



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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With over 50 years of experience in the lighting industry, Nooraneh 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.

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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 Nooraneh 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.

Air Multi track (Large punch) Unified Selection Table

Noise Level (NC)	Static Pressure Loss ΔP_s (Pa)	3-Slot Throw $T_{0.75}$ (m)	3-Slot Airflow (CFM/LF)	2-Slot Throw $T_{0.75}$ (m)	2-Slot Airflow (CFM/LF)	1-Slot Throw $T_{0.75}$ (m)	1-Slot Airflow (CFM/LF)	Face Velocity (FPM)
21	7	2.2	126	2.8	84	3.1	42	450
22	10	2.4	141	3.1	94	3.3	47	500
23	12	2.6	155	3.4	103	3.5	52	550
24	15	2.8	169	3.8	113	3.9	56	600
25	18	3	183	4.1	122	4.2	61	650
26	21	3.2	197	4.4	131	4.4	66	700
26	24	3.4	211	4.8	141	4.6	70	750
27	28	3.6	225	5.2	150	4.8	75	800
28	35	3.9	253	5.8	169	5	85	900
29	43	4.2	281	6.5	188	5.1	94	1000
31	62	4.6	338	7.9	225	5.2	113	1200
32	86	5	394	9.2	263	5.2	131	1400
33	112	5.4	450	10.6	300	5.2	150	1600

Basis: Face Velocity (FPM)

Selection guide (Engineering use):

Single slot Provides higher jet momentum and extended throw, suitable for narrow spaces and linear architectural layouts.

Double slot Balanced solution offering improved acoustic comfort, moderate throw and reduced system resistance.

Triple slot High airflow capacity with the lowest draft risk, soft air distribution and superior acoustic performance.

Air Multi track (Small punch) Unified Selection Table

Noise Level (NC)	Static Pressure Loss ΔP_s (Pa)	3-Slot Throw $T_{0.75}$ (m)	3-Slot Airflow (CFM/LF)	2-Slot Throw $T_{0.75}$ (m)	2-Slot Airflow (CFM/LF)	1-Slot Throw $T_{0.75}$ (m)	1-Slot Airflow (CFM/LF)	Face Velocity (FPM)
23	9	1.9	126	2.6	84	2.9	42	450
24	12	2	141	2.9	94	3.1	47	500
24	14	2.1	155	3.3	103	3.3	52	550
25	17	2.2	169	3.6	113	3.7	56	600
26	20	2.3	183	3.9	122	4	61	650
27	23	2.4	197	4.2	131	4.1	66	700
27	26	2.5	211	4.6	141	4.3	70	750
28	30	2.6	225	4.9	150	4.4	75	800
29	38	2.8	253	5.5	169	4.5	85	900
30	47	3	281	6.2	188	4.5	94	1000
32	68	3.4	338	7.5	225	4.6	113	1200
33	94	3.8	394	8.8	263	4.6	131	1400
34	125	4.2	450	10.1	300	4.6	150	1600

