





September 26, 2022

North Pike Upper Elementary School  
1052 Jaguar Trail  
Summit, MS 39666

Re: Playground Equipment for North Pike Upper Elementary School

Enclosed please find our proposal for a new playground structure at North Pike Upper Elementary School.

Bliss Products and Services, Inc. has over 38 years of experience in installing playgrounds such as the ones we are proposing. We have worked with Play & Park Structures, the playground manufacturer, for over 13 years and have formed a great working relationship with them. Working with Play & Park Structures on this specific bid, we curated two custom play spaces designed for the children who attend North Pike Upper Elementary School.

Please do not hesitate to contact us with any questions. Should any arise, please contact our Bid Manager, Kristen George. She can be reached via phone at 800-248-2547 or by email at [kristen@blissproducts.com](mailto:kristen@blissproducts.com).

We look forward to the opportunity to work with you on this project.

Sincerely,

Gregg Bliss  
President  
Bliss Products and Services, Inc.  
800-248-2547  
[gregg@blissproducts.com](mailto:gregg@blissproducts.com)  
[www.blissproducts.com](http://www.blissproducts.com)





## Project Approach

After reviewing the bid, Bliss Products came to understand that North Pike Upper Elementary School is looking to purchase new playground equipment for their students. We worked with our playground manufacturer, Play & Park Structures to provide two options for the school's review.

Option 1 is our Four Square playground structure, complete with five slides, six climbers, a crawl tunnel, an ADA transfer station, multiple interactive panels, three ground level components and plastic roof canopies.

Option 2 is our Mystic Maze playground structure, featuring play components from our Boulderscape line (rocks and boulders), climbing nets, an overhead ladder, an ADA transfer station, five slides, two additional climbers, and fabric shade canopies.

Each playground structure quote includes plastic playground borders, engineered wood fiber mulch, and professional installation.



# Project Timeline

Below is a general outline of a typical playground installation schedule and anticipated time frames for completion of a project this size. We have been very successful in managing the manufacturing and installations of small and large play/recreation projects in the past and will ensure this one will follow suit, with timely completion and accurate installation. By continuously having open communication, the entire process will be seamless. Timelines are based on estimated completion times, weather permitting.

Our manufacturer, Play & Park Structures, is currently working at an 8 week lead time. The playground equipment is manufactured in Fort Payne, AL.

Week Count	1	2	3	4	5	6	7	8	9	10	11
Receive NTP											
Playground Manufacturing											
Playground Shipping											
Installation of Playground and Surfacing											





Bliss Products and Services, Inc  
6831 S. Sweetwater Rd.  
Lithia Springs, GA 30122  
(800) 248-2547  
(770) 920-1915 Fax

Quote # **63706**

Sales Rep: Will McNeer  
will@blissproducts.com  
C: (901) 515-8767

**North Pike School District**

**Date** 9/13/2022 **Project** North Pike Upper  
Elementary School  
Playground

**Bill To**

North Pike School District  
1036 Jaguar Trail  
Summit, Mississippi 39666

**Ship To**

North Pike School District  
North Pike School District

**Contact**

Jay Smith  
Phone: (601) 276-2216

**Approximate Ship Date**

**Ship Via**

**Terms**  
Net 30

Vendor	Part #	Description	Qty	Unit Price	Extended Price
APS	APS-Border12	12" Playground Border with Surfacing Guide and Spike	35	\$32.00	\$1,120.00
BPF		Permitting	1	\$1,750.00	\$1,750.00
BPS		Signed/Sealed Engineering Drawings	1	\$750.00	\$750.00
INS		Installation of Playground, Borders, and Mulch	1	\$22,990.00	\$22,990.00
PPS	645-154780	Four Square Playground Structure MSRP \$76,913	1	\$53,839.10	\$53,839.10
PPS		Material Surcharge	1	\$10,707.20	\$10,707.20
ZEA	341035	70 Cubic Yards of Engineered Wood Fiber Mulch	1	\$1,400.00	\$1,400.00

**Sub Total** \$92,556.30  
**Freight** 7,010.42  
**Tax** 0.00

**Taxable Subtotal** \$99,566.72

Financing as low as **\$2,309.95** / month may be  
available pending credit approval.

**Grand Total** \$99,566.72

- Due to volatility in raw material pricing, this quote is only valid for 30 days unless otherwise noted.
- Due to instability in material procurement and manufacturing, verbal or written lead times are subject to change.

Sales tax exempt certificate will be required for exemption. All orders are subject to approval and acceptance by the manufacturer. Deposits may be required. Add 3% to total for charge card transactions. Manufacturing lead times will not begin without an actual shipping address, color and mount selection, approved purchase order or fully executed contract. Customer will need to coordinate with freight carrier if unloading or inside delivery is required. Damaged or missing parts must be noted on the bill of lading at the time of delivery. A finance charge of 1.5% per month will be added to all invoices past due. Return items are subject to manufacturer's policies and may result in freight and restocking fees.

Signed quote will not be accepted for orders over \$500.

**Install Conditions - Unless otherwise noted:**

- Site should be clear, level and allow continuous access for delivery, materials and equipment. A space must be provided for the staging and secure storage of equipment within a reasonable distance to the jobsite.
- Installation price based on a single mobilization and unrestricted work hours. We can accommodate special requests but they may result in additional labor costs.
- Installation requiring footers are based on normal soil conditions. Rock, coral, asphalt, foundations, pipes, underground utilities, poor soil conditions, and poor drainage may incur additional charges.

- Bliss will call for public locates but the customer is responsible for locating and identifying all private utilities. We are not responsible for damage to unmarked lines.
- If permitting is required, customer is responsible for providing site survey. Equipment delivery and installation times will not begin until permitting is approved. Permitting fees and engineering drawings not included.
- Bliss will smooth jobsite but full site restoration (such as sod) is not included. Bliss will take every care with trees, curbs, sidewalks, fences and other site obstructions but will not be responsible for damage caused by normal installation processes.
- Removal of trash and spoils is not included. Customer responsible for providing dumpster for debris and/or an area within reasonable distance to spread spoils.
- Bliss will not be held responsible for delays due to weather.
- Customer accepts all responsibility for requests that are not in compliance with ASTM, CPSC or local building codes.

Complete Terms and Conditions can be found at <https://blissproducts.com/terms-conditions/>



**Bliss Products and Services, Inc.**  
**Terms and Conditions Applying to the Sale of Goods and Services**

<b>Customer:</b>	North Pike School District	<b>Address:</b>	1036 Jaguar Trail Summit, Mississippi 39666
<b>Date:</b>	26 September 2022		
<b>Quote Number:</b>	63706	<b>Amount:</b>	\$99,566.72

**These Terms and Conditions constitute a material part of the agreement between Bliss Products and Services, Inc. ("Bliss") and Customer. Bliss objects to, and does not agree to be bound by, any documentation Customer submits to Bliss. These Terms and Conditions supersede any inconsistent terms and conditions in any documentation Customer submits to Bliss.**

**A. Definitions**

1. "Customer" means the party identified above placing the order to which these Terms and Conditions are attached.
2. "Goods" or "Services" means the items or services for which Customer has placed order with Bliss Products and Services.
3. "Supplier" refers to the manufacturer or vendor that provides to Bliss Products and Services the Goods or Services required to fulfill Customer's purchase order and complete Customer's project.

**B. Payment Terms**

1. Customer shall pay all invoices in full within 30 days of the date of Bliss's invoice unless Bliss agrees otherwise in writing. Bliss reserves the right to charge Customer interest in the amount of 1 ½ % per month on the unpaid balance of any invoice.
2. Customer may dispute in good faith the amount of any invoice by providing Bliss with a written notice describing the basis of its objection and the amount Customer is disputing. Bliss must receive this notice no later than close of business (5 p.m. Eastern time) on the 7<sup>th</sup> calendar day after Bliss or its designee or Supplier delivers and/or, if applicable, installs the Goods or Services to the location Customer specified in its purchase order. In addition, Customer must pay to Bliss all undisputed invoiced amounts in accordance with these payment terms.
3. Customer shall reimburse Bliss for the reasonable costs of any successful action to collect past due invoices or other fees or charges.

**C. Quotes and Change Orders**

Bliss reserves the right to increase a previously quoted price when the Customer requests any change in the Goods or Services described on Customer's purchase order, including changes in the number or types of Goods and a change in delivery date.

**D. Delivery/ Loss or Damage to Goods**

1. **TITLE, DELIVERY, AND RISK OF LOSS OF GOODS.** Unless otherwise specified delivery points and charges shall be the F.O.B. point specified by Customer, but title to the Goods and risk of loss or damage in transit or thereafter shall pass to Customer when Bliss delivers the Goods to a common carrier for shipment. Customer must deal directly with the common carrier regarding shipping dates and late deliveries; Bliss does not guarantee shipping dates and is not liable for late deliveries.

2. **DAMAGE TO GOODS IN TRANSIT.** Customer shall note any damage to Goods that occurs in transit on the freight bill presented by the delivering common carrier. Customer must make any claims for damage to Goods in transit directly to the delivering common carrier according to the carrier's policies and procedures. Bliss is not responsible and disclaims any liability for damage to Goods in transit.

3. **PROCESS TO RETURN GOODS.** The only returns of Goods Bliss will accept are either stock items or non-stock items the Supplier will accept on return. Customer may not return any Goods without first obtaining a written authorization from Bliss. Customer must return all Goods in new and unused condition within 30 days of the date of the return authorization. Bliss will not accept the return, and will refuse delivery of any Goods without a written authorization by Bliss. Customer must pay a restocking charge as determined by Bliss, which will not exceed 10 % of the invoiced prices, and Customer shall prepay all freight charges in connection with returning Goods. Bliss will issue a credit for freight charges when it makes incorrect shipments. **CUSTOMER MAY NOT CANCEL OR RETURN SPECIAL ORDERS.**

**E. Cancellation**

Due to the nature of the Goods and Services Bliss sells, Customer may not cancel any order after it is confirmed by Bliss without first requesting a written authorization from Bliss. Bliss will authorize a cancellation only on the following conditions:

1. Customer must pay all costs, charges, and expenses incurred by Bliss in connection with fulfilling the order, including any charges and fees charged by the Supplier of the Goods listed on the Customer's purchase order ("Cancellation Costs")
2. Bliss will issue an invoice to Customer itemizing the Cancellation Costs, which will be due 5 business days after Bliss is required to pay the Supplier of the cancelled Goods.

**F. DISCLAIMER OF WARRANTY**

**BLISS OFFERS NO WARRANTIES, EXPRESS OR IMPLIED, OF THE GOODS IT SELLS. CUSTOMER MUST LOOK SOLELY TO THE SUPPLIER OF THE GOODS FOR WARRANTIES OF THE GOODS CUSTOMER PURCHASES.**

#### **G. LIMITATION OF LIABILITY**

In no event shall Bliss be liable for

1. lost profits or indirect, consequential, incidental, special or other similar damages arising out of or in connection with the supply, installation, functioning, or use of the Goods, including accidents, regardless of the theory on which the claim is based; or
2. any claim by Customer arising out of or based upon the performance, non-performance, or delay in delivery of or defect in the Goods or Services.

