NEXO LIGHTING

AIR v.1

Multi Track System

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Installation Guide for Air Multi Track / Single-slot, Double-slot, and Triple-slot Linear Diffusers

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LIGHTING

NEXO has integrated lighting with architecture to design high-quality and uniquely styled products. All products are tested under resistant and standard conditions to ensure longevity without special maintenance. A 5-year warranty is provided under the terms specified in the warranty certificate.

Table of Contents

Warnings


Installation and use must be performed only by a qualified technician.


Power must be disconnected before installation. Follow international and safety standards.


All products include a -5year warranty covering component and light quality.


The manufacturer is not responsible for damage caused by improper installation or usage.


Only the manufacturer, their representatives, or certified personnel may replace or modify the light source.


A separate electrical panel with full protection systems must be used for power supply, especially in areas with heavy motor loads.


Avoid compressing or striking the product during transport and storage.


During construction work like welding, lights must be off or stabilized to avoid damaging the driver or electrical components.


Do not touch the LED module directly or strike it.


The fixture must only be powered through its provided driver; using a different driver or direct power connection may cause damage.


No need for drilling, cutting, or modifying the electrical system.


The low-voltage lighting system does not require a grounding connection to the driver.


For more information, contact NEXO after-sales service.

System Description


The Air Multi Track System combines ventilation linear diffusers with lighting in one unit.


The system supports single, double, and triple-slot linear diffusers with no length limitations. In double, and triple-slot diffusers, slots can be used for either ventilation or lighting. In single-slot diffuser, part of the profile is used for ventilation, and part for lighting.


Air direction is adjustable using the air guide component.


The calculations, based on the system's airflow technical specifications table, should be performed by the project's mechanical and MEP engineers.


The System manufacturing calculations are performed based on the technical drawings, the combination of air outlets and light sources, and the precise dimensions.


The system must be installed before the installation of the false ceiling and simultaneously with the installation of the HVAC system.


Use of elastomeric insulation is recommended.


What is Elastomeric Insulation?
A flexible, moisture-resistant material made from synthetic rubber (e.g., nitrile butadiene), used for thermal and sound insulation across various industries.

Airflow Specifications

45 db noise			35 db noise			25 db noise			Single slot linear track integrated diffuser NMTR 100 SIN ALI 48v (1m length of ventilation)
Range of air distribution at a flow velocity of 2 m/s	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	Range of air distribution at a flow velocity of 2 m/s	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	Range of air distribution at a flow velocity of 2 m/s	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	
2.6	22	283	2.3	10	221	1.7	4	168	Without air deflector
2.1	105	257	1.37	50	211	1.1	18	144	Using air deflector (45° air flow angle)

45 db noise			35 db noise			25 db noise			Double slot linear track integrated diffuser NMTR 100 DOU ALI 48v (1m length of ventilation on both slots)
Range of air distribution at a flow velocity of 2 m/s (m)	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	Range of air distribution at a flow velocity of 2 m/s (m)	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	Range of air distribution at a flow velocity of 2 m/s (m)	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	
2.8	19	442	2.5	8	312	1.8	3	224	Without air deflector
2.1	75	322	1.6	38	247	1.3	17	201	Using air deflector (45° air flow angle)

45 db noise			35 db noise			25 db noise			Triple slot linear track integrated diffuser NMTR 100 TRI ALI 48v (1m length of ventilation on all slots)
Range of air distribution at a flow velocity of 2 m/s (m)	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	Range of air distribution at a flow velocity of 2 m/s (m)	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	Range of air distribution at a flow velocity of 2 m/s (m)	Pressure drop measured (Pa)	The volume of air passing through per hour (m³/h)	
3.2	19	703	2.9	8	517	2.4	24	263	Without air deflector
2.7	60	445	1.4	30	274	1.1	8	225	Using air deflector (45° air flow angle)

