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ECHOLED[®] 24MM SITAS DATASHEET

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PRODUCT NAME

EchoLED® 24mm SITAS

DESCRIPTION

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

For maximum comfort at the workplace, EchoLED® SITAS has a luminous field integrated into a high-performance acoustic absorber. The recessed light with microprismatic cover sits in the centre of the acoustic sail. It is produced tailor-made by ECHOJAZZ with a large range of shapes and sizes available in our 21 colours.

Thanks to the many options, the acoustic light can be optimally integrated into a design concept. The combination of light quality, functionality and acoustic well-being ensures optimum ergonomics for employees.

PRODUCT PROPERTIES

- P 20 / protection class 1
- Supply voltage: 220-240V 50/60Hz
- Colour consistency: CRI > 80
- Service life: > 50'000 h (L80 B10)
- Lumen: 3190-3430lm
- Light colour: 4000K
- System power: 30W

ACOUSTIC PERFORMANCE

aw: 1.00

NRC: 0.95

INSTALLATION

- Suitable for use in rooms as well as roofed outdoor areas
- Easily height-adjustable

MATERIAL PROPERTIES

- Extremely robust and shockproof
- Very high colour fastness of the all-round homogeneous textile surface available in over 20 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® 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/m ² (± 10%)																												
MATERIAL THICKNESS	24mm																												
LIGHTFASTNESS ISO 105-B02-1994	> 7																												
FIRE TEST EN 13501	B-s1, d0																												
VOC EMISSIONS ASTM D5116	< 0.5mg/m ² /h																												
FORMALDEHYDE EMISSIONS ASTM D5116	< 0.1mg/m ² /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), 50mm distance (yellow), and 200mm distance (blue). The 200mm distance series shows the highest absorption, peaking at approximately 1.08 at 1000 Hz. The 50mm distance series peaks at approximately 1.05 at 1000 Hz. The direct mount series shows the lowest absorption, peaking at approximately 1.08 at 2000 Hz.</p> <table border="1"> <caption>Approximate data points from the Sound 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>0.02</td> <td>0.15</td> <td>0.52</td> </tr> <tr> <td>250</td> <td>0.18</td> <td>0.35</td> <td>0.85</td> </tr> <tr> <td>500</td> <td>0.65</td> <td>0.85</td> <td>0.95</td> </tr> <tr> <td>1000</td> <td>0.85</td> <td>1.05</td> <td>0.85</td> </tr> <tr> <td>2000</td> <td>1.05</td> <td>0.95</td> <td>0.95</td> </tr> <tr> <td>4000</td> <td>1.08</td> <td>0.95</td> <td>0.95</td> </tr> </tbody> </table>	Frequency (Hz)	Direct Mount (Green)	50mm Distance (Yellow)	200mm Distance (Blue)	125	0.02	0.15	0.52	250	0.18	0.35	0.85	500	0.65	0.85	0.95	1000	0.85	1.05	0.85	2000	1.05	0.95	0.95	4000	1.08	0.95	0.95
Frequency (Hz)	Direct Mount (Green)	50mm Distance (Yellow)	200mm Distance (Blue)																										
125	0.02	0.15	0.52																										
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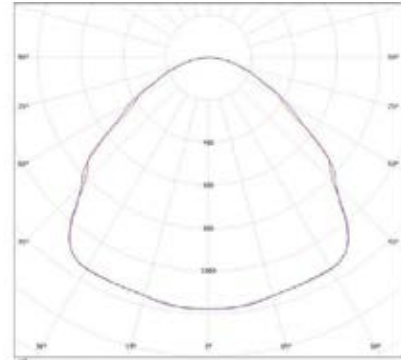
ECHOLED® SITAS LIGHT-MODULE



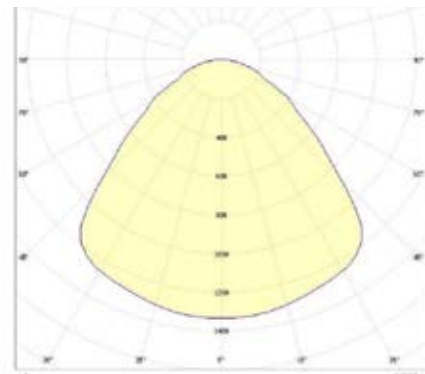
The light module for the EchoLED® SITAS acoustic luminaire.

