# TSP-5116

## Grande Bridge

Challenging ropes structure model Grande Bridge

Recycled HDPE:

Steel:

Rope Cables:

Hanging

Balancing

Climbing

Jumping



Ages 5-12

Users 24

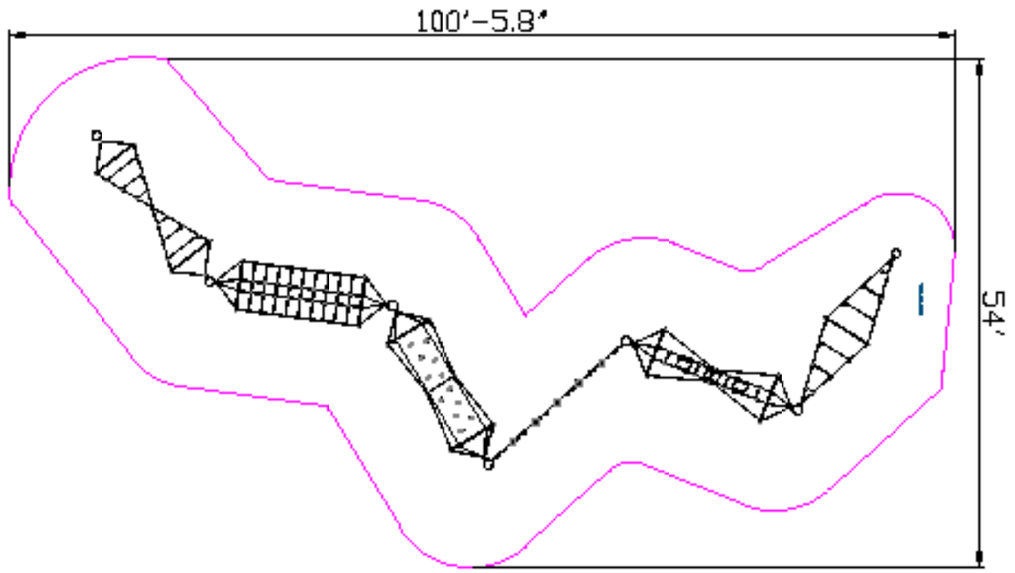
Dimensions L: 84'-0.8" W: 35'-0.9" H: 10'-3.6" | cm L: 2627 W: 1096 H: 322

Safety Zone 100'-5.8"/54' | cm 3060.7 / 1645.92

Fall Height 6.72" | 210 cm

Accessible

The Grande Bridge extreme play structure is designed primarily for older teens. It is made from high-quality materials that are durable for heavy use. The posts are made of steel with a diameter of 8 inches and a wall thickness of 4 mm, topped with decorative HDPE covers. The connections between the posts are made from cast steel and are welded to prevent joint collapse. Above this connection, there is a decorative and modular HDPE connector that gives the structure a luxurious appearance. The cables are made from steel cores coated with a polyester material that is pleasant to touch, with a thickness of 18 mm. The ends of the cables are connected using aluminum ball connectors to protect against wear, and the walking areas are made from aluminum rods and multi-layer rubber straps.








## Steel

Steel structure that is strong and durable, oven-painted galvanized and coated with lead-free polyester powder for corrosion and rust resistance. The steel meets strict EN 1176 standards, ensuring high quality and safety. The steel is anti-vandalistic, requires minimal maintenance, and is fully recyclable. The high-quality paint ensures weather resistance and maintains a new appearance over time.



## Rope Cables

Rope Cables are made of synthetic polypropylene (PP) fibers combined with a galvanized steel core for improved strength and durability. They meet strict standards, such as ASTM A240 and EN 10088, ensuring durability and safety for use in playground equipment. . The cables offer a soft and pleasant touch that does not harm the hands during use and are available in various diameters and colors, allowing for creative and aesthetic design.



## Recycled HDPE

HDPE (High-Density Polyethylene) is a recycled material made from high-density polyethylene, produced from recycled materials that allows for further recycling. It excels in resistance to UV rays and wear and tear, making it particularly suitable for use in outdoor playground equipment. Its touch is smooth and pleasant, and its appearance is maintained over time. The advantages include high resistance to harsh weather conditions and environmental preservation. The material is capable of absorbing high energy, which helps prevent fractures.



## Transition Bridge

The transition bridge provides players with the challenge of crossing safely, while developing balance and coordination skills. The bridge combines height and adventure, encouraging players to maintain stability during the crossing.



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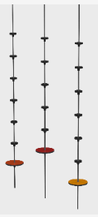

## Designed Climbing Element

The designed climbing element combines physical challenge with a unique and inviting design. Players develop physical skills such as strength, coordination, and balance while playing in a creative and designed environment. The unique design encourages players to play and explore, fostering their imagination and creativity.



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## Hand and Foot Holds

Hand and foot holds provide support during play and use of the structure. Players develop their strength and coordination while maintaining stability and security.



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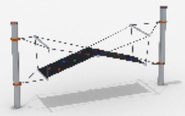

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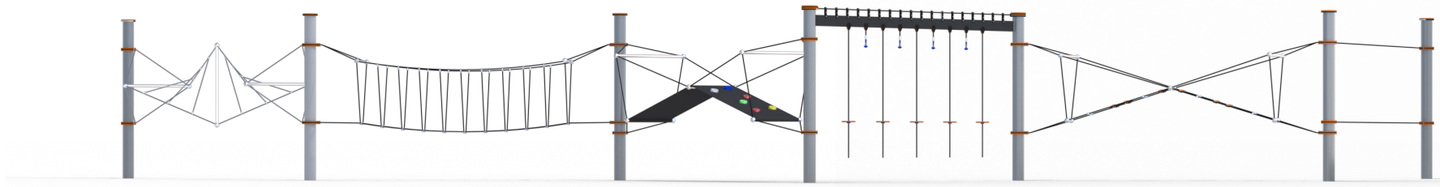



### Motor Development

Core muscle strengthening- Strengthening abdominal and back muscles through challenging equipment. Foot-eye coordination - Improving coordination and balance through various equipment. Hand-eye coordination - Developing coordination and precision in activities requiring fine motor skills.

### Cognitive Development

Concentration- Developing the ability to focus and maintain attention in equipment requiring concentration. Spatial awareness- Improving the ability to understand and navigate space through mazes and courses..

### Emotional Development

Courage- Facing fears and new challenges. Confidence- Building self-confidence and belief in one's personal abilities. Independence- Developing independence and the ability to make personal decisions. Patience- Practicing patience and waiting for one's turn.  Resilience- Coping with failure and trying again.

### Social Development

Respect for boundaries- Learning the importance of respecting personal and social boundaries. Friendship creation- Creating friendships and strengthening social bonds. Respect for boundaries- Learning the importance of respecting personal and social boundaries. Friendship creation- Creating friendships and strengthening social bonds.

### Physical Development

Climbing - Strengthening arm and leg muscles, developing fitness and endurance  Jumping- Improving leg strength and balance.  Balancing- Improving balance and posture. Hanging - Strengthening arm, back, and shoulder muscles.