



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

ECHOLED® 12MM CONE DATASHEET

TABLE OF CONTENTS



ECHOLED® 12MM CONE	1
TENDER TEXT	3
DATASHEET ECHOBOARD® 12MM	4
ECHOLED® CONE SPOT	5
COLOURS ECHOBOARD® 12MM	6
DIMENSIONS & PARTS	7
ECHOLED® 12MM CONE XS VERTIGO	7
ECHOLED® 12MM CONE XS WAVY	8
ECHOLED® 12MM CONE S VERTIGO	9
ECHOLED® 12MM CONE S WAVY	10
ECHOLED® 12MM CONE M VERTIGO	11
ECHOLED® 12MM CONE M WAVY	12
ECHOLED® 12MM CONE L VERTIGO	13
ECHOLED® 12MM CONE L WAVY	14
ECHOLED® 12MM CONE XL VERTIGO	15
ECHOLED® 12MM CONE XL WAVY	16
INSTALLATION	17
ECHOLED® CONE - SAFETY HOOK	17
ECHOLED® CONE - DIRECT SUSPENSION	18
ECHOLED® CONE - ELECTRICAL INSTALLATION	19
CLEANING & CARE	20

PRODUCT NAME

EchoLED® 12mm CONE

DESCRIPTION

High-performance acoustic pendant luminaire with textile surface made of 100% PET.

The EchoLED® CONE acoustic pendant light is ideal for open spaces with decorative requirements. The classic cone-shaped lampshade made of EchoBoard® effectively dampens sound. The quality spotlight with black reflector achieves a brightness of minimum 1680 Lumens, with an energy-efficient power consumption of 20 watt.

EchoLED® CONE is available in five sizes, the lampshade made of PET acoustic material contains up to 360 recycled PET bottles. The ceiling lamp is particularly appealing thanks to the different material thicknesses, the 21 expressive colours and varying designs.

PRODUCT PROPERTIES

- Supply voltage: 220-240V 50/60Hz
- Protection type/class: IP20 / protection class II
- Colour consistency: CRI > 90
- Lifetime: > 50'000 h (L80 B10)
- Vacuum-vapourised aluminium reflector
- UGR: < 16
- Lumen: 1680-2740lm
- Light colour: 4000K
- System power: 18-25W

ACOUSTIC PERFORMANCE

aw: 0.85

NRC: 0.90

INSTALLATION

- Suitable for use indoors as well as covered outdoor areas
- Easily height-adjustable

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/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 (aw)</th><th>50mm Distance (aw)</th><th>200mm Distance (aw)</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>	Frequency (Hz)	Direct Mount (aw)	50mm Distance (aw)	200mm Distance (aw)	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
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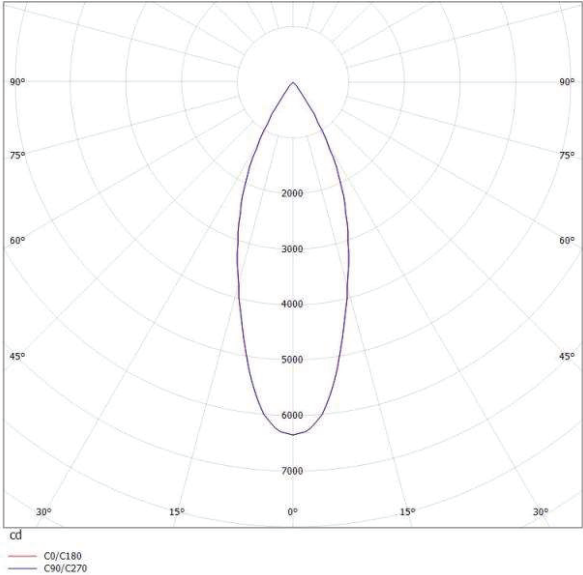
ECHOLED® CONE SPOT



EchoLED® CONE SPOT with black reflector.

