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# CLIMBING WALL CATALOGUE

拓有限自我 展无限未来



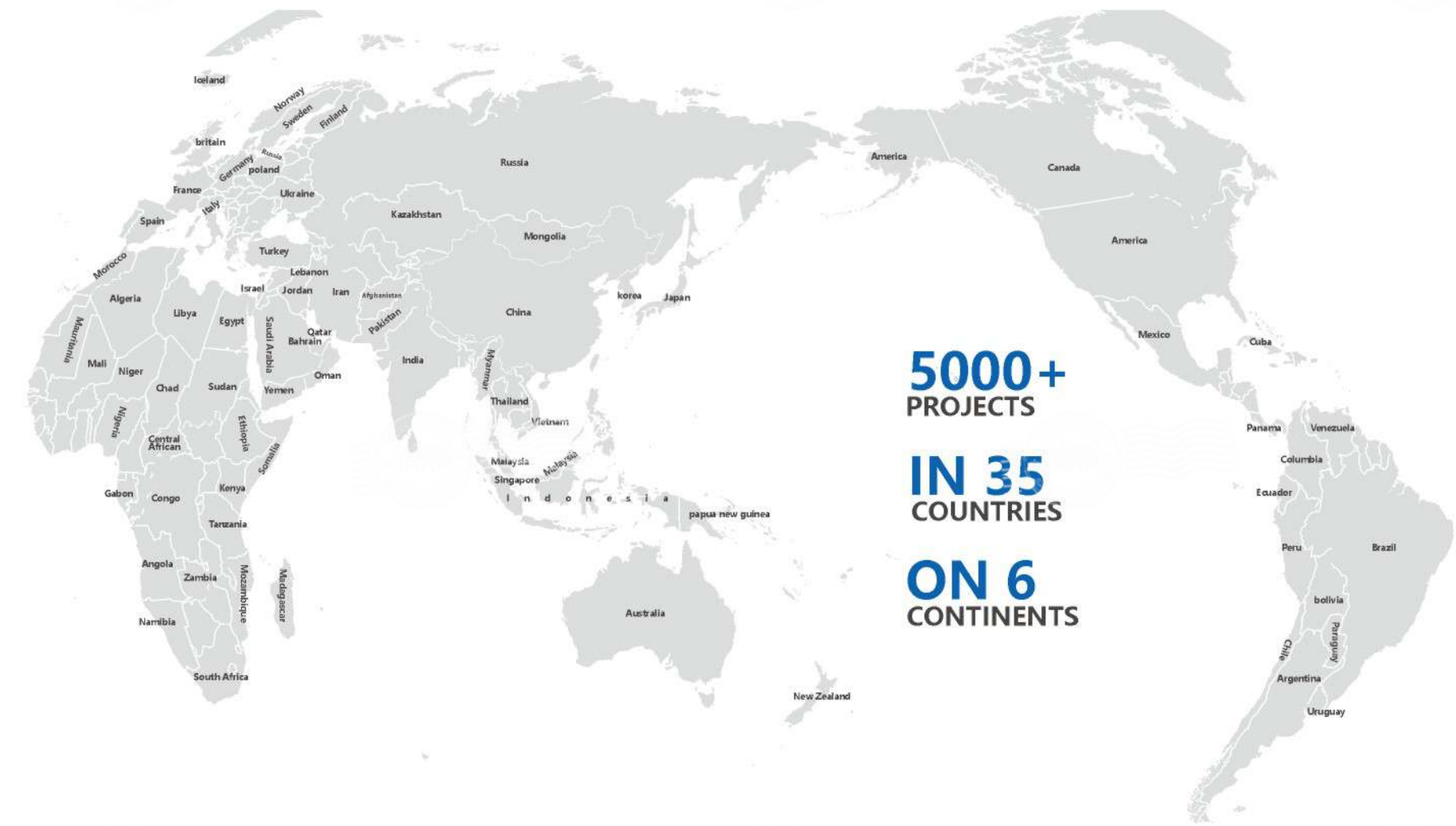
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www.toboclimbing.com



Bearing Capacity  
Of Top Protection

**≥ 8kN**

Bearing Capacity Of  
Anchor Bolt

**≥ 8kN**

Panel's Static Load  
Capacity

**≥ 4kN**

Panel's Dynamic  
Load Capacity

**≥ 6kN**

Hole's Tension

**≥ 3kN**

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Part I

# Company Profile



Founded:2007  
Factory Space Cover:27000m<sup>2</sup>  
Production Capacity:50million USD/year



As a professional enterprise specialising in design,production of ropes courses,climbing wall and other amusement equipments,we're committed to building an experiential education link,and serving customers with a comprehensive effective service system.





27 Patents

16 Qualifications

31 Honors & Awards

54 Inspection Certifications



## Workflow

ANSWER TECHNICAL QUESTIONS   DESIGN   APPROVED 3D MODEL   OFFER   ENGINEERING   PRODUCTION   SHIPPING   ASSEMBLING

space size,  
climber feature,  
climbing wall  
types,  
budget,  
opening time  
others

JP  
development  
designer

size,  
types,  
colors,  
others

Contract  
Revised  
timeline  
Payment

**ENJOY**  
YOUR NEW CLIMBING WALL



# Steel Frame Process



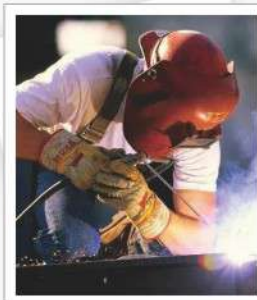
1. Sawing Machine Cutting



2. Laser Cutting



3. Plasma Cutting



4. Point Welding



5. Welding



10. Packageed



9. QC



8. Painting



7. Shoot Blasting

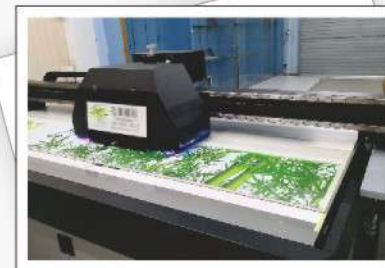


6. For Shoot Blasting

# Panel Process



1. CNC Carving



2. Color/Pattern Pint



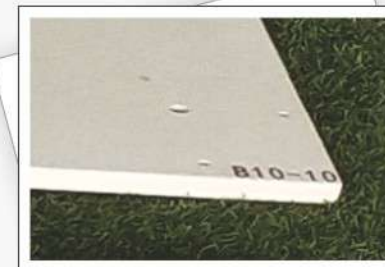
3. T-Nut Equipped



6. Packaged



5. QC



4. Number Marking



# Installation Process

The assemble construction process is illustrated through one of our finished projects - the outdoor climbing wall at Kiryat Gat, Israel.