#### **H. Customer's Indemnification of Bliss**

Customer shall indemnify and defend Bliss from any claim or loss, including reasonable attorney's fees, arising from or relating to any allegation or claim by any third party based on or arising out of one or any combination of the following: (1) Customer's installation of the Goods and any materials Customer provides in connection with the installation; (2) the use of the Goods by Customer or its invitees or guests; or (3) Customer's maintenance of the Goods.

#### **I. Set-off**

Customer has no right of set-off or deduction.

1. Customer must pay all costs, charges, and expenses incurred by Bliss in connection with fulfilling the order, including any charges and fees charged by the Supplier of the Goods listed on the Customer's purchase order ("Cancellation Costs")

2. Bliss will issue an invoice to Customer itemizing the Cancellation Costs, which will be due 5 business days after Bliss is required to pay the Supplier of the cancelled Goods.

#### **J. Credit Approval and Accuracy of Information**

All orders are subject to current credit approval. From time to time, Bliss may review Customer's creditworthiness. Customer shall provide Bliss with all credit information Bliss reasonably requests. Customer covenants that all information it provides shall be true and correct, and that Customer shall not omit any information necessary to make such information not misleading. Bliss may refuse to accept an order or refuse shipment if at any time Customer does not meet Bliss's current credit requirements.

#### **K. Pricing, Payment, and Acceptance of Shipment**

Bliss may change the price of any order that Customer does not accept for delivery within 90 days of the quotation date. Bliss reserves the right to invoice Customer for and Customer shall pay an amount equal to 90% of the contract price for any Goods Customer does not accept for delivery in a reasonable amount of time after fabrication.

#### **L. Applicable Law**

This document and any subsequent contract referred to herein shall be governed by and construed in accordance with the laws of the State of Georgia, including the Georgia Uniform Commercial Code.

Customer has duly authorized the person signing below to enter into this agreement, making it a valid and binding commitment of Customer.

**Acknowledged and agreed:**

**Customer's Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Street name & number**

\_\_\_\_\_  
**City, State, Zip code**

**By:** \_\_\_\_\_

**Printed name:** \_\_\_\_\_

**Title:** \_\_\_\_\_





HARMONY

## NORTH PIKE UPPER ELEMENTARY SCHOOL SUMMIT, MS

645-154780

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



**play&park**  
**structures®**  
A PLAYCORE Company

544 CHESTNUT ST.  
CHATTANOOGA, TN 37402  
**800.727.1907**  
**PLAYANDPARK.COM**





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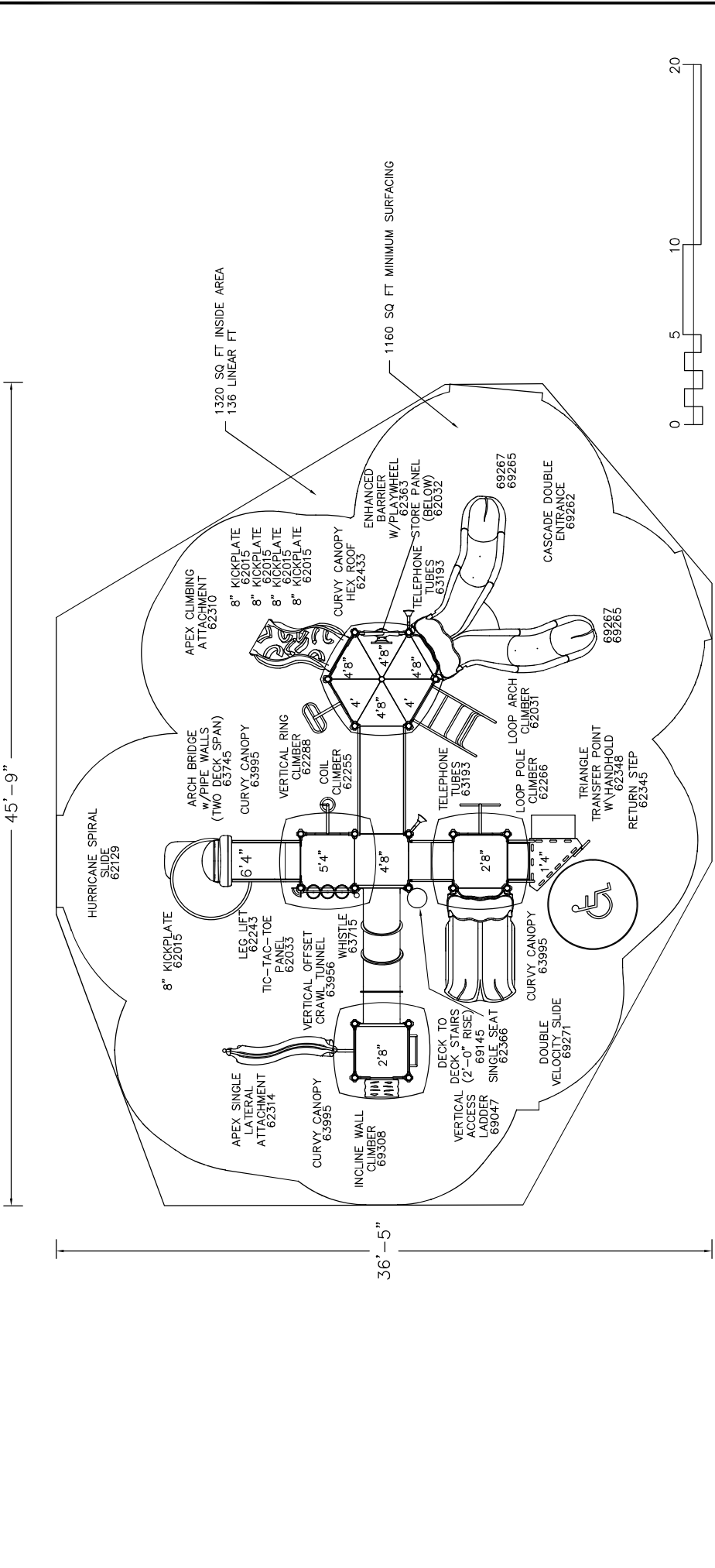


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**PLAYANDPARK.COM**



North Pike Upper Elementary School 1036 Jaguar Trl Summit, MS 39666	This play equipment is recommended for children ages: 2-5 or 5-12 Minimum Area Required: 45'-9" x 36'-5"	Scale: 3/16" = 1'-0" This drawing can be scaled only when in an 11" x 17" format	Drawn By: J. Swiedchowski Date: 9/15/2022 Quote Number: 645-154780	 544 Chestnut Street Chattanooga, TN 37402 800-727-1907 / www.playandpark.com		Total Play Components Elevated Play Components Elevated Play Components Accessible by Ramp Elevated Components Accessible by Transfer Accessible Ground Level Components Shown Different Types of Ground Level Components	User Capacity 55-65 Critical Fall Height 6'-4"
Bliss Products & Services						20 15 0 14 5 3	0 8 5 3



It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment. Top view drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction. **IMPORTANT:** Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.



## IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

**ISSUE DATE:** September 15, 2022

**Requested By:** Will McNeer

**Project:** 645-154780 North Pike Upper Elementary School

In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to the ASTM F1487-21 (excluding sections 7.1.1, 10, 11.2, 11.3, 13.1.1, 13.1.2, 13.2, and 13.3) Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.

The manufacturer listed below has received written validation from TÜV SÜD America that the product(s) listed conform with the requirements of ASTM F1487-21 (excluding sections 7.1.1, 10, 11.2, 11.3, 13.1.1, 13.1.2, 13.2, and 13.3).

This certificate is invalid if any component or part is replaced, unless purchased from the original manufacturer and assembled in accordance with the original equipment manufacturer's instructions. Check with the manufacturer to determine the validity of the certification of the product(s) listed prior to using this certificate for proof of certification.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
60919	Zig Zag Adapter	Supermax	Play & Park Structures
63715	Whistle	Duramax	Play & Park Structures
62288	Vertical Ring Climber – 4' Deck	Duramax	Play & Park Structures
63956	Vertical Offset Crawl Tunnel	Duramax	Play & Park Structures
62348	Triangle Transfer Point W/Handhold 2' 8"	Duramax	Play & Park Structures
69303	Triangle Deck	Duramax	Play & Park Structures
63193	Telephone Tube	Duramax	Play & Park Structures
69302	Square Deck	Duramax	Play & Park Structures
62366	Single Seat	Duramax	Play & Park Structures
62345	Return Step	Duramax	Play & Park Structures
62266	Loop Pole (2 8" deck)	Duramax	Play & Park Structures
62243	Leg Lift	Duramax	Play & Park Structures
69308	Inclined Wall Climber 32"	Duramax	Play & Park Structures
62129	Hurricane Spiral Slide, 64"	Duramax	Play & Park Structures
69267	Exit Section	Duramax	Play & Park Structures
62033	DURAMAX TIC-TAC-TOE FRAME	Duramax	Play & Park Structures
62032	DURAMAX STORE PANEL – HDPE	Duramax	Play & Park Structures
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
69262	Double Entrance Cascade	Duramax	Play & Park Structures
62031	DM LOP ARCH CLIMBER W/PANELS – 4'	Duramax	Play & Park Structures
69145	Deck to Deck Stairs 2' with Barrier	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
63995	Curvy Canopy	Duramax	Play & Park Structures
69265	Curve Left Section	Duramax	Play & Park Structures
62255	Coil Climber 5' 4"	Duramax	Play & Park Structures
62363	Barrier Panel With Steering Wheel	Duramax	Play & Park Structures
63745	Arch Bridge W/Pipe Wall – 72"	Duramax	Play & Park Structures
62314	Apex Single Lateral Attachment	Duramax	Play & Park Structures
62310	Apex Climbing Attachment	Duramax	Play & Park Structures
69047	2'8" & 3'4" Vertical Access Ladder	Duramax	Play & Park Structures
69271	2'8" Double Velocity Slide	Duramax	Play & Park Structures



## IPEMA CSA Z614:20 UPDATE NO. 1 CERTIFICATE OF COMPLIANCE

**ISSUE DATE:** September 15, 2022

**Requested By:** Will McNeer

**Project:** 645-154780 North Pike Upper Elementary School

In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to CSA Z614:20 Update No. 1 (excluding clauses 10 and 11) Children's Playspaces and Equipment.

The manufacturer listed below has received written validation from TÜV SÜD America that the product(s) listed conform with the requirements of CSA Z614:20 Update No. 1 (excluding clauses 10 and 11).

This certificate is invalid if any component or part is replaced, unless purchased from the original manufacturer and assembled in accordance with the original equipment manufacturer's instructions. Check with the manufacturer to determine the validity of the certification of the product(s) listed prior to using this certificate for proof of certification.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
60919	Zig Zag Adapter	Supermax	Play & Park Structures
63715	Whistle	Duramax	Play & Park Structures
62288	Vertical Ring Climber – 4' Deck	Duramax	Play & Park Structures
62348	Triangle Transfer Point W/Handhold 2' 8"	Duramax	Play & Park Structures
69303	Triangle Deck	Duramax	Play & Park Structures
63193	Telephone Tube	Duramax	Play & Park Structures
69302	Square Deck	Duramax	Play & Park Structures
62366	Single Seat	Duramax	Play & Park Structures
62243	Leg Lift	Duramax	Play & Park Structures
69308	Inclined Wall Climber 32"	Duramax	Play & Park Structures
62033	DURAMAX TIC-TAC-TOE FRAME	Duramax	Play & Park Structures
62032	DURAMAX STORE PANEL – HDPE	Duramax	Play & Park Structures
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
62031	DM LOP ARCH CLIMBER W/PANELS – 4'	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
63995	Curvy Canopy	Duramax	Play & Park Structures
62363	Barrier Panel With Steering Wheel	Duramax	Play & Park Structures
62310	Apex Climbing Attachment	Duramax	Play & Park Structures



## IPEMA CSA Z614:20 UPDATE NO. 1 CERTIFICAT DE CONFORMITÉ

**Date de Délivrance Initiale: septembre 15, 2022**

**Demandé par: Will McNeer**

**Nom du parc: 645-154780 North Pike Upper Elementary School**

Dans l'intérêt de la sécurité au terrain de jeu, IPEMA offre une certification par une tierce partie et TÜV SÜD America valide une certification par le fabricant de la conformité à la norme CSA Z614:20 Update No. 1 (excluant les articles 10, 11) les enfants les espaces de jeu et du matériel.