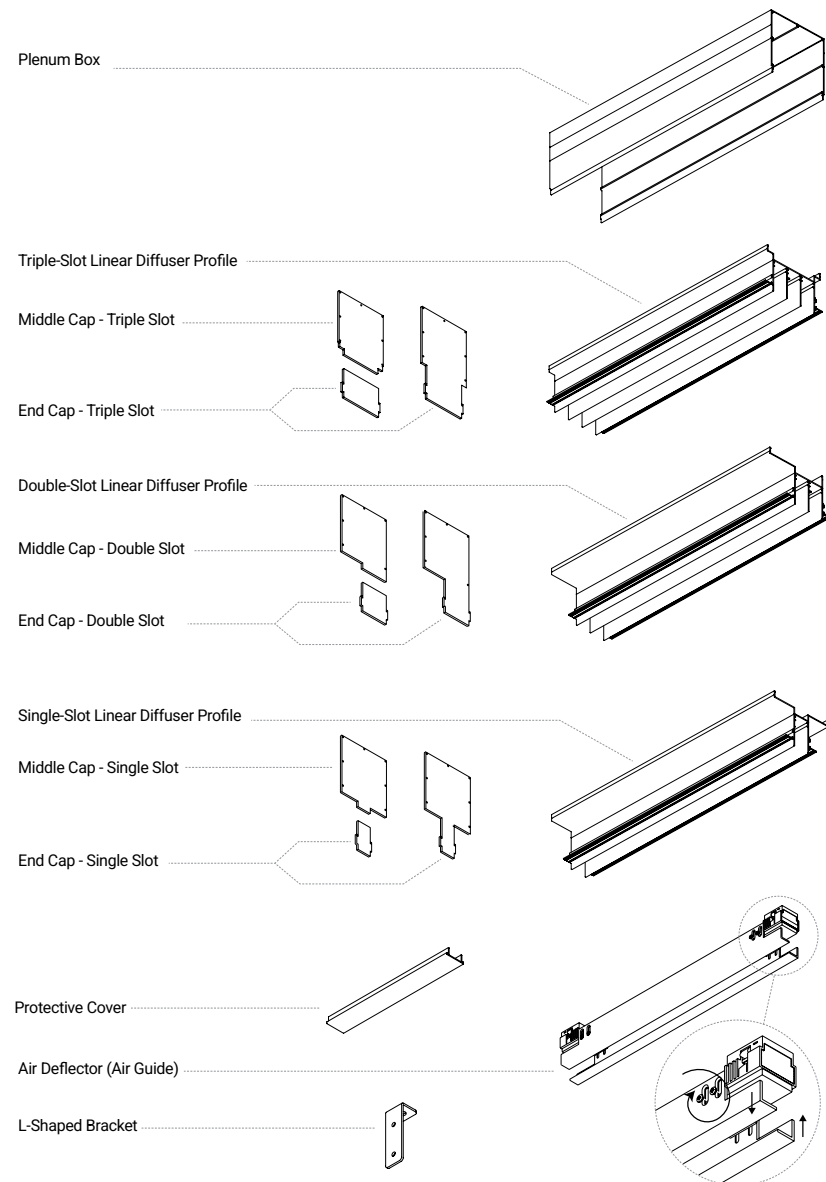
Basis: Face Velocity (FPM)

Selection guide (Engineering use):

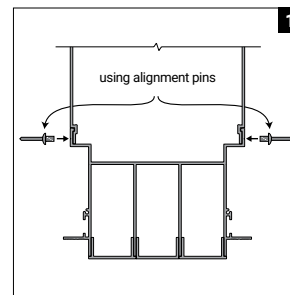
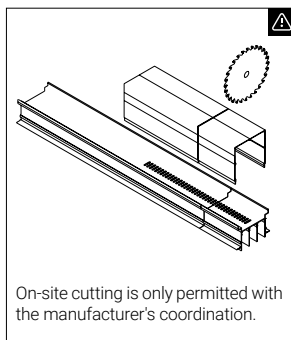
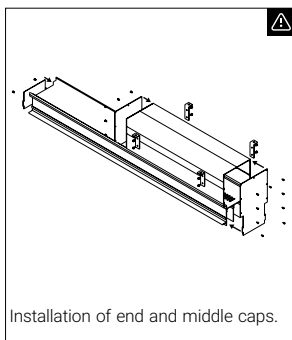
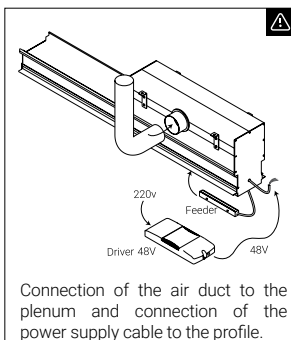
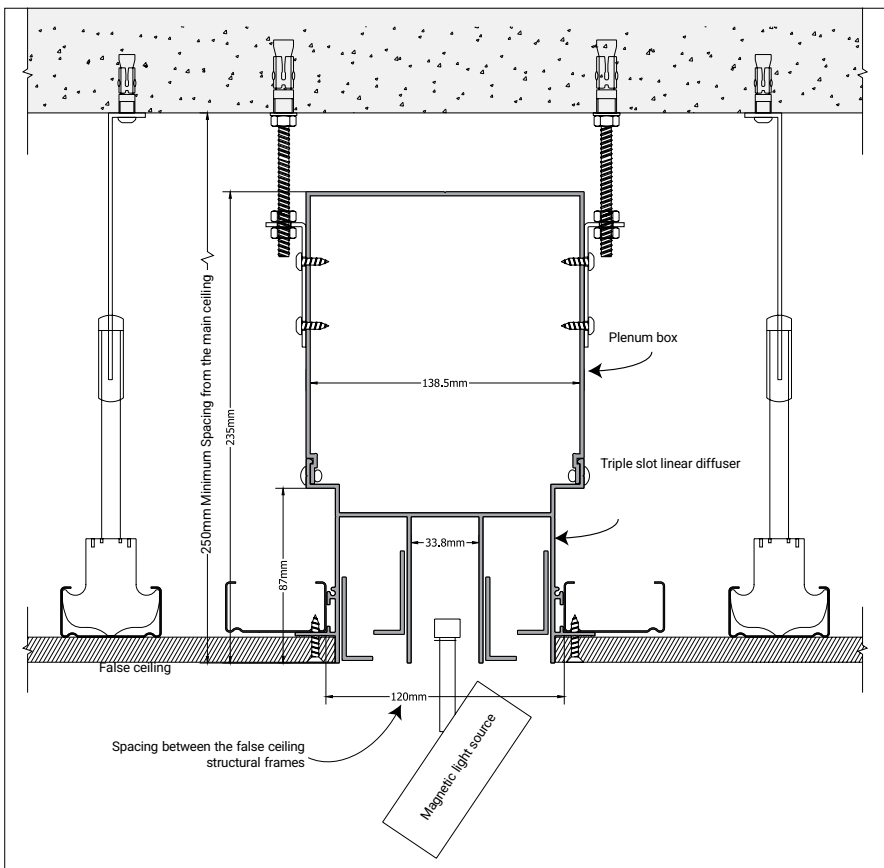
Single slot Higher jet momentum and longer throw, suitable for narrow spaces and linear layouts.

