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ECHOLED® 24MM EQ4 DATASHEET

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PRODUCT NAME

EchoLED® 24mm EQ4

DESCRIPTION

High-performance acoustic ceiling sail with integrated lighting and textile surface made of 100% PET

The EchoLED® EQ4 modules have been developed as elegant and fully integrated workplace luminaires and are manufactured in Switzerland. The lighting module allows the user to control the light individually (DALI drivers) via a light switch on the table or app. The set-back light exit of 8mm offers a glare-free light which is hardly visible in the room. The closed four-module is delivered ready to plug in and can be connected or replaced like a floor lamp.

PRODUCT PROPERTIES

- Material thickness of acoustic absorber: 24mm
- Weight acoustic absorber: 3600g/m² (± 10%)
- Available in 3000 and 4000 (standard) Kelvin
- Very high energy efficiency: A++
- UGR <16
- Good colour rendering index CRI > 90 (4000K)
- 1320 lumen

ACOUSTIC PERFORMANCE

aw: 0.50 - 1.00

NRC: 0.70 - 0.95

INSTALLATION

- Suitable for use in rooms as well as roofed outdoor areas
- Very easy to trim with a knife
- Simply 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/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	<table><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>0.05</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>1.05</td><td>0.85</td></tr><tr><td>2000</td><td>1.00</td><td>1.00</td><td>0.95</td></tr><tr><td>4000</td><td>1.05</td><td>1.00</td><td>1.00</td></tr></tbody></table> Legend: - 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	0.15	0.55	250	0.15	0.35	0.85	500	0.55	0.85	1.05	1000	0.85	1.05	0.85	2000	1.00	1.00	0.95	4000	1.05	1.00	1.00
Frequency (Hz)	Direct Mount (Green)	50mm Distance (Yellow)	200mm Distance (Blue)																										
125	0.05	0.15	0.55																										
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4000	1.05	1.00	1.00																										

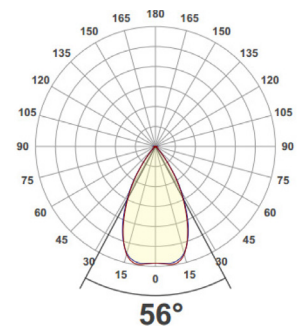
ECHOLED® EQ4 PIN BY BARTENBACH



The EchoLED® EQ4 PIN with four light points was developed in cooperation with Bartenbach, the competence partner for light sources.

TYPE	ARTICLE	W x H x D (in mm)	LIGHT COLOURS	LUMEN	PERFORMANCE
EQ4 3000	ELI00EQ3000000A	486x73.9x50 (4 x Ø30)	3000K	1320lm	22W
EQ4 4000	ELI00EQ4000000A	486x73.9x50 (4 x Ø30)	4000k	1320lm	22W

SUPPLY VOLTAGE	220-240V 50/60Hz
PROTECTION TYPE/-CLASS	IP 40 / Protection class 1
COLOUR RENDERING INDEX	CRI > 90 (4000K)
COLOUR CONSISTENCY	< 3SDMC
ENERGIEEFFIZIENZ	A++
LIFETIME	> 50'000 h (L80 B10)
UGR	< 16