Le fabricant ci-dessous a reçu la validation de la part de TÜV SÜD America que les produits énumérés ci-dessous sont conformes aux exigences de la norme CSA Z614:20 Update No. 1 (excluant les articles 10, 11).

Ce certificat n'est pas valide si un composant ou une pièce est remplacé, à moins que le composant soit acheté du fabricant d'origine et assemblé conformément aux instructions du fabricant de l'équipement. Vérifiez auprès du fabricant pour déterminer la validité de la certification du (des) produit(s) indiqué(s) avant d'utiliser ce certificat pour la preuve de la certification.

MODÈLE n°	NOM COMMERCIAL DU PRODUIT	LIGNE DE PRODUIT	MANUFACTURIER
60919	Zig Zag Adapter	Supermax	Play & Park Structures
63715	Whistle	Duramax	Play & Park Structures
62288	Vertical Ring Climber – 4' Deck	Duramax	Play & Park Structures
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62031	DM LOP ARCH CLIMBER W/PANELS – 4'	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
63995	Curvy Canopy	Duramax	Play & Park Structures
62363	Barrier Panel With Steering Wheel	Duramax	Play & Park Structures
62310	Apex Climbing Attachment	Duramax	Play & Park Structures



9/15/2022

**North Pike Upper Elementary School  
Drawing 645-154780**

**DuraMax Specifications**

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**General System Specifications:**

DuraMax features 3 1/2" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat and utilizing stainless steel tabs on component connections. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

**Deck Components**

**Kickplates**

Kickplate measures 9-1/2" x 29", and is cut from galvanized sheet metal with (4) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Edges are ground smooth and Kick plate is powder-coated after fabrication with a baked on polyester finish.

**General Specifications of Materials**

**Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 -

87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## **HDPE Components**

### **HDPE Panels**

Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft<sup>3</sup> and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

## **Metal Components**

### **Loop Arch**

Loop Arch Climber Frame is fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing using steel welds with a baked on polyester powder-coat finish after fabrication. Panels are cut from a single sheet of high-density .850" thick extruded solid polyethylene with color molded in and UV-stabilized.

## **General Specifications of Materials**

### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## **HDPE Components**

### **HDPE Panels**

Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft<sup>3</sup> and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

## **General Specifications of Materials**

### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

#### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

#### Roto-Molded Components

##### Tic-Tac-Toe Frame

Tic-Tac-Toe Frame consist of 1" O.D. 11-gauge galvanize steel tubing and 1-5/16" O.D. 14-gauge galvanize steel tubing. Tic-Tac-Toe Frame receives a baked on polyester powder-coated finish after fabrication. Tic-Tac-Toe Plastic Blocks are rotationally molded from an extremely durable medium-density polyethylene with lettering molded in.

#### General Specifications of Materials

##### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

##### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

##### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains

ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

## **HDPE Components**

### **HDPE Panels**

Panels shall be precision cut from a single solid sheet of .750" thick UV-stabilized extruded high-density polyethylene with colors molded in. The material will have a density of 60 lbs/ft<sup>3</sup> and a tensile strength of 4400 PSI (30 Mpa) as determined per procedure C of ASTM D1928. All edges shall have radiuses and all corners rounded for safe play.

## **Roto-Molded Components**

### **Hurricane Slide**

The Extension Platform is fabricated from pre-punched steel sheet 11-gauge thickness with steel flat support bars welded underneath to increase strength. After welding, the entire platform is Plastisol-coated with a thickness of 80 mils min. on top wear surface. Exit Support Bracket is made from 1.315" O.D. 14-gauge galvanized steel tubing welded to 11-gauge steel plate and coated with a baked on polyester powder-coated finish. The one-piece Hurricane Spiral Slide shall be a double wall, one-piece construction of color impregnated rotationally molded linear low-density polyethylene with a 1/4" nominal wall thickness. The slide mast shall be aluminum and permanently molded into the slide during the molding process. The slide shall include a ground socket to receive the mast. Wall Panels are cut from a single sheet of high-density .850" thick extruded solid polyethylene with color molded in and UV-stabilized.

## **General Specifications of Materials**

### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## **Metal Components**

### **Leg Lift**

Leg Lift is formed from 4-1/2" x 2" x 3/16" steel welded to 1" O.D. 14-gauge galvanized tubing, polyester powder-coated after fabrication. Half Clamp is cast from a 356 high-strength aluminum alloy with a baked-on polyester powder-coated finish.

## General Specifications of Materials

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## Metal Components

### Coil Climber

Coil Climber consists of a 1-5/8" O.D. galvanized steel center tube with a 1-5/16" reduced end fitting for insertion into Vertical Pole Barrier. The coil is fabricated from a continuous 1-5/16" O.D. galvanized steel tube coiled to form a 10" diameter with maximum 11" clear spacing between each turn. Each open end of coiled tubing is welded shut, and the entire coiled tubing is welded to the 1-5/8" center pole at intervals using 1" O.D. galvanized tubing for connections. The entire Coil Climber is polyester powder-coated after fabrication.

## General Specifications of Materials

### Entry Archway

Entry Archway shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with vertical rungs fabricated from 1-1/16" O.D. x 15 gauge (.075" thick) galvanized steel tubing. L-Fitting is fabricated from 3/16" thick stainless steel for attachment to clamp. The Entry Archway shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## Metal Components

### Loop Pole

Vertical Pole Barrier is fabricated from 1-5/16" O.D. , 1-5/8" O.D. galvanized steel tubing, and galvanized tabs, and all welded. The entire barrier is coated after fabrication with a baked on polyester powder-coat finish. Loop Pole consists of a straight 1-5/8" O.D. galvanized steel tube with a 1-5/16" reduced end fitting for insertion into Vertical Pole Barrier overhead extension. Loops are fabricated from a 1-5/16" O.D. tube bent to form 12" loops and welded to the center pole.

## General Specifications of Materials

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## Metal Components

### Vertical Ring Climber

Vertical Pole Barrier is fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with interior vertical members fabricated of 1 1/16" O.D. x .075" (15 gauge) wall galvanized steel tubing. The Barrier is a welded assembly and receives a baked-on powder coat finish.

Vertical Ring Climber consists of a 1-5/8" O.D. galvanized steel tubing with reduced end fitting for insertion into Vertical Pole Barrier overhead extension. Rungs are fabricated from a 1-5/16" O.D. 14-gauge. The entire frame receives a baked-on polyester powder-coated finish after fabrication.

## General Specifications of Materials

### Clamps

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %

### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-



746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

#### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

#### **Roto-Molded Components**

##### **Apex Climber - Standard**

ENTRY ARCHWAY shall be fabricated of 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with vertical rungs fabricated from 1-1/16" O.D. x 15 gauge (.075" thick) galvanized steel tubing. L-Fitting is fabricated from 3/16" thick steel for attachment to clamp. The Entry Archway shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

MOUNTING BRACKET shall be formed from 1/4" x 2" hot-rolled steel plate. The Mounting Bracket shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

CLIMBER shall be rotationally molded from an extremely durable double-walled low-density polyethylene with (UV) light stabilizers and color molded in. This material complies with STM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade2, Category 3, and has a minimum 1/4" wall thickness.

FOOTBUCKS are fabricated from 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with smashed end for attachment to climber. Footbuck shall be coated after fabrication with a custom formula of TGIC polyester powder coating

#### **General Specifications of Materials**

##### **Clamps**

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %

#### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

#### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

### **Roto-Molded Components**

#### Apex Climber - Lateral

ENTRY ARCHWAY W/ SOCKET shall be fabricated of 1 5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with vertical rungs fabricated from 1-1/16" O.D. x 15 gauge (.075" thick) galvanized steel tubing. Socket is 1 5/8" O.D. x .083" (14 gauge) wall galvanized steel tubing. L-Fitting is fabricated from 3/16" thick stainless steel for attachment to clamp. The Entry Archway shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

ATTACHMENT POLE shall be fabricated from 1 5/8" O.D. x .083" (14 gauge) wall galvanized steel tubing with end swaged to fit Socket of Entry Archway. Tabs are 3/16" thick stainless steel. Attachment pole shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

ATTACHMENT POST shall be fabricated from 2" O.D. x .095" (13 gauge) wall galvanized steel tubing with 2" H.R. galvanized steel pipe cap. Tabs are 3/16" thick stainless steel. Attachment post shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

CLIMBER shall be rotationally molded from an extremely durable double-walled low-density polyethylene with (UV) light stabilizers and color molded in. This material complies with STM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade2, Category 3, and has a minimum 1/4" wall thickness.

## Deck Components

### Return Step

### Return Step

The Return Step shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Return Steps shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

## General Specifications of Materials

### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

## Deck Components

### Triangle Transfer Point with Handhold

### Triangle Transfer with Handhold

The Triangle Transfer shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Triangle Transfer shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Handhold shall be fabricated from 1 7/8" O.D. x .12" (11 gauge) wall and 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Handhold and Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

## General Specifications of Materials

### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

## Deck Components

### Kickplates

Kickplate measures 9-1/2" x 29", and is cut from galvanized sheet metal with (4) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Edges are ground smooth and Kick plate is powder-coated after fabrication with a baked on polyester finish.

## Roto-Molded Components

### Enhanced Barrier

Enhanced Barrier: Shall be 3-1/2" thick color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein, with double wall construction molded to a minimum 3/16" wall thickness. Smashed pipe is made from 1.029" (15 gauge) O.D. galvanized pipe. Barrier slides over smashed pipe that is attached to deck. Barrier attaches to uprights using panel clamps.

Panel Cap is made from Butyl / 90 Durometer Black Rubber and attaches to Barrier via molded in inserts. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

## General Specifications of Materials

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

### Clamps

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %

## Metal Components

### Single Seat

The Single Seat shall consist of a 13 ½" Dia. cast aluminum seat mounted to a 1.66" OD x .083" (14 gauge) pipe (seat arm) via ½" set screw. It shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein. The seat arm is connected to an upright with a welded mounting tab and upright clamp.

## General Specifications of Materials

### Clamps

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## Roto-Molded Components

### Curvy Hex Roof

Roof shall be a single piece rotationally molded from an extremely durable low-density polyethylene with ultraviolet (UV) light stabilizers and color molded in. This material complies with ASTM-D-1248, Type 2, Class A, and Federal Specification LP-390C, Type 1, Class M, Grade 2, Category 3, and has a minimum 3/16" wall thickness.

