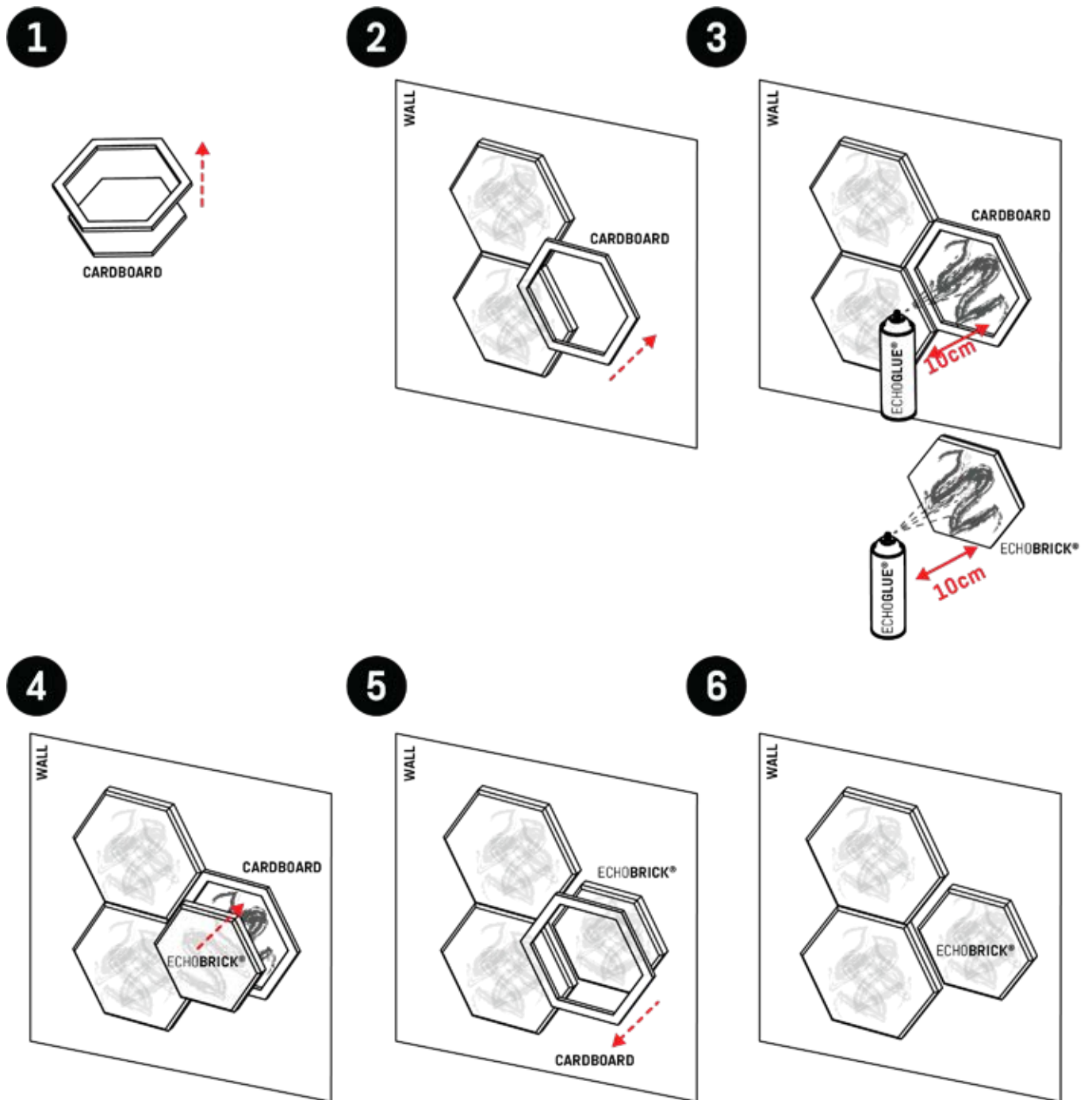
For commercial users only. Vapours can form explosive mixtures with air. Use only in a well-ventilated environment. In case of watery eyes or headaches and dizziness, increase the supply of fresh air or leave the room. For your own safety, wear approved respirator, eye, hand and body protection equipment. Avoid contact with eyes, skin and clothing. Read safety data sheet and user instructions before use.



