



**COUNTY OF HENRICO
DEPARTMENT OF FINANCE
PURCHASING DIVISION
CONTRACT EXTRACT
NOTICE OF AWARD/RENEWAL**

DATE:	April 21, 2024
CONTRACT COMMODITY/SERVICE: <i>(include contracting entity if cooperative)</i>	Playground Equipment, Outdoor Fitness Equipment, Site Accessories and Related Products and Services
CONTRACT NUMBER:	2450A
COMMODITY CODE:	650.18
CONTRACT PERIOD:	April 21, 2024 through April 20, 2025
RENEWAL OPTIONS:	3 remaining one-year renewal periods through 2028
USER DEPARTMENT:	HCPS
Contact Name:	Dave Graham
Phone Number:	804-
Email Address:	dvgraham@henrico.k12.va.us
HENRICO COOPERATIVE TERMS INCLUDED:	Yes
SUPPLIER: Name:	Bliss Products and Services, Inc.
Address:	6831 S. Sweetwater Road
City, State:	Lithia Springs, GA 30122
Contact Name:	Kelly Lindsay
Phone Number:	757-305-6284
Email address:	kelly@blissproducts.com
ORACLE SUPPLIER NUMBER:	2076
BUSINESS CATEGORY:	Small
PAYMENT TERMS:	Net 30
DELIVERY:	Play & Park Structures - 8 weeks ARO
FOB:	County of Henrico
BUYER: Name:	Jon Creger, VCA, VCO
Title:	Procurement Analyst II
Phone:	804-501-5664
Email:	Cre057@henrico.us

This contract is the result of a competitive solicitation issued by the Department of Finance, Purchasing Division. A requisition must be generated for all purchases made against this contract and the requisition must reference the contract number.

A. Product Standards and Guidelines.

1. Offerors shall propose a comprehensive selection of Playground Equipment, Outdoor Fitness Equipment, Site Accessories and Related Products and Services as described below in accordance with Product Standards and Guidelines (Section II, Item A (3)).
 - a. **Playground Equipment** – A complete offering of Park and Playground Equipment for all ages and abilities including, but not limited to, themed systems, stand-alone activities, system components and replacement parts.
 - b. **Outdoor Fitness Equipment** – A complete offering of Outdoor Fitness Equipment for all ages and abilities including, but not limited to, challenge courses, strength building and resistance apparatus, multigenerational fitness, optional precision timing systems, and climbing walls.
 - c. **Site Accessories** – A complete offering of all Site Accessories such as, but not limited to, benches, picnic tables, planters, bike racks, bike lockers, shelter and shade structures, bleachers grandstands, scoreboards and other related items and equipment.
 - d. **Related Products** – Additional products such as skate park equipment and apparatus, bike park equipment and apparatus, dog park equipment and apparatus, and any other related products available from the Offeror.
 - e. **Services** – A complete offering of Services such as, but not limited to consulting, site and equipment package customization, layout, installation, repair and maintenance, removal, recycling and/or disposal, project management and any other related services available from the offeror with the exception of Construction-Related Services (see Section I, Item B-2).
2. Successful Offeror(s) shall have experience in providing, installing and maintaining the products and services offered.
3. Offeror shall have specific consulting experience and provision of products, equipment and accessories intended for k-12 students ages 2 thru 12 within a public school setting. Activities, equipment, and assemblies shall promote safety and accessibility, encourage social interaction and range of motion activities including spinning, sliding, rocking, swinging, climbing, crawling, bouncing, and balancing, stimulate sensory processing, and provide multiple levels of challenge (easy, moderate, difficult), in addition to promoting visibility of students by administrators and supervising staff members.
4. All Playground Equipment, Outdoor Fitness Equipment, Site Accessories and Related Products and Services shall be in compliance with all current and applicable Consumer Product Safety Commission (CPSC), Americans with Disabilities Act (ADA) and ADA Accessibility Guidelines (ADAAG), and American Society of Testing and Materials (ASTM) standards and other applicable laws and regulations in the Commonwealth of Virginia.
 - a. Manufacturers shall be a member of the International Paly Equipment Manufacturers Association (IPEMA) and ISO 9001 and 14001 certified. All equipment shall be IPEMA Certified and meet all current ASTM, Consumer Product Safety Commission (CPSC) and IPEMA standards. Certifications shall be submitted with your proposal.
 - b. Applicable ASTM Standards:
 - i. ASTM-F1487-11 – Standard Consumer Safety Performance Specification for Playground Equipment for Public Use
 - ii. ASTM-F1292-13 - Standard Specification for Impact Attenuation of Surface Systems within the Use Zone of Playground Equipment
 - iii. ASTM-1951-09 - Standard Specification for Determination of Surface Systems Under and Around Playground Equipment


- iv. ASTM-F2049-11 - Fences/Barriers for Public, Commercial and Multifamily Residential Use Outdoor Play Areas
 - v. ASTM-F2075 - Standard Specifications for Engineered Wood Fiber for Use as a Playground Safety Surface and Around Playground Equipment
- c. CPSC Printed Handbook for Public Playground Safety – Equipment must meet all guidelines stated in the Handbook published by the CPSC. Copies of Publication No. 325 may be obtained from the U.S. Consumer Product Safety Commission, Washington, DC 20007.
 - d. IPEMA Certification – IPEMA provides third-party Product Certification services for U.S. and Canadian public play equipment and U.S. public play surfacing materials. The services provide for the validation of a participant’s certification of conformance to the standards referenced above. For more information on certification and membership, visit IPEMA’s website at www.ipema.org.
 - e. All equipment and play surfacing materials must be IPEMA Certified. Certification must be included with your proposal submission.
5. All products offered under the resulting contract(s) that require assembly and/or installation shall be assembled and/or installed by manufacturer’s certified installers. Offerors must submit, with their proposal, the names and addresses of each certified installer/subcontractor. All work shall be performed according to the standards established by the terms, specifications, drawings, and installation notes for each project, and meet manufacturer’s specifications and industry standards. It shall be the obligation of the installer to obtain clarification from the project manager concerning questions or conflicts in the specifications, drawings and installation notes in a timely manner.
 6. Any required site preparation a Successful Offeror may perform shall exclude Construction-Related Services (for definition See Section I, Item B-2). If Construction-Related Services are required for proper installation of any equipment, HCPS must be notified before any work may be performed.
 7. The Successful Offerors shall have the capability to recommend and design appropriate play systems/structures to fit the need of the site for age groups and abilities as determined by HCPS. Successful Offeror must provide drawings (plan and elevation) of all pertinent aspects of the play equipment and its method of connection to the work. Final playground layout drawings shall be to scale and legible and must show location of play equipment and dimension of use zones. All designs shall indicate ADA accessible routes, and percentage of ADA accessible components.
 8. Offerors shall describe its company’s project management capabilities from initiation through acceptance by HCPS.
 9. Offeror shall describe any training and educational programs it offers. This may include the ability to provide on-site or online training and educational seminars on technical knowledge.
 10. Offerors shall provide standard delivery time (in days) and any options for expediting delivery, if applicable.
 11. Offerors shall address their backorder policy.
 12. Offerors shall address their restocking fees and procedures for returning products.
- B. Contractor Requirements.
1. Replacement parts shall be available from the Successful Offeror(s) for a minimum of fifteen (15) years on all play systems and shall be provided within two (2) weeks from the time an order is placed by HCPS.


2. The Successful Offeror(s), installers and subcontractors performing services are required to, and shall, comply with all Occupational Safety and Health Administration (OSHA), State and HCPS Safety and Occupational Health Standards and any other applicable rules and regulations. Successful Offeror(s), installers and subcontractors shall be held responsible for the safety of their employees and any unsafe acts or conditions that may cause injury or damage to any persons or property within and around the work site area under any resulting contract(s).
 3. Delivery location shall be stated on each order document (purchase order, letter order, etc.) issued by HCPS. All items are to be delivered fully assembled or assembled by installer or subcontractor on site as designated by HCPS.
 4. When the Purchase Order calls for inside delivery, the Successful Offeror(s) shall deliver in accordance with the delivery instructions provided by HCPS and shall provide assembly, set in place, made ready for use, and removal of all packaging and debris.
 5. The Successful Offeror(s) shall authorize immediate replacement of any items that has been damaged in transit.
 6. The Successful Offeror(s) shall be required to provide quotations on a case-by-case basis for optional related work such as, but not limited to, removal and/or reinstallation of playground and fitness equipment, timbers, and fencing as may be required to provide a full turnkey solution to HCPS.
- C. HCPS will designate an individual to act as their representative with respect to the work to be performed under this contract. Such individual shall have the authority to transmit instructions, receive information, and interpret and define HCPS' policies and decisions with respect to the contract.



BLISS PRODUCTS AND SERVICES, INC.

6831 S. Sweetwater Road
Lithia Springs, GA 30122

 (800) 248-2547

 (770) 920-1915

 info@blissproducts.com

January 4, 2023

County of Henrico
Mr. John Creger, VCA, VCO
8600 Staples Mill Road
Henrico, VA 23273-0775

RE: RFP No. 22-2450-IJEC

Mr. Creger-

I wanted to take a moment to thank you for the opportunity to submit a BAFO response to the RFP referenced above. I am hopeful that continue to recognize the value of having Bliss Products & Services as a partner to the County of Henrico.

Enclosed is the information you requested. I have listed a few items below for clarification.

1. In an effort to provide ease of pricing – all Play & Park Playground Structures will be priced at 35% off of list price.
2. Play & Park Structures freestanding items will be priced at 8% off of list for this contract.
3. All other vendors submitted with the original RFP will be discounted as shown on bid documents.

Should you need further information, please do not hesitate to contact me via email at gregg@blissproducts.com or via phone at 800-248-2547.

Sincerely,

Gregg Bliss
President

RFP 22-2450-11JEC

Playground Equipment, Outdoor Fitness Equipment, Site Accessories and Related Products and Services

Offeror: Bliss Products and Services, Inc. March 16, 2023

1. Will the warranty period begin upon substantial completion of a playground project?
 1. **Yes, the warranty period will begin upon substantial completion of a playground project.**
2. At the beginning of the warranty period, can you provide a Warranty Summary Page including item or component descriptions, manufacturer's inventory number, parts description, warranty duration, contact information (phone numbers to contact for warranty replacement), and availability to ship (immediately ship item vs. current production lead time)? See attached **Attachment A** for example.
 1. **Yes, Bliss will provide a warranty summary page per the specifications listed above.**
3. What is the duration of the installation (labor) warranty?
 1. **Installation carries a one year warranty from date of substantial completion.**
4. Following the completion of the installation, can your firm provide scaled record drawings of the actual installation as part of project closeout? (drawings shall be provided in electronic pdf format; ACAD 2016 format or equal; and two sheets printed in color as 11"x17" for the Owner's maintenance manual)
 1. **The requested drawings are included with our standard owner's kit provided upon completion of each site.**
5. Can your firm provide individual parts lists and diagrams with all closeout and warranty materials furnished for warranty and maintenance purposes?
 1. **See #4 above, this information is provided in our owner's kit.**
6. For consulting of new equipment installation, is it possible to include a minimum of 3 viable locations for installation of equipment, in order to encourage access, promote safety and supervision, and to avoid creating drainage issues?
 1. **Yes it is possible to provide three site locations for each area. Note, however that walking the school/park on the front end with the customer helps to foster an understanding and increases the chance of the best location being selected up front.**
7. HCPS would like playground borders to default to plastic type barriers, unless both parties agree in writing to installation of wood borders. Is this acceptable?
 1. **Yes, plastic landscape timbers are acceptable.**
8. For all areas disturbed outside of the footprint of the new playground, can you provide at minimum, 6" of topsoil, seed and straw to stabilize the area?
 1. **Yes, topsoil, seed and straw can be provided an installed per the customer's request.**
9. Can you provide a safety inspection of newly installed playground structures and associated appurtenances upon completion? Can you provide ongoing safety inspections at 6-month intervals? What are the fees per visit for safety inspections?
 1. **Yes, Bliss Products and Younger Services can provide a safety inspection at the completion of each product and at six month intervals during the initial 24 months after substantial completion. A safety inspection is considered a walk through with Henrico staff and a dialogue and verbal dialogue of any/all areas of concern. This inspection will be provided a no additional charge to Henrico County. This inspection is not and should not be considered a formal audit.**
10. Can you provide temporary safety barriers or replacement panels which can be installed by HCPS staff to replace damaged or missing equipment panels for safety purposes at no additional charge? How many temporary panels will be furnished with each new installation?

- 1. Upon receipt of the first order, Bliss Products will order two additional barrier panels (colors to be selected by customer), these two panels should be adequate to support this contract throughout its lifecycle. Since the panels are a temporary solution, they are able to be utilized repeatedly and are simply meant as a means to keep the play area open while awaiting the proper replacement part.**
11. HCPS may elect to self-perform certain tasks or utilize other resources to assist with the site preparation process. The successful offeror shall cooperate fully with other entities as assigned and designated to assist with the process. Is this acceptable?
 - 1. Yes, this is acceptable.**
12. When submitting invoices, HCPS would like pricing to be itemized by individual component cost, rather than lump pricing of entire assembly (see **Attachment A** for example). Is this acceptable?
 - 1. Yes, Bliss will itemize by component for all equipment, installation will continue to be invoiced as a single line item.**
13. Submit pricing. The price shall include all costs associated with providing the services and materials outlined in Sec. II of this RFP. Price shall be evaluated by pricing on Attachment B.
 - 1. Pricing submitted in accordance.**

a. Provide all costs as it relates to the proposed solution for the Scenario on Attachment B –

BAFO Pricing for Hypothetical Springfield Elementary School Playground Cost Model. Original project description is listed below. Also provide a separate listing of all prices being offered in this proposal.

Sample Project 1 – Replace Existing Playground – Offerors are required to visit a designated existing HCPS playground during the pre-proposal conference (location: Springfield Park Elementary School – 4301 Fort McHenry Parkway, Glen Allen, VA 23060) for the purpose of developing a sample proposal for replacing an existing playground. (Note: only the activities, orientations, and features offered by the existing playground are expected to be represented in the model proposal; there is no expectation that exact dimensions of each feature be replicated nor that the materials and equipment used in the existing playground be matched for the model proposal; in cases where there is no equivalent function or similar feature available in today’s modernized playground equipment Offerors may simply note that none is available). Offerors will be given an opportunity to tour the existing playground during the pre-proposal meeting and take notes and photos of the features and activities offered by the existing equipment, for use in creating a model proposal for Sample Project #1. Responses to Sample Project #1 are not expected to be an identical replacement/exact model of the existing playground with all of its dimensions and features in exact form. Rather, Offerors should model and present their offering of “today’s” version of each of the various activities, orientations, and features contained within the existing playground equipment.

RE: Henrico RFP - Sample 1

Description	Quantity	Unit	Unit Price	Extended Price
Consulting Services - Concept Planning, Equipment Layout and Customization	5	Hour	\$100.00	\$500.00
Equipment Package and Timbers - Provide Attachment H	1	Lump Sum	\$140,000.00	\$140,000.00
Freight	1	Lump Sum	\$12,438.00	\$12,438.00
OffSite Storage (Assume 30 Days) - Includes Delivery to Site	1	Lump Sum	\$2,100.00	\$2,100.00
Mobilization/Site Safety - Offload New Equipment, Set Up Safety Provisions	1	Lump Sum	\$1,800.00	\$1,800.00
Disassembly, Removal and Disposal - Borders Ramps, Curbs	0	Hour	Included in Line Item Below	\$0.00
Disassembly, Removal and Disposal - EWF (Engineered Wood Fiber)	180	Cubic Yard	\$75.00	\$13,500.00
Disassembly, Removal and Disposal - Existing Equipment Appurtenances	26	Hour	\$400.00	\$10,400.00
Furnish and Install New Package	130	Hour	\$400.00	\$52,000.00
Install New Borders and ADA Ramp	10	Hour	\$400.00	\$4,000.00
Furnish and Install New Safety Surfacing, EWF	180	Cubic Yard	\$42.00	\$7,560.00
Demobilization/Opening Play Area - Clean Up	5	Hour	\$400.00	\$2,000.00
Consulting Services - Final Inspection and/or Reinspection by NRPA-CPSI Certified Staff	4	Hour	\$0.00	\$0.00
Other				
Other				
Grand Total				\$246,298.00

*Final Inspection will be billed at \$0.00 per hour for a Bliss and/or Younger Employee
 Should the County Require an independent inspector the rate of \$250 per hour plus travel would apply. Inspections will occur twice annually during Summer/Winter break.

**Off-Site Storage Cost is Based On Each Playground not a 30 day window
 Equipment is secured at an insured/bonded facility

*** Consulting Services will be billed at \$100 per hour and that fee will be waived if the design

results in a order above \$50,000.00

Attachment B - BAFO Pricing

Manufacturer	Category	Catalog Date	MFR Price List Date	Percentage Discount off of List
Play & Park Structures - STRUCTURE **	Structure	FY 2023	12/21/2022	35.00%
Play & Park Structures - FREESTANDING	Freestanding	FY 2023	12/21/2022	8.00%
ACTION PLAY TIMBERS	Landscape Timbers	FY 2023	12/1/2022	10.00%
ZAEGER EWF	EWF	FY 2023	12/1/2022	0.00%
but have been priced according to FY2023 pricing				

Standard Delivery Time in Days ARO
 Design Services Per Hour
 *Installation Charge Per Hour

8 Weeks ARO Complete Order w/Colors
\$100 to be credited toward invoice if equipment is
\$400 per hour

Please Indicate Your Status	
Manufacturer	
Reseller/Dealer	BPS is a Dealer for the Above MFRS
Other	



County of Henrico

RFP – 22-2450-11JEC

PLAYGROUND EQUIPMENT, OUTDOOR FITNESS, SITE ACCESSORIES AND RELATED PRODUCTS & SERVICES

Submitted by:
Bliss Products & Services Inc.

6831 S. Sweetwater Rd, Lithia Springs,
GA 30122

1/04/2023 @ 2:00pm

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Within this section are the forms that are requested as part of the RFP response package. They have been scanned and are inserted for ease of navigation.



BLISS PRODUCTS AND SERVICES, INC.