TYPE	ARTICLE	W x H x D (in mm)	LIGHT COLOUR	LUMEN	PERFORMANCE
EchoLED® SITAS SQUARE LIGHT MODULE	ELI24SIS004000A	400x400x72	4000K	3190lm	30W
EchoLED® SITAS ROUND LIGHT MODULE	ELI24SIR004000A	Ø400xx72mm	4000K	3430lm	30W

SUPPLY VOLTAGE	220-240V 50/60Hz
PROTECTION TYPE/CLASS	IP 20 / Protection class 1
COLOUR INPUT INDEX	CRI > 80
OPTICS	Microprism cover
ENERGY EFFICIENCY	A++
LIFE DURATION	> 50'000 h (L80 B10)
DIMMING MODE	DALI
DIMMBARKEIT	DALI



ECHOLED® SITAS SQUARE



ECHOLED® SITAS ROUND

COLOURS ECHOBOARD® 24MM



ECHOBOARD® 24MM



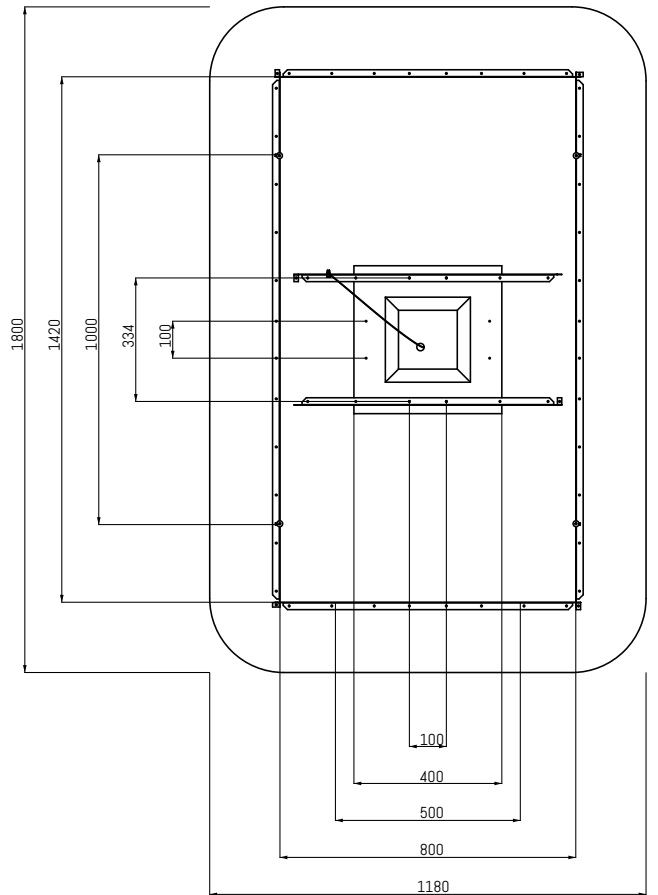
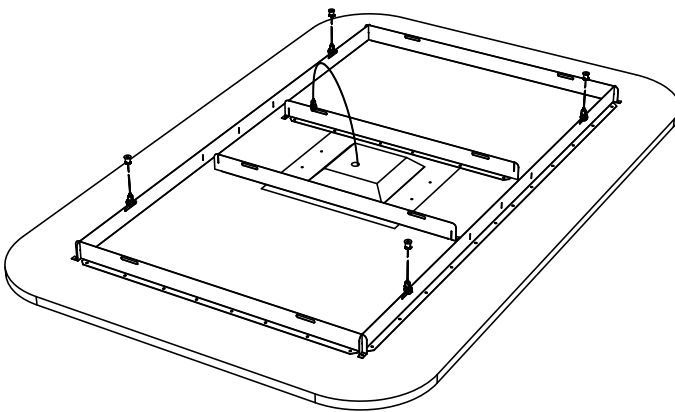
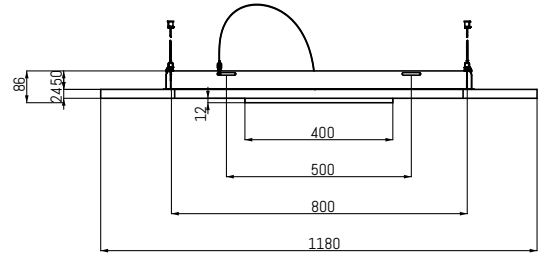
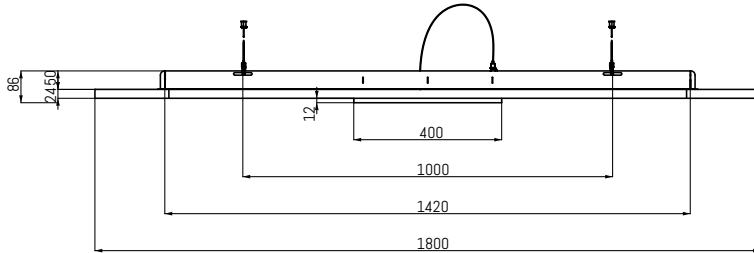
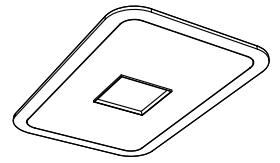
*Discontinued. Colour available from stock while supplies last or on request with a minimum order quantity.