## Metal Components

### Telephone Tubes

Telephone Tube receiver assembly consists of a bent 1-5/8" O.D. galvanized steel tube welded to 3/16" thick half clamps. "Receiver" is spun from 16-gauge galvanized sheet metal, and steel welded to the end of the tube. All parts shall be coated with a custom formula TGIC polyester powder coating after fabrication. Flexible hose is heavy-duty underground utility polyethylene type.

### Whistle

The whistle housing shall be an all welded assembly fabricated from aluminum 3 1/2" O.D. x 1/8" thick wall tubing, 1.315 O.D. aluminum pipe, and two 3/16" x 2" x 3 1/8" formed aluminum tabs. The whistle handle shall be fabricated from 1 5/16" O.D. x 14 gauge (.083" thick) galvanized steel tubing with two crimped-in threaded inserts. The internal whistle components consist of four 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene and an injection molded purchased three tone whistle. An aluminum upright cap is permanently installed using aluminum self-sealing rivets. The whistle housing, handle, and upright cap shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

## Deck Components

### Arch Bridge w/ Pipe Wall

The Arch Bridge is fabricated from pre-punched steel sheet with steel flat support bars welded underneath to increase strength. After welding, the entire bridge is Plastisol coated with a minimum thickness 80 mils on top wear surface. Average perforation size is 0.35" diameter after coating. The Pipe Wall is fabricated from 1-5/16" O.D. galvanized steel tubing with 'L' fitting stainless steel welded for attachment. The entire Pipe Wall receives a baked on polyester powder-coated finish.

## General Specifications of Materials

### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.



### Clamps

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %

### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

### Roto-Molded Components

#### Crawl Tunnels

Mounting bracket is fabricated from 7/8" O.D. 16-gauge galvanized steel tubing and 1/8" formed steel sheet and receives a baked-on polyester powder-coat finish after fabrication. Tubes shall be rotationally molded from an extremely durable low density polyethylene with (UV) light stabilizers and color molded in. Panel shall be rotationally molded from an extremely durable double-walled low density polyethylene with (UV) light stabilizers and color molded in. Tube and Panel material complies with ASTM-D-1248, Type 2, Class A, and Federal specification LP-390C, Type 1, Class M, Grade 2, Category 3, and has a minimum 1/4" wall thickness.

## General Specifications of Materials

### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

## Roto-Molded Components

### Curvy Canopy

Roof shall be a single piece rotationally molded from an extremely durable low-density polyethylene with ultraviolet (UV) light stabilizers and color molded in. This material complies with ASTM-D-1248, Type 2, Class A, and Federal Specification LP-390C, Type 1, Class M, Grade 2, Category 3, and has a minimum 3/16" wall thickness.

## Metal Components

### Vertical Ladders

Vertical Ladder shall be manufactured from 1.315" o.d. Galvanized Siderails with 1.029" o.d. Galvanized Rungs in an all welded assembly. Assembly shall be powder coated following the powdercoating specifications outlined herein.

Entry Archway: Entry archway shall be manufactured from a 1.315" o.d. Galvanized formed Archway and 1.315" o.d. Galvanized top and bottom Rails with 1.029" o.d. Galvanized rungs. Entry archway shall attach by means of a 3/16" formed L-Bracket. Archway shall be an all welded assembly and shall be powder coated following the powder coating specifications outlined herein.

Hardware: See existing Specs

Polyester Powder Coating Process: See existing Specs

## General Specifications of Materials

### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

#### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

#### Clamps

All clamps are cast of high-strength 356 aluminum. All clamps are 1-3/4" wide with a minimum wall thickness of 3/8", and are powder-coated to match the post color. Each casting is precision-drilled to receive a 1/4" x 1-3/4" zinc-plated steel hinge pin. The hinging design facilitates installation and ensures a snug fit between clamp and post. Each clamp is secured in place using a 1/4" x 3/4" aluminum drive rivet to prevent slippage or rotation on the post. Fasteners for clamps are stainless steel 3/8" x 1-1/2" special tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

All clamps receiving rungs are drilled and tapped to receive a 3/8" x 3/8" stainless steel cone-point set screw with locking patch, which prevents the rungs from turning or being pulled out. The 1-5/16" O.D. rungs terminate inside the clamp, thereby eliminating the need for end caps. The aluminum alloy used in the casting of clamps shall meet the following mechanical properties:

Ultimate Tensile Strength - 45,000 psi  
Yield Strength - 26,000 psi  
Shear Strength - 40,000 psi  
Elongation - 8 %

#### Hardware

All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

### Roto-Molded Components

#### Cascade Slides

#### Footbuck:

Shall be 1 5/16" O.D. 14-gauge galvanized steel tubing and 12GA. (.109") Sheet metal P & O. All parts are all welded construction with a baked on polyester powder-coated finish after fabrication.

#### SLIDE SECTIONS:

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-



746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

#### Slide Support:

Support Plate shall be made of 12 GA. H.R. Steel, sheet sheared into 11 ¼" Wide strips. Footbuck pipe shall be made of 2" L.W. GALV. PIPE, 41 11/16" LG. All parts are all welded construction with a baked on polyester powder-coated finish after fabrication.

#### Hardware:

All nuts, bolts, screws, inserts, and lock washers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. Stainless steel fasteners shall be button pin-in head, hex socket cap screws with a two-part epoxy locking patch added to the threads. The two-part locking patch shall consist of one part resin and one part catalyst which are activated during installation. After curing, the material shall require a minimum of five times the installation torque to remove the fastener. Manufacturer shall provide special installation tools for pinned fasteners.

## General Specifications of Materials

#### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (¼"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

#### Polyester Powder-Coating Process

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tamper-resistant pinned bolt with locking patch, and a heavy hex nut, which fits in a recess, cast into the clamp. The pinned head requires a special tool for fastening (provided with each structure), thus ensuring vandal-resistance.

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Shear Strength - 40,000 psi  
Elongation - 8 %

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All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.



Bliss Products and Services, Inc  
6831 S. Sweetwater Rd.  
Lithia Springs, GA 30122  
(800) 248-2547  
(770) 920-1915 Fax

Quote # **63854**

Sales Rep: Will McNeer  
will@blissproducts.com  
C: (901) 515-8767

**North Pike School District**

**Date** 9/13/2022 **Project** North Pike Upper  
Elementary School  
Playground Option 2

**Bill To**

North Pike School District  
1036 Jaguar Trail  
Summit, Mississippi 39666

**Ship To**

North Pike School District  
North Pike School District

**Contact**

Jay Smith  
Phone: (601) 276-2216

**Approximate Ship Date**

**Ship Via**

**Terms**  
Net 30

Vendor	Part #	Description	Qty	Unit Price	Extended Price
APS	APS-Border12	12" Playground Border with Surfacing Guide and Spike	40	\$32.00	\$1,280.00
BPF		Permitting	1	\$1,750.00	\$1,750.00
BPS		Signed/Sealed Engineering Drawings	1	\$750.00	\$750.00
INS		Installation of Playground, Borders, and Mulch	1	\$29,826.00	\$29,826.00
PPS	645-154781	Mystic Maze Playground Structure MSRP \$100,216	1	\$55,118.80	\$55,118.80
PPS		Material Surcharge	1	\$13,904.97	\$13,904.97
ZEA	341036	90 Cubic Yards of Engineered Wood Fiber Mulch	1	\$1,719.00	\$1,719.00

**Sub Total** \$104,348.77  
**Freight** 8,382.06  
**Tax** 0.00

**Taxable Subtotal** \$112,730.83

Financing as low as **\$2,615.36** / month may be  
available pending credit approval.

**Grand Total** \$112,730.83

- Due to volatility in raw material pricing, this quote is only valid for 30 days unless otherwise noted.
- Due to instability in material procurement and manufacturing, verbal or written lead times are subject to change.

Sales tax exempt certificate will be required for exemption. All orders are subject to approval and acceptance by the manufacturer. Deposits may be required. Add 3% to total for charge card transactions. Manufacturing lead times will not begin without an actual shipping address, color and mount selection, approved purchase order or fully executed contract. Customer will need to coordinate with freight carrier if unloading or inside delivery is required. Damaged or missing parts must be noted on the bill of lading at the time of delivery. A finance charge of 1.5% per month will be added to all invoices past due. Return items are subject to manufacturer's policies and may result in freight and restocking fees.

Signed quote will not be accepted for orders over \$500.

**Install Conditions - Unless otherwise noted:**

- Site should be clear, level and allow continuous access for delivery, materials and equipment. A space must be provided for the staging and secure storage of equipment within a reasonable distance to the jobsite.
- Installation price based on a single mobilization and unrestricted work hours. We can accommodate special requests but they may result in additional labor costs.
- Installation requiring footers are based on normal soil conditions. Rock, coral, asphalt, foundations, pipes, underground utilities, poor soil conditions, and poor drainage may incur additional charges.



- Bliss will call for public locates but the customer is responsible for locating and identifying all private utilities. We are not responsible for damage to unmarked lines.
- If permitting is required, customer is responsible for providing site survey. Equipment delivery and installation times will not begin until permitting is approved. Permitting fees and engineering drawings not included.
- Bliss will smooth jobsite but full site restoration (such as sod) is not included. Bliss will take every care with trees, curbs, sidewalks, fences and other site obstructions but will not be responsible for damage caused by normal installation processes.
- Removal of trash and spoils is not included. Customer responsible for providing dumpster for debris and/or an area within reasonable distance to spread spoils.
- Bliss will not be held responsible for delays due to weather.
- Customer accepts all responsibility for requests that are not in compliance with ASTM, CPSC or local building codes.

Complete Terms and Conditions can be found at <https://blissproducts.com/terms-conditions/>

**Bliss Products and Services, Inc.**  
**Terms and Conditions Applying to the Sale of Goods and Services**

**Customer:** North Pike School District

**Address:** 1036 Jaguar Trail  
Summit, Mississippi 39666

**Date:** 26 September 2022

**Quote  
Number:** 63854

**Amount:** \$112,730.83

**These Terms and Conditions constitute a material part of the agreement between Bliss Products and Services, Inc. ("Bliss") and Customer. Bliss objects to, and does not agree to be bound by, any documentation Customer submits to Bliss. These Terms and Conditions supersede any inconsistent terms and conditions in any documentation Customer submits to Bliss.**

**A. Definitions**

1. "Customer" means the party identified above placing the order to which these Terms and Conditions are attached.
2. "Goods" or "Services" means the items or services for which Customer has placed order with Bliss Products and Services.
3. "Supplier" refers to the manufacturer or vendor that provides to Bliss Products and Services the Goods or Services required to fulfill Customer's purchase order and complete Customer's project.

**B. Payment Terms**

1. Customer shall pay all invoices in full within 30 days of the date of Bliss's invoice unless Bliss agrees otherwise in writing. Bliss reserves the right to charge Customer interest in the amount of 1 ½ % per month on the unpaid balance of any invoice.
2. Customer may dispute in good faith the amount of any invoice by providing Bliss with a written notice describing the basis of its objection and the amount Customer is disputing. Bliss must receive this notice no later than close of business (5 p.m. Eastern time) on the 7<sup>th</sup> calendar day after Bliss or its designee or Supplier delivers and/or, if applicable, installs the Goods or Services to the location Customer specified in its purchase order. In addition, Customer must pay to Bliss all undisputed invoiced amounts in accordance with these payment terms.
3. Customer shall reimburse Bliss for the reasonable costs of any successful action to collect past due invoices or other fees or charges.

