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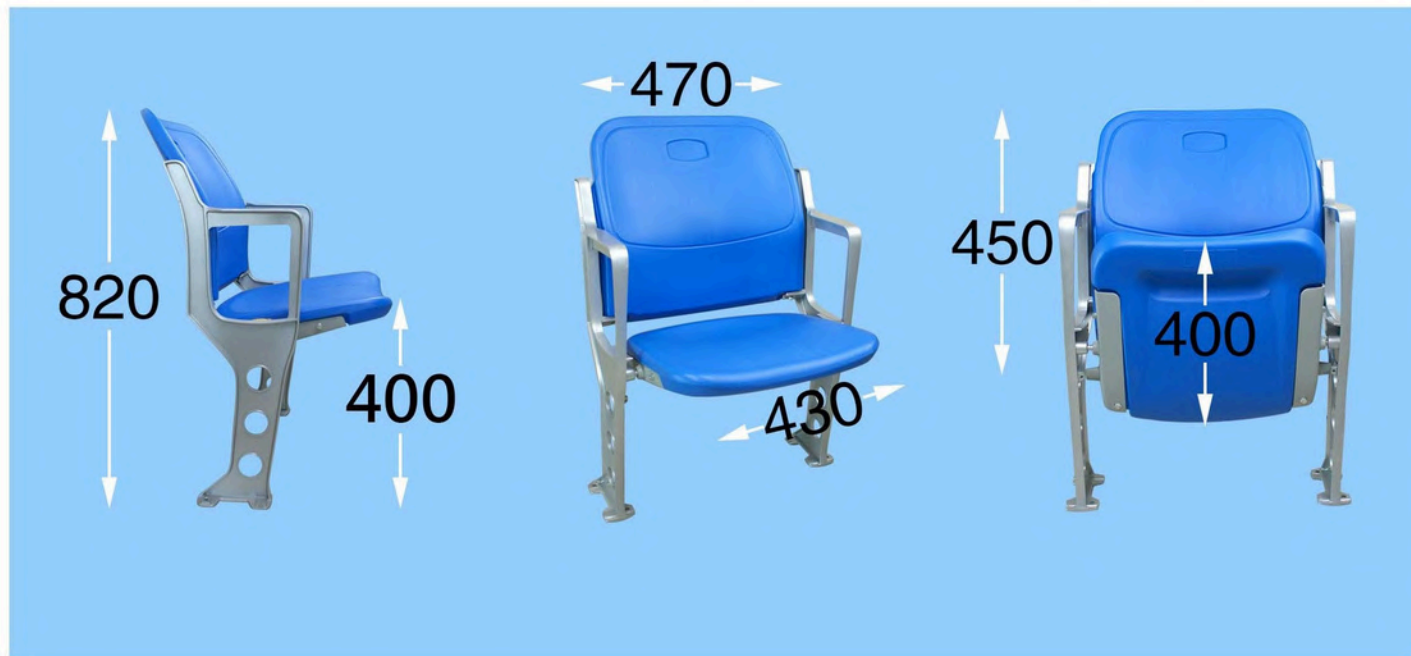


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STADIUM



HDPE-04



Stadium VIP Tip-up Seat HDPE-04

Central Distance:	470mm
Depth:	400mm
Height:	820mm
Back Height:	450mm
Off Ground Height:	400mm
Width:	430mm
Structrue Material:	Cast aluminium
Seat Material:	HDPE
Installation:	Ground mounted
MOQ:	100seats





HDPE-04



PP-07



Stadium VIP Tip-up Seat PP-07

Central Distance:	430mm
Depth:	420mm
Height:	800mm
Back Height:	500mm
Off Ground Height:	420mm
Width:	450mm
Structure Material:	Cast aluminium
Seat Material:	HDPE
Installation:	Ground mounted
MOQ:	100seats



Stadium Seats

-Black faux leather without armrest



Stadium Seats

-Yellow with armrest



Stadium Seats

-Red fabric without armrest



Product Detail

- The seat bracket is made of aluminum alloy cast aluminum structure, the column is made of hot-dip galvanized rectangular square steel, the seat chair surface is made of PP plastic, which is UV resistant for ten years without discoloration and fifteen years without deformation, plug-and-play quick installation, no need for bolt fixation, and the special transport pallet for quick loading and unloading.
Scope of application: all kinds of indoor and outdoor performance activities, concerts, sporting events, conferences and exhibitions.



Stadium VIP Tip-up Seat HDPE-05

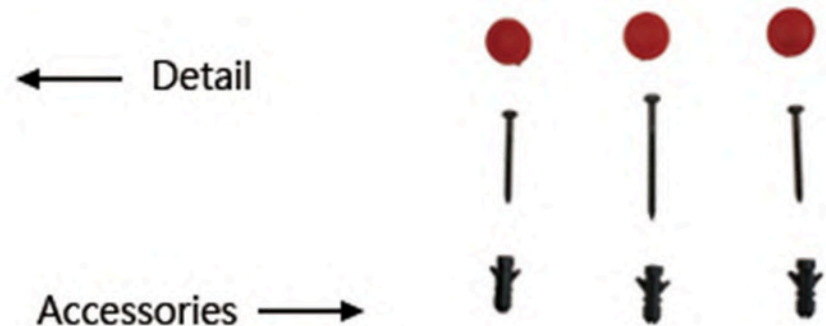
Central Distance:	450mm
Depth:	450mm
Height:	850mm
Back Height:	430mm
Off Ground Height:	420mm
Width:	420mm
Structrue Material:	Cast aluminium
Seat Material:	HDPE
Installation:	Ground mounted
MOQ:	100seats



HDPE-01



Product Name:	Low Backrest Stadium Seat
Model:	HDPE-01
Seat depth:	420mm
Seat width:	420mm
Height:	180mm
Weight:	1.7kg
Material:	Heavy-duty Polyethylene (HDPE)
Process method:	Blow molding technology and hollow structure
Standard color:	Blue, Red, Yellow, Green
Customized color:	Accepted, for a customized color, MOQ is 500pcs
Installation method:	Directly install at cement, plywood board or metal board.



HDPE-02



Product Name: Middle Backrest Stadium Seat

Model: HDPE-02

Seat depth: 450mm

Seat width: 430mm

Height: 310mm

Weight: 2kg

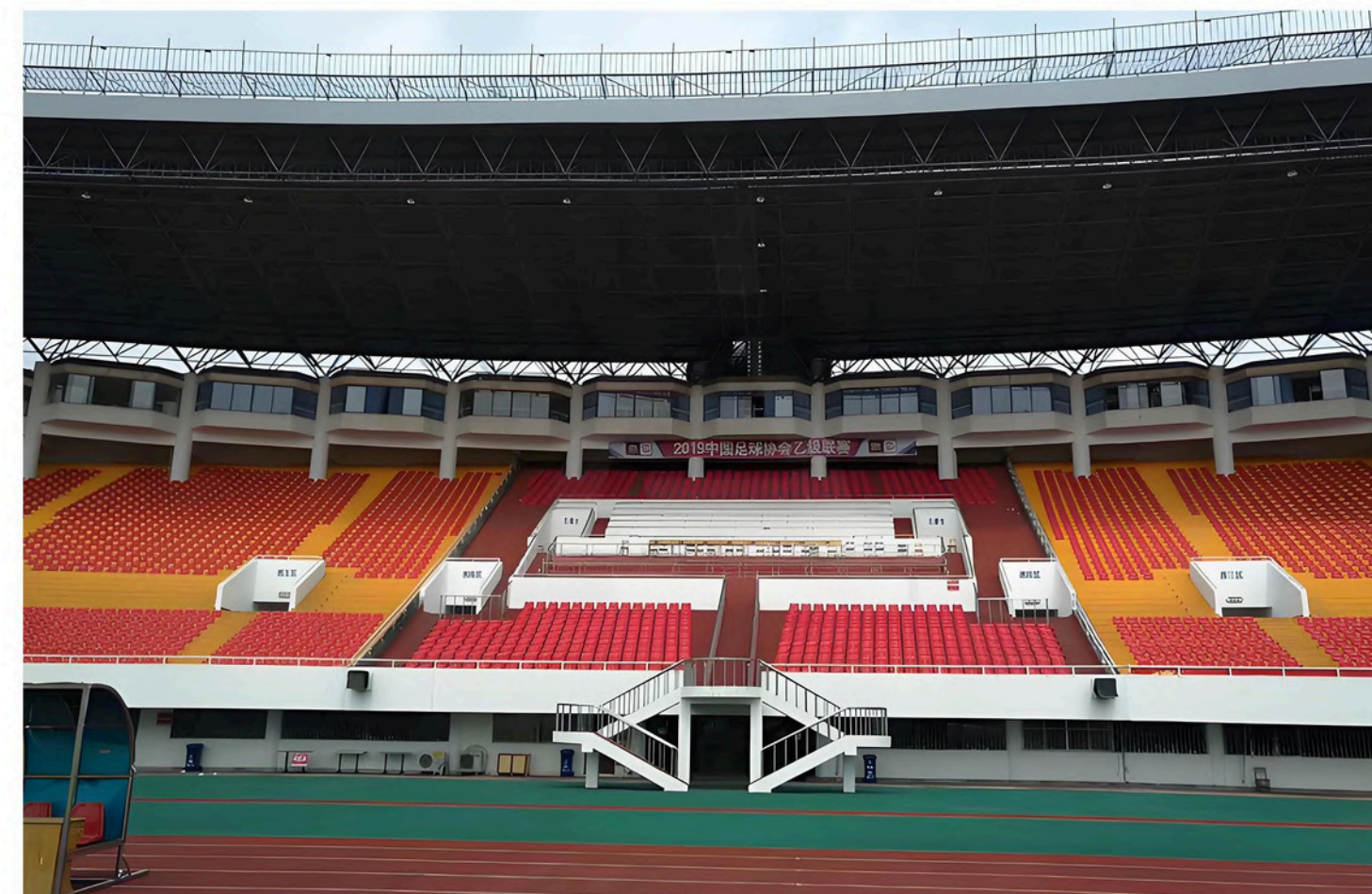
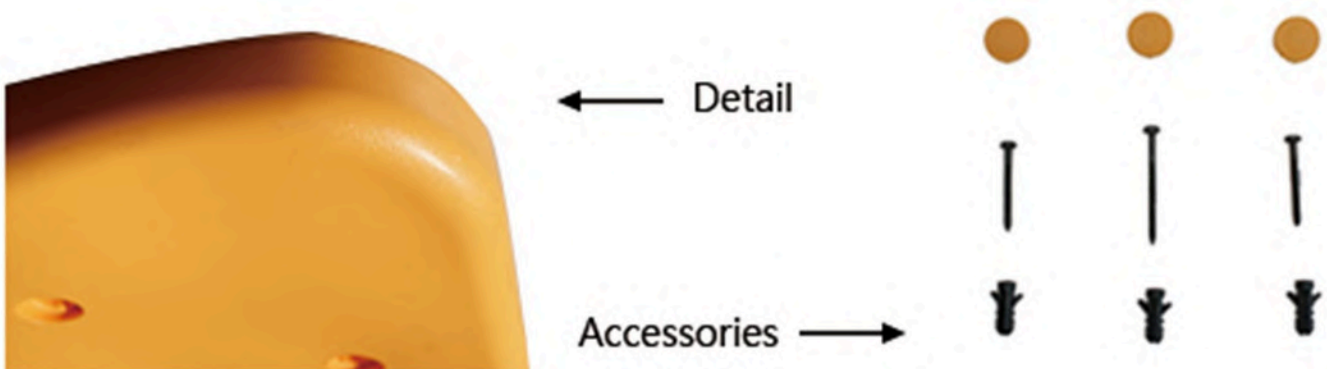
Material: Heavy-duty Polyethylene (HDPE)

Process method: Blow molding technology and hollow structure

Standard color: Blue, Red, Yellow, Green

Customized color: Accepted, for a customized color, MOQ is 500pcs

Installation: Directly install at cement, plywood board or metal board.





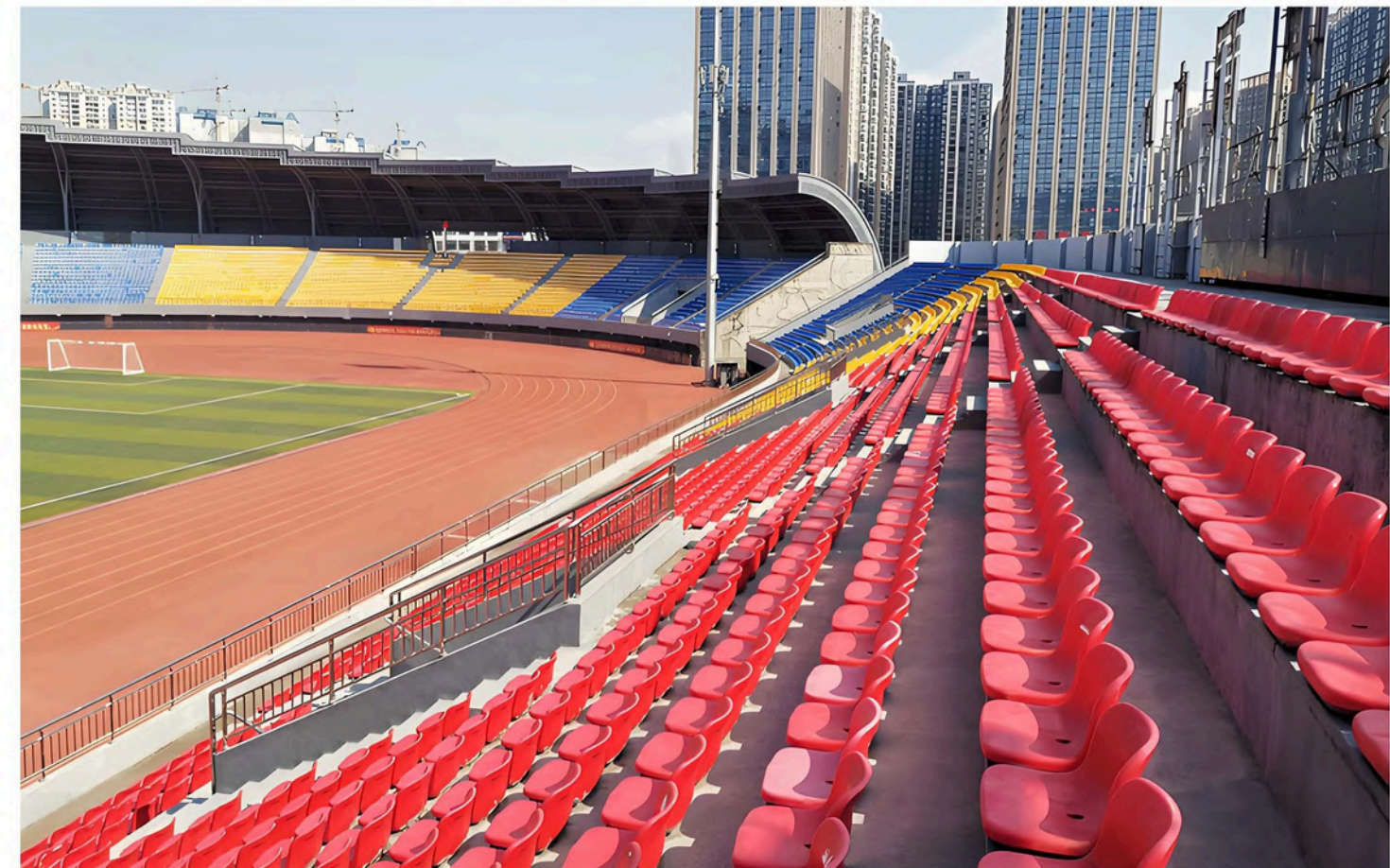
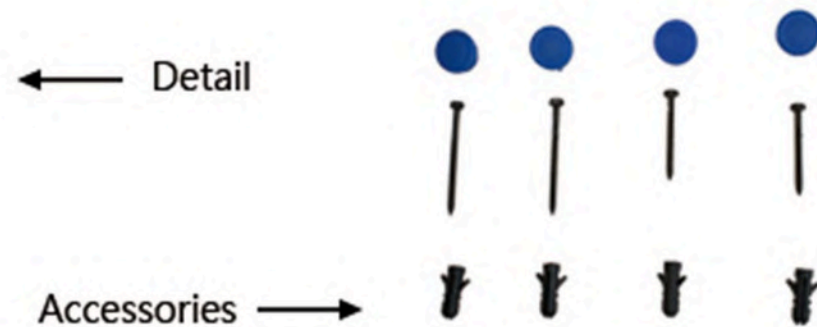
Product Name:	Middle Backrest Stadium Seat
Model:	HDPE-02A
Depth:	450mm
Height:	670mm
Back Height:	310mm
Off Ground Height :	420mm
Width:	430mm
Seats C/C:	500mm
Structrue Material:	Cast aluminum and galvanized iron pipe
Seat Material:	HDPE
Process Method:	Blow molding technology and hollow structure
Installation:	Ground mounted



HDPE-03



Product Name:	High Backrest Stadium Seat
Model:	HDPE-03
Seat depth:	490mm
Seat width:	430mm
Height:	400mm
Weight:	2.7kg
Material:	Heavy-duty Polyethylene (HDPE)
Process method:	Blow molding technology and hollow structure
Standard color:	Blue, Red, Yellow, Green
Customized color:	Accepted, for a customized color, MOQ is 500pcs
Installation method:	Directly install at cement, plywood board or metal board.





Product Name:	High Backrest Stadium Seat
Model:	HDPE-03A
Depth:	490mm
Height:	760mm
Back Height:	400mm
Off Ground Height:	420mm
Width:	430mm
Seats C/C:	500mm
Structrue Material:	Cast aluminum and galvanized iron pipe
Seat Material:	HDPE
Process Method:	Blow molding technology and hollow structure
Installation:	Ground mounted



MS-01



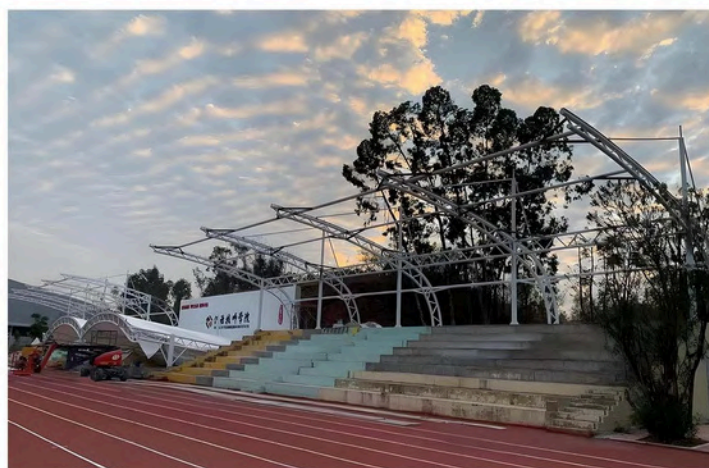
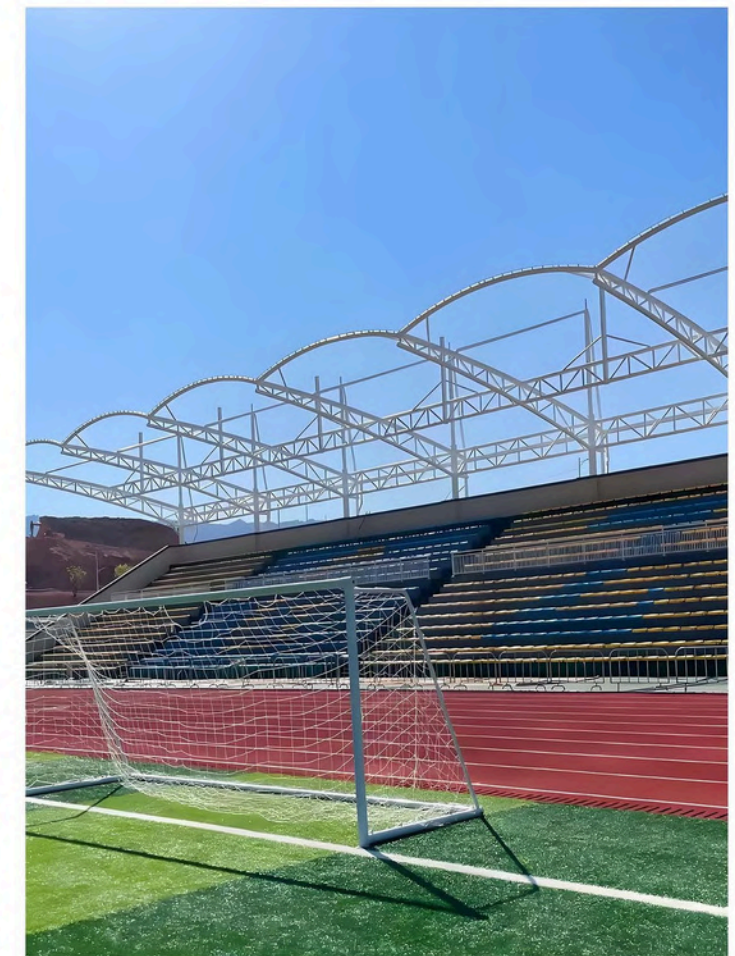
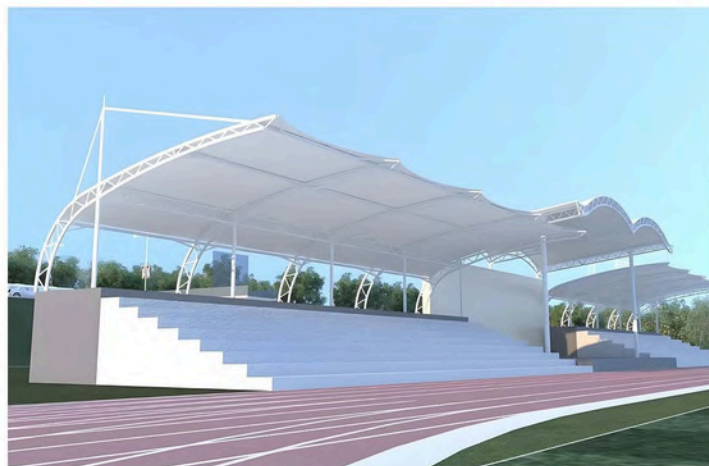
Sultan