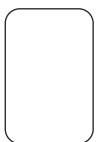
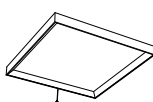








DIMENSIONS & PARTS



ECHOLED® 24MM SITAS RECTANGLE M
1132
1800x1180x84mm



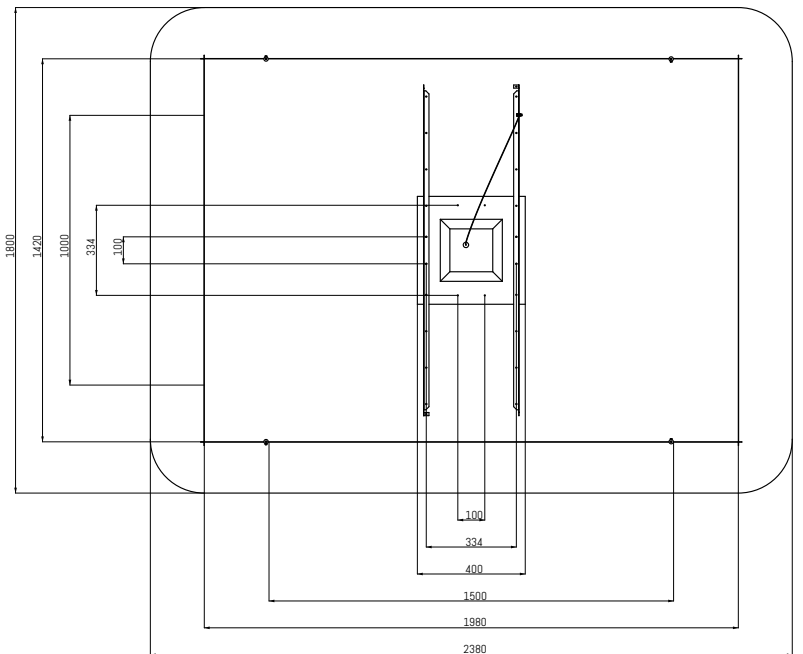
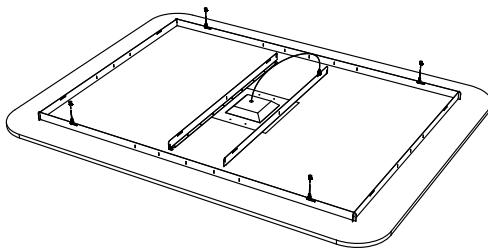
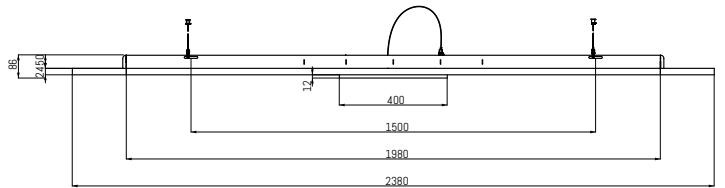
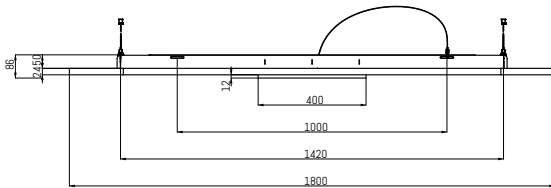
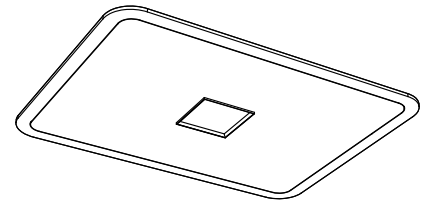
PARTS