## 01 | Delivery of materials



## 02 | Installation of main steel frame



## 03 | Installation of roof/platform



## 04 | Installation of panels





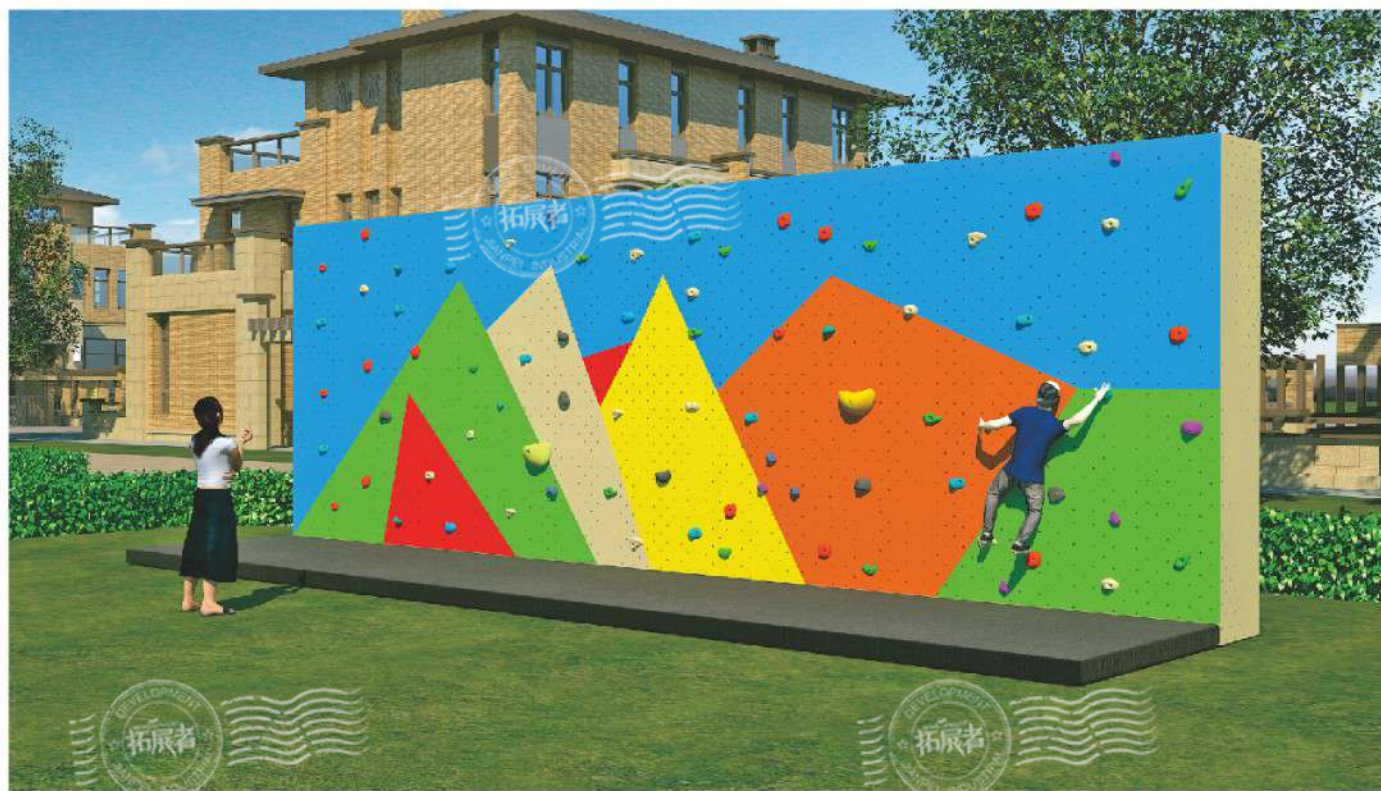


Part II  
**Climbing Wall  
Types**

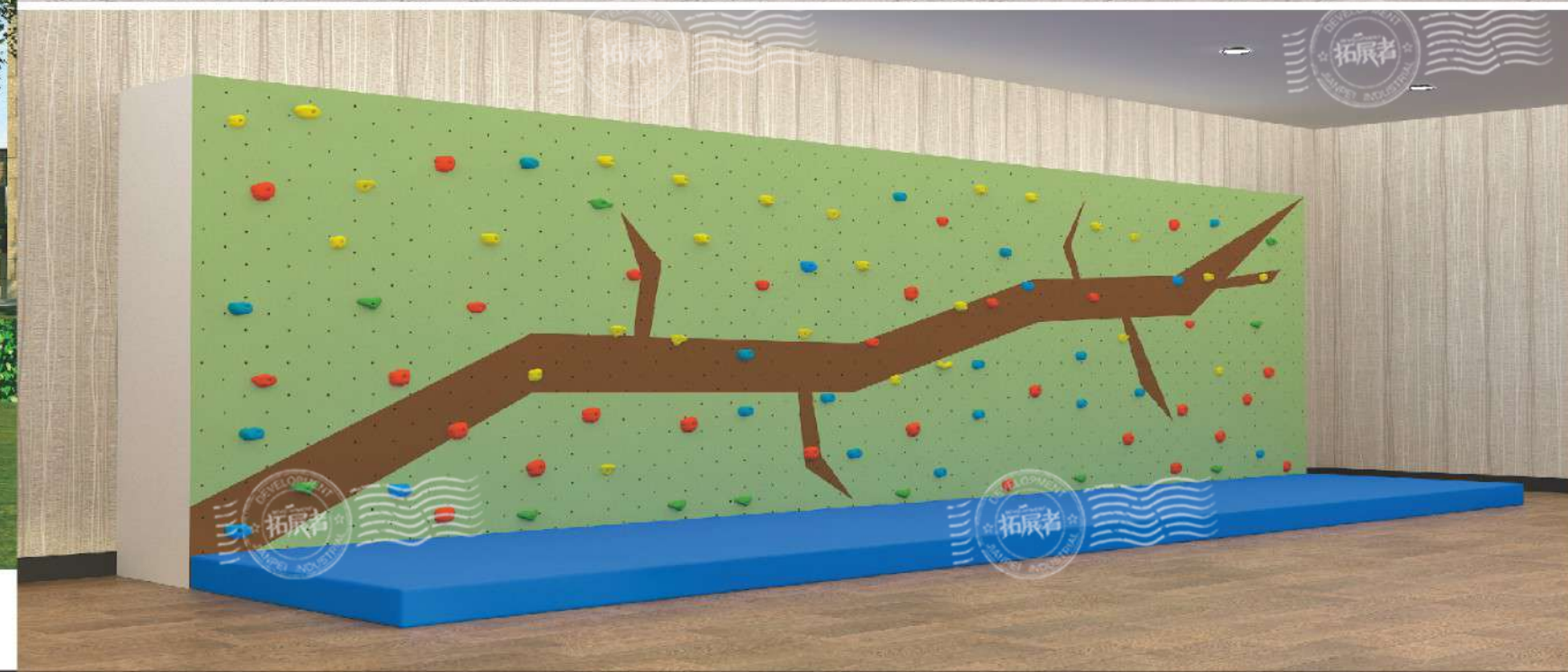
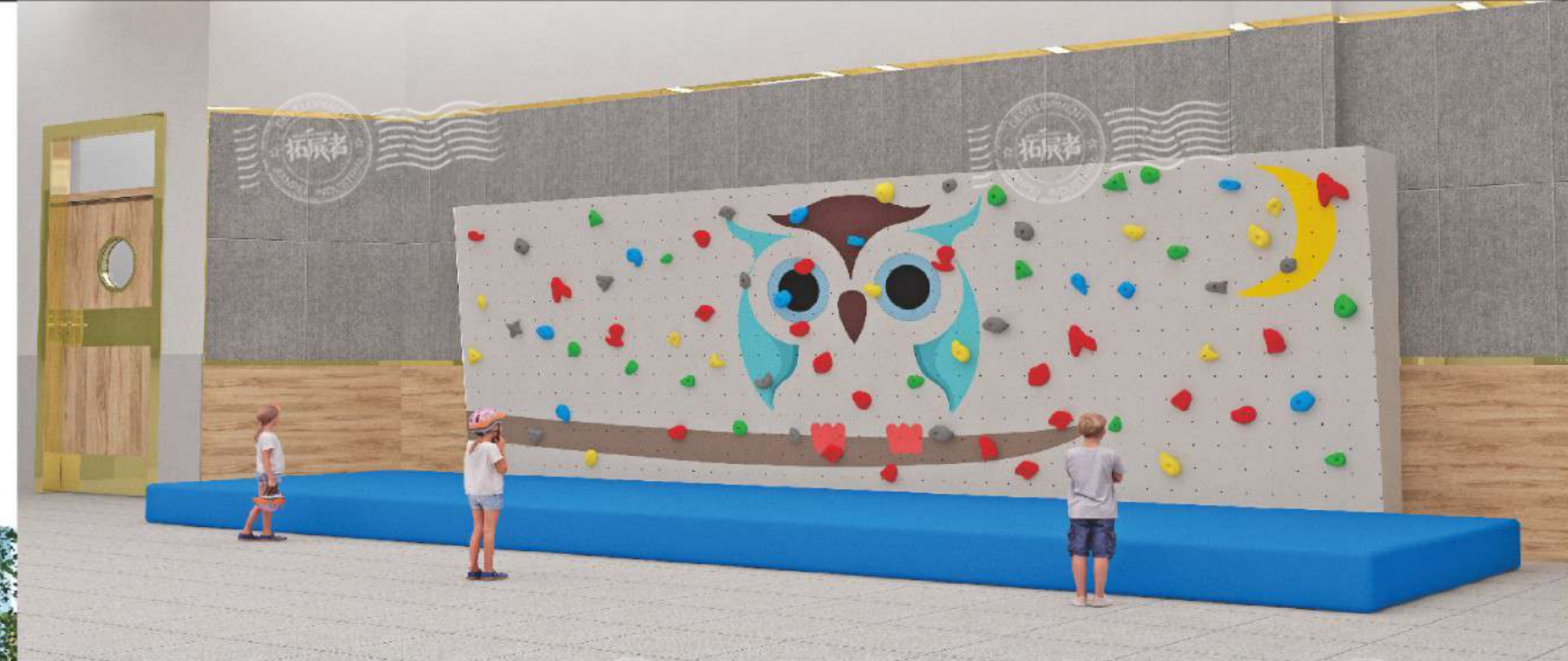


# Traverse Wall

A Traverse Wall is climbed horizontally, not vertically. The wall is 8' (2.44m) or 10' (3m) high and comes in sections to allow for any desired length.



The fun and challenge of a Traverse Wall is making it from one side to the other, rather than to the top. Climbers are never more than a few meters off the floor as they climb horizontally across the wall. No ropes or harnesses are needed. Traverse Walls can occupy and optimize a variety of spaces--from gymnasiums to classrooms to hallways.