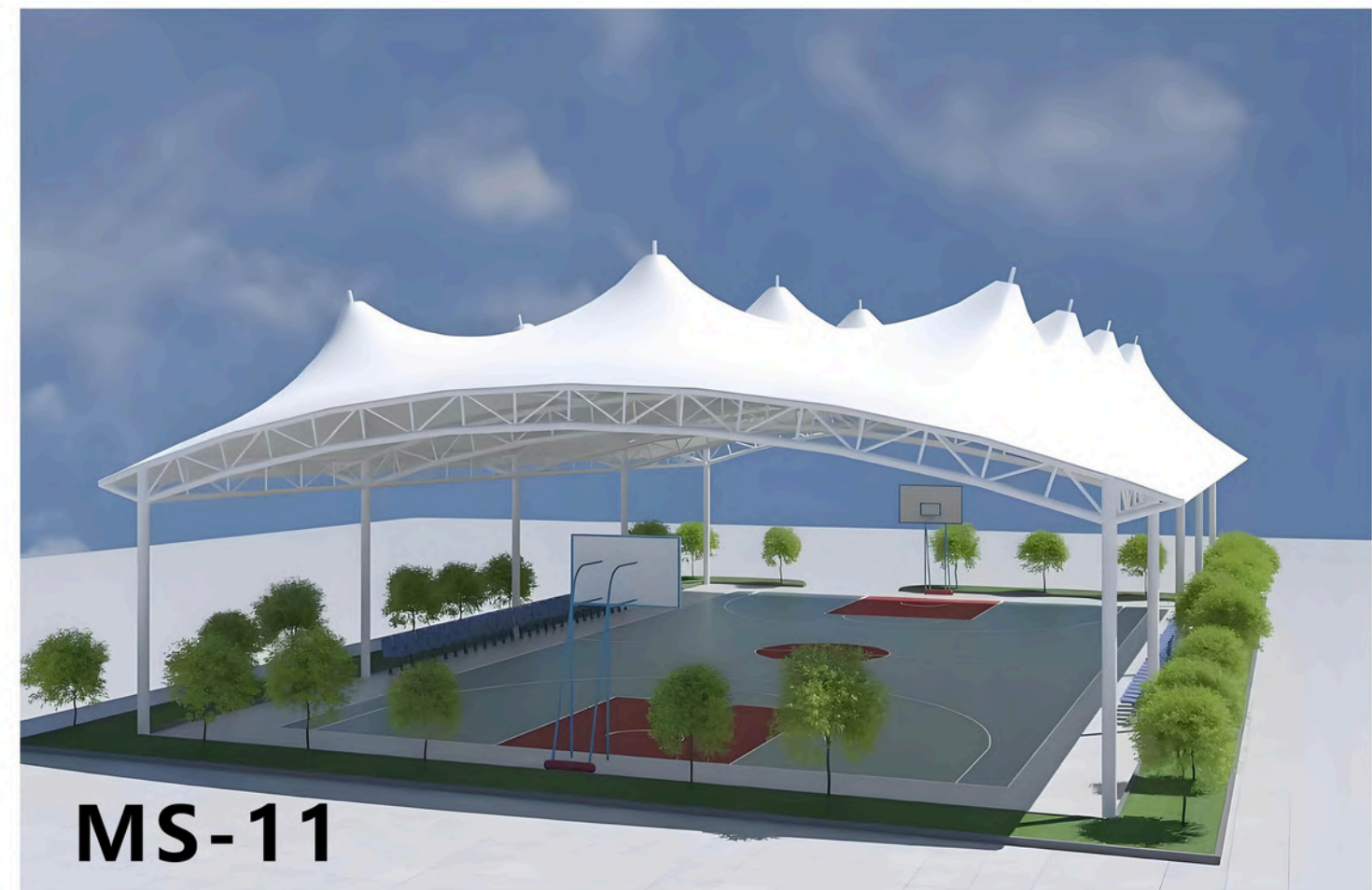
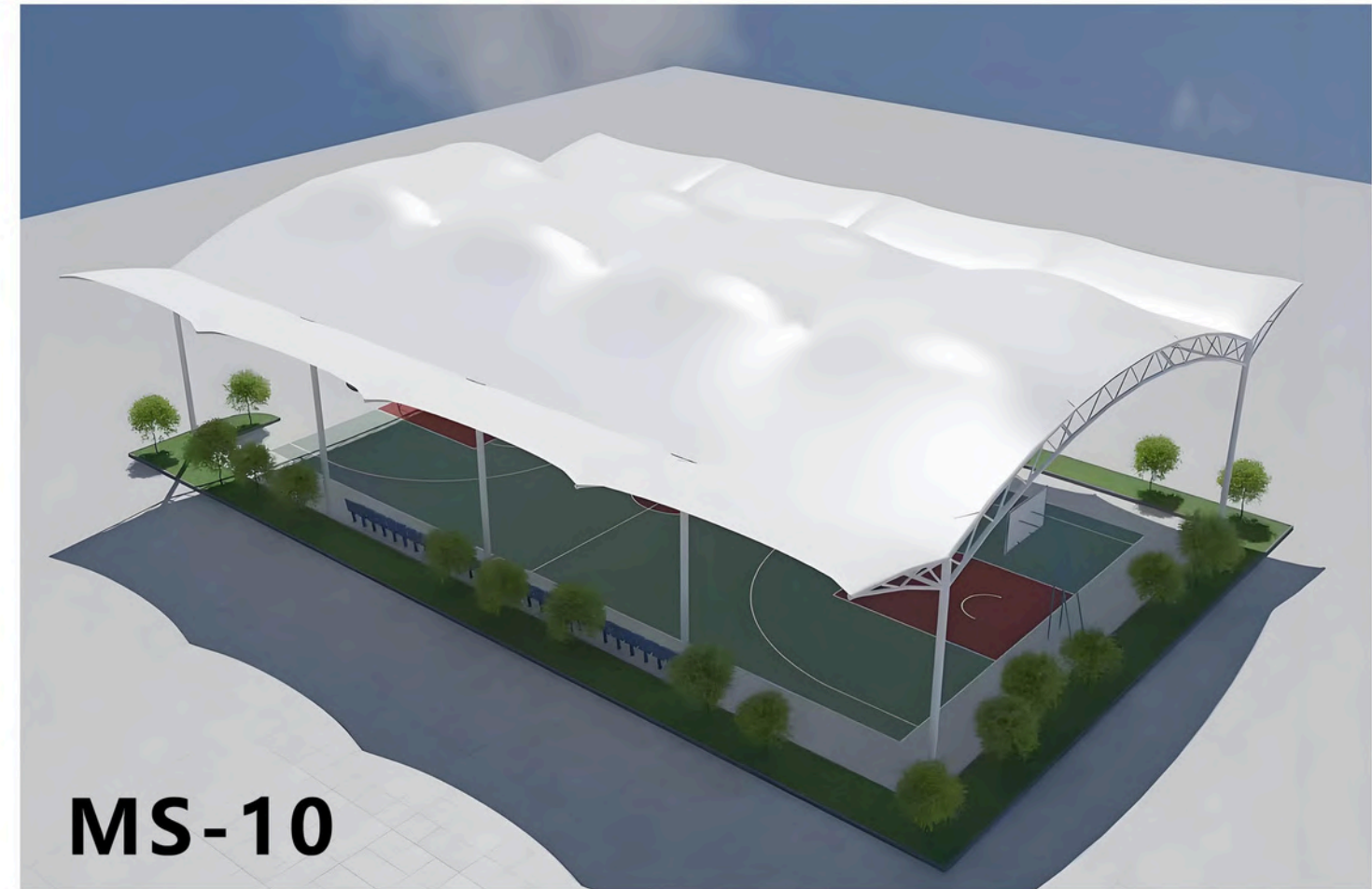
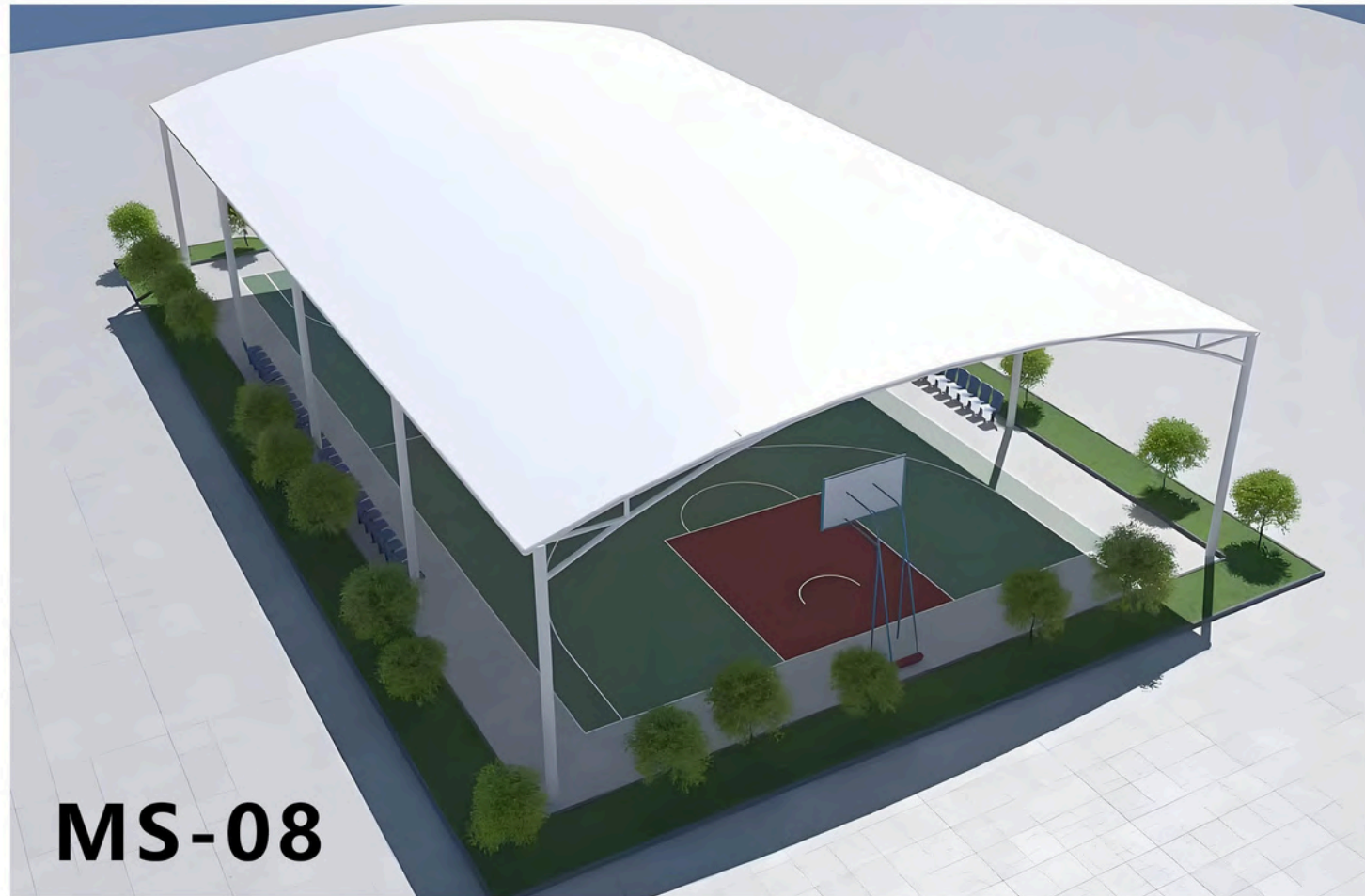
Stadium Membrane Structure

- ▶ **Material Characteristics:**
Utilizes polymer materials such as polyester fiber (PVC/PVDF) or fiberglass (PTFE).
- ▶ **Energy Efficiency Advantages:**
Light transmittance ranges from 5% to 40%, with coatings or color adjustments to soften light and minimize glare.
- ▶ **Design Flexibility:**
Flexible materials enable streamlined, curved, or irregular shapes, achieving dynamic aesthetics through tensioning techniques.
- ▶ **Environmental Adaptability:**
UV-resistant, corrosion-resistant, and mold-proof, suitable for temperatures from -40°C to 70°C.
PTFE membranes last over 25 years, while PVDF membranes last approximately 15 years.
- ▶ **Low Maintenance Costs:**
Surface coatings (e.g., PVDF) feature a "lotus leaf effect," allowing rainwater to wash away dust and pollutants, reducing cleaning frequency.
- ▶ **Engineering Efficiency:**
Factory prefabrication + on-site assembly reduces construction time by over 50%.
Structures can be fully disassembled and relocated, ideal for temporary venues or mobile facilities.
- ▶ **Sustainability Features:**
Recyclable materials and light-transmitting properties lower energy consumption.
Some membranes are LEED-certified, aligning with low-carbon building trends.
- ▶ **Flame Retardancy Standards:**
B1-grade fire-resistant materials (flame-retardant), with some achieving Class A (non-combustible).
Structural designs meet safety requirements for strong winds and snow loads.
- ▶ **Functional Extensions:**
Multi-layer membranes or added insulation/acoustic layers enable noise reduction (e.g., concert halls) and thermal insulation (e.g., eco-buildings).
- ▶ **Cost Benefits:**
Higher initial investment compared to traditional materials, but overall savings in structural support, lighting, and maintenance ensure superior life-cycle cost-effectiveness.
- ▶ **Applications:**
Large Public Structures: Stadium roofs, airport terminals.
Commercial & Landscape: Shopping mall atriums, park sunshades.
Emergency & Temporary Facilities: Post-disaster temporary hospitals, expo pavilions.

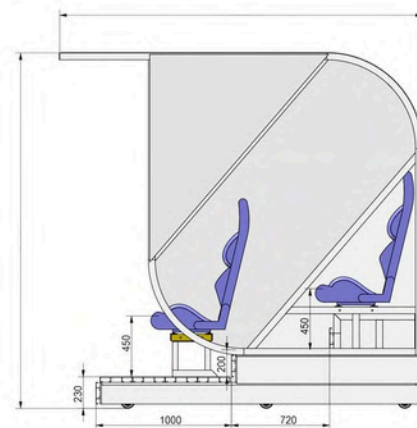
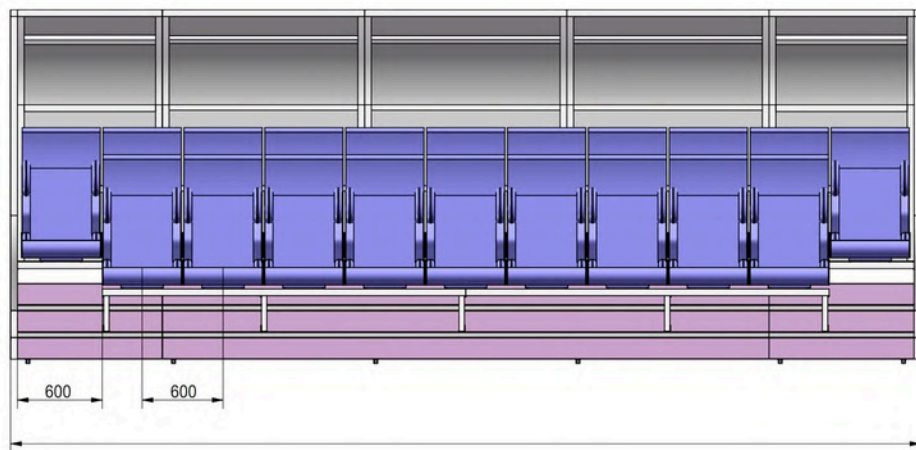
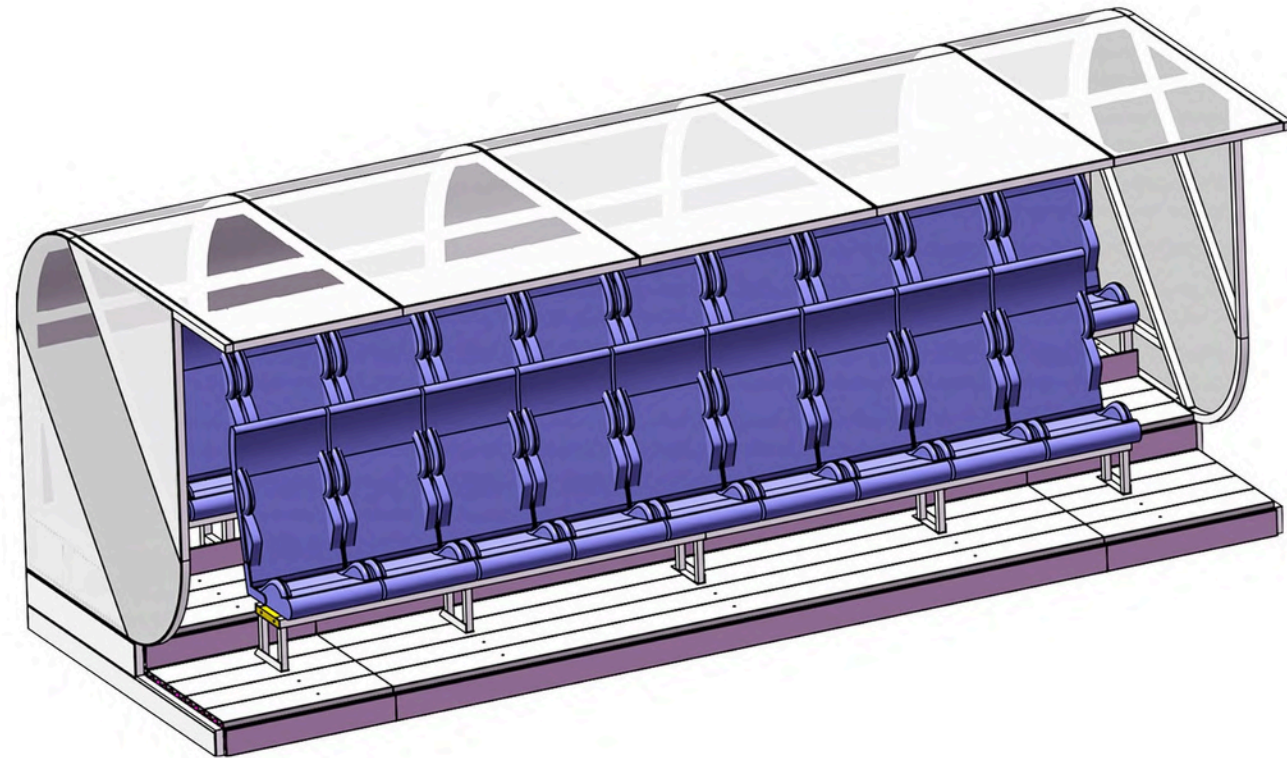




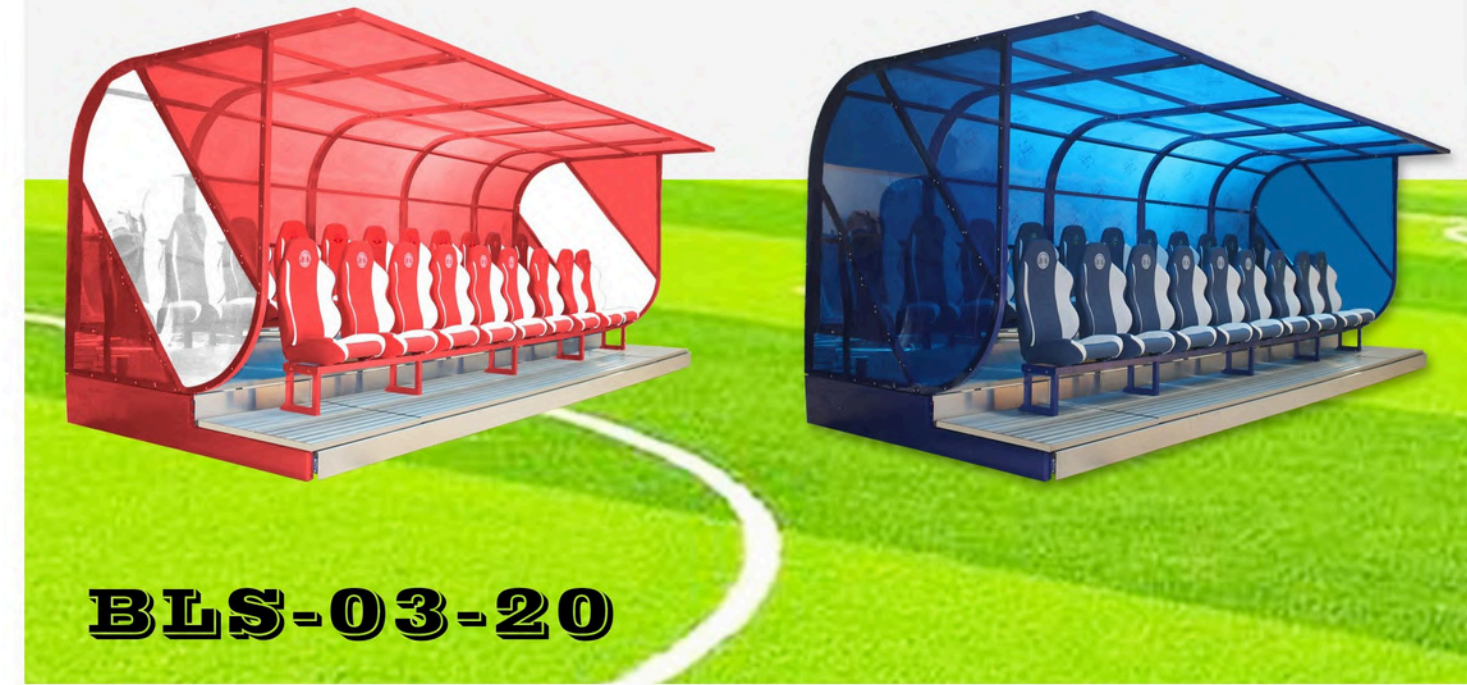








SOCCER STADIUM BENCH

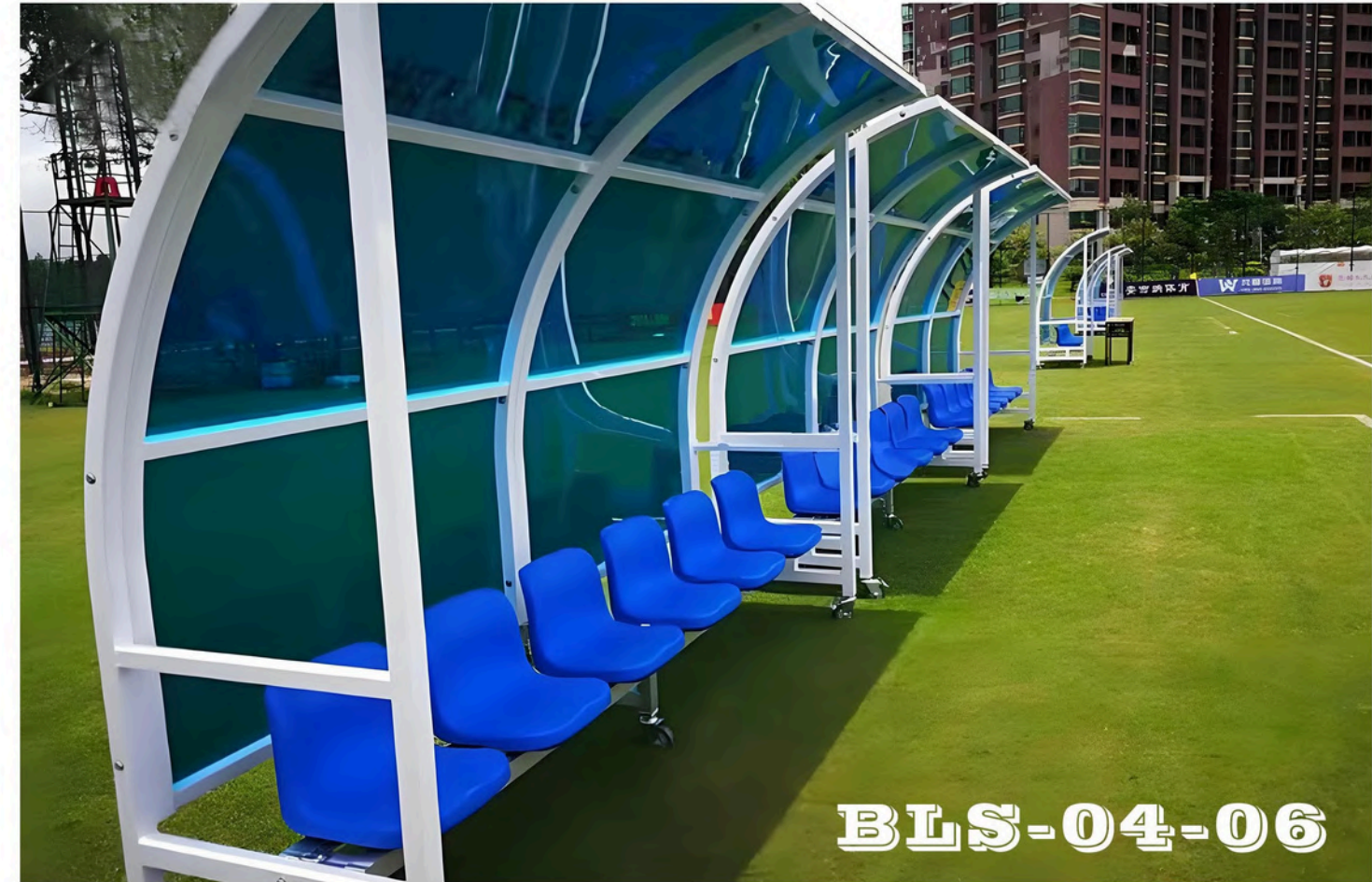
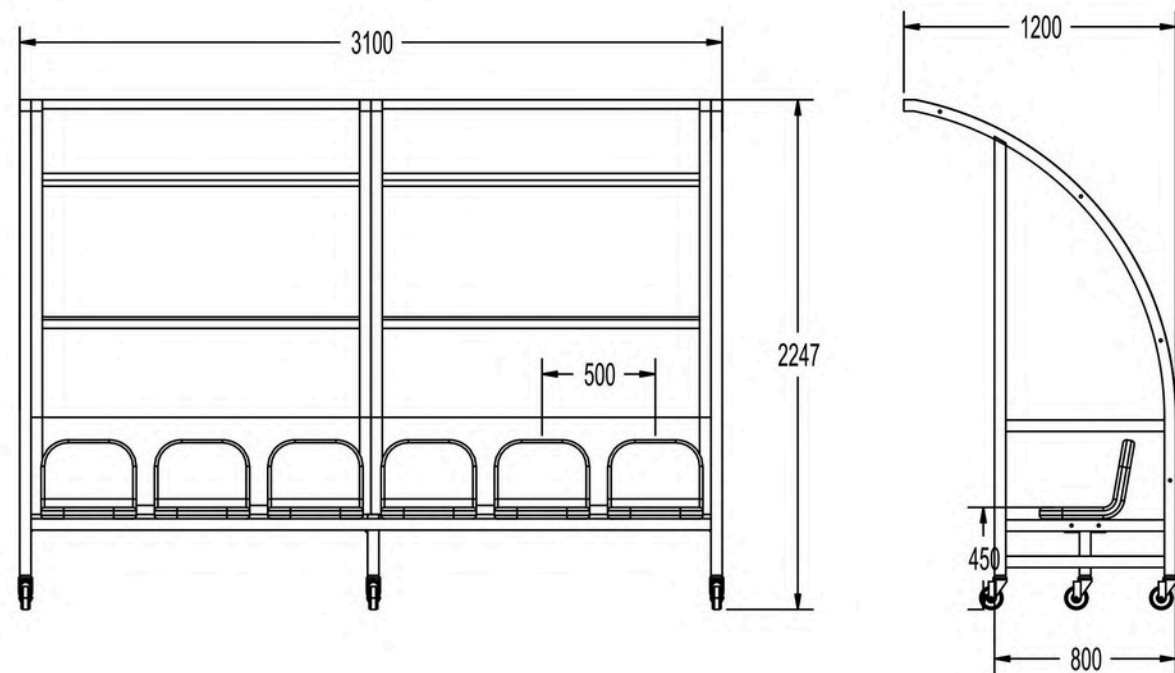
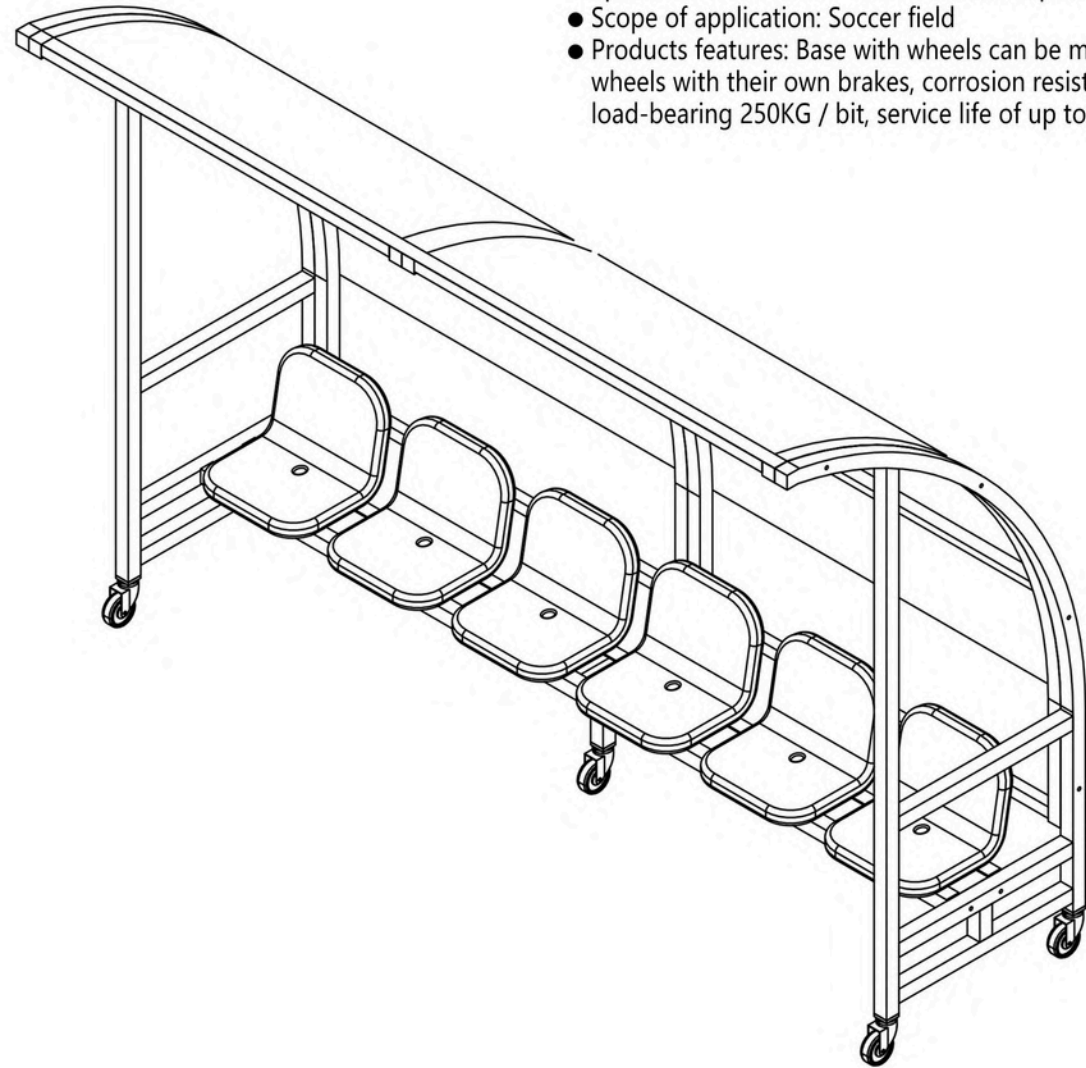


