Aluminum Pylon Signs

Section 1: (视频及照片） 另加 **1** 个产品视频 **+10-15** 张产品照片/产品场景照片	**Aluminum Channel Letters for Large-Scale Outdoor Signage** **Made Light · Built to Last** Aluminum Channel Letters are illuminated dimensional letters designed for commercial buildings, retail centers, hotels, campuses, industrial parks, stadiums, and other outdoor architectural signage projects. Compared with traditional stainless steel or galvanized steel letters, aluminum construction significantly reduces weight while improving corrosion resistance, coating performance, and long-term maintenance efficiency. DIKA SIGN manufactures custom aluminum channel letters for sign companies and design firms, helping them deliver lighter, longer-lasting, installation-ready signage for large-scale outdoor projects. ✓ Up to 65% lighter than stainless steel structures ✓ Designed for long-term outdoor durability ✓ Better coating adhesion and paint performance ✓ Optional UL-compliant electrical solutions ✓ Ideal for large building facade signage and architectural signage projects **Typical Applications** ✓ Shopping Centers ✓ Retail Stores ✓ Hotels & Hospitality ✓ Corporate Headquarters ✓ Industrial Parks ✓ Stadiums & Arenas ✓ Healthcare Facilities ✓ Educational Campuses ✓ Airports & Transportation Hubs

Key Advantages

图标+ **Up to 65% Lighter** Lower transportation, lifting, installation, and structural load requirements.	图标+ **Built for Outdoor Durability** Corrosion-resistant aluminum with fluorocarbon coating for long-term outdoor performance	图标+ **Better Coating Performance** Stronger coating adhesion helps reduce peeling, fading, and repainting risk.

Project Challenges & DIKA SIGN Solutions

How DIKA SIGN helps reduce risk in custom outdoor signage projects.

Product Challenge 01

Excessive Sign Weight

Heavy metal letters increase transportation, lifting, and installation pressure.

☒ Stainless steel or galvanized steel structures can be too heavy for large building signage.

☒ High structural load increases installation difficulty and lifting risk.

☒ Overseas shipping and handling become more costly for oversized letters.

☒ Large facade projects require more predictable weight contr



DIKA SIGN Solution

✓ All-aluminum construction for lightweight channel letter structures.

✓ Optimized return, back panel, and internal reinforcement design.

✓ Fabrication support based on project drawings and installation requirements.

Solution Value

✓ Reduce structure weight by up to 65% compared with stainless steel.

✓ Lower lifting and installation pressure.

✓ Better suited for large-scale architectural signage projects.

Product Challenge 02

Paint Failure & Outdoor Durability

Outdoor exposure can lead to fading, peeling, blistering, and surface aging.

DIKA SIGN Solution

✓ Aluminum pretreatment before finishing.

✓ Automotive-grade fluorocarbon coating system.

☒ Long-term UV, rain, humidity, and temperature changes affect sign finishes.

☒ Poor surface pretreatment can cause coating failure.

☒ Coastal or high-humidity environments increase corrosion risks.

☒ Repainting and rework increase long-term project costs.



✓ Controlled coating process for improved adhesion and weather resistance.

Solution Value

✓ Stronger paint adhesion and better long-term appearance.

✓ Reduced peeling, fading, and repainting risk.

✓ Improved outdoor durability for demanding environments.

Product Challenge 03

Electrical, Lighting & Water Ingress Risk

Outdoor illuminated letters need stable lighting, safe electrical systems, and waterproof details.

☒ Standard LED modules may fail faster in outdoor conditions.

☒ Experience-based LED layout can create dark areas or uneven brightness.

☒ Generic power supplies and wiring increase electrical failure risk.

☒ Basic sealant-only waterproofing can lead to water ingress.



DIKA SIGN Solution

✓ Premium waterproof LED modules.

✓ Optional UL Recognized LED Modules.

✓ Optional UL Listed Power Supplies.

✓ Optional UL Wiring Components.

✓ Sealed structure combined with drainage design.

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Solution Value

✓ More uniform illumination and better night visibility.

✓ Lower electrical and maintenance risk.

✓ Improved long-term outdoor reliability.

Product Challenge 04

Uneven Illumination & Night Visibility

Poor lighting design can affect sign visibility, readability, and brand image.

☒ Experience-based LED layouts can create hot spots and shadows.

☒ Uneven brightness reduces nighttime readability.

☒ Inconsistent illumination affects overall sign appearance.

☒ Rework may be required after installation to correct lighting issues.



DIKA SIGN Solution

✓ Optimized LED layout based on letter depth and stroke width.

✓ Lighting design considers spacing, reflection, and illumination uniformity.