- | | | | | | | | | | |
|--|---|---|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |  |  |  |
| 1x
EchoBoard® 24mm
1180x1800x24mm | 1x
SITAS LIGHT-MODULE
SQUARE | 2x
L-profile
Light mount
724x50x20x1.2mm | 2x
L-profile
826x50x20x1.2mm | 2x
L-profile
1446x50x20x1.2 mm | 4x
Safety hook | 4x
Wire rope
1500x1.5mm | 4x
Ceiling anchor cap | 4x
ceiling anchor
M6 internal thread | 40x
Screw
(for the L-profiles)
Panhead 3.5x16 mm
T15 |

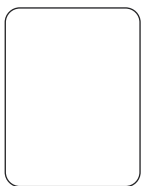
DIMENSIONS & PARTS



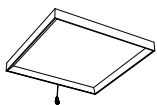
ECHOLED® 24MM SITAS RECTANGLE L
1116
2380x1800x84mm



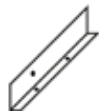
PARTS



1x
EchoBoard® 24mm
1800x2380x24mm



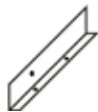
1x
SITAS LIGHT-MODULE
SQUARE



2x
L-profile
Light mount
1226x50x20x1.2mm



2x
L-profile
2006x50x20x1.2mm



2x
L-profile
1446x50x20x1.2 mm



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Ceiling anchor cap



4x
ceiling anchor
M6 internal thread

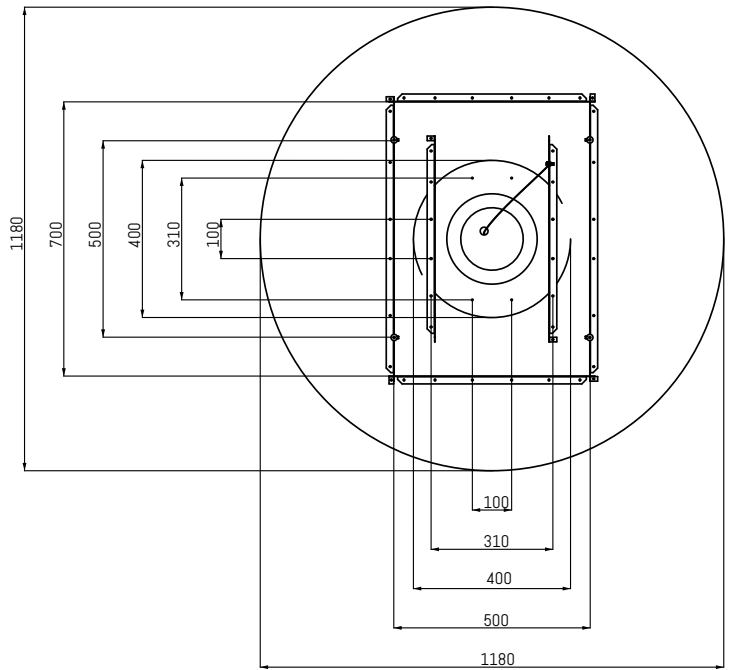
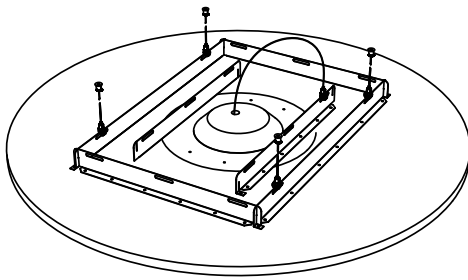
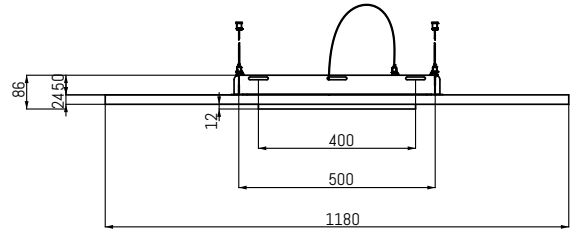
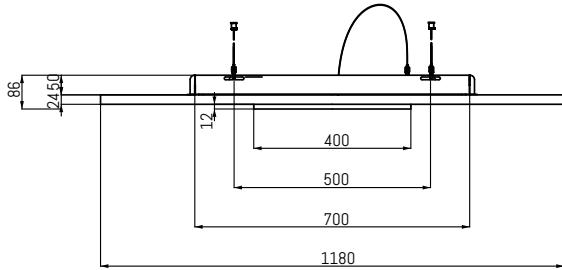
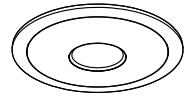