Double slot Balanced solution with improved acoustic comfort and moderate throw.

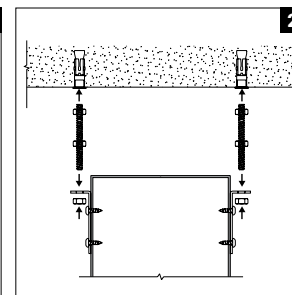
Triple slot High airflow capacity with the lowest draft risk and soft air distribution.



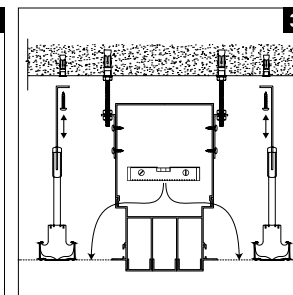
Installation – Triple-Slot Linear Profile



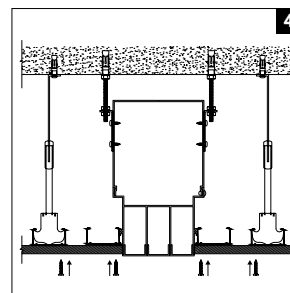
1. Assemble and fix profiles in place.



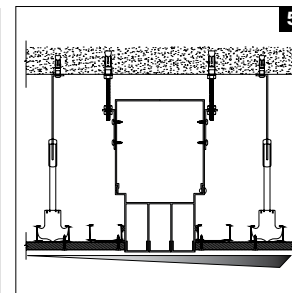
2. Connect Threaded Rods to L-shaped brackets and fix them to the ceiling.



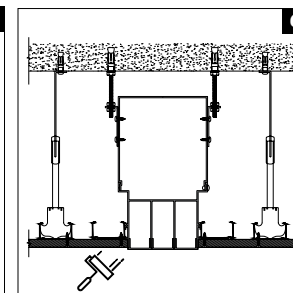
3. Install the false ceiling structure and level it with the profile edges.



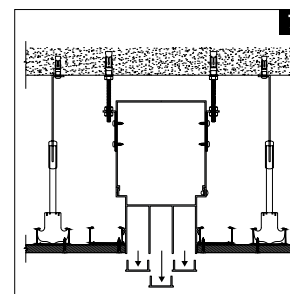
4. Install the false ceiling and fix in place.