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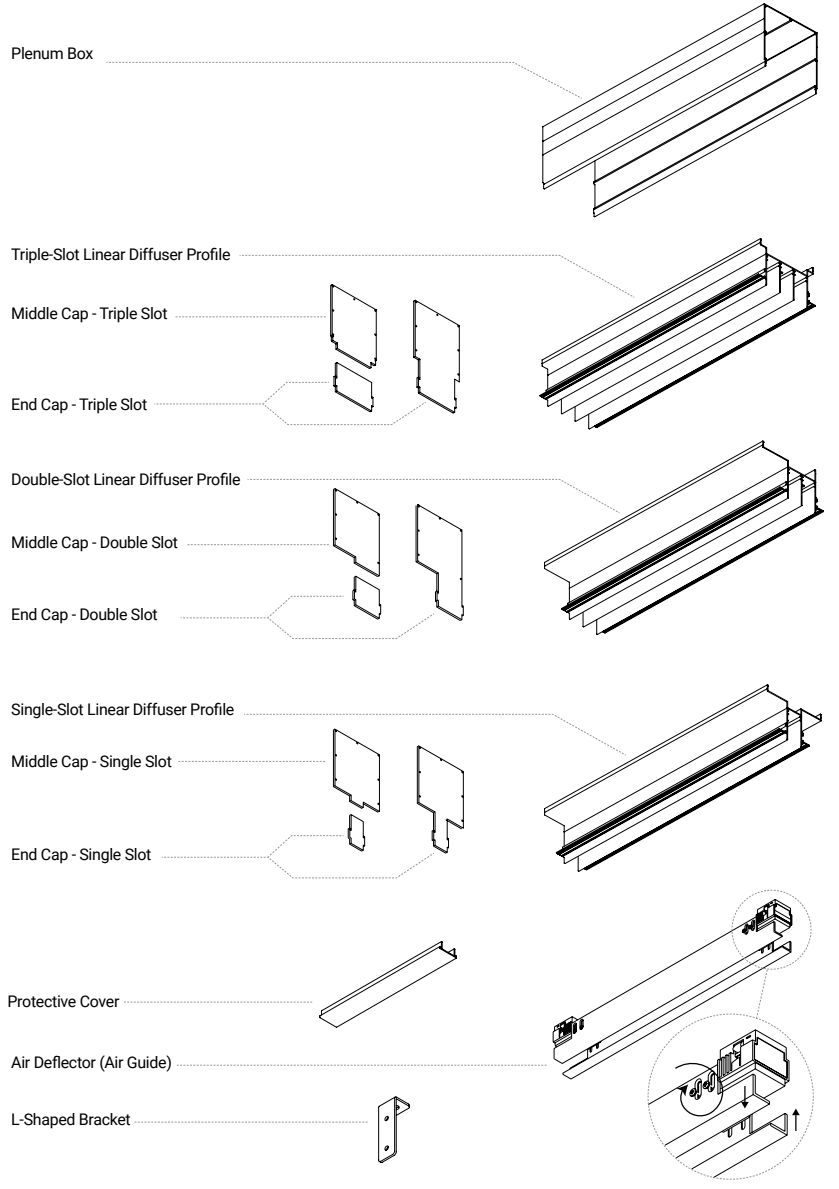
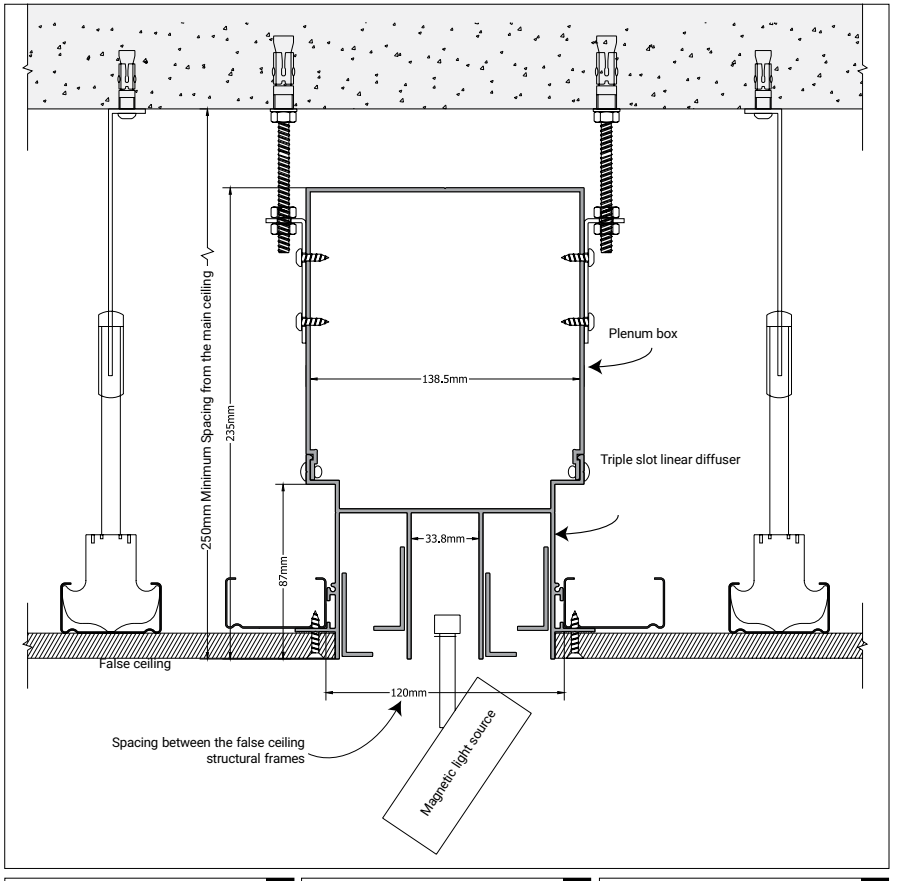
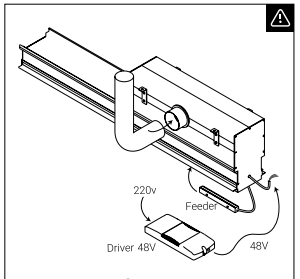
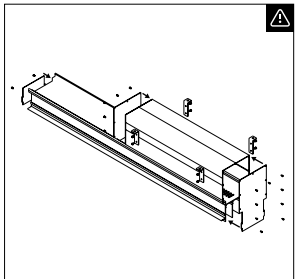