BLS-03-20

- Material: All aluminum alloy, surface electrostatic spraying, temperature baking paint. Assembled structure, 3mm endurance board. 20 seats
- Specifications: 6750x2678x2623mm, seat pitch 600mm
- Scope of application: Soccer field
- Products features: Base with wheels can be moved at will to change, wheels with their own brakes, corrosion resistance, rust, load-bearing 250KG / bit, service life of up to ten years.
- Once placed in position, the wheel brakes should be applied to act as a hold.
- In the event of a typhoon put the product down on the soccer field or push it indoors.
- The seat protector serves as a dustproof and sunproof cover, remove it when in use.
- When cleaning, just rinse with water and wipe clean with a rag.



- Material: All aluminum alloy, surface electrostatic spraying, temperature baking paint. Assembled structure, 3mm endurance board. 6 seats
- Specifications: 3100x2247x1200mm, seat pitch 600mm
- Scope of application: Soccer field
- Products features: Base with wheels can be moved at will to change, wheels with their own brakes, corrosion resistance, rust, load-bearing 250KG / bit, service life of up to ten years.

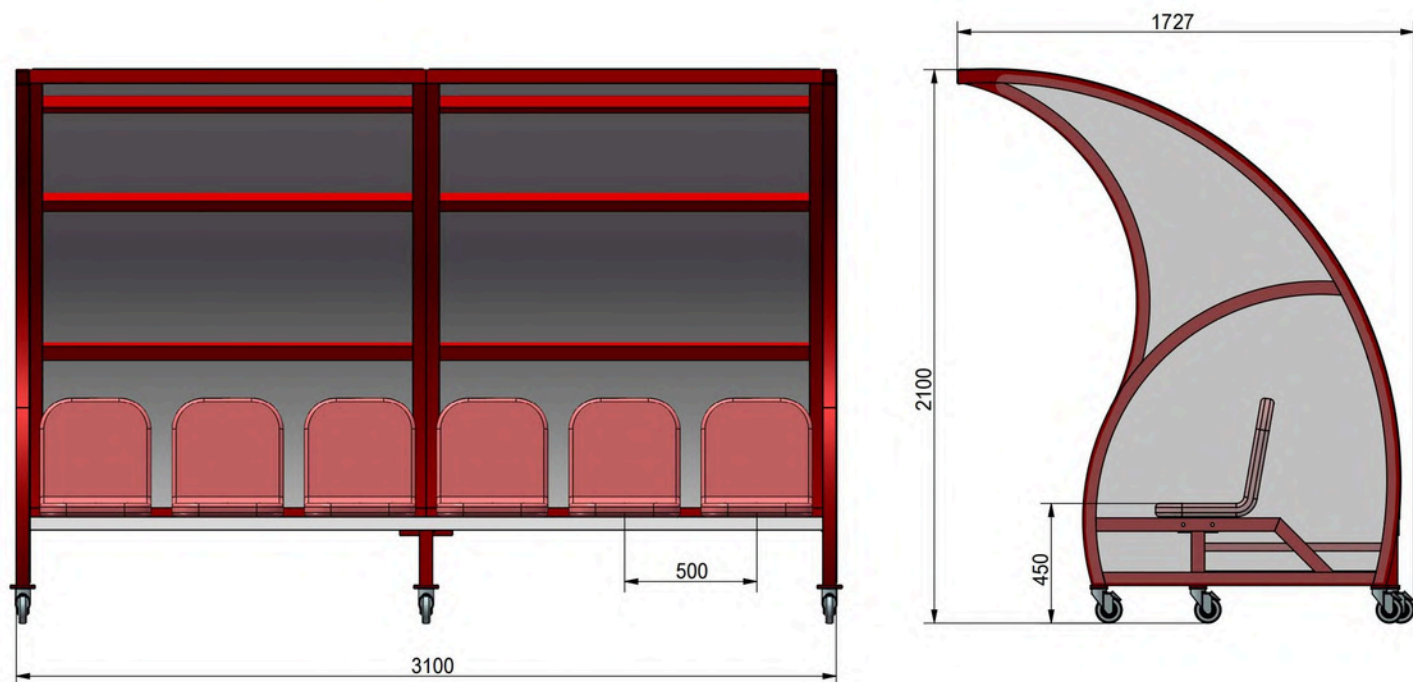
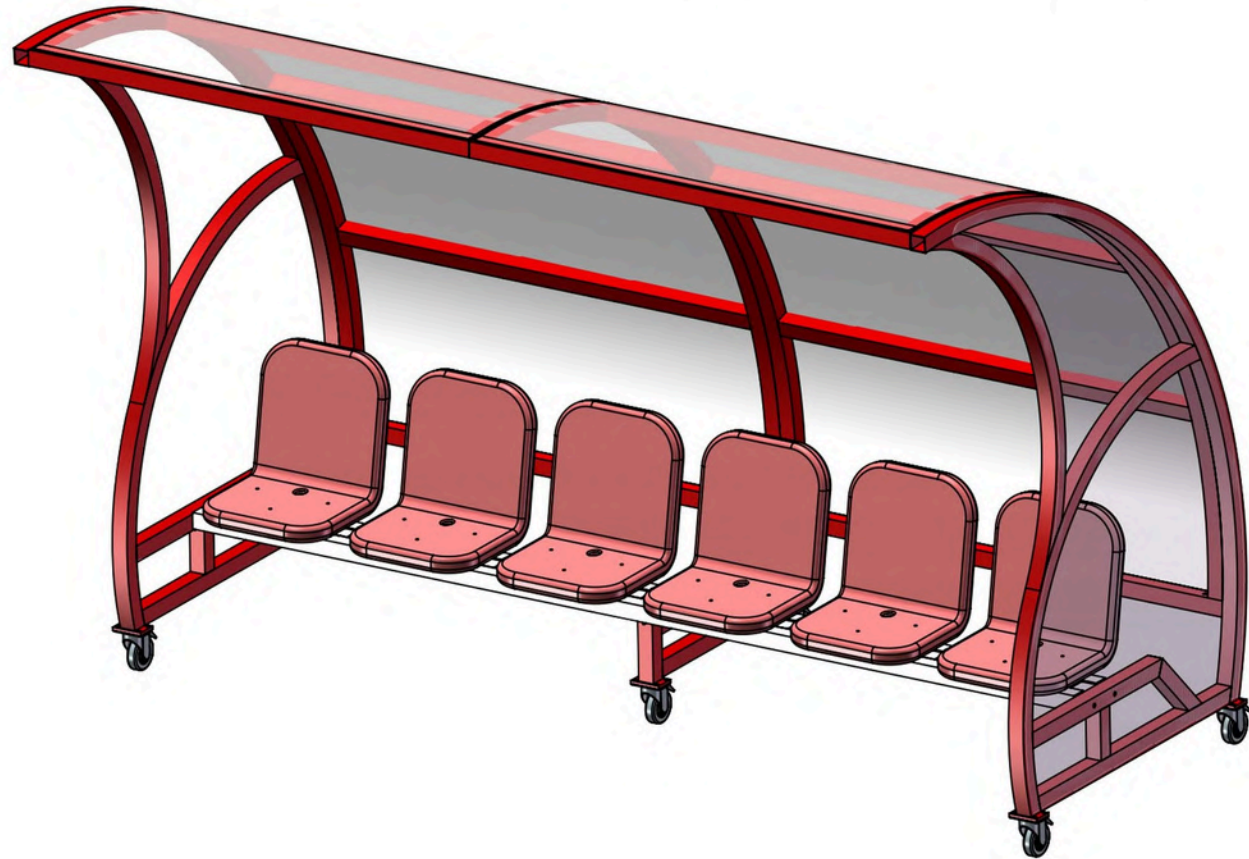


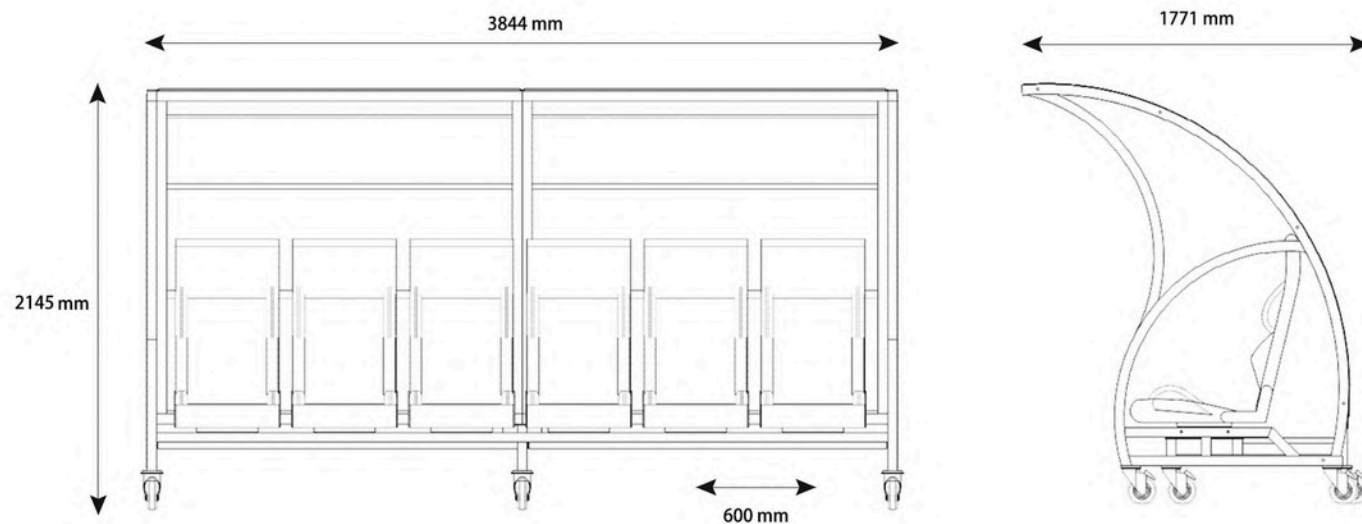
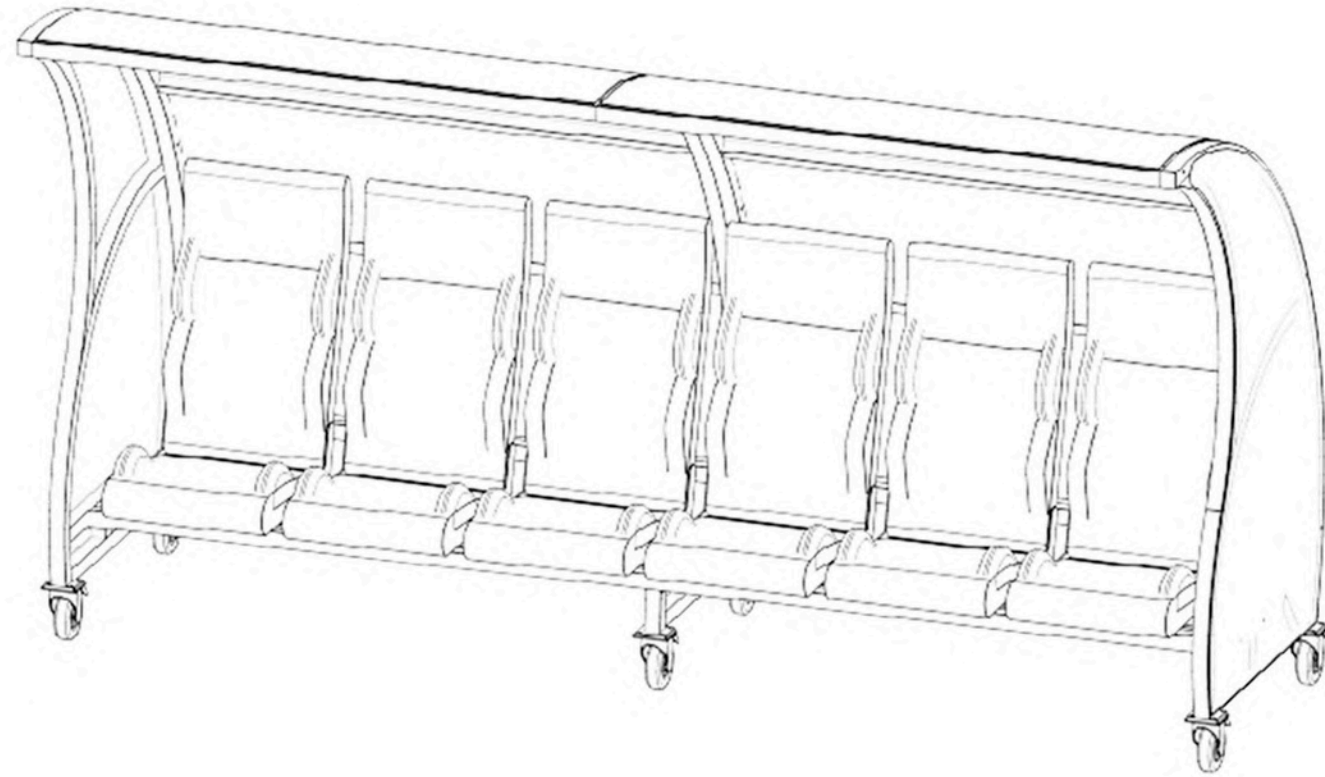
BLS-04-06



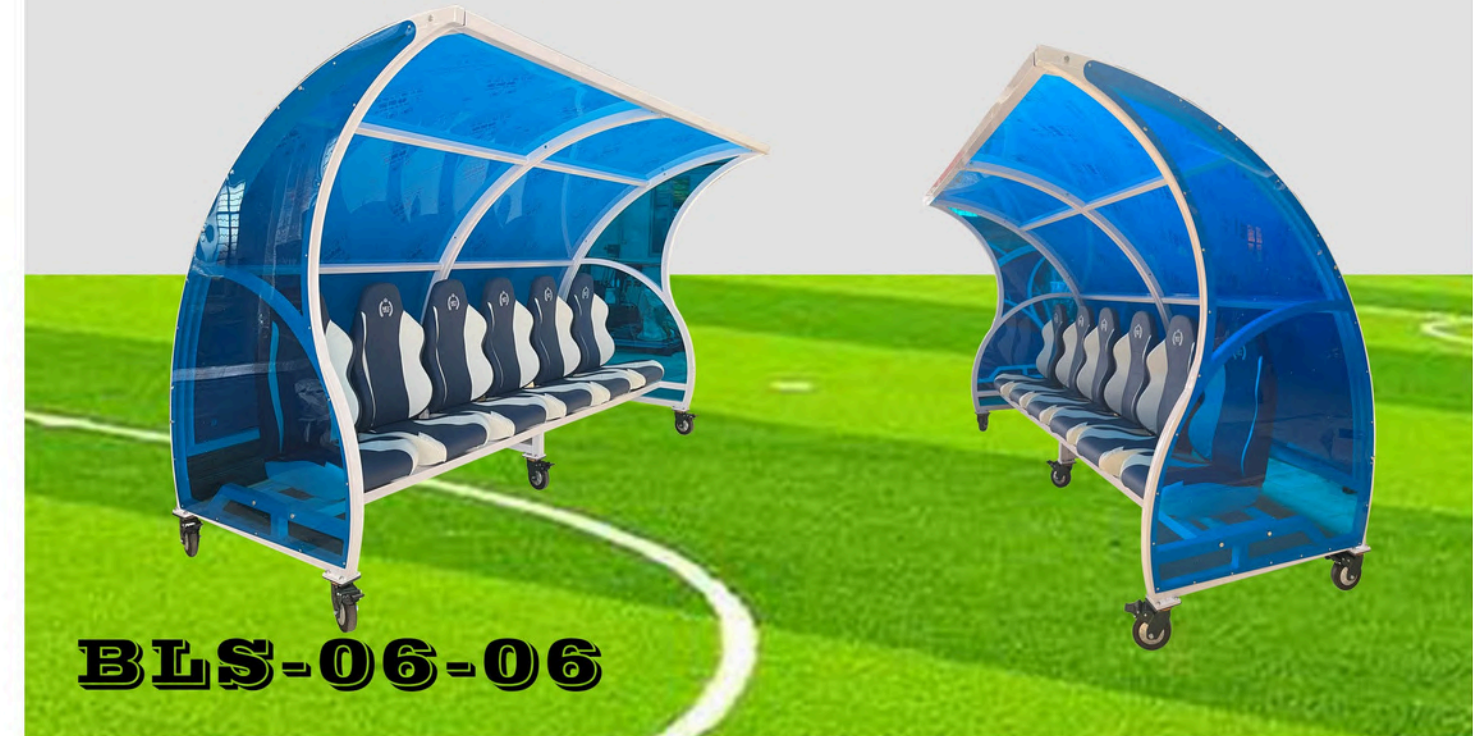
BLS-04-04

- Material: All aluminum alloy, surface electrostatic spraying, temperature baking paint. Assembled structure, 3mm endurance board. 6 seats
- Specifications: 3100x2100x1727mm, seat pitch 600mm
- Scope of application: Soccer field
- Products features: Base with wheels can be moved at will to change, wheels with their own brakes, corrosion resistance, rust, load-bearing 250KG / bit, service life of up to ten years.



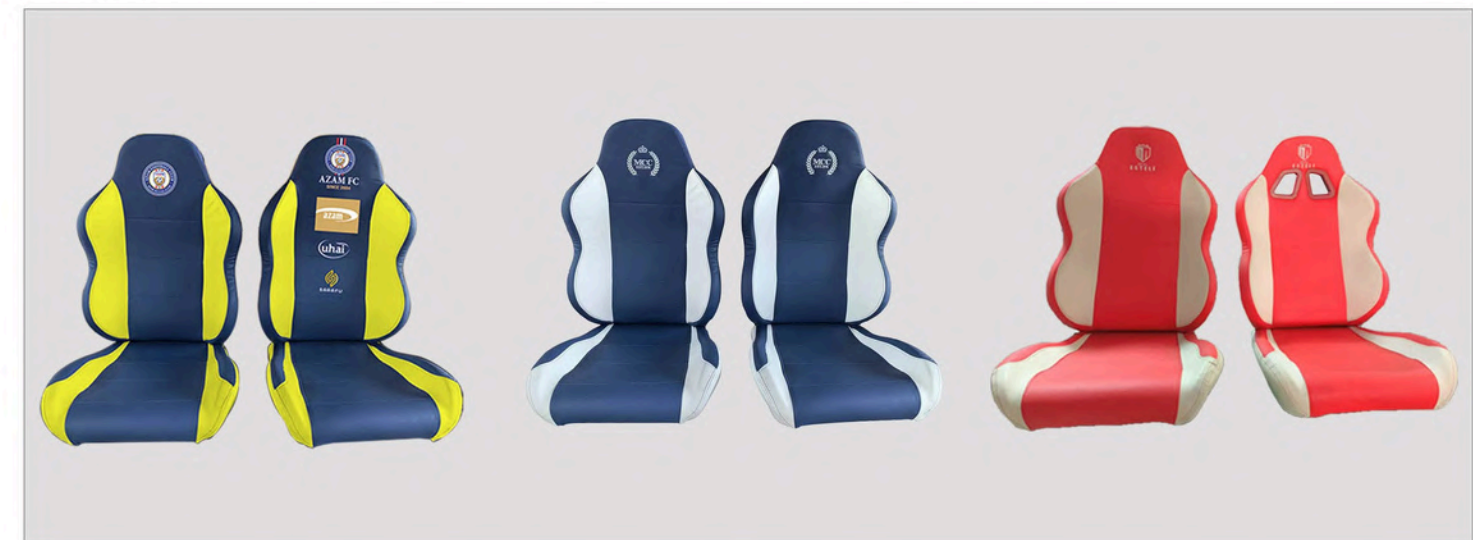


SOCCER STADIUM BENCH

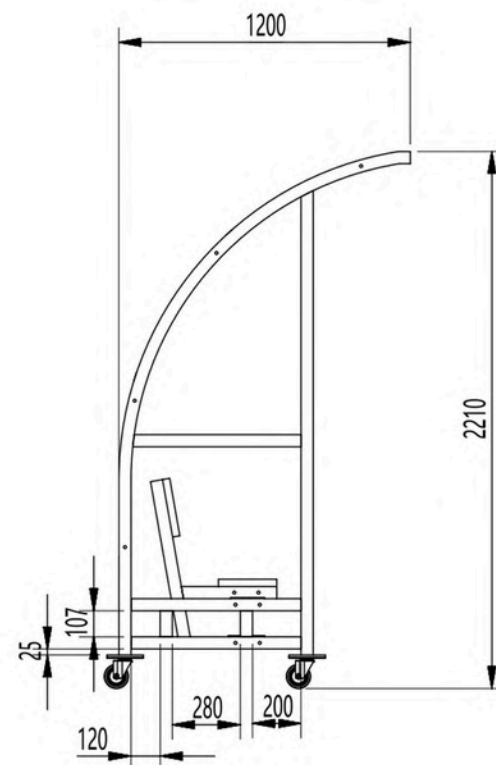
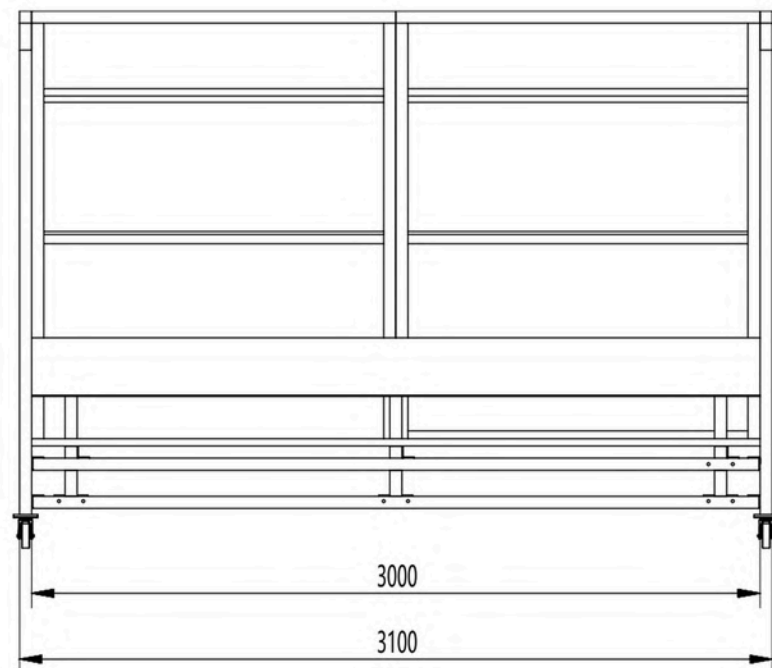