Bartenbach 

COLOURS ECHOBOARD® 24MM



ECHOBOARD® 24MM



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



DIMENSIONS & PARTS

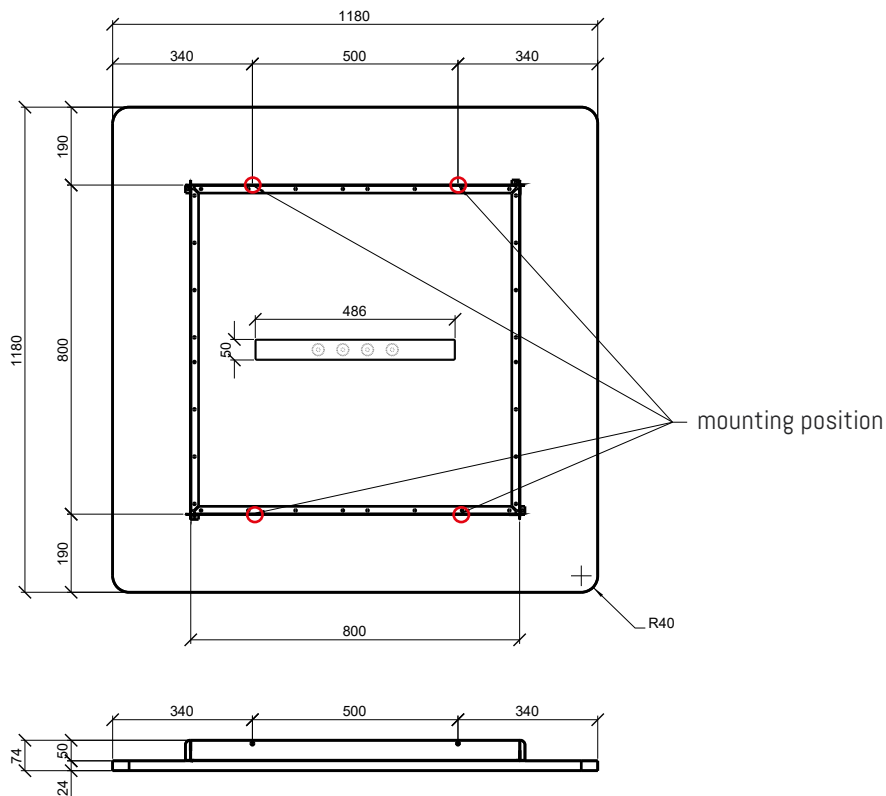
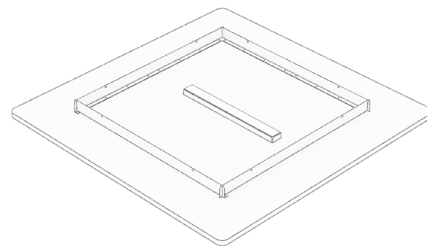


ECHOLED® 24MM EQ4 SINGLE M

ELE24EQ1118118A

Acoustic absorber: 1180 x 1180 x 24 mm

Frame: 800 x 800 x 50 mm



part list

PARTS

1 x EchoBoard® 24mm
1180 x 1180 x 24 mm

4 x L-profile
800 x 50 x 20 x 1.2 mm

32 x screw (for the L-profiles)
Panhead 3.5 x 16 mm T15

1 x LED-module EQ4

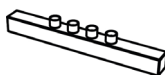
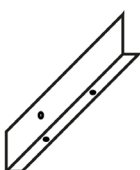
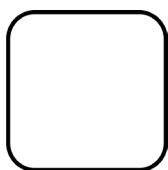
4 x security hook

4 x wire rope
1500 x 1.5 mm

4 x ceiling anchor cap

4 x ceiling anchor
M6 internal thread

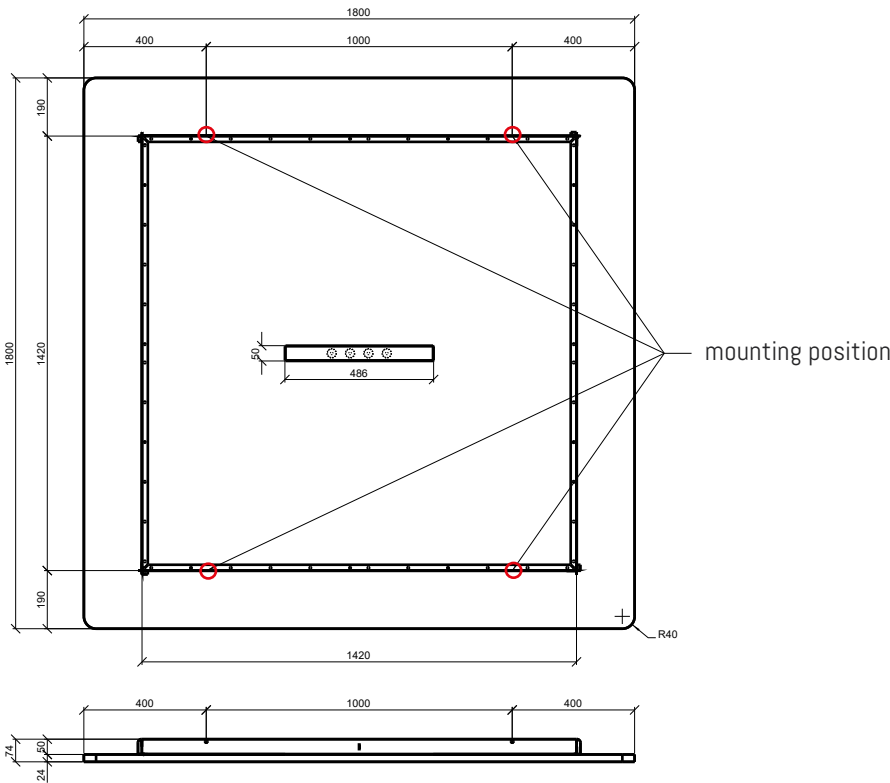
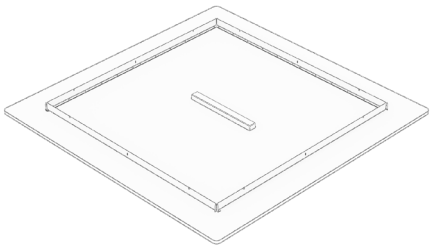
without power cable