TYPE	ARTICLE	W x H x D (in mm)	LIGHT COLOURS	LUMEN	PERFORMANCE
XS, S, M, L	ELI00ELC008009A	83x92x83	4000K	1680lm	20W
XL	ELI00ELC016011A	157x105x157	4000K	2040/2740lm	18/25W

SUPPLY VOLTAGE	220-240V 50/60Hz
PROTECTION TYPE/-CLASS	IP20 / Protection class II
COLOUR CONSISTENCY	CRI > 90
LIFETIME	> 50'000 h (L80 B10)
UGR	< 16



COLOURS ECHOBOARD® 12MM



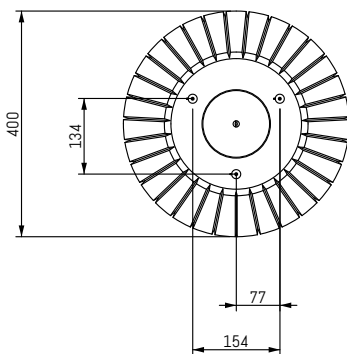
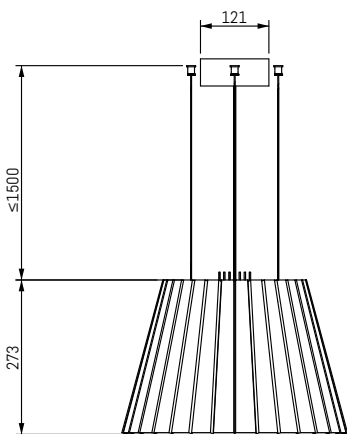
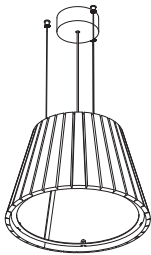
ECHOBOARD® 12MM



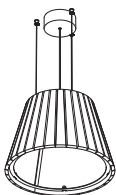
DIMENSIONS & PARTS



ECHOLED® 12MM CONE XS VERTIGO
1088
400x273x400mm



PARTS



1x
EchoLED® CONE XS VERTIGO



3x
Gripper



3x
Hanger bolt
M4x20mm



3x
Wire rope
1500x1.5mm



3x
Screw caps



3x
Ceiling fixtures
M6 Internal thread

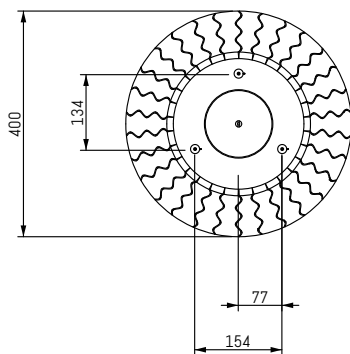
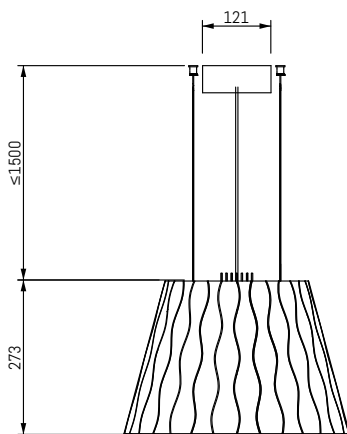
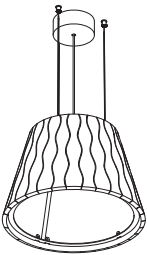


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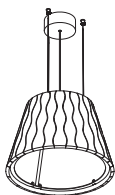
DIMENSIONS & PARTS



ECHOLED® 12MM CONE XS WAVY
1089
400x273x400mm



PARTS



1x
EchoLED® CONE XS WAVY



3x
Gripper



3x
Hanger bolt
M4x20mm



3x
Wire rope
1500x1.5mm



3x
Screw caps



3x
Ceiling fixtures
M6 Internal thread

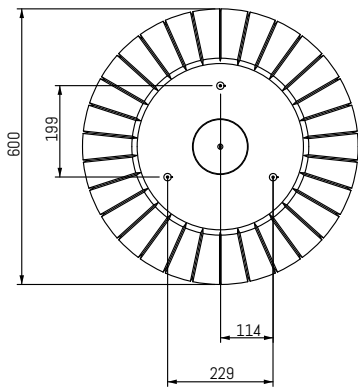
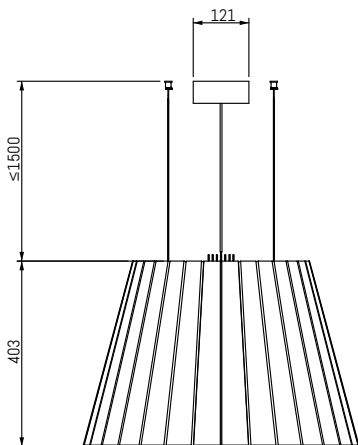
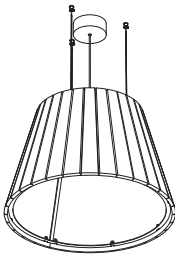


