3D 雕刻铝制背发光字 3D Aluminum Letters – Carved & Backlit

DIKA SIGN 鼎泰狮 3D 雕刻铝制背发光字，采用立体雕刻铝制字面、背部 LED 发光组件与定制嵌装结构，可与大理石等建筑饰面协调安装。

白天呈现精致的金属立体层次，亮灯后以柔和轮廓光突出字形，兼顾建筑质感与夜间识别。

产品适用于高端住宅楼栋号、商业建筑入口标识、地下车库楼栋入口及酒店办公楼编号标识，支持尺寸、颜色、发光效果和安装结构定制。

典型应用场景

✓ 高端住宅楼栋入口
✓ 商业综合体单元入口
✓ 地库楼栋入口
✓ 酒店与办公楼编号标识

Key Advantages 核心优势

图标+ **三维雕刻铝字，质感更出色** 斜面、凹槽与精细棱线，让铝制楼栋号呈现丰富的金属层次。	**图标+** **LED 背部轮廓光，识别更清晰** 结合字形与光路优化 LED 布局，兼顾夜间识别和建筑空间氛围。	**图标+** **石材嵌装设计，安装更精准** 结合石材槽口、固定节点及电气走线深化设计，减少安装偏差。

项目挑战与解决方案

产品挑战 01 普通楼栋号缺乏立体质感，难以融入高端建筑 **高端住宅与商业建筑常采用大理石、金属及其他精装材料，普通平面楼栋号容易显得单薄，难以与建筑空间形成统一的视觉效果。** ✓ 数字造型缺乏层次，白天视觉效果平淡 ✓ 字面、石材和墙体比例不协调 ✓ 样板与效果图之间存在质感偏差	**DIKA SIGN 解决方案** ✓ 采用 3D 雕刻铝字工艺，深化斜面、凹槽与立体轮廓 ✓ 根据建筑饰面协调金属颜色、纹理及安装比例 ✓ 通过实物样板确认雕刻细节与表面效果 **方案价值** ✓让铝制楼栋号与石材立面自然融合，提升高端住宅与商业空间的整体品质

产品挑战 02	DIKA SIGN 解决方案
LED 背发光不均，影响夜间识别与建筑质感 **3D 雕刻铝制背发光字的笔画、转角和内凹深度各不相同。如果 LED 位置与透光结构不匹配，容易出现局部过亮、光线断点或眩光。** ✓ 窄笔画或弧线位置的光效不连续 ✓ 灯珠点状感明显，影响观感 ✓ 实际灯光效果与设计预期差异较大	✓ 结合字形深度和 LED 位置优化光路 ✓ 按项目要求选择光源、色温及电气组件 ✓ 通过实物样板验证亮灯与熄灯两种状态。 **方案价值** ✓ 让柔和背光突出 3D 雕刻层次，兼顾夜间识别与建筑空间氛围，减少现场灯光调整。

产品挑战 03	DIKA SIGN 解决方案
石材嵌装与户外防护要求高，安装返工风险大 高端建筑的发光楼栋号通常需要与大理石等饰面精确配合。室外入口和地下车库还涉及防潮、电气防护及后期检修，若前期缺乏深化设计，容易出现安装偏差与维护困难。 ✓ 铝字尺寸与石材预留槽口不匹配 ✓ 固定节点、电源走线及检修空间不足 ✓ 户外雨水、潮湿环境增加电气故障风险	✓ 提前复核石材开孔、嵌装深度、固定结构及出线位置 ✓根据室内、半户外或室外环境配置表面处理与电气防护 ✓提供安装节点建议，统筹密封、排水和检修方式。 **方案价值** ✓ 减少施工配合误差，使定制楼栋编号更容易实现稳定、整洁的安装效果。

典型应用 | Typical Applications

应用场景	常见用途与产品价值
高端住宅社区标识	楼栋号、单元号、入户大堂入口编号；与石材立面相融合。
商业综合体标识	楼栋入口、商业单元编号、商铺区域入口；提升识别与空间一致性。
地下车库及楼栋出入口标识	地库楼栋入口、分区与单元编号；兼顾较低照度下的识别。
酒店及高端办公楼标识	入口编号、楼层标识及建筑导向节点；突出三维金属细节。
定制建筑编号标识	按设计要求组合数字、字母和局部图形，协调建筑饰面和灯光。

为什么选择 DIKA SIGN 鼎泰狮?