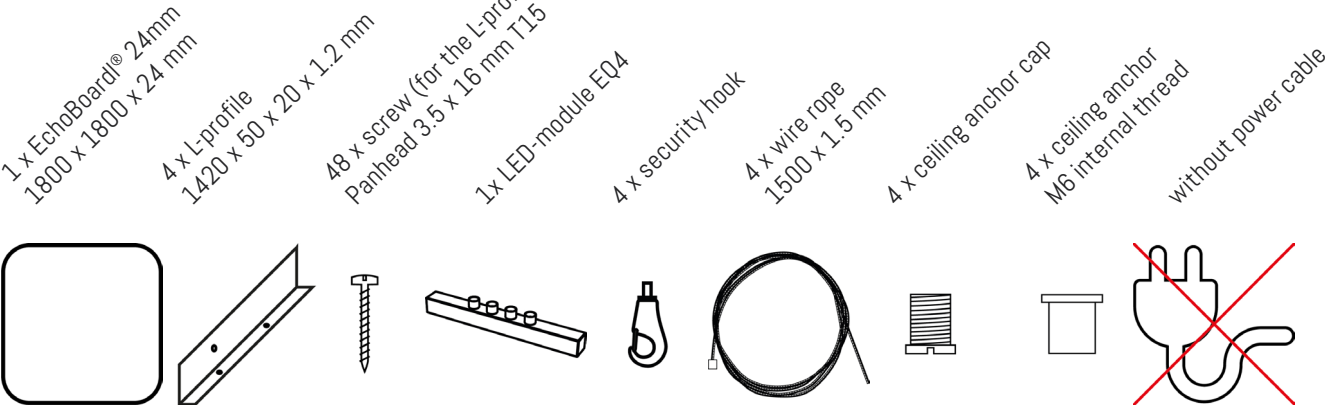
DIMENSIONS & PARTS



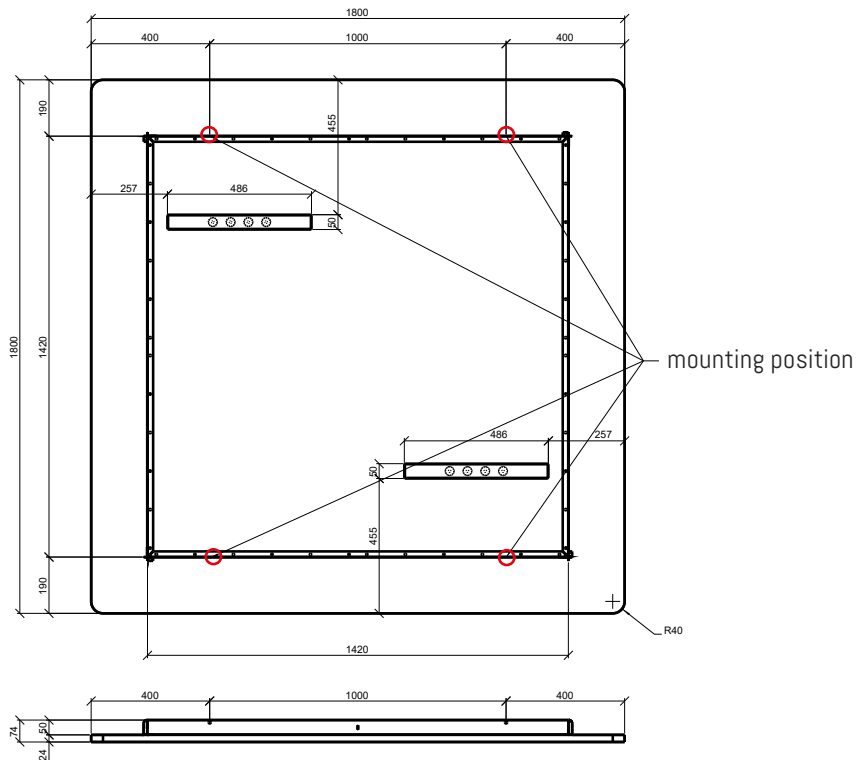
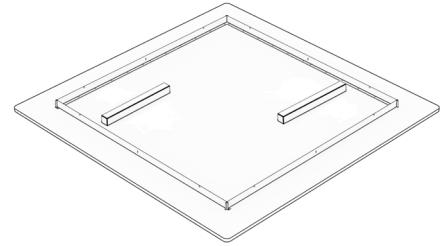
ECHOLED® 24MM EQ4 SINGLE L
ELE24EQ1180180A
Acoustic absorber: 1800 x 1800 x 24 mm
Frame: 1420 x 1420 x 50 mm