✓ Tested LED positioning before production.

✓ Premium LED modules for stable light output.

Solution Value

✓ More uniform illumination across the entire letter face.

✓ Better nighttime visibility and readability.

✓ Cleaner and more professional brand presentation.

✓ Reduced maintenance and lighting adjustment requirements.

Product Types & Typical Channel Letter Options	
Product Type	**Typical Applications / Features**
Front-Lit Channel Letters	Retail stores, shopping centers, brand signs, commercial building facades.
Back-Lit / Halo-Lit Letters	Hotels, corporate buildings, premium brand signage, architectural facades.
Front & Back-Lit Letters	High-visibility outdoor signage requiring both face lighting and halo effect.
Large Building Facade Letters	Oversized letters for commercial developments, stadiums, campuses, and industrial parks.
Custom Aluminum LED Letters	Custom size, color, finish, lighting method, mounting structure, and electrical configuration.

Why Choose DIKA SIGN?

Outdoor Aluminum Signage Focus	Made Light · Built to Last	30 Years of Signage Expertise	OEM / ODM Partner
Aluminum is about one-third the weight of stainless steel, ideal for large outdoor signs.	Outdoor-grade fluorocarbon finish helps resist fading, blistering, and weathering.	30 years of signage experience helps deliver complex projects with confidence	Partner-only manufacturing support, with no competition for your end clients.
Aluminum vs Stainless Steel	**Our Finishing Process**	**View Capabilities**	**Partner Support**

FAQ

Why are aluminum channel letters better for large projects?

Aluminum weighs only about 35% of stainless steel, reducing structure weight by up to 65%. This helps lower transportation costs, installation difficulty, structural loads, and lifting requirements.

Do aluminum channel letters rust?

Aluminum does not develop red rust like carbon steel or galvanized steel. Combined with fluorocarbon coating systems, it performs well in long-term outdoor environments.

Why does aluminum provide better paint performance?

Properly treated aluminum offers stronger coating adhesion, helping reduce peeling, fading, and coating failure over time.

Can aluminum channel letters be customized?

Yes. Size, depth, color, finish, lighting method, mounting structure, and electrical configuration can be customized based on project drawings and site requirements.

Can DIKA SIGN provide UL-compliant electrical solutions?

Yes. Optional UL LED Modules, UL Power Supplies, and UL Wiring Components are available to support North American project requirements.

What types of projects are aluminum channel letters suitable for?

They are widely used for shopping centers, hotels, corporate campuses, industrial parks, stadiums, healthcare facilities, educational institutions, airports, and other outdoor architectural signage projects.

Aluminum Channel Letters 铝制发光字

大型户外标识专用铝制发光字

Made Light · Built to Last

铝制发光字是一种采用铝合金结构和 LED 照明系统制作的立体发光标识，广泛应用于商业建筑、商业综合体、酒店、园区、工业园区、体育场馆及各类户外建筑标识项目。

与传统不锈钢发光字或镀锌板发光字相比，铝制结构能够显著降低重量，同时提升耐腐蚀性能、油漆附着力及长期户外使用效率。

DIKA SIGN 专注于为标识公司及设计公司提供定制化铝制发光字解决方案，帮助客户交付更轻、更耐久、更易安装的大型户外标识项目。

- ✓ 比不锈钢结构减重最高可达 65%
- ✓ 专为长期户外环境设计
- ✓ 更强的油漆附着力与表面性能
- ✓ 可选 UL 标准电气解决方案
- ✓ 适用于大型建筑立面及建筑标识项目

典型应用场景

- ✓ 商业综合体
- ✓ 品牌连锁门店
- ✓ 酒店及文旅项目
- ✓ 企业总部
- ✓ 工业园区
- ✓ 体育场馆
- ✓ 医疗机构
- ✓ 教育园区
- ✓ 机场及交通枢纽

Key Advantages 核心优势

图标+ **比不锈钢减重最高可达 65%** 降低运输、吊装、安装及建筑荷载压力。	**图标+** **专为户外耐久而设计** 耐腐蚀铝材结合氟碳喷涂系统，适用于长期户外环境。	**图标+** **更优异的涂层性能** 更强的油漆附着力，降低起皮、褪色及返修风险。

项目挑战与解决方案

产品挑战 01 字体重量过大 **大型金属发光字会增加运输、吊装及安装压力。**	**DIKA SIGN 解决方案** ✓ 全铝结构发光字系统。 ✓ 优化围边、背板及内部加强结构设计。 ✓ 根据项目图纸及安装需求提供结构支持。

