Checklist & Standards

Ardeo by Keus

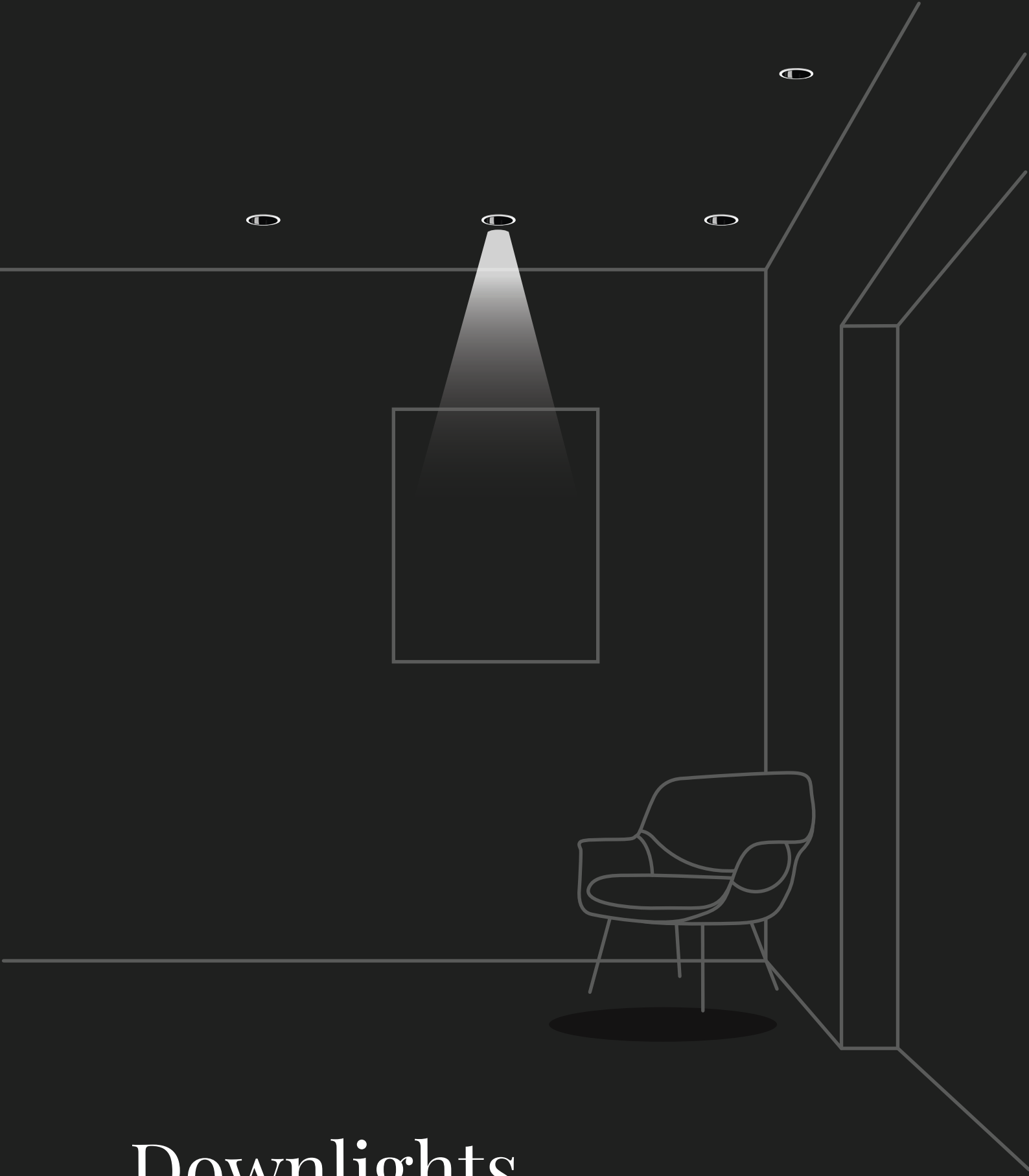
keus.in/lights

Nov 2025



Statement of Purpose

At Ardeo, we believe in illuminating lives beyond mere brightness. Our commitment is to ensure that every light fixture you choose radiates perfection. With our comprehensive installation guidelines and best practices, we are fully invested in ensuring that you are able to seamlessly blend Ardeo's technical lights into your world. Choose right, install with precision, and let Ardeo's luminance bring out the best in your space. Your vision, our expertise— together, we'll shine.



Downlights & Spots

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02 Handling Ceiling Obstructions

03 Ceiling Depth

04 Ceiling Cut-outs

06 Changes

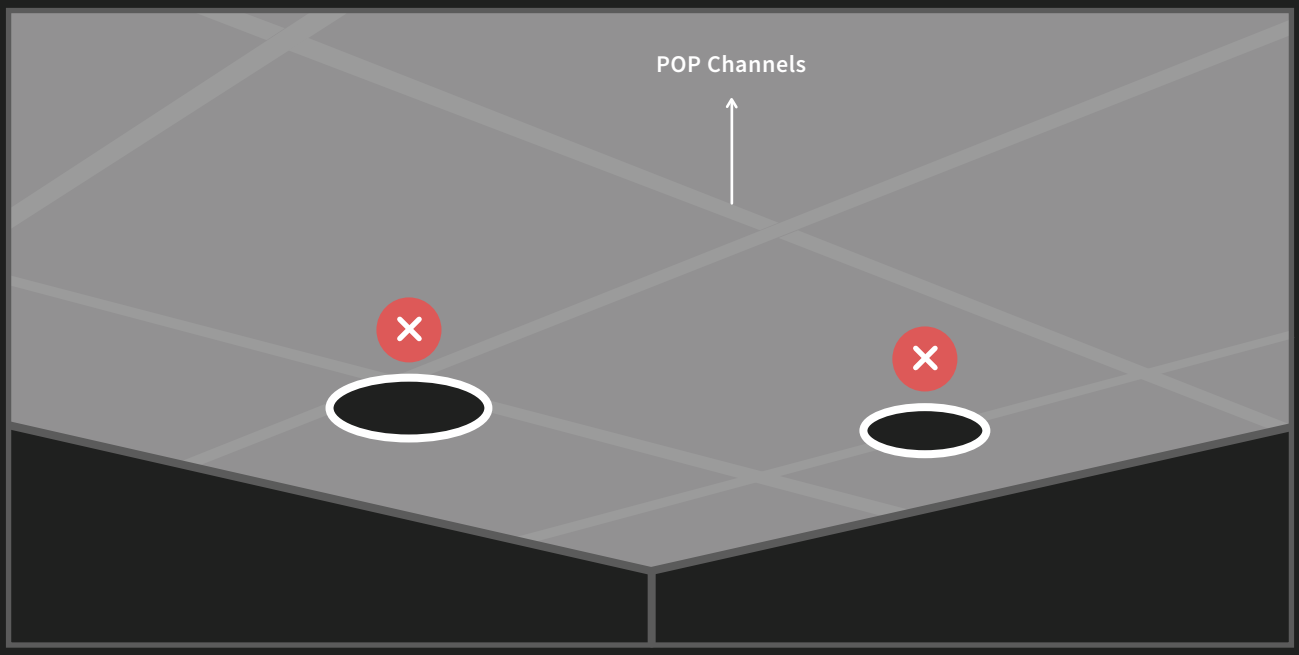
07 Beam Angle & Direction Adjustments

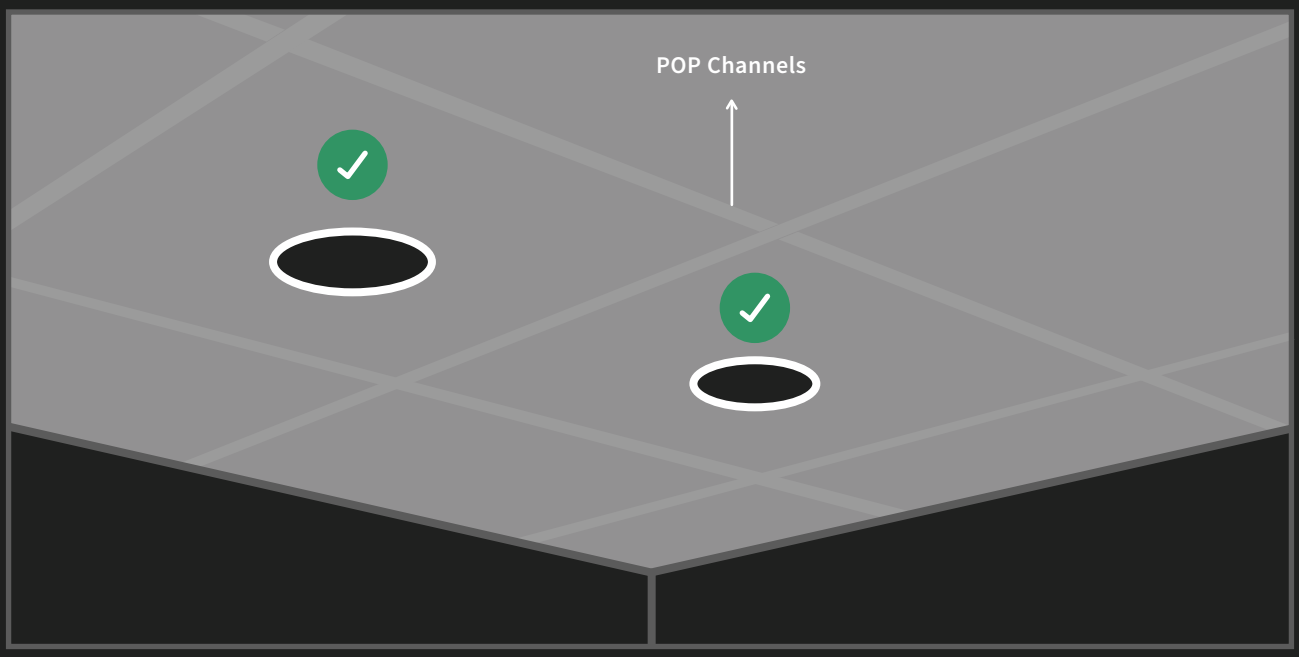
08 Installation

09 Driver & Controllers Positioning

HANDLING CEILING OBSTRUCTIONS

Sometimes light positions can be obstructed by False Ceiling / POP Channels, please address the same with your PMC / Site Team.



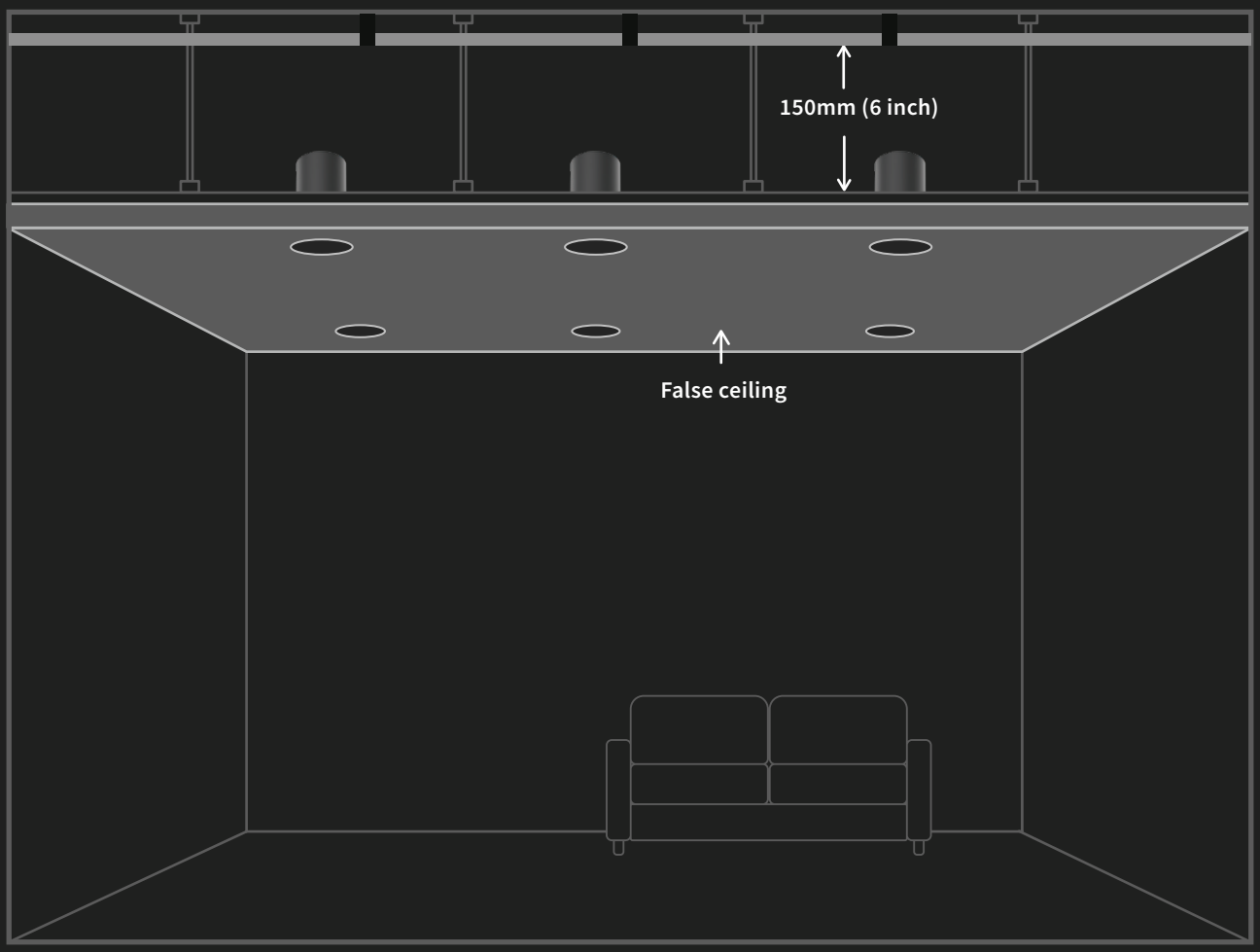


NOTE

It is better to adjust the channels to accommodate a light where it was planned, rather then change the light positions.

CEILING DEPTH

Please ensure that there is adequate ceiling depth to accommodate the selected lights.