PARTS

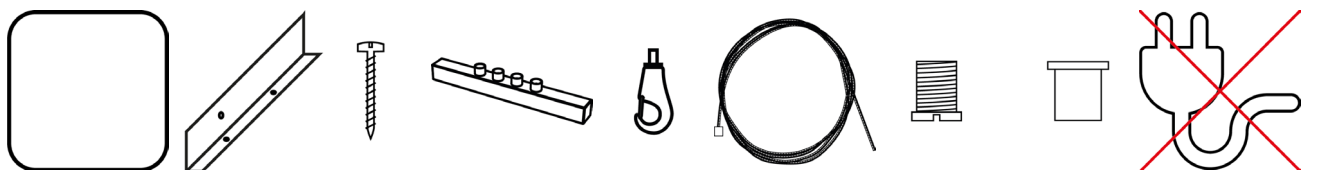


Frame: 1420 x 1420 x 50 mm

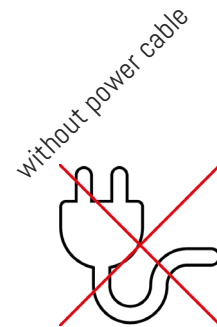
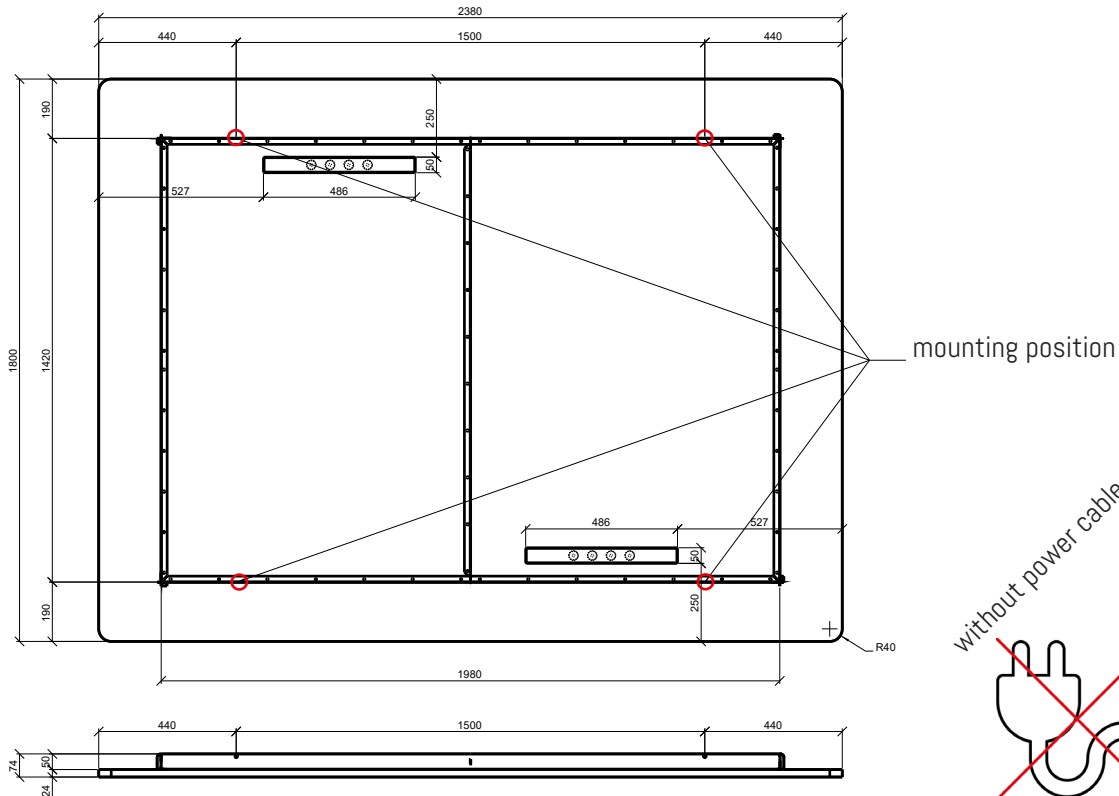
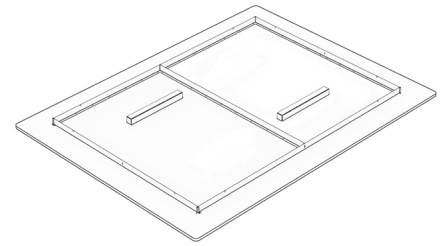