Installation – Triple-Slot Linear Profile

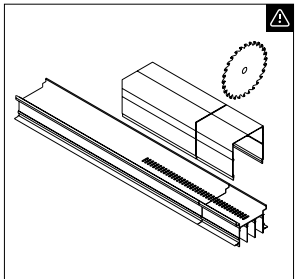




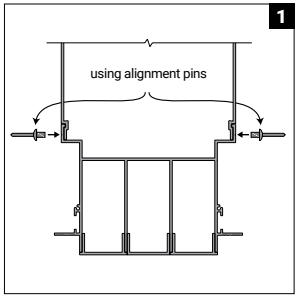
Connection of the air duct to the plenum and connection of the power supply cable to the profile.



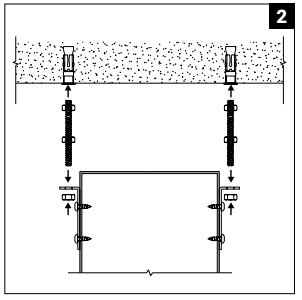
Installation of end and middle caps.



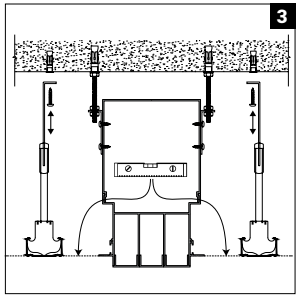
On-site cutting is only permitted with the manufacturer's coordination.