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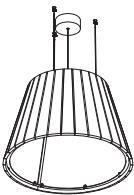
DIMENSIONS & PARTS



ECHOLED® 12MM CONE S VERTIGO
1090
600x403x600mm



PARTS



1x
EchoLED® CONE S VERTIGO



3x
Gripper



3x
Hanger bolt
M4x20mm



3x
Wire rope
1500x1.5mm



3x
Screw caps



3x
Ceiling fixtures
M6 Internal thread

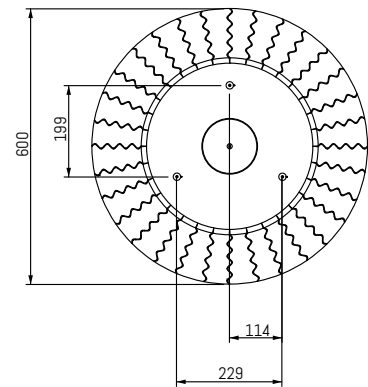
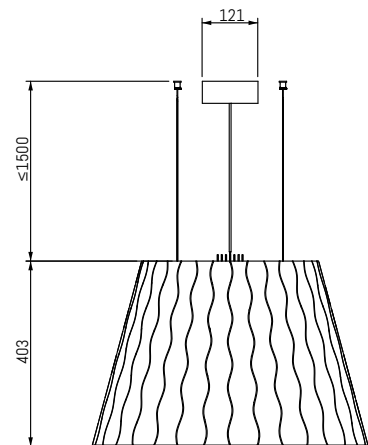
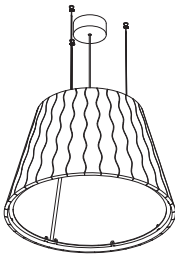


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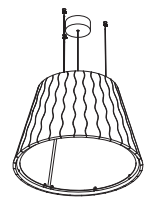
DIMENSIONS & PARTS



ECHOLED® 12MM CONE S WAVY
1091
600x403x600mm



PARTS



1x
EchoLED® CONE S WAVY



3x
Gripper



3x
Hanger bolt
M4x20mm



3x
Wire rope
1500x1.5mm



3x
Screw caps



3x
Ceiling fixtures
M6 Internal thread

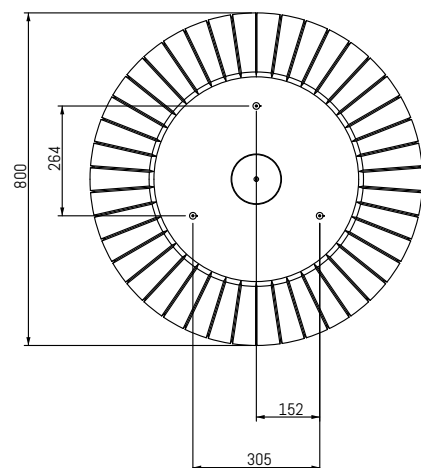
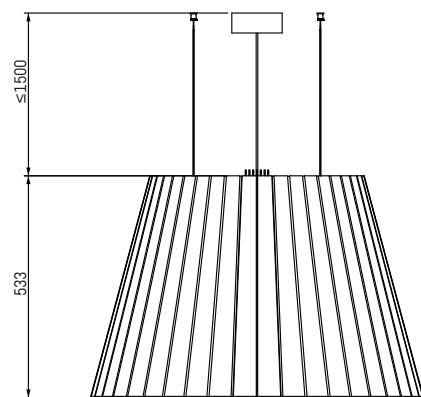
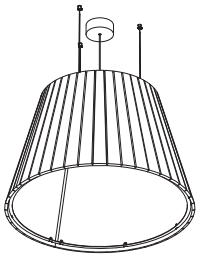


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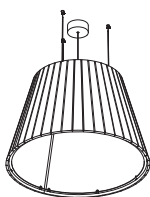
DIMENSIONS & PARTS