PARTS

1 x EchoBoard® 24mm 1800 x 1800 x 24 mm	4 x L-profile 1420 x 50 x 20 x 1.2 mm	48 x screw (for the L-profiles) Panhead 3.5 x 16 mm T15	2 x LED-module EQ4 400 x 400 x 12 mm
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Frame: 1980 x 1420 x 50 mm



PARTS

- 1 x EchoBoard® 24mm
2380 x 1800 x 24 mm
- 2 x L-profile
1980 x 50 x 20 x 1.2 mm
- 2 x L-profile
1420 x 50 x 20 x 1.2 mm
- 1 x L-profile crossbar
1420 x 50 x 20 x 1.2 mm
- 58x screw (for the L-profiles)
Panhead 3.5 x 16 mm T15
- 2x LED-module EQ4
- 4 x security hook
- 4 x wire rope
1500 x 1.5 mm
- 4 x ceiling anchor cap
- 4 x ceiling anchor
M6 internal thread

DIMENSIONS & PARTS

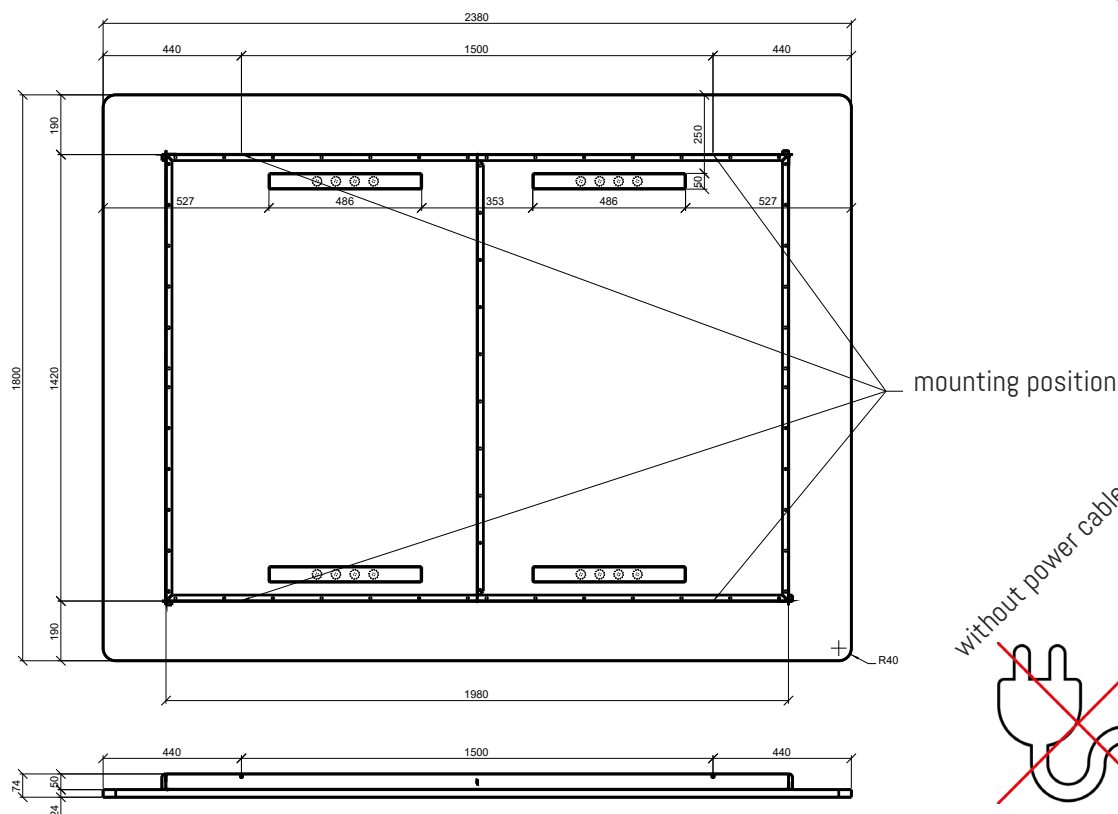
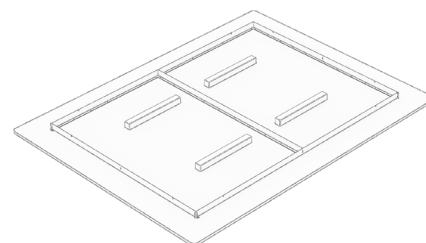