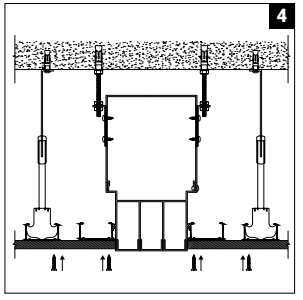
1. Assemble and fix profiles in place.



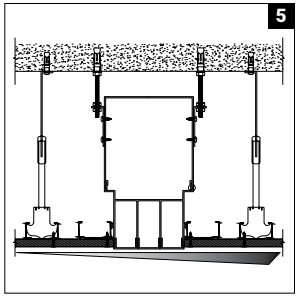
2. Connect Threaded Rods to L-shaped brackets and fix them to the ceiling.



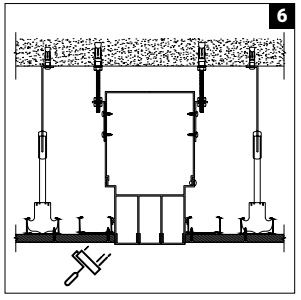
3. Install the false ceiling structure and level it with the profile edges.



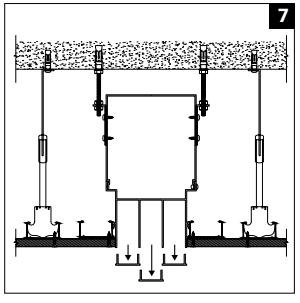
4. Install the false ceiling and fix in place.



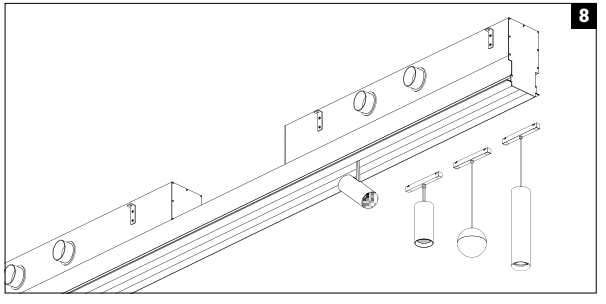
5. Use fiberglass tape for sealing.