专注户外铝制标识系统 铝材具有轻量化优势， 适合定制建筑标识及复杂安装结构。 **了解铝制标识优势**	**更轻 · 更耐久** 根据使用环境配置表面处理与防护方案， 兼顾外观与长期可靠性。 **查看解决方案**
30 年标识专业经验 积累商业、酒店及高端建筑标识 工程实践经验。 **了解我们**	**深化设计 · 制造交付** 从图纸深化到生产安装，全流程协同， 减少返工，确保项目落地。 **查看工程案例**

FAQ 常见问题

1. 3D 雕刻铝制背发光字与普通发光字有什么不同？

这款产品采用具有斜面与三维层次的铝制字面，LED 设置在背部或内凹光路位置，使字形轮廓与金属雕刻造型共同形成视觉效果。普通平面发光字则主要依靠正面透光或简单轮廓发光。

2. 能否用于户外住宅楼栋入口和地下车库入口？

可以，但不同环境应采用相应的表面处理、电气防护及结构配置。户外或潮湿环境的防护等级需依据最终项目要求及测试确认。

3. 字体、金属颜色与 LED 色温可以定制吗？

可以。可按图纸定制数字、字母、三维斜面、表面颜色、光色及安装结构，并在批量生产前通过样板确认。

4. 能否提供大型楼栋号或成套建筑编号标识？

可以根据尺寸、笔画结构与安装基层评估加工和分件方案。对于大尺寸或特殊安装条件，建议先确认结构、运输、吊装和检修要求。

5. 北美项目是否可以采用 UL 48 相关电气方案？

可以按北美项目要求评估适用的 UL 48 认证配置。采用 UL 认可组件不等于整个成品自动获得 UL 48 认证，实际认证与标签以最终产品配置和认证文件为准。

6. DIKA SIGN 能否提供楼栋标识深化设计、制作和安装服务？

可以。DIKA SIGN 可根据项目图纸和现场条件，提供楼栋标识深化设计、样板确认、定制制作及国内安装配合服务，协助完成从设计到施工落地的衔接。海外项目主要提供 OEM/ODM 制造及技术支持，不包含现场安装。

3D Aluminum Letters – Carved & Backlit

DIKA SIGN 3D carved and backlit aluminum letters combine a sculpted aluminum face, rear-mounted LED lighting and a custom recessed installation structure. They can be integrated with marble and other architectural finishes.

By day, precision-shaped bevels and grooves create distinctive metallic depth. When illuminated, soft contour lighting accentuates the letterform while supporting nighttime visibility.

Designed for luxury residential building numbers, commercial building entrances, parking-garage access points, and hotel or office identification, each project can be customized in size, finish, lighting and mounting structure.

Typical Applications

✓ Luxury residential building entrances
✓ Retail and commercial unit entrances
✓ Parking-garage building entrances
✓ Hotel and office building identification

Key Advantages

Icon + **3D-Carved Detail, Refined Appearance** Beveled surfaces, recessed grooves and defined edges give aluminum building numbers a layered metallic appearance.	**Icon +** **Soft LED Backlighting, Clearer Contours** LED placement and light paths are engineered around the letterform to balance visibility with the surrounding architectural ambience.	**Icon +** **Recessed Stone Integration, Precise Installation** Stone cutouts, fixing details and cable routing are coordinated during engineering to reduce on-site fitting issues.

Project Challenges & Solutions

Challenge 01 **Flat Building Numbers Lack the Depth Expected in Premium Spaces** **Luxury residences and commercial properties often feature marble, metal and other premium finishes. Flat building numbers can appear visually weak against these materials.**	**DIKA SIGN Solutions** ✓ Refine bevels, grooves and relief profiles in the 3D carved aluminum design ✓ Coordinate metal finishes, surface textures and mounting proportions with the architecture ✓ Verify carved details and finishing with a physical sample **Project Value**

✓ Limited dimensional detail in daylight ✓ Poor proportions between lettering, stone and wall finishes ✓ Differences between renderings and finished samples	✓ A cohesive visual identity between dimensional aluminum building numbers and the surrounding stonework.