BLS-06-06

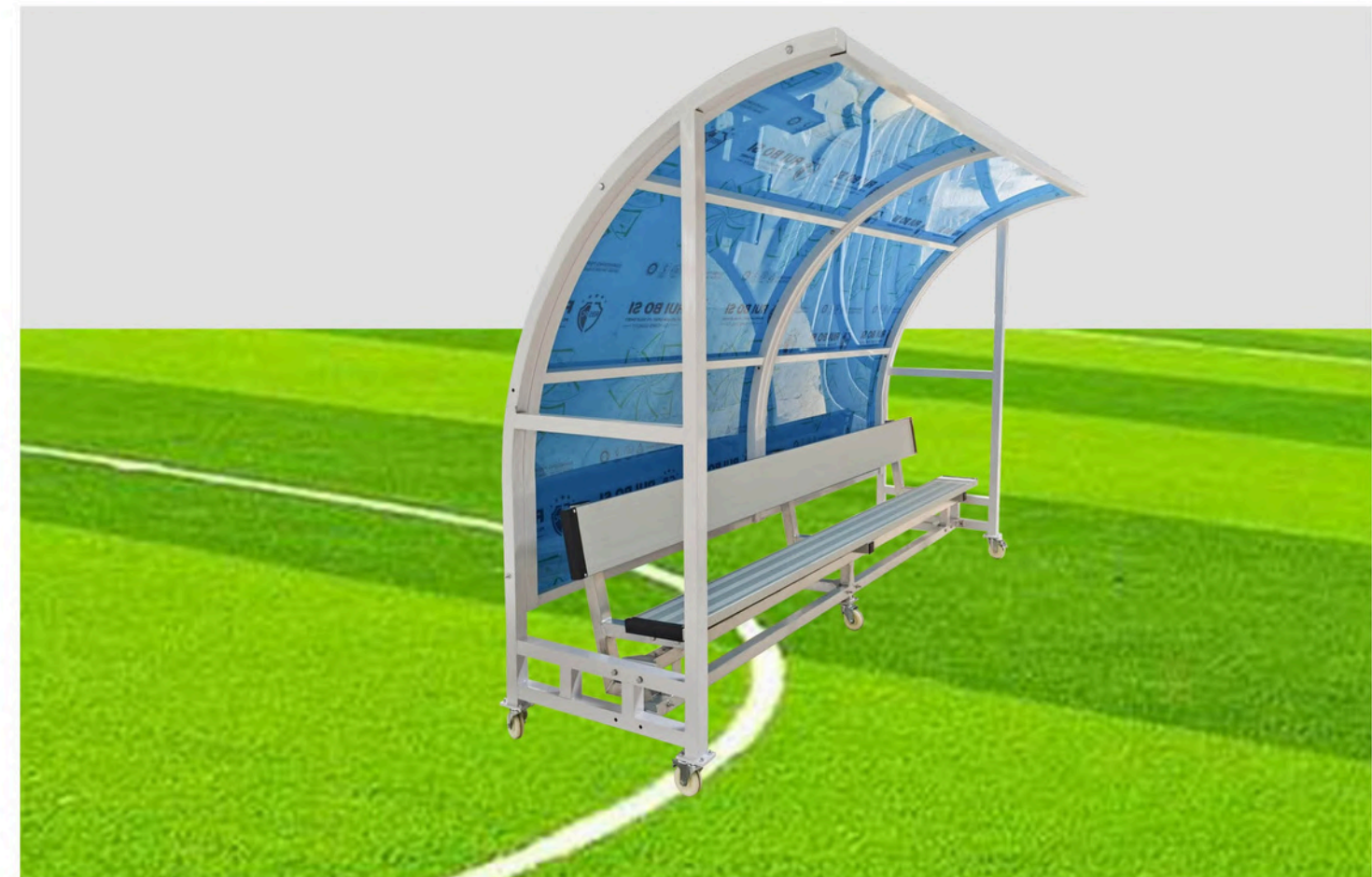
- Material: All aluminum alloy, surface electrostatic spraying, temperature baking paint. Assembled structure, 3mm endurance board. 6 seats
- Specifications: 3844x2145x1771mm, seat pitch 600mm
- Scope of application: Soccer field
- Products features: Base with wheels can be moved at will to change, wheels with their own brakes, corrosion resistance, rust, load-bearing 250KG / bit, service life of up to ten years.
- Once placed in position, the wheel brakes should be applied to act as a hold.
- In the event of a typhoon put the product down on the soccer field or push it indoors.
- The seat protector serves as a dustproof and sunproof cover, remove it when in use.
- When cleaning, just rinse with water and wipe clean with a rag.



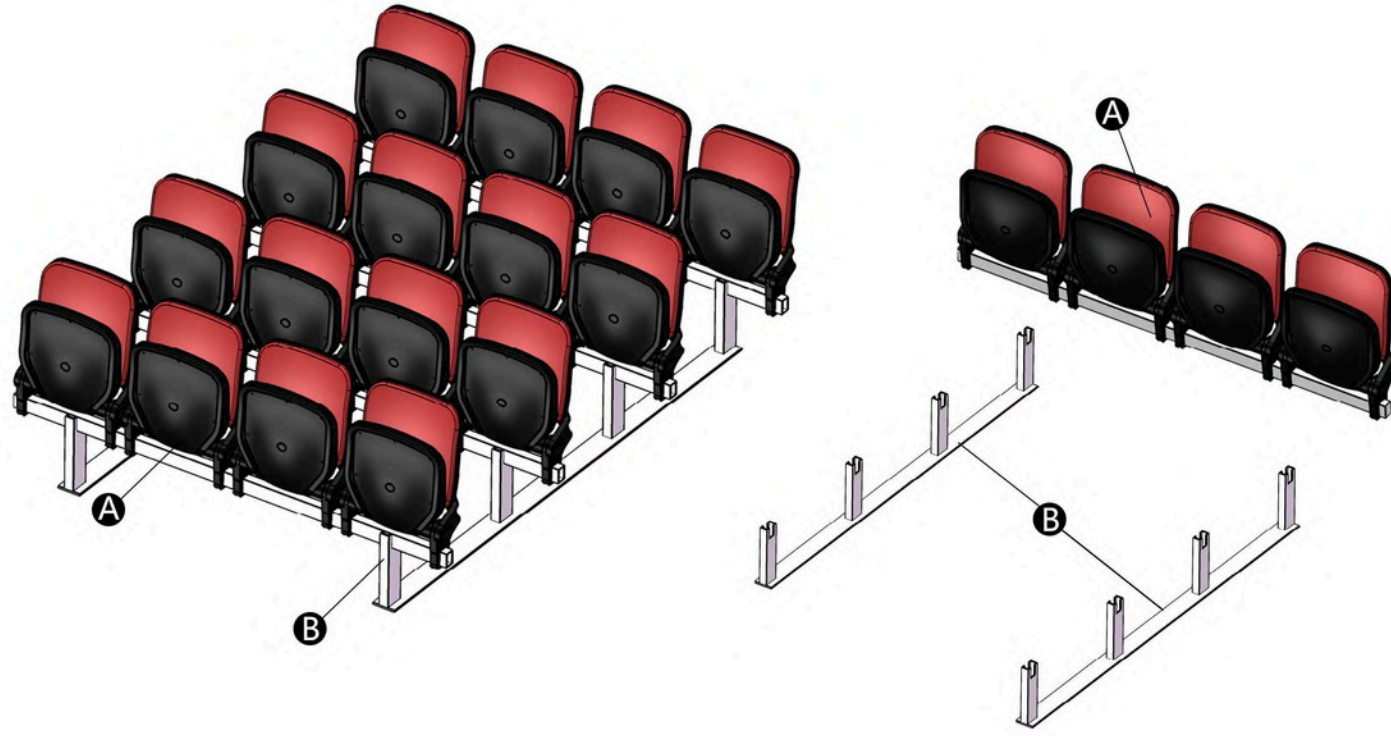
- Material: All aluminum alloy, surface electrostatic spraying, temperature baking paint. Assembled structure, 3mm endurance board. 6 seats
- Specifications: 3100x2100x1200mm, seat pitch 500mm
- Scope of application: Soccer field
- Products features: Base with wheels can be moved at will to change, wheels with their own brakes, corrosion resistance, rust, load-bearing 250KG / bit, service life of up to ten years.



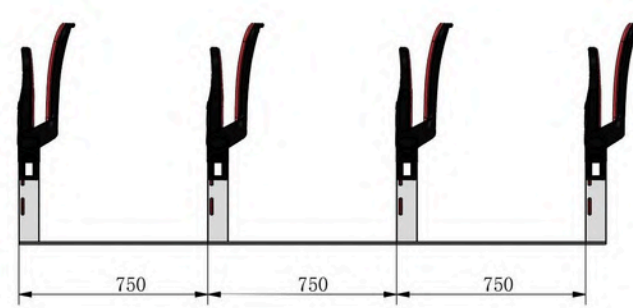
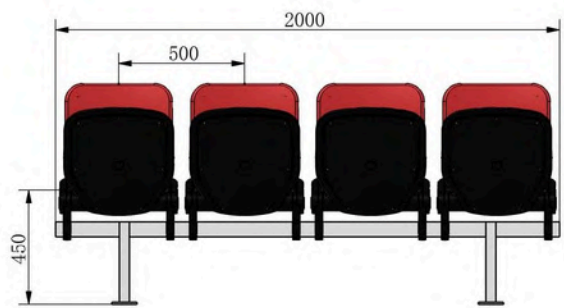
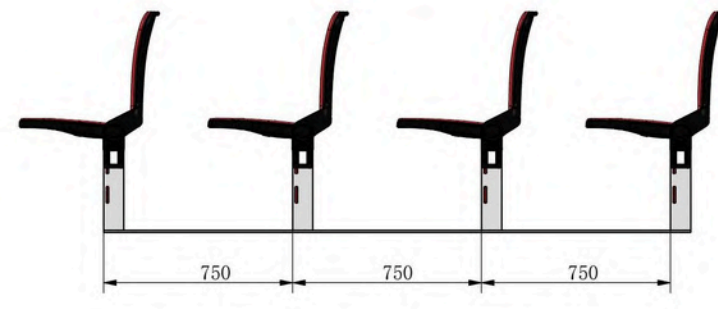
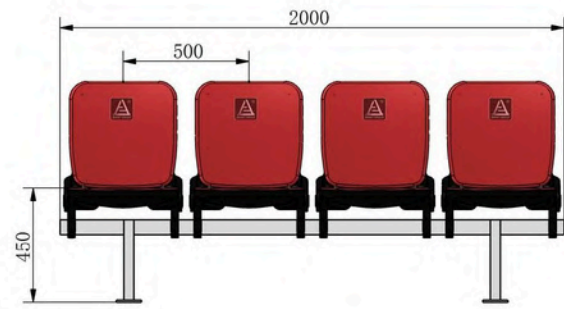
BLS-07-06



Structure View

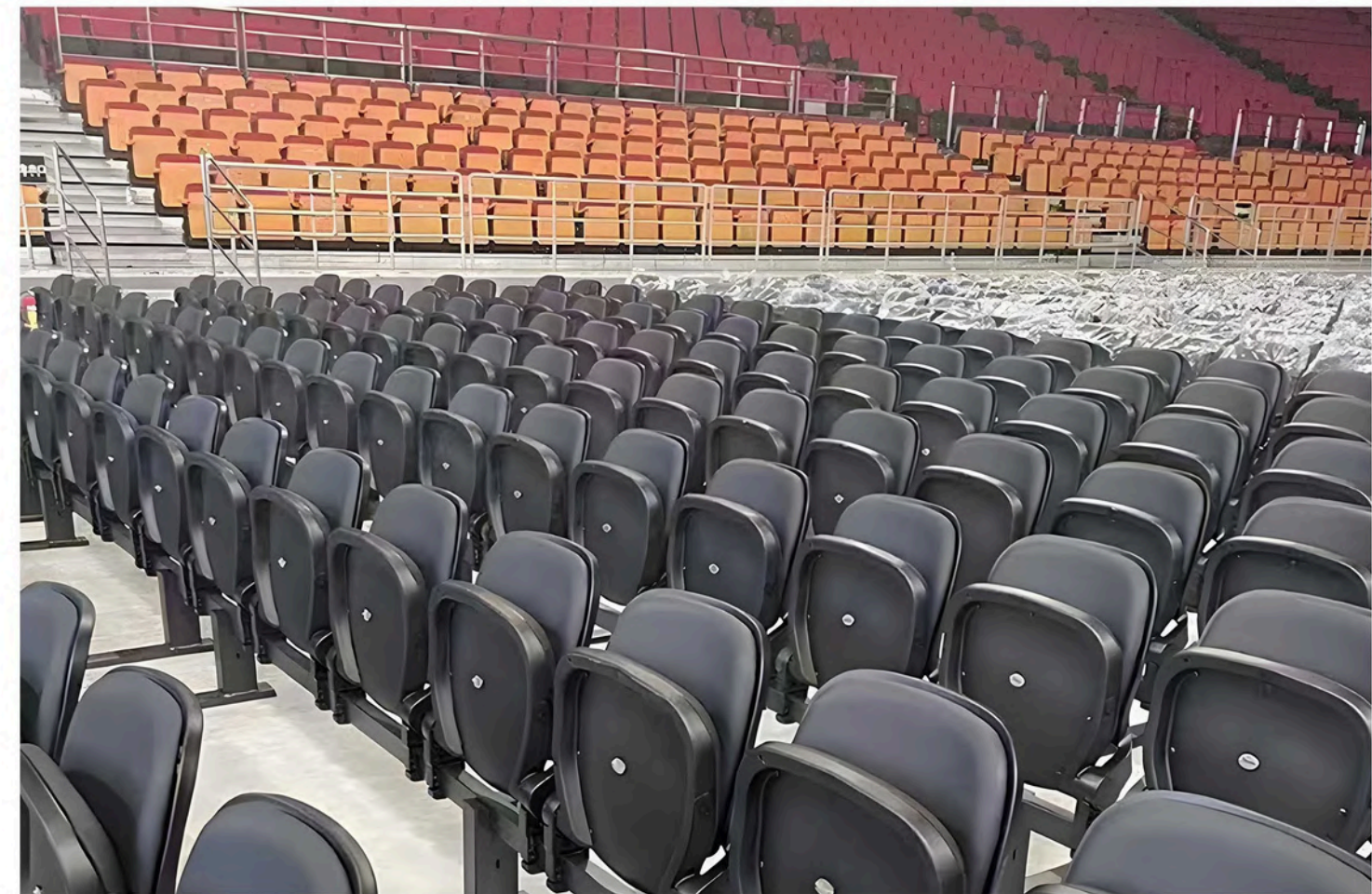
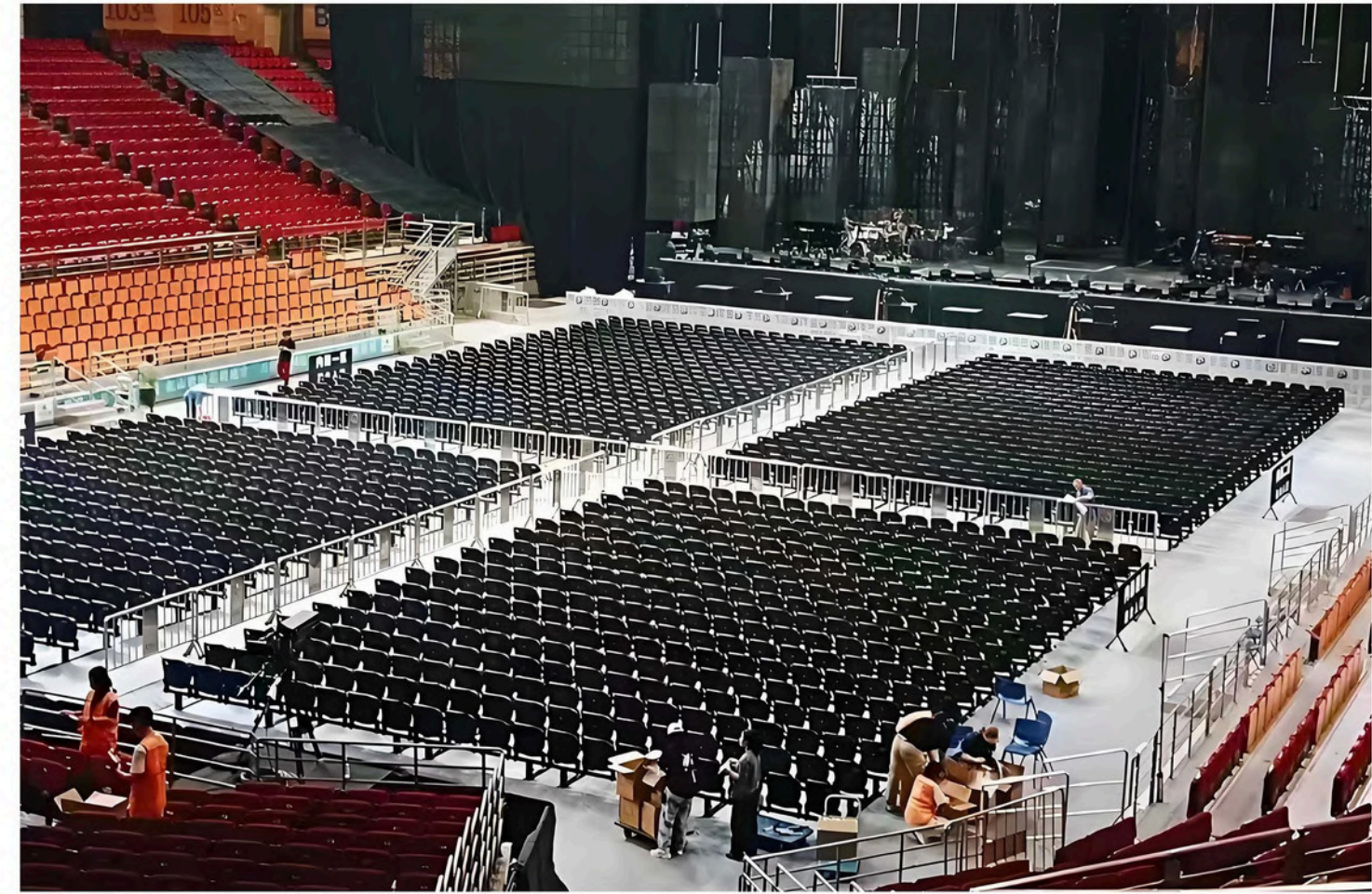


Automatic return of folded seats

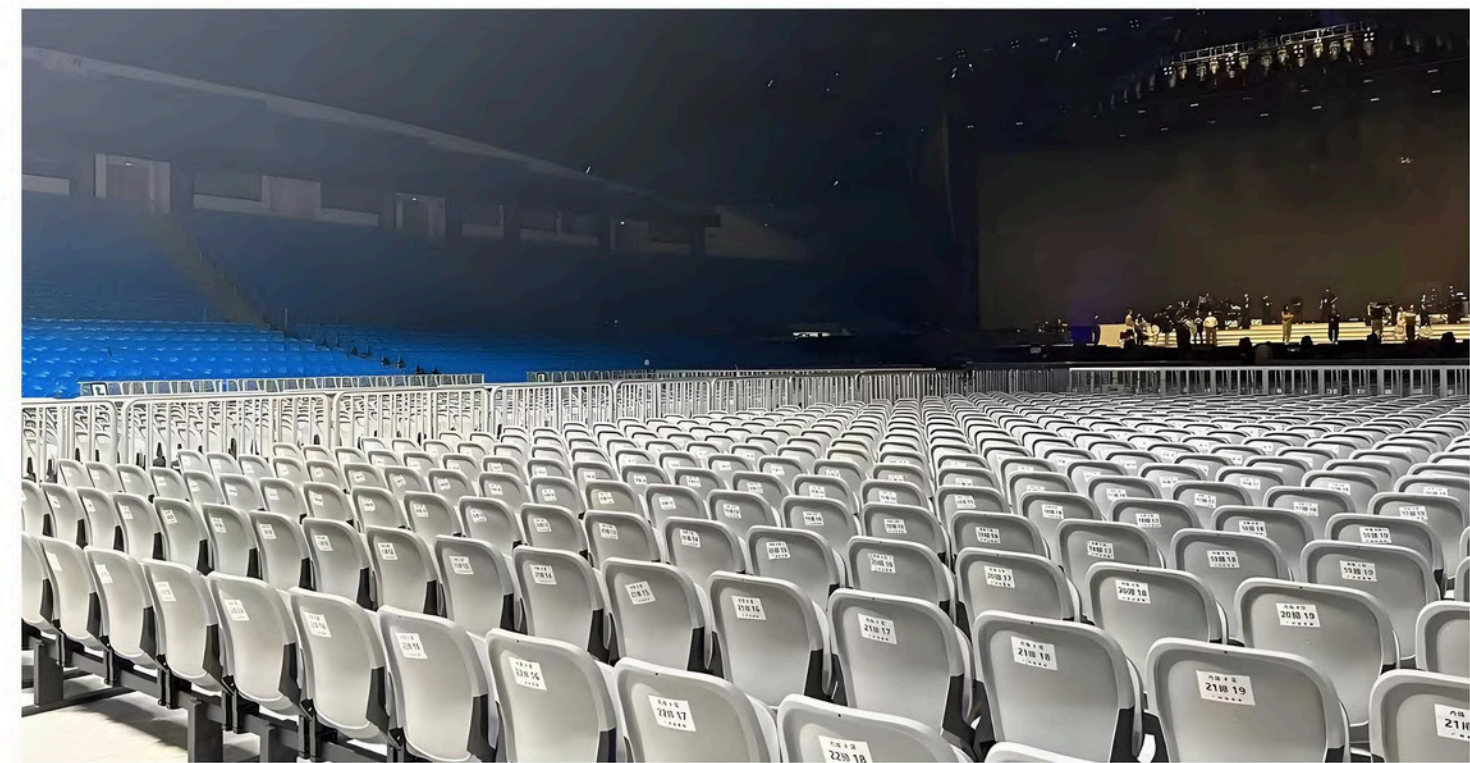
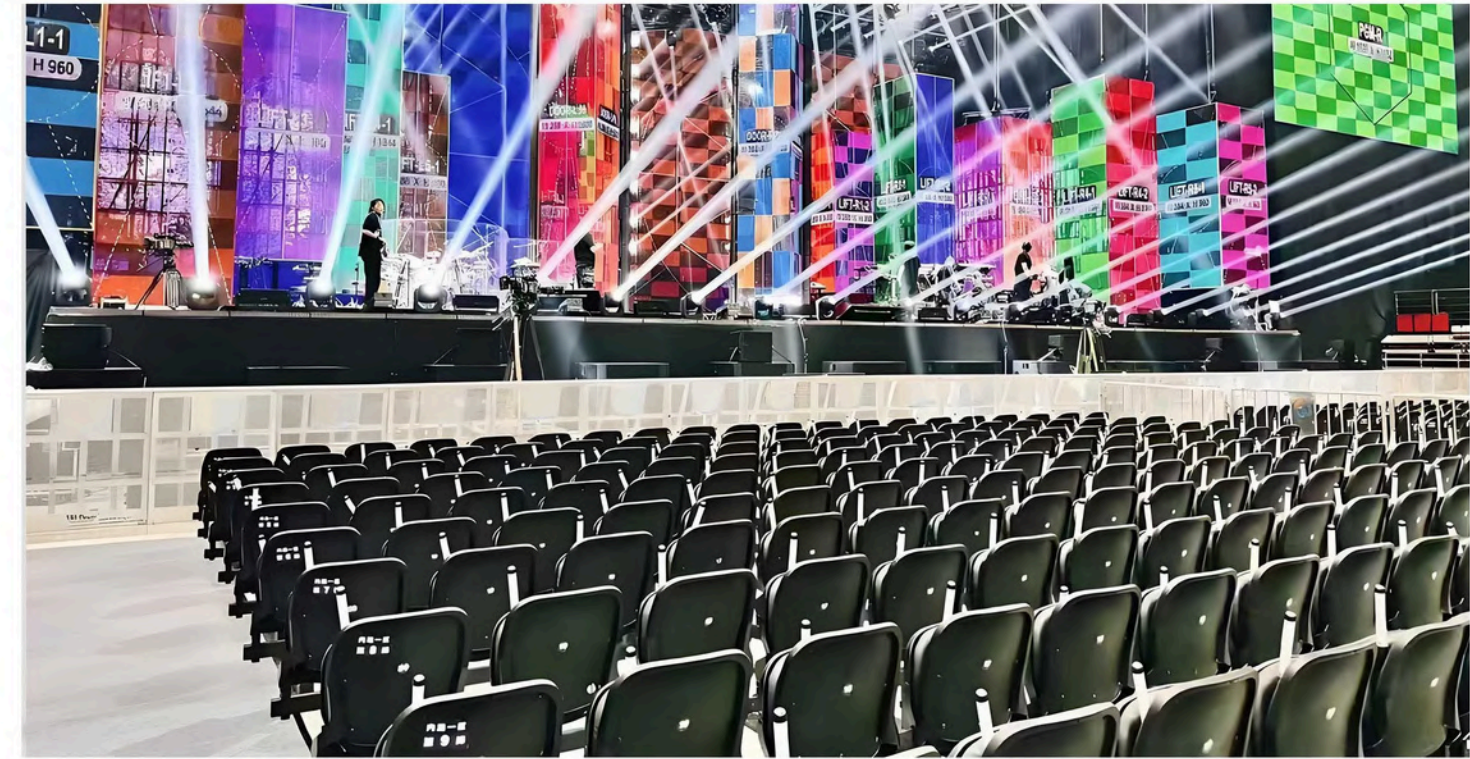