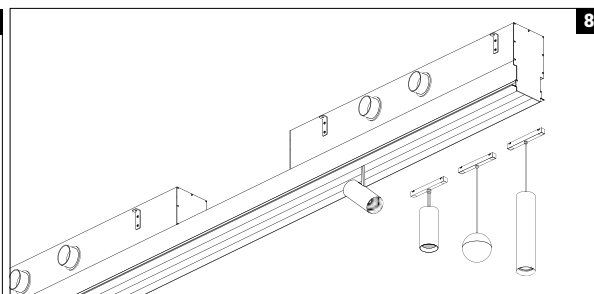
5. Use fiberglass tape for sealing.



6. Perform painting and final finishes.

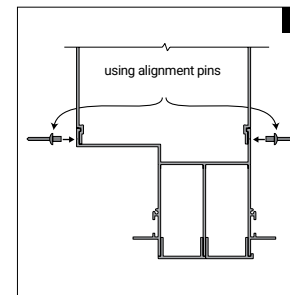
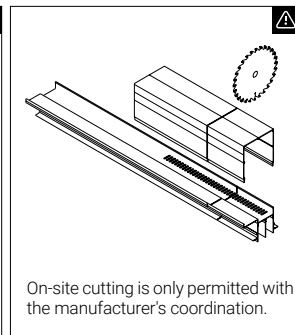
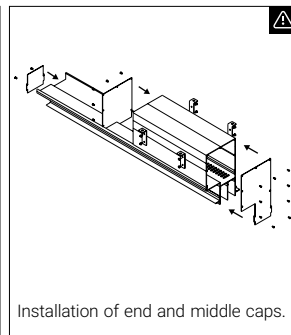
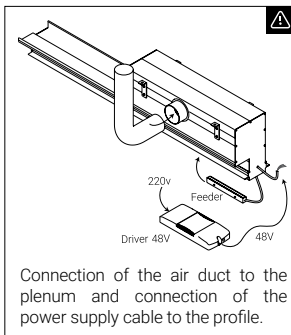
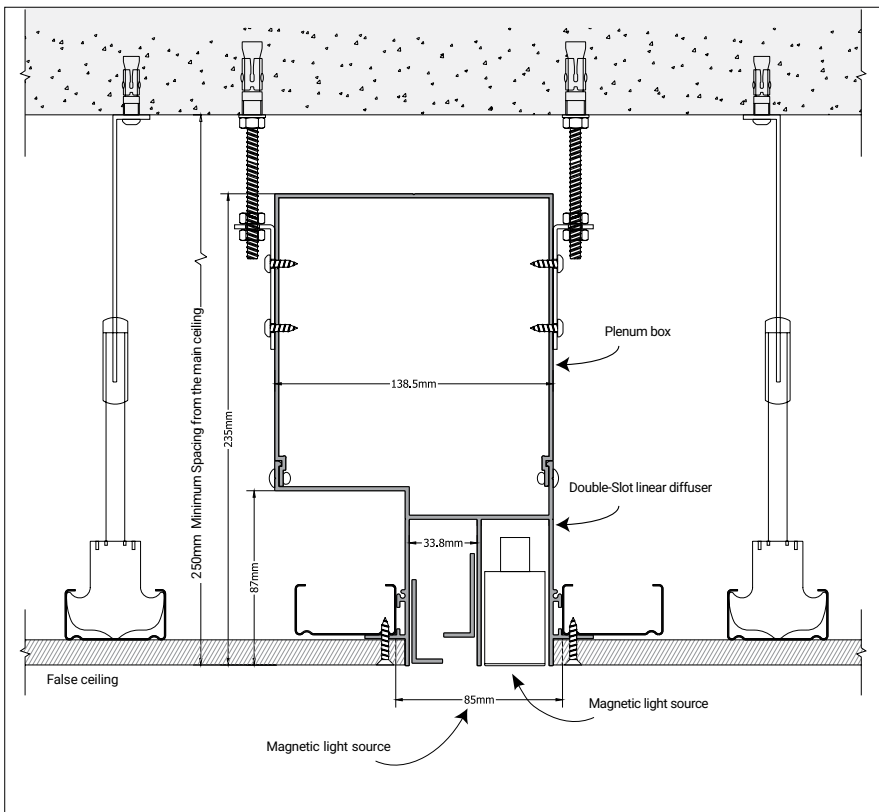