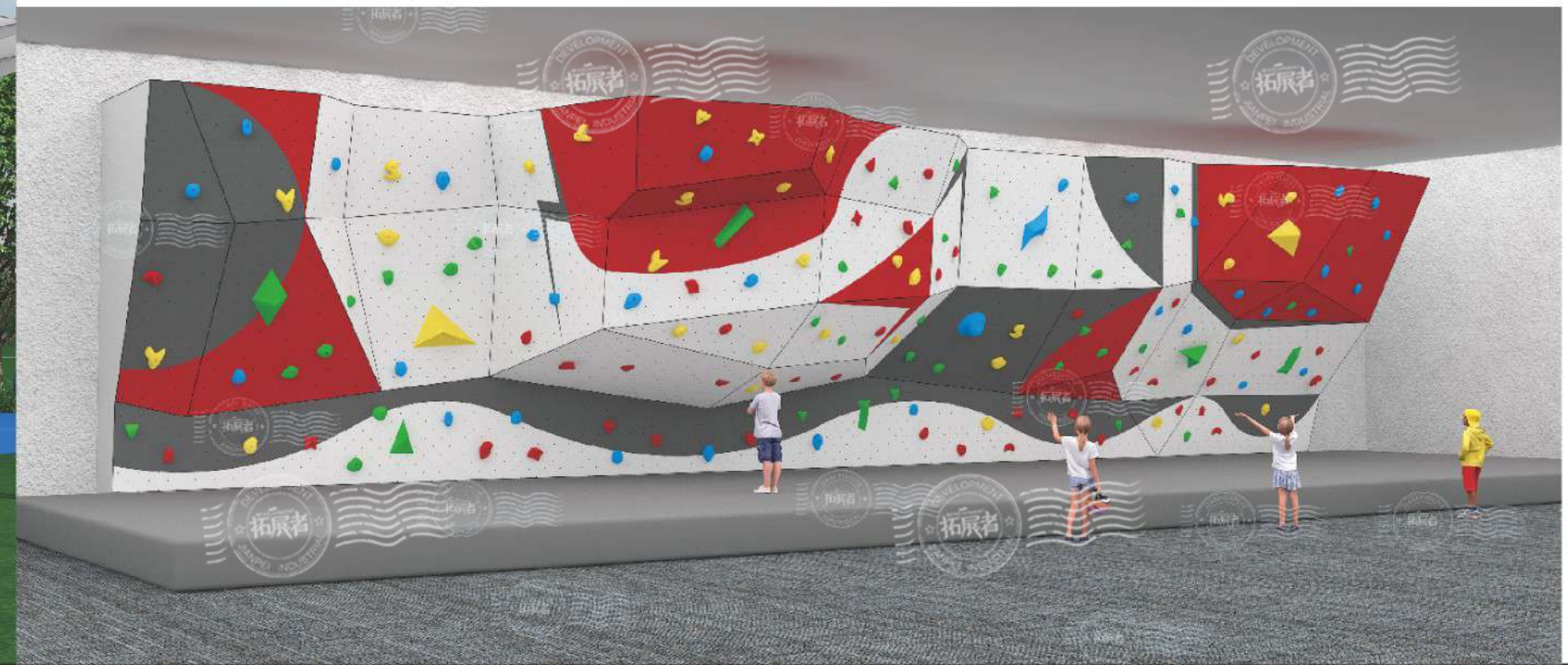
Bouldering walls are low height climbing walls provided with a fully fitted safety matting system and used without ropes by participants of all abilities. Bouldering is an increasingly popular form of climbing and can provide an engaging and accessible climbing experience for all.

This type of facility will usually incorporate a wide range of dynamic angles and features in keeping with the gymnastic nature of the activity.

## Bouldering Wall











## Top Rope Wall

A Top Rope Wall is a vertical climbing wall that requires a harness, safety rope or auto belay that anchors at the top. This type of wall is best suited for adolescent to adult climbers since a partner (belayer) is responsible for the safety of the climber through managing a safety rope. Top Rope walls provide vast opportunities for climbing skill development, positive risk taking, team building and trust building. They also promote courage, communication and social skills.

Every Top Rope Wall is custom designed to fit your space, facility and program needs,









# Speed Wall

Speed wall is the only climbing discipline that is uniquely focused on competition under IFSC. In recent years speed wall has gained popularity and many professional and non-professional climbing gyms are adding speed walls to their facilities.

**Attract professional athletes** - Professional athletes' needs gets entire teams coming to train and eventually turns them into loyal advocates for your gym.

**Giving the possibility to host or organize competitions** - Local, national, regional ... speed walls present multiple event opportunities.

**Diversifying the climbing experience** - Speed climbing is still a novelty for most unprofessional athletes, so having speed walls at your gym will allow them to try something new.