ECHOLED® 12MM CONE M VERTIGO
1092
800x533x800mm



PARTS



1x
EchoLED® CONE M VERTIGO



3x
Gripper



3x
Hanger bolt
M4x20mm



3x
Wire rope
1500x1.5mm



3x
Screw caps



3x
Ceiling fixtures
M6 Internal thread

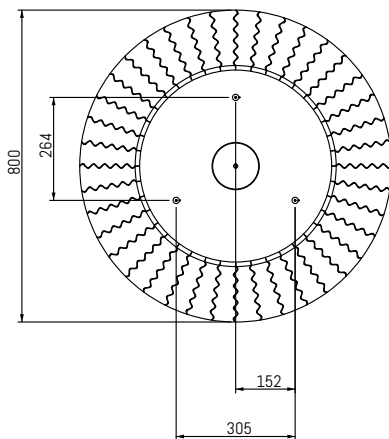
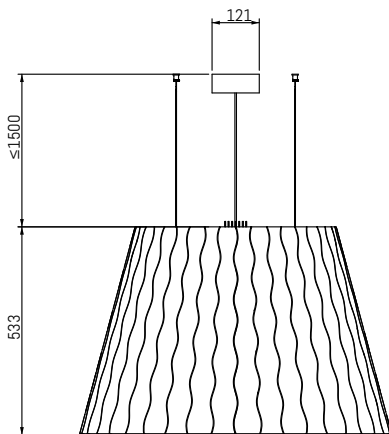
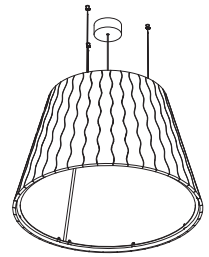


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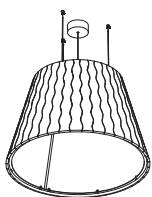
DIMENSIONS & PARTS



ECHOLED® 12MM CONE M WAVY
1093
800x533x800mm



PARTS



1x
EchoLED® CONE M WAVY



3x
Gripper



3x
Hanger bolt
M4x20mm



3x
Wire rope
1500x1.5mm



3x
Screw caps



3x
Ceiling fixtures
M6 Internal thread



Without power cable

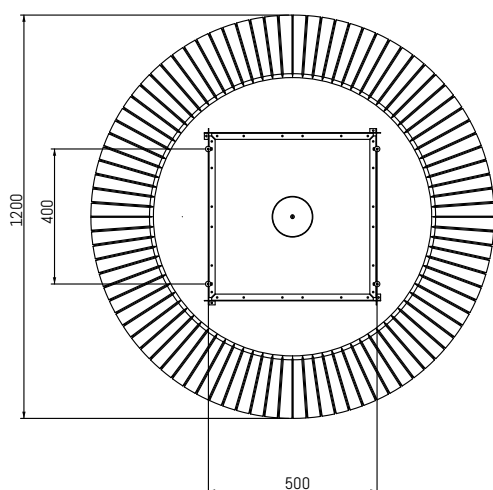
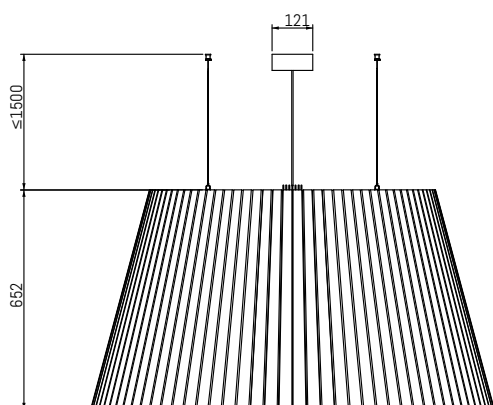
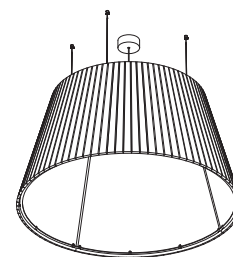
DIMENSIONS & PARTS



