商业综合体异形精神堡垒 Sculptural Pylon Signage

商业综合体异形精神堡垒，是用于商场主入口、商业广场及特色街区的大型形象与导视标识。产品可采用不锈钢或铝板外壳、金属骨架、户外涂装，并组合立体字及商户信息面板，兼顾商业形象展示与访客导向。

DIKA SIGN® 鼎泰狮作为标识源头制造工厂，可依据客户提供的效果图或设计图纸，开展制造可行性评估、异形结构深化、构件拆分及生产制作，并通过关键部位打样、工厂预组装和质量检查，减少现场拼装误差与返工。

可按项目要求定制外形尺寸、材料、氟碳烤漆颜色、图文信息及发光配置。针对大型户外精神堡垒，结合现场条件深化内部骨架、分段连接、基础预埋及电气防护；必要的结构计算与审核按项目要求由相应专业单位实施。

典型应用场景

- ✓ 商业综合体主入口
- ✓ 商场广场与商业街区
- ✓ 城市更新商业项目
- ✓ 企业园区与公共建筑地标

Key Advantages 核心优势

图标+ **造型深化，效果还原更可控** 根据客户效果图深化异形结构、分段工艺及拼装节点，减少制作偏差，还原设计效果。	图标+ **氟碳烤漆，外观更耐久** 采用与金属基材匹配的户外氟碳涂装体系，控制前处理、底漆、面漆与质量检查，降低后期脱漆风险。	图标+ **结构与电气，交付更可靠** 统筹内部骨架、结构连接及电气布线，结合现场条件优化运输、安装与后期维护。

项目挑战与解决方案

产品挑战 **01** 效果图造型复杂，异形精神堡垒难以还原 商业综合体异形精神堡垒常包含曲面、错层及多面组合结构。若缺乏制造深化，容易出现尺寸偏差、拼装错位和造型失真。 **主要痛点** ✓ 异形曲面与分段构件加工精度难控制 ✓ 复杂拼接节点容易出现缝隙和错位 ✓ 设计效果图与实际成品存在偏差	**DIKA SIGN® 鼎泰狮解决方案** ✓ 根据客户效果图评估尺寸、结构及制造可行性 ✓ 深化异形箱体、分段结构与拼装连接节点 ✓ 对关键部位进行样板确认及工厂预拼装 **方案价值** ✓ 将复杂效果图转化为可制造、可装配的异形精神堡垒结构，提高效果还原度，减少现场调整与返工。

产品挑战 **02** 户外漆面易老化脱落，长期耐久性要求高 精神堡垒长期暴露于日晒、雨淋及温差变化的户外环境。若基材前处理、底漆及面漆施工不到位，容易出现褪色、起泡、起皮和漆膜脱落，增加后期维护成本。 **主要痛点** ✓ 长期紫外线、雨水及温差变化影响漆面耐久性 ✓ 基材前处理不充分易造成漆膜附着力不足 ✓ 边角、焊缝及接缝处易出现涂层缺陷与脱落	**DIKA SIGN® 鼎泰狮解决方案** ✓ 采用适配金属基材的户外级氟碳涂装体系，提高耐候性能 ✓ 严格控制基材前处理、底漆、氟碳面漆及固化等关键工序 ✓ 加强涂层厚度、附着力及边角漆面质量检查 **方案价值** ✓ 提升不锈钢烤漆精神堡垒的户外耐久性，降低漆面老化、脱落及后期翻新维护风险。

产品挑战 03 体量大、结构复杂，运输吊装与安装风险高 大型户外精神堡垒既是商业形象标识，也需要满足结构安全与维护要求。内部骨架、基础连接、分段运输及现场安装必须协调。 **主要痛点** ✓ 风荷载、基础及结构连接要求高 ✓ 异形构件体量较大，运输吊装困难 ✓ 电气防护及后期维护条件容易被忽视	**DIKA SIGN® 鼎泰狮解决方案** ✓ 依据项目尺寸与现场条件深化骨架及安装节点 ✓ 按项目要求评估风荷载、基础连接和分段运输方案 ✓ 统筹电气布线、防水、排水及检修空间 **方案价值** ✓ 从工厂制造阶段提前控制结构和安装风险，提高大型精神堡垒交付的可靠性与现场施工效率。

典型应用 | Typical Applications

应用场景	常见用途与产品价值
商业综合体标识	商场主入口、商业广场形象塔及导览信息展示，强化项目识别。
商业街区标识	步行街、开放式商业街与街区入口，以立式标识承载品牌及方向信息。
城市更新商业标识	更新后的商业节点与公共空间，按既有建筑环境定制造型及尺寸。
企业与产业园区标识	园区主入口和核心广场，兼顾项目名称展示与访客导向。
公共建筑与地标标识	公共建筑入口、地标广场与开放空间，定制形象塔、建筑名称及导视信息。

为什么选择 DIKA SIGN® 鼎泰狮?