6831 S. Sweetwater Road
Lithia Springs, GA 30122

(800) 248-2547

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info@blissproducts.com

January 4, 2023

County of Henrico
Mr. John Creger, VCA, VCO
8600 Staples Mill Road
Henrico, VA 23273-0775

RE: RFP No. 22-2450-IIJEC

Mr. Creger-

I wanted to take a moment to thank you for the opportunity to submit a response to the RFP referenced above. I am hopeful that throughout this proposal you will recognize the value of having Bliss Products & Services as a partner to the County of Henrico.

Attachment H will list over sixty different vendors that Bliss Products partners with to provide complete recreation solutions. All of these vendors are being offered to the County as part of this contract. These vendors provide the widest range of products possible on the market. Play & Park Structures, Big Toys, Uplay, Elephant Play and Dynamo are a sampling of those that are core focused on the playground equipment arena, while vendors such as GT Grandstands, Colorado Time Systems, Jaypro Sports, National Recreation Systems, Ultra Site and Action Fit help to round out the product offerings.

In addition, you will be introduced to the many ways both Bliss Products & Services, Inc. and Play & Park Structures support schools on a daily basis both locally and nationally. Some of those are highlighted below:

- 1) Play & Park Structures – the only vendor that offers a curriculum kit designed for Pre-K through 3rd Grade. This kit helps any teacher utilize the playground and directly tie the activity back to a SOL.
- 2) Play & Park Structures – the only playground vendor to selected to be a Platinum Level Sponsor of the NSPMA (National School Plant Management Association).

In closing, this RFP response has been formatted per the direction set forth in the bid documents and showcases our ability to support the County of Henrico in all their playground projects for many years to come. Should you need further information, please do not hesitate to contact me via email at gregg@blissproducts.com or via phone at 800-248-2547.

Sincerely,

Gregg Bliss
President

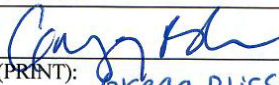
www.BLISSPRODUCTS.com

**ATTACHMENT A
PROPOSAL SIGNATURE SHEET**

My signature certifies that the proposal as submitted complies with all requirements specified in this Request for Proposal ("RFP") No. 22-2450-11JEC – Playground Equipment, Outdoor Fitness Equipment, Site Accessories and Related Products and Services.

My signature also certifies that by submitting a proposal in response to this RFP, the Offeror represents that in the preparation and submission of this proposal, the Offeror did not, either directly or indirectly, enter into any combination or arrangement with any person or business entity, or enter into any agreement, participate in any collusion, or otherwise take any action in the restraining of free, competitive bidding in violation of the Sherman Act (15 U.S.C. Section 1) or Sections 59.1-9.1 through 59.1-9.17 or Sections 59.1-68.6 through 59.1-68.8 of the Code of Virginia.

I hereby certify that I am authorized to sign as a legal representative for the business entity submitting this proposal.

LEGAL NAME OF OFFEROR (DO NOT USE TRADE NAME):	
	Bliss Products and Services, Inc.
ADDRESS:	
	4831 S. Sweetwater Rd.
	Lithia Springs, GA 30122
FEDERAL ID NO:	
	59-2413031
SIGNATURE:	
NAME OF PERSON SIGNING (PRINT):	Gregg Bliss
TITLE:	President
TELEPHONE:	800-248-2547
FAX:	800-920-1915
EMAIL ADDRESS:	info@blissproducts.com
DATE:	12/16/2022

BUSINESS CLASSIFICATION FORM

ATTACHMENT B
BUSINESS CATEGORY CLASSIFICATION FORM

Company Legal Name: Bliss products and services, Inc.

This form completed by: Signature: [Signature] Title: President

Date: 12/16/2022

PLEASE SPECIFY YOUR BUSINESS CATEGORY BY CHECKING THE APPROPRIATE BOX(ES) BELOW.

(Check all that apply.)

- Small Business, Women-owned Business, Minority-owned Business, Service-disabled Veteran, Employment Services Organization, Non-SWaM

SUPPLIER REGISTRATION - The County of Henrico encourages all suppliers interested in doing business with the County to register with eVA, the Commonwealth of Virginia's electronic procurement portal, http://eva.virginia.gov.

eVA Registered? Yes No

If certified by the Virginia Minority Business Enterprises (DMBE), provide DMBE certification number and expiration date.

DEFINITIONS

For the purpose of determining the appropriate business category, the following definitions apply:

"Small business" means a business, independently owned and controlled by one or more individuals who are U.S. citizens or legal resident aliens, and together with affiliates, has 250 or fewer employees, or annual gross receipts of \$10 million or less averaged over the previous three years.

"Women-owned business" means a business that is at least 51 percent owned by one or more women who are U.S. citizens or legal resident aliens, or in the case of a corporation, partnership, or limited liability company or other entity, at least 51 percent of the equity ownership interest is owned by one or more women who are U.S. citizens or legal resident aliens, and both the management and daily business operations are controlled by one or more women.

"Minority-owned business" means a business that is at least 51 percent owned by one or more minority individuals who are U.S. citizens or legal resident aliens, or in the case of a corporation, partnership, or limited liability company or other entity, at least 51 percent of the equity ownership interest in the corporation, partnership, or limited liability company or other entity is owned by one or more minority individuals who are U.S. citizens or legal resident aliens, and both the management and daily business operations are controlled by one or more minority individuals.

"Minority individual" means an individual who is a citizen of the United States or a legal resident alien and who satisfies one or more of the following definitions:

- 1. "African American" means a person having origins in any of the original peoples of Africa and who is regarded as such by the community of which this person claims to be a part.
2. "Asian American" means a person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent, or the Pacific Islands, including but not limited to Japan, China, Vietnam, Samoa, Laos, Cambodia, Taiwan, Northern Mariana Islands, the Philippines, a U.S. territory of the Pacific, India, Pakistan, Bangladesh, or Sri Lanka and who is regarded as such by the community of which this person claims to be a part.
3. "Hispanic American" means a person having origins in any of the Spanish-speaking peoples of Mexico, South or Central America, or the Caribbean Islands or other Spanish or Portuguese cultures and who is regarded as such by the community of which this person claims to be a part.
4. "Native American" means a person having origins in any of the original peoples of North America and who is regarded as such by the community of which this person claims to be a part or who is recognized by a tribal organization.

"Service disabled veteran business" means a business that is at least 51 percent owned by one or more service disabled veterans or, in the case of a corporation, partnership, or limited liability company or other entity, at least 51 percent of the equity ownership interest in the corporation, partnership, or limited liability company or other entity is owned by one or more individuals who are service disabled veterans and both the management and daily business operations are controlled by one or more individuals who are service disabled veterans.

"Service disabled veteran" means a veteran who (i) served on active duty in the United States military ground, naval, or air service, (ii) was discharged or released under conditions other than dishonorable, and (iii) has a service-connected disability rating fixed by the United States Department of Veterans Affairs.

"Employment services organization" means an organization that provides community-based employment services to individuals with disabilities that is an approved Commission on Accreditation of Rehabilitation Facilities (CARF) accredited vendor of the Department of Aging and Rehabilitative Services.

ATTACHMENT C
Virginia State Corporation Commission (SCC)
Registration Information

The Offeror:

is a corporation or other business entity with the following SCC identification number:
F187194 -OR-

is not a corporation, limited liability company, limited partnership, registered limited liability partnership, or business trust -OR-

is an out-of-state business entity that does not regularly and continuously maintain as part of its ordinary and customary business any employees, agents, offices, facilities, or inventories in Virginia (not counting any employees or agents in Virginia who merely solicit orders that require acceptance outside Virginia before they become contracts, and not counting any incidental presence of the Bidder in Virginia that is needed in order to assemble, maintain, and repair goods in accordance with the contracts by which such goods were sold and shipped into Virginia from Bidder's out-of-state location) -OR-

is an out-of-state business entity that is including with this bid/proposal an opinion of legal counsel which accurately and completely discloses the undersigned Bidder's current contracts with Virginia and describes why those contracts do not constitute the transaction of business in Virginia within the meaning of §13.1-757 or other similar provisions in Titles 13.1 or 50 of the Code of Virginia.

Please check the following box if you have not checked any of the foregoing options but currently have pending before the SCC an application for authority to transact business in the Commonwealth of Virginia and wish to be considered for a waiver to allow you to submit the SCC identification number after the due date for bids:

**ATTACHMENT D
PROPRIETARY/CONFIDENTIAL INFORMATION IDENTIFICATION**

NAME OF OFFEROR: Bliss Products and Services, Inc.

Trade secrets or proprietary information submitted by an Offeror shall not be subject to public disclosure under the Virginia Freedom of Information Act; however, the Offeror must invoke the protections of Va. Code § 2.2-4342(F) in writing, either before or at the time the data or other materials are submitted. The Offeror must specifically identify the data or materials to be protected including the section(s) of the proposal in which it is contained and the pages numbers, and state the reasons why protection is necessary. A summary of trade secrets and proprietary information submitted shall be submitted on this form. The proprietary or trade secret material submitted must be identified by some distinct method such as highlighting or underlining and must indicate only the specific words, figures, or paragraphs that constitute trade secret or proprietary information. Va. Code § 2.2-4342(F) prohibits an Offeror from classifying an entire proposal, any portion of a proposal that does not contain trade secrets or proprietary information, line item prices, or total proposal prices as proprietary or trade secrets. If, after being given reasonable time, the Offeror refuses to withdraw such classification(s), the proposal will be rejected.

SECTION/TITLE	PAGE NUMBER(S)	REASON(S) FOR WITHHOLDING FROM DISCLOSURE
TAB 7- PRICING	ENTIRE	SECTION CONTAINS DISCOUNT LEVELS
	ATTACHMENT H	

**ATTACHMENT F
DIRECT CONTACT WITH STUDENTS**

Name of Offeror: Bliss Products and Services, Inc.

Pursuant to Va. Code § 22.1-296.1, as a condition of awarding a contract for the provision of services that require the contractor or employees of the contractor to have direct contact with students on school property during regular school hours or during school-sponsored activities, the contractor shall provide certification of whether any individual who will provide such services has been convicted of any violent felony set forth in the definition of barrier crime in subsection A of Va. Code § 19.2-392.02; any offense involving the sexual molestation, physical or sexual abuse, or rape of a child; or any crime of moral turpitude.

Any individual making a materially false statement regarding any such offense is guilty of a Class 1 misdemeanor and, upon conviction, the fact of such conviction is grounds for the revocation of the contract to provide such services and, when relevant, the revocation of any license required to provide such services.

As part of this submission, I certify the following:

- None of the individuals who will be providing services that require direct contact with students on school property during regular school hours or during school-sponsored activities have been convicted of a violent felony set forth in the definition of "barrier crime" in Va. Code § 19.2-392.02(A); an offense involving the sexual molestation, physical or sexual abuse, or rape of a child;

And (select one of the following)

- None of the individuals who will be providing services that require direct contact with students on school property during regular school hours or during school-sponsored activities have been convicted of any felony or any crime of moral turpitude.

or

- One or more individuals who will be providing services that require direct contact with students on school property during regular school hours or during school-sponsored activities has been convicted of a felony or crime of moral turpitude that is not set forth in the definition of "barrier crime" in Va. Code § 19.2-392.02(A) and does not involve the sexual molestation, physical or sexual abuse, or rape of a child. (In the case of a felony conviction meeting these criteria, the contractor must submit evidence that the Governor has restored the individual's civil rights.)


Signature of Authorized Representative

Gregg Bliss
Printed Name of Authorized Representative

Bliss Products and Services, Inc.
Printed Name of Vendor
(if different than Representative)

TAB 2 – STATEMENT OF THE SCOPE

The Scope of Work as Defined within the RFP has been identified below as understood by Bliss Products & Services, Inc. The RFP specifically asked the respondent to be concise, the information below is a summary of the requirements and BPS' understanding of each requirement. Any further information provided will be identified and placed in the Appendix as requested. BPS looks forward to presenting to the County of Henrico to provide more in depth information.

There are six main categories identified as a requirement for successful completion of this project: equipment offering/selection, design services, safety, installation and construction, education and training, and lastly on-going support and longevity. Each of these categories will be addressed below:

EQUIPMENT OFFERING

As identified within Attachment H Bliss Products & Services, Inc has identified over sixty vendors that are available to support the County of Henrico with playground and site services. In addition to the playground, equipment, outdoor fitness equipment, site accessories and related products that have been called out (Section II A.1 a-d) – BPS has included outdoor bleachers, grandstands, fountains and many other products. The complete listing of all vendors has been included within the RFP.

Some of the requirements established in the RFP for equipment offerings are as follows:

1. The primary playground vendor for bid purposes is Play & Park Structures, Inc. a Playcore owned company.
2. Play & Park Structures is a member of IPEMA and playgrounds designed meet ASTM and CPSC guidelines, the IPEMA certifications for the areas proposed are located behind the design drawings within this bid package.
3. Play & Park Structures is manufactured in Fort Payne, AL at the Playcore facility that is both ISO9001 and 14001 certified.

DESIGN SERVICES

Playground design requires consideration of several key components. Age, environment, budget, standards and most importantly the children all play a part in selection and development of a play area that is safe, engaging, equitable and fun. Bliss Products & Services has over thirty years of experience in creating play spaces that are thoughtful and creative.

Some of the requirements established in the RFP for design offerings are as follows:

1. Offeror should have specific consulting experience and provision of products, equipment and accessories for children in grades K-12 – BPS and Play & Park Structures believe in thoughtful design. Thoughtful design as defined is taking into account our core philosophies that focus on the following:
 - a. *The Whole Child* – Social, Cognitive, Communication, Physical and Sensory – Then the process is taken a step further to incorporate the Seven Principals of Inclusive Design
 - b. *The Seven Principals of Inclusive Design*. – Be Fair, Be Included, Be Smart, Be Independent, Be Safe, Be Active and Be Comfortable. **(National Demonstration Site Status for Inclusion)**

- c. These two objectives are then coupled with ensuring that the variety of play equipment meets the different styles/types of play – spinning, brachiating, balancing, sliding and climbing. **(National Demonstration Site Status for Play ON!)**
 - d. Further information on All of These programs (including what is a National Demonstration Site) and their benefits can be found behind Tab 10 – Appendix
2. Offeror must include ADA accessible routes and percentage of ADA Components
 - a. All drawings include a table that show the required number of ground level and accessible upper level events as well as the actual number of events
 - b. BPS will work with the County of Henrico to ensure that ADA accessible routes are identified and included

INSTALLATION, CONSTRUCTION AND PROJECT MANAGEMENT

The County of Henrico has identified some key areas of installation for evaluation, qualified installers, project management, coordination and communication.

1. Bliss Products & Services has a network of twenty plus installers that support our playground projects throughout the Southeastern United States. However, for the purposes of this contract BPS is proposing to use an established installer that will stay a key part of the team throughout the contract term. Younger Services is a reputable, highly professional, and experienced installer that is truly the final piece to our solution. Daniel Younger, Owner, is a certified installer for PPS and other manufacturers.
 - a. Younger Services, Daniel Younger, 5242 Ferry Branch Lane, Lothia, MD 20711 – 443.684.3724
 - b. Should additional installation requirements be necessary BPS will work with the County of Henrico to ensure that any installer is vetted and approved prior to commencement of any work.
2. BPS has a Project Management Plan that identifies the key areas of project management for all projects. An executive overview of this plan can be found behind Tab 10 – This plan focuses on the following key phases of Project Management
 - a. Expectations – Establishing a clear SOW, Timeline and Identifying Responsible Parties/Milestones
 - b. Communications – On-Site Meetings, Progress Reports, Consistent Personnel
 - c. Scheduling – Thoughtful Scheduling, GANNT Charts, MS Project Utilization
 - d. Accountability – Preventative Actions, Transparency
3. BPS has zero OSHA or Safety Accidents
4. BPS has a DOD approved Safety Plan that can be provided for each project
5. Inventory – Part of a successful project is immediately identifying any discrepancy, damage or shortage of equipment upon delivery. BPS and its installers perform a thorough inventory before any work begins. By identifying any issues upfront, typically replacement parts can be manufactured and shipped without affecting the job schedule.

EDUCATION/TRAINING

Play & Park Structures as part of the Playcore umbrella offers its customers a unique and vast array of training and educational resources.

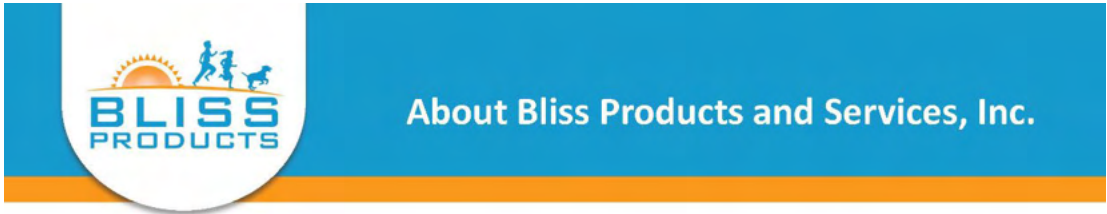
Combining research and evidence-based resources, Play & Park Structures provides tailored learning opportunities and continuing education units (CEUs) at seminars, conferences, lunch & learn events, and virtual webinars. Our interactive sessions and continuing education services are personalized to meet the individual needs and goals of each audience. Check out our current offering of courses at education.playcore.com

Offering a wide range of topics from inclusive play, nature play, aquatics, bike path, surfacing and many more, BPS is poised to become the recreational education partner for the County of Henrico.

ON-GOING SUPPORT/LONGEVITY

Again, one of the key advantages of working with a primary partner that is part of the Playcore umbrella is the backing of the largest playground equipment manufacturer in the world. The past few years have brought to light many challenges for our industry. Playcore has retained reasonable lead times, product availability and production capabilities. This ability to sustain with minimal impact during such trying times is a true testament to the size and ability to withstand challenges of such an organization.

1. Lead Times – Currently at Eight Weeks for Play and Park Structures
2. Expedited Delivery – This will be handled on a case by case basis and could depend on a combination of ready to ship units and off the shelf products
3. Warranty – One of the most comprehensive in the Industry – Full Details can be found later in the document – the summary is as follows:
 - a. Limited lifetime – Post, Decks, Clamps, Hardware
 - b. 15 Year – Rotomold Plastic, Decks, Pipes, Rails, Loops
4. Replacement Parts – Replacement Parts should be available throughout the lifecycle of the equipment. This is yet another advantage of partnering with the largest playground manufacturer in the world. The ability to sustain inventory, longevity in business and on-going customer support are crucial to the daily success of each project.



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.