7. Remove protective covers

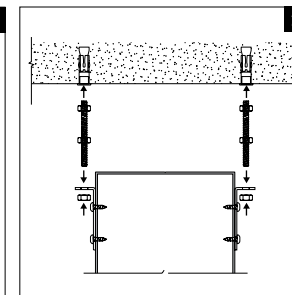


8. Finalize the installation.

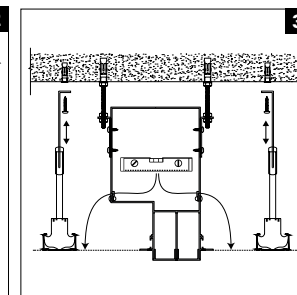
Installation – Double-Slot Linear Profile



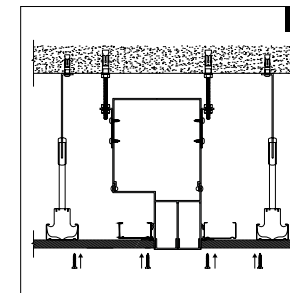
1. Assemble and fix profiles in place.



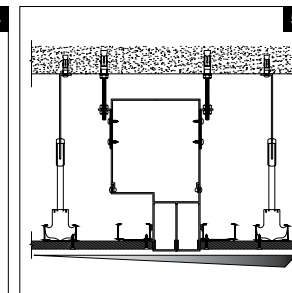
2. Connect Threaded Rods to L-shaped brackets and fix them to the ceiling.



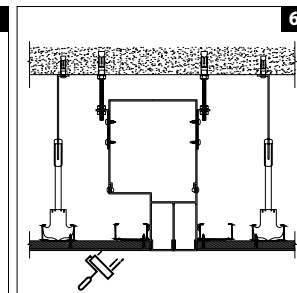
3. Install the false ceiling structure and level it with the profile edges.



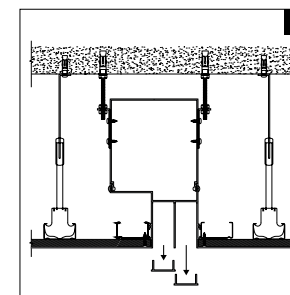
4. Install the false ceiling and fix in place.



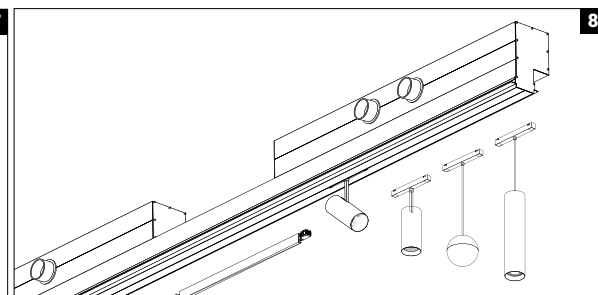
5. Use fiberglass tape for sealing.



6. Perform painting and final finishes.

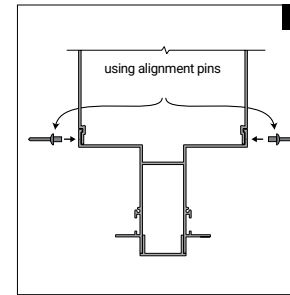
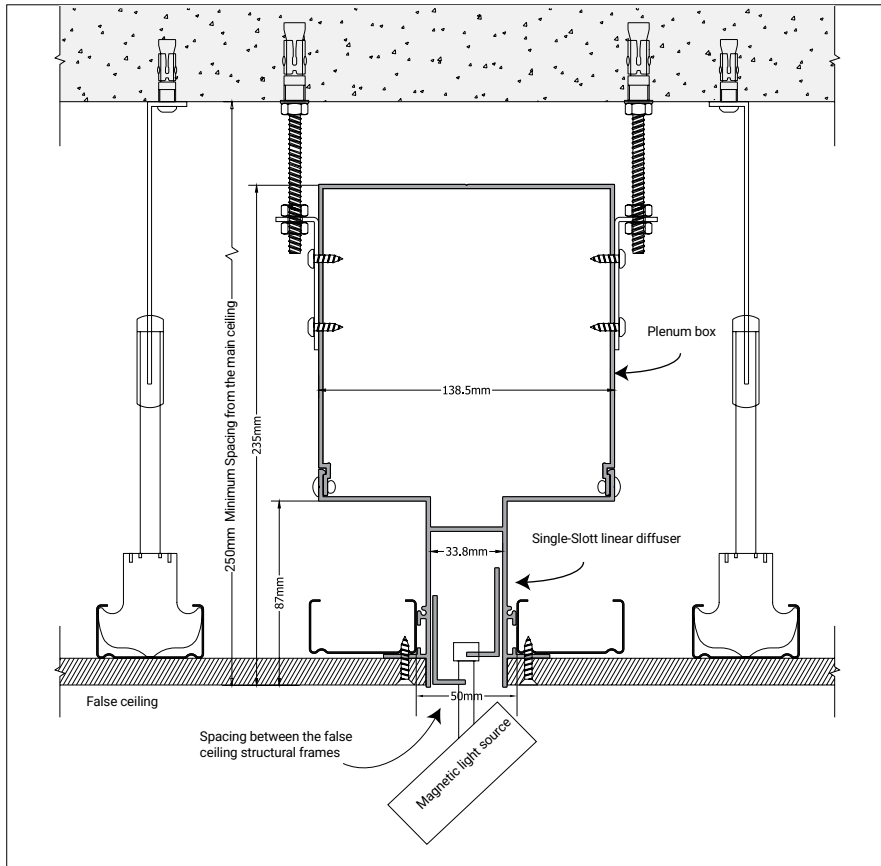