BEST PRACTISES

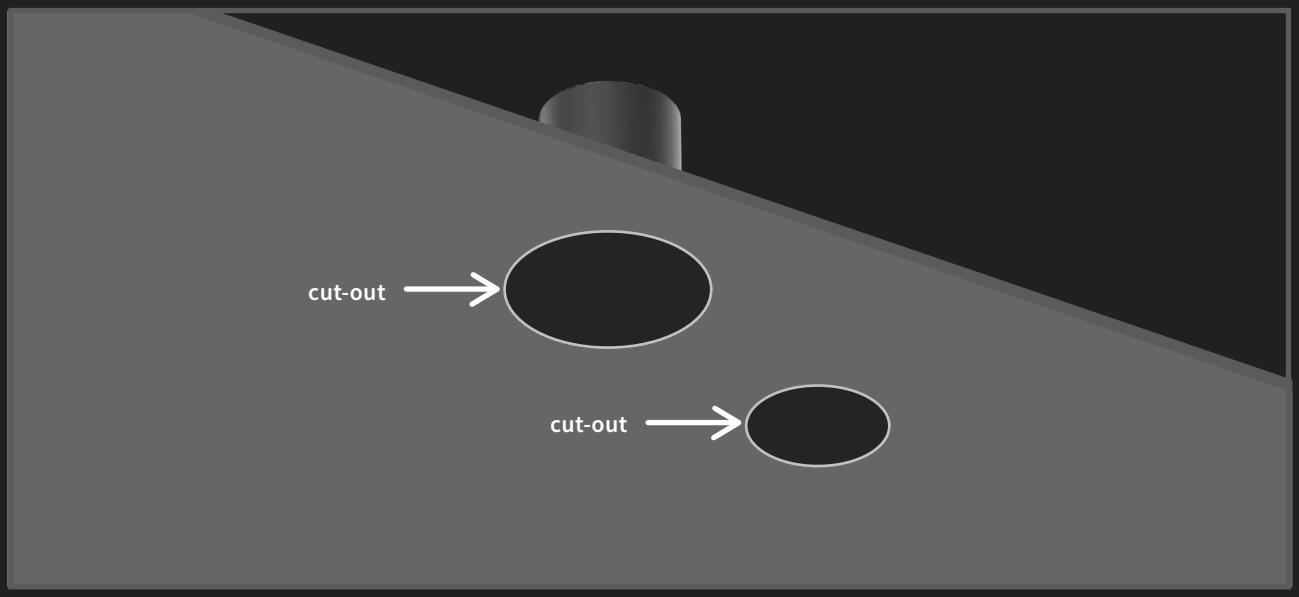
Some lights need a depth of 150mm (6 inch) (Ex: Glare Less Dowlights) so at least provide for the same.

Ensure to have 150 mm(6inches) usable gap above the false ceiling, and ensure the targeted light positions aren’t directly below AC Ducts/Pipes etc.

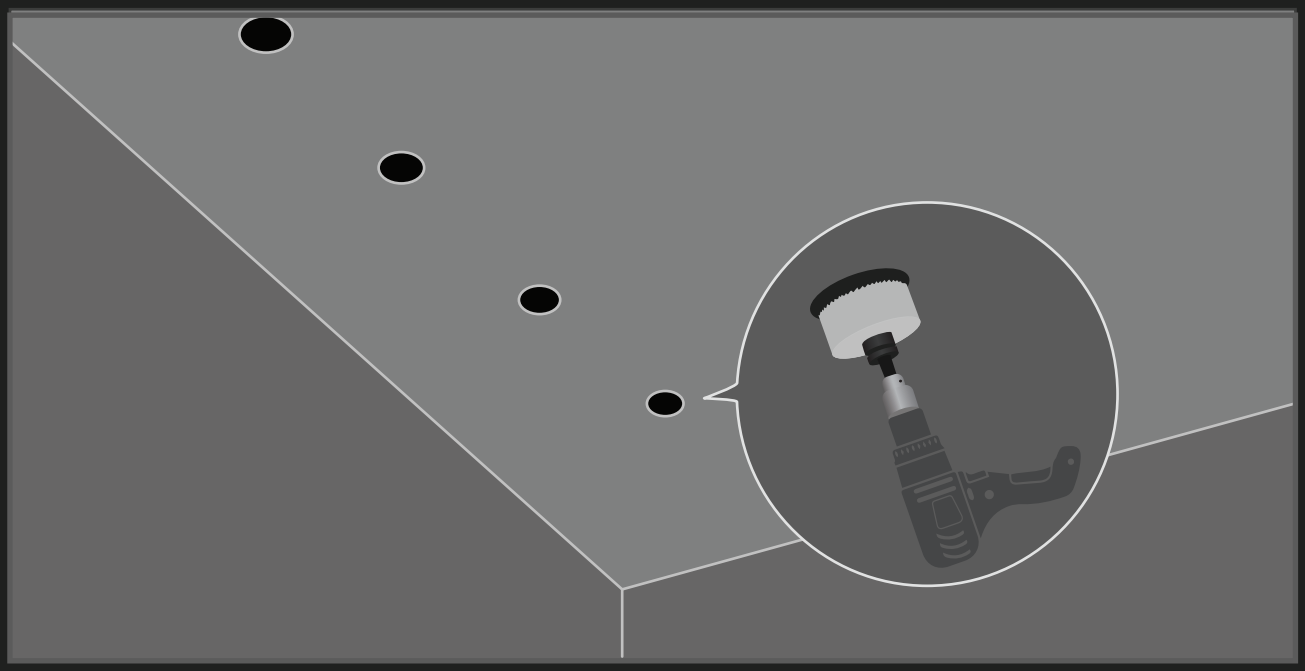
More ceiling depth is always better, if the site conditions permit.

CEILING CUTOUTS

Please work with Ardeo Team to obtain and share correct cut-out dimensions with your PMC /Site Team.



The positioning of light cut-outs should adhere to the design/specifications suggested by the Ardeo lighting designers to ensure the realization of the targeted lighting intent.



BEST PRACTISES

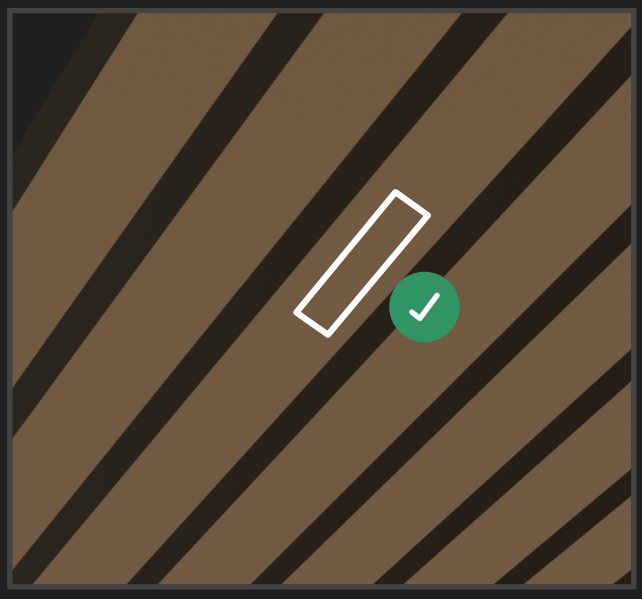
Cutouts should be done by the ceiling Contractor/ carpenter for Wooden Ceiling before painting/polishing the ceiling.Using Good Tools with precise hole saws ensures neat cut-outs.

Using Good Tools with precise hole saws ensures neat cut-outs.

CEILING CUTOUTS

Ensure all ceiling cutouts, especially in wooden ceilings, are precisely aligned with the veneer grain direction and groove pattern.





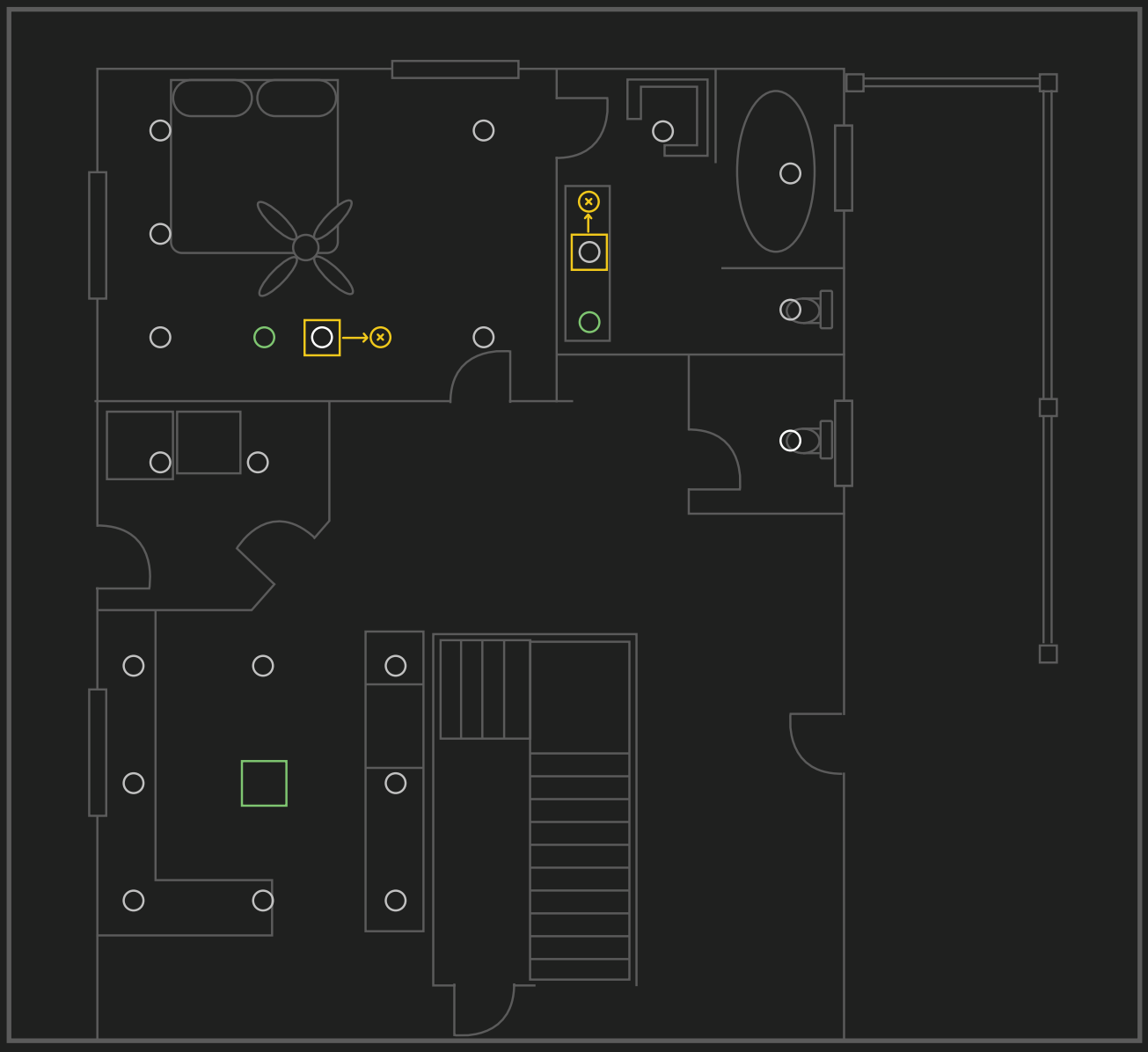


WATCH OUT

Ceiling Alignment: Lights must be aligned with the ceiling pattern, especially on wooden or design ceilings.

CHANGES

Any change in the lighting drawing/site condition change, that can affect the Order Variables (colour, quantity, positioning, etc) must be informed promptly to Ardeo Operations Team. This ensures accurate dispatch and a smooth installation process.



WATCH OUT

If Light positions are added or relocated, it may result in the need for additional lighting fixtures to cover the new areas or achieve the desired lighting levels.

If the AC layout is being changed, notify the team immediately.

Any additional or resizing of ceiling fans must be communicated to Ardeo, especially if the diameter exceeds 1200mm, as it may require repositioning of lights.

NOTE

Once the fixtures are unboxed/installed/opened, the same cannot be returned back.

BEAM ANGLES & DIRECTION ADJUSTMENTS

Please decide size and locations of planned artworks (Paintings/Sculptures etc) early, as this will ensure that the right beam angles are suggested.

It is important to ensure that the luminaires are appropriately directed towards the expected art locations, during the installation by your site contractors.

If there is any change in furniture layout, please ask your site contractors to adjust the light directions accordingly.



NOTE

Lights, Once installed cannot be returned back.

INSTALLATION

Your Painting contractors, Ceiling contractors and Electrical contractors, must coordinate and plan well to install the ceiling lights.



BEST PRACTISES

Once the light fixtures are installed, it is suggested to cover same with paper / seal with tape, in order to protect them from scratches and painting marks.

Before beginning the wiring tasks for the True Ceiling, make sure to get in touch with the Keus team.

DRIVER & CONTROLLERS POSITIONING

For Cabinet Lights and Spot Lights installed in niches etc - Please have a designated space for driver placement.



BEST PRACTISES

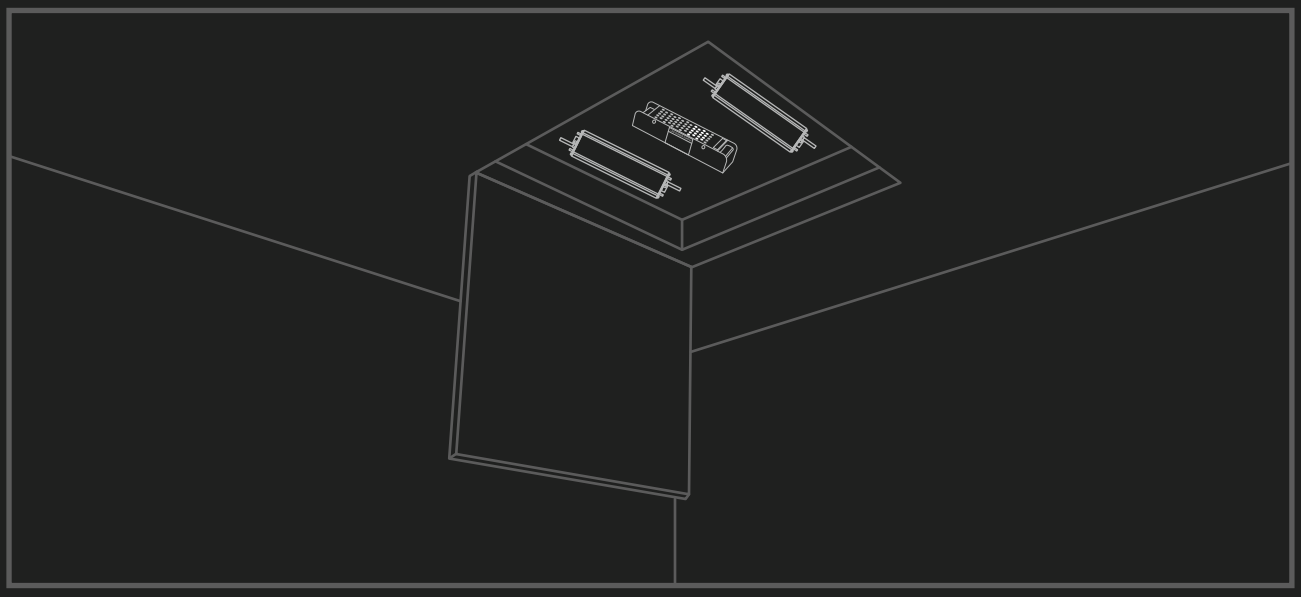
Controllers / LED power supplies or drivers can be placed in ventilated cabinet either In the plinth/baseboard or Inside the cabinet or On top of the cabinet.