自有工厂 · 金属定制 自有制造工厂，承接异形构件加工、户外涂装、工厂预组装与交付。 **了解制造实力**	**长期耐久 · 工艺把关** 重视前处理、配套涂层与过程检查，降低户外标识的返修风险。 **查看解决方案**
30 年标识工程经验 积累商业、酒店及园区等标识工程的制造与现场协同经验。 **了解我们**	**深化制造 · 工程交付** 从效果图评估到结构深化、生产制作与现场安装配合。 **查看工程案例**

FAQ 常见问题

1. 异形精神堡垒只有效果图，没有加工图，工厂能制作吗？

可以。DIKA SIGN® 鼎泰狮可根据客户提供的效果图、设计尺寸及安装条件，评估异形结构的制造可行性，深化内部骨架、分段构件、连接节点及加工图纸，经过确认后进入生产，尽可能还原设计效果。

2. 异形精神堡垒采用什么金属材料更合适？

常用材料包括不锈钢、铝板及镀锌钢结构。外壳可根据造型和耐候要求选用不锈钢或铝板，内部骨架则根据尺寸、受力及安装条件配置。具体材质、厚度和结构以项目深化及计算结果为准。

3. 户外精神堡垒使用什么油漆和工艺更耐久？

建议采用与金属基材匹配的户外级氟碳涂装体系。耐久性不仅取决于油漆品质，还取决于基材前处理、配套底漆、面漆施工及固化等工序，并通过漆膜厚度、附着力和表面质量检查，降低褪色、起泡及脱漆风险。

4. 大型异形精神堡垒需要进行抗风和结构安全计算吗？

需要根据项目条件进行结构安全评估。大型户外精神堡垒应结合高度、迎风面积、当地风荷载及基础条件，对内部骨架、连接节点、预埋件和基础进行必要的结构计算，并按项目要求由具备相应资质的单位审核确认。

5. 发光精神堡垒如何做好电气防水和后期检修？

可根据项目要求配置 LED 发光字、内部照明及控制系统。制造深化时应统筹电源、线路、防水连接、排水及检修口位置，按实际户外环境选择相应防护等级的电气组件，减少进水故障和后期维修难度。

6. 大型异形精神堡垒如何制作、运输及现场安装？

DIKA SIGN® 鼎泰狮根据效果图和安装条件进行结构深化、构件拆分、金属加工、表面处理及工厂预组装。对于大型或复杂造型，可制定分段运输、吊装连接及现场安装方案，减少拼装误差，提高工程交付效率。

Custom Sculptural Pylon Signs for Commercial Complexes

Custom sculptural pylon signs are large freestanding identification and wayfinding structures used at shopping mall entrances, commercial plazas and retail streets. They can combine stainless steel or aluminum cladding, a metal frame, exterior coatings, dimensional lettering and tenant directory panels to support both project identity and visitor navigation.

As a direct signage manufacturer, DIKA SIGN® works from client-supplied renderings or design drawings. We assess fabrication feasibility, develop complex structural details, divide the design into manufacturable sections, and produce the components. Samples, factory trial assembly and quality inspections help reduce onsite fitting errors and rework.

Dimensions, forms, materials, fluorocarbon paint colors, graphics and lighting can be customized to project requirements. For large outdoor pylon signs, we develop internal frames, sectional connections, foundation anchorage details and electrical protection around actual site conditions. Required structural calculations and approvals are completed by appropriately qualified professionals as specified for the project.

Typical Applications

- ✓ Main Entrances to Shopping Malls
- ✓ Commercial Plazas & Retail Streets
- ✓ Urban Renewal Retail Projects
- ✓ Corporate Campuses & Public Landmarks

Key Advantages

ICON + **Engineered Forms, More Faithful Results** We translate client renderings into workable shapes, fabricated sections and assembly joints to reduce dimensional deviations and preserve the intended appearance.	**ICON +** **Fluorocarbon Finishes, Built for Outdoor Exposure** We use substrate-compatible exterior fluorocarbon coating systems, with attention to preparation, primer, topcoat and quality checks to lower the risk of premature peeling.	**ICON +** **Structure & Electricals, More Reliable Delivery** We coordinate internal framing, connections and electrical routing with transport, onsite installation requirements and future maintenance.

Project Challenges & DIKA SIGN® Solutions

Challenge 01	DIKA SIGN® Solutions
Complex Renderings Are Difficult to Reproduce Accurately Sculptural pylons for commercial complexes often feature curves, stepped elements and multi-sided forms. Without fabrication engineering, dimensional errors and misaligned joints can undermine the intended appearance. **Key Challenges** ✓ Curved and sectional components require tight dimensional control ✓ Complex joints can lead to gaps and misalignment ✓ Finished components may differ from the original rendering	✓ Review dimensions, structure and manufacturability against client renderings ✓ Develop fabrication details for shaped cabinets, sections and connection joints ✓ Verify critical details through samples and factory trial assembly **Project Value** ✓ Turn a complex visual concept into components that can be fabricated and assembled with greater accuracy, reducing onsite adjustments and rework.