7. Remove protective covers

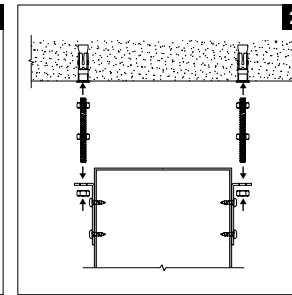


8. Finalize the installation.

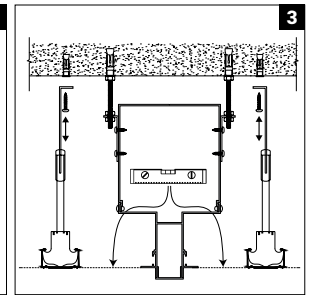
Installation - Single-Slot Linear Profile



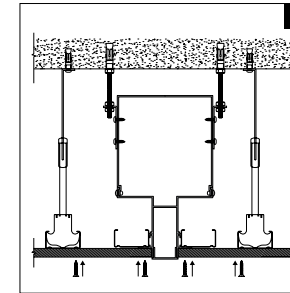
1. Assemble and fix profiles in place.



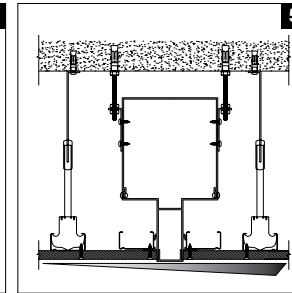
2. Connect Threaded Rods to L-shaped brackets and fix them to the ceiling.



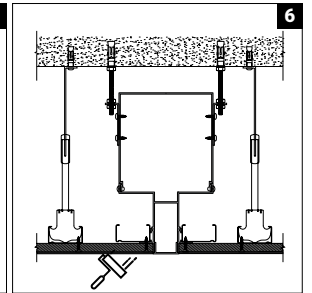
3. Install the false ceiling structure and level it with the profile edges.



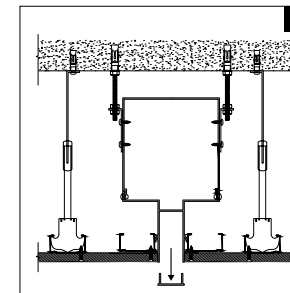
4. Install the false ceiling and fix in place.



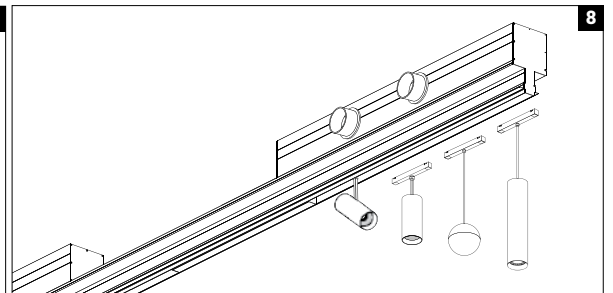
5. Use fiberglass tape for sealing.