Challenge 02 **Uneven Backlighting Reduces Nighttime Clarity** **Stroke widths, corners and recess depths vary across 3D carved letters. Poor LED placement or light-path design can create hotspots, gaps or glare.** ✓ Discontinuous lighting around narrow strokes or curves ✓ Visible LED points ✓ Differences between expected and installed lighting effects	**DIKA SIGN Solutions** ✓ Optimize LED placement, recess depth and illuminated gaps ✓ Select light sources, color temperature and electrical components for the project ✓ Review illuminated and unlit states on a physical sample **Project Value** ✓ Soft contour lighting that emphasizes 3D detailing and improves nighttime visibility with less on-site adjustment.

Challenge 03 **Stone Integration and Outdoor Protection Create Installation Risks** Illuminated building numbers must fit precisely within marble or other cladding. Outdoor entrances and parking-garage areas also require attention to moisture exposure, electrical protection and maintenance access. ✓ Mismatch between aluminum letters and stone cutouts ✓ Insufficient fixing, wiring or maintenance space ✓ Increased electrical risk from water or damp conditions	**DIKA SIGN Solutions** ✓ Check stone openings, recess depth, fixings and cable exits before production ✓ Specify finishes and electrical protection for indoor, semi-outdoor or exposed conditions ✓ Coordinate sealing, drainage, access and installation details **Project Value** ✓ Cleaner, more reliable recessed installation with fewer on-site corrections and reduced maintenance risk.

Typical Applications | Use Cases & Value

Application	Common Uses & Value
Luxury Residential Properties	Building and unit numbers at entrances and lobbies, coordinated with marble facades.
Retail and Commercial Complexes	Building entrances, commercial units and retail zones with consistent wayfinding.

Parking Garages and Building Access	Garage access points, zones and unit numbers for better visibility in lower-light areas.
Hotels and Premium Office Buildings	Entrance numbers, floor identification and architectural wayfinding details.
Custom Architectural Identification	Project-specific combinations of numerals, letters and graphic elements that align with facade finishes and lighting.

Why Choose DIKA SIGN?

Focused on Outdoor Aluminum Signage Lightweight aluminum supports custom architectural identification and complex mounting requirements. Explore Aluminum Signage Benefits	**Made Light · Built to Last** Finishes and protective details are specified for the intended environment to support long-term reliability. Explore Solutions
30 Years of Signage Experience Experience across commercial, hospitality and premium architectural signage projects. About DIKA SIGN	**Engineering to Manufacturing Delivery** Coordinated shop drawings, production and delivery help reduce rework and support project execution. View Case Studies

Frequently Asked Questions

1. How are 3D carved backlit aluminum letters different from standard illuminated letters?

They feature a sculpted aluminum face with bevels and recessed details. LEDs positioned within the rear recess create contour lighting that complements the dimensional metalwork, rather than relying mainly on a front-illuminated face.

2. Can these letters be installed outdoors or at parking-garage entrances?

Yes, subject to project-specific finishes, electrical protection and mounting details. Any required outdoor or damp-location rating must be confirmed against the final configuration and testing.

3. Can the letterforms, metal finishes and LED color temperatures be customized?

Yes. Numerals, letters, bevel profiles, finishes, light colors and mounting structures can be developed from drawings and confirmed with a pre-production sample.

4. Do you make large building numbers or complete building-number sets?

Yes. Feasibility, segmentation and mounting are assessed against letter size, stroke geometry and substrate. Oversized designs should be reviewed for structural, shipping, lifting and maintenance needs.

5. Can North American projects use a UL 48-compliant electrical configuration?

DIKA SIGN can assess applicable UL 48 certification requirements for North American projects. UL-recognized components alone do not certify the complete sign; labeling and certification depend on the final product configuration and supporting documentation.

6. What engineering, manufacturing and installation support does DIKA SIGN offer?

We provide drawing review, shop drawings, samples, custom manufacturing and quality control. Installation services are available for domestic projects in China. For overseas OEM/ODM partners, we provide manufacturing and technical support; on-site installation is excluded.