800-248-2547

info@blissproducts.com

www.blissproducts.com

RESUMES

ATTACHED

FINANCIAL ABILITY

BPS has bonding capabilities in excess of 2M dollars

BPS carries insurance in excess of 5M dollars

FEIN: 59-2413631

DUNS: 003456408

E-VERIFY: 329247

23M Revenue Annually

Matrix of Work Performed for Schools in Past Five Years

Jobs Completed within the State of Virginia Over 50K

Jobs Completed Previous 3 Years Over 90K

Quote #	Customer Name	Primary Vendor	Project	Project Details (100 characters)	Grand Total
32705	City of Chesapeake Parks & Recreation	Ultra-Site	Additional Table		\$58,480.00
37403	Roanoke City Public Schools	Park Structures	Wasena Elementary		\$88,968.41
37671	City of Virginia Beach	Soft Play, LLC	Kempsville Community Rec Center		\$74,590.13
38403	City of Virginia Beach	Ultra-Site	Bayville Improvements		\$76,455.75
38740	SB Ballard Construction Co	Park Structures	2017 FINAL CAMP ALLEN	* BPS PPS ULT ZEA DRP BLAKE	\$217,308.57
39494	City of Virginia Beach	Park Structures	Thalia Trace	Blake's Yard 2501 E Indian River Rd Norfolk, VA 23523 Thalia Trace Park 169 Thalia Trace Drive more ...	\$99,585.60
39496	City of Virginia Beach	Park Structures	Northridge	Blake's Yard 2501 E Indian River Rd Norfolk, VA 23523	\$76,766.22
39497	City of Virginia Beach	Park Structures	Point o Woods	Blake's Yard 2501 E Indian River Rd Norfolk, VA 23523	\$76,182.95
39553	City of Virginia Beach	Park Structures	Wolfsnare Park	Wolfsnare Park 2601 E. Indian River Road Norfolk, VA 23523	\$97,791.16
39603	The Whiting-Turner Contracting Co	Park Structures	Norfolk Academy with EWF - Option 3		\$74,154.07
39654	City of Chesapeake Parks & Recreation	Ultra-Shelter	Hurricane Damaged Shelter Replacement	S	\$60,038.89
39726	City of Chesapeake Parks & Recreation	Ultra-Shelter	Duo-Top Shelter with Cupola		\$75,000.53
40022	Chesapeake Public Schools	Park Structures	GBP - New Construction	APS BPS PPS SMX ZEA BLAKE	\$282,483.43
40487	City of Chesapeake Parks & Recreation	Action Play Systems	Rena B Wright		\$100,035.55
40499	City of Chesapeake Parks & Recreation	Zeager	Deep Creek Central		\$104,448.12
40665	City of Fairfax	Park Structures	Ratcliff Park	add owner's kit - add NDS for Playon - COLORS - Blue Decks, Blue Shade, Sky Green Metal; Orange Roto more ...	\$139,972.41
40967	City of Virginia Beach	Installer	Red Wing Park		\$152,623.53
41066	Northgate Property Services	Action Play Systems	Gardiner NY New 5 to 12 and New 2 to 5		\$61,474.92
41637	CNIC Facilities and Acquisitions	BLISS PRODUCTS	Norfolk Naval Shipyard	* APS BLISS BPS DRP PPS BLAKE - 7/16	\$221,075.14
41741	City of Chesapeake Parks & Recreation	Park Structures	Plymouth Park	APS BPS PPS ZEA BLAKE	\$92,000.00
41742	City of Chesapeake Parks & Recreation	Park Structures	Southwestern	APS BPS PPS ZEA BLAKE	\$113,000.00
41756	The Dittmar Company	Park Structures	Wildwood Park	BPS DRP PPS BLAKE - 6/11	\$89,769.85
42107	St. Gregory the Great School	Installer	New Playground	BPS PPS ZEA BLAKE - 7/30	\$58,613.71
42824	City of Chesapeake Parks & Recreation	Park Structures	Southeastern	TCPN APS BPS PPS ZEA BLAKE - 6/4	\$103,315.88
43375	City of Virginia Beach	Park Structures	Groveland Park	* BACKUPS APS PPS ULT ZEA BLAKE - 8/6	\$91,918.97
43412	City of Virginia Beach	Park Structures	Cape Story Plastic Timbers	* BACKUPS APS PPS ULT ZEA BLAKE - 8/22	\$58,999.06
43440	City of Norfolk Office of the Purchasing Agent	Action Play Systems	St. Helena	APS BPS PPS ZEA BLAKE - 9/18 SHIP 9/9 AT THE LATEST	\$77,833.86
43502	Williamsburg James City County Public School	Park Structures	Playground Equipment - DJ Montague	TCPN PPS BLAKE	\$79,911.41
43608	Alexandria City Public Schools	Duraplay	John Adams Repair	* BPS DRP NTR PPS ZEA BLAKE - 8/13	\$111,860.35
43878	City of Virginia Beach	Park Structures	Munden Point - Play Area - Number 1	WHEN? APS PPS ULT ZEA BLAKE 11/30/18 PPS 8290634 RELEASED TO DELIVER 12/10/18; P more ...	\$209,723.89
44485	City of Chesapeake Parks & Recreation	Park Structures	BM Williams Elementary School	* APS PPS ZEA BLAKE	\$82,388.64
44487	City of Chesapeake Parks & Recreation	Park Structures	Thoroughgood Elementary School	* APS PPS ZEA BLAKE	\$122,775.83
44783	City of Chesapeake Parks & Recreation	Park Structures	Sale Unit - for OGLP	* APS PPS ZEA BLAKE	\$99,194.00
44910	City of Virginia Beach	Installer	Charlestown	APS PPS SWS ULT ZEA BLAKE	\$144,558.56
45143	City of Virginia Beach	National Recreation Systems	Bleachers	NRS BLAKE	\$65,287.90
45181	City of Virginia Beach	Park Structures	Birchwood	WHEN? APS PPS SWS ULT ZEA BLAKE	\$117,146.79
45534	City of Virginia Beach	Structural Wood Systems	Luxford Elementary		\$77,196.85
46602	City of Chesapeake Parks &	Ultra-Shelter	NWRP Duo Top	BPS USH BLAKE (ship to Park ; drawings to Kelly)	\$94,780.00

Quote #	Customer Name	Primary Vendor	Project	Project Details (100 characters)	Grand Total
	Recreation				
47369	Williamsburg James City County Public School	Park Structures	Norge Elementary 5 to 12 - Option 1 Sunbeam	PPS ZEA BLAKE - 7/16	\$53,401.00
47452	Virginia Beach City Public Schools	Park Structures	Princess Anne Elementary School 5 to 12	PPS ZEA BLAKE - 8/23	\$71,572.30
47704	Virginia Beach City Public Schools	Park Structures	Shelton Park Elementary School 5 to 12	PPS ZEA BLAKE - 9/6	\$73,265.18
47706	Virginia Beach City Public Schools	Park Structures	Centerville Elementary School 5 to 12	PPS ZEA BLAKE - 7/26	\$74,733.45
47709	Virginia Beach City Public Schools	Park Structures	Corporate Landing Elementary School 5 to 12	PPS ZEA BLAKE - 8/9	\$73,719.78
47989	City of Virginia Beach	Park Structures	Plaza Northgate		\$139,592.41
48001	City of Virginia Beach	Park Structures	PRELIMINARY NEWLIGHT	APS PPS SWS ULT ZEA BLAKE - 1/6/20	\$122,677.21
48006	City of Virginia Beach	National Recreation Systems	Newlight	NRS SWS USH BLAKE - 1/6/20	\$60,230.58
48028	The Dittmar Company	Duraplay	Courtland Towers 100% PIP		\$96,815.66
48327	City of Chesapeake Parks & Recreation	Park Structures	Elizabeth River Park		\$99,229.22
48342	City of Chesapeake Parks & Recreation	Action Play Systems	Sparrow Road	APS PPS ZEA BLAKE -11/27	\$85,621.05
48343	City of Chesapeake Parks & Recreation	Action Play Systems	Camelot	APS PPS ZEA BLAKE - 12/9	\$125,366.41
48362	City of Virginia Beach	Park Structures	4th Precint	APS PPS SWS ULT ZEA BLAKE - 10/15	\$117,885.45
48781	City of Virginia Beach	Installer	St. Matthews	APS PPS ULT ZEA BLAKE - 11/23	\$221,184.36
48855	City of Virginia Beach	Installer	Scarborough Square	PPS ULT ZEA BLAKE - 12/21	\$115,561.91
48867	City of Virginia Beach	Installer	New Castle	APS PPS ZEA BLAKE - 9/15	\$95,952.33
48945	City of Virginia Beach	Structural Wood Systems	Pine Ridge Park Shelter Improvements	SWS ULT BLAKE - 1/17/20	\$57,725.50
49030	City of Virginia Beach	Structural Wood Systems	Pine Meadows Park	SWS ULT BLAKE - 1/27/20	\$53,876.50
49377	CNIC Facilities and Acquisitions	BLISS PRODUCTS	JEB Little Creek - Option 2 Free Standing Net and Logo	APS ARS BPS DRP OTS PPS BLAKE - 11/25	\$248,843.00
49622	City of Virginia Beach	Installer	Little Neck Park	APS PPS ULT ZEA BLAKE - 10/12	\$72,971.36
50159	City of Chesapeake Parks & Recreation	Installer	Locks Park - Option 3	Remove Existing Equipment - Install New Equipment	\$80,352.91
50394	Virginia Beach City Public Schools	Park Structures	Windsor Wood Elementary School 5 to 12	PPS ZEA BLAKE - 4/17	\$75,506.27
50395	Virginia Beach City Public Schools	Park Structures	Redmill Elementary School 5 to 12	PPS ZEA BLAKE - 5/8	\$75,007.03
50397	Virginia Beach City Public Schools	Park Structures	Lynnhave Elementary School 5 to 12		\$64,209.39
50454	CNIC Facilities and Acquisitions	Installer	Final - New London with Earth Berm	APS BPS DRP JHP OTS PPS NEW ENGLAND REC - 9/15	\$383,760.00
52067	Crowder Construction Company	Park Structures	Crowder Woodstock Park - Complete Order 645-117853E	Bleachers? / ZEA price will go up / change order? BPS CFS DIS MCC NRS PPS more ...	\$442,478.52
52306	McKenzie Construction Corp	Installer	Combined JB Dey 2 to 5 and 5 to 12	need contract BPS PPS ZEA BLAKE	\$117,739.73
52318	City of Virginia Beach	BLISS PRODUCTS	Marshview	BPS CFS IDS PPS ULT ZEA BLAKE - November	\$272,273.17
52729	City of Virginia Beach	SurfaceMax	Kids Cove Surfacing Repair		\$202,693.50
52792	Crowder Construction Company	Shade Systems	Woodstock - Shade Sails	PART OF A LARGER PROJECT -SHIP ASAP	\$53,862.08
52806	Virginia Beach City Public Schools	Park Structures	Creeds Elementary		\$79,389.25
52868	CNIC Facilities and Acquisitions	Duraplay	Yorktown		\$192,500.00
53185	City of Chesapeake Parks & Recreation	Cedar Forest Shelters	Covered Bridge		\$83,540.50
53277	City of Chesapeake Parks & Recreation	BLISS PRODUCTS	Campround #2 Installation of Restroom	BPS SBI BLAKE - 3/2021	\$147,500.00
53278	City of Chesapeake Parks & Recreation	BLISS PRODUCTS	Campround #1 Installation of Restroom		\$147,500.00
53279	City of Chesapeake Parks & Recreation	BLISS PRODUCTS	South Terminal Installation of Restroom	BPS SBI BLAKE - 1/2021	\$133,340.00
53285	Lennar Entitlements Manager	Park Structures	Beech Creek - Option 1; 2 to 12	Mike Davis (443) 336-7769	\$74,559.53
54010	Virginia Beach City Public Schools	Park Structures	Copy of Birdneck Elementary School 5-12	PPS ZEA BLAKE	\$74,655.18
54158	City of Chesapeake Parks & Recreation	Park Structures	Progress Drive		\$84,065.65

Quote #	Customer Name	Primary Vendor	Project	Project Details (100 characters)	Grand Total
54159	City of Chesapeake Parks & Recreation	Park Structures	Rokeby		\$122,594.41
54322	Northgate Property Services	Park Structures	Waller TX		\$89,048.28
54539	City of Virginia Beach	Park Structures	Arrowhead Elementary School 5 to 12 and 2 to 5		\$136,008.82
54541	City of Virginia Beach	Park Structures	Glenwood Elementary School 5 to 12 and 2 to 5		\$134,179.96
55652	Northgate Property Services	Park Structures	Milford PA		\$70,796.59
55745	Northgate Property Services	Action Play Systems	Barryville NY		\$147,385.25
56575	City of Virginia Beach	Installer	Creeds/Wayside		\$87,134.08
56576	City of Virginia Beach	Installer	Stratford Chase	900 Minden Rd Virginia Beach, VA 23464	\$98,719.76
56580	City of Virginia Beach	Installer	Lamplight Park		\$94,437.63
56813	Gum Spring UMC	Zeager	5 to 12 Area		\$57,261.40
57160	Chesapeake Public Schools	Action Play Systems	Grassfield	GRASSFIELD ELEMENTARY SCHOOL 2248 Averill Drive Chesapeake, Virginia 23323	\$193,503.52
57161	Chesapeake Public Schools	BLISS PRODUCTS	Western Branch Primary	Western Branch Primary School 4122 Terry Drive Chesapeake, Virginia 23321	\$97,996.48
57199	City of Virginia Beach	Installer	Great Neck Park Shelter Replacement	ship to site - blake to install	\$258,503.32
57222	Korean Central Presbyterian Church	Elephant Play	2 to 5 Playground Area	Intend to Start Mar/Apr 2022 Mark Private Utilities Younger Handling Surfacing, Demo, Fencing, Ins more ...	\$466,054.57
57405	City of Virginia Beach	Installer	Dunbarton Park	4468 Paddock Ln Virginia Beach, VA 23464	\$106,292.97
57698	Virginia Beach City Public Schools	Park Structures	Brookwood Elementary School 2 to 5 and 5 to 12	Brookwood Elementary School 601 S Lynnhaven Rd Virginia Beach, VA 23452	\$88,877.52
57699	Virginia Beach City Public Schools	Park Structures	Malibu Elementary School 2 to 5 and 5 to 12	3632 Edinburgh Dr Virginia Beach, VA 23452	\$104,441.81
57700	Virginia Beach City Public Schools	Park Structures	Holland Malibu Elementary School 2 to 5 and 5 to 12		\$101,074.78
57703	City of Virginia Beach	Installer	Bentley Gate		\$50,773.40
57704	City of Virginia Beach	Installer	Thalia Park	416 Thalia Rd Virginia Beach, VA 23452	\$122,403.76
58711	Community Housing Partners Coporate Office	JAYPRO	Friendship Village	Community Housing Partners Coporate Office 1235 Friendship Square Virginia Beach, Virginia 23451	\$138,257.63
59725	Northgate Property Services	Action Play Systems	Cranberry Acres - Separate Areas Turn Key Installation		\$261,252.47
59734	CNIC Facilities and Acquisitions	Action Play Systems	Whiting Field		\$135,000.00
59762	Roanoke Redevelopment & Housing Authority	Park Structures	Indian Rock Village		\$93,000.00
60232	Capitol Construction LLC	Park Structures	Sugar Hill Drive	1) Younger to Install 2) Ship to Site for Now 3) SHIP date may change next week -written 05/11/202 more ...	\$94,258.30
60241	City of Chesapeake Parks & Recreation	Park Structures	Truitt Intermediate		\$117,984.07
60619	Appletree Early Learning Public Charter School	Installer	Appletree Classroom with PIP		\$162,987.14
61556	City of Virginia Beach	Installer	Sand Volley Ball Courts		\$240,442.50
TOT					\$12,743,538.72

Gregg Bliss

President

6831 S. Sweetwater Rd,
Lithia Spring, GA 30122

800-248-2547

gregg@blissproducts.com

OVERVIEW

Over 30+ years in the recreation industry developing relationships with vendors, customers and staff to provide the highest level of service and best long-term solutions.

EDUCATION

Tarleton State – Bachelor of
Science (May 1989)

Major: Industry Technology
Minor: General Business
Summa Cum Laude
Alpha Chi

Weatherford College –
Associate Degree (May 1987)

KEY SKILLS

Marketing
Project Management
Executive Oversight
Team Building
Forecasting
Revenue Generation
Relationship Building

EXPERIENCE

2000-2020
President • Bliss Products & Services, Inc.

1989 - 2000
Sales Associate • Bliss Products & Services, Inc.

Expanded Business Territory to Twelve States. More than Doubled Sales Associates and Installation Crews. Negotiate to Increase Product Offerings and Vendor Relationships. Tripled Sales Volume since 2000.

PROFESSIONAL CERTIFICATIONS

Qualifying Agent for Contractor's Licenses in:
GA, MS, AL, NC, TN, LA, VA, SC

CPSI Certification # 12709-0221 Exp Feb 2021

Play & Park Structures, Big Toys- Certified Installer – Bliss Products & Services, Inc.

LEADERSHIP

Continual Education in Leadership Skills with On and Off Site Workshops and Teambuilding Courses
Manage 20+ Employees

REFERENCES

Personal and Professional References Available Upon Request

Kelly Robinson

Sales Associate

6831 S. Sweetwater Rd,
Lithia Spring, GA 30122

757-305-6284

kelly@blissproducts.com

OVERVIEW

Over twenty years in the recreation industry. Multiple awards for Sales Representative of the Year and 2M+ Club. Increased repeat/referral business within territory from 8% to over 80%.

EDUCATION

University of Tennessee – 1983
– 1986
Tidewater Community College –
2018-2019
Various Professional Courses

EXPERIENCE

2012 - Present
Sales Associate • Bliss Products & Services, Inc.

2010-2012
Project Manager – Atlantic Marine Construction Company

1998 – 2010 (Various Lengths of Service and Various Positions)
Sales Associate – Southern Playground

Managed Playground Installations for All CDC Centers for SATOC, MATOC and NAFI Contracts awarded to Atlantic Marine Construction. Increased Sales in VA to over 4M Annually under Bliss Products & Services, Inc.