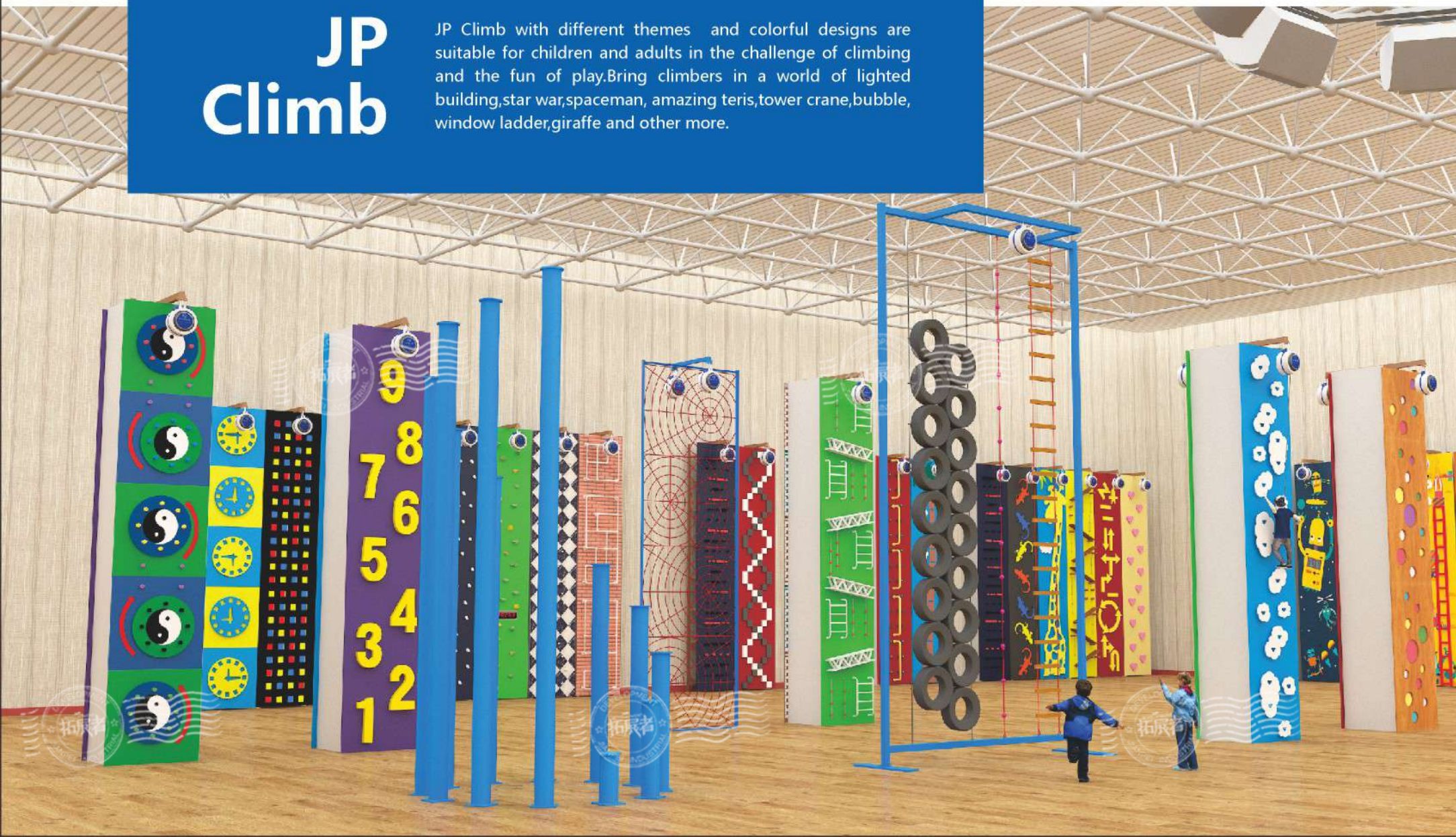
**Space optimization** - They are suitable for gyms of all sizes that have the required ceiling height. They could also serve as regular rope climbing walls and can feature many routes. When they are used for official competitions, only the speed climb route holds should remain.





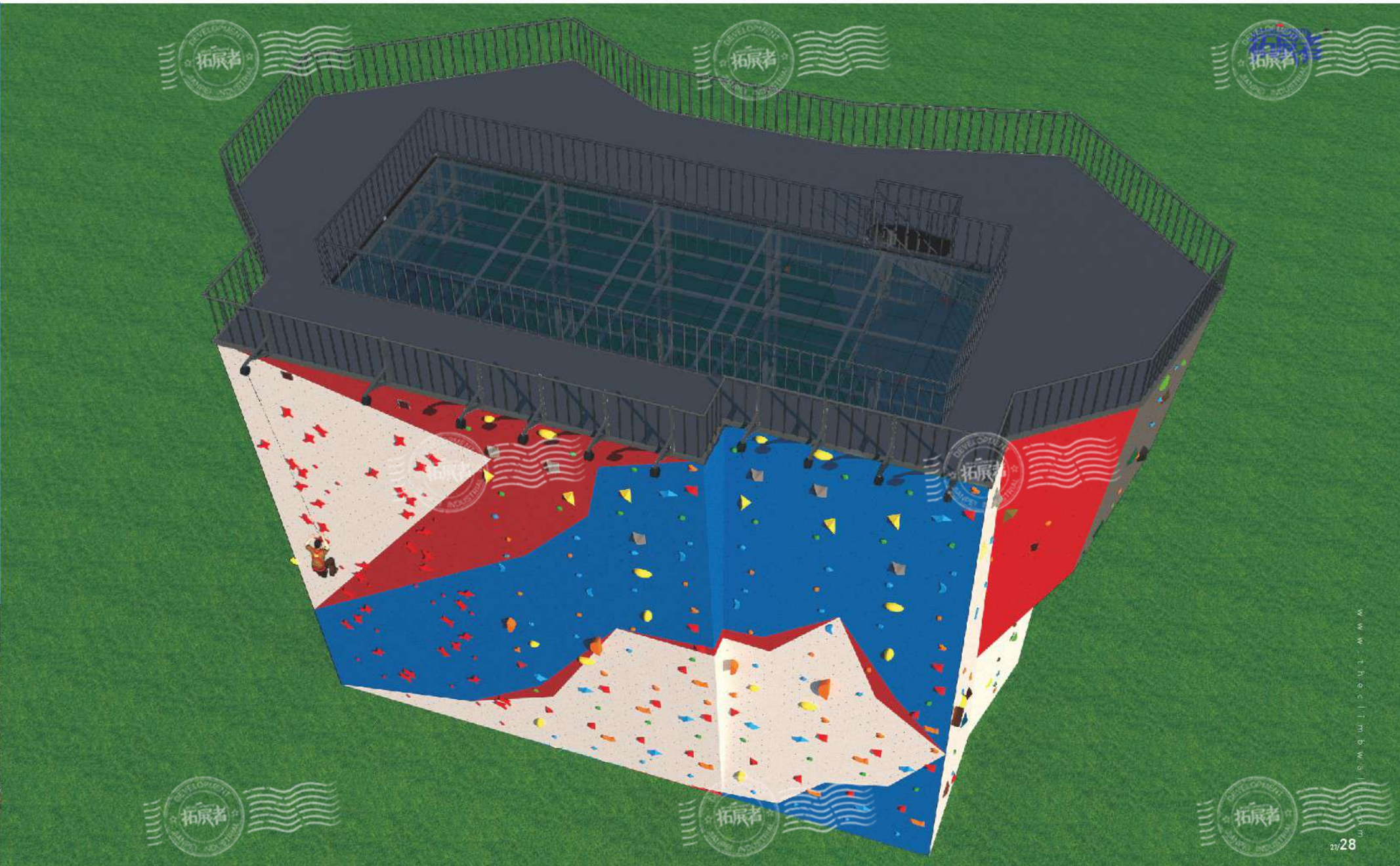
# JP Climb

JP Climb with different themes and colorful designs are suitable for children and adults in the challenge of climbing and the fun of play. Bring climbers in a world of lighted building, star war, spaceman, amazing teris, tower crane, bubble, window ladder, giraffe and other more.

