

woody

NATURAL

GENERAL SPECIFICATIONS



A.Post: Square High density Aluminum 2.55" x 2.55" (65mm x 65mm)

B.Panel: Hard Wood

C.Deck: Hard Wood

D.Stair: Hard Wood

E.Slide: Rotationally molded, LLDPE

1. Material

All materials using in the playground and outdoor setting are finished and manufactured by painted, galvanized, electric zinc coating, PVC coating and antirust materials to keep the physical and chemical property. All materials are constructed of materials to recycle (95-100%).

We select and use raw materials which admit by an internationally authorized organization.

2. Polyester Powder Coating

Polyester powder coating is electro statically applied at average thickness of 80µm. Polyester powder coating produces a hard, smooth surface, which is resistant to abrasion corrosion and mechanical damage. All components shall be free of excess weld and weld spalls. After fabrication all weld joints are thoroughly hand finished and cleaned to remove all weld slag from weld joint.

3. Posts

A) Primary Posts are High intensity Aluminum post (for combination playground structure)

Shall be O.D 114mm(4.5") x Thickness 3.2mm aluminum post tube and applied polyester powder coating.

Secondary Post are O.D 114 Galvanized steel post (for Reaction and Teenager park series)

B) Metal Pipewalls, Railings and Climbers

All pipe walls and railings shall be OD33.2mm x 2.5mm aluminum, with a baked-on electro-statically applied polyester powder-coated finish.

C) Accent Tubing and Rails

All accent tubing shall be galvanized steel tubing with a baked-on electro-statically applied polyester powdercoated finish.

a. O.D33.2mm(1.3") x T2.5mm(0.1") galvanized steel tube

b. O.D43.2mm(1.7") x T2.5mm(0.1") galvanized steel tube

c. O.D48.5mm(1.9") x T2.5mm(0.1") galvanized steel tube

d. O.D73.6mm(2.9") x T2.5mm(0.1") galvanized steel tube

4. Post Cap

Shall be injection molded low density polyethylene and rest stabilized against ultraviolet (UV).

The plastic post cap shall have the manufacturer's trademark applied to identify the source of the product

[O.D114mm(4.5"), 48.5mm(1.9"), 43.2mm(1.7")]. Natural park system (NP) post cap shall be Die Cast only.

Post caps will be factory installed.

5. Die Cast Clamp

Shall be die cast clamp and of high strength 380 aluminum alloy. Clamp shall be finished with an electro-statically applied polyester powder coating.

Clamp shall be provided as hinged assemblies to facilitate structure assembly.

6. Hardware

Bolts, nuts and fastenings are stainless steel (SUS300Series). We use TORX (correction) Bolt to prevent mischief.

Adhesive is painted on them, along with a LOCK NUT to ensure a higher degree of safety.

A nylon thread-locking patch is applied to certain hardware.

Bolts, Nuts, Screws, Washers and other hardware used in the assembly of components shall be metric stainless steel and tamper resistant. All necessary hardware shall be provided.

7. Deck and stairs

A) Steel

Shall be fabricated of 12gauge perforated hot-rolled steel into a single unitized deck. Decks are Electro-galvanized coating and PVC coated after fabrication. Coating thickness of 2.5mm(2.5") {±0.2mm}.

PVC coating is containing ultraviolet stabilizers.

B) Hard wood

Tropical hard wood (no preservation) has durability for more than 10 years without protective finish, and applied nature wood stain, it weather resistant protection on wooden surface, No toxic emissions from biocides, metals or petrochemical solvents. No risk of biocide or metal poisoning from licking or chewing. No paint smell and you can smell natural smell. It is excellent protection of environment protection. Wooden deck use for Wood Story series.

8. Panel

A) Polyethylene plastic (PE) sheet panel

19mm(0.75")sheet polyethylene parts are stress-relieved high-density polyethylene with ultraviolet (U.V) light stabilizers. Compression molded panels shall meet density ASTM-D-1505, tensile strength ASTM-D-636. Panel treated C.N.C sculpture to various patterns and has various things from 35.4" wide 43"-70"height.

B) Wood (for Natural Park system)

Natural wood colored panel: Tropical hard wood (no preservation)has durability for more than 10 years without protective finish, panel applied U.V graphic print on wood panel. U.V graphic is free of volatile or toxic chemicals and no preposterous treatment is needed. U.V graphic has excellent outdoor without discoloration of fading. After printing U.V graphic, we do special coating on panel to extent life time.