6. Perform painting and final finishes.

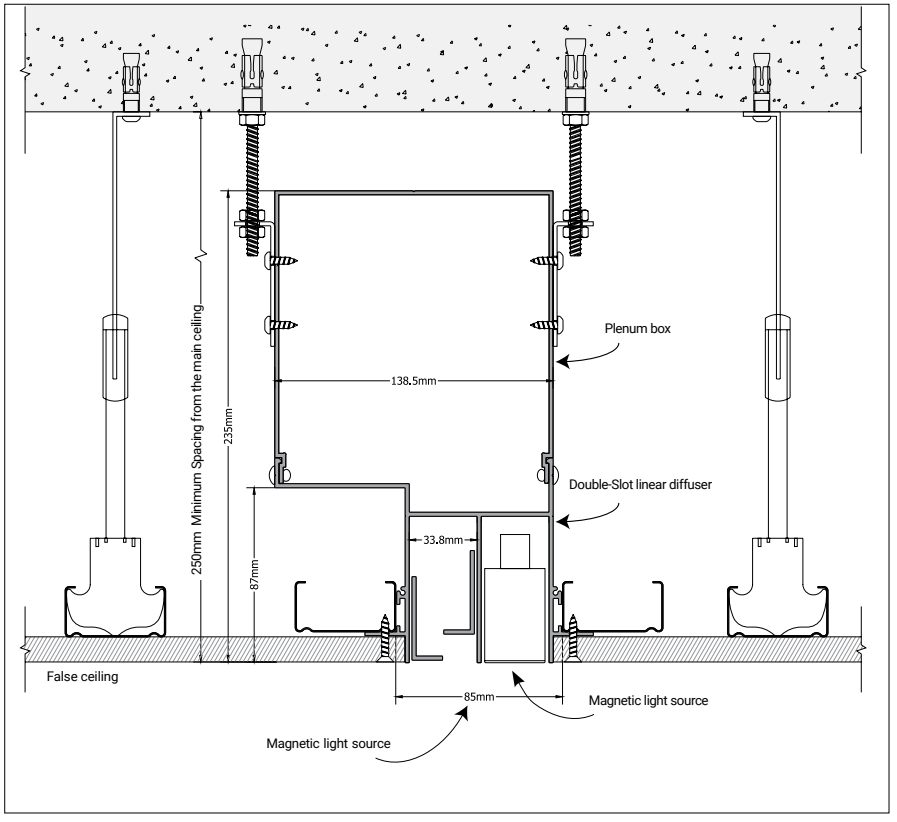


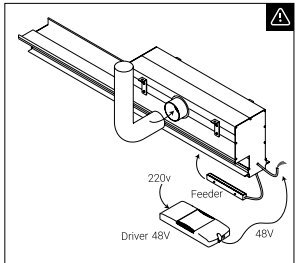
7. Remove protective covers



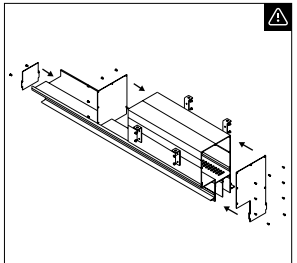
8. Finalize the installation.

Installation – Double-Slot Linear Profile

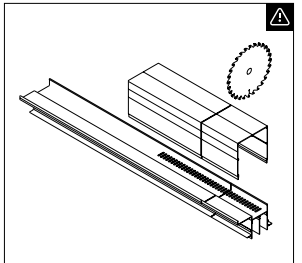




Connection of the air duct to the plenum and connection of the power supply cable to the profile.



Installation of end and middle caps.



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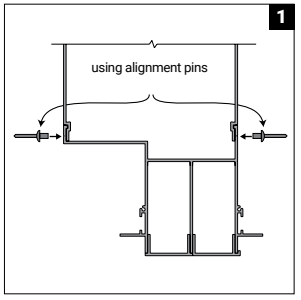

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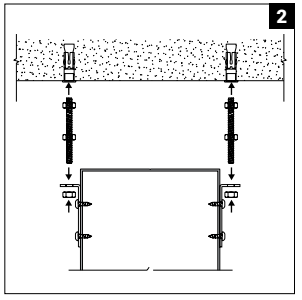
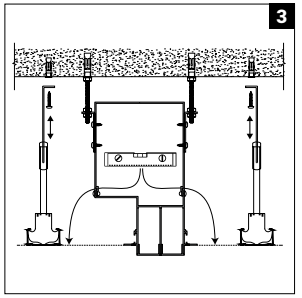
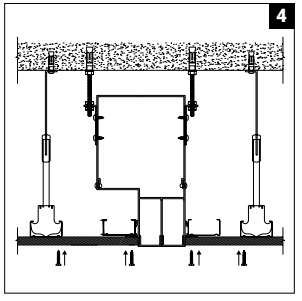


2. Connect Threaded Rods to L-shaped brackets and fix them to the ceiling.



3. Install the false ceiling structure and level it with the profile edges.



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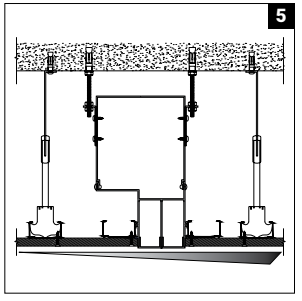
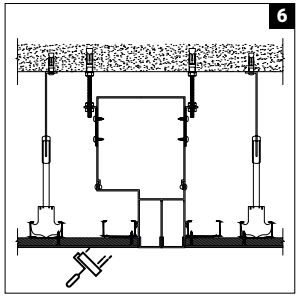
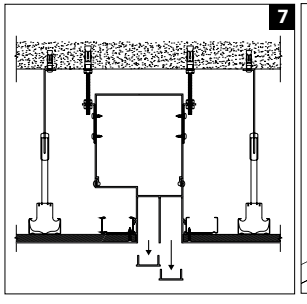