ECHOLED® 24MM EQ4 QUAD L

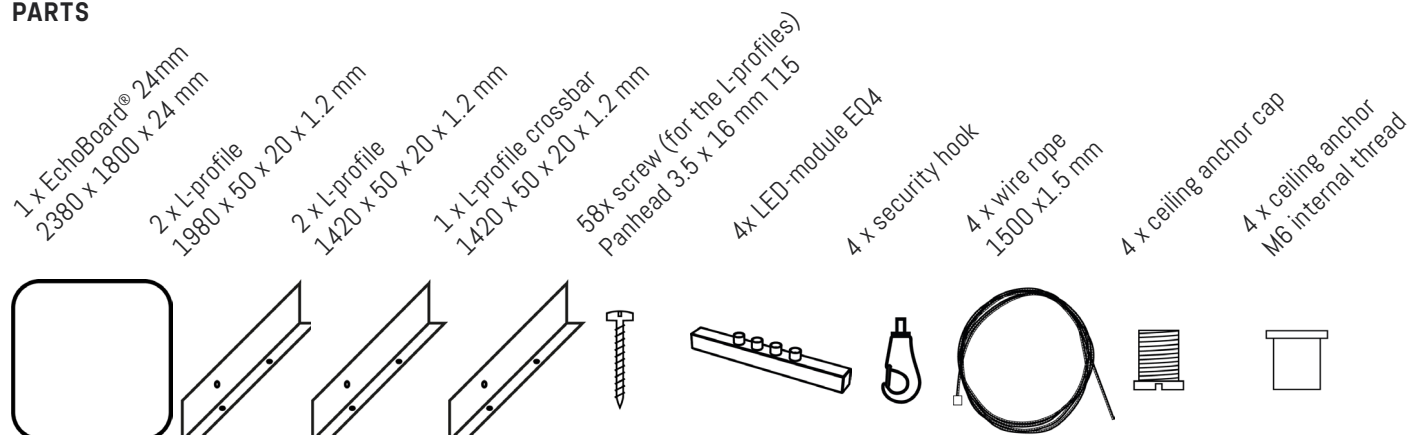
ELE24EQ4238180A

Acoustic absorber: 2380 x 1800 x 24 mm

Frame: 1980 x 1420 x 50 mm



PARTS

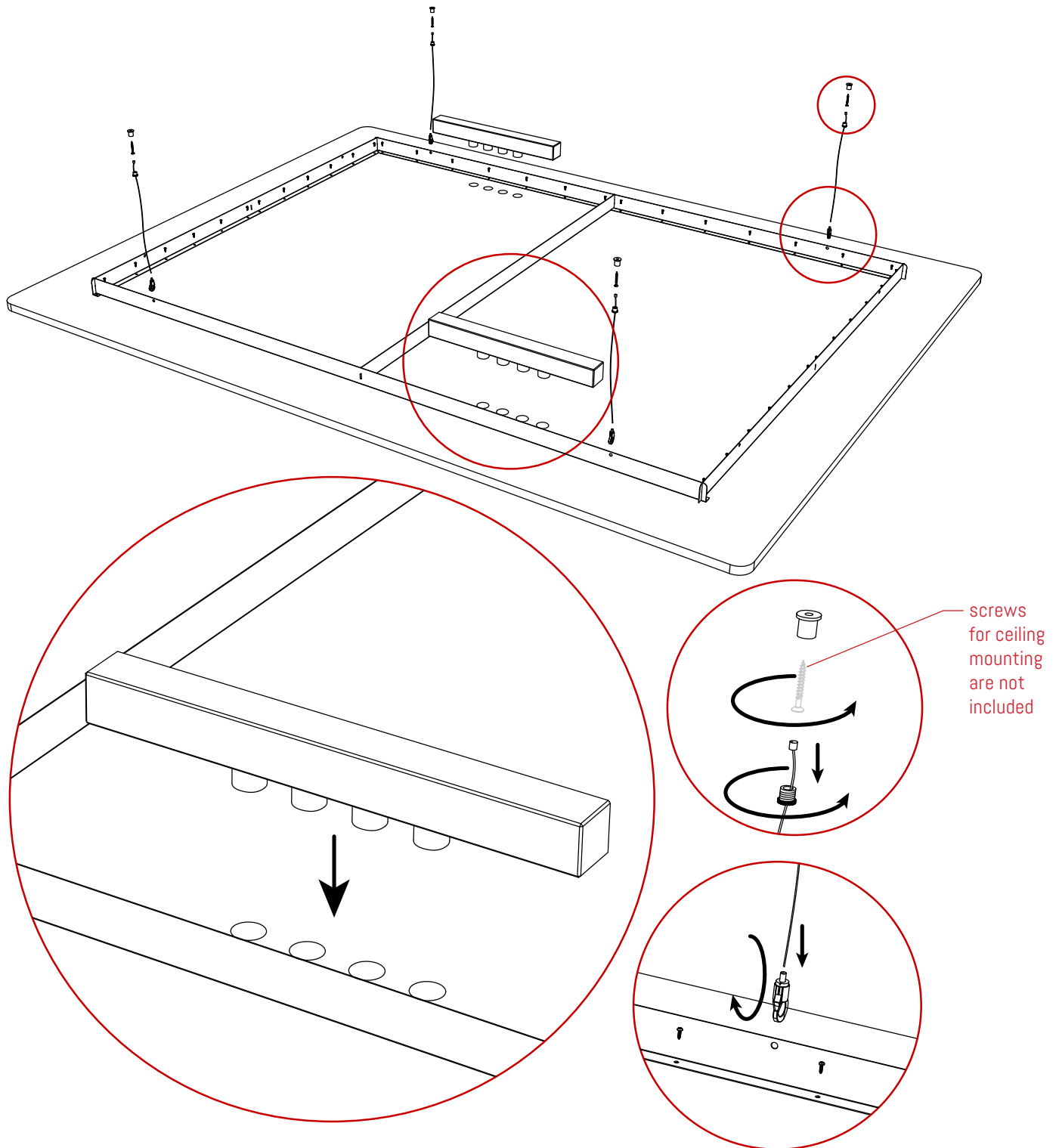


INSTALLATION



L-PROFILE MOUNTING SYSTEM + EQ4 MODULE INSTALLATION