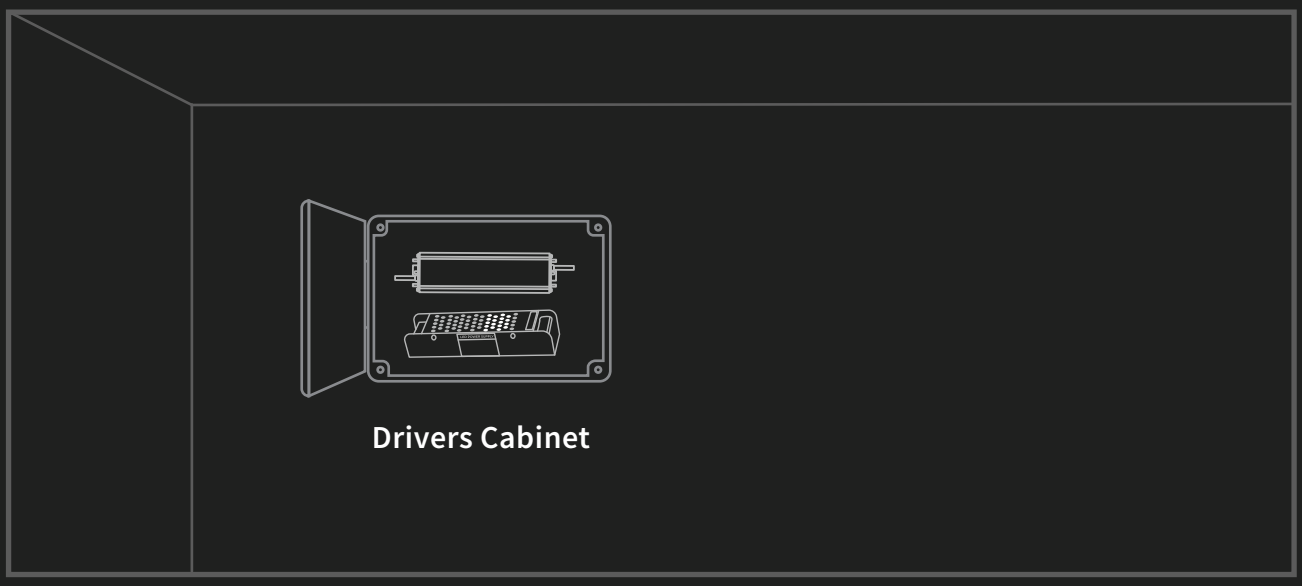
WATCH OUT

Controllers / LED power supplies / Ballasts and Drivers must be placed in areas that are moisture-free and easy to access.

DRIVER & CONTROLLERS POSITIONING

Before beginning electrical wiring works, it is important to determine the location of the Trap door/Driver cabinet, whether it is for a false ceiling or a true ceiling. The Drivers cabinet should be mounted on the wall for a true ceiling, while for a false ceiling trap door/driver cabinet. The trap door/driver cabinet should be placed in an easily accessible location.





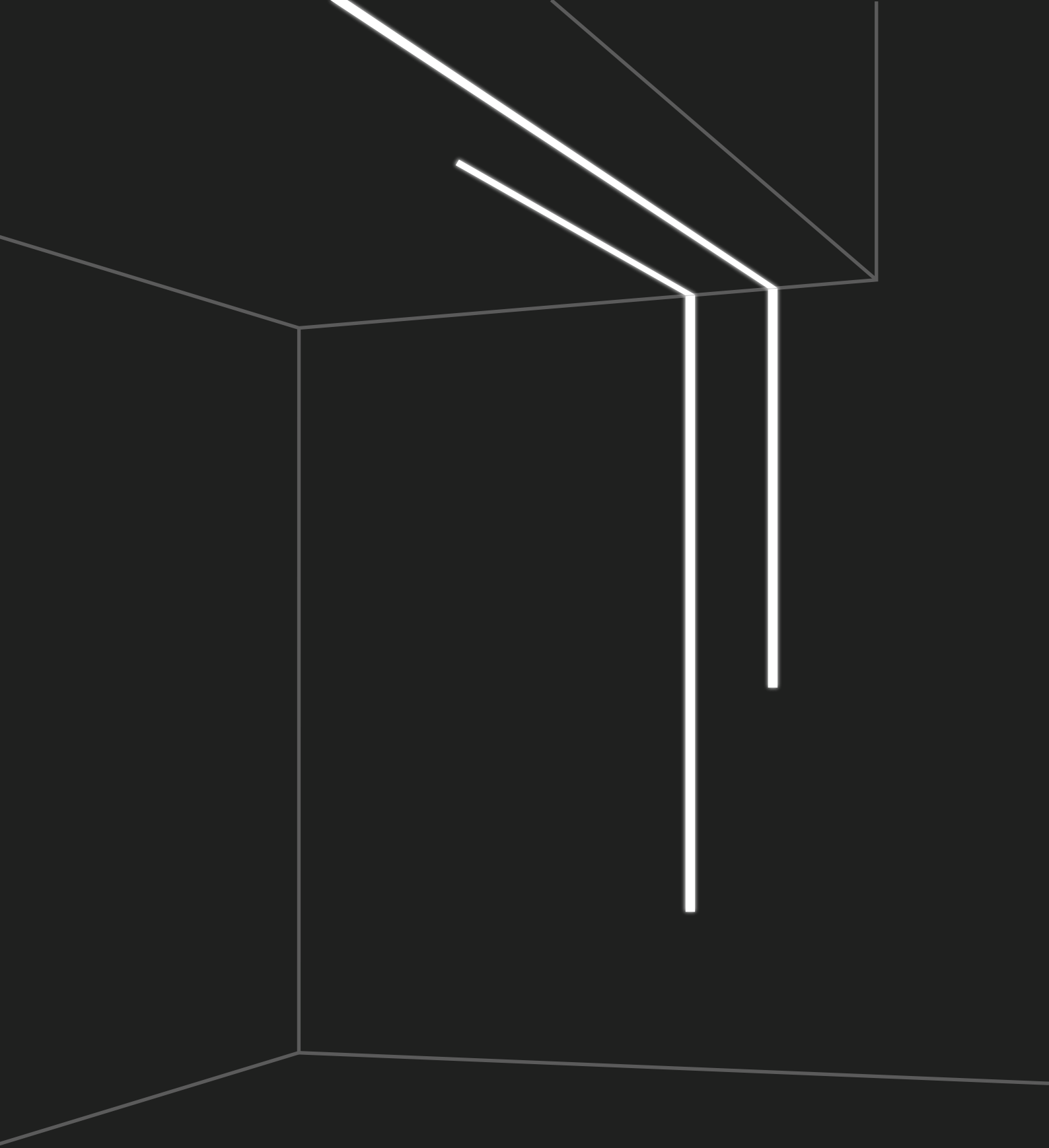
Drivers Cabinet

BEST PRACTISES

It is highly recommended that an earth wire is pulled to the Trap door/ Driver cabinet.

Controllers/Drivers can be placed in the ventilated cabinets.

Ensure that the Trap door/Driver cabinet space is adequate and can accommodate the drivers comfortably, and allows for easy installation, and maintenance.



Profiles + LED

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13 Ceiling Profiles

14 Furniture Profiles

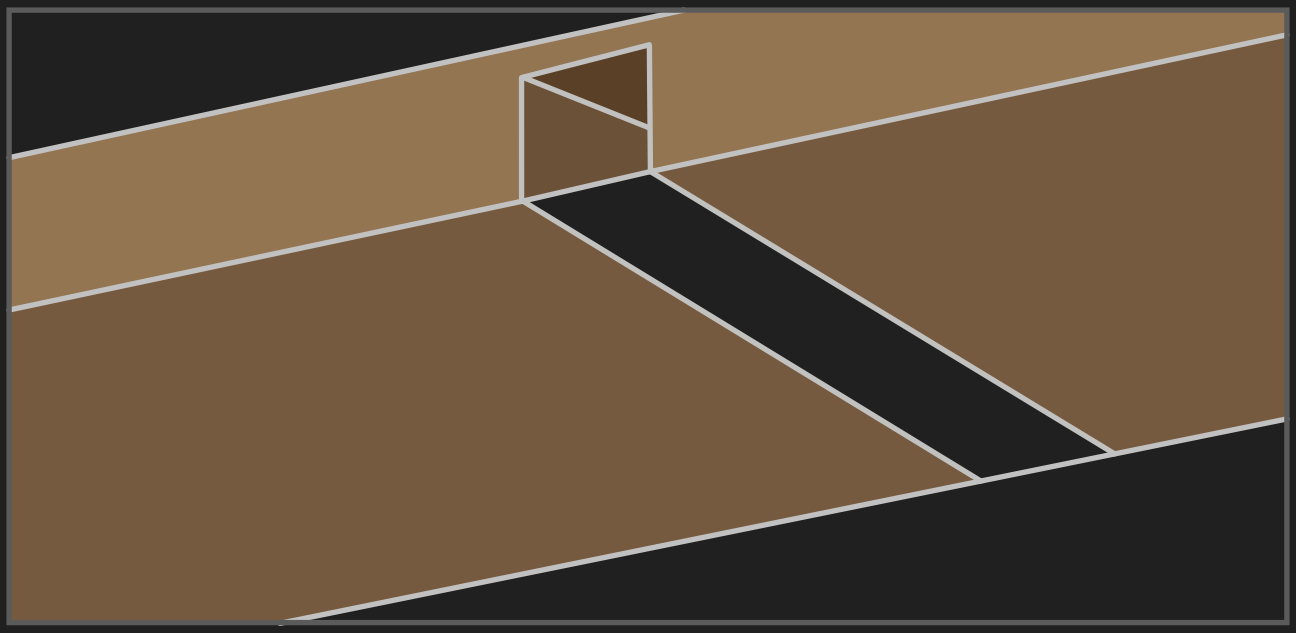
15 Cove Lights

16 Curtain Grazing Lights

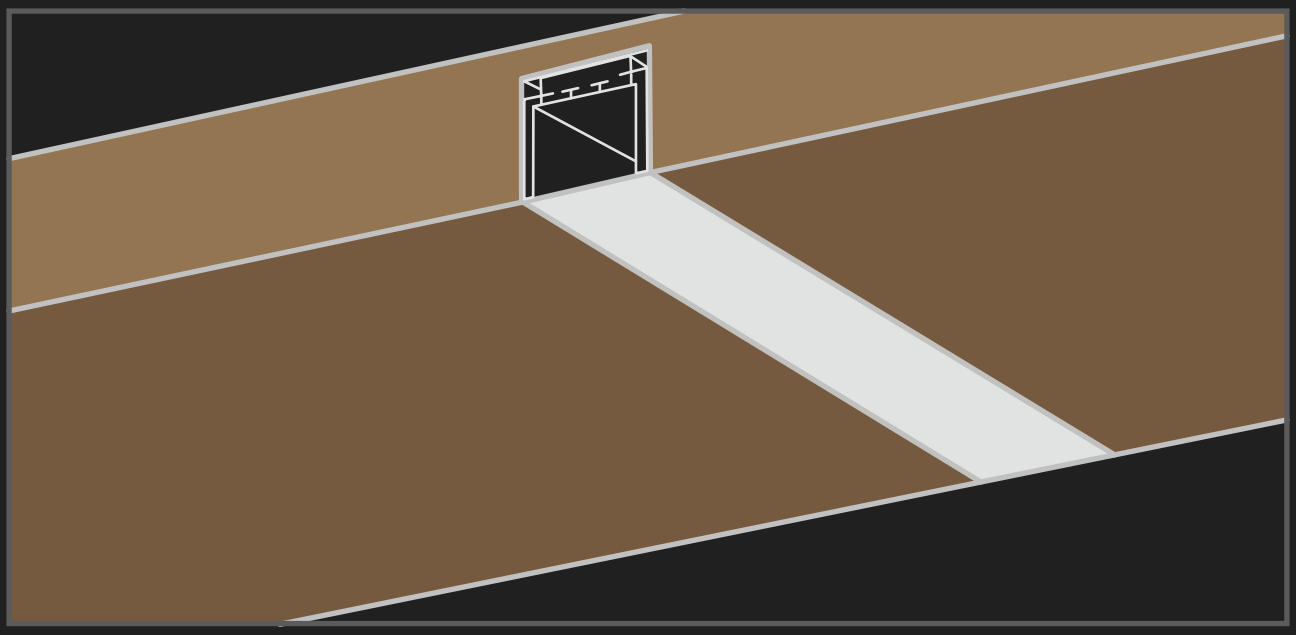
17 Other Types of Profiles

CEILING PROFILES

In case you have opted for large or heavy ceiling profiles, you will need to provide wooden support for the same (Please check with Ardeo operations team if this is needed at your project).



It is better to install aluminium profiles early during your site work, to avoid POP channel rework later.