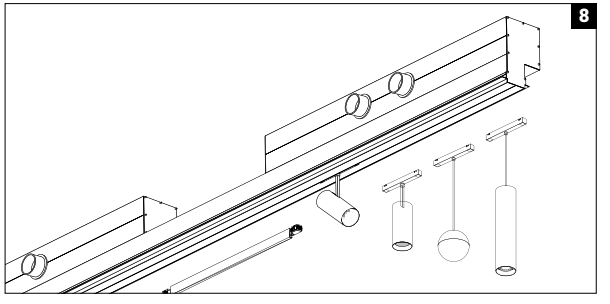
5. Use fiberglass tape for sealing.



6. Perform painting and final finishes.

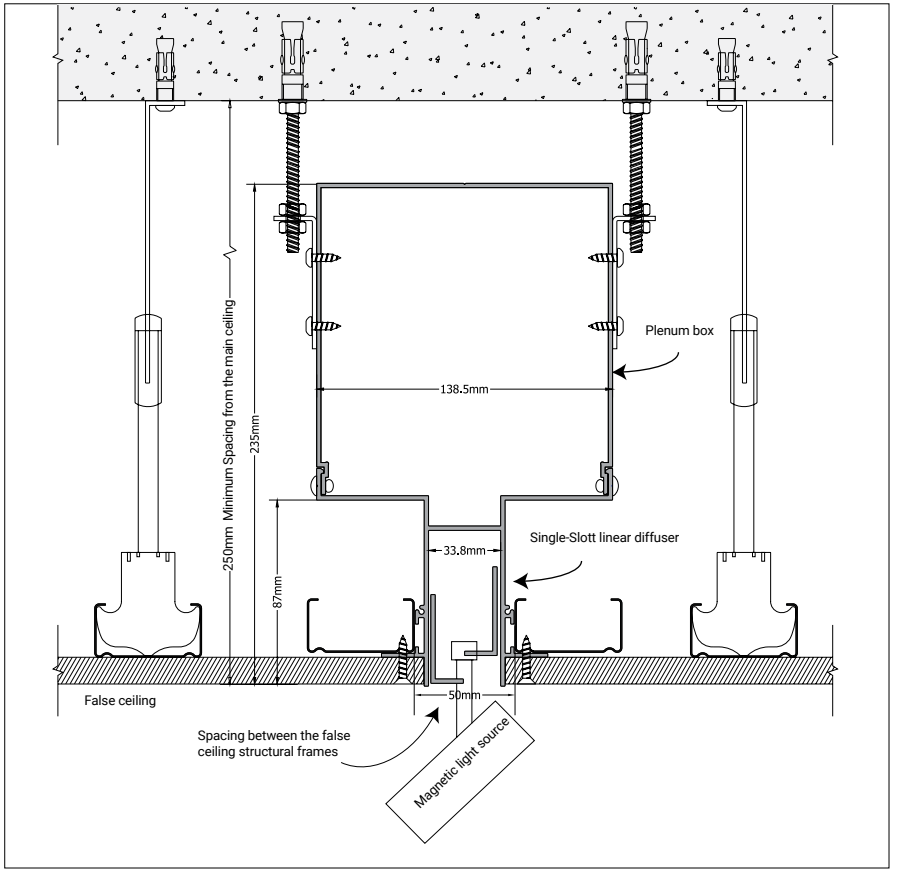


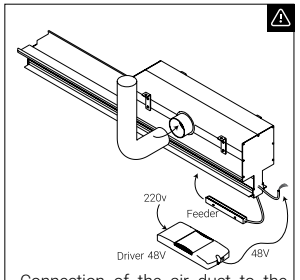
7. Remove protective covers



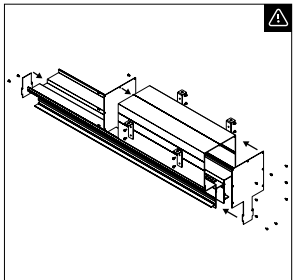
8. Finalize the installation.