Front View

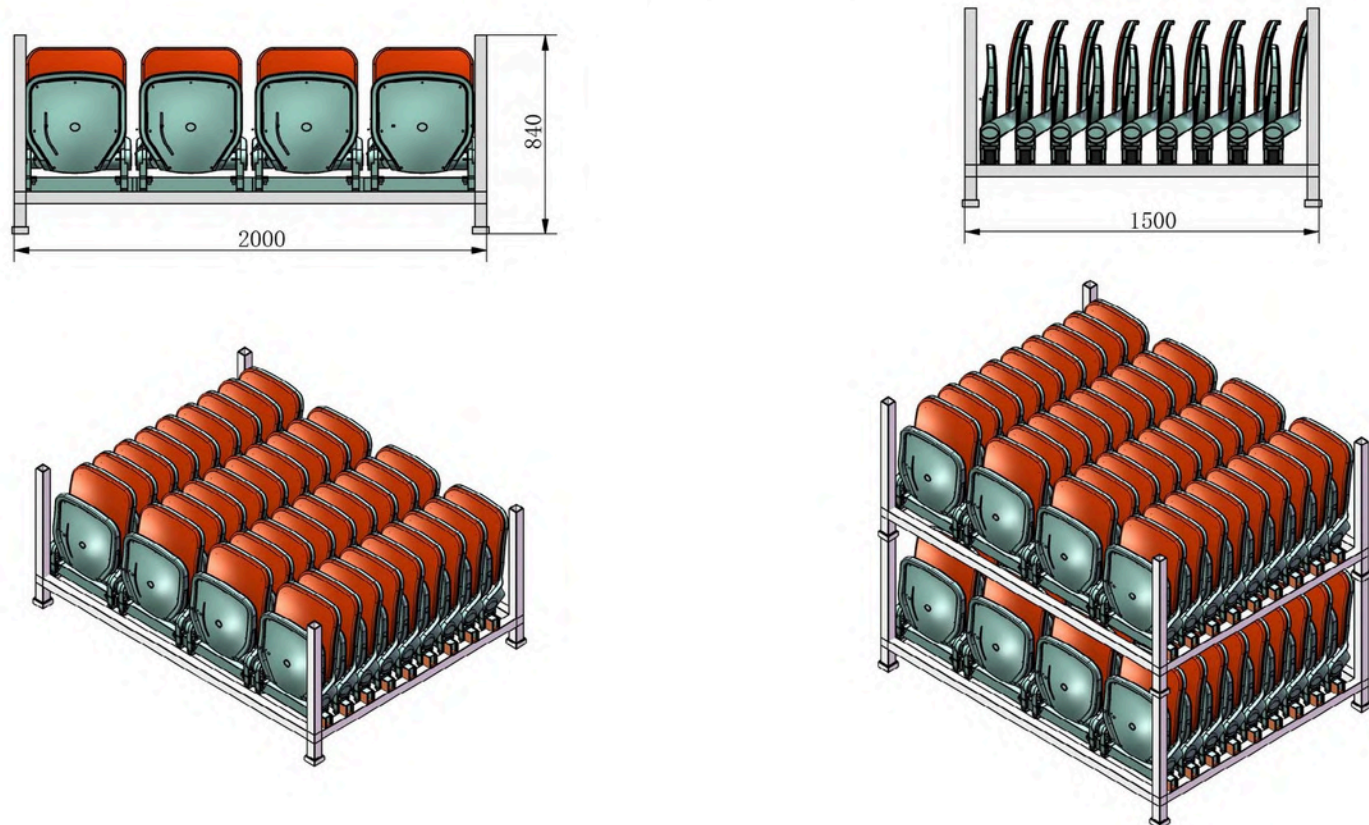
Side View



Optional Seat Upholstery Available

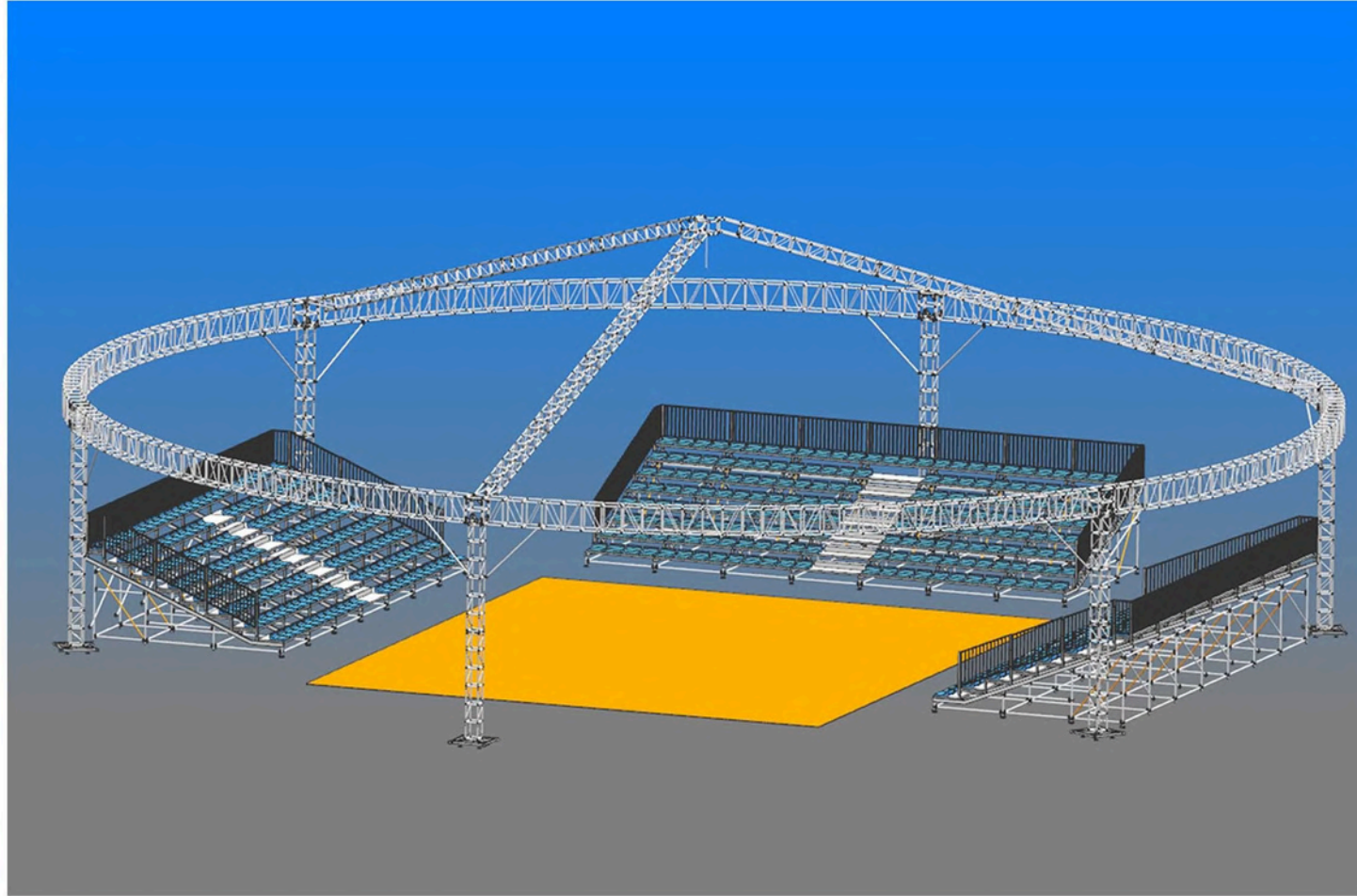


Specialized pallet racking



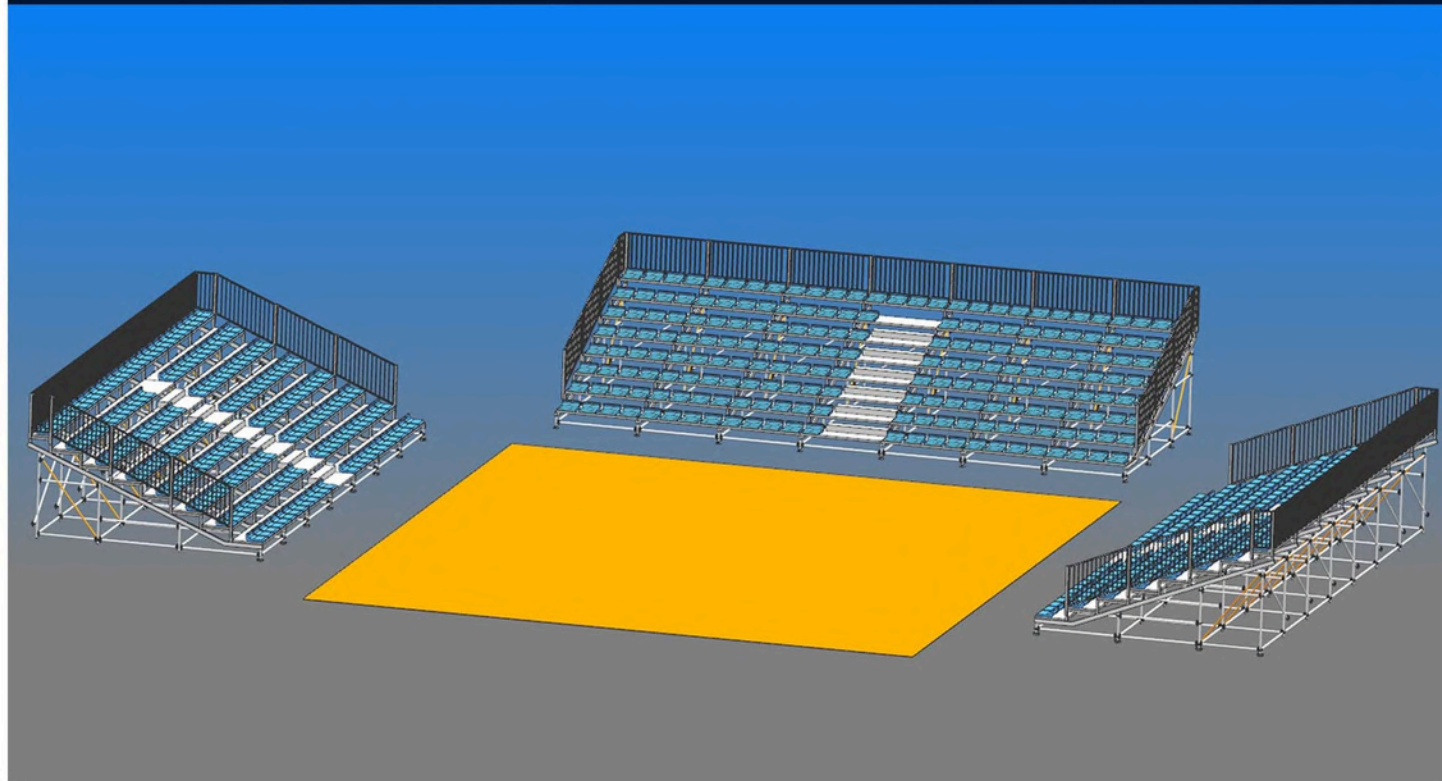
Product Detail

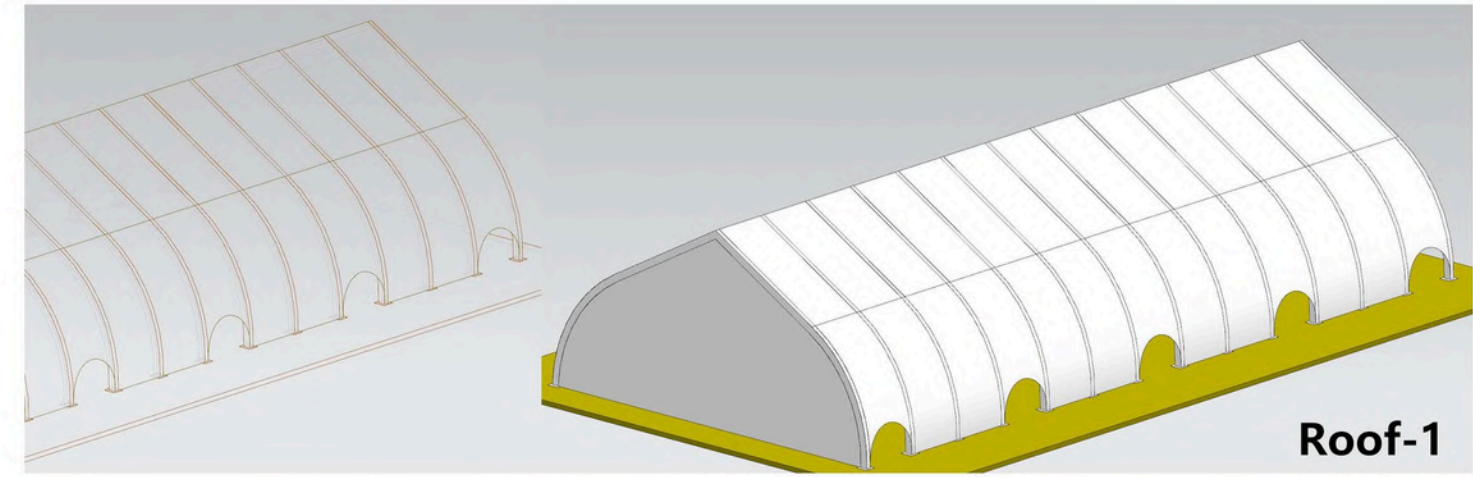
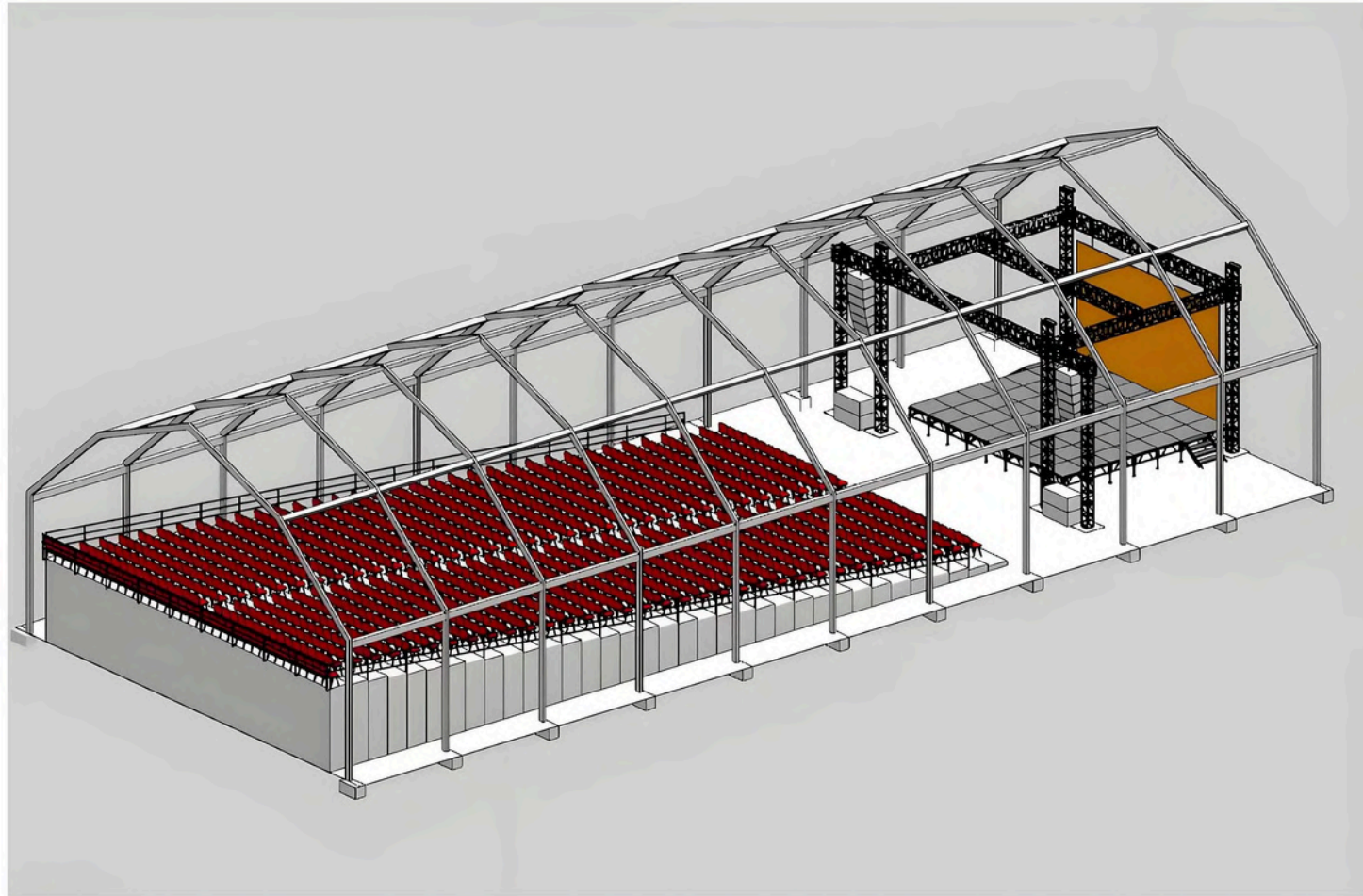
The seat bracket is made of aluminum alloy cast aluminum structure, the column is made of hot-dip galvanized rectangular square steel, the seat chair surface is made of pp plastic, which is UV resistant for ten years without discoloration and fifteen years without deformation, plug-and-play quick installation, no need for bolt fixation, and the special transport pallet for quick loading and unloading.
 Scope of application: all kinds of indoor and outdoor performance activities, concerts, sporting events, conferences and exhibitions.



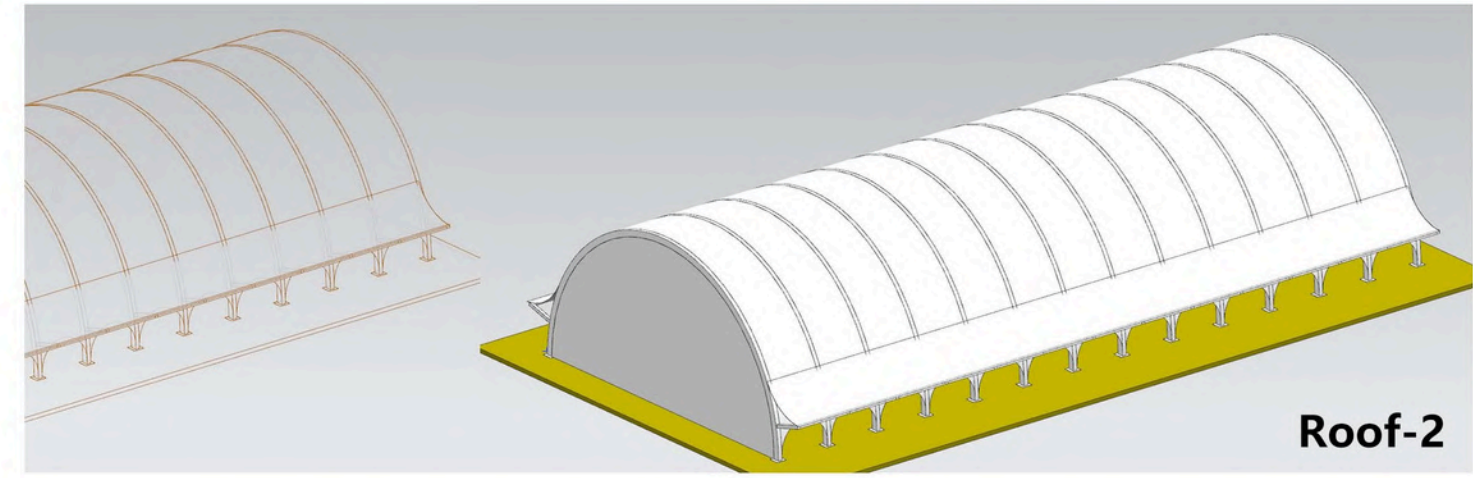
● Steel structure grandstand and round truss roof

- ▶ Model: BL-ST-10C
- ▶ Stand structure: Steel Q235
- ▶ Loading Capacity: $\geq 5\text{KN}$ per square meters
- ▶ Guard Rail: 3 Side safety Rail
- ▶ Aisles: 1.5 meters width
- ▶ Applications: Temporary game basketball court
- ▶ Ceiling structure: Aluminum alloy truss structure 6061-T6
- ▶ Ceiling fabric material PVC, wind resistance grade 10