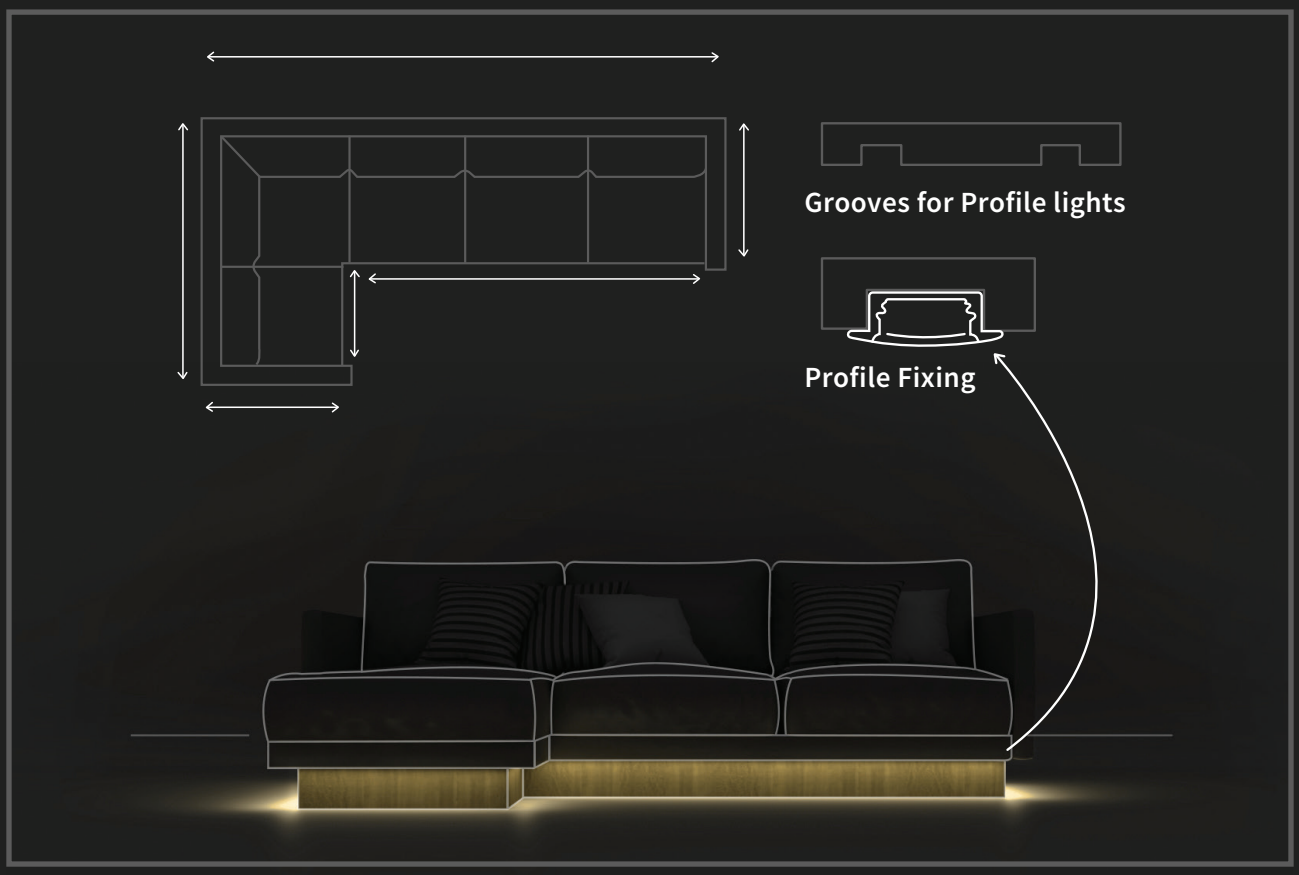


BEST PRACTISES

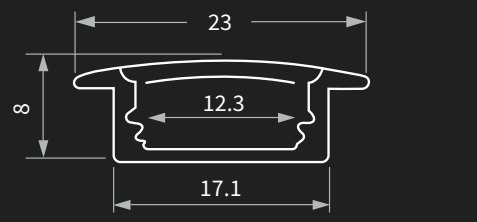
Once the Profiles are installed, it is suggested to cover same with paper / seal with tape, in order to protect them from scratches and painting marks.

FURNITURE PROFILES

Plan Furniture Profiles in advance, Obtain dimensions/ Samples from Ardeo team and make grooves for the same for seamless fixing of the profile.

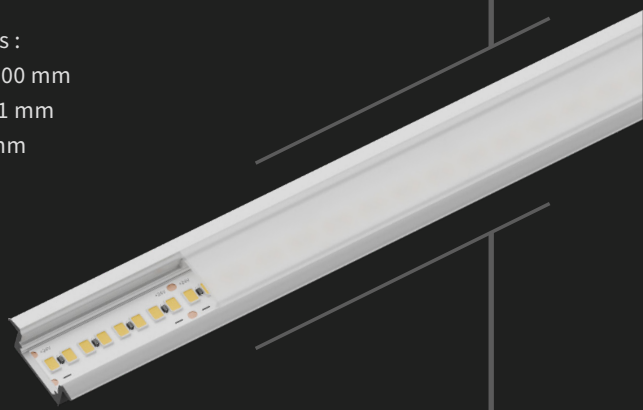


If profiles are coming with your furniture, and lights are from Ardeo, Please communicate profile dimensions to ensure the right strip light is suggested.



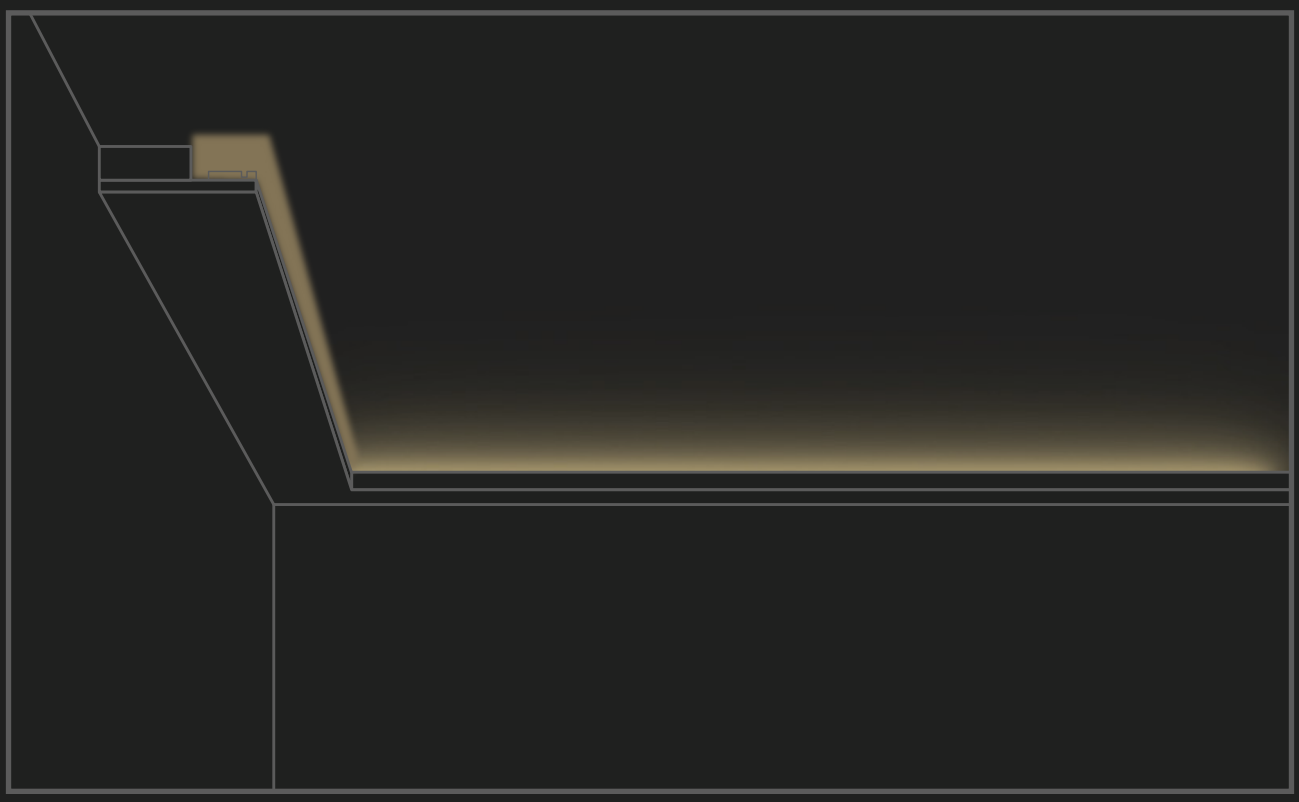
*All the dimensions in mm.

Dimensions :
Length: 1000 mm
Width: 17.1 mm
Height: 8 mm

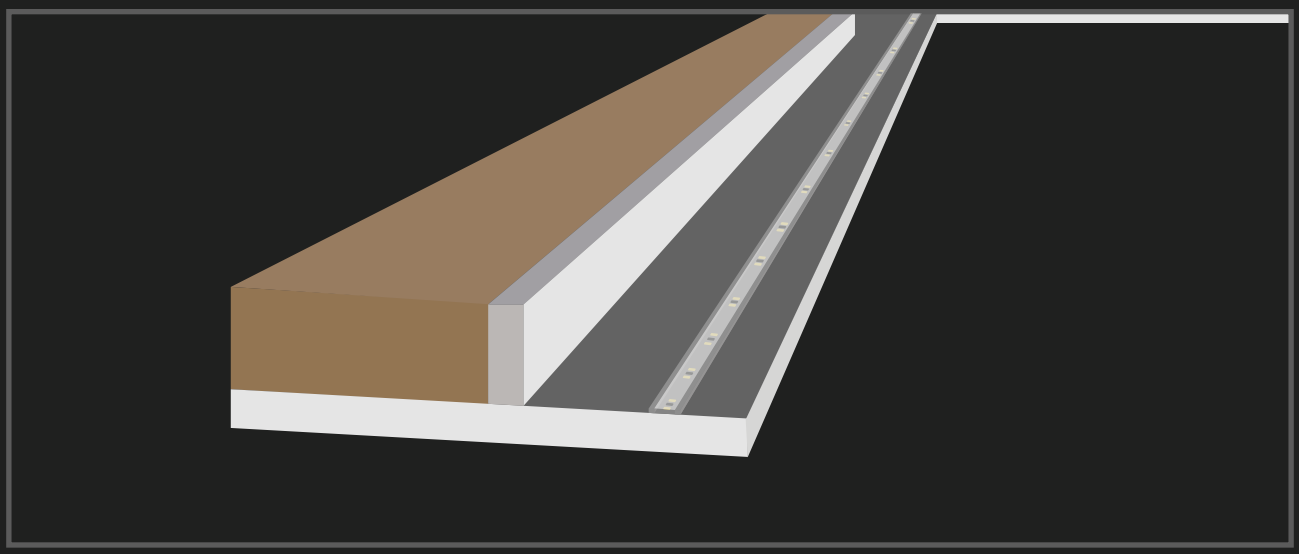


COVE LIGHTS

Cove Lights must only be installed after painting work is done.



The cove should be fully cleaned of paint clumps, dust and dirt etc, as this can affect the evenness of light quality from the cove.



BEST PRACTISES

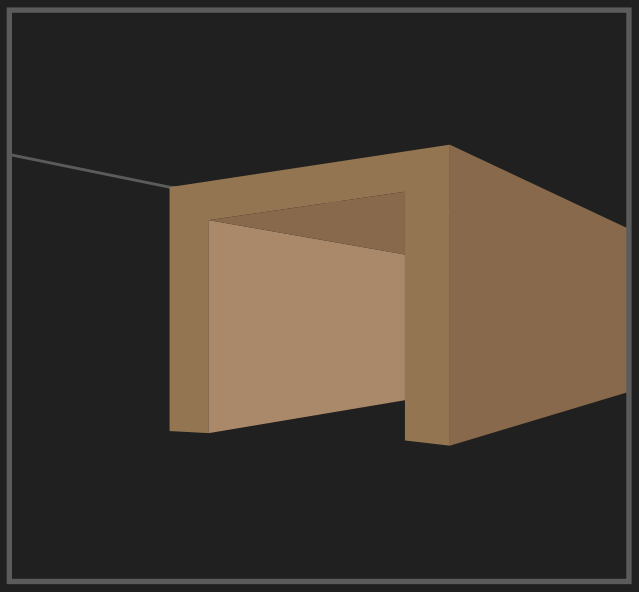
Before beginning the wiring tasks for the True Ceiling, make sure to get in touch with the Keus team.

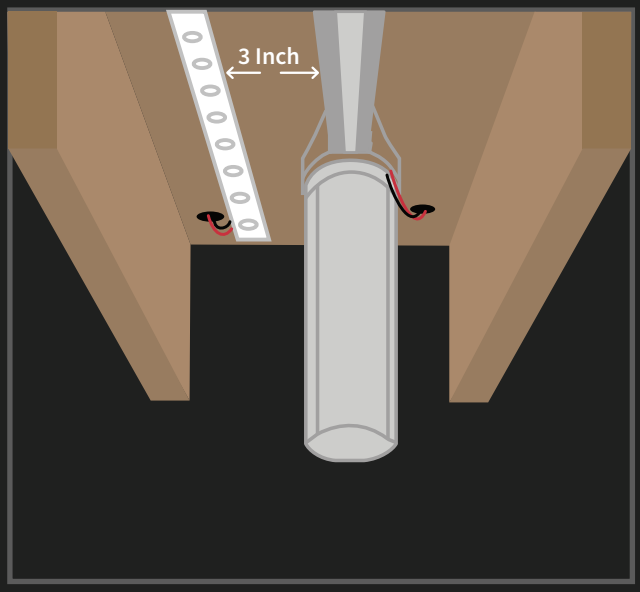
CURTAIN GRAZING LIGHTS

These require to be installed in a proper pelmet to create a low glare high quality grazing experience.

Please drop a electrical wire at one end of the pelmet.