Installation - Single-Slot Linear Profile

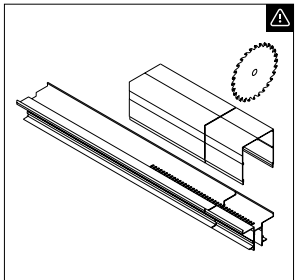




Connection of the air duct to the plenum and connection of the power supply cable to the profile.



Installation of end and middle caps.



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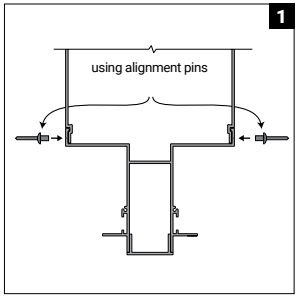

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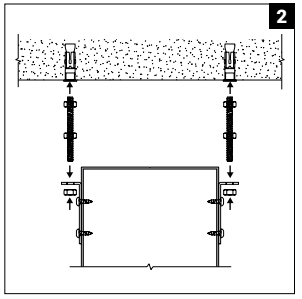
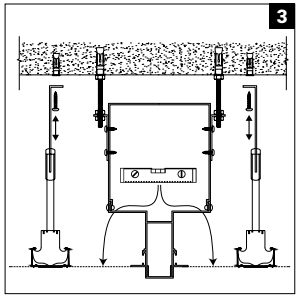
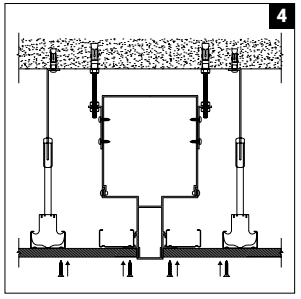


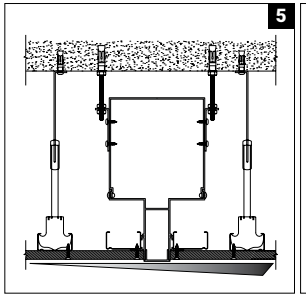
2. Connect Threaded Rods to L-shaped brackets and fix them to the ceiling.



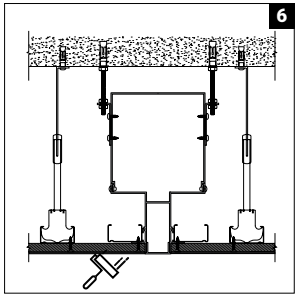
3. Install the false ceiling structure and level it with the profile edges.



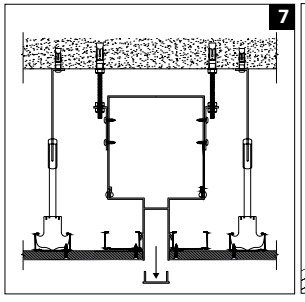
4. Install the false ceiling and fix in place.



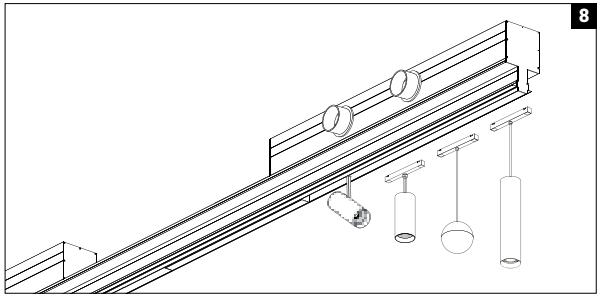
5. Use fiberglass tape for sealing.



