



Aviation-Grade Aluminum Alloy Light Trough for Pre-Installed Recessed Linear Ceiling Lighting with Uniform Soft Light

Our Product Introduction

Basic Information

- Place of Origin: SHENZHEN CHINA
- Brand Name: YSENLED
- Certification: CE ROHS LVD EMS
- Model Number: YS-BAPL003
- Minimum Order Quantity: 10
- Price: Negotiable
- Packaging Details: 10*120*15
- Delivery Time: 2DAYS
- Payment Terms: L/C,D/A,D/P,T/T,Western Union
- Supply Ability: 100,000 meters per week



Product Specification

- Highlight: Aviation-grade aluminum alloy Light Trough, Pre-installed recessed Linear Ceiling Profile, Uniform soft light Aluminum Alloy Trough



for more products please visit us on led-stripslights.com

Product Description

Pre-Buried Lamp Trough Aluminum Alloy Lamp Belt Slot Linear Lamp Ceiling Aluminum Profile

This pre-embedded aluminum alloy linear light groove is specifically designed for ceiling applications. Manufactured from high-strength aluminum alloy as a single piece, it is engineered for recessed linear lighting without main light fixtures. When pre-embedded in ceilings or walls and paired with LED light strips, it delivers strong linear aesthetics with uniform, soft illumination for ambient and basic lighting. Combining decorative appeal with practical functionality, it serves as a core component in modern residential and commercial linear lighting systems.

Indoor Use Scenarios



Product Specifications

| | |
|-------------------------|-------------------------------------------------------------|
| Material | Aviation-grade aluminum alloy |
| Surface Treatment | Frosted / Oxidized / White spray |
| Structure | Integrated light trough + cover plate / diffuser |
| Installation Method | Pre-installed recessed / Embedded |
| Compatible Light Strips | 24V low-voltage LED light strips, COB light strips |
| Common Specifications | Width 10mm/15mm/20mm/25mm, length can be customized and cut |
| Optional Light Covers | Transparent cover / Soft white cover / Black edge cover |
| Colors | Matte white, shimmering silver, classic black |

Scenario Shows



Front desk lobby



Aisle



Wall



Office Space

Key Features

- Pre-installed Design:** Embedded into ceiling before installation for clean, crisp lines with no exposed edges, creating seamless integration
- Aluminum Alloy Construction:** Excellent thermal conductivity extends LED strip lifespan, resistant to deformation, cracking, and yellowing
- Soft Glare-Free Lighting:** Equipped with diffuser for uniform, delicate light output without graininess or dark areas
- Customizable Sizing:** Various widths available with custom length cutting, adaptable for straight lines, U-shapes, and curves
- Secure Installation:** Stable structure integrates tightly with plasterboard/ceiling, preventing loosening and noise

Application Scenarios

Residential Applications: Living room ceiling without main light, U-shape ceiling, floating ceiling, bedroom, hallway, entryway linear ambient lighting, TV background wall, headboard background wall recessed linear lighting, study, dressing room, shoe cabinet top linear lighting

Commercial Applications: Shop, showroom, office recessed linear lighting projects

Installation Guidelines

Installation Steps

- Reserve grooves between ceiling joists according to design dimensions
- Fix aluminum profiles to reserved positions using screws or structural adhesive
- Insert LED strip and connect wiring, then cover with diffuser
- Fill surface with plaster for seamless integration with ceiling
- Test light uniformity after powering on; no dark areas or light leakage indicates proper installation

Maintenance

- Routine cleaning: Wipe surface with dry cloth to remove dust
- Avoid strong acid or alkali cleaners
- If uneven light spots appear, check for LED strip displacement or damaged LEDs
- If diffuser yellows over time, replace diffuser individually without replacing entire light trough

Important Precautions: Must be pre-installed before ceiling panels are installed as position adjustment is difficult afterward. Ensure light trough installation remains horizontal and straight to prevent skewing. Fix light strip securely at trough bottom to prevent displacement and

uneven lighting. Reserve sufficient power cord length to avoid poor contact. Avoid heavy pressure or knocking on aluminum trough to prevent deformation. When using low-voltage LED strips, avoid inferior drivers that may cause flickering or overheating.

Simple lines create sophisticated light and shadow; precision-crafted aluminum light troughs achieve quality lighting. This pre-embedded linear light trough, with its stable quality and minimalist design, provides a more comfortable and textured lighting environment for modern spaces, making every lighting element more refined and longer-lasting.



SHENZHEN YSENLED LIGHTING CO.,LTD



lyzylight@gmail.com



led-stripslights.com

2F, Building 3, Ruibang Industrial , No.8 Laocun Road, Tangtou, Shiyan, Bao'an District, Shenzhen,
Guangdong, China