80x
Screw
(for the L-profiles)
Panhead 3.5x16 mm
T15

DIMENSIONS & PARTS



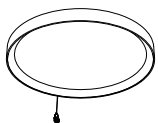
ECHOLED® 24MM SITAS ROUND M
1134
Ø1180x84mm



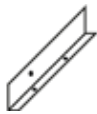
PARTS



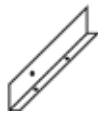
1x EchoBoard® 24mm
Ø1180x24mm



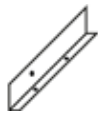
1x SITAS L'GHT-MODULE
ROUND



2x L-profile
Light mount
524x50x20x1.2mm



2x L-profile
724x50x20x1.2mm



2x L-profile
524x50x20x1.2 mm



4x Safety hook



4x Wire rope
1500x1.5mm



4x Ceiling anchor cap



4x ceiling anchor
M6 internal thread

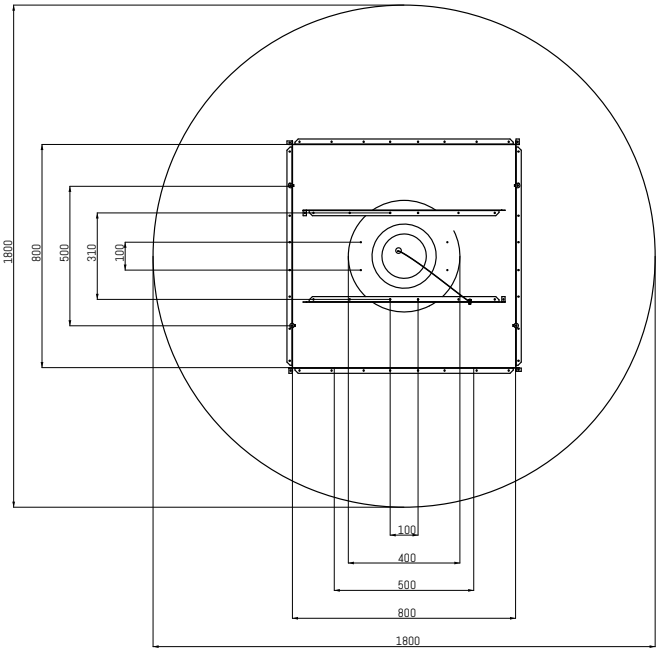
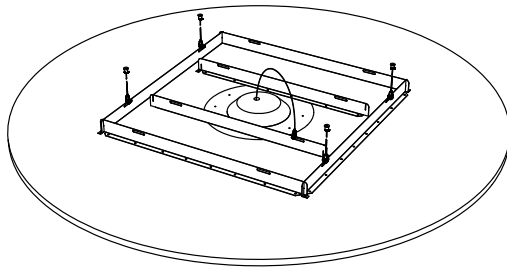
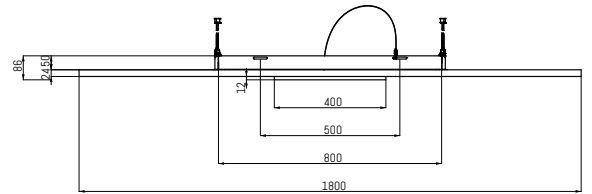
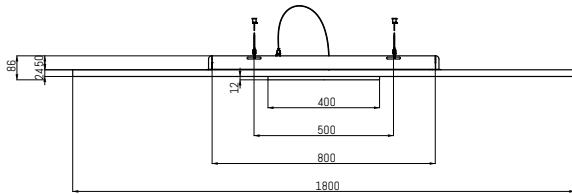
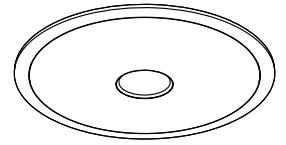


80x Screw
(for the L-profiles)
Panhead 3.5x16 mm
T15

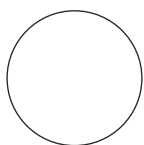
DIMENSIONS & PARTS



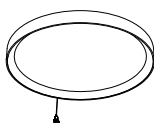
ECHOLED® 24MM SITAS ROUND L
1136
Ø1800x84mm