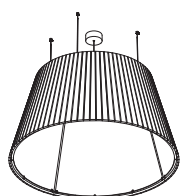
ECHOLED® 12MM CONE L VERTIGO

1094

1200x653x1200mm



PARTS



1x
EchoLED® CONE L VERTIGO



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Screw caps



4x
Ceiling fixtures
M6 Internal thread



Without power cable

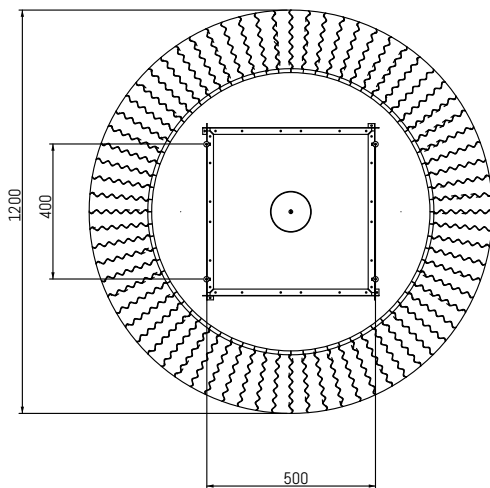
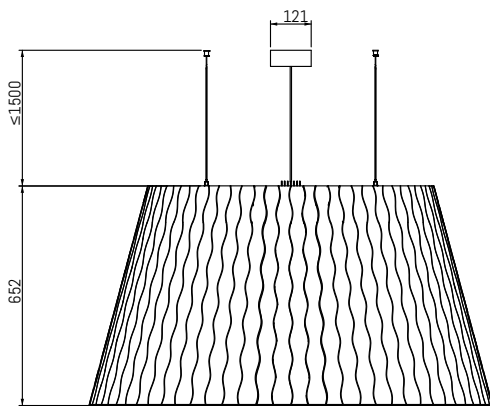
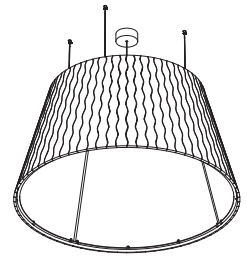
DIMENSIONS & PARTS



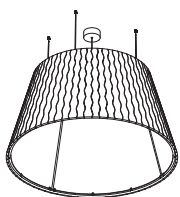
ECHOLED® 12MM CONE L WAVY

1095

1200x653x1200mm



PARTS



1x
EchoLED® CONE L WAVY



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Screw caps



4x
Ceiling fixtures
M6 Internal thread



Without power cable

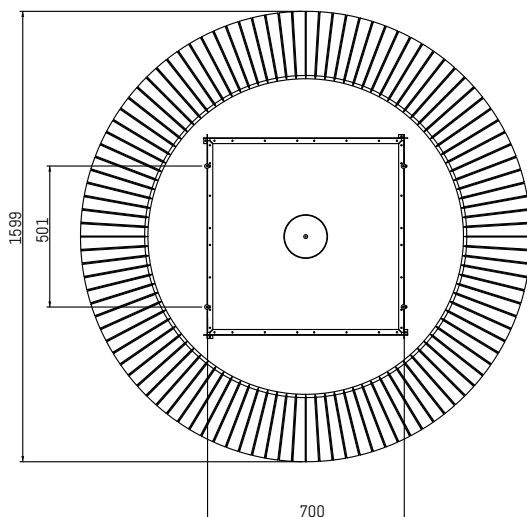
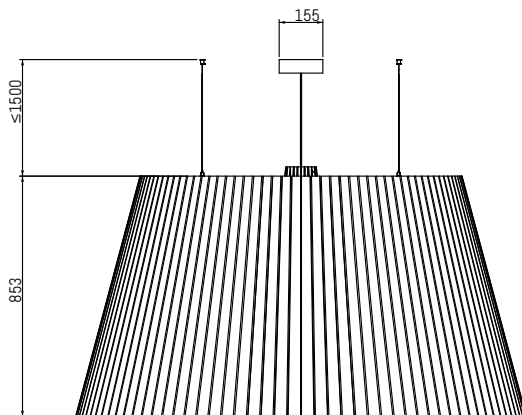
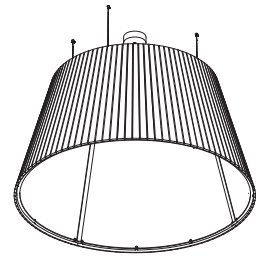
DIMENSIONS & PARTS



