
Color & Material Guide

Zigong Lanterns & Animatronic Products

HuilonHall Culture & Arts Co., Ltd.

Product aesthetics, material science, and customization guide for international clients

www.festivelanterns.com | Zigong, Sichuan, China

Brand Color Palette

HuilonHall visual identity system for exhibition branding

Primary Colors



Midnight Black

0A0A0A

Primary brand color, backgrounds



Imperial Gold

D4A853

Accents, headers, decorative lines



Pure White

FFFFFF

Text on dark, card backgrounds

Metallic & Special Finishes

Gold Leaf

Hand-applied gold/silver leaf accents on premium lanterns

Copper Patina

Aged copper finish for heritage/artistic installations

Secondary Colors



Deep Navy

1A1A2E — Dark accents, gradient bases



Chinese Red

C0392B — Traditional lantern accents, CTA



Ocean Blue

2E86AB — Links, interactive elements



Jade Green

27AE60 — Nature themes, success states



Imperial Purple

8E44AD — Premium product highlights

Chrome Plating

Reflective chrome on dinosaur claws, teeth, claws

Matte Black

Powder-coated steel frames for modern aesthetics

Animatronic Product — Material Breakdown

Internal structure, skin system, and finish layers



Internal Frame Q235 carbon steel (GB/T 700)
5-40mm tube/angle steel, galvanized anti-corrosion

GB/T 700



Transmission DC motors + gear reducers
3-8 motions per unit, IP54 waterproof rating

IP54



Cushion Layer High-density polyurethane sponge
25-45kg/m³ density, shock-absorbing

DIN 53570



Silicone Skin (Patented) Patented silicone elastomer
Weather-resistant, UV-stable, -40°C~+60°C

Patent ZL



Surface Paint Automotive-grade PU paint
Color-matched per species, anti-fade 5+ years

ISO 2813



Details & Eyes Acrylic resin eyes + teeth/claws
Hand-painted, hyper-realistic glass effect

Hand-craft

All materials comply with CE, FCC, RoHS. Custom material upgrades available upon request.

Lantern Product — Material & Surface Guide

Frame, surface decoration, lighting, and finishing materials

Frame & Structure

Center Column

25-40mm angle steel (Q235), galvanized

Shaping Wire

#10-14 galvanized wire, 0.5-2.5mm²

Support Rods

6-12mm round steel, welded joints

Anti-corrosion

Hot-dip galvanized + powder coating

LED Lighting Options



Static LED

Fixed color, single-tone illumination



RGB LED

16M colors, programmable sequences



Pixel LED

Addressable pixels for animation/motion effects



Fiber Optic

Star-field effects, water shimmer simulation



Neon Flex

Flexible LED strips for outlines and contours

Surface Decoration

Base Fabric

Eight-satin, polyester, color cloth (GB/T 18885)

Art Painting

Acrylic Chinese painting, calligraphy, paper cutting

Gold/Silver Leaf

Hand-applied leaf accents for premium lanterns

Art Lace Borders

Decorative trim along edges and joints

Surface Treatment & Coatings

Paint systems, protective coatings, and durability specifications

Paint Systems

Base Coat (Primer)

Epoxy zinc-rich primer, 40-60µm

ISO 12944 C4

Mid Coat

Polyurethane intermediate, 80-100µm

ISO 12944

Top Coat (Finish)

Automotive-grade PU, 40-60µm

ISO 2813

Clear Coat

UV-resistant varnish, 20-30µm

ASTM G154

Anti-fade Guarantee

5+ years outdoor, 10+ years indoor

QA Standard

Protective Coatings

Galvanization

Hot-dip zinc coating for steel frames, 65-120µm thickness

Powder Coating

Electrostatic thermoset powder, UV and chemical resistant

Waterproofing

Silicone-based sealant on all electrical connections

Anti-corrosion

Cathodic protection for submerged/water features

Fire Retardant

GB 20286 rated, self-extinguishing materials

Outdoor

5+ Years

Indoor

10+ Years

Temp Range

-40°C ~ +60°C

Humidity

0-95% RH

UV Rating

ASTM G154 Pass

Custom Color Options

Pantone matching, themed palettes, and custom finishes available

Pantone Matching System

All colors can be matched to Pantone, RAL, or NCS standards.

- ✓ Pantone Matching System (PMS) accurate to $\Delta E < 1$
- ✓ RAL Classic & Design palette support
- ✓ NCS (Natural Color System) for Scandinavian clients
- ✓ Custom sample approval before mass production
- ✓ Color swatch physical samples shipped on request

Custom Finish Options

Glossy

High-shine, mirror-like finish

Matte

Non-reflective, velvety texture

Satin

Soft sheen between gloss and matte

Textured

Simulated scales, fur, or bark

Metallic

Gold, silver, bronze shimmer

Luminous

Glow-in-the-dark for night effects

Iridescent

Color-shifting under different angles

Antique

Aged/weathered patina effect

Popular Themed Palettes

Chinese Heritage



Traditional festivals, cultural events

Jurassic Forest



Dinosaur parks, nature themes

Ocean World



Aquarium themes, water lanterns

Winter Wonderland



Christmas markets, ice festivals

All custom colors and finishes require sample approval. Lead time: 5-7 business days for color matching.

Sustainability & Compliance

Eco-friendly materials, certifications, and regulatory compliance

Eco-Friendly Materials

Lead-Free Paint

All coatings comply with RoHS directive (EU 2015/863)

Eco Adhesive

GB 18583 compliant, low-VOC water-based adhesives

Recyclable Steel

Q235 carbon steel, 100% recyclable at end-of-life

LED Lighting

80% energy reduction vs. incandescent, mercury-free

Natural Fabrics

GB/T 18885 certified textiles, AZO-free dyes

Water-Based Inks

Solvent-free printing for surface decoration

International Certifications

CE

European Conformity

Electrical safety, EMC compliance

FCC

Federal Communications

US electromagnetic compatibility

RoHS

Hazardous Substances

EU restriction on lead, mercury, cadmium

ISO 9001

Quality Management

Production process quality assurance

GB/T
18885


Eco-Textile Standard

China ecological textile requirements

GB 18583

Indoor Adhesive

VOC emission limits for adhesives

 **Our Sustainability Commitment:** We continuously improve material sourcing, reduce waste in production, and prioritize recyclable materials. All products meet or exceed international environmental regulations.