KEY SKILLS

Customer Service
Playground Design
Contract Management and Oversight
Revenue Retention
Relationship Building

PROFESSIONAL LICENSE

CPSI Certified Since 2002
Certified Trainer for Playcore Development Series

SALES ACHIEVEMENTS

2019 - BPS- 3M Dollar Club; Salesperson of the Year - PPS
2018 – BPS – 3M Dollar Club
2018 – PPS "Wonder Woman" Award - Complete with Costume
2017 - Award of Excellence - Largest Sales Volume by a Sales Representative – PPS; BPS 2M Dollar Club
2016 - 3M Dollar Club - Bliss Products & Services Inc
2015 - Ultra Site Partner of the Year; BPS 3M Dollar Club

REFERENCES

Personal and Professional References Available Upon Request

Eric Persyns

Construction Manager

6831 S. Sweetwater Rd,
Lithia Spring, GA 30122

800-248-2547

eric@blissproducts.com

OVERVIEW

Almost twenty years in the recreation installation industry. Multiple positions from on-site installer to construction manager and corporate owner. Proven track record of on-site problem resolution and successful installation management. Best described as "Installation Fixer"

EDUCATION

US Army – 1998 – 2002
Medically Retired

EXPERIENCE

2020 - Present
Project Manager • Bliss Products & Services, Inc.

2007 - 2018
Owner – Fun Builders, Inc.

2004 - 2007
Construction Manager – American Park & Play

2002 – 2004
Owner – Play It Safe

1998 – 2002
US Army

KEY SKILLS

Installation Oversight
Construction Management
Subcontractor Coordination
Supervision
Problem Resolution
Permit Management

PROFESSIONAL LICENSE

GC License within the State of FL since 2007

LEADERSHIP

Managed Up to 100 Workers at a Time
Oversaw All Aspects of Construction Firm with Revenues from 5 to 30 M

REFERENCES

Personal and Professional References Available Upon Request

TAB 4 - REFERENCES

Dr. John Bailey, Director of School Plants, City of Chesapeake Public School System, john.bailey@cpschools.com – 757.547.0139 – Services Performed from 2015 through Present – Over 2M plus dollars for school playground renovations

Brian Phelps, Park Planner II – City of Virginia Beach, bkphelps@vbgov.com, 757.403.6460 – Retired December 2022. Services Performed for decades – Over 15M plus dollars in projects for schools and parks located throughout the City of Virginia Beach. Reference Matrix Attached

Brett Lee, DOD, Project Manager, Commander, Navy Installations Command, 901.846.4959 – Reference Matrix Attached

Kevin Kaul, City of Chesapeake, kkaul@cityofchesapeake.net, 757.510.6005 – Services Performed from 2015 through Present - Both Schools and Park Playgrounds – Over 5M plus dollars in revenue – Reference Matrix attachedd

PAST PERFORMANCE REFERENCE				
PLEASE RETURN WITHIN 5 DAYS OF RECEIPT TO: (Prime Firm)	FROM: (Agency/Division/Owner)	DATE:		
1. NAME AND ADDRESS OF REFERENCE : Alanna Young, CNIC Construction Contracting Officer				
2. CONTRACT NUMBER OR IDENTIFIER NAVMWR-20-C-0001	TYPE OF CONTRACT* Community Recreation Playground	AWARD DATE 29 May 2020	COMPLETION DATE 30 Dec 2020	VALUE \$ 383,700.00
*INCLUDE ALL THAT APPLY: FIRM-FIXED PRICE (FFP); FIXED-PRICE ECONOMIC PRICE ADJUSTMENT (FP-EPA) ; COST-PLUS-FIXED-FEE (CPFF), COMPLETION OR TERM; COST-PLUS-INCENTIVE-FEE (CPIF); COST-PLUS-AWARD -FEE (CPAF); COST; COST-SHARING; INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ); BASIC ORDERING AGREEMENT (BOA); FEDERAL SUPPLY SCHEDULE; REQUIREMENTS; LABOR HOUR; TIME AND MATERIALS (T&M); OTHER				
3. DESCRIPTION(S) OF SERVICES PROVIDED: This project was a community recreation playground at Naval Submarine Base New London. This project was a full design and construction.				
4. USING THE ATTACHED PERFORMANCE RATING GUIDELINES CHART, PLEASE RATE THE COMPANY LISTED IN 1 ABOVE ON THE CONTRACTS/PROJECTS LISTED IN 2 ABOVE. PROVIDE COMMENTS FOR RATINGS OF EXCELLENT, GOOD, FAIR, POOR OR UNSATISFACTORY				
4a. QUALITY OF SERVICES EXCELLENT (5) <input checked="" type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) <input type="checkbox"/> Comments:				
4b. TIMELINESS OF PERFORMANCE: EXCELLENT (5) <input checked="" type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) <input type="checkbox"/> Comments: Bliss Products were able to perform and complete the work before the established construction completed date .				

PAST PERFORMANCE REFERENCE														
PLEASE RETURN WITHIN 5 DAYS OF RECEIPT TO: (Prime Firm)	FROM: (Agency/Division/Owner)	DATE:												
1. NAME AND ADDRESS OF REFERENCE : Brett K. Lee, Navy Recreation Center, P.O. Box 147, Solomons, MD 20688														
2. CONTRACT NUMBER OR IDENTIFIER NAVMWR-19-C-0014	TYPE OF CONTRACT* Firm-Fixed Price	AWARD DATE 08/06/2019	COMPLETION DATE 01/15/2020	VALUE \$ 224971.00										
*INCLUDE ALL THAT APPLY: FIRM-FIXED PRICE (FFP); FIXED-PRICE ECONOMIC PRICE ADJUSTMENT (FP-EPA) ; COST-PLUS-FIXED-FEE (CPFF), COMPLETION OR TERM; COST-PLUS-INCENTIVE-FEE (CPIF); COST-PLUS-AWARD -FEE (CPAF); COST; COST-SHARING; INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ); BASIC ORDERING AGREEMENT (BOA); FEDERAL SUPPLY SCHEDULE; REQUIREMENTS; LABOR HOUR; TIME AND MATERIALS (T&M); OTHER														
3. DESCRIPTION(S) OF SERVICES PROVIDED: Project was for design-build repair by replacement of the existing Community Recreation Playground facility. This project includes all design, and construction necessary to construct a new musical themed playground for ages 2 to 5 and 5 to 12. The project includes all demolition, relocation, temporary construction and restoration necessary to produce a complete and useable playground. Work included sidewalk installation, grading, poured in place surface installation, and playground equipment installation.														
4. USING THE ATTACHED PERFORMANCE RATING GUIDELINES CHART, PLEASE RATE THE COMPANY LISTED IN 1 ABOVE ON THE CONTRACTS/PROJECTS LISTED IN 2 ABOVE. PROVIDE COMMENTS FOR RATINGS OF EXCELLENT, GOOD, FAIR, POOR OR UNSATISFACTORY														
4a. QUALITY OF SERVICES <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">EXCELLENT (5)</td> <td style="text-align: center;">GOOD (4)</td> <td style="text-align: center;">FAIR (3)</td> <td style="text-align: center;">POOR (2)</td> <td style="text-align: center;">UNSATISFACTORY (1)</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> Comments:					EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
4b. TIMELINESS OF PERFORMANCE: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">EXCELLENT (5)</td> <td style="text-align: center;">GOOD (4)</td> <td style="text-align: center;">FAIR (3)</td> <td style="text-align: center;">POOR (2)</td> <td style="text-align: center;">UNSATISFACTORY (1)</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> Comments:					EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

4c. COST CONTROL <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <p>Comments:</p>	
4d. BUSINESS RELATIONS: <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <p>Comments:</p>	
5. WAS/IS THE FIRM COMMITTED TO CUSTOMER SATISFACTION? <p style="text-align: center;"> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO </p> <p>Comments:</p>	
6. WOULD YOU SELECT THIS FIRM AGAIN AND WHY? PLEASE INCLUDE COMMENTS REGARDING ANY SPECIFIC KEY PERSONNEL ON YOUR CONTRACT(S) THAT ARE RELEVANT. ATTACH ADDITIONAL SHEET IF NECESSARY. <p>Yes, I would select this firm again. Working with Kelly Robinson was a very smooth process. The team from Bliss provided a quick construction process and delivered a product exactly as proposed. The project ran smoothly from start to finish with no issues.</p>	
7a. PRINTED/TYPED NAME AND SIGNATURE OF PREPARER OF SURVEY RESPONSE: LEE.BRETT.KENNETH.1243369440 <small>Digitally signed by LEE.BRETT.KENNETH.1243369440 Date: 2021.01.25 16:41:39 -05'00'</small>	7b. TELEPHONE NUMBER: 410-326-6830

PAST PERFORMANCE REFERENCE														
PLEASE RETURN WITHIN 5 DAYS OF RECEIPT TO: (Prime Firm)	FROM: (Agency/Division/Owner)	DATE:												
1. NAME AND ADDRESS OF REFERENCE : Brett K. Lee, Navy Recreation Center, P.O. Box 147, Solomons, MD 20688														
2. CONTRACT NUMBER OR IDENTIFIER NAVMWR-20-M-0041	TYPE OF CONTRACT* Firm-Fixed Price	AWARD DATE 08/21/2020	COMPLETION DATE 12/14/2020	VALUE \$ 192500										
*INCLUDE ALL THAT APPLY: FIRM-FIXED PRICE (FFP); FIXED-PRICE ECONOMIC PRICE ADJUSTMENT (FP-EPA) ; COST-PLUS-FIXED-FEE (CPFF), COMPLETION OR TERM, COST-PLUS-INCENTIVE-FEE (CPIF); COST-PLUS-AWARD -FEE (CPAF); COST; COST-SHARING; INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ); BASIC ORDERING AGREEMENT (BOA); FEDERAL SUPPLY SCHEDULE; REQUIREMENTS; LABOR HOUR; TIME AND MATERIALS (T&M); OTHER														
3. DESCRIPTION(S) OF SERVICES PROVIDED: Project was for design-build of a Community Recreation Playground replacing the existing facility. This project includes all design, and construction necessary to construct a new musical themed playground for 5 to 12. The project includes all demolition, relocation, temporary construction and restoration necessary to produce a complete and useable playground. Work included sidewalk installation, grading, poured in place surface installation, and playground equipment installation.														
4. USING THE ATTACHED PERFORMANCE RATING GUIDELINES CHART, PLEASE RATE THE COMPANY LISTED IN 1 ABOVE ON THE CONTRACTS/PROJECTS LISTED IN 2 ABOVE. PROVIDE COMMENTS FOR RATINGS OF EXCELLENT, GOOD, FAIR, POOR OR UNSATISFACTORY														
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EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
4b. TIMELINESS OF PERFORMANCE: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">EXCELLENT (5)</td> <td style="text-align: center;">GOOD (4)</td> <td style="text-align: center;">FAIR (3)</td> <td style="text-align: center;">POOR (2)</td> <td style="text-align: center;">UNSATISFACTORY (1)</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> Comments: There were no delays in this project despite several inclement weather days.					EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

4c. COST CONTROL <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <p>Comments:</p>	
4d. BUSINESS RELATIONS: <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <p>Comments:</p>	
5. WAS/IS THE FIRM COMMITTED TO CUSTOMER SATISFACTION? <p style="text-align: center;"> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO </p> <p>Comments:</p> <p>The contractor always provided timely and thorough responses to all inquiries</p>	
6. WOULD YOU SELECT THIS FIRM AGAIN AND WHY? PLEASE INCLUDE COMMENTS REGARDING ANY SPECIFIC KEY PERSONNEL ON YOUR CONTRACT(S) THAT ARE RELEVANT. ATTACH ADDITIONAL SHEET IF NECESSARY. <p>Yes, I would select this firm again. Working with Kelly Robinson was a very smooth process. She was a great communicator and always provided quick response and resolutions to an concerns that were brought up. The project ran smoothly from start to finish with no issues.</p>	
7a. PRINTED/TYPED NAME AND SIGNATURE OF PREPARER OF SURVEY RESPONSE: LEE.BRETT.KENNETH.1243369440 <small>Digitally signed by LEE.BRETT.KENNETH.1243369440 Date: 2021.01.25 16:31:05 -0500</small>	7b. TELEPHONE NUMBER: 410-326-6830

PAST PERFORMANCE REFERENCE														
PLEASE RETURN WITHIN 5 DAYS OF RECEIPT TO: (Prime Firm)	FROM: (Agency/Division/Owner)	DATE:												
1. NAME AND ADDRESS OF REFERENCE : Kevin Kaul, Parks Manager 1224 Progressive Dr Chesapeake, VA 23320														
2. CONTRACT NUMBER OR IDENTIFIER	TYPE OF CONTRACT*	AWARD DATE	COMPLETION DATE	VALUE										
	HGAC	OPEN		\$										
*INCLUDE ALL THAT APPLY: FIRM-FIXED PRICE (FFP); FIXED-PRICE ECONOMIC PRICE ADJUSTMENT (FP-EPA) ; COST-PLUS-FIXED-FEE (CPFF); COMPLETION OR TERM; COST-PLUS-INCENTIVE-FEE (CPIF); COST-PLUS-AWARD-FEE (CPAF); COST; COST-SHARING; INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ); BASIC ORDERING AGREEMENT (BOA); FEDERAL SUPPLY SCHEDULE; REQUIREMENTS; LABOR HOUR; TIME AND MATERIALS (T&M); OTHER														
3. DESCRIPTION(S) OF SERVICES PROVIDED: Installation of playgrounds, shelters and general park amenities.														
4. USING THE ATTACHED PERFORMANCE RATING GUIDELINES CHART, PLEASE RATE THE COMPANY LISTED IN 1 ABOVE ON THE CONTRACTS/PROJECTS LISTED IN 2 ABOVE. PROVIDE COMMENTS FOR RATINGS OF EXCELLENT, GOOD, FAIR, POOR OR UNSATISFACTORY														
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EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
4b. TIMELINESS OF PERFORMANCE: <table style="width: 100%; border: none;"> <tr> <td style="text-align: center;">EXCELLENT (5)</td> <td style="text-align: center;">GOOD (4)</td> <td style="text-align: center;">FAIR (3)</td> <td style="text-align: center;">POOR (2)</td> <td style="text-align: center;">UNSATISFACTORY (1)</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> </tr> </table> Comments: They have met all promised deadlines.					EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EXCELLENT (5)	GOOD (4)	FAIR (3)	POOR (2)	UNSATISFACTORY (1)										
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										

<p>4c. COST CONTROL</p> <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <hr/> <p>Comments: Provide cost solutions as needed for certain projects.</p>	
<p>4d. BUSINESS RELATIONS:</p> <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <hr/> <p>Comments: Easy to work with and attentive to our needs.</p>	
<p>5. WAS/IS THE FIRM COMMITTED TO CUSTOMER SATISFACTION?</p> <p style="text-align: center;"> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO </p> <hr/> <p>Comments: They have guaranteed every product.</p>	
<p>6. WOULD YOU SELECT THIS FIRM AGAIN AND WHY? PLEASE INCLUDE COMMENTS REGARDING ANY SPECIFIC KEY PERSONNEL ON YOUR CONTRACT(S) THAT ARE RELEVANT. ATTACH ADDITIONAL SHEET IF NECESSARY.</p> <p>I have worked with and met most of the upper management of Bliss Products & Services, Inc.. I'm happy to say they have been attentive to all of our needs. They have provided cost saving solutions and product offerings as were warranted by specific project parameters. They stand behind every product they have installed and have provided expedited resolutions should problems arise. I will continue to work with Kelly Robinson our Territory Manager and the entire team at Bliss Products & Services, Inc.</p>	
<p><small>7a. PRINTED/TYPED NAME AND SIGNATURE OF PREPARER OF SURVEY RESPONSE:</small></p> <p>Kevin Kaul, Parks Manager</p>	<p><small>7b. TELEPHONE NUMBER:</small></p> <p>757-510-6005</p>

PAST PERFORMANCE REFERENCE				
PLEASE RETURN WITHIN 5 DAYS OF RECEIPT TO: (Prime Firm)	FROM: (Agency/Division/Owner)	DATE:		
1. NAME AND ADDRESS OF REFERENCE : City of Virginia Beach Parks & Recreation Department 2154 Landstown Rd. Virginia Beach Va 23456				
2. CONTRACT NUMBER OR IDENTIFIER PRAP-16-0006	TYPE OF CONTRACT* Annual Service Contract	AWARD DATE 12-1-2015	COMPLETION DATE 11-30-2020	VALUE \$ 638,000 annually
*INCLUDE ALL THAT APPLY: FIRM-FIXED PRICE (FFP); FIXED-PRICE ECONOMIC PRICE ADJUSTMENT (FP-EPA) ; COST-PLUS-FIXED-FEE (CPFF), COMPLETION OR TERM, COST-PLUS-INCENTIVE-FEE (CPIF); COST-PLUS-AWARD -FEE (CPAF); COST; COST-SHARING; INDEFINITE DELIVERY/INDEFINITE QUANTITY (IDIQ); BASIC ORDERING AGREEMENT (BOA); FEDERAL SUPPLY SCHEDULE; REQUIREMENTS; LABOR HOUR; TIME AND MATERIALS (T&M); OTHER				
3. DESCRIPTION(S) OF SERVICES PROVIDED: Contractor will supply park/playground equipment and installation on an as needed bases for the City of Virginia Beach.				
4. USING THE ATTACHED PERFORMANCE RATING GUIDELINES CHART, PLEASE RATE THE COMPANY LISTED IN 1 ABOVE ON THE CONTRACTS/PROJECTS LISTED IN 2 ABOVE. PROVIDE COMMENTS FOR RATINGS OF EXCELLENT, GOOD, FAIR, POOR OR UNSATISFACTORY				
4a. QUALITY OF SERVICES _____ EXCELLENT (5) <input checked="" type="checkbox"/> _____ GOOD (4) <input type="checkbox"/> _____ FAIR (3) <input type="checkbox"/> _____ POOR (2) <input type="checkbox"/> _____ UNSATISFACTORY (1) <input type="checkbox"/>				
Comments: Contractor always performs the duties in a excellent manor				
4b. TIMELINESS OF PERFORMANCE: _____ EXCELLENT (5) <input checked="" type="checkbox"/> _____ GOOD (4) <input type="checkbox"/> _____ FAIR (3) <input type="checkbox"/> _____ POOR (2) <input type="checkbox"/> _____ UNSATISFACTORY (1) <input type="checkbox"/>				
Comments: Contractor always meets deadlines				

<p>4c. COST CONTROL</p> <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <p>Comments: Contractor's pricing is reasonable</p>	
<p>4d. BUSINESS RELATIONS:</p> <p style="text-align: center;"> <input checked="" type="checkbox"/> EXCELLENT (5) <input type="checkbox"/> GOOD (4) <input type="checkbox"/> FAIR (3) <input type="checkbox"/> POOR (2) <input type="checkbox"/> UNSATISFACTORY (1) </p> <p>Comments: Contractor's relationship with the city is excellent</p>	
<p>5. WAS/IS THE FIRM COMMITTED TO CUSTOMER SATISFACTION?</p> <p style="text-align: center;"> <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO </p> <p>Comments: Contractor meets and exceeds all expectations</p>	
<p>6. WOULD YOU SELECT THIS FIRM AGAIN AND WHY? PLEASE INCLUDE COMMENTS REGARDING ANY SPECIFIC KEY PERSONNEL ON YOUR CONTRACT(S) THAT ARE RELEVANT. ATTACH ADDITIONAL SHEET IF NECESSARY.</p> <p>Been working with this contractor for over five years. Excellent service and top of the line products</p>	
<p><small>7a. PRINTED/TYPED NAME AND SIGNATURE OF PREPARER OF SURVEY RESPONSE:</small></p> <p>Brian Phelps</p>	<p><small>7b. TELEPHONE NUMBER:</small></p> <p>757-385-1319</p>

TAB 5 – SAFETY AND SERVICE APPROACH

The safety requirements requested from the County of Henrico fall into four categories: personnel, manufacturing, design and support. Below you will find the highlighted information for each category. Recognizing that safety is a priority for all projects, Bliss Products has a site specific safety plan that is developed for each installation. A sample of this plan has been attached for review in Tab 10 – Appendices. This plan identifies the closest medical facility, provides up to date POC information for the project, also indicates what PPE is required and what to do should an accident occur. This plan is supplemental to our larger complete safety plan that is required to be reviewed and signed by our installers.