Challenge 02	DIKA SIGN® Solutions
Outdoor Coatings Can Age or Peel Without Proper Process Control Sculptural pylons face long-term exposure to sun, rain and temperature changes. Inadequate surface preparation, primer or topcoat application may cause fading, blistering, peeling and higher maintenance costs. **Key Challenges** ✓ UV exposure, moisture and temperature changes affect coating durability ✓ Insufficient substrate preparation can weaken paint adhesion ✓ Edges, welds and seams are prone to coating defects	✓ Select an exterior-grade fluorocarbon coating system suited to the metal substrate ✓ Control surface preparation, primer, fluorocarbon topcoat and curing steps ✓ Inspect film thickness, adhesion and coating quality at critical edges **Project Value** ✓ Improve the outdoor durability of custom metal pylon signage and reduce risks of coating failure, refinishing and long-term maintenance.

Challenge 03 Large, Complex Structures Create Transport and Installation Risks	DIKA SIGN® Solutions
Outdoor sculptural pylons serve as prominent identity signs and must also address structural safety and maintenance. Internal framing, foundation connections, segmented shipping and onsite assembly need to be coordinated. **Key Challenges** ✓ Wind loads, foundations and structural connections require careful assessment ✓ Large sculptural sections can be difficult to lift and transport ✓ Electrical protection and service access are easily overlooked	✓ Develop frame and installation details for project dimensions and site conditions ✓ Coordinate the review of wind loads, foundation joints and sectional transport plans ✓ Plan electrical routing, weather protection, drainage and maintenance access **Project Value** ✓ Identify structural and installation risks earlier in fabrication to improve delivery reliability and onsite assembly efficiency.

Typical Applications

Application	Typical Uses & Project Value
Commercial Complexes	Main shopping mall entrances, plaza identity pylons and directory panels that strengthen project recognition.
Retail Streets	Pedestrian shopping streets and open-air retail entrances, combining brand identity with wayfinding information.
Urban Renewal	Refurbished commercial destinations and public areas, with forms and dimensions adapted to existing architecture.
Corporate & Industrial Campuses	Main campus entrances and central plazas, combining site identity with visitor guidance.
Public Buildings & Landmarks	Public-building entrances, landmark plazas and open spaces with custom identity structures and directional information.

Why Choose DIKA SIGN®?

In-House Factory · Custom Metal Fabrication Our own manufacturing facility supports complex metal fabrication, exterior finishing, factory trial assembly and delivery. **Explore Manufacturing**	**Outdoor Durability · Process Control** We focus on surface preparation, compatible coatings and in-process inspections to help reduce outdoor refinishing risks. **View Solutions**
30 Years of Signage Project Experience Experience across commercial, hospitality and campus signage, with hands-on manufacturing and site coordination. **About Us**	**Fabrication Engineering · Project Delivery** From rendering review and structural detailing to production and installation coordination. **View Case Studies**

FAQ | Frequently Asked Questions

1. Can you fabricate a custom sculptural pylon sign from a rendering without shop drawings?

Yes. Based on client-provided renderings, target dimensions and installation conditions, DIKA SIGN® can assess fabrication feasibility and prepare shop drawings for internal framing, segmented components and connection details. Production begins after the relevant details are approved to help reproduce the intended design.

2. Which metals are suitable for custom sculptural pylon signs?

Common options include stainless steel, aluminum sheet and galvanized structural steel. Cladding can be selected to suit the intended form and exposure conditions, while the internal frame is specified according to size, loads and installation requirements. Final grades, thicknesses and structural details depend on the engineering review.

3. Which paint and finishing process provides better long-term outdoor durability?

We recommend an exterior-grade fluorocarbon coating system compatible with the selected metal substrate. Durability depends not only on the coating itself, but also on surface preparation, a compatible primer, topcoat application and curing. Film thickness, adhesion and visual inspections help reduce the risk of fading, blistering and peeling.

4. Do large outdoor sculptural pylon signs require wind-load and structural calculations?

Structural assessment depends on the project. Large outdoor pylon signs should be reviewed for overall height, wind-exposed area, local design wind loads and foundation conditions. Calculations

for internal framing, joints, anchors and foundations, together with any required approvals, should be completed by appropriately qualified professionals.

5. How do illuminated pylon signs address water ingress and future servicing?

LED lettering, internal illumination and control systems can be incorporated as required. Fabrication detailing considers power supplies, cable routing, weather-resistant connections, drainage and access panels. Electrical components are selected with protection ratings appropriate to the actual outdoor exposure to reduce water-related faults and simplify servicing.

6. How are large sculptural pylon signs fabricated, shipped and installed?

DIKA SIGN® develops the fabrication details from the approved design and site requirements, then proceeds with sectional fabrication, metalworking, surface finishing and factory trial assembly. For large or complex structures, segmented packing, lifting connections and site-installation coordination can be planned to reduce assembly errors and support efficient project delivery.