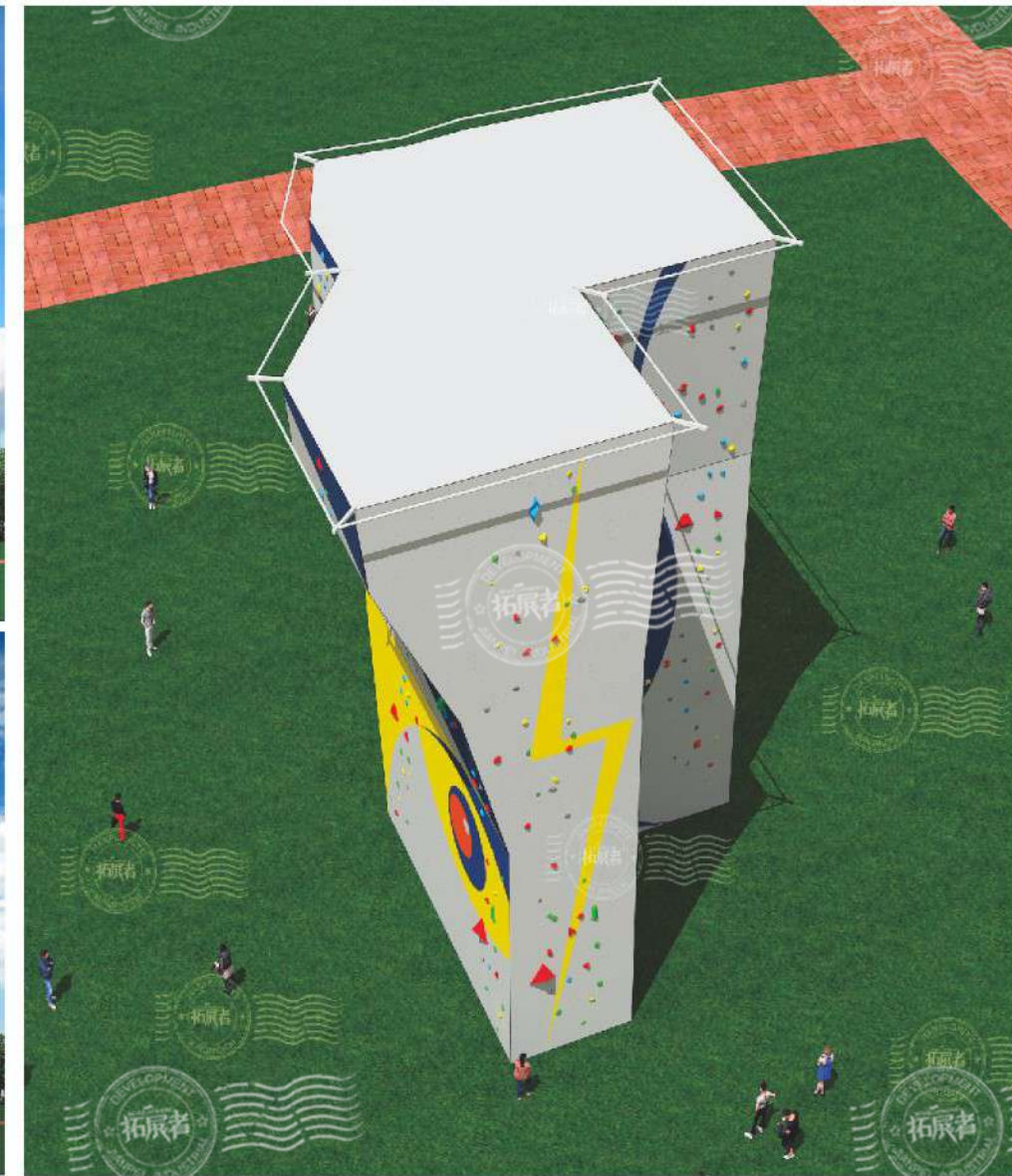




# Customized Climbing Walls











Part III  
**Techniques**

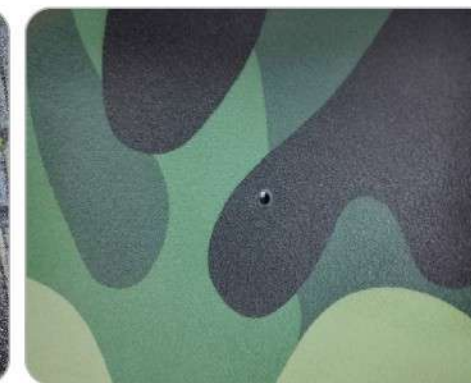
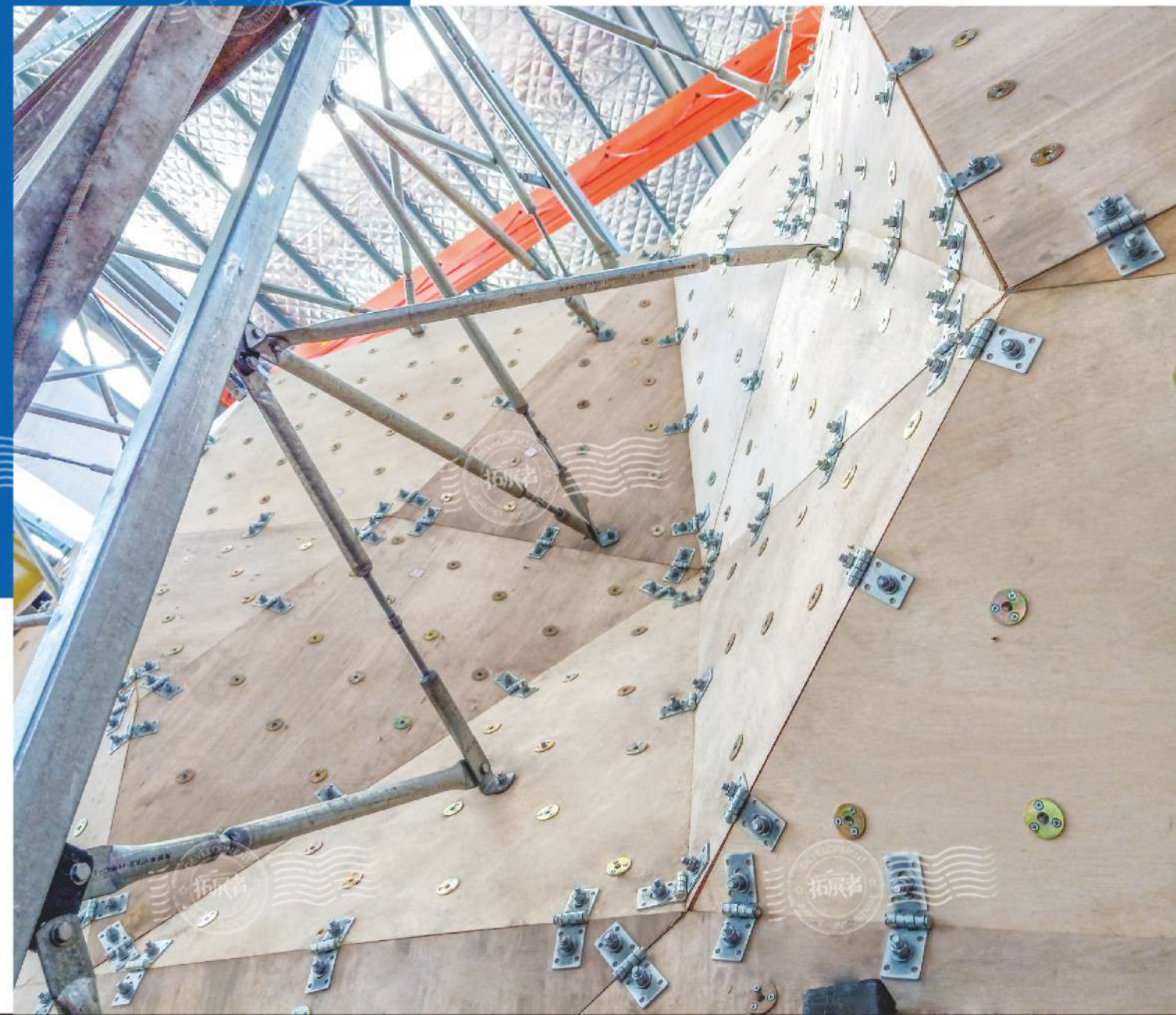




At JP Development, we give special attention to all details, including the seams between panels, metal connectors, the T-nuts, the anchors, the belay bars, the edges and the surface itself. We believe the perfection comes from the synergy between design, manufacture and technical details. In accordance with EN12572-1/2 :2017

## Steel Frame

Galvanized Steel Frame , Assemble , Flexible , Longer Lifespan , Easy Installation .



## Panel

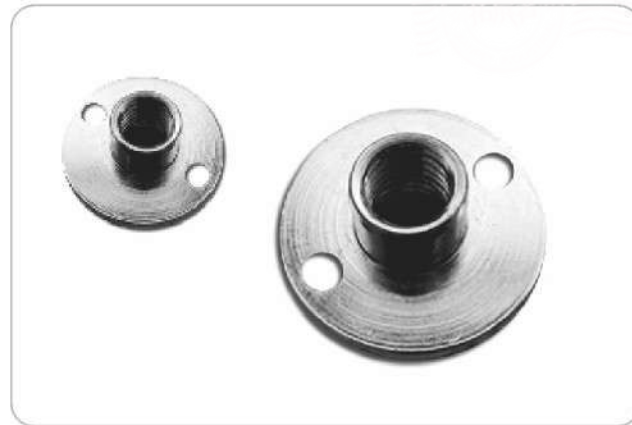