PELMET







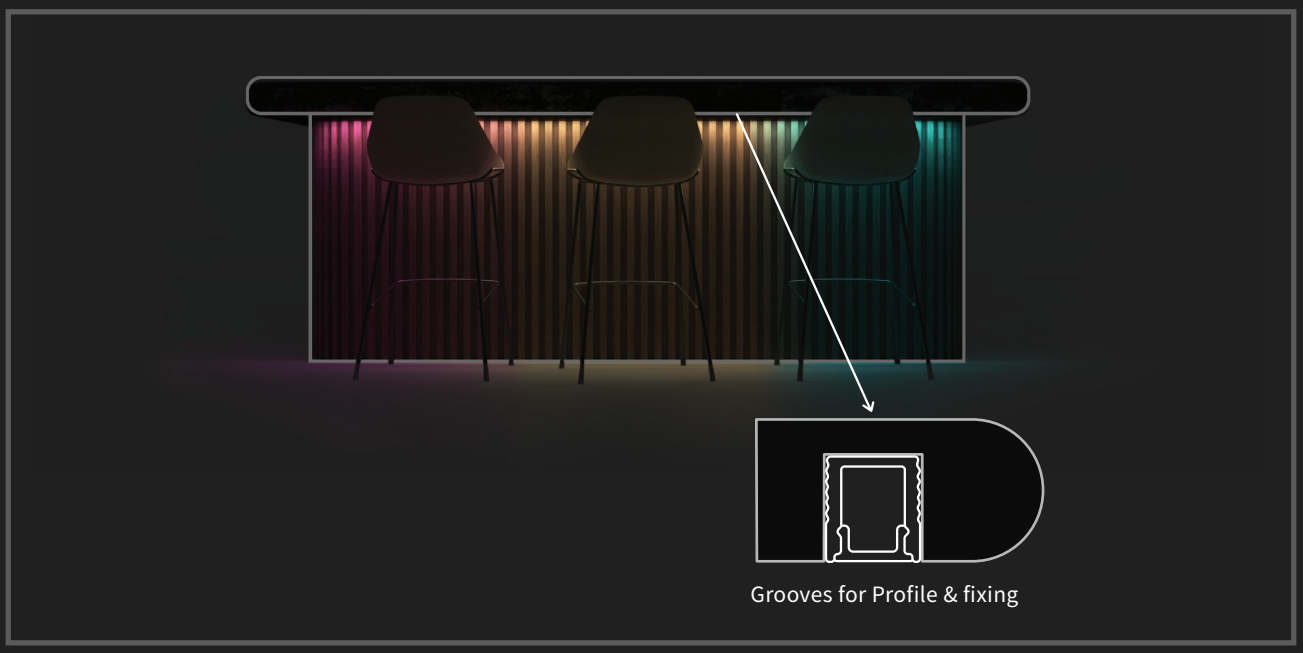
WATCH OUT

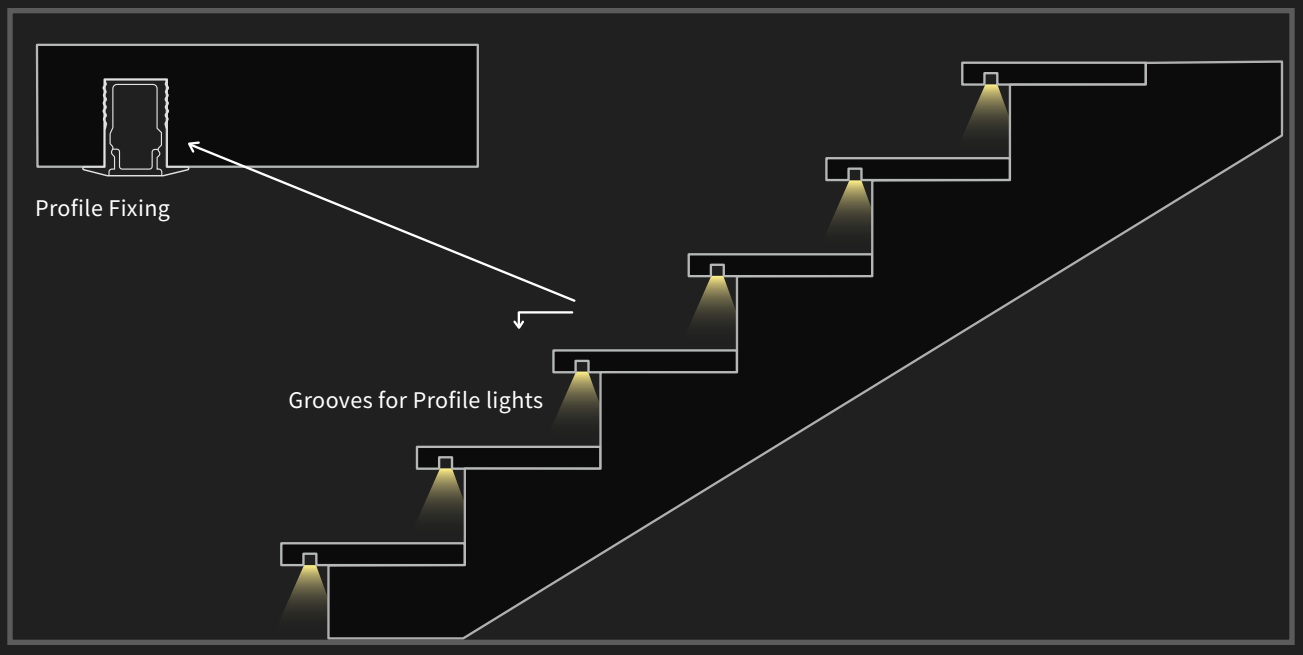
Plan for additional 1 inch width in the curtain pelmet, to get a good grazing effect.

Grazer light Power supply & Automation controller placement has to be planned for a remote location (Trap door etc) (Do not plan near curtain).

OTHER TYPES OF PROFILES

If opting for Strip Lights under stone counters / Under stone stairs, Please plan the grove and wiring for the same in advance.

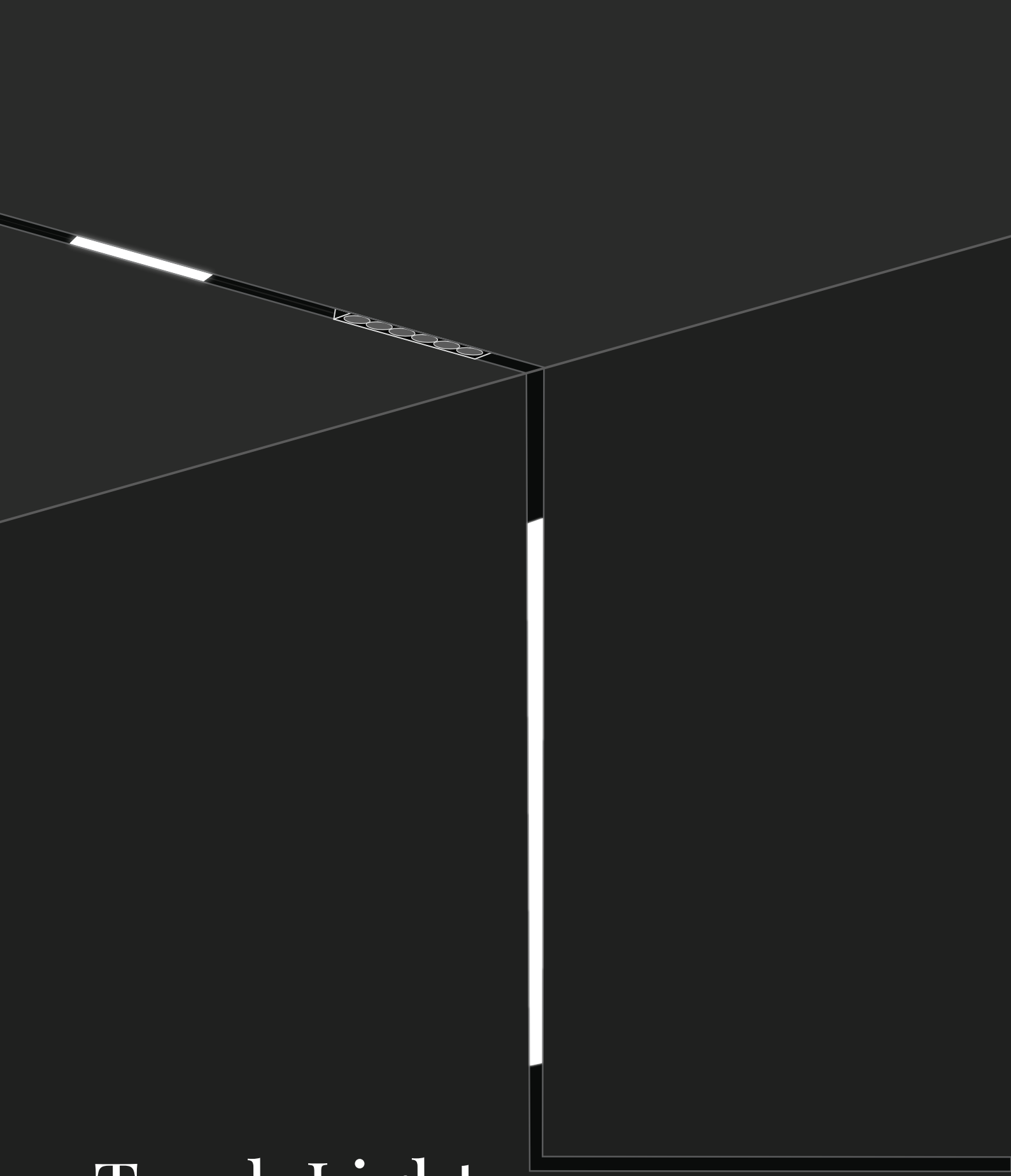




WATCH OUT

Ensure the stone surface is clean and free from dirt, dust, and debris so that the light can be installed properly.

Care has to be taken to ensure appropriate remote driver placement.