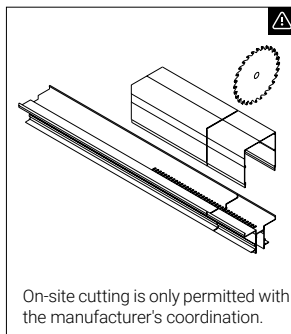
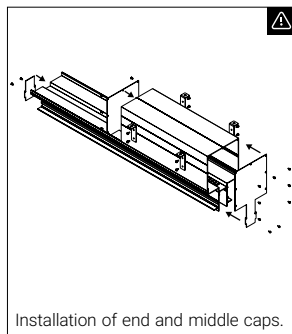
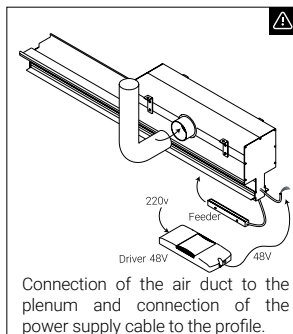
6. Perform painting and final finishes.



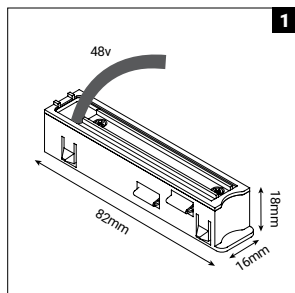
7. Remove protective covers



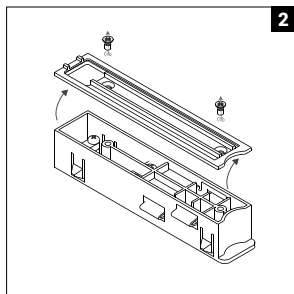
8. Finalize the installation.



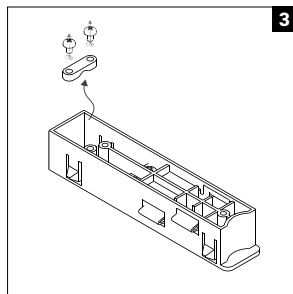
Installation of System Profile Feeder



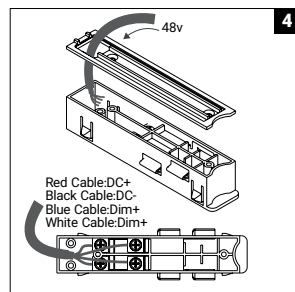
1. 48V power input



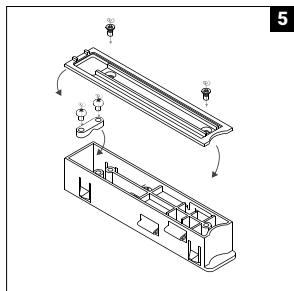
2. Remove the feeder cover by loosening the screws.



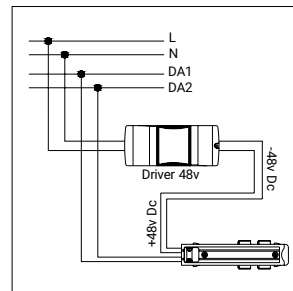
3. Loosen the screws and detach the cable clamp from inside the feeder.



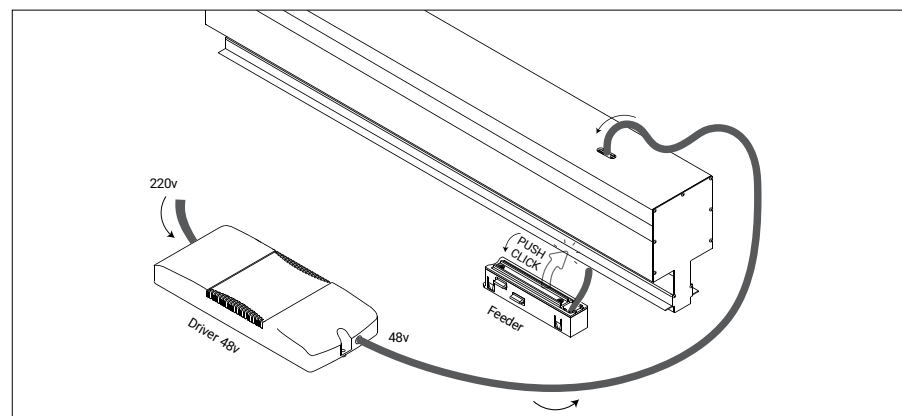
4. Connect the driver's output cable to the feeder terminal.



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



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