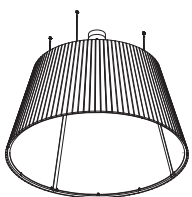
ECHOLED® 12MM CONE XL VERTIGO

1096

1600x853x1600mm



PARTS



1x
EchoLED® CONE XL VERTIGO



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Screw caps



4x
Ceiling fixtures
M6 Internal thread



Without power cable

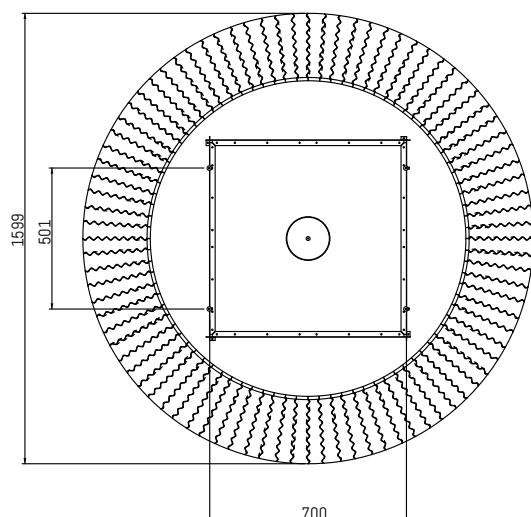
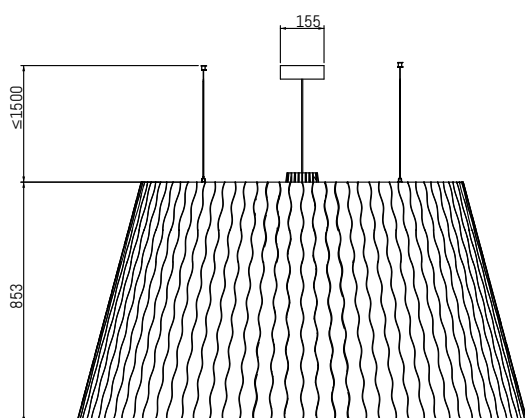
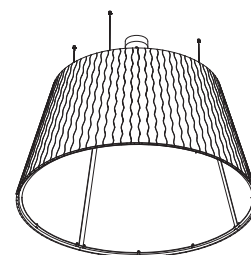
DIMENSIONS & PARTS



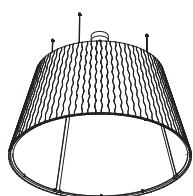
ECHOLED® 12MM CONE XL WAVY

1097

1600x853x1600mm



PARTS



1x
EchoLED® CONE XL WAVY



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Screw caps



4x
Ceiling fixtures
M6 Internal thread

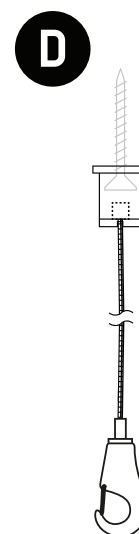
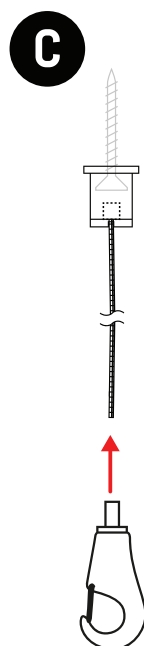
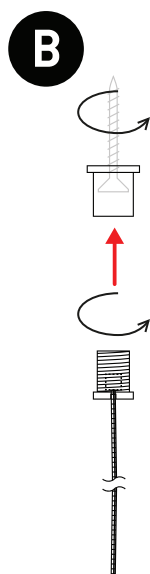
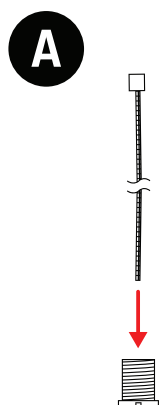
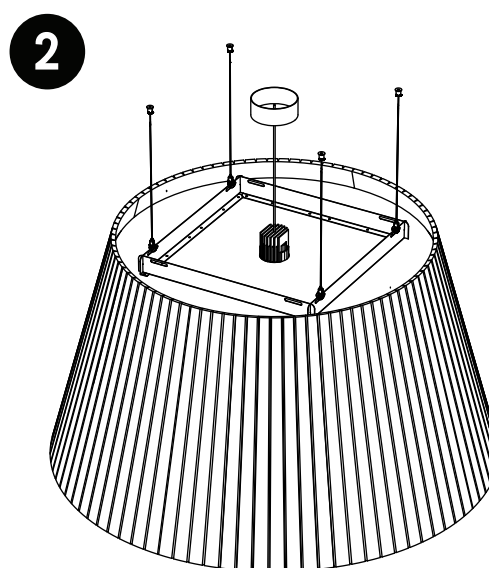
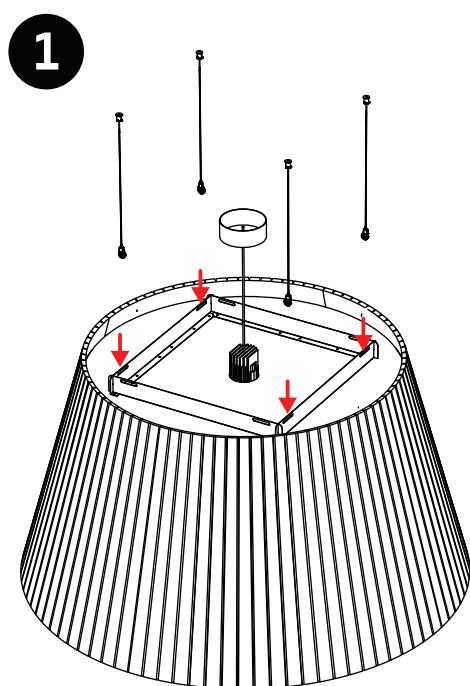