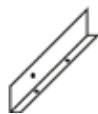
PARTS



1x
EchoBoard® 24mm
Ø1800x24mm



1x
SITAS LIGHT-MODULE
ROUND



2x
L-profile
Light mount
724x50x20x1.2mm



4x
L-profile
826x50x20x1.2mm



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Ceiling anchor cap



4x
ceiling anchor
M6 internal thread

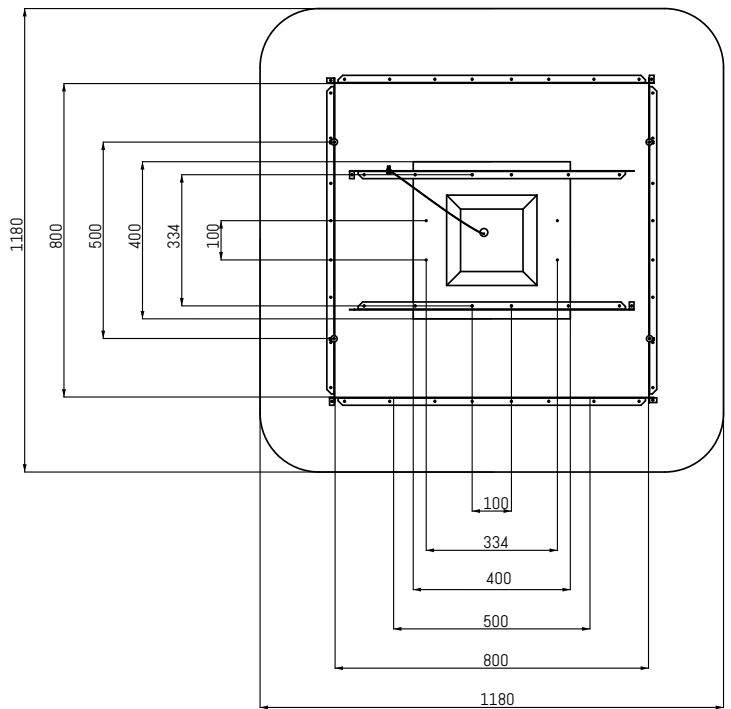
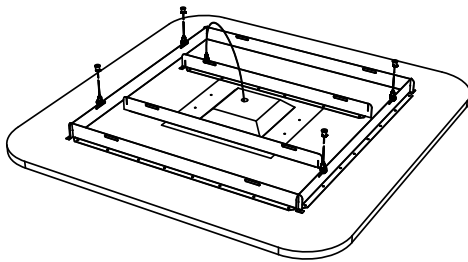
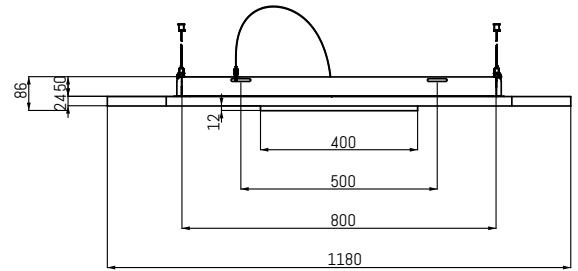
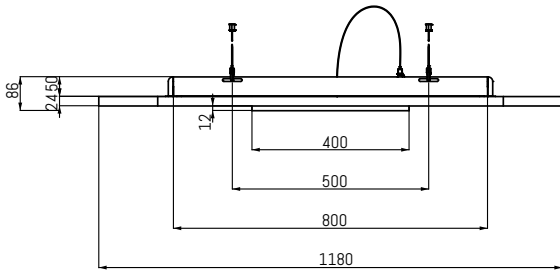
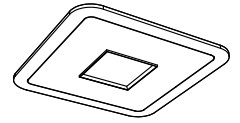


80x
Screw
(for the L-profiles)
Panhead 3.5x16 mm
T15

DIMENSIONS & PARTS



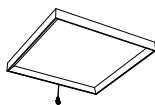
ECHOLED® 24MM SITAS SQUARE M
1137
1180x1180x84mm