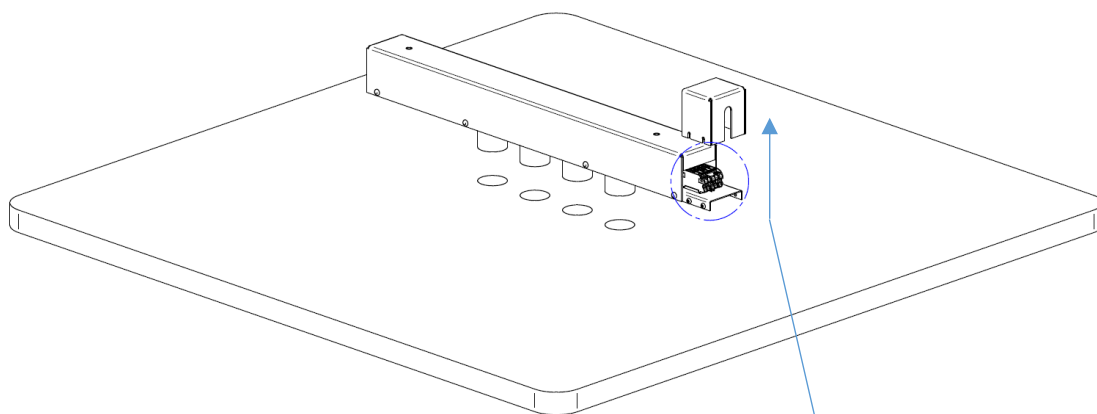
Mount the L-profiles with the enclosed screws. Tighten them slightly and do not overtighten the screws. Push the LED modules EQ4 into the cut-outs and make sure that the housing is completely seated on the EchoBoard®.