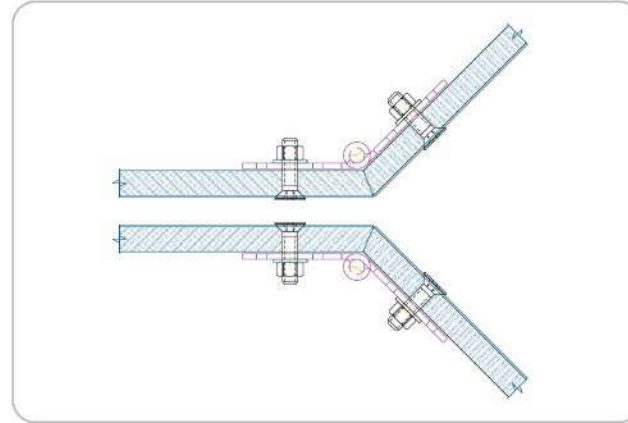
CAD drawings and CNC precision cutting tools are used to create complex and dynamically shaped climbing walls. Designed and constructed using a combination of geometric shapes and angles the climbing wall panels are fitted with a dense fixing grid for bolt on holds and maximum route setting potential.

Suitable for all types of facility from bouldering to tall roped walls. Allow for placement of all size handholds with high density of holes.



## Corners

We seek perfection in every small detail and make sure all corners are met perfectly well and no undesired space is left between panels