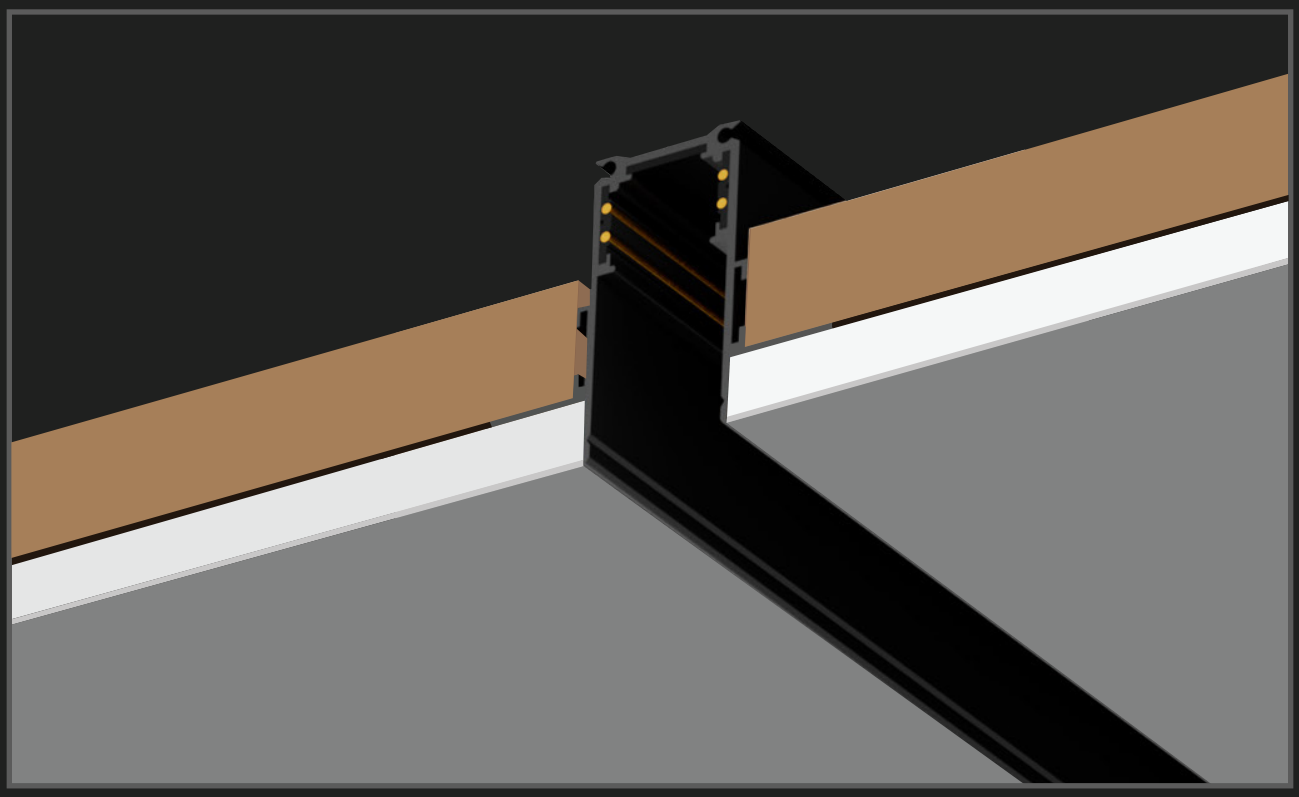


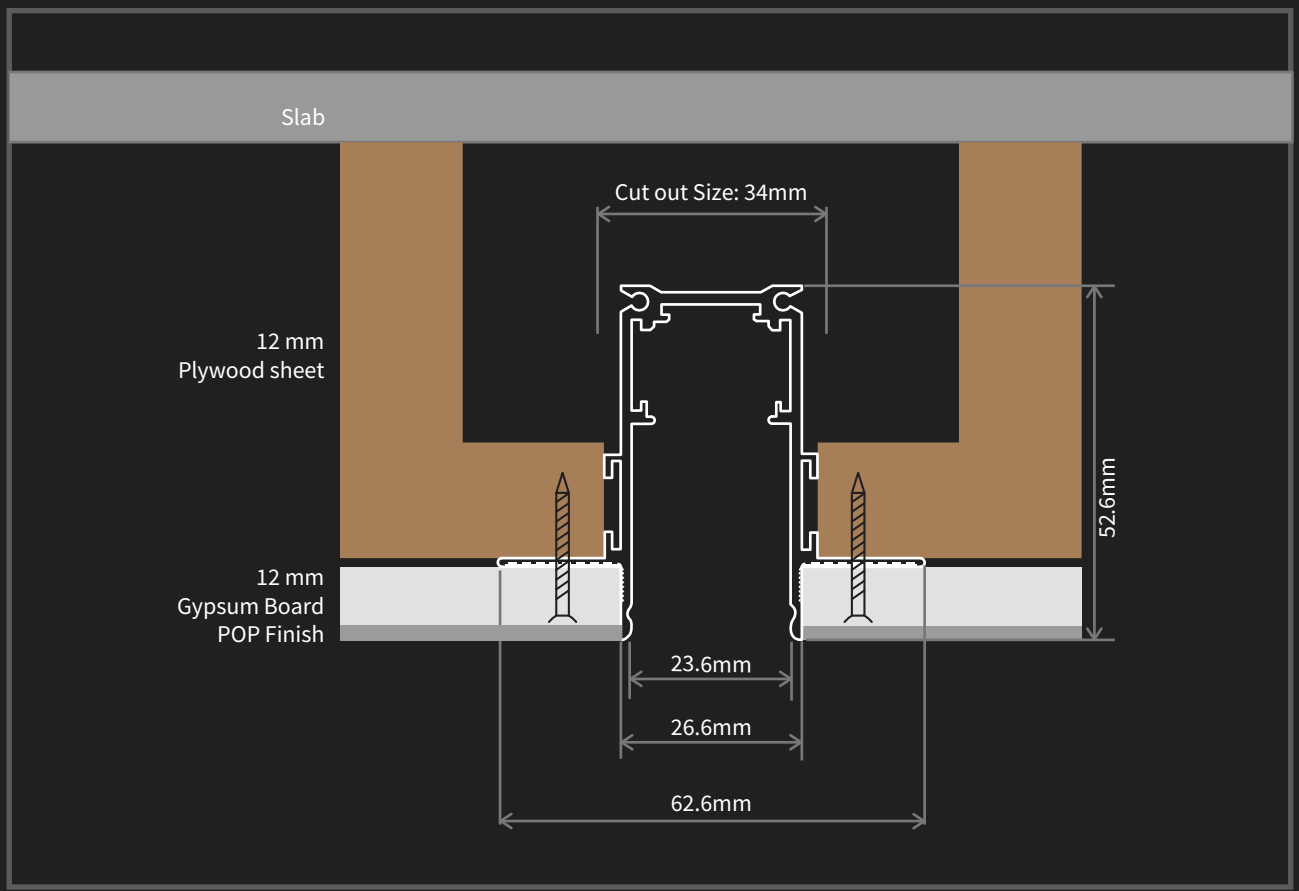
Track Lights

20 Fixing and Installation

FIXING AND INSTALLATION

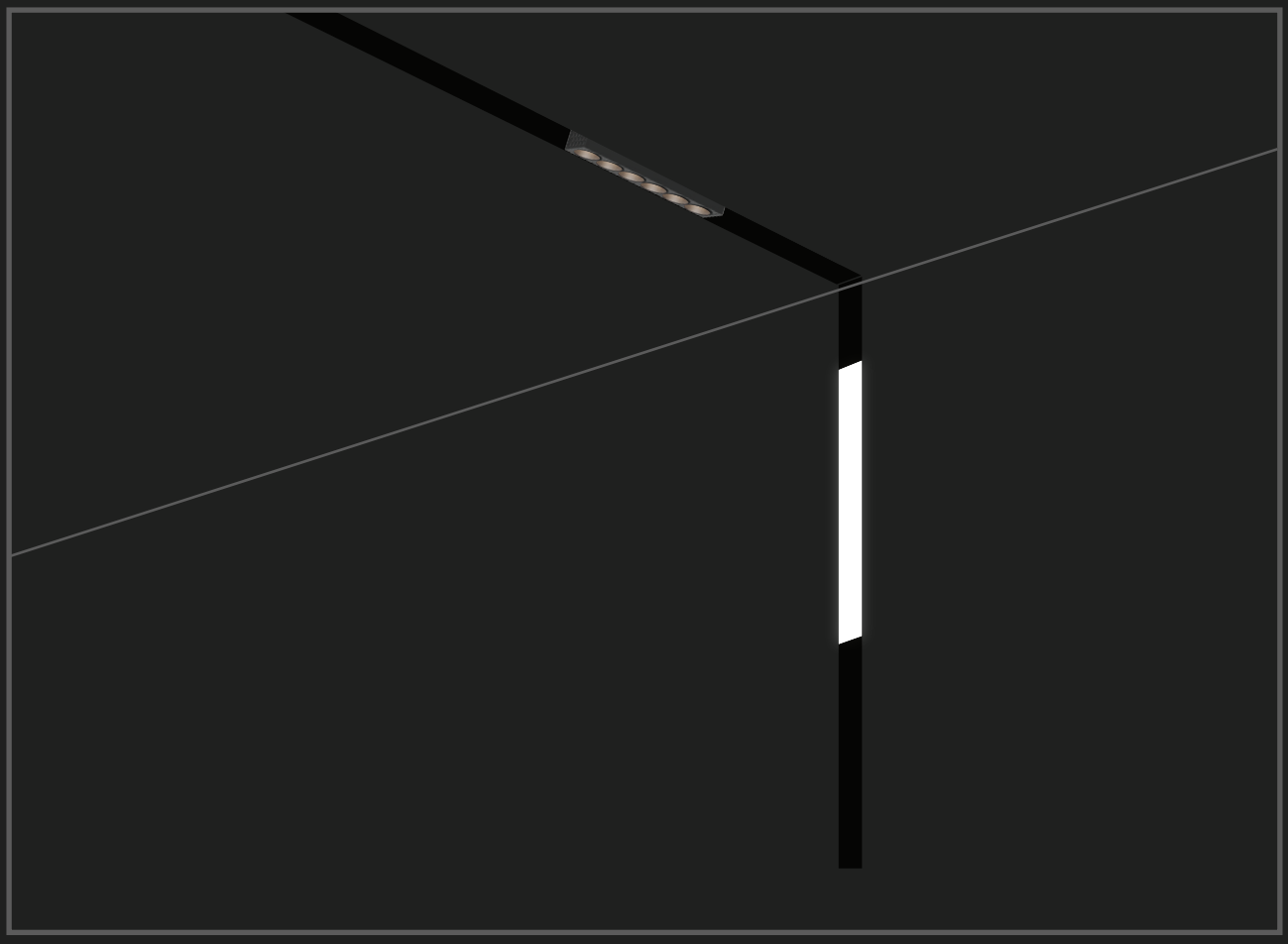
Tracks are heavy and require wooden support, this has to be done by the client site contractors as per the specifications and instructions from Ardeo operations team.





FIXING AND INSTALLATION

Tracks Installation must be done before ceiling gets closed. Dali/ Connectivity testing will be done by Ardeo/Keus operations team.



BEST PRACTISES

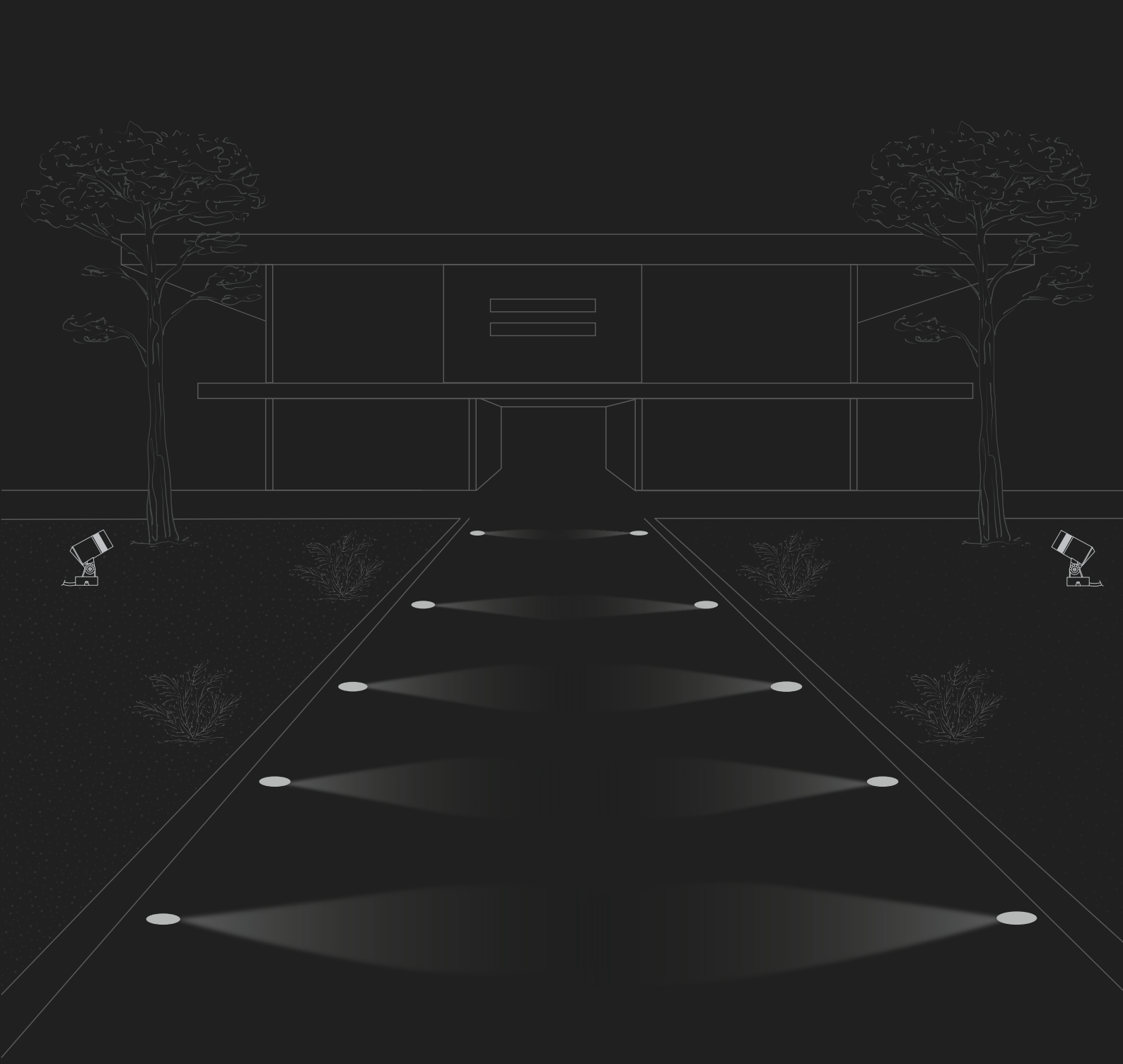
Ensure to Pack and seal the tracks after Installing to avoid dust/paint/damage/deformation of the track due to site activities.

Before beginning the wiring tasks for the True Ceiling, make sure to get in touch with the Keus team.

WATCH OUT

Please get in touch with Ardeo and Keus teams before the ceiling is closed for final checking and testing. This is important so as to avoid rework later.

Please ensure to have earthing wire available at the track.



Outdoor Lights

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24 Basic of Outdoor Wiring

26 Installation of Landscape Spot Lights

27 Installation of Recessed Inground Lights

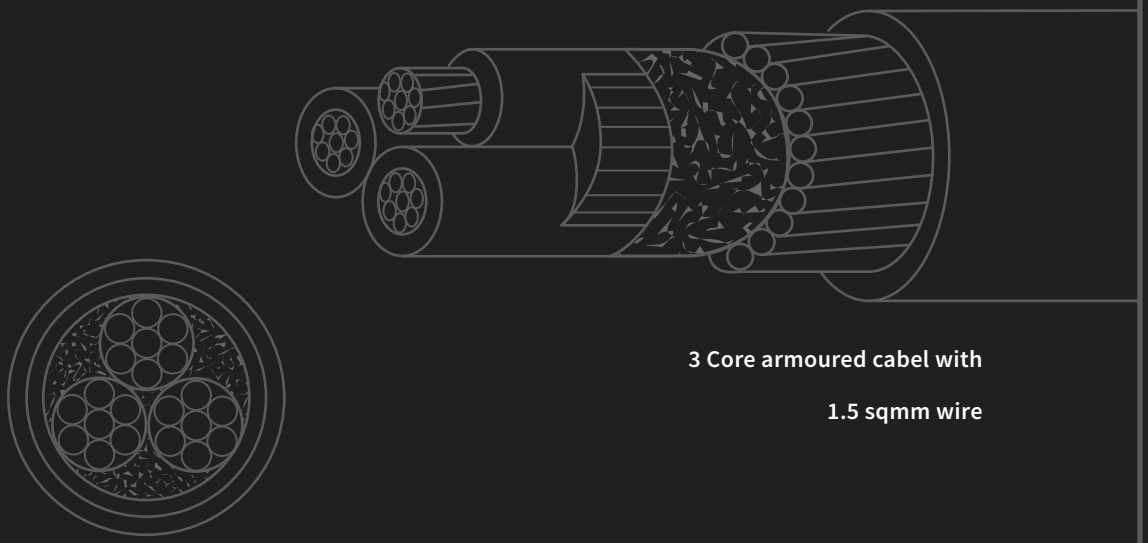
28 Installation of Submersible Recessed Lights

30 Installation of Submersible Surface Lights

31 Driver Location

BASIC OF OUTDOOR WIRING

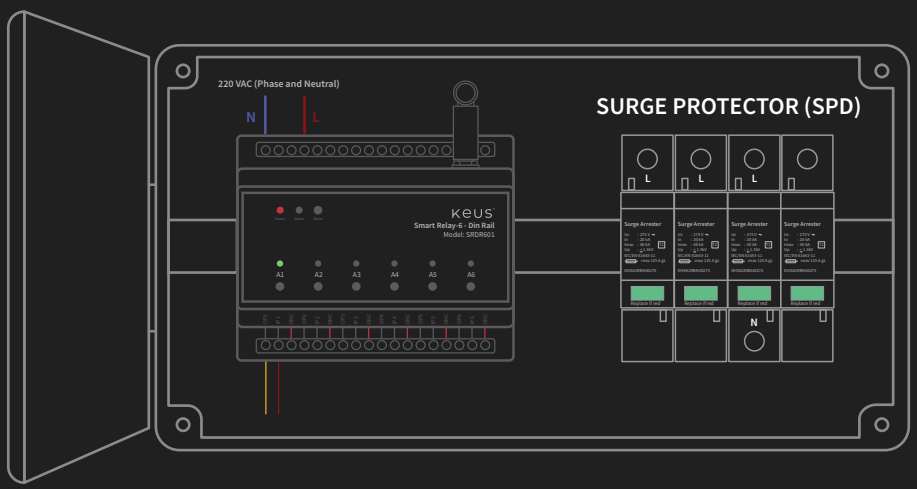
For landscape lighting, it is recommended to use 3 Core armoured cabel with 1.5 sqmm wire.



3 Core armoured cabel with

1.5 sqmm wire

To ensure that your outdoor lighting is safe, it is recommended to use a dedicated circuit and a surge protector. The circuit should be set up in a PVC box that has an IP rating and can hold up to 15 Din Rail Slots.



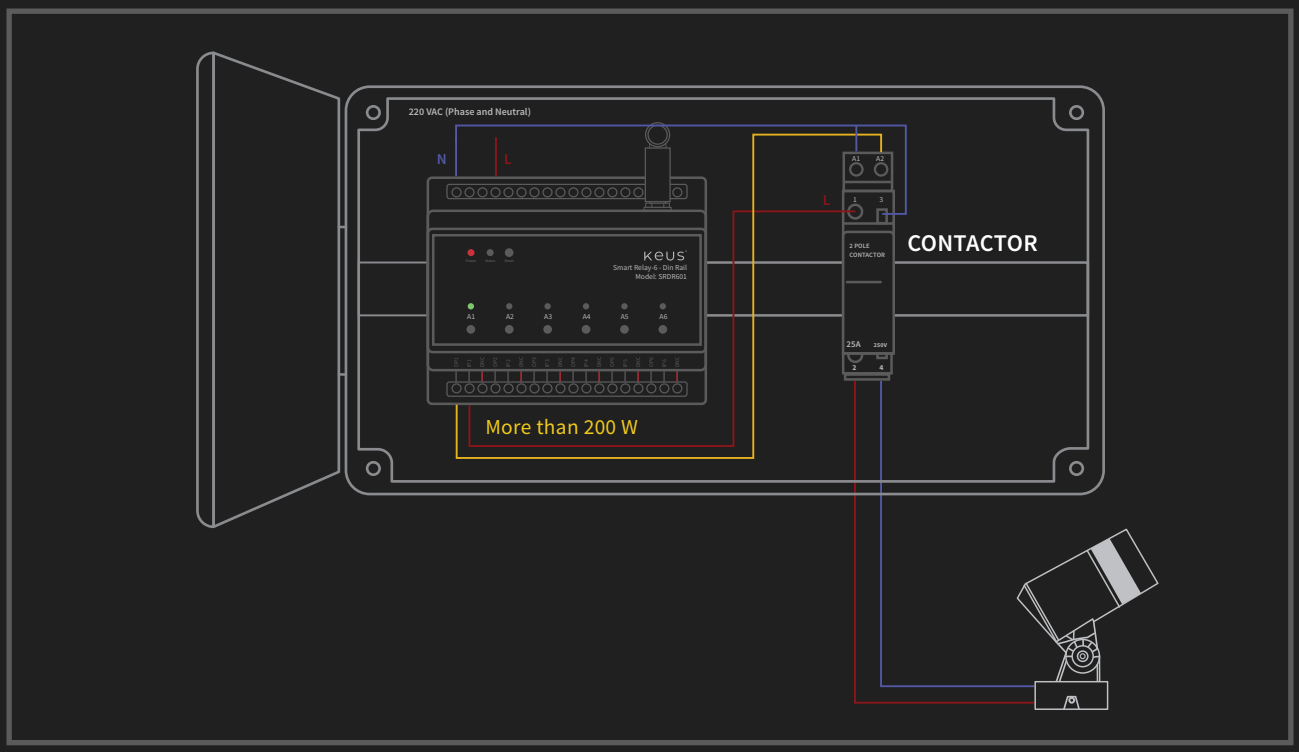
WATCH OUT

DB should be IP rated and made of PVC material.