✓ 不锈钢或镀锌钢结构在大型项目中重量较大。 ✓ 建筑荷载增加安装难度及吊装风险。 ✓ 超大尺寸字体提高运输与物流成本。 ✓ 大型立面项目对重量控制要求更高。	**方案价值** ✓ 相比不锈钢结构减重最高可达 65%。 ✓ 降低吊装及安装压力。 ✓ 更适合大型建筑标识项目。

产品挑战 02 油漆失效与户外耐候问题 **长期户外环境可能导致褪色、起皮、起泡及表面老化。** ✓ 紫外线、雨水、湿度及温差变化影响表面效果。 ✓ 表面处理不足可能导致油漆附着力下降。 ✓ 海边及高湿环境增加腐蚀风险。 ✓ 后期翻新及返工增加维护成本。	**DIKA SIGN 解决方案** ✓ 喷涂前进行铝材预处理。 ✓ 汽车级氟碳喷涂系统。 ✓ 标准化喷涂工艺提升附着力与耐候性。 **方案价值** ✓ 更强的油漆附着力。 ✓ 降低起皮、褪色及返修风险。 ✓ 提升长期户外耐久性能。

产品挑战 03 电气系统与进水风险 **户外发光字需要稳定照明、安全电气系统及可靠防水设计。** ✓ 普通 LED 模块在户外环境中寿命较短。 ✓ 普通电源及接线增加电气故障风险。 ✓ 单纯依靠打胶密封容易产生进水问题。	**DIKA SIGN 解决方案** ✓ 品牌级防水 LED 模块。 ✓ 可选 UL Recognized LED Modules。 ✓ 可选 UL Listed Power Supplies。 ✓ 可选 UL Wiring Components。 ✓ 密封结构结合排水设计。 **方案价值** ✓ 更稳定的发光与电气表现。 ✓ 降低电气及维护风险。 ✓ 提升长期户外使用可靠性。

产品挑战 04 发光不均与夜间识别度不足 **照明设计不合理会影响标识可视性、识别性及品牌形象。** ✓ 经验式布灯容易产生亮斑及阴影。 ✓ 发光不均影响夜间识别效果。 ✓ 光效不一致影响整体视觉品质。 ✓ 后期可能需要重新调整照明系统。	**DIKA SIGN 解决方案** ✓ 根据字深及笔画宽度优化 LED 布局。 ✓ 综合考虑灯距、反射及发光均匀性。 ✓ 生产前进行 LED 布局验证。 ✓ 采用高品质 LED 模块确保稳定输出。 **方案价值** ✓ 更均匀的整体发光效果。 ✓ 更好的夜间可视性与识别性。 ✓ 更专业的品牌展示效果。 ✓ 减少后期调整与维护需求。

产品类型与常见方案

产品类型	应用场景 / 特点
正面发光字	品牌门店、商业综合体、建筑立面。
背发光字	酒店、企业总部、高端品牌项目、建筑立面。
正背发光字	同时具备正面发光及背发光效果，适合高识别度户外标识。
大型建筑立面字	商业综合体、体育场馆、园区和工业项目的大尺寸发光字。
定制铝制 LED 发光字	尺寸、颜色、表面处理、发光方式、安装结构及电气配置均可定制。

为什么选择 DIKA SIGN 鼎泰狮?

专注户外铝制标识系统 铝材重量约为不锈钢的三分之一，更适合大型户外标识。 Aluminum vs Stainless Steel	**更轻 · 更耐久** 户外级氟碳表面处理有助于抵抗褪色、起泡和风化。 Our Finishing Process
30 年标识专业经验 30 年标识经验帮助客户更有信心交付复杂项目。 View Capabilities	**OEM / ODM 合作伙伴** 只服务合作伙伴， 不与客户竞争终端项目。 Partner Support

Section 7: FAQ 常见问题

为什么铝制发光字更适合大型项目？

铝材重量约为不锈钢的 35%，整体结构可减重最高约 65%，有效降低运输、吊装、安装及建筑荷载压力。

铝制发光字会生锈吗？

铝不会像碳钢或镀锌钢那样产生红锈，配合氟碳喷涂系统更适合长期户外环境。

为什么铝材油漆性能更好？

经过专业预处理后，铝材具有更强的油漆附着力，可降低起皮、褪色及涂层失效风险。

铝制发光字可以定制吗？

可以。尺寸、厚度、颜色、表面处理、发光方式、安装结构及电气系统均可根据项目需求定制。

DIKA SIGN 可以提供 UL 标准电气方案吗？

可以。可根据项目需求提供 UL LED 模块、电源及线材系统，满足北美项目要求。

铝制发光字适用于哪些项目？

广泛应用于商业综合体、酒店、企业园区、工业园区、体育场馆、医疗、教育、机场及其他建筑标识项目。