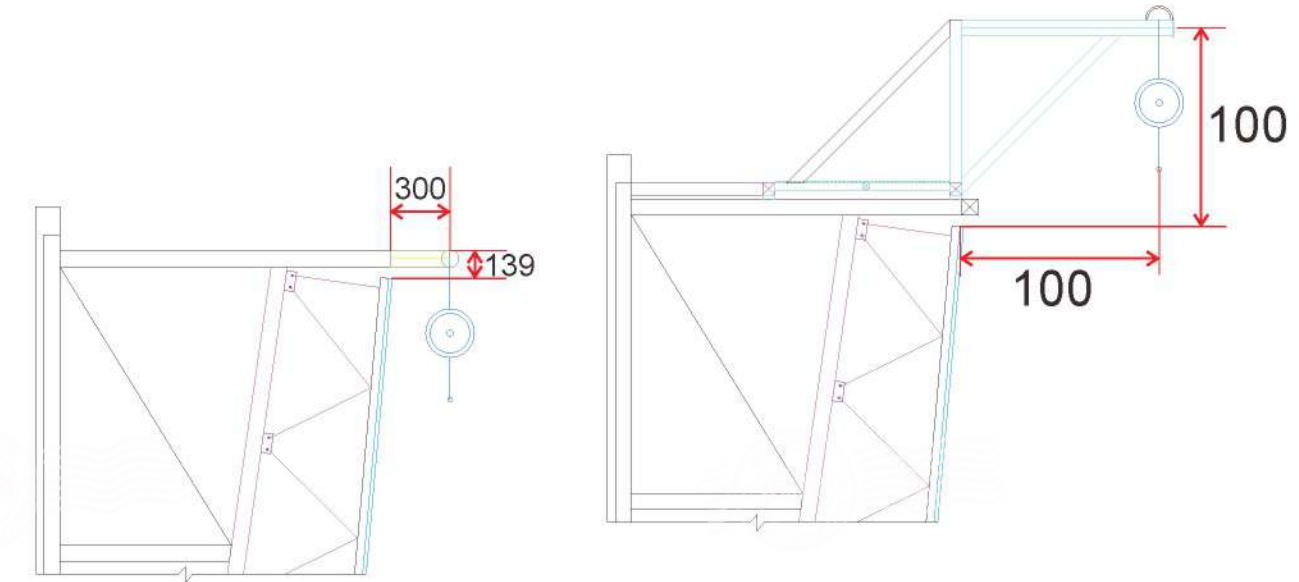


## T-nut

We make sure there are always enough t-nuts around the corners so that the wall makes no compromise with the route setting opportunities. We have a solution to this and we can place t-nuts close to the edges and corners

## Bolt

Performance Rating: 8.8  
Tensile Strength: 800MPa  
Yield Strength: 640MPa



难度道保险杠

速度道保险杠

## Climbing Protection/Anchors

Double Ways for Top Roped Wall and Speed Climbing Wall.  
Flexible for operation.

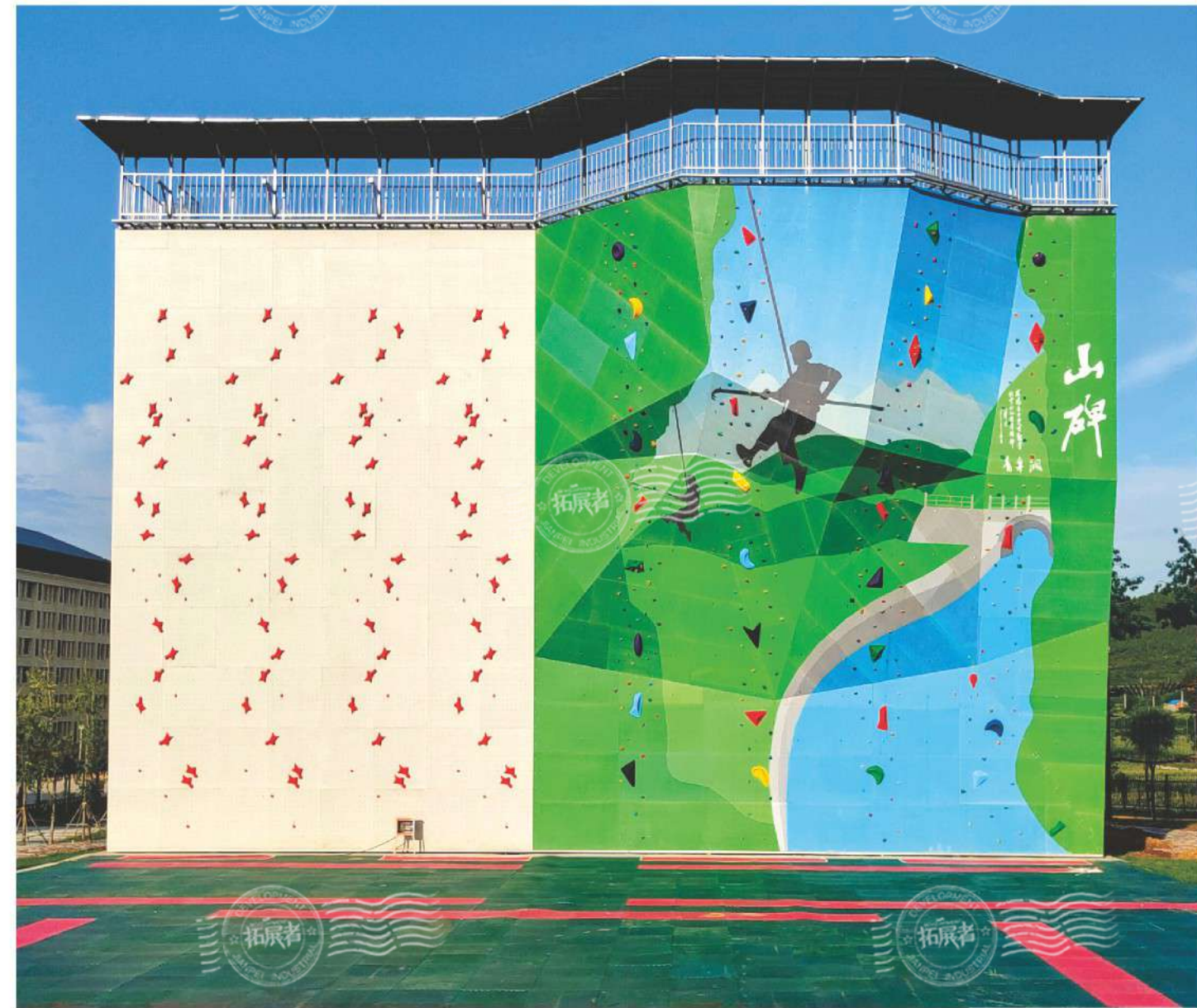


# Custom Paint

Think of any combination and we can make it happen.  
With Ropesadventure's custom paint you can have a number of different colours no matter of the complexity of the shapes on every single panel.  
More than 5 layers paint on layers of polyester resin and sand panel







Customized Unique Typical  
Customized Climbing Wall