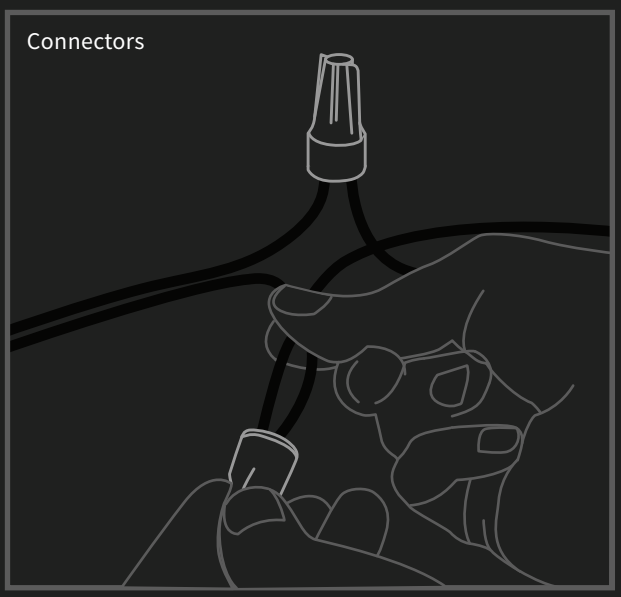
BASIC OF OUTDOOR WIRING

Have a dedicated, “IP Rated PVC DB Box” of appropriate size, for outdoor wiring. Avoid creating loops which are larger than 200w load. Install a 2 phase/3phase surge protection device at the DB, as needed.

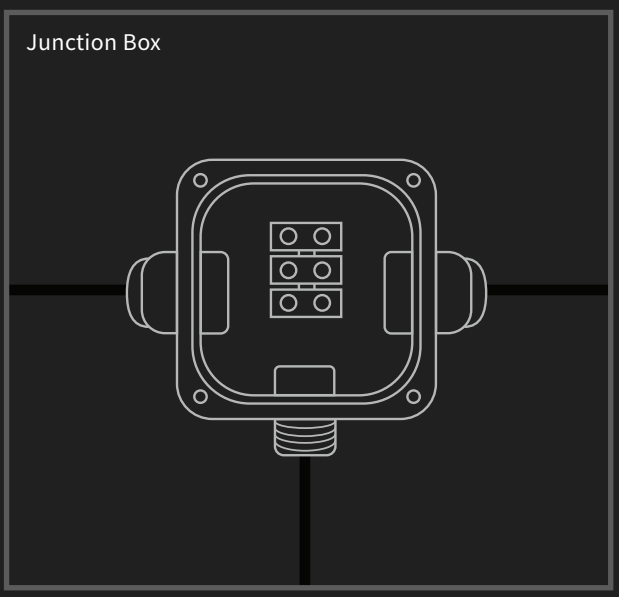
When planning wiring, be sure to include waterproof connectors or junction boxes to prevent any water leakage around electrical joints and connectors.



Connectors



Junction Box



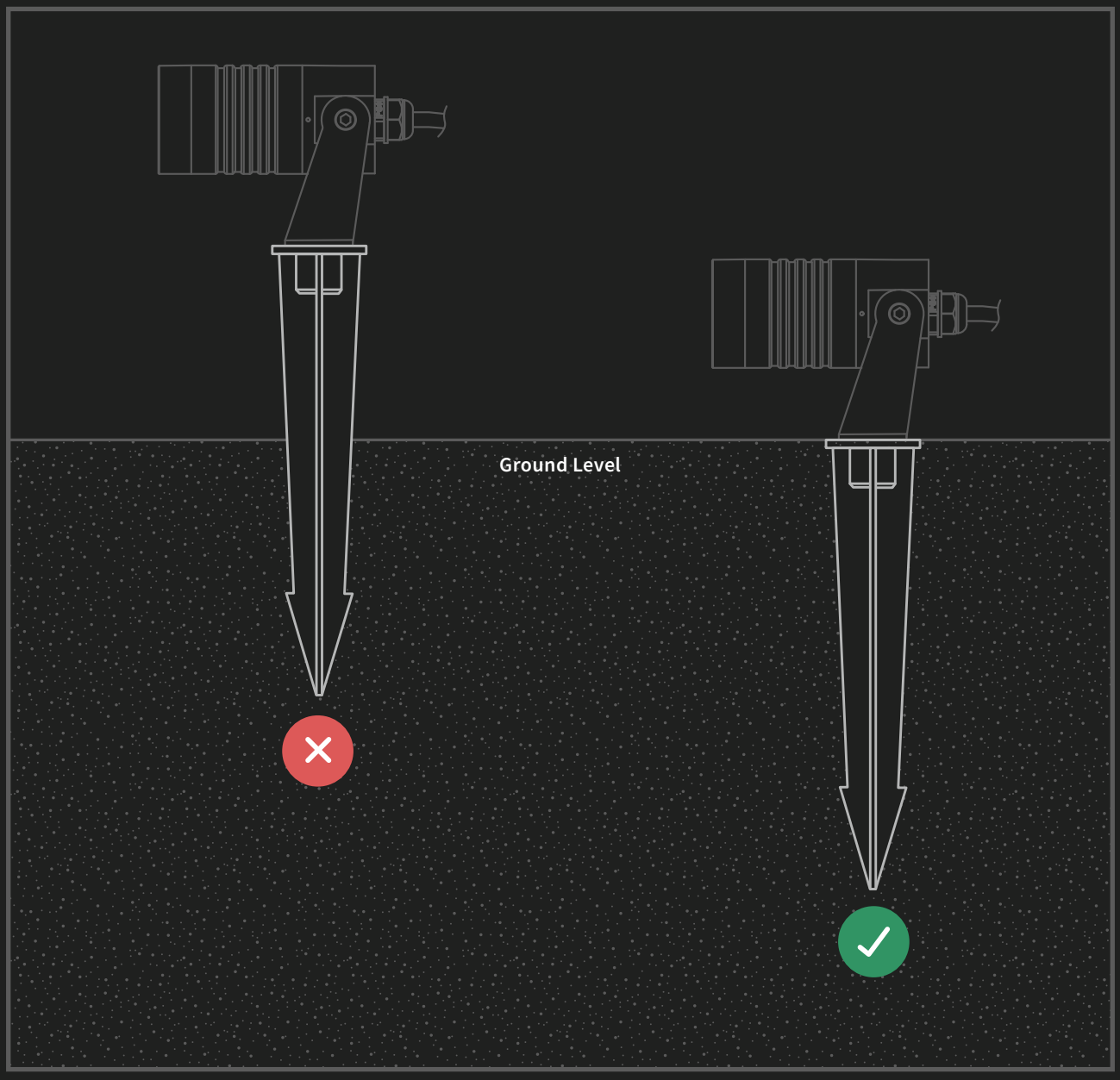
NOTE

If Opting for Automation from Keus

1 Nos. of Smart Relay Din 6, can handle 6 200w loops / 6 contactors. Install a contactor for loads larger than 200w (pumps etc).

INSTALLATION OF LANDSCAPE SPOT LIGHTS

Please follow fixture placement as per lighting design.



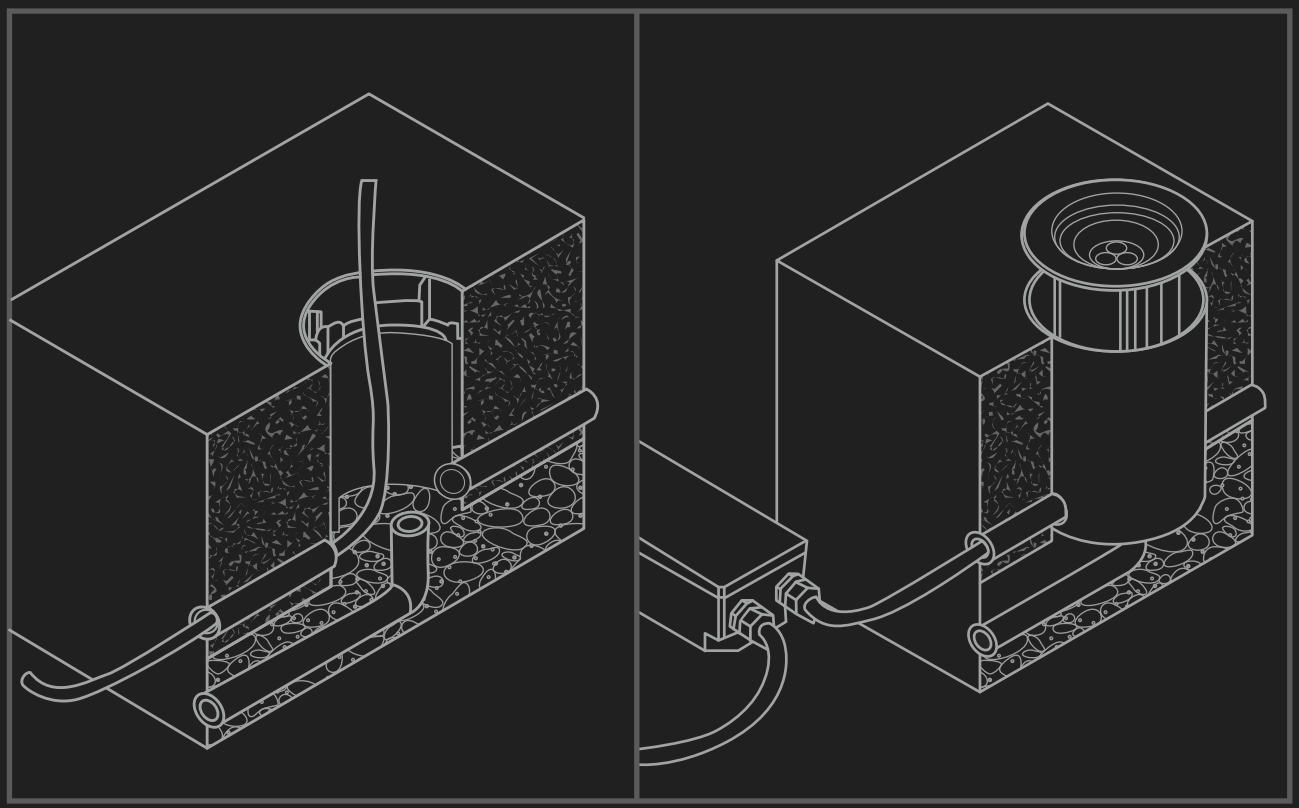
INSTALLATION OF RECESSED INGROUND LIGHTS

When planning the mounting sleeve, it is important to include a proper drainage system to prevent water accumulation issues.





Mounting sleeve

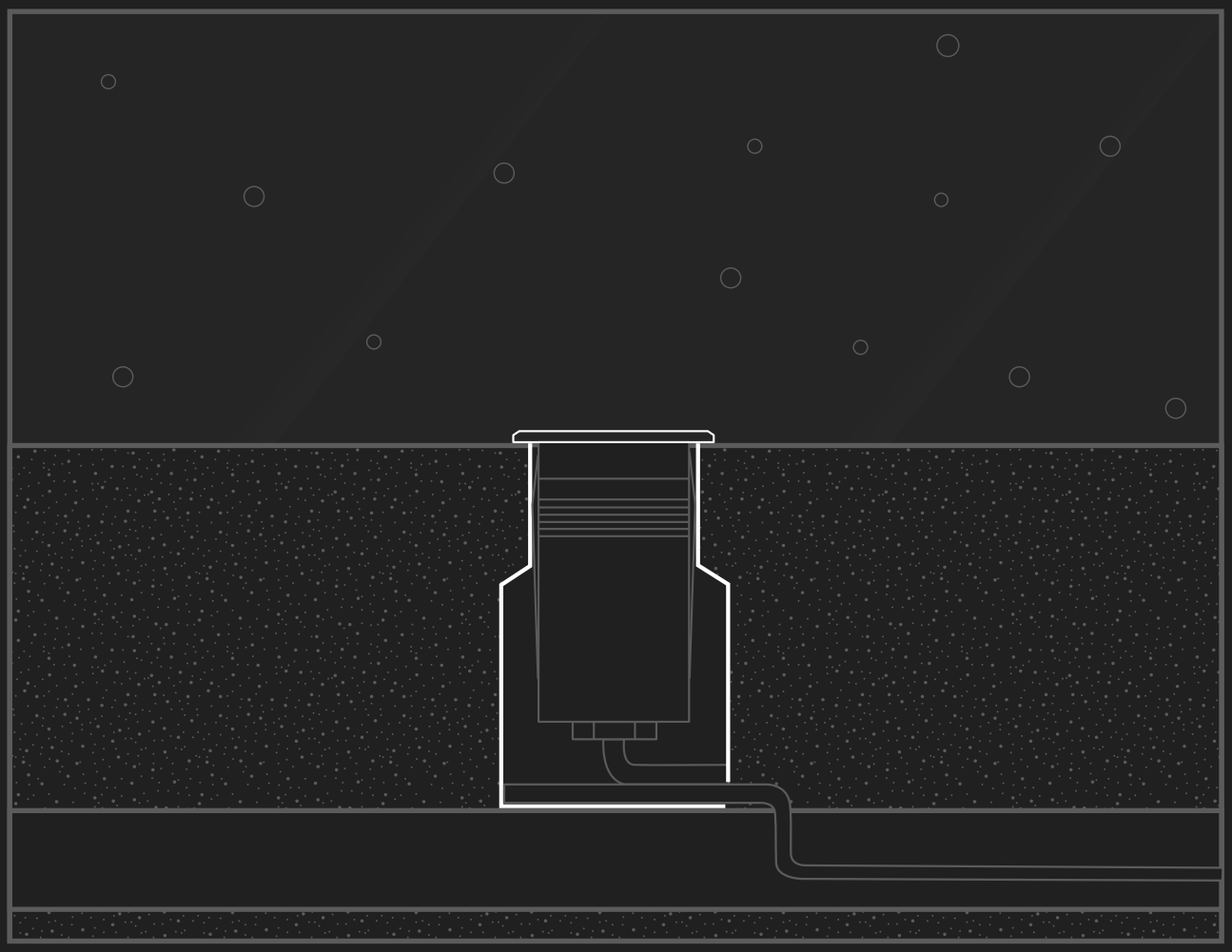


WATCH OUT

The space for the connector to fit inside the mounting sleeve needs to be planned and done by the client's flooring contractor.