**C. Quotes and Change Orders**

Bliss reserves the right to increase a previously quoted price when the Customer requests any change in the Goods or Services described on Customer's purchase order, including changes in the number or types of Goods and a change in delivery date.

**D. Delivery/ Loss or Damage to Goods**

1. **TITLE, DELIVERY, AND RISK OF LOSS OF GOODS.** Unless otherwise specified delivery points and charges shall be the F.O.B. point specified by Customer, but title to the Goods and risk of loss or damage in transit or thereafter shall pass to Customer when Bliss delivers the Goods to a common carrier for shipment. Customer must deal directly with the common carrier regarding shipping dates and late deliveries; Bliss does not guarantee shipping dates and is not liable for late deliveries.

2. **DAMAGE TO GOODS IN TRANSIT.** Customer shall note any damage to Goods that occurs in transit on the freight bill presented by the delivering common carrier. Customer must make any claims for damage to Goods in transit directly to the delivering common carrier according to the carrier's policies and procedures. Bliss is not responsible and disclaims any liability for damage to Goods in transit.

3. **PROCESS TO RETURN GOODS.** The only returns of Goods Bliss will accept are either stock items or non-stock items the Supplier will accept on return. Customer may not return any Goods without first obtaining a written authorization from Bliss. Customer must return all Goods in new and unused condition within 30 days of the date of the return authorization. Bliss will not accept the return, and will refuse delivery of any Goods without a written authorization by Bliss. Customer must pay a restocking charge as determined by Bliss, which will not exceed 10 % of the invoiced prices, and Customer shall prepay all freight charges in connection with returning Goods. Bliss will issue a credit for freight charges when it makes incorrect shipments. **CUSTOMER MAY NOT CANCEL OR RETURN SPECIAL ORDERS.**

**E. Cancellation**

Due to the nature of the Goods and Services Bliss sells, Customer may not cancel any order after it is confirmed by Bliss without first requesting a written authorization from Bliss. Bliss will authorize a cancellation only on the following conditions:

1. Customer must pay all costs, charges, and expenses incurred by Bliss in connection with fulfilling the order, including any charges and fees charged by the Supplier of the Goods listed on the Customer's purchase order ("Cancellation Costs")
2. Bliss will issue an invoice to Customer itemizing the Cancellation Costs, which will be due 5 business days after Bliss is required to pay the Supplier of the cancelled Goods.

**F. DISCLAIMER OF WARRANTY**

**BLISS OFFERS NO WARRANTIES, EXPRESS OR IMPLIED, OF THE GOODS IT SELLS. CUSTOMER MUST LOOK SOLELY TO THE SUPPLIER OF THE GOODS FOR WARRANTIES OF THE GOODS CUSTOMER PURCHASES.**

#### **G. LIMITATION OF LIABILITY**

In no event shall Bliss be liable for

1. lost profits or indirect, consequential, incidental, special or other similar damages arising out of or in connection with the supply, installation, functioning, or use of the Goods, including accidents, regardless of the theory on which the claim is based; or
2. any claim by Customer arising out of or based upon the performance, non-performance, or delay in delivery of or defect in the Goods or Services.

#### **H. Customer's Indemnification of Bliss**

Customer shall indemnify and defend Bliss from any claim or loss, including reasonable attorney's fees, arising from or relating to any allegation or claim by any third party based on or arising out of one or any combination of the following: (1) Customer's installation of the Goods and any materials Customer provides in connection with the installation; (2) the use of the Goods by Customer or its invitees or guests; or (3) Customer's maintenance of the Goods.

#### **I. Set-off**

Customer has no right of set-off or deduction.

1. Customer must pay all costs, charges, and expenses incurred by Bliss in connection with fulfilling the order, including any charges and fees charged by the Supplier of the Goods listed on the Customer's purchase order ("Cancellation Costs")

2. Bliss will issue an invoice to Customer itemizing the Cancellation Costs, which will be due 5 business days after Bliss is required to pay the Supplier of the cancelled Goods.

#### **J. Credit Approval and Accuracy of Information**

All orders are subject to current credit approval. From time to time, Bliss may review Customer's creditworthiness. Customer shall provide Bliss with all credit information Bliss reasonably requests. Customer covenants that all information it provides shall be true and correct, and that Customer shall not omit any information necessary to make such information not misleading. Bliss may refuse to accept an order or refuse shipment if at any time Customer does not meet Bliss's current credit requirements.

#### **K. Pricing, Payment, and Acceptance of Shipment**

Bliss may change the price of any order that Customer does not accept for delivery within 90 days of the quotation date. Bliss reserves the right to invoice Customer for and Customer shall pay an amount equal to 90% of the contract price for any Goods Customer does not accept for delivery in a reasonable amount of time after fabrication.

#### **L. Applicable Law**

This document and any subsequent contract referred to herein shall be governed by and construed in accordance with the laws of the State of Georgia, including the Georgia Uniform Commercial Code.

Customer has duly authorized the person signing below to enter into this agreement, making it a valid and binding commitment of Customer.

**Acknowledged and agreed:**

**Customer's Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Street name & number**

\_\_\_\_\_  
**City, State, Zip code**

**By:** \_\_\_\_\_

**Printed name:** \_\_\_\_\_

**Title:** \_\_\_\_\_





BUBBLEGUM

## NORTH PIKE UPPER ELEMENTARY SCHOOL SUMMIT, MS

645-154781

PLEASE NOTE: RENDERINGS ARE FOR VISUAL PURPOSES ONLY. ANY PRODUCTS AND/OR SITE DETAILS HEREIN MAY BE SUBJECT TO CHANGE WITHOUT NOTICE.



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CHATTANOOGA, TN 37402  
**800.727.1907**  
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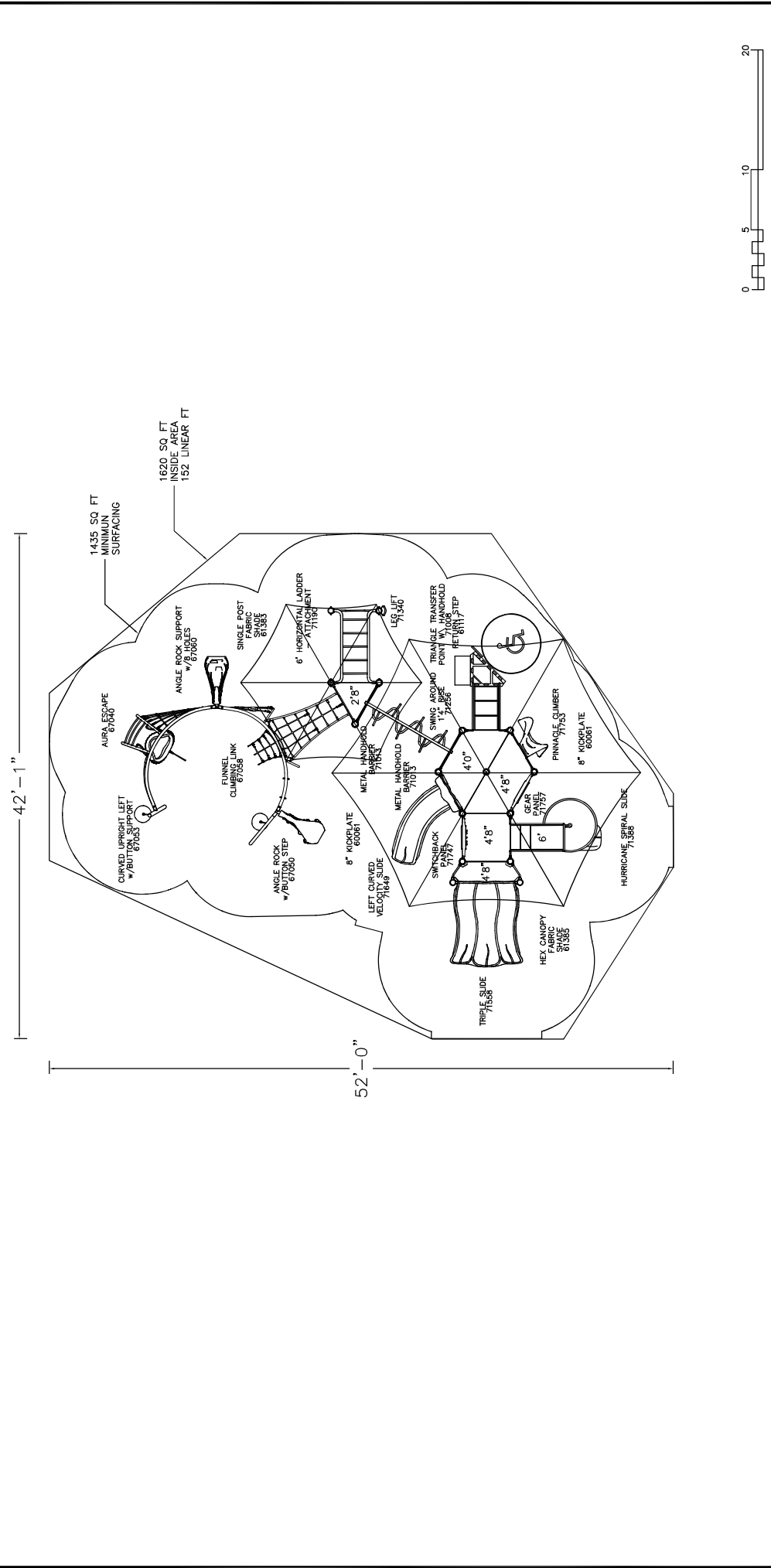


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<p>North Pike Upper Elementary 1036 Jacuar Trl Summitt, MS 39666</p>	<p>This play equipment is recommended for children ages: 5-12</p>	<p>Minimum Area Required: 42'-1" x 52'-0"</p>	<p>Scale: 1/8" = 1'-0" This drawing can be scaled only when in an 11" x 17" format</p>	<p>Drawn By: J. Swiedchowski Date: 9/15/2022 Quote Number: 645-154781</p>	 <p>544 Chestnut Street Chattanooga, TN 37402 800-727-1907 / www.playandpark.com</p>		<p>Total Play Components</p>	<p>Elevated Play Components</p>	<p>Elevated Play Components Accessible by Ramp</p>	<p>Elevated Components Accessible by Transfer</p>	<p>Accessible Ground Level Components Shown</p>	<p>Different Types of Ground Level Components</p>	<p>14</p>	<p>9</p>	<p>0</p>	<p>8</p>	<p>5</p>	<p>3</p>	<p>3</p>	<p>User Capacity 55-65</p>	<p>Critical Fall Height 8'-0"</p>
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It is the manufacturer's opinion that the structure shown herein complies with current ada standards concerning accessibility if used with proper accessible surfacing and together with other necessary ground level play equipment. Top view drawings and measurements are for overall site and structure appearance purposes. Top view should not be conceived as a construction detail; therefore, all measurements and slope requirements should be field verified prior to construction. **IMPORTANT:** Never install play equipment over hard, unresilient surfaces such as asphalt, concrete, or compacted earth. It is the owner's responsibility to ensure the "minimum area required" contains an appropriate amount of resilient material to cushion accidental falls.



## IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

**ISSUE DATE:** September 15, 2022

**Requested By:** Will McNeer

**Project:** 645-154781 North Pike Upper Elementary School

In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to the ASTM F1487-21 (excluding sections 7.1.1, 10, 11.2, 11.3, 13.1.1, 13.1.2, 13.2, and 13.3) Standard Consumer Safety Performance Specification for Playground Equipment for Public Use.

The manufacturer listed below has received written validation from TÜV SÜD America that the product(s) listed conform with the requirements of ASTM F1487-21 (excluding sections 7.1.1, 10, 11.2, 11.3, 13.1.1, 13.1.2, 13.2, and 13.3).

This certificate is invalid if any component or part is replaced, unless purchased from the original manufacturer and assembled in accordance with the original equipment manufacturer's instructions. Check with the manufacturer to determine the validity of the certification of the product(s) listed prior to using this certificate for proof of certification.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
71747	Twist Bearing Panel	Supermax	Play & Park Structures
71558	Triple Slide	Supermax	Play & Park Structures
71008	Triangle Transfer Point W/Handhold (4' Deck)	Supermax	Play & Park Structures
71256	Swing Around-1'-4" Rise	Supermax	Play & Park Structures
71000	Square Deck	Supermax	Play & Park Structures
60061	SMALL KICKPLATE (FOR DECKS SPACED 8" APART)	Supermax	Play & Park Structures
61383	Single Post Fabric Shade	Supermax	Play & Park Structures
71003	Semi-Hex Deck	Supermax	Play & Park Structures
61117	Return Step	Supermax	Play & Park Structures
71753	Pinnacle Climber	Supermax	Play & Park Structures
71013	Metal Barrier	Supermax	Play & Park Structures
71340	Leg Lift	Supermax	Play & Park Structures
71649	Left Curved Velocity Slide 4'	Supermax	Play & Park Structures
61385	Hex Canopy Fabric Shade	Supermax	Play & Park Structures
71757	Gear Panel	Supermax	Play & Park Structures
71001	Equilateral Triangle Deck	Supermax	Play & Park Structures
67053	Curved Upright Left W/Button Step	BoulderScape	Play & Park Structures
67040	Aura Escape	BoulderScape	Play & Park Structures
67050	Angle Rock W/Button Step	BoulderScape	Play & Park Structures
71190	6' Horizontal Ladder – attachment (2'-8")	Supermax	Play & Park Structures
71388	4'-8" Enclosure Hurricane Rotomolded	Supermax	Play & Park Structures





## IPEMA CSA Z614:20 UPDATE NO. 1 CERTIFICATE OF COMPLIANCE

**ISSUE DATE:** September 15, 2022

**Requested By:** Will McNeer

**Project:** 645-154781 North Pike Upper Elementary School

In the interest of public playground safety, IPEMA provides a third-party certification service whereby TÜV SÜD America validates a manufacturer's certification of conformance to CSA Z614:20 Update No. 1 (excluding clauses 10 and 11) Children's Playspaces and Equipment.

The manufacturer listed below has received written validation from TÜV SÜD America that the product(s) listed conform with the requirements of CSA Z614:20 Update No. 1 (excluding clauses 10 and 11).

This certificate is invalid if any component or part is replaced, unless purchased from the original manufacturer and assembled in accordance with the original equipment manufacturer's instructions. Check with the manufacturer to determine the validity of the certification of the product(s) listed prior to using this certificate for proof of certification.

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
71747	Twist Bearing Panel	Supermax	Play & Park Structures
71558	Triple Slide	Supermax	Play & Park Structures
71256	Swing Around-1'-4" Rise	Supermax	Play & Park Structures
71000	Square Deck	Supermax	Play & Park Structures
60061	SMALL KICKPLATE (FOR DECKS SPACED 8" APART)	Supermax	Play & Park Structures
61383	Single Post Fabric Shade	Supermax	Play & Park Structures
71003	Semi-Hex Deck	Supermax	Play & Park Structures
61117	Return Step	Supermax	Play & Park Structures
71753	Pinnacle Climber	Supermax	Play & Park Structures
71013	Metal Barrier	Supermax	Play & Park Structures
71340	Leg Lift	Supermax	Play & Park Structures
71649	Left Curved Velocity Slide 4'	Supermax	Play & Park Structures
61385	Hex Canopy Fabric Shade	Supermax	Play & Park Structures
71757	Gear Panel	Supermax	Play & Park Structures
71001	Equilateral Triangle Deck	Supermax	Play & Park Structures
67053	Curved Upright Left W/Button Step	BoulderScape	Play & Park Structures
67040	Aura Escape	BoulderScape	Play & Park Structures
67050	Angle Rock W/Button Step	BoulderScape	Play & Park Structures
71190	6' Horizontal Ladder – attachment (2'-8")	Supermax	Play & Park Structures



## IPEMA CSA Z614:20 UPDATE NO. 1 CERTIFICAT DE CONFORMITÉ

**Date de Délivrance Initiale: septembre 15, 2022**

**Demandé par: Will McNeer**

**Nom du parc: 645-154781 North Pike Upper Elementary School**

Dans l'intérêt de la sécurité au terrain de jeu, IPEMA offre une certification par une tierce partie et TÜV SÜD America valide une certification par le fabricant de la conformité à la norme CSA Z614:20 Update No. 1 (excluant les articles 10, 11) les enfants les espaces de jeu et du matériel.

Le fabricant ci-dessous a reçu la validation de la part de TÜV SÜD America que les produits énumérés ci-dessous sont conformes aux exigences de la norme CSA Z614:20 Update No. 1 (excluant les articles 10, 11).

Ce certificat n'est pas valide si un composant ou une pièce est remplacé, à moins que le composant soit acheté du fabricant d'origine et assemblé conformément aux instructions du fabricant de l'équipement. Vérifiez auprès du fabricant pour déterminer la validité de la certification du (des) produit(s) indiqué(s) avant d'utiliser ce certificat pour la preuve de la certification.

### MODÈLE n° NOM COMMERCIAL DU PRODUIT

### LIGNE DE PRODUIT MANUFACTURIER

71747	Twist Bearing Panel	Supermax	Play & Park Structures
71558	Triple Slide	Supermax	Play & Park Structures
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71190	6' Horizontal Ladder – attachment (2'-8")	Supermax	Play & Park Structures

9/15/2022

**North Pike Upper Elementary School  
Drawing 645-154781**

**SuperMax Specifications**

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**General System Specifications:**

SuperMax features 5" O.D. uprights with a high-strength aluminum alloy clamp fastening system finished with a polyester powder-coat. All uprights shall receive factory installed aluminum post caps and will ship with labels for manufacturer identification.

All decks and components shall connect using the aluminum alloy clamping system. All climbing attachments shall include a 15" wide deck entry archway to control deck access to one child at a time and help prevent inadvertent falls.

Manufacturer shall offer the following warranties on the materials and components of its system:

- Lifetime limited warranty on support posts (uprights)
- 15-Year limited warranty on punched steel decks, pipes, rails, loops and rungs
- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

Manufacturer shall show IPEMA certification of compliance for each component that the product conforms with the requirements of ASTM F1487-01.

**General Specifications of Materials**

**Uprights, Aluminum**

The posts shall be 5" outside diameter tubing with an 1/8" minimum wall thickness. The material shall be extruded from 6005-T5 seamless aluminum alloy conforming to ASTM-B-221. Minimum yield strength shall be 35,000 psi and minimum tensile strength shall be 38,000 psi. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

**Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.



#### Hardware

All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.

### Deck Components

#### Kickplates

Kickplate is cut from galvalume sheet metal with (8) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Corners are rounded, edges are ground smooth, and receives a baked-on polyester powder-coated finish after fabrication.

#### Return Step

#### Return Step

The Return Step shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Return Steps shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

### General Specifications of Materials

#### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

### Shade

#### Single Post Shade

#### SINGLE POST FABRIC SHADE

Umbrella Arm: The Umbrella Arm shall be an all welded assembly fabricated with 2 7/8" O.D. x .134" (SCH 40) wall galvanized steel tubing, 2 1/16" x 1/4" x 2 1/2" H.R. steel plate, and 3 1/8" dia x 1/4" H.R. steel plate. The Umbrella Arm shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Umbrella Brace Weld Assembly:** The Umbrella Brace shall be an all welded assembly fabricated with 2 7/8" O.D. x .134" (SCH 40) wall galvanized steel tubing, 3 1/8" dia x 1/4" H.R. steel plate, and 2 1/2" x 1/4" x 2 3/4" H.R. steel plate. The Umbrella Brace shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Umbrella Upright Extension:** The Umbrella Upright Extension shall be fabricated with 5" O.D. x .12" (11 gauge) galvanized steel tubing, formed 7 11/16" dia x .109 (12 gauge) H.R. steel plate, 2 15/16" x 3/8" x 5 7/8" H.R. steel plate, and 2 1/16" x 1/4" x 3 1/8" H.R. steel plate. The Umbrella Upright Extension shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Inground Extension:** The Inground Extension shall be fabricated with 5" O.D. x .12" (11 gauge) galvanized steel tubing.

**Cable:** The Cables shall be fabricated from 1/4" nominal diameter, 7 strand, 19 wires per strand (minimum), with nominal tensile strength of 9,000 lbs wire rope

**Fabric Shade:** The Fabric Shade shall be fabricated from high density polyethylene with ultra violet additives with a monofilament and tape construction.

**Shade End Casting:** The Shade End Casting shall be fabricated from 383 die cast aluminum alloy. The Shade End Casting shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

## **General Specifications of Materials**

### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## **Shade**

### **Hex Roof Shade**

#### **HEX ROOF FABRIC SHADE**

**Top Plate:** The Top Plate shall be fabricated from a formed 19 1/4" dia x 1/4" H.R. steel plate. The Top Plate shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Bottom Plate:** The Bottom Plate shall be fabricated from a formed 16 1/8" dia x 1/4" H.R. steel plate. The Bottom Plate shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Cantilevered ARM:** The Cantilevered Arm Weld Assembly shall be an all welded assembly fabricated with 6" dia x 3/16" H.R. steel plate, 5" x 3/8" x 2 3/4" H.R. steel plate, 5" O.D. x .12" (11 gauge) galvanized steel tubing, and 6 15/16" x 3/8" x 7 5/16" H.R. steel plate. The Cantilevered Arm Weld Assembly shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Long Canopy Brace:** The Long Canopy Brace Weld Assembly shall be an all welded assembly fabricated with 3 1/8" dia x 1/4" H.R. steel plate, 2 7/8" O.D. x .134" (SCH 40) wall galvanized steel tubing, and 2 1/2" x 1/4" x 2 3/4" H.R. steel plate. The Long Canopy Brace Weld Assembly shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Upright Extension:** The Upright Extension Weld Assembly shall be an all welded assembly fabricated with 5" dia x 3/16" H.R. Steel, 4 11/16" x 3/8" x 3 1/6" H.R. Steel plate, 5" O.D. x .12" (11 gauge) galvanized steel tubing, and 2 15/16" x 3/8" x 5 7/8" H.R. steel plate. The Upright Extension Weld Assembly shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

**Inground Extension:** The Inground Extension shall be fabricated with 5" O.D. x .12" (11 gauge) galvanized steel tubing.