Without power cable

INSTALLATION



ECHOLED® CONE - SAFETY HOOK

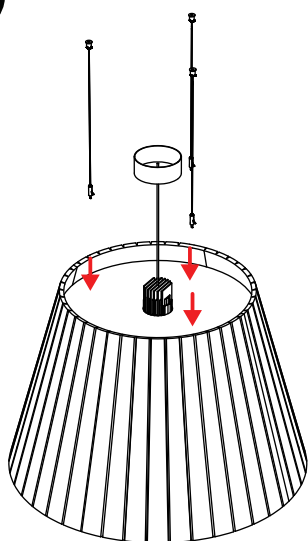


INSTALLATION

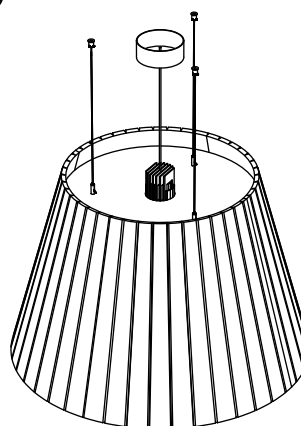


ECHOLED® CONE - DIRECT SUSPENSION

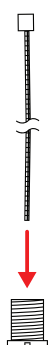
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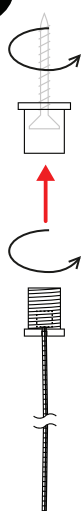
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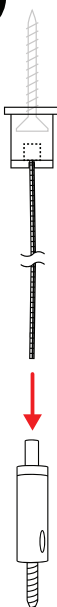
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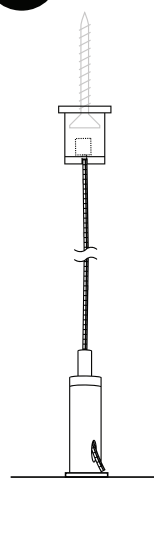
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C