INSTALLATION OF SUBMERSIBLE RECCESSED LIGHTS

Drain and then light fixture in the water body, at the desired location. Ensure the fixture is stable using provided mounting sleeves/fasteners.



WATCH OUT

Route and secure cables appropriately to avoid tangling.

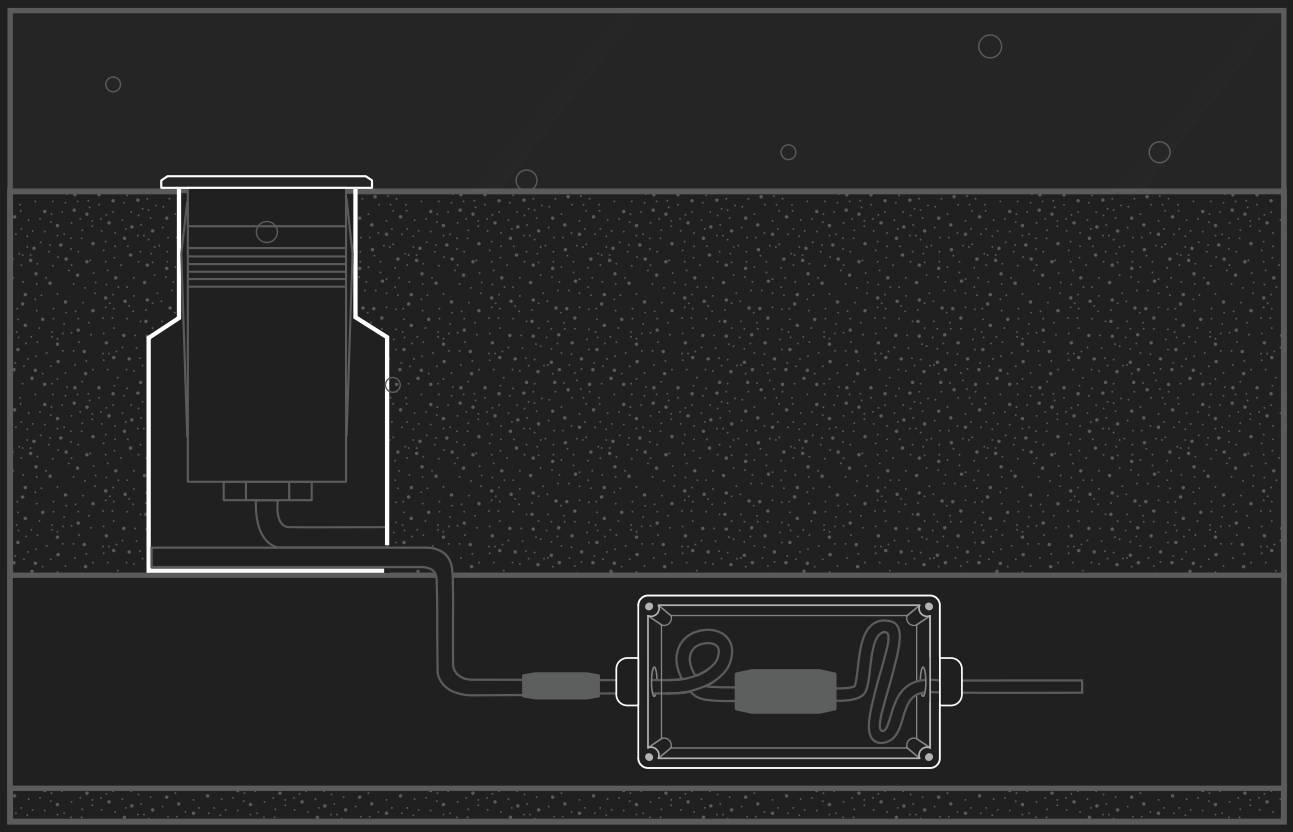
Ensure all connections are waterproofed.

Apply underwater sealant around cable connections and fixture openings to prevent water ingress.

INSTALLATION OF SUBMERSIBLE RECCESSED LIGHTS

Ensure adequate space is allocated for excess cable length and waterproof connectors during installation of submersible lights.

While routing the cables, plan in advance for IP-rated junction boxes or provide additional conduiting to securely house cable loops and waterproof joints. This is essential to maintain ingress protection and ease of maintenance.



WATCH OUT

Waterproof, with rubber-sheathed or double-insulated cable. Routed through conduit (PVC or brass).

Cable joints must be waterproof using resin-filled junction boxes or IP68-rated connectors.

Ensure fixtures are removable for bulb replacement or maintenance. Keep cable length inside niche to allow pulling out the fixture.

Use temporary covers to prevent debris entry during construction. Sleeve must include drain holes to prevent water buildup behind the light.

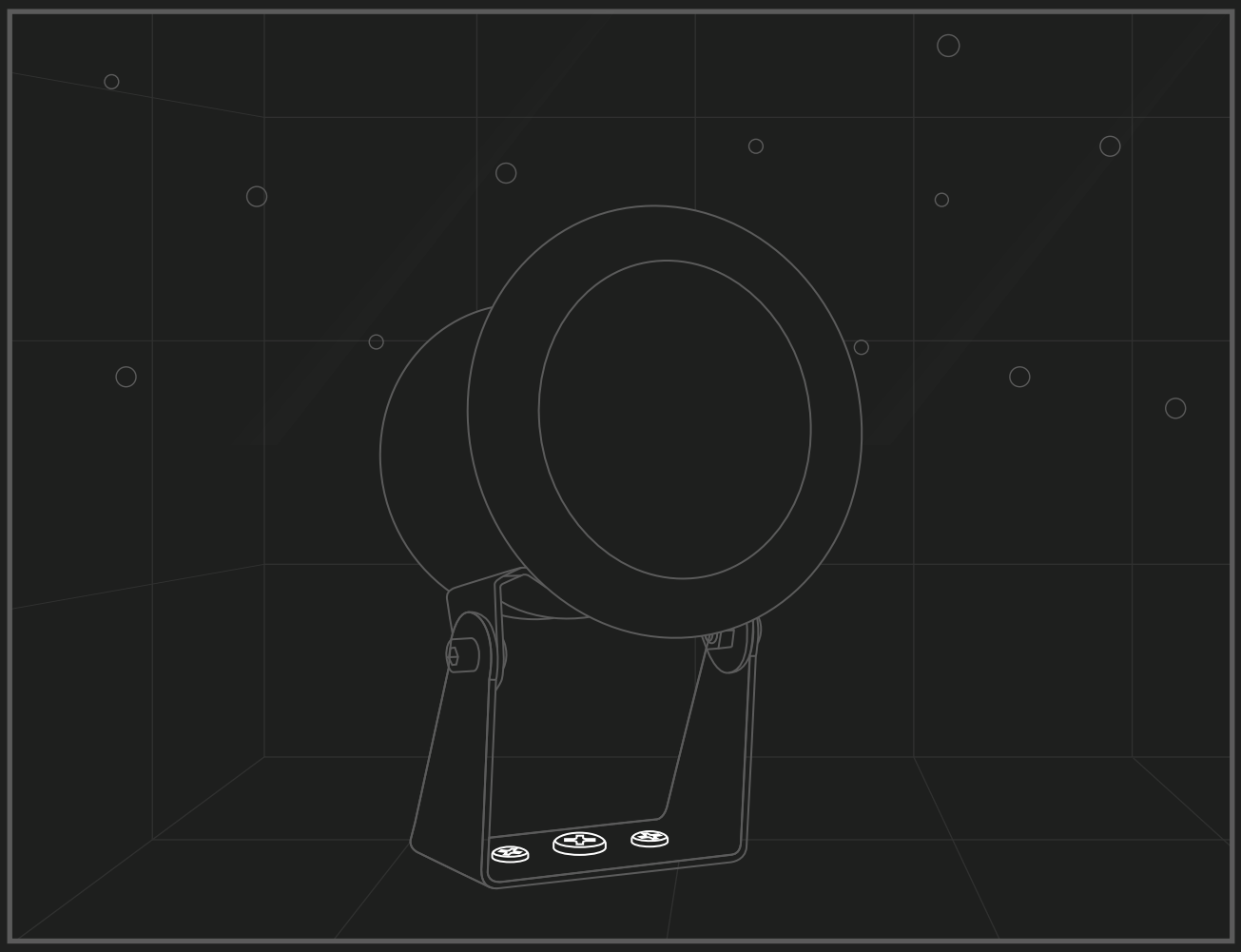
Mount the sleeve flush with the finished pool or fountain surface.

Secure sleeve firmly before concrete pouring to avoid shifting.

A mounting sleeve (also called a niche or housing) is a critical component for installing underwater lights—especially for recessed fixtures in pools, fountains, or other water bodies.

INSTALLATION OF SUBMERSIBLE SURFACE LIGHTS

Ensuring all fixtures, junctions, and cable terminations are IP68-rated or higher for full water submersion.



BEST PRACTISES

Run waterproof conduit (25–32mm dia.) to the back of the sleeve.

Ensure the conduit is sealed where it enters the sleeve (IP68-rated).

Pull extra cable into the sleeve to allow fixture removal for maintenance.

WATCH OUT

Fixing & Sealing

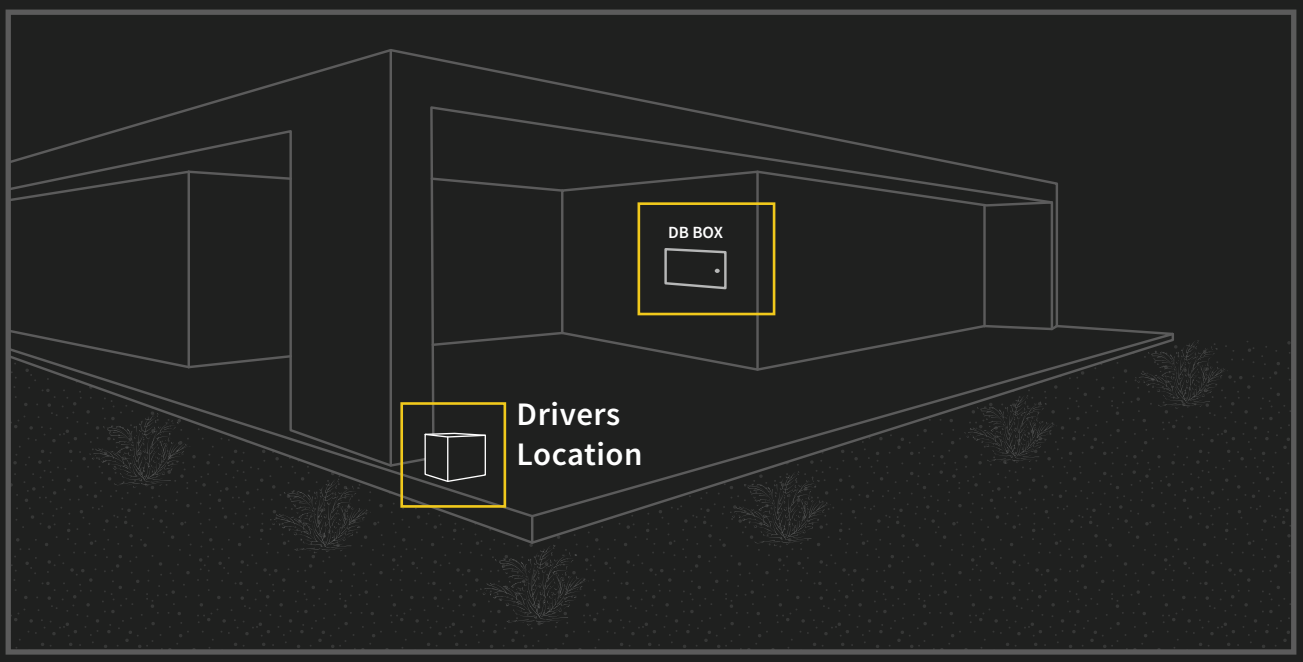
Use rubber gaskets and SS screws for mounting.

Seal all penetrations with marine-grade silicone or epoxy putty.

DRIVER LOCATION

Driver location for IP rated Lights to be planned in dry and accessible areas.



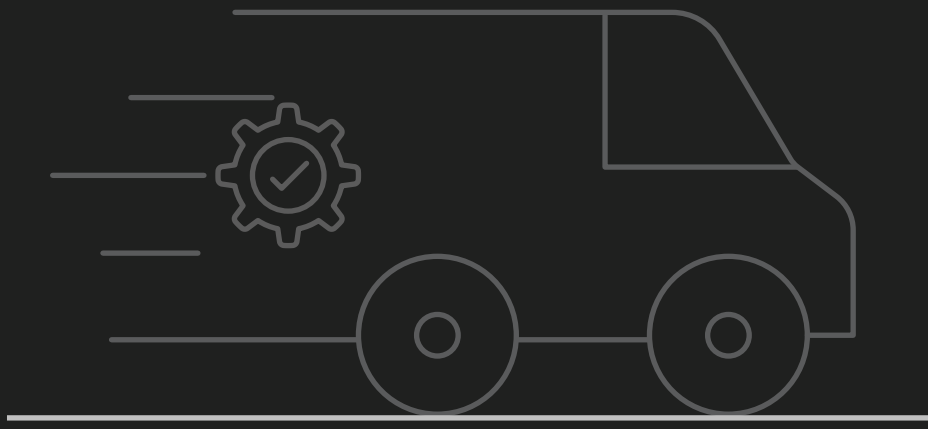


WATCH OUT

Placed outside the water body in a ventilated, waterproof enclosure.
Must be properly rated for load and voltage drop over distance.

NOTE

Mount in niches built into pool walls or securely on the floor of water features.
Avoid installation in areas with water turbulence (e.g., near water inlets or jets).



Delivery & Installation

DELIVERY

Delivery of all lighting products will be initiated after receiving the payment. Quality check and dispatch processes take T+3/4 working days usually post payment receipt.

Client must ensure that a responsible client representative is available at site, who can receive the material and acknowledge the same.

Client should ensure that the site has a controlled and secure space to receive and store the lights.

All the lights in a client order will be delivered at one time and deliveries cannot be made in parts.

Once material is despatched to site the same cannot be taken back.

All sample or reference material if any, sent to site as per client request, would be automatically adjusted from overall order.

! NOTE

In case material has to be delivered in multiple instalments as per client request, then each delivery will be charged at Rs. 1500/-

INSTALLATION SCOPE AND PROCESS

Strips and Track Lights will be installed by Ardeo operations team. Downlights will be installed by Client Site team.

Installation will be scheduled on T+5 days basis (T= Confirmation on site readiness & settlement of dues).

CHANGES

Any change in the lighting drawing / site condition change, that can affect the order variables (colour, quantity, positioning etc), has to be informed promptly to Ardeo Operations Team.

This ensures a smooth delivery, payment and installation process.

SITE SUPPORT

Ladders/scaffolding to be provided by the client.

Client site contractors - electrician, false ceiling team, carpenter; should be available on site during installation.



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