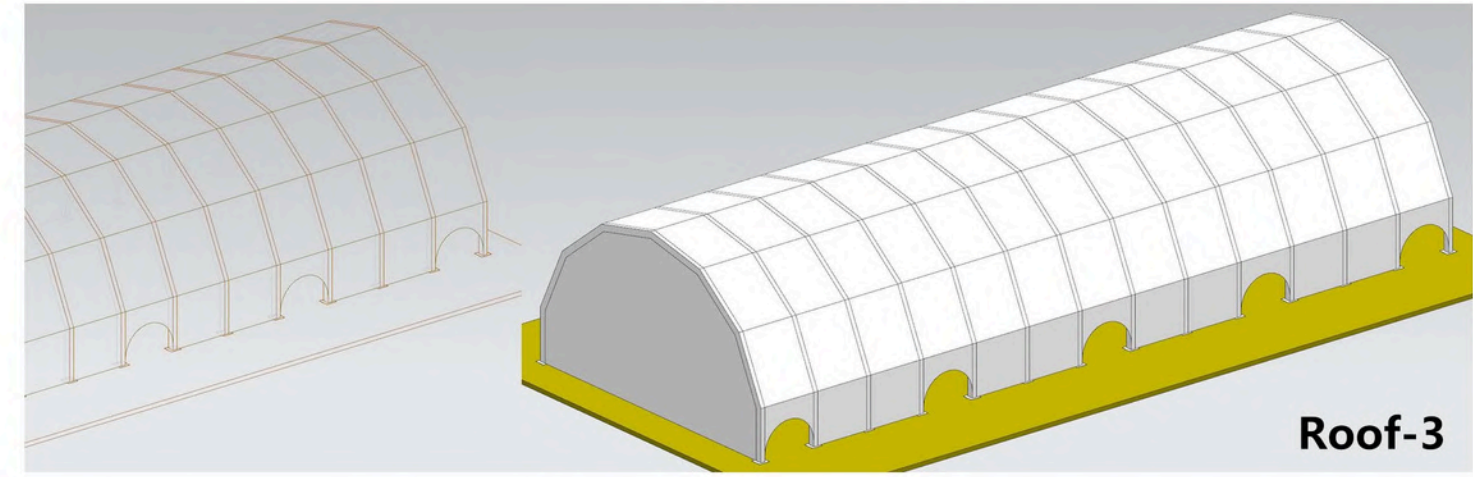




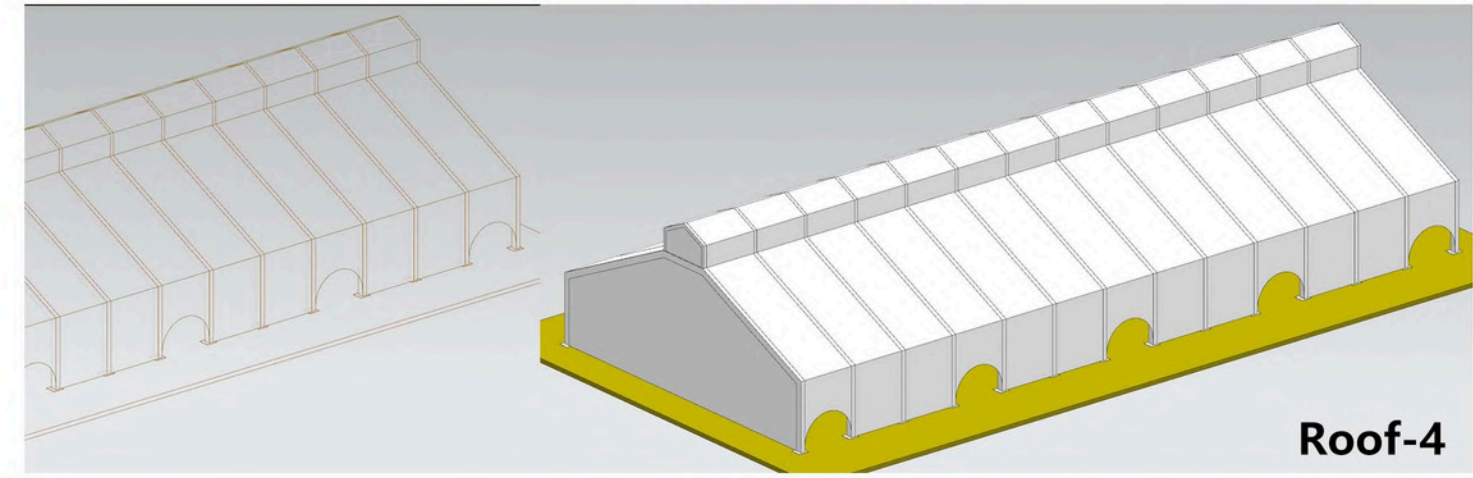
Roof-1



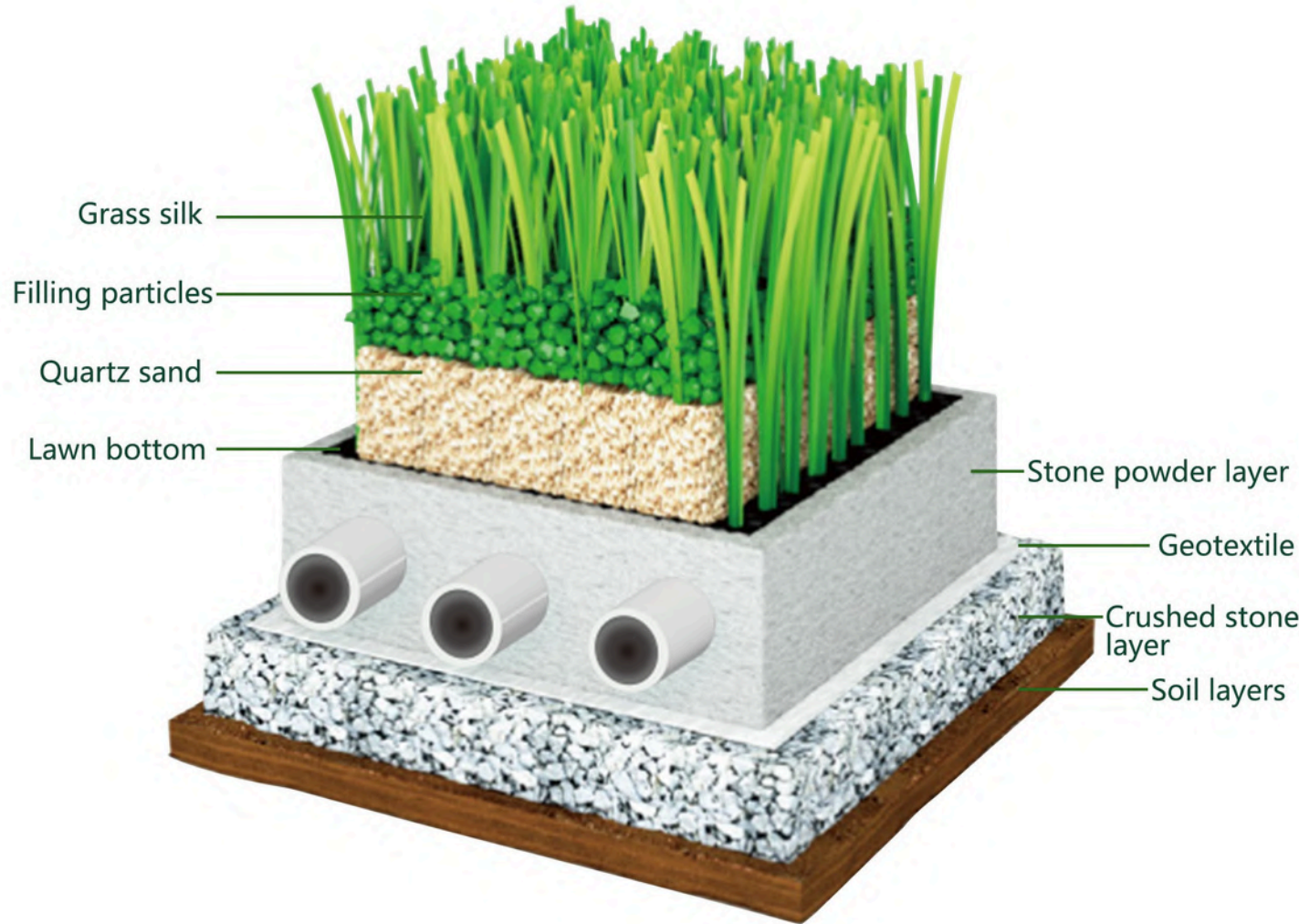
Roof-2



Roof-3



Roof-4



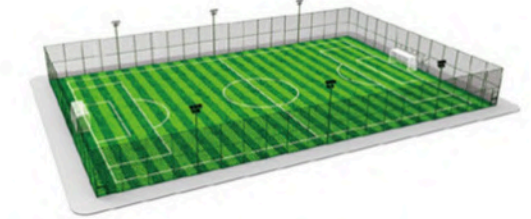
In the site selection area, weeds are removed from the ground, and the plain soil is compacted with a road roller to form a plain soil layer; then the horizontal spacing is 10 meters, drainage blind pipes are laid, and crushed stones with a thickness of 15 cm are laid on the compacted plain soil. It is then compacted by a road roller to form a gravel layer; the gravel layer is covered with a geotextile to form a geotextile isolation layer; on the geotextile isolation layer, a 15-30cm thick layer of cement and stone powder is mixed and stirred by grades. After the stable layer is solidified, the artificial turf is finally laid to form a sponge football field.

VENUE RENDERINGS

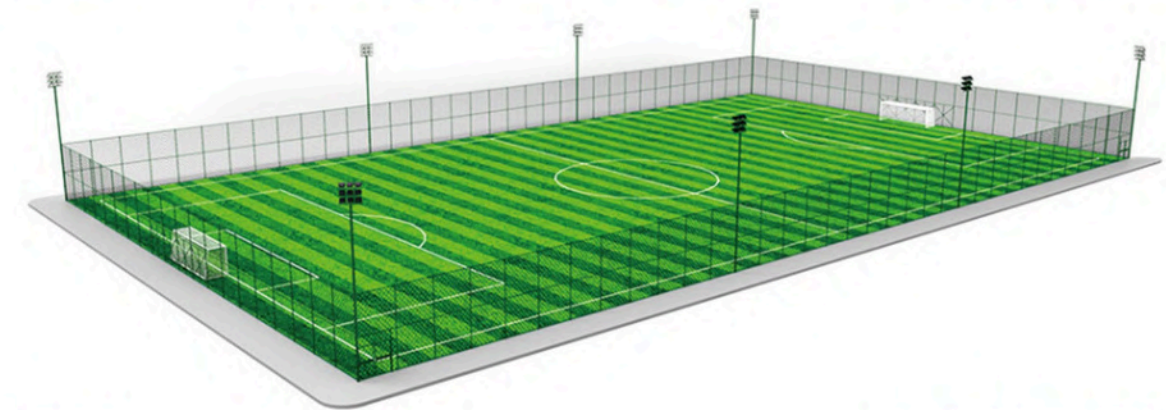
football field



5V5 L: 42m W: 25m S: 1050 m²



7V7 L: 69m W: 47m S: 3243 m²

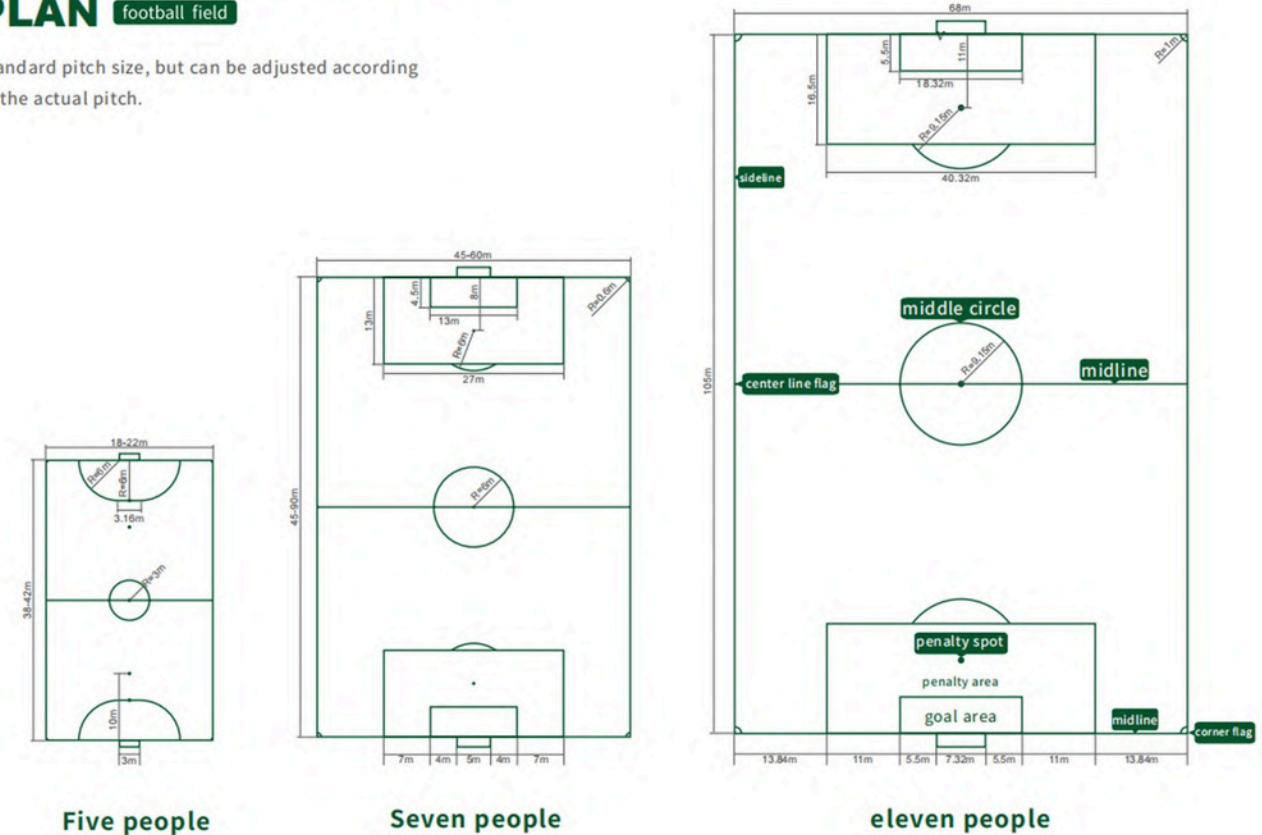


11V11 L: 109m W: 68m S: 7412 m²

VENUE SPECIFICATION

PLAN football field

Standard pitch size, but can be adjusted according to the actual pitch.





<p>Specification parameters</p>	<p>Three-on-three football goal: 120CM*80CM Five-a-side football goal: 300CM*200CM Seven-a-side football goal: 550CM*200CM 11-a-side football goal: 732CM*244CM</p>
<p>Material quality</p>	<p>Steel, aluminium alloy, plastic powder</p>
<p>Suitable for the venue</p>	<p>Professional international competition football fields, schools, outdoor and indoor stadiums</p>
<p>Workmanship characteristics</p>	<p>Main frame: High-strength aluminum alloy: lightweight (density 2.7g/cm³), anti-rust, suitable for professional events, such as FIFA-certified goals. Galvanized steel: It has a relatively low cost and strong load-bearing capacity (tensile strength ≥450MPa), and is mostly used in school or community courts. Surface treatment: Electrostatic powder coating (thickness ≥80μm) or hot-dip galvanizing, salt spray resistance test ≥1000 hours, suitable for long-term outdoor exposure to sun and rain. Frame forming technology: Seamless welding: The columns and crossbeams are welded by argon arc welding or laser welding to ensure that the joint strength is ≥ 90% of the base material and avoid the risk of cracking. Elliptical cross-section design: The column diameter is usually ≥120mm, and the crossbeam thickness is ≥10mm, optimizing the impact resistance performance (capable of withstanding a static load of 2700N).</p>





I. Core Structure and Specifications

1. Height and dimensions:

Standard football field (11-a-side) : The height of the fence is usually 4 meters (on both sides). If it is close to a road or residential area, it should be no less than 4 meters. The blocking height of the rooftop court is no less than 6 meters.

Small venue (5-a-side/training ground) : Height 3-4 meters, equipped with a top closed design (cage fence) to prevent the ball from flying out.

Mesh size: 50×50mm or 60×60mm, balancing protection and light transmission to prevent spheres from passing through.

2. Columns and frames:

Column material: Hot-dip galvanized steel pipe (wall thickness ≥2.5mm), aluminum alloy (6063-T5 type) or steel, wind load resistance ≥0.5kN/m².

Spacing design: The column spacing is 1.8-2.5 meters. At the corners, densification and reinforcement are carried out to ensure overall stability.

II. Materials and Surface Treatment

1. Fence type:

PE/PVC coated fence: The inner core is made of high carbon steel wire (tensile strength ≥500MPa), and the outer layer is covered with weather-resistant plastic (thickness 0.6-1.8mm), which is resistant to acid and alkali, UV-resistant, and has a service life of 10-15 years.

Hook mesh: Flexible woven structure, made of galvanized wire or plastic-coated wire, with strong impact resistance, suitable for frequent impact scenarios (such as cage football fields).

Chain-type fence: Galvanized steel pipe + PVC-coated steel wire rope, high strength and easy to install and disassemble, widely used in professional events.

2. Anti-corrosion process:

Hot-dip galvanizing: Zinc coating thickness ≥85μm, no rust after salt spray test ≥1000 hours.

Dip coating/powder coating: A dense protective layer is formed on the surface, increasing weather resistance by more than 30%.

Color options include dark green, grass green, etc.

III. Installation and Safety Design

1. Installation method:

Embedded type: The column is buried at a depth of ≥60cm, fixed on a concrete base (C25 grade), and the anti-toppling tensile force is ≥2000N.

Bottom plate type: Suitable for hardened ground, fixed by expansion bolts (M12×150mm), easy to disassemble.

2. Security Enhancement:

Anti-climbing design: A 30° inward inclination Angle or anti-climbing stinger is installed at the top, and the edges of the mesh are rounded (edge radius ≥3mm).

Nighttime visibility: Reflective films or LED light strips enhance the warning effect at night.

Buffer structure: 304 stainless steel hinges are used at the connection between the door frame and the fence, and anti-pinch hand locks are equipped.

IV. Application Scenarios and Classification

1. Professional event level:

Materials: High-strength aluminum alloy frame +PE plastic-coated net, certified by FIFA or EN 1176, unit price 90-120 yuan per square meter.

Features: Impact resistance test (no deformation after being dropped from a 20kg object for 3m), suitable for the reflection requirements of lighting systems.

2. Campus/Community level:

Recommended configuration: 3.5m high hook mesh + flange base, price 60-80 yuan per square meter, suitable for daily training and low-intensity use.

Cage fence: Fully enclosed structure (including top net), suitable for 5-person venues, with a small footprint and flexible installation.

3. Indoor/Temporary venues:

Portable fence: Detachable design (such as Alibaba's foldable products), self-weight ≤30kg, suitable for exhibitions or temporary competitions.

V. Maintenance and Lifespan

1. Daily maintenance:

Check the bolt tightness (torque ≥20N·m) every quarter and clean the drainage holes to prevent water accumulation and rust. Replace the damaged mesh in time to avoid a decrease in local strength.

2. Life cycle:

Hot-dip galvanized fence: ≥15 years (30% shorter in coastal areas).

Ordinary powder-coated fence: 8-10 years. The plastic-coated fence requires no maintenance and the surface dust can be washed away by rainwater.

VI. International and Domestic Standards

1. International Certification

FIFA QUALITY: Passed the impact resistance, weather resistance and environmental protection tests (heavy metals comply with RoHS standards).

EN 1176: European safety standard, which requires that the fence has no protruding parts and the size of the passage door is ≥2×2m.

2. Domestic norms:

GB/T 20033.3: It stipulates that the wind load resistance of the fence shall be ≥0.5kN/m², and the shaking amplitude of the post shall be ≤5mm.

GB 19272-2011: Grounding resistance ≤10Ω, lightning protection design.





I. International Lighting Standards and Grades

1. FIFA Event Level (Level I)

Illuminance requirements

Horizontal illuminance: ≥ 2000 lux in the direction of the main camera, vertical illuminance ≥ 1500 lux;

Uniformity: U1 (minimum/maximum) ≥ 0.7 , U2 (average/minimum) ≥ 0.8 .

Applicable scenarios: Professional events such as the World Cup and the European Cup, as well as high-definition TV broadcasts.

2. Training/Amateur Level (Level II)

Illuminance requirements

Horizontal illuminance ≥ 500 lux, uniformity $U1 \geq 0.6$;

Applicable scenarios: Campuses, community courts and non-professional competitions.

3. Domestic Standard (GB 50034)

The illuminance of the 11-a-side court is ≥ 300 lux (for amateur competitions), the color temperature is 4000-6000K, and the color rendering index Ra is ≥ 80 .

II. Types of Lamps and Technical Parameters

1. LED lighting fixtures: Energy-saving (luminous efficacy ≥ 140 lm/W), with a lifespan of 50,000 hours, supporting intelligent dimming, suitable for professional events and long-term operation venues

2. Metal halide lamps: Low initial cost, luminous efficacy 80-100 lm/W, lifespan 10,000 hours, suitable for amateur venues with limited budgets

3. High-pressure sodium lamps: They have strong penetration, a color temperature of 2000K (slightly yellowish), are suitable for foggy areas, and are applicable to outdoor venues with harsh climates

4. Technical Points:

Anti-glare design: The lamps are equipped with honeycomb-shaped grilles or asymmetric light distribution, with a uniform glare value (UGR) of less than 25.

IP protection grade: $\geq IP65$ (waterproof and dustproof), IP67 is required in coastal areas.

Heat dissipation system: Aluminum heat dissipation fins + forced air cooling to ensure that the light attenuation is $\leq 5\%$ per year in high-temperature environments.

III. Lamp Post Layout and Installation Parameters

1. Layout plan

Corner arrangement (professional field) :

The height of the lamp post is 25 to 50 meters, with an inclination Angle of 15° to 25° , covering the entire area without any shadow.

Each pole is equipped with 12 to 24 lamps (such as Masco LED 1500W), with a total power of 100 to 200kW.

Arrangement on both sides (training ground) :

The height of the lamp posts is 15 to 20 meters, with a spacing of 30 to 40 meters, and 6 to 8 lamps on each side (such as Philips ArenaVision).

2. Wind resistance and safety

Lamp post material: Hot-dip galvanized steel (wall thickness ≥ 8 mm) or aluminum alloy, wind resistance grade ≥ 12 level;

Foundation depth: 1/10 of the height of the lamp post (for example, a 30-meter post requires a 3-meter deep base), concrete grade C30.

IV. Energy and Intelligent Control

1. Energy-saving plan

Intelligent dimming system: Mode control (competition/training/maintenance), energy saving 30%-50%;

Light-sensing linkage: Automatically adjust the brightness according to natural light, suitable for day and night switching.

2. Renewable energy

When paired with solar panels (such as off-grid systems) : A battery pack (capacity ≥ 200 kWh) is required, providing a battery life of 72 hours on cloudy and rainy days.

V. Maintenance and Cost

1. Maintenance cycle

LED lighting fixtures: Clean the lenses every two years and replace the driver power supply every five years.

Metal halide lamps: The lamp tubes should be replaced annually, and the ballast has a lifespan of 3 to 5 years.

2. Cost estimation

Professional-grade LED solution: 120-200 yuan per square meter (including lamps, pole positions and installation), the total investment for an 11-person workshop is approximately 500,000-800,000 yuan.

Amateur-level halide lamps: 60-100 yuan per square meter, with a total cost of 200,000-300,000 yuan.

VI. Reference to Actual Cases

Beijing Workers' Stadium (after renovation)

It adopts Masco LED 1400W lamps, with 50-meter-high poles at the four corners, an illuminance of 2200 lux, and supports 4K HDR broadcasting.

2. Community cage football field

8-meter double-sided lamp poles + 400W Philips LED, illuminance 600 lux, annual electricity bill approximately 5,000 yuan (for 4 hours per day).





I. Technical Parameters and Core Functions

1. Display performance

Brightness and contrast: The brightness of outdoor LED screens should be ≥ 6000 nits (such as 12000 nits for Absen products), and the contrast ratio should be 600:1 to ensure clear visibility in strong light.

Refresh rate and grayscale: The refresh rate is ≥ 2400 Hz (up to 7680Hz for Aoto Electronics), with a grayscale level of 14-16 bits, ensuring no trailing in dynamic images and precise color reproduction.

Resolution and pixel density: Pixel pitch 16mm (P16) to 10mm (S10), density 3906- 10,000 points per square meter, suitable for different viewing distances (16-220 meters).

2. Protection and stability

Protection grade: Generally up to IP65/IP67, waterproof and dustproof, suitable for extreme weather conditions (-20°C to +60°C).

Impact-resistant design: It adopts a soft mask and elastic frame (such as the Alto SP series)

to reduce the risk of player collision injuries and has passed vibration tests(Cyclic vibration at 75Hz to 1Hz for 4 hours without failure).

3. Energy conservation and intelligent control

Power consumption optimization: It saves more than 50% energy compared with traditional products, with an average power consumption of 250-440W/m².

Intelligent management platform: For instance, the Absen AOTO platform supports centralized control of multiple devices, achieving score management, advertisement carousel and signal backup.

II. Application Scenarios and Solutions

1. Event information display

Real-time scores and data: Match time, goal count, player statistics, etc. are updated synchronously through high refresh rate screens, such as the application of Hisense's 300m² screen at the St. Jakob-Stellate in Switzerland.

Interactive features: The NBA All-Star Game uses LED floor screens, which support line drawing adjustment, player tracking and audience interaction, enhancing the entertainment value of the event.

2. Advertising and brand display

Dynamic advertising carousel: The LED fence screens surrounding the stadiums

(such as the solution provided by Absen for the eight venues of the Qatar World Cup) can loop the content of sponsors, maximizing commercial value.

Multi-angle coverage: The inclination Angle of the box is adjustable (63.89° to 90°), adapting to different viewing angles of viewers and ensuring that the advertising content is displayed without any blind spots.

3. Venue atmosphere creation

Full-color display and lighting linkage: The 350-square-meter screen created by Lianjian Optoelectronics for Wembley Stadium, combined with a lighting system, enhances the excitement of the event.

Customized content: Such as the "Ice and Snow Five Rings" LED installation at the opening ceremony of the Winter Olympics, which integrates cultural elements with technological creativity.

III. Industry-leading Brands and Cases

1. Absen: High gray scale and high refresh rate LED floor screen, 2024 Copa America and NBA All-Star Game LED interactive floor.

2. Lianjian Optoelectronics: 7680Hz refresh rate, 140° ultra-wide viewing Angle, 350m² surround screen for the UEFA Champions League final at Wembley Stadium.

3. Leyard Optoelectronics: COB packaging technology, 8K ultra-high-definition large screens, LED advertising screens for the Chinese League One, and the opening ceremony of the Beijing Winter Olympics.

4. Aoto Electronics: 360° protection design, 110% NTSC color gamut coverage, LED fence screens for the four venues of the Southeast Asian Football Tournament.

5. Hisense: High-resolution intelligent management solution, 300m² scoreboard at St. Jakob Stadium in Switzerland.

IV. Future Development Trends

1. Intelligent and interactive upgrades

Integration of AI and the Internet of Things: Achieve audience interaction through sensors (such as gesture control of advertising content), and enhance the viewing experience by combining VR/AR technology.

Adaptive environmental regulation: Automatically adjust the brightness according to the light intensity, extending the equipment's lifespan and reducing energy consumption.

2. Multi-functional integrated design

Modular splicing: Supports quick installation and disassembly (snap-fit connectors), suitable for temporary event requirements.