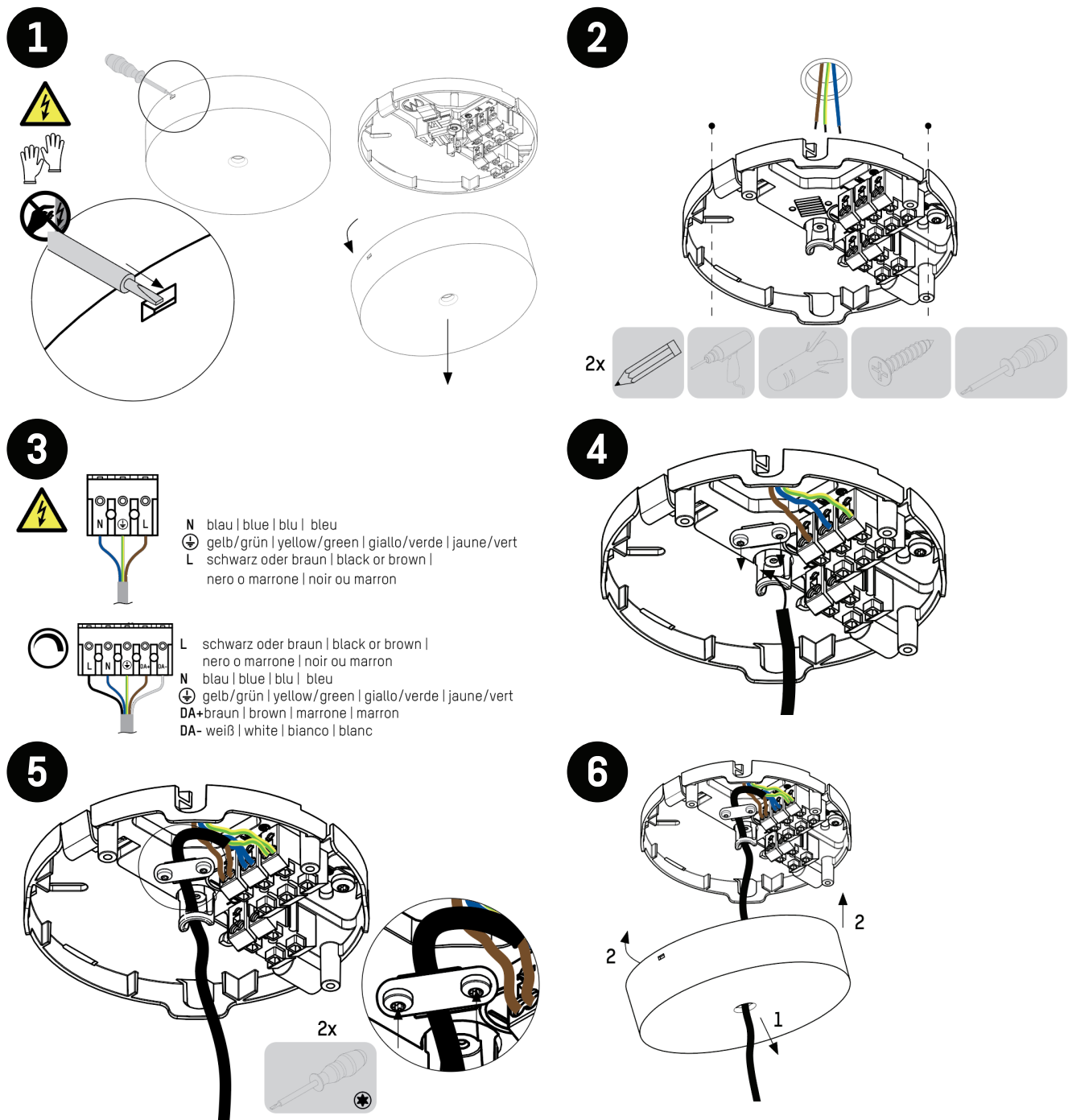
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INSTALLATION

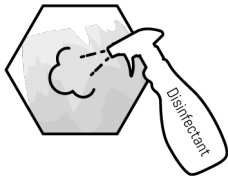


ECHOLED® CONE - ELECTRICAL INSTALLATION



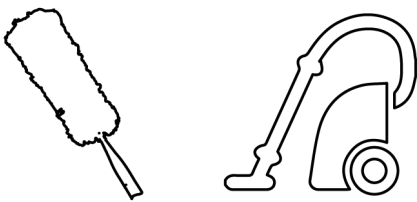
SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



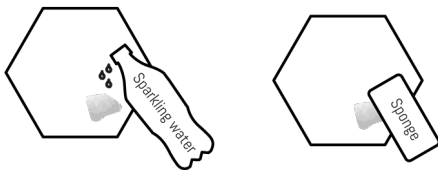
DUSTER/VACUUM CLEANER

For dusting use duster or vacuum cleaner.



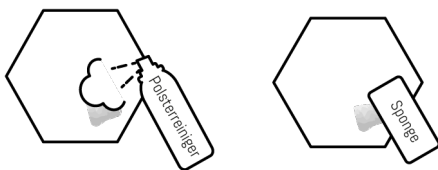
SPARKLING WATER

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



UPHOLSTERY CLEANER

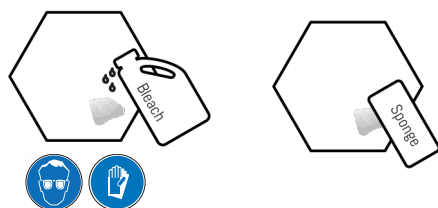
For medium contamination apply upholstery cleaner to polluted area. Wipe carefully with a sponge.



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.