INSTALLATION

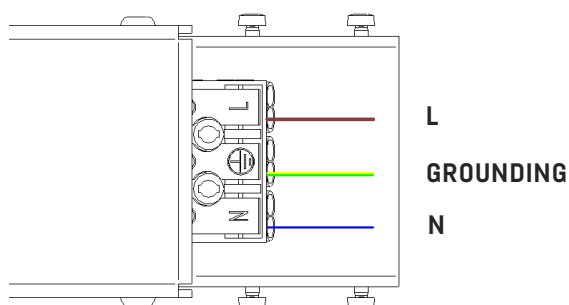


ELECTRICAL COMMISSIONING

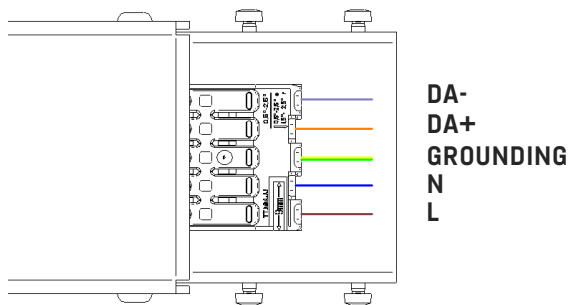


1. loosen screws slightly
2. remove the cover
3. connect terminal

CONNECTION DIAGRAM ON/OFF



CONNECTION DIAGRAM DALI



WARNINGS

Installation and commissioning may only be carried out by authorised specialist personnel. The lamp is used exclusively for lighting and must be installed in accordance with the installation regulations.

Attention! During wiring and installation of the lights and power supply units, always disconnect the power supply work. Failure to observe this warning may result in defects in the LED modules and control gear.

	- Leuchte spannungslos schalten. - Brancher les luminaires hors tension. - Accendere l'apparecchio om assenza di tensione. - Disconnect lamp from the power supply.
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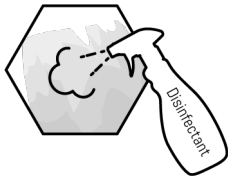
	- Nur für den Gebrauch in Innenräumen. - Ce produit est conçu uniquement pour une utilisation intérieure. - L'apparecchio è previsto solo per uso interno. - This product is designed for indoor use only.
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	- Nicht über den Haushaltsmüll entsorgen, sondern ordnungsgemäss dem Recycling zu führen - Ne doit pas être jeté dans la poubelle, veuillez utiliser un centre de recyclage approprié. - Non gettare nei rifiuti domestici, ma effettuare il corretto riciclaggio. - Do not dispose as household waste, but make the proper recycling.
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	- Gefährliche Spannung! Leuchte zuerst vom Netz trennen. Es besteht Lebensgefahr. - Tension électrique dangereuse! Commencer par débrancher les luminaires. Danger de mort. - Tensione pericolosa ! Scollegare prima di tutto l'apparecchio di illuminazione dalla rete elettrica. Pericolo di morte. - Danger voltage! Disconnect the luminaire from the mains first. Risk of fatal injury.
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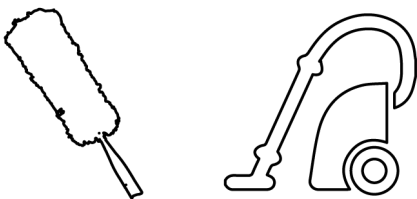
SURFACE DISINFECTION

Spray disinfectants can be used for rapid surface disinfection.



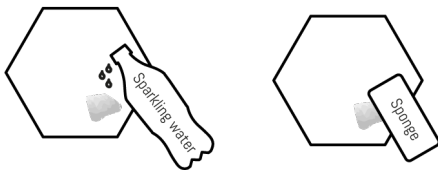
DUSTER/VACUUM CLEANER

For dusting use duster or vacuum cleaner.



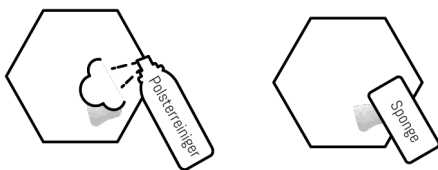
SPARKLING WATER

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



UPHOLSTERY CLEANER

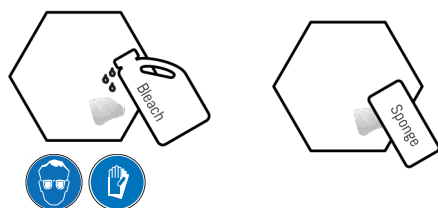
For medium contamination apply upholstery cleaner to polluted area. Wipe carefully with a sponge.



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.