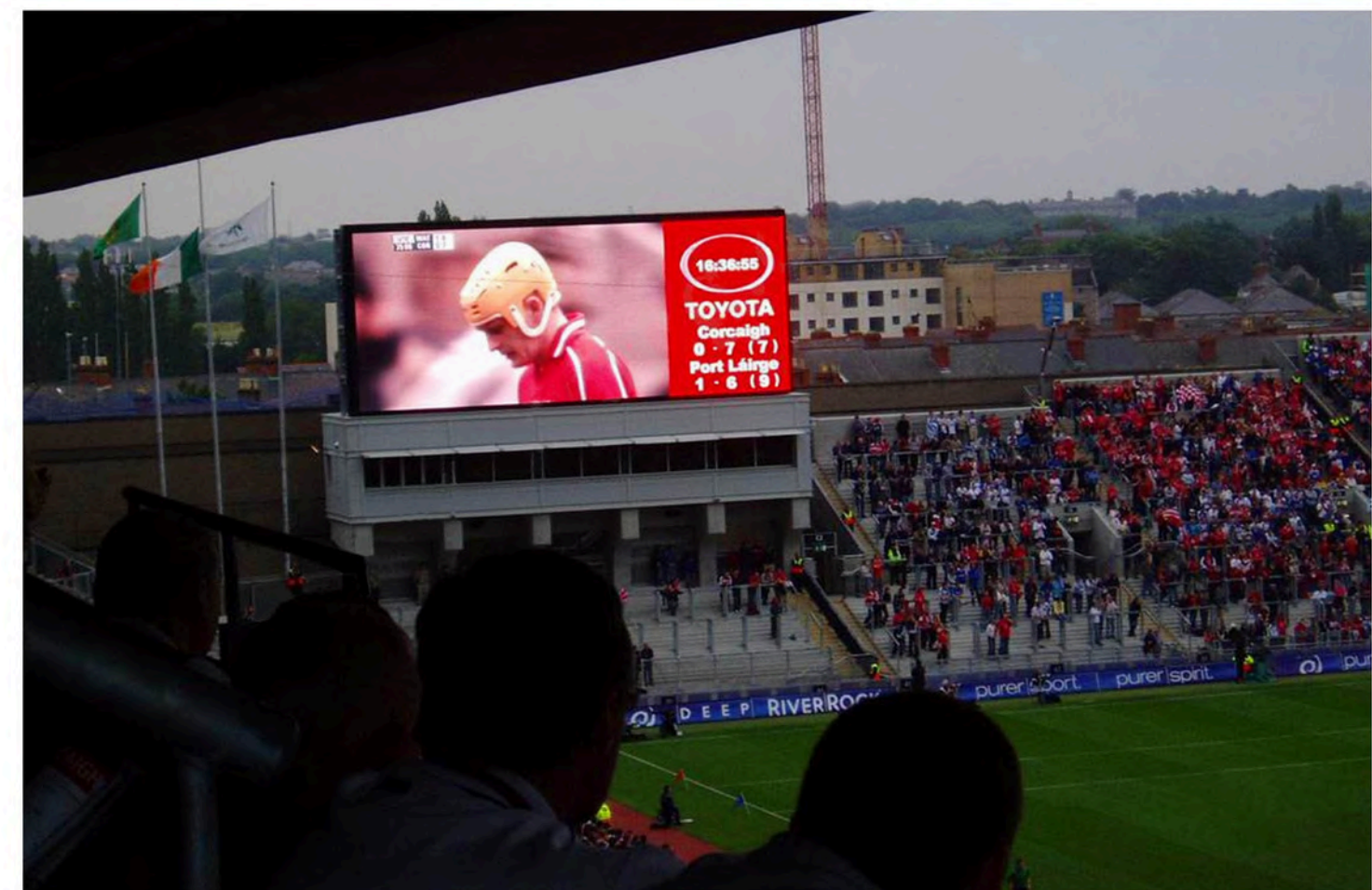
Multi-scenario reuse: The same screen can be switched to live event broadcasts, concert backgrounds or commercial advertisements, improving the utilization rate of the venue.

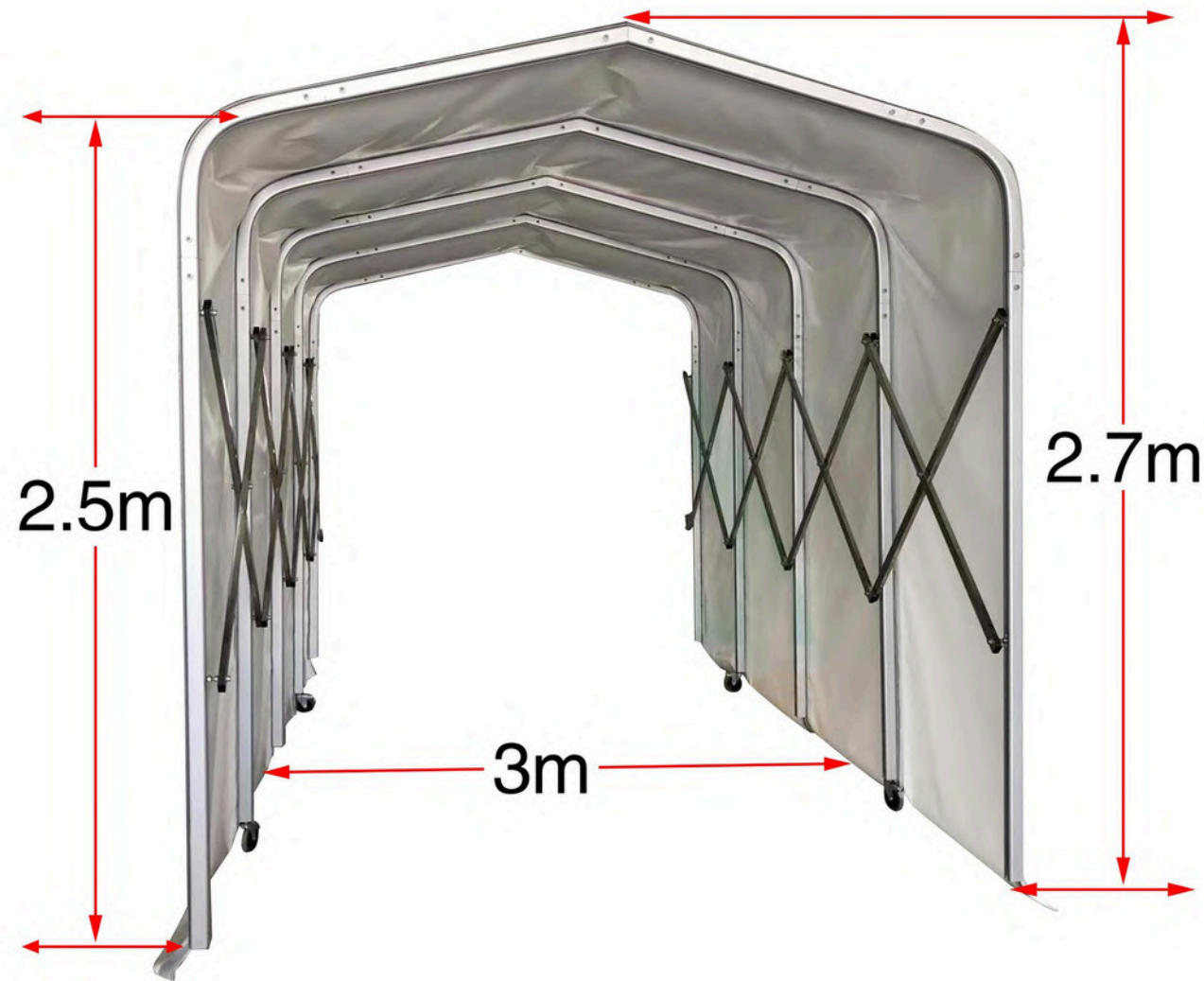
3. Green and sustainable development

Low-power materials: Utilizing Micro LED technology, energy consumption is reduced by more than 30%.

Long-life design: The screen lifespan exceeds 100,000 hours, reducing the frequency of replacement and maintenance costs.







Sport Tunnel

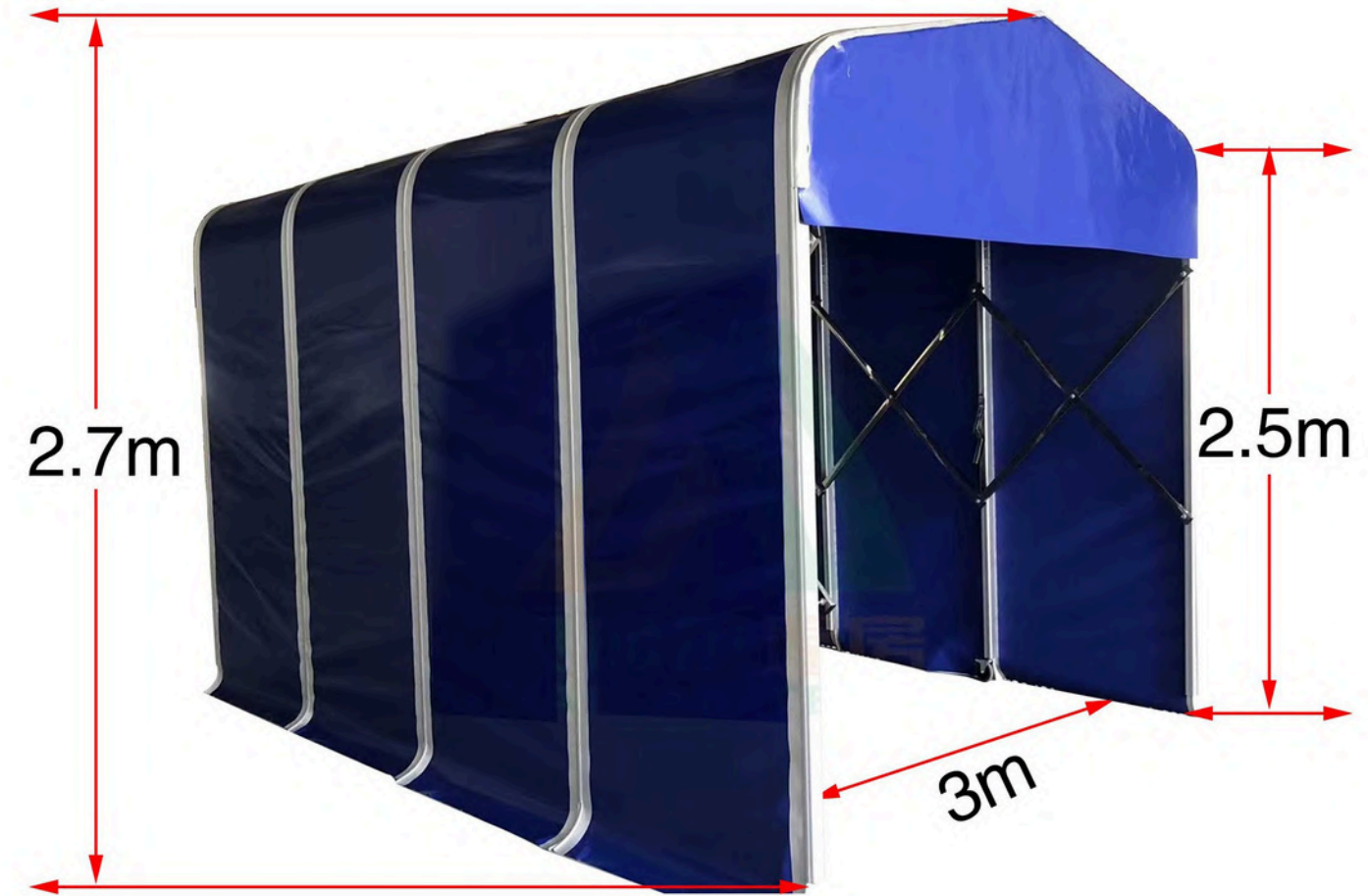
Frame: Aluminum Alloy

Fabric: PVC

Width: 3m

Side Height: 2.5m

Height: 2.7m



Sport Tunnel

Frame: Aluminum Alloy

Fabric: PVC

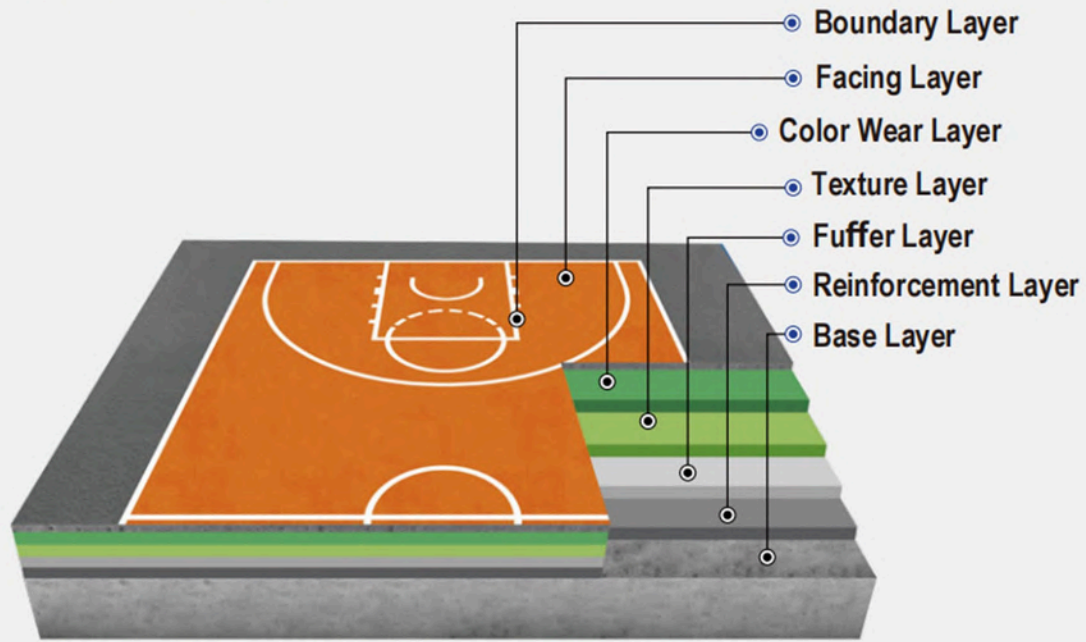
Width: 3m

Side Height: 2.5m

Height: 2.7m



ELASTIC ACRYLIC COURT



Mainly promote the color

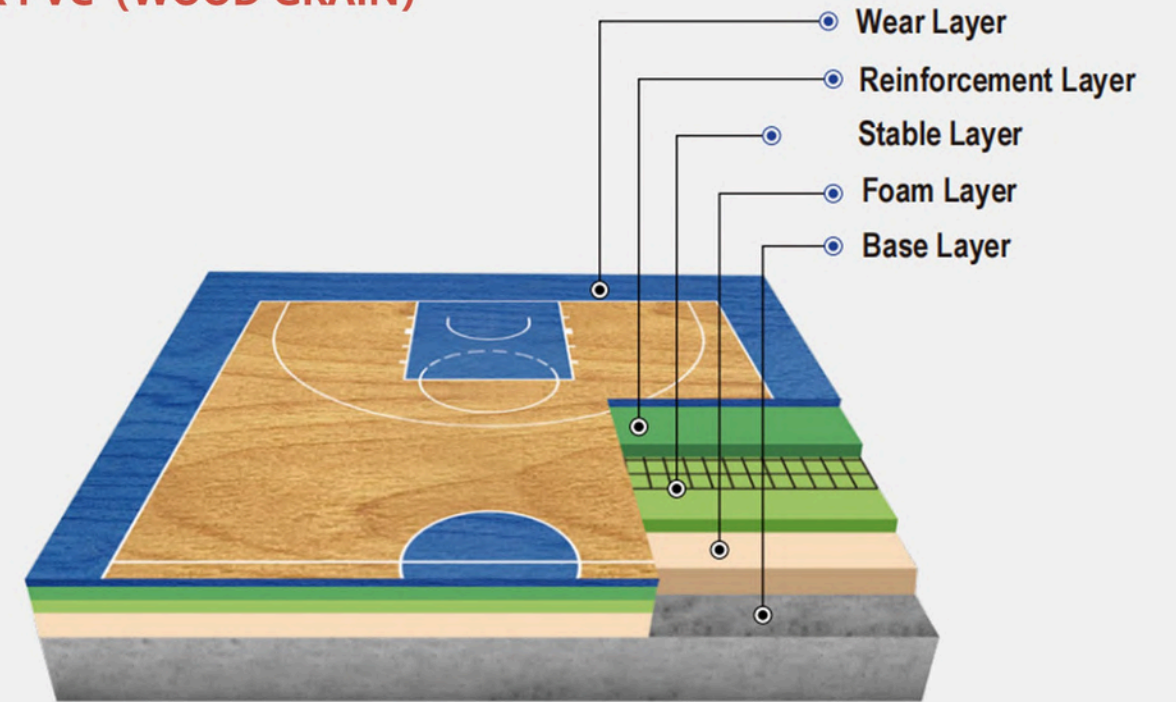


Recommended Thickness: 4-6mm

Optional color



INDOOR PVC (WOOD GRAIN)



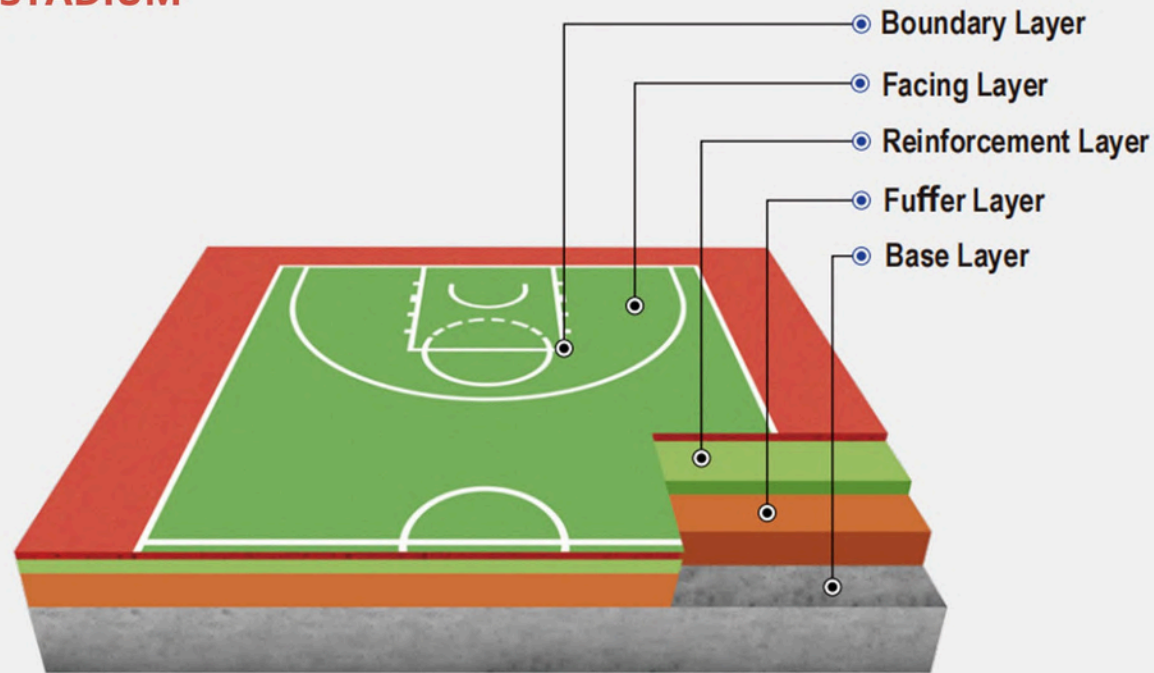
Optional color



Recommended Thickness:



SILICON PU STADIUM



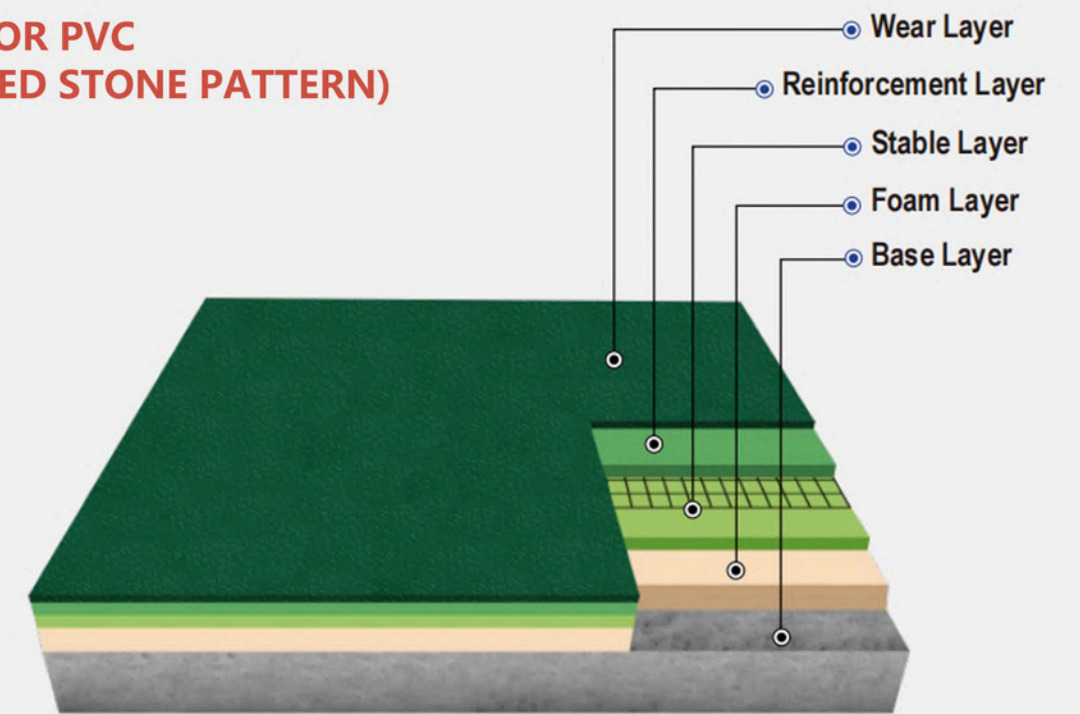
Mainly promote the color



Optional color



OUTDOOR PVC (CRUSHED STONE PATTERN)



Optional color



Recommended Thickness: 5mm





I. Core Structure and Parameters of Basketball Stands

1. Basic components

Backboard: The international standard size is 180cm wide × 105cm high, with the lower edge 290cm above the ground. The material is mostly high-strength tempered glass (thickness ≥13mm).It features high transparency, strong impact resistance and good weather resistance.

Hoop: Inner diameter 45cm, made of No. 18 round steel or spring steel, with an orange surface spray coating, capable of withstanding the impact force of professional athletes' dunks 46.

Support system: The main rods are usually welded with 140mm×140mm square tubes or 120mm×70mm square tubes, and the base size is 2.2m×1.2m.

Fill the counterweight box with 300-400 kilograms of cement or iron blocks to ensure stability.

2. International standards

Height: The upper edge of the rim is 3.05 meters above the ground (with an allowable error of ±5cm), and the lower edge of the backboard is 2.90 meters above the ground.

Wind resistance grade: The support frame must withstand wind force of level 12, and the welded parts must pass the vibration test (75Hz cyclic vibration for 4 hours without failure).

II. Main Classifications and Characteristics of Basketball Stands

1. Underground basketball stand: It needs to be pre-embedded with a 70cm×70cm×80cm base, fixed with concrete, featuring high stability and immobility. It is suitable for long-term fixed venues such as schools and communities.

2. Mobile basketball stand: The base is equipped with wheels or a counterweight box (2m×1m×0.4m), which can be flexibly adjusted in position. It is easy to install and suitable for temporary events and street basketball courts.

3. Electric hydraulic basketball stand: It adopts a hydraulic system to adjust the height (3.05m standard), is equipped with a microcomputer control, supports lifting and sliding, and is suitable for professional competitions.

4. Applicable to gymnasiums and professional training centers.

5. Haiyan basketball Stand: It features a square tube welded structure, equipped with a protective sleeve and an elastic hoop. It has a relatively low cost and is easy to maintain. It is suitable for primary and secondary schools as well as amateur courts.

III. Materials and Protective Design

1. Core material

Support: Hot-dip galvanized steel pipe (wall thickness ≥3mm) or 6063-T5 aluminum alloy, with anti-corrosion treatment and salt spray test ≥1000 hours.

Backboard: Tempered glass (impact strength ≥9J) or SMC composite material (corrosion-resistant and anti-aging).

2. Safety protection

Anti-collision protective cover: The base and columns are wrapped with hard sponge or EPE boards to reduce the impact injuries of athletes.

Buffer tie rod: It adopts a triangular support structure (main rod + two circular steel pipes) to enhance the anti-deformation capacity.

IV. Key Points for Installation and Maintenance

1. Installation process

Underground type: Dig a pit of 70cm×70cm×80cm, pre-bury the column and then pour concrete.