In addition the key personnel assigned to this project management, sales and installation foreman combined have almost 75 years experience in the recreation industry between the three of them. Both Bliss Products & Services Inc and Younger Services are Certified Play & Park Structures Installers, Class A Virginia Contractors, Bonded and Insured.



Standards & Safety



ISO 14001

We are proud to be ISO 14001 certified for our manufacturing facility in Fort Payne, Alabama, also referred to as the "Green Certification," ISO 14001 is an internationally recognized standard for environmental management, measurement, evaluation, and auditing. As an ISO 14001 certified company, Play & Park controls the environmental impact of our activities, products, and services by implementing an Environmental Management System (EMS) that meets international standards, but is specific to the play products being produced.



ISO 9001

An industry certification process issued by the International Organization for Standardization. It is used to measure manufacturing standards and to certify company compliance with quality control systems covering design, development, production, installation, inspection and testing.



ADA

Access Board (The United States Architectural and Transportation Barriers Compliance Board) has completed Accessibility Guidelines for Play Facilities as set forth in the Americans with Disabilities Act of 1990. The Final Report of the Regulatory Negotiation Committee is available via the internet.



IPEMA



In the interest of public playground safety, the International Playground Equipment Manufacturer's Association (IPEMA) provides a Third Party Certification Service whereby a designated independent laboratory, Detroit Testing Laboratory, Inc. (DTL), validates an equipment manufacturer's certification of conformance to ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, except sections 7.1.1, 10 & 12.6.1; to CAN/CSA Z614, Children's Playspaces and Equipment, except clauses 9.8, 10 & 11, or both. The use of corresponding logo in Play & Park Structures catalog signifies that Play & Park Structures has received written validation from the independent laboratory that the product(s) associated with the use of the logo conforms to the requirements of the Indicated standard. Check the IPEMA website, www.ipema.org, to confirm product validation.



ASTM



ASTM International is an independent and world renowned developer of technical standards utilized in testing a multitude of products, ASTM's F15.29 committee met regularly for over a decade in the continual development of the F1487 Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. The original standard, F1487-93 was published in 1993 and subsequently replaced by the current version F1487-07a, published in May 2007.



CPSC

The Consumer Product Safety Commission (CPSC) is an independent agency within the United States Federal Government with the authority to inform the public of current product safety performance information and recommended practices. The CPSC first published their guidelines for public playgrounds in 1981 and have updated their publication several times since then. The current CPSC Handbook for Public Playground Safety, publication #325, is an excellent guide for owners and operators of public play environments.



DESIGN

As your design consultant it is important to Bliss Products that the area takes into consideration all aspects of safety. As shown in the supporting designs for Sample 1 and Sample 2 the top view drawings that are provided clearly indicate the appropriate use zones and provide a quick visual to our customer that the zones are free clear and not overlapping. Creating a design with compliant equipment, adequate use zones, appropriate surfacing is a second nature to the design staff at Bliss Products. With CPSI Certifications, over thirty years in the industry, continual education on the design trends, standards and job completion reviews, our staff is well versed in playground safety.

What is unique is that Bliss Products goes above and beyond to look at other factors that can affect the safety of an area. Some of those unique perspectives are listed below:

- 1) Height – One of the current trends in playground design is towers. These towers are tall and aesthetically game changing in the playground environment. Bliss Products, however, would be hesitant to place one in a school setting. Children love the sense of height and it certainly can create a magical experience. Children also love to climb the outside of playgrounds. In a school, BPS does not recommend equipment with a fall height over 8'. The difference is that in a park the majority of children are accompanied by an adult or caregiver. For every twenty children there are on average 10+ adults in a supervisory position. In that situation, it is easier to keep an eye on the children and ensure they are using the equipment properly. Schools often require a teacher/educator to watch twenty-five children at a time. These individuals physically are not able to watch every child at every moment. Couple the intermittent supervision capabilities with children who have been sedentary for hours prior to engaging with the equipment and the stage has been set for children to use the equipment for reasons other than originally intended. Bliss Products prefers to work with the school to identify equipment that is as engaging, still aesthetically pleasing and most of all provides an extra layer of caution for the children.
- 2) Pathways – Through experience your design consultant can help the County identify other areas that should be avoided. Slide bedways existing into the path of swing travel is an area that is technically compliant if the use zones are met but not the most logical layout. The ADA entrance on the opposing side of the playground from the transfer station and music equipment placed beside the quiet sensory area are two more examples of proper planning.
- 3) Environmental Concerns – Is the area close to a retention pond? Which direction does the sun rise and set? What is the best direction to orient the slides? Are there tree limbs that hang down over the area? Are plants in and near the playground non-toxic? Is there an active roadway close to the perimeter? Is there adequate area for free play outside of the defined use zone? Does the area have proper drainage? Are there mechanical systems close by? All of these questions should impact design choices and equipment layout. Ensuring that the equipment selected meets ASTM, CPSC and is IPEMA certified is almost certain by default, taking the time to dig deeper into the environment and potential hazards not located within the playground borders, differentiates BPS products from the average playground representative.

SUPPORT

The equipment is in the ground, now what? Once the area has been inspected and the customer takes ownership how does the County ensure that the area remains as safe as possible for the children? BPS is here to help. Your representative Kelly Robinson is a certified trainer for Play & Park Structures Maintenance course, CPSI certified and committed to on-going safety. The following are some of the value add services that are offered at no additional cost to the County of Henrico.

1. Safety Maintenance In Person Training – Bliss wants to help you maintain your areas. In addition to our maintenance guide that is provide with each project outlining a maintenance schedule, record-keeping and inspection frequencies, BPS will provide your staff an opportunity for on-site in-person training.
2. Inspection Kits – Play & Park Structures offers the metal gauge and inspection kit that is recommended at the CPSI training sessions. The first five purchase orders under this contract will receive an inspection kit at no additional cost to the county. This is a value of over \$4,000.00 – These kits will help your staff to inspect the playgrounds properly and will last for years to come.
3. Bi-Annual Inspections for the first three years. Throughout the course of the first three years the playgrounds are installed, your representative will conduct cursory inspections to ensure that the equipment is performing as expected and to help identify any areas of concern.

Replacement Parts

1. Replacement Parts will be available for the fifteen year period as requested in the RFP documents. If the original part is discontinued for any reason a suitable and equitable substitution will be provided to the County.
2. Replacement Parts typically ship within seventy-two hours to twenty-one days depending upon the nature of the part. Readily available on-shelf items will ship by the end of the week in most instances. Rotomold plastics, custom panels, decks etc will be moved forward into product as quickly as possible to help prevent any down time.
3. Pipe Walls – Upon award BPS will work with the County to ship two additional pipe walls of a neutral color. These parts can be stored at the County's facility and can easily be attached to an existing structure to secure the area while awaiting a replacement part. While not all parts can be addressed this way, it is another example of how forward thinking can help to maintain the safety of all playgrounds.

TAB 6 – PLAYGROUND EQUIPMENT MATERIALS AND COMPONENTS

COLOR SELECTIONS AND EQUIPMENT VARIETY

The color selections are included for your use and selection.

Supermax Specifications for the Sample 1 proposal can be found in the Appendix Tab. Please note each individually designed area will have its own unique specifications that represent the products selected as part of the design.

LEAD TIME

Play and Park Structures current lead time is 8 weeks ARO. There are over sixty other manufacturers included in our response. The lengthiest lead time currently is for recycled plastic materials at 20 weeks ARO. In addition, some of the net products have a lead time in excess of 16 weeks. Custom products and some special fabrications will be addressed on an individual basis.

LIFE EXPECTANCY

The life expectancy of playground equipment is demonstrated in the length of the warranty. Typically, equipment is replaced within a ten to fifteen year cycle, not necessarily for safety reasons but for the customer's desire to freshen and re-do the areas.

Since there is such a diverse offering of products under this contract surfacing, bleachers, dog park equipment etc each have their own life expectancy. For example, Engineered Wood Fiber should be replenished at least twice a year and totally replaced every few years, poured-in-place surfacing is warrantied for five years but to ensure the highest level of success a re-top is recommended annually. Picnic Shelter life expectancy will depend upon the materials selected.

BPS will answer any and all questions with regards to individual products.

WARRANTY INFORMATION

The PPS warranty information is included herein. Warranty for all other manufacturers can be located on the respective website. BPS will, upon completion of a project and final acceptance of owner, issue of letter of completion outlining the warranty start date. In addition, BPS offers a one-year installation warranty.

Warranty related calls will be answered within 24 hours; however, email is the preferred method of communication. No matter which way notification occurs, an initial response to the customer will occur within that 24 hours. All warranty inquiries can be addressed to install@bilssproduct.com. This email is staffed and monitored by the entire installation team of Bliss Products and ensures a quick response to any concerns.

COLOR PALETTES



HARMONY

- Sky Blue Roto Plastic
- Blue Plastic Attachments
- Champagne Uprights
- Light Green Metal Accents
- Gray Decks
- Blue HDPE
- Deep Sea Shade



CARDINAL

- Burgundy Roto Plastic
- Beige Plastic Attachments
- Butterscotch Uprights
- Butterscotch Metal Accents
- Gray Decks
- Blue HDPE
- Deep Sea Shade



FOREST

- Beige Roto Plastic
- Sandstone Plastic Attachments
- Brown Uprights
- Light Green Metal Accents
- Brown Decks
- Burgundy HDPE
- Evergreen Shade



CLEAR SKY

- Blue Roto Plastic
- Gray Plastic Attachments
- Sky Blue Uprights
- Orange Metal Accents
- Gray Decks
- Gray HDPE
- Cloud Shade



LIME LIGHT

- Blue Roto Plastic
- Yellow Plastic Attachments
- Spring Green Uprights
- Spring Green Metal Accents
- Blue Decks
- Blue HDPE
- Tree Frog Green Shade



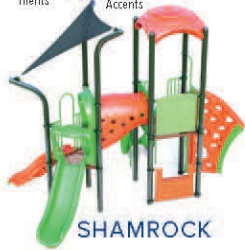
SPIRITED

- Red Roto Plastic
- Yellow Plastic Attachments
- Sky Blue Uprights
- Spring Green Metal Accents
- Red Decks
- Red HDPE
- Sky Shade



NATION'S BEST

- Red Roto Plastic
- Blue Plastic Attachments
- White Uprights
- Blue Metal Accents
- Blue Decks
- Red HDPE
- Deep Sea Shade



SHAMROCK

- Spring Green Roto Plastic
- Orange Plastic Attachments
- Starlight Black Uprights
- Spring Green Metal Accents
- Brown Decks
- Sky Blue HDPE
- Deep Sea Shade



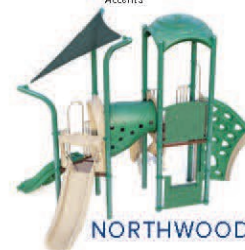
SPRING

- Yellow Roto Plastic
- Spring Green Plastic Attachments
- Metallic Uprights
- Orange Metal Accents
- Blue Decks
- Spring Green HDPE
- Sky Shade



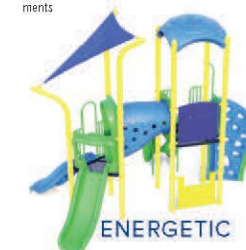
INSPIRE

- Spring Green Roto Plastic
- Spring Green Plastic Attachments
- Starlight Black Uprights
- Starlight Black Metal Accents
- Brown Decks
- Spring Green HDPE
- Tree Frog Green Shade



NORTHWOODS

- Beige Roto Plastic
- Green Plastic Attachments
- Green Uprights
- Beige Metal Accents
- Brown Decks
- Green HDPE
- Evergreen Shade



ENERGETIC

- Spring Green Roto Plastic
- Sky Blue Plastic Attachments
- Yellow Uprights
- Spring Green Metal Accents
- Blue Decks
- Yellow HDPE
- Sky Shade

Choose from one of our 24 most popular color palettes or create a custom palette of your own!



GINGERSNAP



BUBBLEGUM



PEACOCK



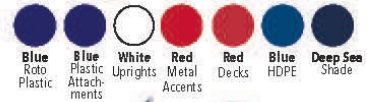
BASICS



REFRESH



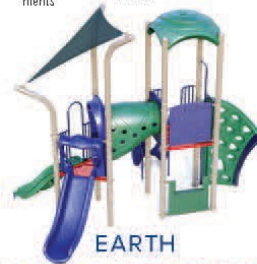
UNITED



ADVENTURE



WATERFALL



EARTH



GREENWAY



NATURAL



RIVER ROCK



Custom Color Options

HDPE Plastic

Available 1-color or 2-color for graphics



Rotomold Plastic Colors

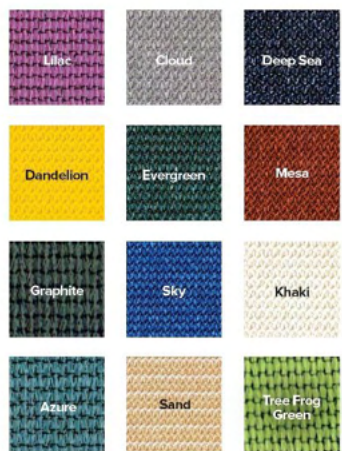
Available 1-color or 2-color for graphics



Raptor Cable Colors



Fabric Shade & Canopy



Nature Rotomold Plastic Colors

for Apex, MaxClimb, and Rock Wall Climber



Plastisol Deck & Site Colors

Thermoplastic deck coating is available. Ask your sales representative for more information.



Climber Cable Color



Metal Colors

Choose from 22 powder coat colors



OPTIONS
 PLAYANDPARK.COM | 800.727.1907

play & park structures® warranties

Limited Lifetime Warranty

Limited lifetime warranty on all Play & Park Structures posts, clamps, post caps, and hardware.

15 Year Limited Warranty

15-Year limited warranty on SuperMax, DuraMax, totnax, Skyline, Early Horizons, rotomolded plastic components, decks, pipes, rails, loops, and rungs.

10 Year Limited Warranty

10-Year limited warranty on shade products, fiberglass signage, pressure treated pine, and redwood products utilized in site furnishings.

5 Year Limited Warranty

5-Year limited warranty on HDPE panels, swing strap seats, tot seats, and nylon-covered cable net climbers and components.

3 Year Limited Warranty

3-Year limited warranty on spring bouncer C-type springs.

1 Year Limited Warranty

1-Year limited warranty on spring bouncer coil springs and all other Play & Park Structures products including moving parts.

Terms & Conditions

TO THE EXTENT PERMITTED BY LAW, THESE WARRANTIES ARE EXPRESSLY IN LIEU OF ANY OTHER IMPLIED OR EXPRESSED WARRANTIES OR REPRESENTATIONS BY ANY PERSON, INCLUDING AN IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS. Warranties do not cover damage caused by vandalism or abuse. Warranty claims must be filed within the applicable warranty period and accompanied by a copy of the original invoice or Play & Park Structures invoice number.

Play & Park Policies

Specifications: Specifications were current at the time of publication. Play & Park Structures has an ongoing policy of product improvement and therefore reserves the right to modify specifications or discontinue products without notice.

Terms of Sale: To governmental agencies and tax supported institutions, and those with approved credit, payment is due within 30 days from the date of invoice. A 1.5% per month finance charge will be imposed on all past due accounts. We also accept payment by VISA, MasterCard or American Express. All other orders will require a 50% deposit at the time of order entry. The balance will be due with a certified check upon receipt of shipment (C.O.D.).

Prices: Prices are F.O.B. factory and do not include freight charges. All prices listed were current at the time of publication and quoted in U.S. Funds. Due to the abnormally high cost of fuel and its impact on many of the materials used in our industry, quotations are valid for 30 days only and prices may be subject to material and fuel surcharges at the time of shipment. Prices are subject to change without notice. Current prices will apply at the time of shipment.

Freight charges: Freight charges are determined and collected by the carrier unless Play & Park Structures is requested and agrees to prepay and add these costs to the invoice.

Taxes: If applicable, taxes will be added to the invoice except when a tax-exempt certificate is provided with the purchase order at the time of order entry.

Minimum Order: Our minimum order is US \$50.00.

Order Cancellation: Once accepted, orders can be canceled only with the consent of Play & Park Structures, and on terms which will indemnify Play & Park Structures against loss. Canceled orders will be subject to a restocking fee. Equipment "built-to-order" is non-cancelable.

Domestic Shipments: Unless specifically given routing instructions on the purchase order, shipment will be made via the carrier we consider to be the most economical and practical in reaching the final destination. All domestic shipments are governed by ICC Regulations.