**Cable:** The Cables shall be fabricated from 1/4" nominal diameter, 7 strand, 19 wires per strand (minimum), with nominal tensile strength of 9,000 lbs wire rope

**Fabric Shade:** The Fabric Shade shall be fabricated from high density polyethylene with ultra violet additives with a monofilament and tape construction.

**Shade End Casting:** The Shade End Casting shall be fabricated from 383 die cast aluminum alloy. The Shade End Casting shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

## **General Specifications of Materials**

### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## **Roto Components**

### **Angle Rock w/Column Support**

**Angle Rock:** Shall be 3/8" wall thickness double wall construction, color impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein. All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

**Rock Column Support Assembly:** Shall be an all welded construction fabricated from 2.875" O.D. (10ga.) and 1.315 O.D. (14ga.) galvanized steel tubing and Formed Plate shall be 1/4" hot rolled steel. The Rock Column Support Assembly shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.



## Deck Components

### Deck Platforms

Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

## General Specifications of Materials

### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

## Deck Components

### Deck Platforms

Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

## General Specifications of Materials

### SuperMax Clamp

Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal

durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

## Deck Components

### Deck Platforms

Metal decks shall be a one-piece construction and shall be designed to maintain a full 48" on center post spacing. Metal decks shall be fabricated from 11 gauge hot rolled steel which shall be punched, formed, and reinforced with welded in place 2-1/2" x 11 ga. steel strips. Decks shall include a pattern of equally spaced slots on each side to provide a flush mounting of play events that attach to the deck, as well as the design of more than one adjacent deck at the same height. Each deck shall have welded at the corner underside a threaded 3/8" stud for attachment to the post's Deck Clamps. This fastening technique eliminates the need for hardware protruding through the deck surface, thereby eliminating the possibility of an entanglement hazard and presenting a clean and smooth deck surface. Entire deck assembly, after fabrication, shall be dipped in a textured skid-resistant poly-vinyl-chloride (plastisol) coating to a minimum thickness of .080".

## General Specifications of Materials

### SuperMax Clamp

Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

### Plastisol Coating

All metal deck platforms, steps, bridge planks, ramps, kickplates, and chains are plastisol-coated. Each part is chemically washed and completely submerged in a special heat-activated primer and allowed to dry. Parts are then pre-heated and immersed in liquid poly-vinyl-chloride (plastisol). The PVC coating shall have a typical thickness of .080" to .120", and a hardness of Shore A 83 +/-5 normal durometer range. This material is classed as "Self Extinguishing", meets or exceeds automotive specifications NVSS302, and contains ultraviolet inhibitors to help prolong the life of the coating. Standard color is brown, with optional colors available. The following characteristics apply:

Tensile Strength - 2,800 psi

Elongation - 290 %

Tear Strength - 420 lbs/in

## Deck Components

### Kickplates

Kickplate is cut from galvaneal sheet metal with (8) 7/16" x 1" slotted holes punched to coincide with deck flange holes. Corners are rounded, edges are ground smooth, and receives a baked-on polyester powder-coated finish after fabrication.

### Triangle Transfer with Handhold

### Triangle Transfer with Handhold

The Triangle Transfer shall be made from 12 gauge punched steel with a protective p&o finish in conformance with the specifications outlined herein. The Triangle Transfer shall be a one-piece welded assembly finished with the matte PVC coating per the specifications herein. Handhold shall be fabricated from 1 7/8" O.D. x .12" (11gauge) wall and 1-5/16" O.D. x .083" (14 gauge) wall

galvanized steel tubing. Support legs shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing. Handhold and Support Legs shall be all-welded assemblies and shall be coated after fabrication with a custom formula of TGIC polyester powder in conformance with the specifications outlined herein.

## **General Specifications of Materials**

### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## **Metal Components**

### **Straight Horizontal Ladders**

Horizontal Ladders are fabricated from 2-3/8" O.D. 11-gauge galvanized tubing for the side rails welded to 1 5/16" O.D. 14-gauge galvanized rungs. Vertical Ladder is made of 1 5/16" O.D. galvanized tube with 1" O.D. galvanized tube rungs, and 3/16" thick steel tabs. All metal parts shall be coated with a custom formula TGIC polyester powder.

## **General Specifications of Materials**

### **SuperMax Clamp**

Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

### **Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

### **Hardware**

All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.



## Metal Components

### Swing Around

Swing Around: The Bottom Rail shall be fabricated from 1 ½" x .095 (13GA) L.W. galv. pipe, with sockets fabricated from 1.029" x .072 (15 GA) O.D. galv. pipe, Bottom Foot Step Plate fabricated from 14 Ga. sht., 4' x 10'-6" galvaneal, bottom foot step will be fabricated from 1 ¼" x .083 (14 GA) LW galv pipe and the connection plate will be fabricated from ¼" x 2" P&O Flat Steel for attachment to deck. The Top Rail shall be fabricated from 2" x .095 (13 GA) LW galv pipe, with sockets fabricated from 1.029" x .072 (15 GA) O.D. galv. pipe, the swaged pipe fabricated from 1" x .083" (14 GA) LW galv pipe and the pipe cap will be fabricated 14 GA. x 2 7/8" HR galv steel. The Side Hand Rail will be fabricated from 1" x .083 (14GA) LW galv pipe.

## General Specifications of Materials

### SuperMax Clamp

Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

## Metal Components

### Leg Lift

Leg Lift is formed from 4-1/2" x 2" x 3/16" steel welded to 1" O.D. 14-gauge galvanized tubing, polyester powder-coated after fabrication. Half Clamp is cast from a 356 high-strength aluminum alloy with a baked-on polyester powder-coated finish.

## General Specifications of Materials

### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (¼"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

## **Rotomolded Components**

Hurricane Slide with Rung Entrance  
SPECIFICATIONS:

**EXTENSION PLATFORM:** All welded assembly made from 11 GA. H.R. steel sheet, with a plastisol coating. (see general specs for plastisol coating information)

**METAL SLIDE ENCLOSURE:** 1.315" O.D. galvanized pipe formed rails with 1.029" O.D. rungs and 11 Ga. H.R. flat steel mounting plates, all in a welded, powder coated assembly.

**PIPE ENCLOSURE:** 1.315" O.D. galvanized pipe top rails with 1.029" O.D. rungs and 1/8" thick stainless steel mounting plates, in an all welded powder coated assembly.

**PIPE ENCLOSURE SUPPORT ASS'Y:** 1.315" O.D. pipe, with a 3/16" stainless steel tab, in an all welded powder coated assembly.

**HANDHOLD ASS'Y:** 1.029" O.D. Ga. Formed Handhold, with a 1/8" thk. stainless steel mounting tab, and a 3/16" stainless steel "L" fitting in an all welded powder coated assembly.

**FILLER PLATE:** 11 Ga. H.R. steel, with a powder coat finish.

**FOOTBUCK ASS'Y:** 1.315" O.D. pipe, with a 12 Ga. Plate in an all welded Powder coated assembly.

**GROUND SOCKET:** 3" Sch. 40 Galv. Pipe, with a powdercoat finish.

**FINISH:** Galvanized or powder coat over galvanized pipes.

**HARDWARE:** All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

## **General Specifications of Materials**

**SuperMax Clamp**

Clamp Ring and Adapters are die cast from an A380 high-strength aluminum alloy with a baked-on polyester powder-coat finish.

**Polyester Powder-Coating Process**

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross

Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

#### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).

### HDPE Components

#### Pinnacle Climber

The Pinnacle Climber Pieces shall be one piece construction manufactured from linear low-density polyethylene material and shall conform to the rotationally molded specifications outlined herein. Polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. Rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). The Entrance Barrier shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing with interior vertical members fabricated of 1 1/16" O.D. x .075" (15 gauge) wall galvanized steel tubing. The Barrier is a welded assembly and receives a baked-on powder coat finish.

#### Gear Panel

Gear Panel shall be color-impregnated linear low density polyethylene and shall conform to the rotationally molded specifications outlined herein. Gears shall be made from 3/4" thick (solid) high density, UV-stabilized and color impregnated polyethylene, with Polycarbonate windows.

### General Specifications of Materials

#### Rotationally Molded Plastics

All Rotationally Molded Products are manufactured from linear low-density polyethylene UV-stabilized color and an anti-static compound additive. The tensile strength of this material is to be 2500 PSI as defined by ASTM D638. The typical wall thickness will be .250" (1/4"). All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD). All solid plastic panels are manufactured from high-density polyethylene. All solid plastic panels shall meet or exceed the following specifications: Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790).



#### Uprights, Steel

The posts shall be 5" outside diameter, 11 gauge (.120") galvanized round tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

#### Polyester Powder-Coating Process

Powder-coat shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath, as a rust inhibitor, and a sealer to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D 2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Oven-bake Stability 200% at 350 degrees Fahrenheit for 10 minutes.

#### Hardware

All nuts, bolts, and washers, with exceptions noted, shall be 3/8" diameter 18-8 stainless steel in varying lengths, with a vandal-resistant hex-pinned head configuration and factory-applied locking patch. When allowed a 72-hour cure time, the locking patch will prevent the bolt from loosening without at least 4 times the installation torque. Play & Park Structures will supply the special tool required to turn vandal-resistant hardware with each shipment. 1/2" diameter Ramp and Arch Bridge connecting hardware shall be Grade 5 zinc-plated, and 3/8" Clatter Bridge security bolts shall be Grade 8 hardened and zinc-plated.



## About Bliss Products and Services, Inc.

Bliss Products and Services, Inc. has been in the recreation business since 1984. Not only have we survived over thirty years in an ever changing market, but we've undergone tremendous growth that has enabled our organization to expand from servicing a few states to being a formidable presence in the Southeast.

We take pride in this growth, which can be directly attributed to our "low key" and customer focused sales solutions. BPS provides exceptional customer service and quality recreational equipment. Thirty years in the industry has enabled us to develop long term relationships with vendors, clients and our sales force.



Our team has experience in design and development of all types of play environments. Our services include custom design consultations, site evaluations, budgeting, and installation. We are CPSI certified, industry trained, customer oriented, and committed to ensuring that our customers are treated as a part of our team.

You'll find our sales representatives, inside sales support, and install team are enthusiastic, responsive, and ready to work with you at your convenience.





## BPS Product Offerings

With the wide variety of products offered at Bliss Products and Services, Inc., (BPS) we are able to propose a solution for all of your recreation equipment needs: playground equipment, playground surfacing, shades, shelters, bleachers, dog parks, outdoor fitness, site amenities and athletic equipment.



### PLAYGROUND EQUIPMENT

BPS is the exclusive distributor for Play & Park Structures in the Southeast. Play & Park Structures is owned by Playcore, Inc. By joining the Playcore family of companies, BPS is able to ensure our customers always receive an outstanding product, a competitive price and excellent customer service.

We also represent : BigToys, UltraPlay, Sportsplay, and Elephant Play



### DOG PARKS, SITE AMENITIES, ETC.

By incorporating a dog park within your recreational area, you can create an environment that allows all family members to play, socialize, and get the physical activity so critical to health and well being.

Adding other site amenities, such as trash receptacles and benches, to your site, you can provide comfortability and cleanliness.



### SHADES, SHELTERS & MORE

Shade is becoming more and more of an important part of any recreation environment. Fabric shades over a playground, dog park, or over a pool can provide relief from the sun while being active. Metal or wood picnic shelters, paired with picnic tables and grills, are a great addition to serve as a gathering space for the community.