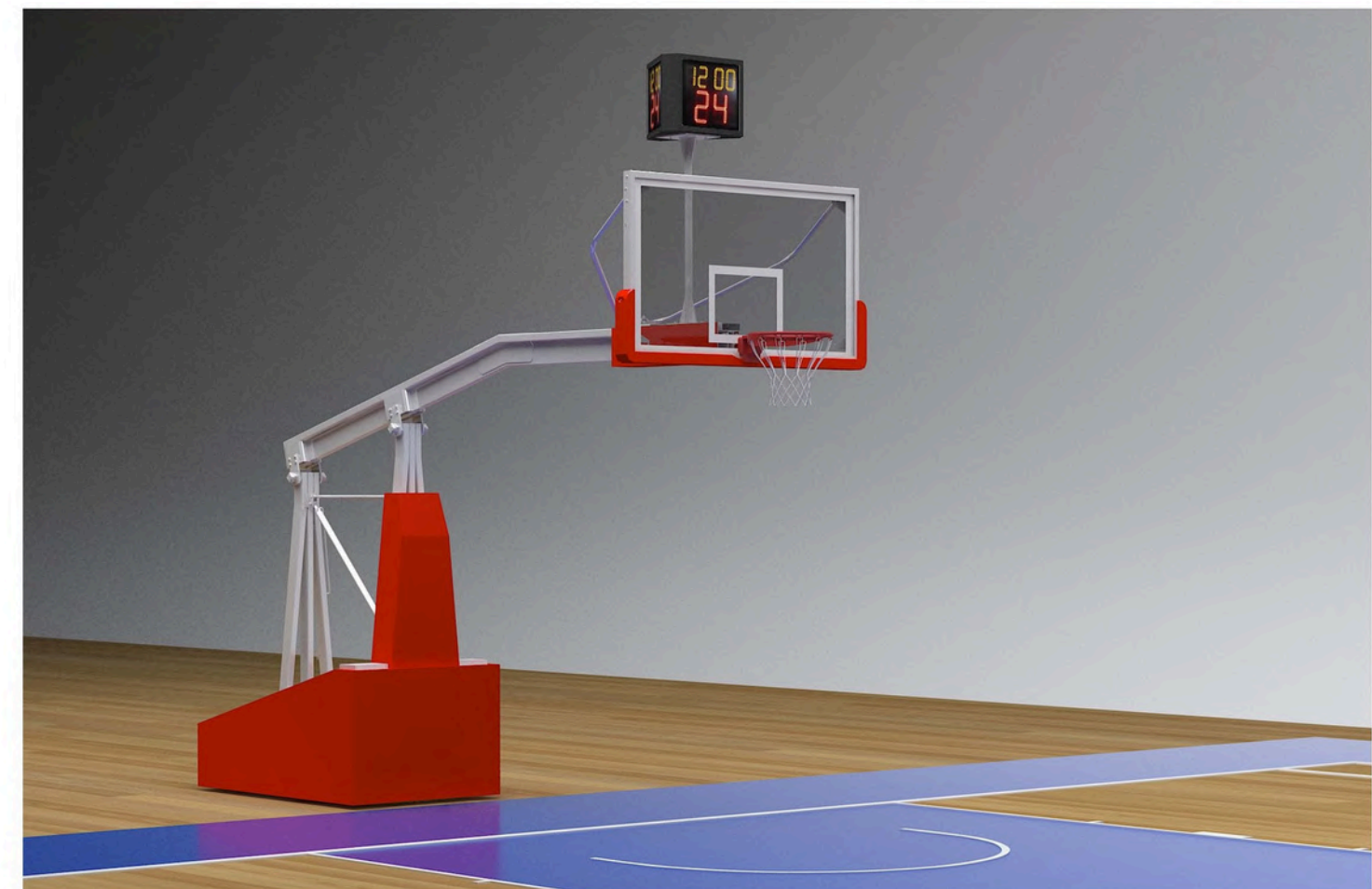
Install the backboard 4 days later.

Mobile type: It can be directly placed on the hardened ground and fixed by the counterweight box, without the need for complex construction.

2. Maintenance and servicing

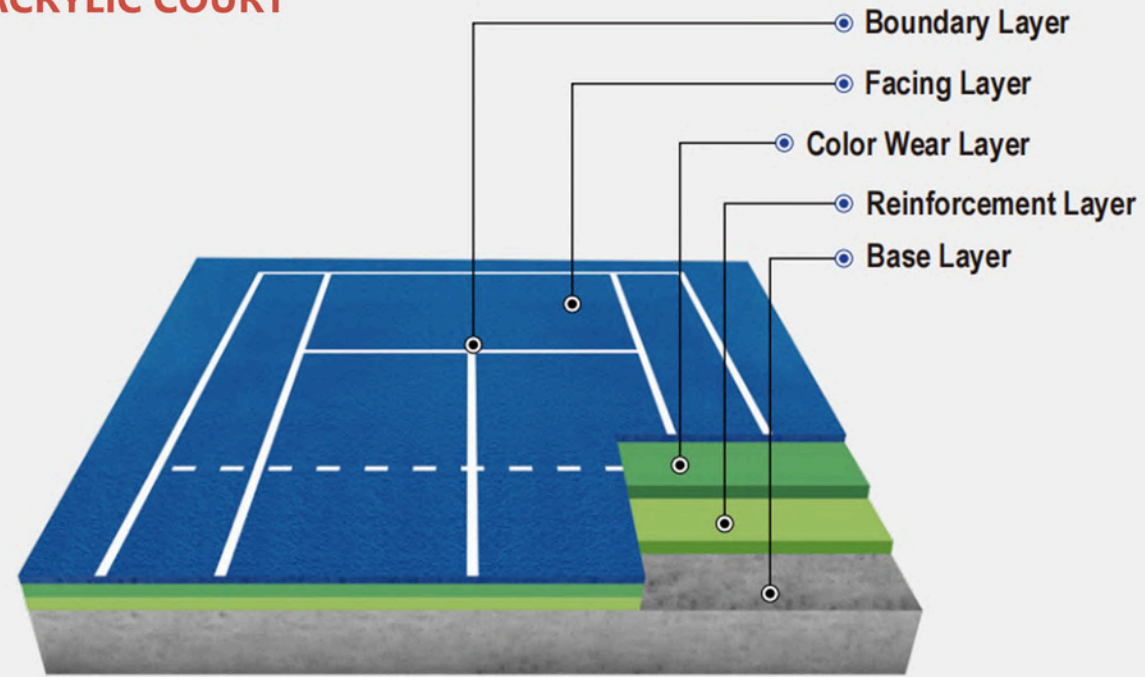
Regular inspection: Check the welding rust, bolt tightness and coating peeling twice a year, and repair them in time.

Cleaning measures: Wipe the backboard with a neutral cleaner and avoid hard objects hitting it or dunking it (not a spring rim).





HARD ACRYLIC COURT



Mainly promote the color



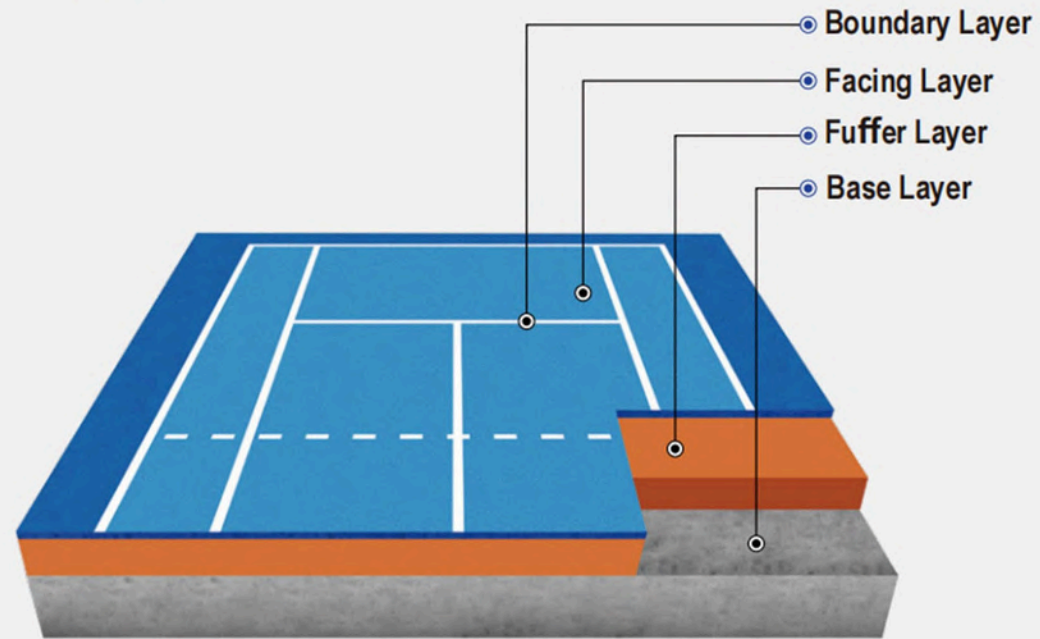
Recommended Thickness: 2mm



Optional color



SILICON PU STADIUM



Mainly promote the color



Recommended Thickness: 3-5mm

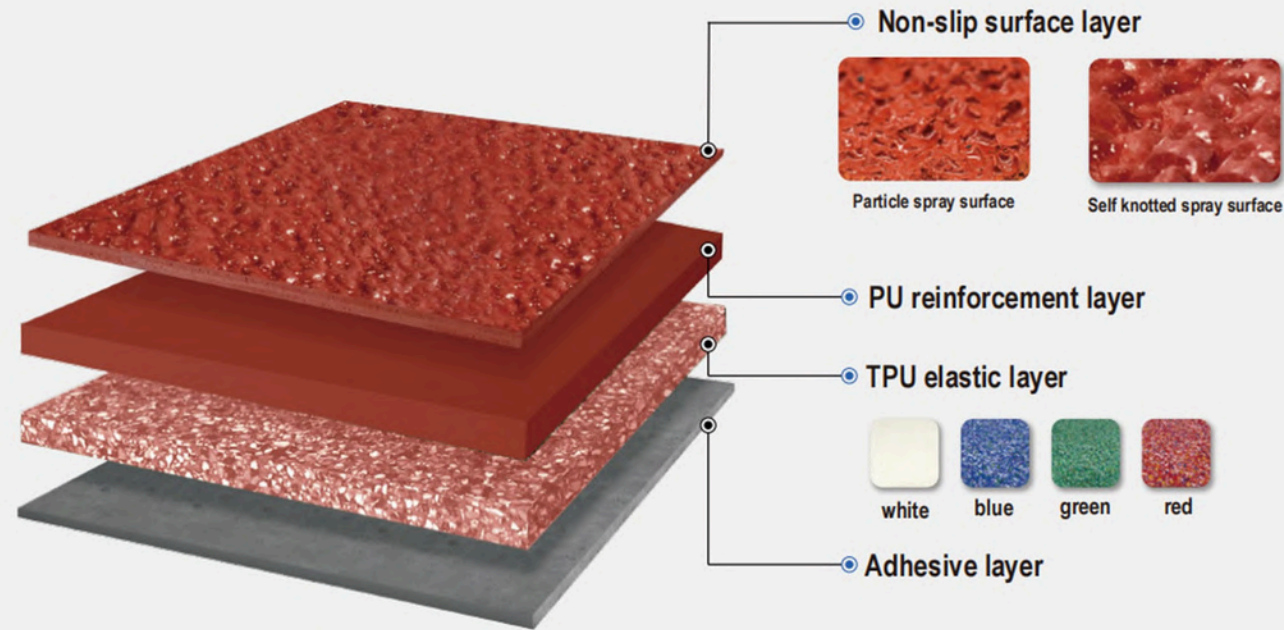


Optional color





SANDWICH RUNWAY



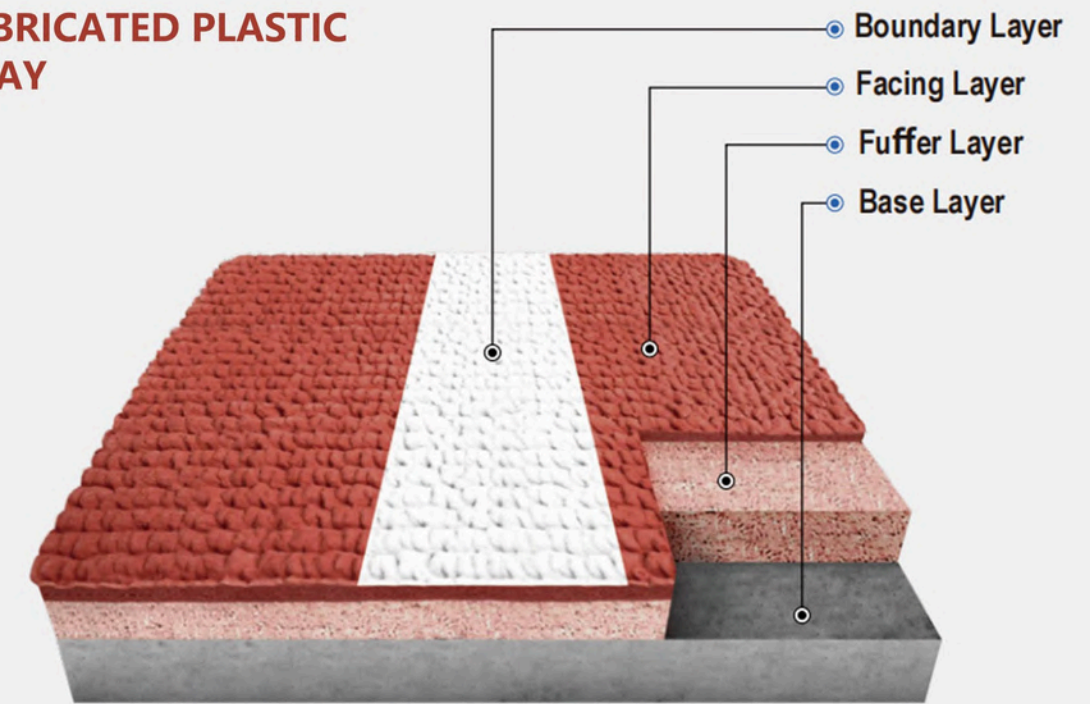
Mainly promote the color



Optional color



PREFABRICATED PLASTIC RUNWAY



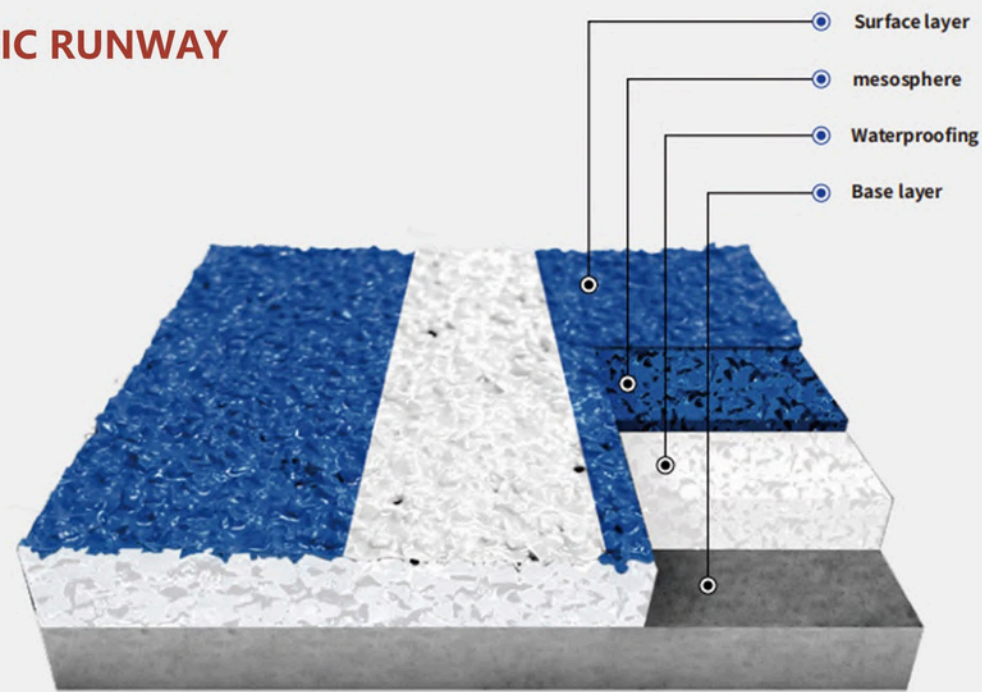
Mainly promote the color



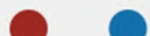
Optional color



EPDM PLASTIC RUNWAY



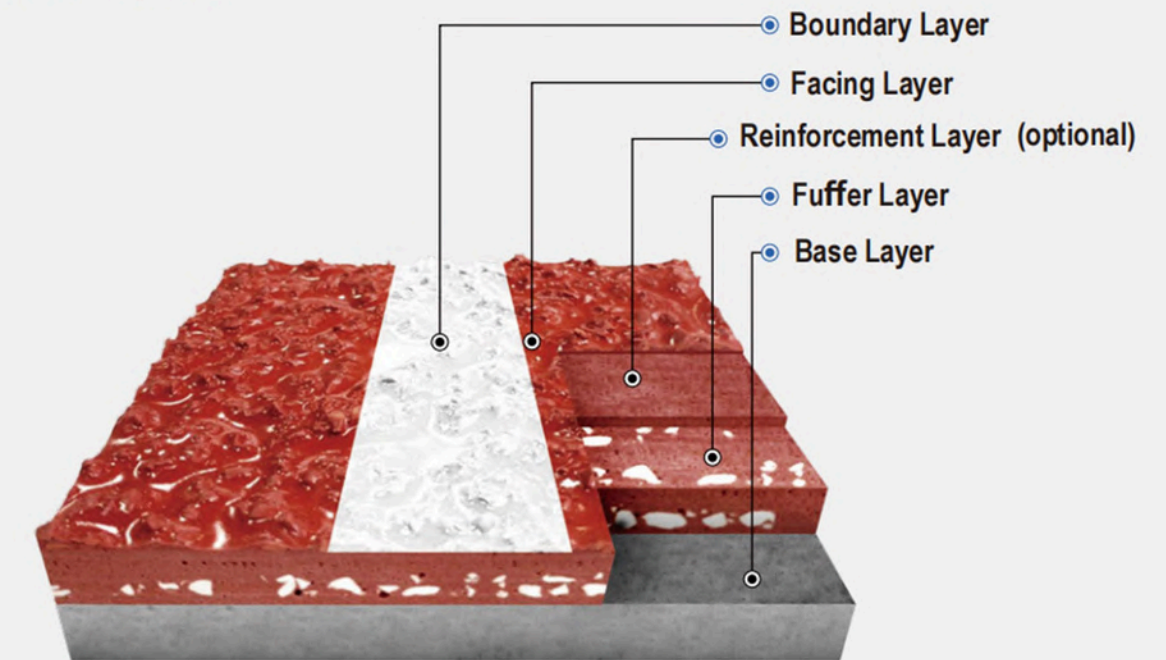
Mainly promote the color



Optional color



HYBRID PLASTIC TRACK

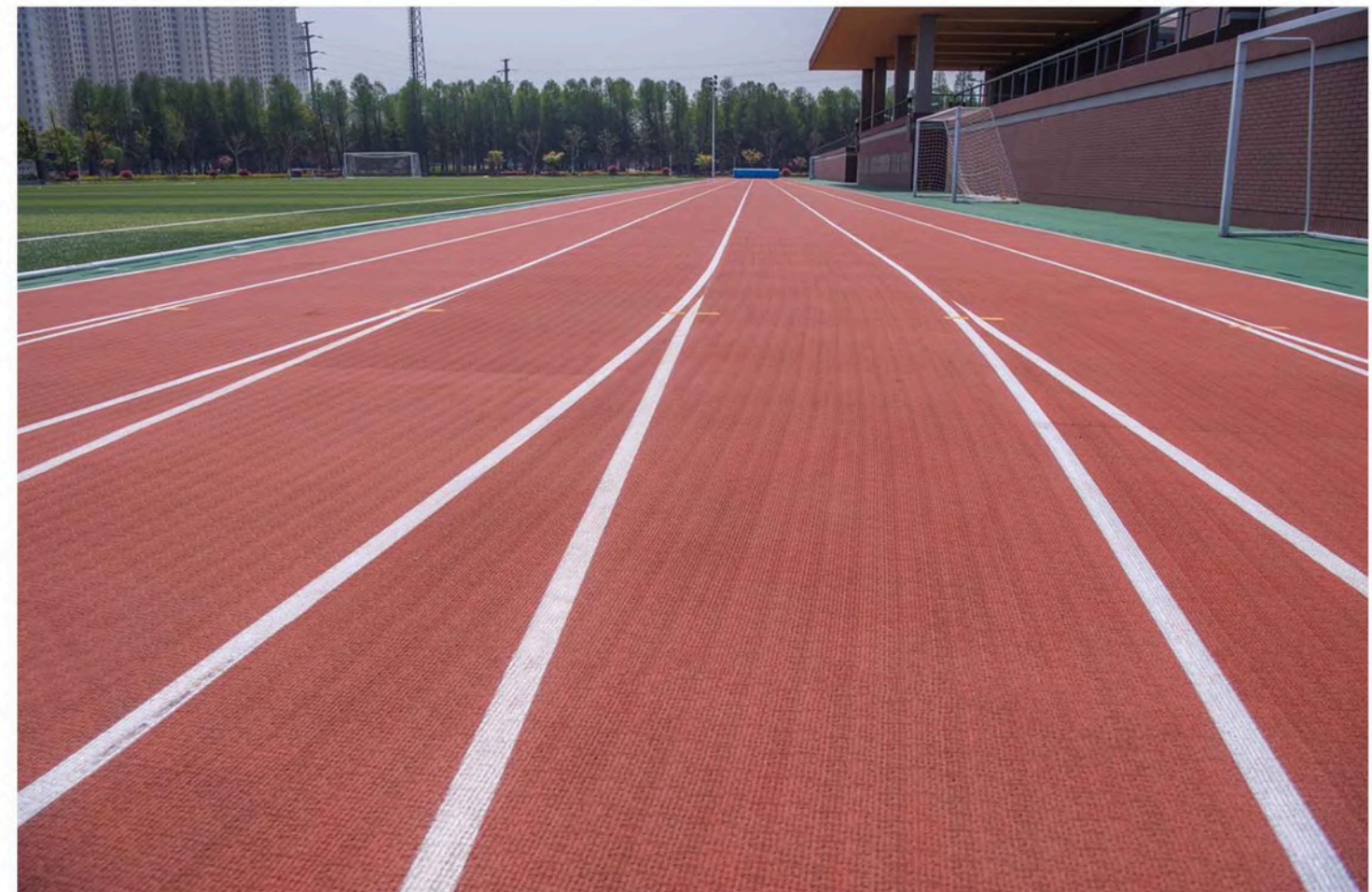
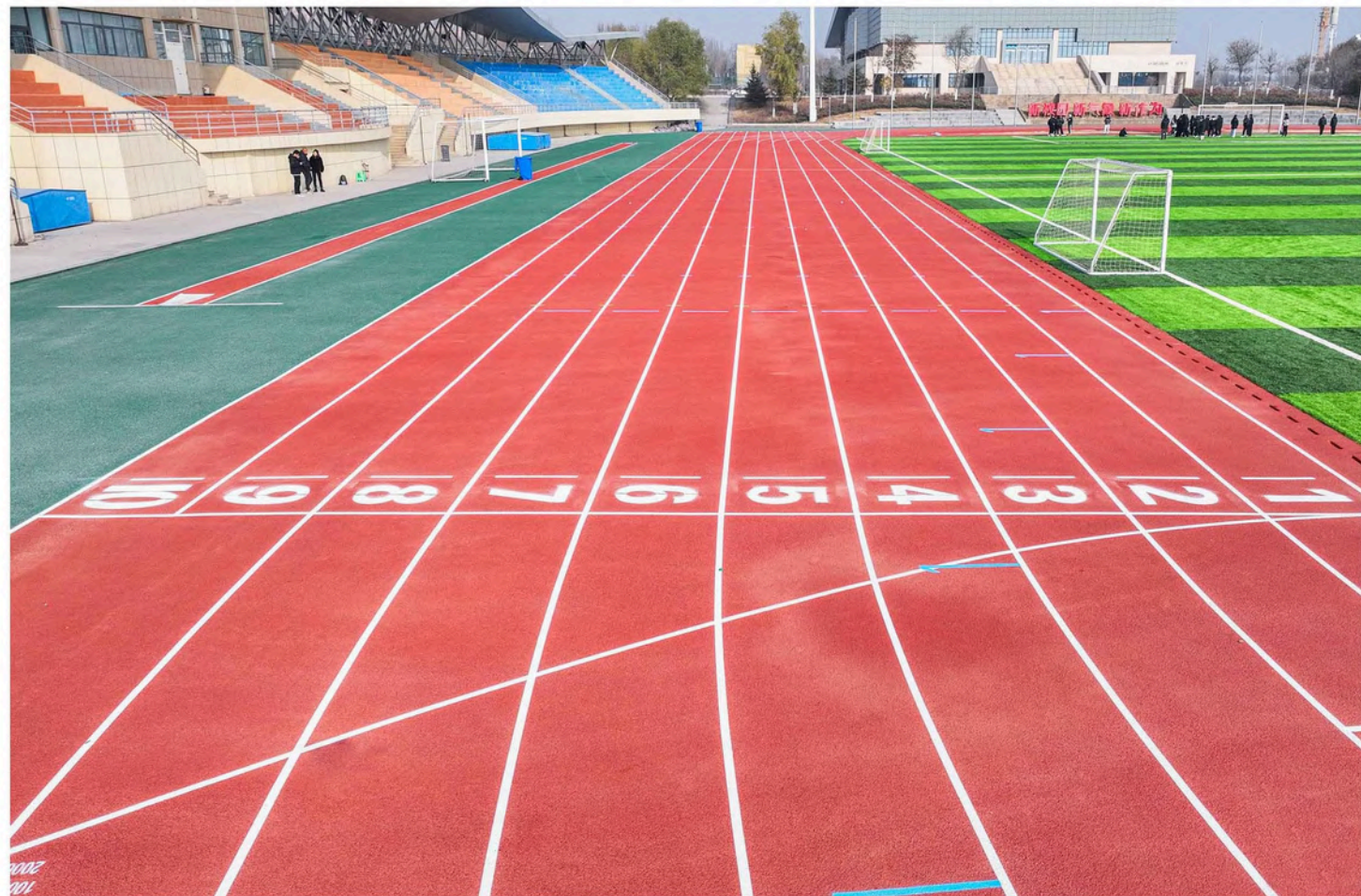


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