Delays in Transit: Play & Park Structures is not responsible for delays in transit and such delays shall not alter our invoicing terms. If your order does not reach you within a reasonable time after being advised that shipment went forward from our plant, Play & Park Structures will assist in the tracking process.

Loss or Damage in Transit: Play & Park Structures is not responsible for loss or damage in transit. When we release the material to the carrier, a bill of lading is signed which states that the shipment was received from us complete and in good condition. A copy of this bill of lading is forwarded to you with the shipment and should be checked carefully with the materials you received. Any shortage, discrepancy or damage must be noted on the delivery receipt and signed by the carriers' representative. Failure to note acceptations on the delivery receipt may impair your right to recovery from the carrier.

Weights: All published weights are estimated and include appropriate packing materials. Actual weights may vary slightly.

Pricing valid on orders received prior to November 30, 2020; orders must be shipped within 30 days.

*For the purpose of this warranty, lifetime encompasses no specific term of years, but rather that Seller warrants to its original customer for as long as the original customer owns the Product and uses the Product for its intended purpose that the Product and all parts will be free from defects in material and manufacturing workmanship.

PARTNERSHIP STANDARDS & ORGANIZATIONS

CPSC

The Consumer Product Safety Commission is an independent agency within the United States Federal Government with the authority to inform the public of current product safety performance information and recommended practices. The CPSC first published their guidelines for public playgrounds in 1981 and have updated their publication several times since then. The current CPSC Handbook for Public Playground Safety, publication #325, is an excellent guide for owners and operators of public play environments.

U.S. Consumer Product Safety Commission
Washington, DC 20207
Website: www.cpsc.gov
E-mail: info@cpsc.gov

Flo-Coat® Galvanized Steel Tubing

Galvanizing provides electrochemical protection to steel, in addition to forming a protective barrier. Allied's unique triple layer Flo-Coat galvanizing process goes even a step further by adding a conversion coating to passivate the zinc, and a clear polymer topcoat that reduces the general corrosion rate of the zinc. This synergy between the coatings allows the zinc to be more effective in protecting uncoated edges.



ISO 14001

We are proud to be ISO14001 certified for our manufacturing facility in Fort Payne, Alabama. Also referred to as the "Green Certification," ISO14001 is an internationally recognized standard for environmental management, measurement, evaluation and auditing. As an ISO14001 certified company, Play & Park controls the environmental impact of our activities, products, and services by implementing an Environmental Management System (EMS) that meets international standards, but is specific to the play products being produced.

ISO 9001

An industry certification process issued by the International Organization for Standardization. It is used to measure manufacturing standards and to certify company compliance with quality control systems covering design, development, production, installation, inspection and testing.

DOJ 2010 Standard for Accessible Design

Access Board (The United States Architectural and Transportation Barriers Compliance Board) has completed Accessibility Guidelines for Play Facilities as set forth in the Americans with Disabilities Act of 1990. The Final rules, fact sheets and analysis are all available at the Department of Justice.

Access Board
1331 F Street, NW, Washington, DC 20004-1111

Website: www.access-board.gov
E-mail: ta@access-board.gov

US Department of Justice:
www.ada.gov

ASTM International

ASTM International is an independent and world renowned developer of technical standards utilized in testing a multitude of products. ASTM's F15.29 committee met regularly for over a decade in the continual development of the F1487 Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use. Throughout this catalog we state ASTM Use Zones in dimensional form per the ASTM F1487 Standard Consumer Safety Performance Specifications for Playground Equipment for Public Use, which are minimum dimensions.

Consideration should be given to the number of users and their circulation patterns.

ASTM International
100 Barr Harbor Drive, PO Box C700
West Conshohocken, PA 19428-2959

Website: www.astm.org
E-mail: service@astm.org

IPEMA

In the interest of public playground safety, the International Playground Equipment Manufacturer's Association (IPEMA) provides a Third Party Certification Service whereby a designated independent laboratory, TÜV America, Inc., validates an equipment manufacturer's certification of conformance to ASTM F1487, Standard Consumer Safety Performance Specification for Playground Equipment for Public Use, except sections 7.1.1, 10 & 12.6.1; to CAN/CSA Z614, Children's Playspaces and Equipment, except clauses 9.8, 10 & 11, or both. The use of corresponding logo in Play & Park Structures' catalog signifies that Play & Park Structures has received written validation from the independent laboratory that the product(s) associated with the use of the logo conforms to the requirements of the indicated standard. Check the IPEMA website, www.ipema.org, to confirm product validation.

IPEMA

4305 N. 6th Street, Suite A, Harrisburg, PA 17110

Website: www.ipema.org
E-mail: certification@ipema.org

CSA

A large portion of Play & Park Structures equipment meets CSA standards, but please request structures, components, or freestanding items that specifically meet that need if required.

Services

Flexible Financing Program

Through a strategic alliance with Navitas Corporation®, Play & Park is able to provide flexible financing for customers who require funding assistance on their next playground project. Complete our financing request form online at playandpark.com, and bring play opportunities to your school or community more quickly.

National Demonstration Site

Learn more about becoming a national demonstration site for inclusive playgrounds, fitness focused play, a Nature Grounds® play space, or for physically active play. To learn more visit: playandpark.com/national-demonstration-site-program



544 Chestnut Street,
Chattanooga, TN 37402

TAB 7 – PRICING/COST PROPOSAL

RE: HENRICO RFP - SAMPLE 1

Description	Quantity	Unit	Unit Price	Extended Price
Consulting Services - Concept Planning, Equipment Layout and Customization	5	Hour	\$100.00	\$500.00
Equipment Package and Timbers - Provide Attachment H	1	Lump Sum	\$140,000.00	\$140,000.00
Freight	1	Lump Sum	\$12,438.00	\$12,438.00
OffSite Storage (Assume 30 Days) - Includes Delivery to Site	1	Lump Sum	\$2,100.00	\$2,100.00
Mobilization/Site Safety - Offload New Equipment, Set Up Safety Provisions	1	Lump Sum	\$1,800.00	\$1,800.00
Disassembly, Removal and Disposal - Borders Ramps, Curbs	0	Hour	Included in Line Item Below	\$0.00
Disassembly, Removal and Disposal - EWF (Engineered Wood Fiber)	180	Cubic Yard	\$75.00	\$13,500.00
Disassembly, Removal and Disposal - Existing Equipment Appurtenances	26	Hour	\$400.00	\$10,400.00
Furnish and Install New Package	130	Hour	\$400.00	\$52,000.00
Install New Borders and ADA Ramp	10	Hour	\$400.00	\$4,000.00
Furnish and Install New Safety Surfacing, EWF	180	Cubic Yard	\$42.00	\$7,560.00
Demobilization/Opening Play Area - Clean Up	5	Hour	\$400.00	\$2,000.00
Consulting Services - Final Inspection and/or Reinspection by NRPA-CPSI Certified Staff	4	Hour	\$250.00	\$1,000.00
Other				
Other				
Other				
Grand Total				\$247,298.00

Description	Quantity	Unit	Unit Price	Extended Price
Consulting Services - Concept Planning, Equipment Layout and Customization	5	Hour	\$100.00	\$500.00
Equipment Package and Timbers - Provide Attachment H	1	Lump Sum	\$142,000.00	\$142,000.00
Freight	1	Lump Sum	\$11,336.00	\$11,336.00
OffSite Storage (Assume 30 Days) - Includes Delivery to Site	1	Lump Sum	\$2,100.00	\$2,100.00
Mobilization/Site Safety - Offload New Equipment, Set Up Safety Provisions	1	Lump Sum	\$1,800.00	\$1,800.00
Disassembly, Removal and Disposal - Borders Ramps, Curbs	0	Hour	Included in Line Item Below	\$0.00
Disassembly, Removal and Disposal - EWF (Engineered Wood Fiber)	0	Cubic Yard	\$75.00	\$0.00
Disassembly, Removal and Disposal - Existing Equipment Appurtenances	0	Hour	\$400.00	\$0.00
Furnish and Install New Package	160	Hour	\$400.00	\$64,000.00
Install New Borders and ADA Ramp	18	Hour	\$400.00	\$7,200.00
Furnish and Install New Safety Surfacing, EWF	240	Cubic Yard	\$42.00	\$10,080.00
Demobilization/Opening Play Area - Clean Up	6	Hour	\$400.00	\$2,400.00
Consulting Services - Final Inspection and/or Reinspection by NRPA-CPSI Certified Staff	6	Hour	\$250.00	\$1,500.00
Other				
Other				
Other				
Grand Total				\$242,916.00



RE: HENRICO RFP – ATTCHMENT H – AVAILABLE VENDORS UNDER THIS CONTRACT

	Vendors	Catalog	Web Site	Disc
1	Action Play	FY2022	http://www.actionplaysystems.com/	5%
2	Alterations & More	FY2022	https://alterationsmore.com/	5%
3	Athletic Connection	FY2022	www.athleticconnection.com	5%
4	Bark Park	FY2022	https://www.ultra-site.com/dog-parks	8%
5	Big Toys	FY2022	https://www.bigtoys.com/	5%
6	Burbank Netting	FY2022	www.burbankspornets.com	5%
7	Cedar Forest Products	FY2022	https://cedarforestproducts.com/	5%
8	CemRock	FY2022	www.cemrock.com	5%
9	Colorado Time Systems	FY2022	https://www.coloradotime.com/	5%
10	Compac Filtration	FY2022	https://com-pac.net/	5%
11	Dero	FY2022	https://www.dero.com/	5%
12	Doty & Sons Concrete	FY2022	https://dotyconcrete.com/	5%
13	Dura Play	FY2022	http://duraplay.com/	5%
14	Dynamo	FY2022	https://www.dynamoplaygrounds.com/	10%
15	Electro Mech Scoreboard	FY2022	http://www.electro-mech.com/	10%

16	Elephant Play	FY2022	http://elephantplay.com/en/company/	10%
17	Everlast Climbing	FY2022	https://everlastclimbing.com/	10%
18	Fibar	FY2022	https://www.fibar.com/	10%
19	First Coast Mulch	FY2022	www.firstcoastmulch.com	5%
20	Forestry Resources	FY2022	www.gomulch.com	5%
21	Forte	FY2022	www.forteproducts.com	5%
22	Free Note - Harmony Park	FY2022	https://freenotesharmoniypark.com/	5%
23	G & A Manufacturing, Inc.	FY2022	www.gamanufacturing.com	5%
24	Gared Sports	FY2022	https://www.garedsports.com/	10%
25	GT Grandstands	FY2022	https://www.gtgrandstands.com/	10%
26	Inovative Mulching	FY2022	http://www.innovativemulching.com/	10%
27	Jayhawk Plastics/FROG	FY2022	https://frogfurnishings.com/	10%
28	JayPro Sports	FY2022	https://jayprosports.com/	5%
29	Jensen Swings	FY2022	www.jensenswing.com	5%
30	Kay Park	FY2022	www.kaypark.com	5%
31	Kings River Casting	FY2022	www.kingsrivercasting.com	5%
32	Major Display Scoreboards	FY2022	www.majordisplay.com	5%
33	Most Dependable Fountains	FY2022	http://www.mostdependable.com/	5%
34	Murdock Fountains	FY2022	https://www.murdockmfg.com/	5%
35	National Recreation Systems	FY2022	https://www.bleachers.net/	5%
36	Newsome Fence	FY2022	www.newsomfence.com	5%
37	Outback Shelters	FY2022	No Web Available	5%
38	Play And Park Structures	FY2022	https://www.playandpark.com/	***
39	PlayGuard	FY2022	www.playguardsurfacing.com	5%
40	Playsafe Surfacing	FY2022	No Web Available	5%
41	Playsafer /Rubber Recycling	FY2022	https://rubbermulch.com/	5%
42	RCP Shelters	FY2022	www.rcpshelters.com	5%
43	Safety 1st Surfacing	FY2022	www.safetyfirstplayground.com	5%
44	Sand Lock Sandbox	FY2022	www.sandlock.com	5%
45	Sandee Sod, Inc. (services)	FY2022	No Web Available	per Job
46	Shade America	FY2022	http://www.shadeamerica.us/	10%
47	Shaw Industries	FY2022	www.shawfloors.com	5%
48	Spiral Court King	FY2022	www.spiralstairssofamerica.com	5%
49	Spohn Ranch/ Tru Ride	FY2022	www.spohnranch.com	5%
50	Sportsfield Specialties(ProMats)	FY2022	https://www.sportsfield.com/	5%
51	Sportsplay	FY2022	http://www.sportsplayinc.com/	5%
52	Stewart Tennis Courts	FY2022	www.stewarttennis.com	per Job
53	Structual Wood Systems	FY2022	www.structuralwood.com	5%
54	Superior Shade	FY2022	https://srpshade.com/	5%
55	Superior Shelters	FY2022	https://srpshelter.com/	5%
56	Tennis Unlimited	FY2022		per Job
57	Ultra - Action Fitness	FY2022	https://www.ultra-site.com/	5%
58	Ultra Play	FY2022	https://www.ultraplay.com/	5%
59	Ultra Site	FY2022	https://www.ultra-site.com/	5%
60	Waterworks International	FY2022	www.waterworksinternational.com	5%
61	Wausau International	FY2022	www.wausaumade.com	5%
62	Wood Mulch Products	FY2022	www.woodmulchproducts.com	5%
63	X-Grass	FY2022	https://www.xgrass.com/	5%
64	Zeager	FY2022	https://www.zeager.com/	5%
Standard Delivery Time		*Play & Park Structure, Big Toys, Ultra Site Standard, Bark Park -Avg 8-10 weeks ARO		

Design Services Per Hour	\$100 per hour to be waived if design is ordered		
Installation Charges Per Hour	\$400 Per Hour Includes One Foreman, Two Experienced Installers and Machinery - Does Not Include Materials		
Manufacturer			
Dealer	BPS is a Dealer for the Companies Listed Above		
Other			
***PPS is BPS main provider of play equipment, Structures Are Discounted 20-40%			
Qty of Playground Ordered Annually - 1 to 3			
20% Discount for PPS Structures			
Qty of Playground Ordered Annually - 3 to 5			
25% Discount for PPS Structures			
Qty of Playground Ordered Annually - 5 to 10			
30 - 40% Discount for Structure			

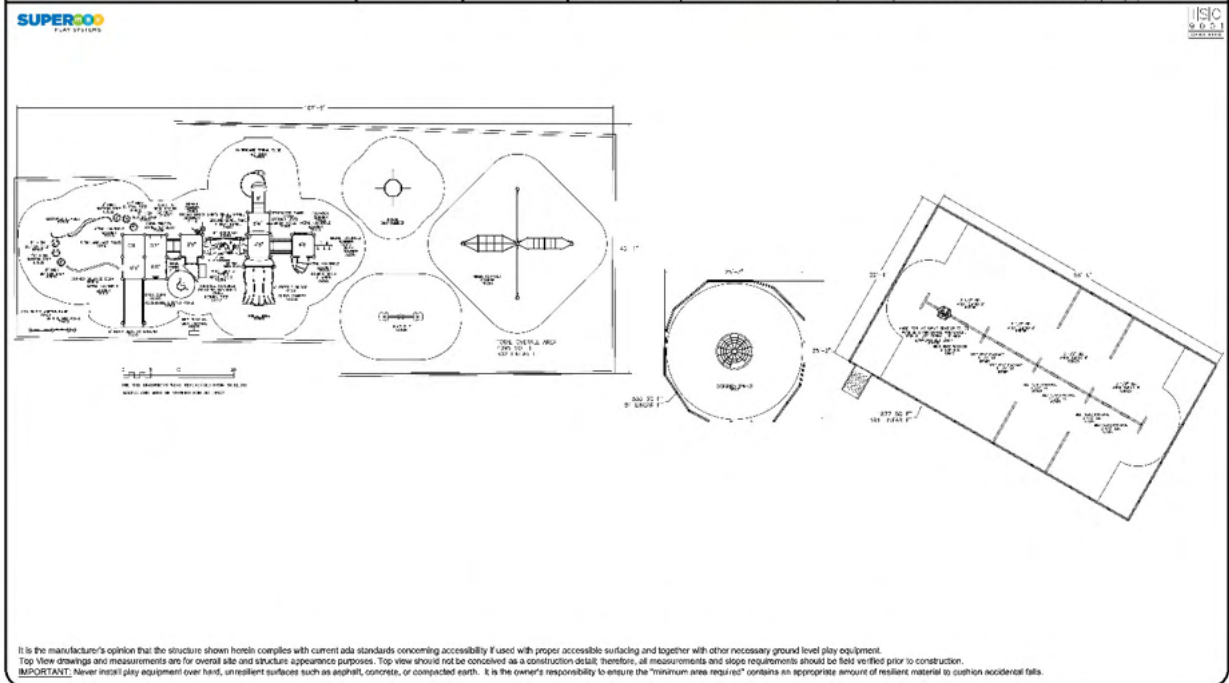
MATCHING TO EXISTING EQUIPMENT AT SPRINGFIELD ELEMENTARY SCHOOL – SAMPLE PROJECT 1 - ADDED IN ITS ENTIRETY WITHOUT CORRESPONDING NUMBERS

Henrico County 8600 Staples Mill Road Henrico VA 23273	This play equipment is recommended for children ages: 5-12 Minimum Area Required: Per Area	Scale: 5/32" = 1'-0" This drawing can be scaled only when in an 24" x 36" format	Drawn By: Tiffanie Brown Date: 12/30/22 Quote Number: 645-157137	 541 Chestnut Street Chattanooga, TN 37402 800-727-1907 www.playandpark.com		Total Play Components	36	User Capacity 95-100 Critical Fall Height 8'-0"
						Elevated Play Components	16	
Bliss Products and Services						Elevated Play Components Accessible by Ramp	6	Req. 4
						Elevated Components Accessible by Transfer	15	Req. 4
						Accessible Ground Level Components Shown	22	Req. 5
						Different Types of Ground Level Components	6	Req. 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.