PARTS



1x
EchoBoard® 24mm
1180x1180x24mm



1x
SITAS LIGHT-MODULE
SQUARE



2x
L-profile
Light mount
724x50x20x1.2mm



4x
L-profile
826x50x20x1.2mm



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Ceiling anchor cap



4x
ceiling anchor
M6 internal thread

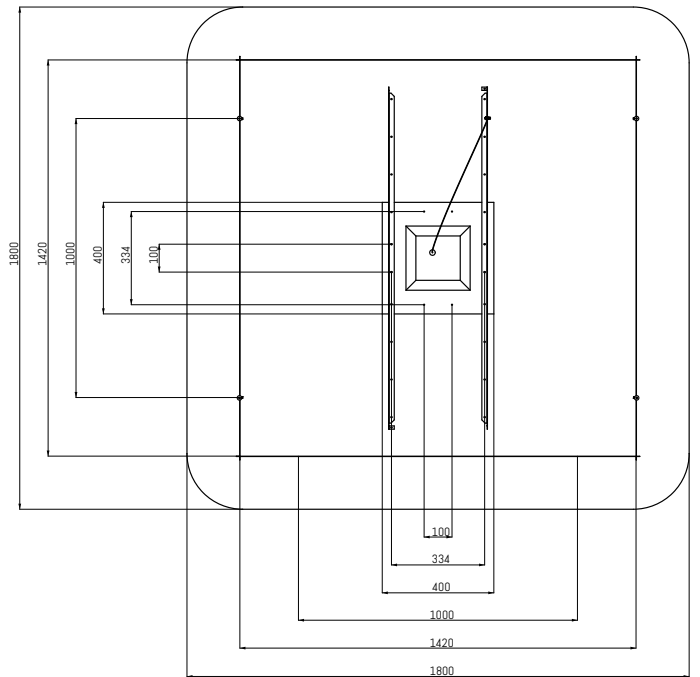
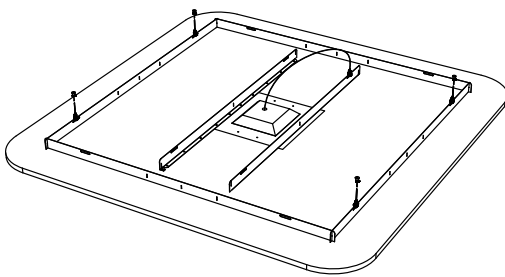
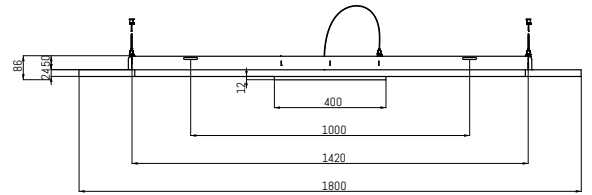
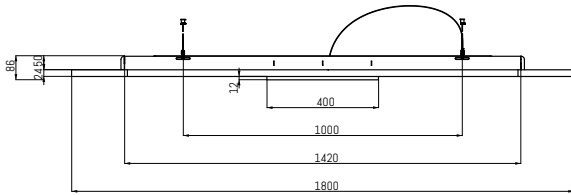
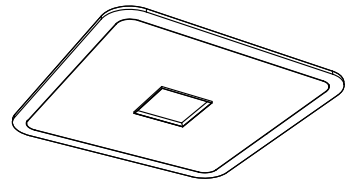


80x
Screw
(for the L-profiles)
Panhead 3.5x16 mm
T15

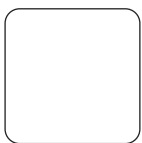
DIMENSIONS & PARTS



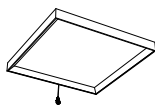
ECHOLED® 24MM SITAS SQUARE L
1139
1800x1800x84mm