# BPS Installation Warranty

Bliss Products and Services, Inc. (BPS) hereby warrants and guarantees the installation work for a period of one year from the date of substantial completion.

BPS will repair or replace to the satisfaction of the Owner any or all work that may prove defective in workmanship or materials within the guarantee period together with any other work which may be damaged or displaced in so doing. This guarantee does not cover equipment that is not maintained properly. It also does not cover ordinary wear and tear, vandalism, or an other unusual abuse or neglect of the property.





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/20/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> HDINS, Inc dba Harry Daniel Insurance P.O. 2077 Cartersville, GA 30120  www.hdins.com AYP070759	<b>CONTACT</b> NAME: Meg Stover PHONE (A/C, No, Ext): 770-382-8954 FAX (A/C, No): 770-386-4081 E-MAIL ADDRESS: MStover@hdins.com														
<b>INSURED</b> Bliss Products and Services, Inc. 6831 S. Sweetwater Rd. Lithia Springs GA 30122	<table><tr><th>INSURER(S) AFFORDING COVERAGE</th><th>NAIC #</th></tr><tr><td>INSURER A: Cincinnati Specialty Underwriters</td><td>13037</td></tr><tr><td>INSURER B: Twin City Fire Insurance Co.</td><td>29459</td></tr><tr><td>INSURER C: Sentinel Insurance Co, Ltd</td><td>11000</td></tr><tr><td>INSURER D: Certain Underwriters at Lloyd's, London</td><td></td></tr><tr><td>INSURER E:</td><td></td></tr><tr><td>INSURER F:</td><td></td></tr></table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Cincinnati Specialty Underwriters	13037	INSURER B: Twin City Fire Insurance Co.	29459	INSURER C: Sentinel Insurance Co, Ltd	11000	INSURER D: Certain Underwriters at Lloyd's, London		INSURER E:		INSURER F:	
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INSURER E:															
INSURER F:															

**COVERAGES**

CERTIFICATE NUMBER: 69371059

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contract & XCU <input checked="" type="checkbox"/> \$5000 Deductible per claim GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			CSU0024940	1/17/2022	1/17/2023	EACH OCCURRENCE \$1000000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$100000 MED EXP (Any one person) \$5000 PERSONAL & ADV INJURY \$1000000 GENERAL AGGREGATE \$3000000 PRODUCTS - COMP/OP AGG \$3000000 \$
C	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			20UECKN3349	7/29/2022	7/29/2023	COMBINED SINGLE LIMIT (Ea accident) \$1000000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	<b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$0			CSU0024939	1/17/2022	1/17/2023	EACH OCCURRENCE \$5000000 AGGREGATE \$5000000 Occur/Aggregate \$
B	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input type="checkbox"/>	N/A	20WECAT3242	7/29/2022	7/29/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1000000 E.L. DISEASE - EA EMPLOYEE \$1000000 E.L. DISEASE - POLICY LIMIT \$1000000
C	IM-Installation			20SBAZT2793	4/19/2022	4/19/2023	\$100000
D	Professional Liability			HPL22-0066	4/28/2022	4/28/2023	\$1000000 per claim/aggregate

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

--See Attached Remarks Schedule--

Information provided by this certificate (including any addendum/attachment) is strictly limited per State of Georgia statute OCGA 33-24-19.1

**CERTIFICATE HOLDER****CANCELLATION**Bliss Products & Services, Inc.  
6831 S. Sweetwater Rd.  
Lithia Springs GA 30122

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

H. L. Daniel

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ACORD 25 (2016/03)

The ACORD name and logo are registered marks of ACORD



## ADDITIONAL REMARKS SCHEDULE

AGENCY HDINS, Inc dba Harry Daniel Insurance		NAMED INSURED Bliss Products and Services, Inc. 6831 S. Sweetwater Rd. Lithia Springs GA 30122	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

### ADDITIONAL REMARKS

**THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,**

**FORM NUMBER:** 25 **FORM TITLE:** ACORD 25 (03/16)

**HOLDER:** Bliss Products & Services, Inc.

**ADDRESS:** 6831 S. Sweetwater Rd. Lithia Springs GA 30122

GENERAL LIABILITY: Additional insured for ongoing and completed operations, on a primary and non-contributory basis, when required by executed written contract per form, CSGA437 12/13.

GENERAL LIABILITY: Waiver of subrogation when required by executed written contract per form, CSGA4087 12/12.

AUTO LIABILITY: Additional insured, on a primary and non-contributory basis, and waiver of subrogation when required by executed written contract per form, HA9916 12/21.

EXCESS LIABILITY: General Liability, Auto Liability and Workers' Compensation policies are all listed on the Schedule of Underlying Insurance. Additional insured and waiver of subrogation per forms, CSCX100 02/13 and CSCX 207 10/20.

WORKERS' COMP: Waiver of subrogation when required by executed written contract per form, WC000313.



# State of Mississippi

## BOARD OF CONTRACTORS

ACTIVE

BLISS PRODUCTS AND SERVICES, INC.  
6831 S. SWEETWATER RD  
LITHONIA SPRINGS, GA 30122

is duly registered and entitled to perform

PLAYGROUND & RECREATION EQUIPMENT



*We have herewith set our hand and caused the Seal of the Mississippi Board of Contractors to be affixed this 10 day of Oct., 2021*

CERTIFICATE OF RESPONSIBILITY

No. 22932-SC

Expires Oct. 10, 2022

*Joel A. Canall*

CHAIRMAN OF THE BOARD





A PLAYCORE Company

# BLISS PRODUCTS AND SERVICES, INC.

**Has successfully completed a course in techniques and procedures required for proper installation of Play & Park Structures playground equipment.**

In recognition of the successful completion of this training and in acknowledgement of the satisfaction of  
**Play & Park Structures** requirements for a certified installer,  
**Bliss Products and Services, Inc.** is hereby designated an

## OFFICIAL CERTIFIED INSTALLER

By receipt of this designation, **Bliss Products and Services, Inc.** agrees to install  
**Play & Park Structures** Playground Equipment in accordance with **Play & Park Structures**  
specifications and installation instructions.

*This Designation is effective from February 8, 2021 to February 7, 2023*  
**IN WITNESS WHEREOF, WE HAVE AFFIXED OUR SIGNATURE**  
*This 8<sup>th</sup> day of February 2021.*

  
Group President  
Spencer Cheak

  
Vice President of Customer Service  
Mike McWilliams





# Marion School District

Bliss Products and Services worked with Play & Park Structures to come up with education related themes for three schools in the Marion School District in Arkansas: Math, Science & Technology, Herbert Carter Global Magnet, and Visual and Performing Arts. Each school received a custom playground layout with equipment that spoke to their school's specific area of concentration. Along with the new playground equipment, each school received new poured in place surfacing with custom graphic designs. This project was completed on time and on budget, allowing children to begin using the new equipment right away when schools opened.



## Marion School District

200 Manor Street

Marion, AR 72364

### Contact Information

Dusty Duncan

870-739-5100

[dduncan@msd3.org](mailto:dduncan@msd3.org)

**Project Completion:** Nov. 2020

**Total Cost:** \$1,131,537.00





"It's time to update the old Kids Town playground due to an aging structure and poor visibility," said Chris Lindley, Mayor of Booneville, MS. "Although there were many cherished memories made on the previous playground, this new Kids Town installation will inspire new memories, with many accessible play areas, improved supervision qualities, and a face-to-face swing that allows parents to capture live video of their child swinging to share with family and friends."



## Kids Town Park Playground

100 Dalison Drive  
Booneville, MS 38829

### Contact Information

Jon Hill  
662-728-4132

[jhill@booneville-ms.gov](mailto:jhill@booneville-ms.gov)

**Project Completion:** May 2021





The City of Conway requested a themed steamship design celebrating the city's heritage. This was done through a bid process. Bliss Products submitted a bid proposal utilizing the structure shown below and it was a hit! Using a historic mural at City Hall as a guide, our CAD designers collaborated with city staff and our bid team to deliver exactly what the city envisioned. Complete with steam stacks, a pilot house, and interactive panels that announce, "Ticket Please!", this double decker steamer lets kids' imaginations soar while acting as a proud centerpiece for the city.



### City of Conway

Riverfront Park is located at

6 Elm Street

Conway, SC 29526

### Contact Information

Ken Seen

843-248-1760

kseen@cityofconway.com

**Project Completion:** Jan 2020





The City of Conway requested that we provide them with a train themed playground. Our train playground, complete with custom wheel panels and arched roofs, was perfect for their space. We also provided them with multiple panels to act as train “stations”. By considering the existing topography and incorporating the existing trees into the design, we created a natural play space that complemented the park. This park has been designated as a Playcore NatureGrounds design National Demonstration Site. This was done in partnership with the Natural Learning Initiative and Play & Park’s parent company, PlayCore, providing best practice guidelines for creating and retrofitting natural playgrounds that integrate manufactured play equipment and the living landscape to provide richer play experiences.



## City of Conway

Sherwood Forest Park is located at  
502 16th Avenue  
Conway, SC 29526

## Contact Information

Ken Seen  
843-248-1740  
kseen@cityofconway.com

**Project Completion:** Oct 2019







# Hampton Street Playground

The Hampton Street Playground provides a natural setting that supports the themed elements of the Origami Tower from Play & Park Structures. This multi-deck playground structure mimics the look of a childhood treehouse and features a complementary 2-5 year old structure nearby. Outdoor musical instruments are sandwiched in between for creative orchestral arrangements.



## Darlington County Parks and Recreation

Hampton Street Park  
300 Sanders Street  
Darlington, SC 29532

### Contact Information

Lee Andrews  
843-398-4700

[landrews@darlcosc.net](mailto:landrews@darlcosc.net)

**Project Completion:** June 2019





Bliss Products and Services was honored to be a part of the City of Hollywood's David Park Renovation! The City envisioned having a playground structure with a shade to provide relief from the sun with free-standing pieces surrounding. BPS was able to put together a design that fit their needs and budget, so we began the planning process. Installation began and everything went smoothly! The playground looks great and has many climbing opportunities for children to keep them active. With ground level components and a unitary surfacing, this playground is also inclusive for children of all abilities!



### City of Hollywood

David Park is located at  
510 N 33rd Court Hollywood,  
FL 33021

### Contact Information

David Vasquez  
954-921-3469

[dvasquez@hollywoodfl.org](mailto:dvasquez@hollywoodfl.org)

**Project Completion:** April 2020

**Total Cost:** \$147,945.00





The City of Miami Gardens contacted their sales representative, Patty Carruthers, to complete a new playground at Myrtle Grove Park. The City, being a long time customer, knew they wanted to purchase this equipment piggybacking off of the Manatee Contract in Florida. This was no problem for us! Being well versed in using contract purchasing networks is something we at Bliss Products are proud of. Once the installation was complete, the playground structures looked exciting to use, the poured in place surfacing was bright and colorful, and most of all, the citizens were elated with their new playground!



### City of Miami Gardens

Myrtle Grove Park is located at  
3030 NW 179th Street  
Miami Gardens, FL 33056

### Contact Information

Anthony Smith  
305-409-7350

[asmith1@miamigardens-fl.gov](mailto:asmith1@miamigardens-fl.gov)

**Project Completion:** April 2020

**Total Cost:** \$203,442.00