Henrico County 8600 Staples Mill Road Henrico VA 23273	This play equipment is recommended for children ages: 5-12 Minimum Area Required: Per Area	Scale: 5/32" = 1'-0" This drawing can be scaled only when in an 24" x 36" format	Drawn By: Tiffanie Brown Date: 12/30/22 Quote Number: 645-157137	 541 Chestnut Street Chattanooga, TN 37402 800-727-1907 www.playandpark.com		Total Play Components	36	User Capacity 95-100 Critical Fall Height 8'-0"
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						Different Types of Ground Level Components	6	Req. 3



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HARMONY

HENRICO COUNTY MATCHING
HENRICO, VA

645-157137

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



544 CHESTNUT ST.
CHATTANOOGA, TN 37402
800.727.1907
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HARMONY

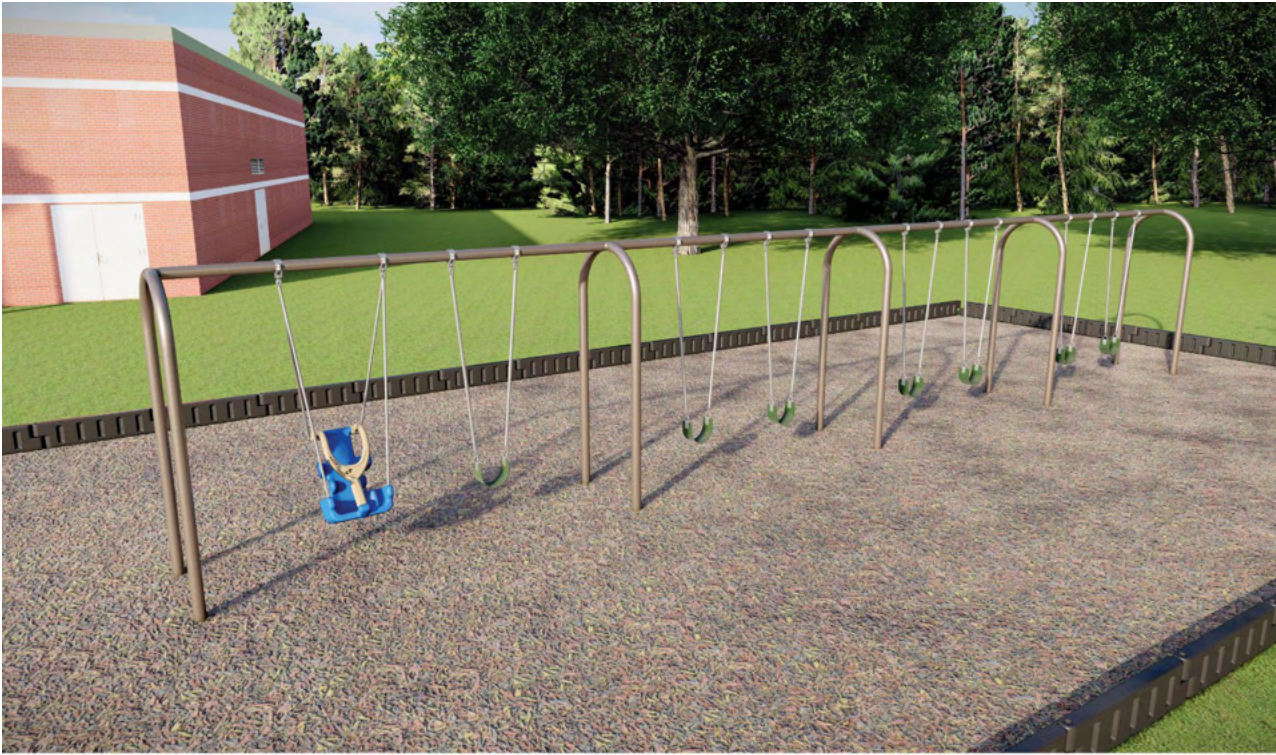
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CHATTANOOGA, TN 37405
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IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157137 Henrico County Matching

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
71558	Triple Slide	Supermax	Play & Park Structures
71006	Triangle Transfer Point W/Handhold (2'-8" Deck)	Supermax	Play & Park Structures
71436	Trestle Bridge - 4'	Supermax	Play & Park Structures
71019	Telescope	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
71000	Square Deck	Supermax	Play & Park Structures
60061	SMALL KICKPLATE (FOR DECKS SPACED 8" APART)	Supermax	Play & Park Structures
67508	Silo Climber	Parkplay	Play & Park Structures
71419	Sign Language Panel	Supermax	Play & Park Structures
71968	Shop Panel	Supermax	Play & Park Structures
71155	Ship's Wheels Panel	Supermax	Play & Park Structures
71798	Sensory Summit Arch Link 1 - Climber Only (2'8" Thru 6')	Supermax	Play & Park Structures
61117	Return Step	Supermax	Play & Park Structures
71015	Ramp Deck to Ground	Supermax	Play & Park Structures
71906	PARAGON CLIMBER 56"	Supermax	Play & Park Structures
71114	Offset Entry Archway	Supermax	Play & Park Structures
71013	Metal Barrier	Supermax	Play & Park Structures
67974	Max Twist Climber	Parkplay	Play & Park Structures
567915	Made For Me Swing Seat W/S.S. Chain (5-12)	Parkplay	Play & Park Structures
67915	Made For Me Swing Seat (5-12)	Parkplay	Play & Park Structures
65184	JUMP TO IT	Parkplay	Play & Park Structures
72000	Hover Climber 2'8"	Supermax	Play & Park Structures
71967	GROUND LEVEL TAKE A SEAT PANEL	Supermax	Play & Park Structures
71149	Flower Maze Panel	Supermax	Play & Park Structures
UDB260102	Eddie.02	Urban Design	Berliner Seilfabrik GmbH & Co.
71472	Deck To Deck Stairs 2' Rise	Supermax	Play & Park Structures
60645	Deck Curb	Supermax	Play & Park Structures
67643	Curved Balance Beam	Parkplay	Play & Park Structures
71396	Cabin Window Panel w/Seat	Supermax	Play & Park Structures
67832	Button Step	Parkplay	Play & Park Structures
67597	Belt Seat Package	Parkplay	Play & Park Structures
71400	ADA Sign & Mfg Panel	Supermax	Play & Park Structures



IPEMA INTERNATIONAL
PLAY EQUIPMENT
MANUFACTURERS
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IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157137 Henrico County Matching

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
71430	Accessible Ship's Wheels Panel	Supermax	Play & Park Structures
71502	Accessible Driving Panel	Supermax	Play & Park Structures
71393	5'-4" Hood Hurricane Rotomolded	Supermax	Play & Park Structures
72025	4'-8" & 5'-4" Double Bend Climber	Supermax	Play & Park Structures
68035	3.5" O.D. Arch Swing - Add-A-Bay	Parkplay	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



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

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157137 Henrico County Matching

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
71558	Triple Slide	Supermax	Play & Park Structures
71006	Triangle Transfer Point W/Handhold (2'-8" Deck)	Supermax	Play & Park Structures
71436	Trestle Bridge - 4'	Supermax	Play & Park Structures
71019	Telescope	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
71000	Square Deck	Supermax	Play & Park Structures
60061	SMALL KICKPLATE (FOR DECKS SPACED 8" APART)	Supermax	Play & Park Structures
67508	Silo Climber	Parkplay	Play & Park Structures
71419	Sign Language Panel	Supermax	Play & Park Structures
71968	Shop Panel	Supermax	Play & Park Structures
71155	Ship's Wheels Panel	Supermax	Play & Park Structures
71798	Sensory Summit Arch Link 1 - Climber Only (2'8" Thru 6')	Supermax	Play & Park Structures
61117	Return Step	Supermax	Play & Park Structures
71015	Ramp Deck to Ground	Supermax	Play & Park Structures
71906	PARAGON CLIMBER 56"	Supermax	Play & Park Structures
71114	Offset Entry Archway	Supermax	Play & Park Structures
71013	Metal Barrier	Supermax	Play & Park Structures
67974	Max Twist Climber	Parkplay	Play & Park Structures
65184	JUMP TO IT	Parkplay	Play & Park



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

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157137 Henrico County Matching

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
72000	Hover Climber 2'8"	Supermax	Play & Park Structures
71967	GROUND LEVEL TAKE A SEAT PANEL	Supermax	Play & Park Structures
71472	Deck To Deck Stairs 2' Rise	Supermax	Play & Park Structures
60645	Deck Curb	Supermax	Play & Park Structures
67832	Button Step	Parkplay	Play & Park Structures
72025	4'-8" & 5'-4" Double Bend Climber	Supermax	Play & Park Structures
68035	3.5" O.D. Arch Swing - Add-A-Bay	Parkplay	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



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

Date de Délivrance Initiale: janvier 4, 2023

Demandé par: Kelly Lindsay

Nom du parc: 645-157137 Henrico County Matching

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
71558	Triple Slide	Supermax	Play & Park Structures
71006	Triangle Transfer Point W/Handhold (2'-8" Deck)	Supermax	Play & Park Structures
71436	Trestle Bridge - 4'	Supermax	Play & Park Structures
71019	Telescope	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
71000	Square Deck	Supermax	Play & Park Structures
60061	SMALL KICKPLATE (FOR DECKS SPACED 8" APART)	Supermax	Play & Park Structures
67508	Silo Climber	Parkplay	Play & Park Structures
71419	Sign Language Panel	Supermax	Play & Park Structures
71968	Shop Panel	Supermax	Play & Park Structures
71155	Ship's Wheels Panel	Supermax	Play & Park Structures
71798	Sensory Summit Arch Link 1 - Climber Only (2'8" Thru 6')	Supermax	Play & Park Structures
61117	Return Step	Supermax	Play & Park Structures
71015	Ramp Deck to Ground	Supermax	Play & Park Structures
71906	PARAGON CLIMBER 56"	Supermax	Play & Park Structures
71114	Offset Entry Archway	Supermax	Play & Park Structures
71013	Metal Barrier	Supermax	Play & Park Structures
67974	Max Twist Climber	Parkplay	Play & Park Structures



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ASSOCIATION



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

Date de Délivrance Initiale: janvier 4, 2023

Demandé par: Kelly Lindsay

Nom du parc: 645-157137 Henrico County Matching

MODÈLE n°	NOM COMMERCIAL DU PRODUIT	LIGNE DE PRODUIT	MANUFACTURIER
65184	JUMP TO IT	Parkplay	Play & Park Structures
72000	Hover Climber 2'8"	Supermax	Play & Park Structures
71967	GROUND LEVEL TAKE A SEAT PANEL	Supermax	Play & Park Structures
71472	Deck To Deck Stairs 2' Rise	Supermax	Play & Park Structures
60645	Deck Curb	Supermax	Play & Park Structures
67832	Button Step	Parkplay	Play & Park Structures
72025	4'-8" & 5'-4" Double Bend Climber	Supermax	Play & Park Structures
68035	3.5" O.D. Arch Swing - Add-A-Bay	Parkplay	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



Bliss Products
6831 S. Sweetwater Rd
LithiaSprings, Georgia, 30122
Phone: 770.944.8290
Fax:
Email:
Contact: Kelly Robinson

Henrico County Matching

Henrico County Recreation and Parks
 Attn: John Cregar
 8600 Staples Mill Road
 Henrico, VA 23273
 Phone: 804-501-5660
 Cre057@henrico.us

Quote Number: 645-157137
 Quote Date: 12/30/2022

Stock ID	Description	Quantity	Weight	Unit Price	Amount
RDU	SUPERMAX STRUCTURE	1	6539.08	\$119,640.00	\$119,640.00
	71031 -- RING CLAMP ASSEMBLY	86			
	71013 -- METAL HANDHOLD BARRIER	5			
	71968 -- Shop Panel	1			
	61056 -- CURVY CANOPY	1			
	67974 -- MAX TWIST CLIMBER	1			
	67832 -- BUTTON STEP F/S	6			
	71967 -- Ground Level Take A Seat Panel	1			
	71155 -- SHIP'S WHEEL PANEL	1			
	71019 -- TELESCOPE PANEL	1			
	72016 -- Summit Climber 4' - 8"	1			
	71906 -- PARAGON CLIMBER 56"	1			
	71393 -- SPIRAL SLIDE W/HOOD 5'-4"	1			
	72025 -- 4'-8" & 5'-4" Double Bend Climber	1			
	71000 -- SQUARE DECK	8			
	71436 -- 4'TRESTLE BRIDGE	1			
	60061 -- SMALL KICKPLATE-8"SPACE	1			
	71800 -- ARCH LINK 3-SENSOR PKG	1			
	71558 -- TRIPLE SLIDE	1			
	71798 -- ARCH LINK 1 2'-8"/6'-0"	1			
	61117 -- RETURN STEP	1			
	71114 -- OFFSET ENTRY ARCHWAY	1			
	72000 -- HOVER CLIMBER 2'-8"	1			
	71006 -- TRANSFER W/HANDHOLD 2'-8"	1			
	71472 -- DECK TO DECK STAIR 2'-0"	1			
	71149 -- FLOWER MAZE PANEL	1			
	71502 -- ACCESSIBLE DRIVING PANEL	1			
	60645 -- DECK CURB	1			
	71396 -- CABIN WINDOW PANEL W/SEAT	1			
	67643 -- CURVED BALANCE BEAM F/S	1			
	71419 -- SIGN LANGUAGE PANEL	1			
	71015 -- RAMP DECK TO GROUND	1			
	60956 -- 5"OD ALUM UPR 9'W/CAP	5			
	60948 -- 5"OD ALUM UPR 11' W/CAP	7			
	60060 -- 5"OD ALUM UPR 12'W/CAP	2			
	60944 -- 5"OD ALUM UPR 15'W/O CAP	4			
	60949 -- 5"OD ALUM UPR 7' W/CAP	9			
RDU	SWINGS	1	1094	\$9,009.00	\$9,009.00
	67597 -- BELT SEAT 3 1/2"OD	7			
	67915 -- 3 1/2"MADE-FOR-ME SEAT GV	1			
	68035 -- 3.5"OD STD ARCH SWING AAB	3			
	67558 -- 3 1/2"OD ADA ARCH SWING	1			
RDU	FREESTANDING PANELS	1	149	\$4,670.00	\$4,670.00
	71430 -- ADA SHIPS WHEELS PANEL	1			
	71403 -- SPIN & WIN PANEL	1			
	60949 -- 5"OD ALUM UPR 7' W/CAP	2			
	60102 -- 5"OD AL UPR W/CAP 6'LG	1			

**FOR INFORMATIONAL
 PURPOSES ONLY -
 BID PRICE WAS
 DISCOUNTED PER
 SECTION H**

65184	JUMP 2 IT	1	301	\$4,439.00	\$4,439.00
YP315	NINJA COMPACT COURSE	1	0	\$25,002.00	\$25,002.00
YP321	EVERGREEN SPINNER	1	0	\$13,227.00	\$13,227.00
67508	SILO CLIMBER	1	209	\$2,965.00	\$2,965.00
65192	NDS PLAY ON SIGN PKG	1	62	\$0.00	\$0.00

Total Weight: 8354.08 SubTotal: \$178,952.00
 Freight: \$12,438.62
Total Amount: \$191,390.62

TIMBERS NOT INCLUDED.

THIS QUOTATION IS SUBJECT TO POLICIES IN THE CURRENT PLAY & PARK STRUCTURES CATALOG AND THE FOLLOWING TERMS AND CONDITIONS. OUR QUOTATION IS BASED ON SHIPMENT OF ALL ITEMS AT ONE TIME TO A SINGLE DESTINATION, UNLESS NOTED, AND CHANGES ARE SUBJECT TO PRICE ADJUSTMENT. PURCHASES IN EXCESS OF \$1,000.00 TO BE SUPPORTED BY YOUR WRITTEN PURCHASE ORDER MADE OUT TO PLAY & PARK STRUCTURES, C/O Bliss Products.

Pricing: f.o.b. factory, firm for 30 days from date of quotation.

Shipment: order shall ship within 45-60 days after Play & Park Structures' receipt and acceptance of your purchase order, color selections, approved submittals, and receipt of deposit, if required.

Freight charges: Prepaid & added

Installation: A certified Play & Park Structures Installer is recommended for play equipment installation. Customer shall be responsible for scheduling coordination and site preparation. Site should be level and permit installation equipment access. Purchaser shall be responsible for unknown conditions such as buried utilities, tree stumps, bedrock or any concealed materials or conditions that may result in additional labor or material costs.

Submittals: our design proposal reflects the spirit and intent of the project plans and specifications. While some variations may exist between our quotation and the project design, the differences do not materially affect the intended use. Play & Park Structures designs and specifications are unique and not intended to be identical in all respects to other manufacturers. We shall submit for review and approval by the owner's representative detailed drawings depicting the equipment to be furnished accompanied by specifications describing materials. Once approved, these drawings and specifications shall constitute the final documents for the project and shall take precedence over all other requirements.

Exclusions: unless specifically included, this quotation excludes all site work and landscaping; removal of existing equipment; acceptance of equipment and off-loading; storage of goods prior to installation; equipment assembly and installation; safety surfacing; borders and drainage provisions.

Acceptance of quotation:

Accepted By (printed): _____

Signature: _____

Title: _____

Purchase Amount: _____ \$191,390.62

P.O. No: _____

Date: _____

Phone: _____

E-mail: _____

Order Information

Bill to: _____

Company: _____

Attn: _____

Address: _____

City/State/Zip: _____

Billing Contact: _____

Billing Phone: _____

Billing Fax: _____

Ship to: _____

Company: _____

Attn: _____

Address: _____

City/State/Zip: _____

Jobsite Contact: _____

Jobsite Phone: _____

Jobsite Fax: _____

Enter desired color palette name: _____ OR

Enter desired color: Uprights () Decks ()

Accents () Roofs/Tubes () Slides/Panels ()

Bliss Products

By: _____

Salesperson's signature

Salesman's Signature

Customer's Signature

SuperMax Specifications

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.

Rotomolded 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.

General Specifications of Materials

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.

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).

Park Play Specifications

General System Specifications:

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.

Seat Packages

Strap & Tot Seats

Rights are reserved to discontinue or change specifications without notice.

Bucket Seats shall be fabricated with .020" thick stainless steel inserts covered by a dark green colored EPDM rubber.

Fully Enclosed Seats shall be fabricated with .025" thick stainless steel inserts covered by a dark green colored EPDM rubber.

Commercial Belt Seat - an extra piece of fluted rubber at the front and back of seat gives it a cushion bumper.

Therapeutic Swing

Made-for-Me Swing Seat

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). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

SuperMax Specifications

1.800.727.1907

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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

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/ft³ 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

SuperMax Clamp

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

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

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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.

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/ft³ 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.