C) Rotationally molded panel

Shall be rotationally molded from color-compounded, linear low density polyethylene with ultraviolet (U.V).

D) Recycle plastic panel (for Green House Play system)

Panel frame shall be fabricated with 25mm(0.98") thickness of recycled polyethylene sheet after injection.

9. Rotationally molded part

Rotational molding refers to method of manufacturing hollow plastic product.

It is appropriate for processing a wide especially used for large-scale tanks with complicated exteriors.

Rotational molding grades are provided either as pellets or as powder of uniform particle size. These grades offer superb process ability due to good melt flow ability.

Various properties produce roofs, slides and panels as well.

It shall be rotationally molded from color-compounded, first quality, linear low density polyethylene with ultraviolet (U.V). Average wall thickness is 5.8mm(0.23") and complies with ASTM-D-638(Tensile Strength), ASTM-D-790 (Flexural Modules of Elasticity), ASTM-D-648 (Heat Distortion Temperature), D-2565(Ultraviolet), and D-1505 (Density).

10. Compound Rope

Compound rope shall be 18mm (0.7")-round stand rope has got 6 external standards dia 2.5mm(0.09") 1x19 1770N /mm² and a steel core dia 6mm(0.23") 6 x19 1770 N/mm².

Red, Blue and Black colors are available.

11. PVC Coating

PVC (Polyvinyl Chloride Coating) is applied to deck and chains. It is highly anti-corrosive, weather resistant, and prevent to slippage. Also, our PVC material complied with the Consumer Products Safety Act in USA and products contain less than 0.009% lead.

12. Chain

A) Stainless steel

Chain shall be 5mm(0.2")thickness and 6.9mm x 31.7mm(0.27" x 1.25") Inner dia stainless chain SUS304.

B) Steel

Chain shall be 5mm(0.2")thickness and 6.9mm x 31.7mm(0.27" x 1.25") Inner dia steel chain

13. Roofs

A) Rotationally molded

Roof shall be a double-wall construction.
The roof shall be rotationally molded from linear low density polyethylene.

B) Polyethylene plastic (PE) sheet

19mm(0.75”) sheet polyethylene parts are high-density polyethylene with ultraviolet (U.V) light stabilizers.
Compression molded panels shall meet density ASTM-D-1505, tensile strength ASTM-D-636.
Panel treated C.N.C sculpture to various patterns on panel.

C) Wood

Tropical hard wood (no preservation) has durability for more than 10years without protective finish and roof treated C.N.C sculpture to various pattern on roofs.

14. Totter Spring

Shall UV-resistant zinc phosphate and powder coated. Ground anchor made of individual hot-dip galvanized.

15. Outdoor Fitness equipment (SUPREME X-Fitness)

- Rotationally molded polyethylene with UV light inhibitors
- Polyester powder coated on high-density hot dip galvanized steel tube.
- Sign panel shall be UV resistant graphic on polycarbonate sheet.
- Urethane rubber handgrips
- Aluminum cover used

16. Anchoring

All products can be anchored directly to the concrete or asphalt surface with optional anchoring kit.

Material information per product series

Material	Adventure Series	Wood Story series	Union Play Systems	Wood Play systems
LLDPE(Linear Low Density Polyethylene) Rotational Molding Plastic	0	0	0	0
High-Intensity Aluminum(A6UL1) for Post, Handle, Platform, Angle, Clamp etc.	0	0	0	0
HDPE(High Density Polyethylene) Sandwich Panels	0		0	0
Hard Wood		0		
Hercules Combination rope(UV Polyamid)		0	0	
Stainless(SUS304) Steel	0	0	0	0
Glued-laminated by high Frequency Post		0		
Stainless Torx Bolt, Nut	0	0	0	0
PVC(Polyvinyl Chloride) Coating for Stainless Steel Components	0	0	0	0
UV Polyester Powder Coating	0	0	0	0
Galvanized Zinc Coating	0	0	0	0

Note)

All products can be anchored directly to the concrete or asphalt surface with optional anchoring kit. Specifications were in effect at time of printing, however, due to our commitment to product improvement, innovation, value, and safety.