INSTALLATION



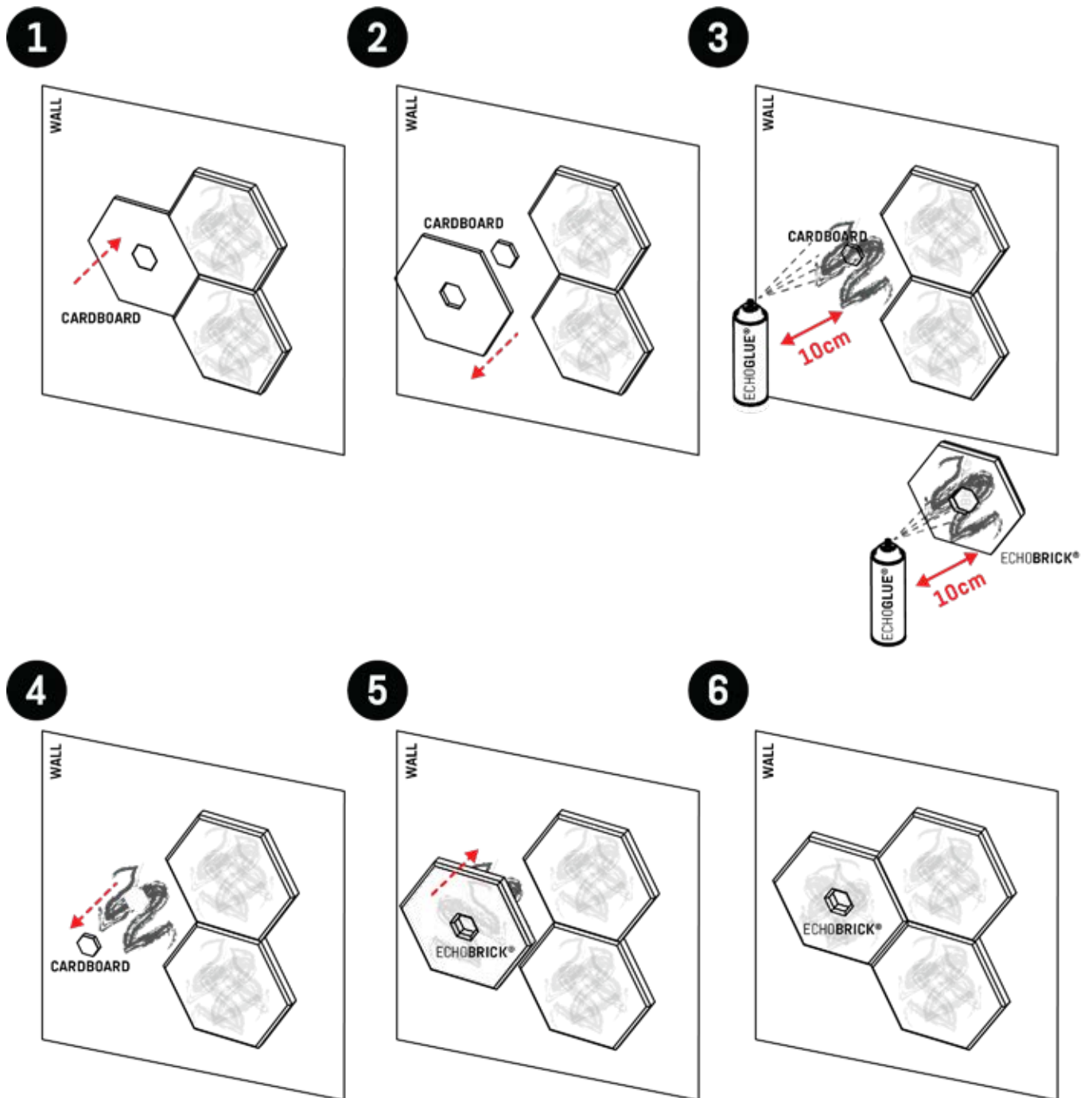
ECHOBRICK® GRADIENT - CARDBOARD OUTSIDE



INSTALLATION



ECHOBRICK® GRADIENT - CARDBOARD INSIDE



CLEANING & CARE

SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



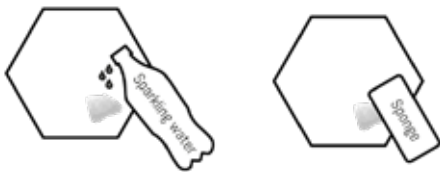
DUSTER/VACUUM CLEANER

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

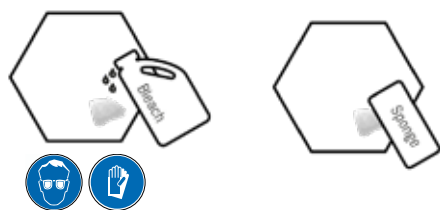
For medium contamination apply upholstery cleaner to polluted area. Wipe carefully with a sponge.



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.