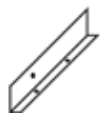
PARTS



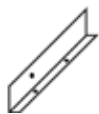
1x
EchoBoard® 24mm
1800x1800x24mm



1x
SITAS LIGHT-MODULE
SQUARE



2x
L-profile
Light mount
1226x50x20x1.2mm



4x
L-profile
1446x50x20x1.2mm



4x
Safety hook



4x
Wire rope
1500x1.5mm



4x
Ceiling anchor cap



4x
ceiling anchor
M6 internal thread

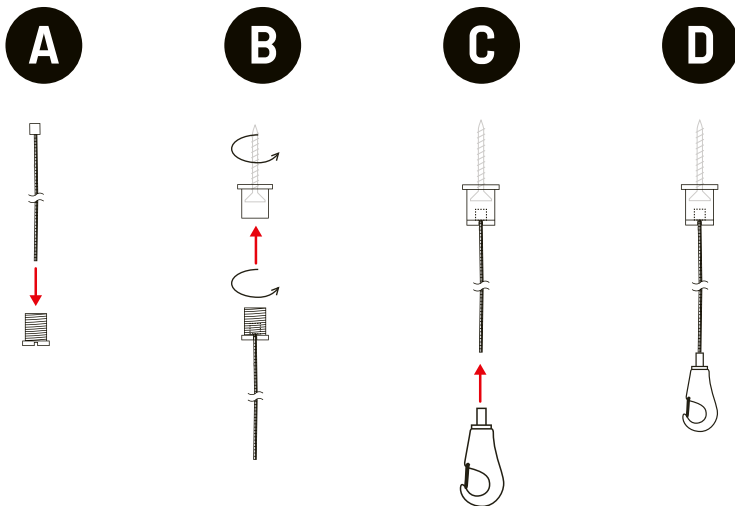
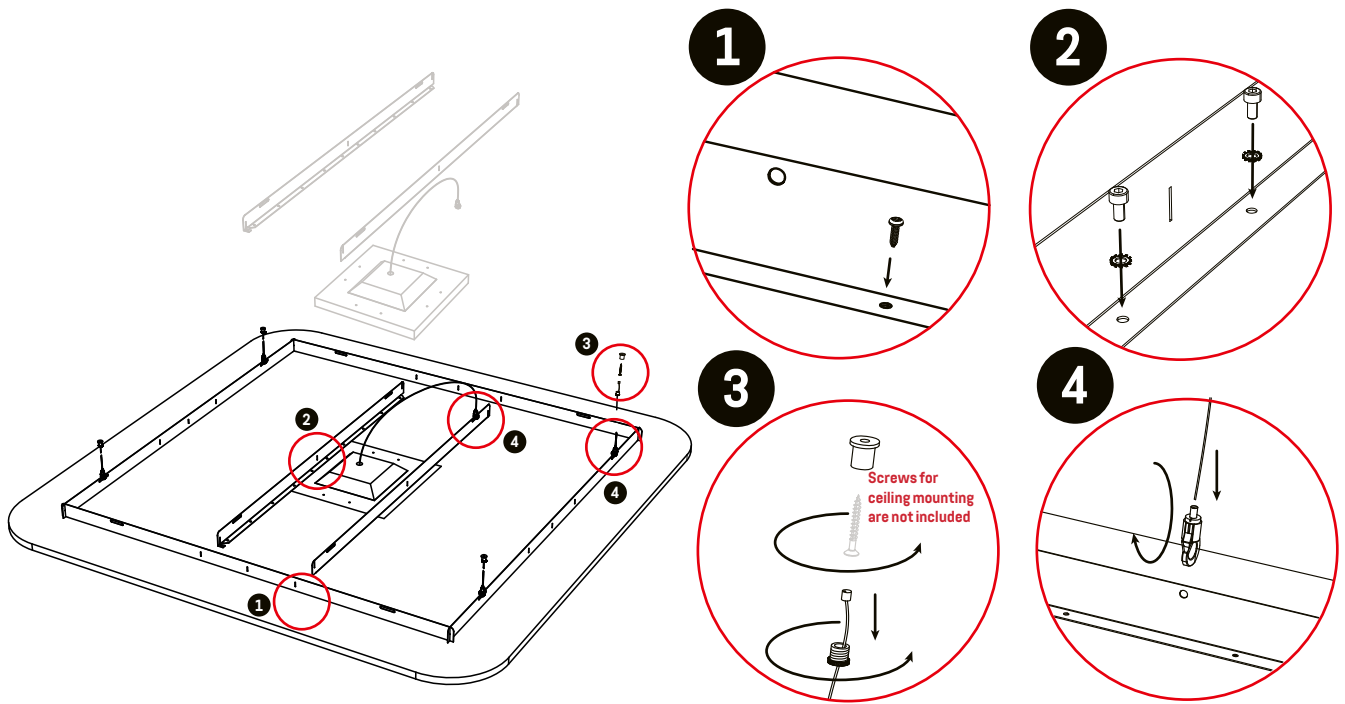


80x
Screw
(for the L-profiles)
Panhead 3.5x16 mm
T15

INSTALLATION



ECHOLED® SITAS - L-PROFILES AND SAFETY HOOK SUSPENSION



CLEANING & CARE

SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



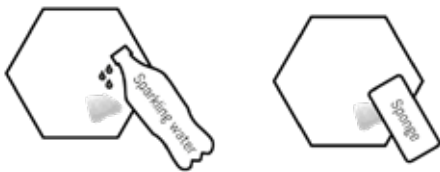
DUSTER/VACUUM CLEANER

For dusting use duster or vacuum cleaner.



SPARKLING WATER

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



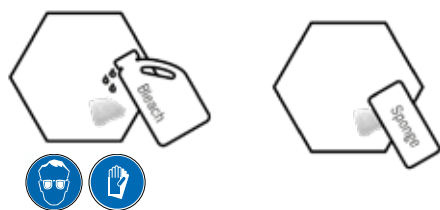
UPHOLSTERY CLEANER

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.