6. Perform painting and final finishes.

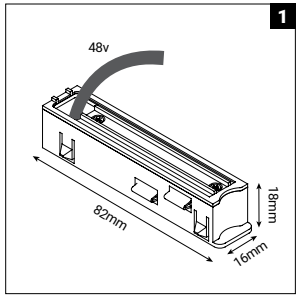


7. Remove protective covers

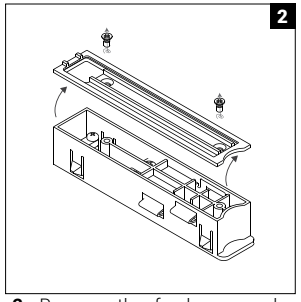


8. Finalize the installation.

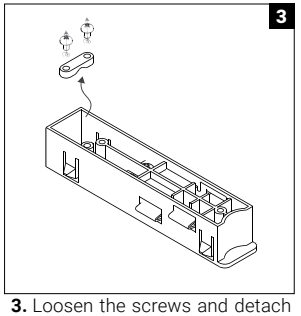
Installation of System Profile Feeder



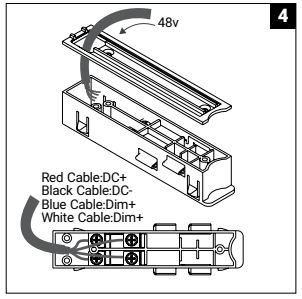
1. 48V power input



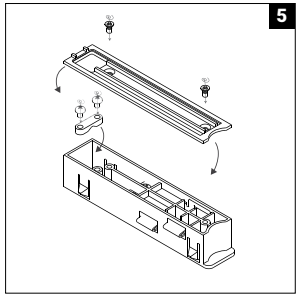
2. Remove the feeder cover by loosening the screws.



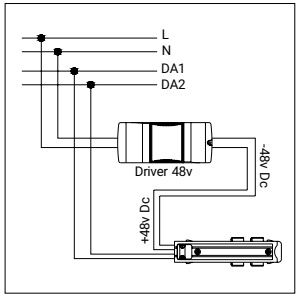
3. Loosen the screws and detach the cable clamp from inside the feeder.



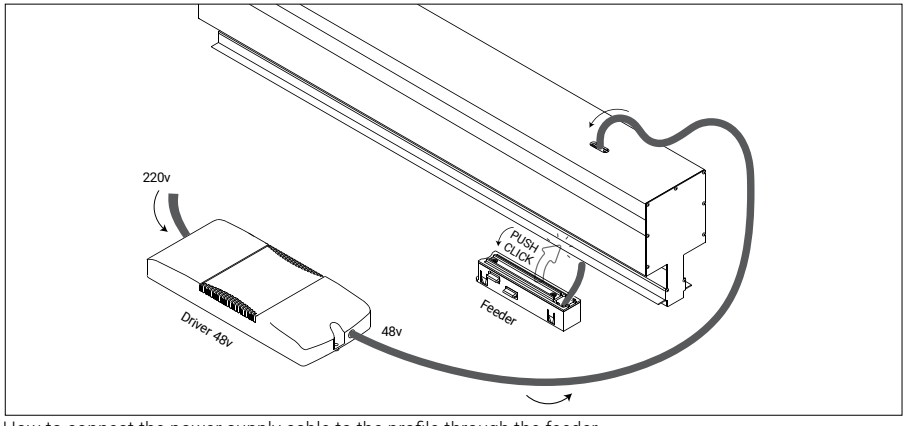
4. Connect the driver's output cable to the feeder terminal.



5. Reinstall the cover and the cable clamp in their original position.



Driver input and output wiring diagram



How to connect the power supply cable to the profile through the feeder

Notes

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