Spin & Win Panel

Spin & Win Panel is cut from a sheet of high-density .750" & .350" thick extruded solid polyethylene with color molded in and UV-stabilized. Block is made of high-impact medium-density rotationally molded and UV-stabilized polyethylene with a minimum of 0.1875" wall thickness, rounded corners and with text numbers molded in. Each Block measures 9-1/16" wide by 8-7/8" high and is supported by one 1/2" O.D. nominal (schedule 40) galvanized 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.

Park Play Specifications

General System Specifications:

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

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- 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.

Freestanding Roto Climbers

MaxTwist Climber

Shall be 1/4" 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).

Side Climber:

Shall be fabricated from 2-1/2" black steel square tubing, 1.315" O.D. (14ga.) galvanized steel tubing and 1.029" O.D. (14ga) galvanized steel tubing. Side Climber shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein. Supports shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

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.

Freestanding Other

Button Step

BUTTON STEP: The Button Step shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational 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-155); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

MOUNTING POST: Shall be an all welded assembly fabricated of 2.375" O.D. galvanized steel tubing with a wall thickness of .095" and 12 gauge (.109") hot rolled flat steel that is formed. This assembly shall have a powder coat finish.

PLUG: Shall be fabricated of black butyl rubber with a durometer of 60.

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 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.

SuperMax Specifications

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

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/ft³ 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

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SuperMax Clamp

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

Metal Components

Telescope Panel

Telescope

Shall have a one piece cast aluminum frame with cast aluminum connectors. Telescope shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

Telescope Panel

Shall be fabricated from 1.315" O.D. galvanized steel tubing with 1.029" O.D. 15-gauge galvanized steel tubing inserts and 3/16" flat stainless steel used for the tabs. Telescope panel shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

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.

Park Play Specifications

General System Specifications:

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.

Freestanding - Other

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Jump 2 It

FOOTBUCK:

The upright shall be fabricated of 5" O.D. galvanized pipe and the mounting plate shall be a fabricated of 3/8" H.R. flat steel. The Footbuck shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder.

SPRING ASSEMBLY:

Spring shall consist of rubber encapsulated by cast steel with a steel inner core. Formed plates shall be fabricated of 3/8" thick steel and factory attached to spring.

PEANUT STEP PANEL:

Shall be precision cut from a single solid sheet of .750" thick UV-stabilized high density polyethylene with colors molded in. The material will have a density of 60 (lbs/ft) and a tensile strength of 4400 PSI (30 APA) as determined per procedure C of ASTM.

SUPPORT PIPE:

Support Pipe shall be fabricated from 1.029" O.D. x .072 wall (15 gauge) galvanized steel pipe with a .375" zinc plated .5mil coating with chromate finish pipe insert. The Support Pipe shall be coated with a custom formula of TGIC polyester powder.

TOP HANDLEBARS:

Shall be 3/16" 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).

CURVED FRAME WELDMENT:

The Curved Frame Weldment shall be fabricated from 3/8" laser cut hot rolled steel mounting plate, 3/16" laser cut hot rolled steel step plate, 11 gauge galvanized hot rolled steel cap, 3/16" thick hot rolled steel cap plate, 3.5" O.D. x .180" (7 gauge) wall galvanized angled support, curved frame, frame upright, 1/4" laser cut hot rolled steel gusset, 2.875" x .134" (10 gauge) wall galvanized support 3/8" x 1" 304 alloy steel stainless steel hex head bolt, and 2.375" O.D. x .134" (10 gauge) wall galvanized handhold gusset. The Curved Frame Weldment shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder.

SuperMax Specifications

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.

Metal Components

Paragon Climber

Paragon Climber Hdpe Insert:

Shall be fabricated 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./ft³ 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.

Paragon Climber Weldment:

Shall be fabricated from 3/16" x 2" hot rolled steel tab, 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel pipe, and 14 gauge galvanized pipe cap. Paragon Climber Weldment shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

Paragon Climber Footbuck:

Shall be fabricated from 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel pipe. The Footbuck shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with specifications outlined herein.

SuperMax Specifications

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

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-

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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/ft³ 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.

Rotomolded 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

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".

Trestle Bridge

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.

The Trestle Bridge is fabricated from pre-punched steel sheet 12-gauge thick with steel flat support bars welded underneath to increase strength. After welding, the entire platform is Plastisol coated, with a thickness of 80 mils minimum. Average perforation size is 3/16" diameter after coating. Ramp guardrails are fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing with 'L' fittings stainless steel welded for attachment. Each entire Guardrail receives 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

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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.

Deck Components

Kickplates

Kickplate is cut from galvanized 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.

Sensors

Bells

Bell:

Bells shall be all weld assemblies fabricated from formed 11 Ga. Steel, 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing, and purchases machined stainless steel insert. The Bell weld assemblies shall be coated in TGIC polyester powder coating as specified herein.

Bell Panel:

The bell panel shall be a precision cut from a single solid sheet of .750" thick UV-stabilized high-density polyethylene with colors molded in the material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30Mpa) as determined per procedure C of ASTM D1928. All edges shall have a radiuses and all corners rounded for safe play.

Pachinko

Pachinko:

The Pachinko shall be fabricated from 1/2" high density polyethylene, nylon spacers, and 3/16" thick UV inhibitive acrylic with 10mm nylon ball

General Specifications of Materials

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 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 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. NOTE: All weights are based on average comparisons of each part.

Powder Coat Finish

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.

Sensors

Sensory Summit Arch Climber

Sensory Wave 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).

Metal Components:

The footbuck weld assembly shall be an all weld assembly fabricated from 3 1/2" O.D. X .095" (13 gauge) wall galvanized steel tubing and 3/16" steel plate. The footbuck 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

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 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 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. NOTE: All weights are based on average comparisons of each part.

Powder Coat Finish

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.

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.

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

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

Sided Entrance Barrier

Pipe Wall is fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing steel welded to L-Fittings and 3/16" x 2" x 27" Arch Side Entrance Plate. The entire Pipe Wall is coated with a bake on polyester powder-coated finished.

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 galvanized 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" (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

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/ft³ 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

SuperMax Clamp

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

HDPE Components

Driving Panel

Panel is cut from a single sheet of high-density .750" thick extruded solid polyethylene with color molded in and UV-stabilized. The steering wheel is molded of a durable proprietary plastic and shall withstand an impact of over 250 foot-pounds. A grease impregnated bronze bushing is pressed into the shaft to provide smooth turning. The steering wheel mounting bracket is formed of 3/16" thick steel and has a powder coat finish.

Deck Components

Deck Curb

Deck Curb: Curb shall be fabricated from a punched 11 Ga. P&O steel plate, along with a 1/2" Dia. H.R. steel round rod in an all welded assembly. Assembly shall be plastisol coated after welding. See general specifications for plastisol coating requirements.

General Specifications of Materials

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.

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/ft³ 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.

Cabin Window w/ Seat

Reinforced Angle Brackets are made from 3/16" x 2" flat steel. Panels are cut from a single sheet of high-density, .750" and .350" thick extruded solid polyethylene with color molded in and UV-stabilized.

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.

Park Play Specifications

General System Specifications:

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

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- 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.

Freestanding - Other

Curved Balance Beams

Balance Beam is fabricated from 3/16" x 3" square steel tubing with 1-7/8" O.D. 13-gauge (.095") galvanized tubing legs welded, using stainless steel welds for maximum rust resistance. The entire Balance Beam receives a baked-on polyester powder coated finish. Optional surface mount legs include a welded 6" x 6" x 1/4" flat plate (anchoring hardware included).

SuperMax Specifications

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

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.

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.

Park Play Specifications

General System Specifications:

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.

Silo Climber

Silo Climber is fabricated with 1-5/8" O.D. 14-gauge galvanized steel tubing for Arch Posts and 1-5/16" O.D. 14-gauge galvanized steel tubing for rings. All parts have a baked on polyester powder-coated finish after fabrication.

Arch Swing Structures

Arch Swing - (3 1/2" O.D. Toprail)

Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

SuperMax Specifications

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

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.

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/ft³ 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.

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Sign Language Panel

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.

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

Ramps

The Ramp Platform is fabricated from HR steel with steel flat support bars welded underneath to increase strength. Transition Plate is fabricated from 1/8" steel plate stainless steel welding and pre-punched attachment holes and receives a baked-on polyester powder-coated finish after fabrication. After welding, the entire platform is Plastisol coated, with a thickness 80 mils minimum. Guard Rails and Pipe Walls are fabricated from 1-5/16" O.D. galvanized steel tubing with 'L' fittings stainless steel welded for attachment. Each entire Guard Rail or Pipe Wall receives a baked-on polyester powder-coated finish. Support Legs are fabricated from 1-5/8" O.D. galvanized steel tubing.

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.

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.

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.

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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.

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.

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.

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.

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Hardware

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Henrico County Area 1 8600 Staples Mill Road Henrico VA 23273 Bliss Products and Services	This play equipment is recommended for children ages: 2-5 Minimum Area Required: Per Area	Scale: 5/32" = 1'-0" This drawing can be scaled only when in an 11" x 17" format	Drawn By: Tiffanie Brown Date: 12/30/22 Quote Number: 645-157035	 544 Chestnut Street Chattanooga, TN 37402 800-727-1907 / www.playandpark.com	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Total Play Components</td> <td>13</td> <td></td> </tr> <tr> <td>Elevated Play Components</td> <td>8</td> <td></td> </tr> <tr> <td>Elevated Play Components Accessible by Ramp</td> <td>0</td> <td>Req. 0</td> </tr> <tr> <td>Elevated Components Accessible by Transfer</td> <td>8</td> <td>Req. 4</td> </tr> <tr> <td>Accessible Ground Level Components Shown</td> <td>5</td> <td>Req. 3</td> </tr> <tr> <td>Different Types of Ground Level Components</td> <td>3</td> <td>Req. 3</td> </tr> </table>	Total Play Components	13		Elevated Play Components	8		Elevated Play Components Accessible by Ramp	0	Req. 0	Elevated Components Accessible by Transfer	8	Req. 4	Accessible Ground Level Components Shown	5	Req. 3	Different Types of Ground Level Components	3	Req. 3	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>User Capacity</td> <td>40-50</td> </tr> <tr> <td>Critical Fall Height</td> <td>8'-0"</td> </tr> </table>	User Capacity	40-50	Critical Fall Height	8'-0"
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Critical Fall Height	8'-0"																											

TOTAL OVERALL AREA
1219 SQ FT
141 LINEAR FT

TOTAL OVERALL AREA
822 SQ FT
116 LINEAR FT

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.



HARMONY

HENRICO COUNTY - AREA 1
HENRICO, VA

645-157035

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



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



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HENRICO COUNTY - AREA 1
HENRICO, VA

645-157035

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IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157035 Henrico County Area 1

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
62349	Triangle Transfer Point W/Handhold 3' 4"	Duramax	Play & Park Structures
72019	Summit Climber 6'-8"	Supermax	Play & Park Structures
72018	Summit Climber 6'-0"	Supermax	Play & Park Structures
72017	Summit Climber 5'-4"	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
72015	Summit Climber 4'-0"	Supermax	Play & Park Structures
72014	Summit Climber 3'-4"	Supermax	Play & Park Structures
69264	Straight Section	Duramax	Play & Park Structures
69302	Square Deck	Duramax	Play & Park Structures
72013	Sprout Climber 8'-0"	Supermax	Play & Park Structures
72012	Sprout Climber 7'-4"	Supermax	Play & Park Structures
72011	Sprout Climber 6'-8"	Supermax	Play & Park Structures
72010	Sprout Climber 6'-0"	Supermax	Play & Park Structures
62282	Spiral Step Climber (5'-4" deck)	Duramax	Play & Park Structures
69261	Single Entrance Cascade	Duramax	Play & Park Structures
63939	Sided Entrance Barrier	Duramax	Play & Park Structures



IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157035 Henrico County Area 1

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
69445	Sensory Summit Arch Link 1 - Climber only (2'8" Thru 6')	Duramax	Play & Park Structures
62345	Return Step	Duramax	Play & Park Structures
63776	Rain Wheel For 3.5" Post	Duramax	Play & Park Structures
69517	PLAYSHELL CLIMBER 5' 4"	Duramax	Play & Park Structures
7201	Maze Assembly	Parkplay	Play & Park Structures
67920	Made For Me Swing 2-5	Parkplay	Play & Park Structures
567920	Made For Me Swing 2-5	Parkplay	Play & Park Structures
7206	Hypno Wheel Assembly	Parkplay	Play & Park Structures
69304	Hex Deck	Duramax	Play & Park Structures
69267	Exit Section	Duramax	Play & Park Structures
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
62229	Duramax ADA Racing Game Panel - HDPE	Duramax	Play & Park Structures
62372	Double Activity Panel	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
69266	Curve Right Section	Duramax	Play & Park Structures
69331	4' Single Velocity Slide	Duramax	Play & Park Structures
69328	4' Right Curved Velocity Slide	Duramax	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



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

ISSUE DATE: January 4, 2023

Requested By: Kelly Lindsay

Project: 645-157035 Henrico County Area 1

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
62349	Triangle Transfer Point W/Handhold 3' 4"	Duramax	Play & Park Structures
72019	Summit Climber 6'-8"	Supermax	Play & Park Structures
72018	Summit Climber 6'-0"	Supermax	Play & Park Structures
72017	Summit Climber 5'-4"	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
72015	Summit Climber 4'-0"	Supermax	Play & Park Structures
72014	Summit Climber 3'-4"	Supermax	Play & Park Structures
69302	Square Deck	Duramax	Play & Park Structures
72013	Sprout Climber 8'-0"	Supermax	Play & Park Structures
72012	Sprout Climber 7'-4"	Supermax	Play & Park Structures
72011	Sprout Climber 6'-8"	Supermax	Play & Park Structures
72010	Sprout Climber 6'-0"	Supermax	Play & Park Structures
62282	Spiral Step Climber (5'-4" deck)	Duramax	Play & Park Structures
63939	Sided Entrance Barrier	Duramax	Play & Park Structures
69445	Sensory Summit Arch Link 1 - Climber only (2'8" Thru 6')	Duramax	Play & Park Structures
62345	Return Step	Duramax	Play & Park Structures
63776	Rain Wheel For 3.5" Post	Duramax	Play & Park



IPEMA INTERNATIONAL
PLAY EQUIPMENT
MANUFACTURERS
ASSOCIATION



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

ISSUE DATE: January 4, 2023

Requested By: Kelly Lindsay

Project: 645-157035 Henrico County Area 1

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
69517	PLAYSHELL CLIMBER 5' 4"	Duramax	Play & Park Structures
7201	Maze Assembly	Parkplay	Play & Park Structures
7206	Hypno Wheel Assembly	Parkplay	Play & Park Structures
69304	Hex Deck	Duramax	Play & Park Structures
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
62372	Double Activity Panel	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



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

Date de Délivrance Initiale: janvier 4, 2023
Demandé par: Kelly Lindsay
Nom du parc: 645-157035 Henrico County Area 1

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
62349	Triangle Transfer Point W/Handhold 3' 4"	Duramax	Play & Park Structures
72019	Summit Climber 6'-8"	Supermax	Play & Park Structures
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72011	Sprout Climber 6'-8"	Supermax	Play & Park Structures
72010	Sprout Climber 6'-0"	Supermax	Play & Park Structures
62282	Spiral Step Climber (5'-4" deck)	Duramax	Play & Park Structures
63939	Sided Entrance Barrier	Duramax	Play & Park Structures
69445	Sensory Summit Arch Link 1 - Climber only (2'8" Thru 6')	Duramax	Play & Park Structures
62345	Return Step	Duramax	Play & Park Structures



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

Date de Délivrance Initiale: janvier 4, 2023
Demandé par: Kelly Lindsay
Nom du parc: 645-157035 Henrico County Area 1

MODÈLE n°	NOM COMMERCIAL DU PRODUIT	LIGNE DE PRODUIT	MANUFACTURIER
63776	Rain Wheel For 3.5" Post	Duramax	Play & Park Structures
69517	PLAYSHELL CLIMBER 5' 4"	Duramax	Play & Park Structures
7201	Maze Assembly	Parkplay	Play & Park Structures
7206	Hypno Wheel Assembly	Parkplay	Play & Park Structures
69304	Hex Deck	Duramax	Play & Park Structures
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
62372	Double Activity Panel	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
67558	3 1/2" O.D. Arch Swing – 2 Seat	Parkplay	Play & Park Structures



Bliss Products
6831 S. Sweetwater Rd
LithiaSprings, Georgia, 30122
Phone: 770.944.8290
Fax:
Email:
Contact: Kelly Robinson

Henrico County Area 1

Henrico County Recreation and Parks
 Attn: John Creger
 8600 Staples Mill Road
 Henrico, VA 23273
 Phone: 804-501-5660
 Cre057@henrico.us

Quote Number: 645-157035
 Quote Date: 12/21/2022

Stock ID	Description	Quantity	Weight	Unit Price	Amount
RDU	DURAMAX STRUCTURE	1	2897.84	\$53,182.00	\$53,182.00
	63715 -- WHISTLE	1			
	63776 -- RAIN WHEEL	1			
	62433 -- CURVY CANOPY HEX ROOF	1			
	62345 -- RETURN STEP	1			
	62229 -- ADA SPIN AND WIN PANEL	1			
	62372 -- DOUBLE ACTIVITY PANEL	1			
	7201 -- MAZE ASSEMBLY	1			
	7206 -- HYPNO WHEEL ASSY	1			
	62282 -- SPIRAL STEP CLIMBER 5'-4"	1			
	62086 -- CHAIN CLIMBER 3'4"&5'DECK	1			
	69331 -- 4'SINGLE VELOCITY SLIDE	1			
	69267 -- EXIT SECTION	1			
	69264 -- STRAIGHT SECTION	1			
	69266 -- CURVE RIGHT SECTION	1			
	69261 -- SINGLE ENTRANCE CASCADE	1			
	62015 -- 8"KICKPLATE	2			
	62349 -- TRIANGLE TRANSFER 3'-4"	1			
	69328 -- 4'RIGHT CURVED VELOCITY	1			
	69304 -- HEX DECK	2			
	69445 -- ARCH LINK 1 2'-8"/6'-0"	1			
	63939 -- OFFSET ENTRY ARCHWAY	1			
	69517 -- PLAYSHELL CLIMBER 5'-4"	1			
	69302 -- SQUARE DECK	1			
	63309 -- 3.5'OD ALUM POST W/CAP12'	3			
	60919 -- ZIG ZAG ADAPTER	7			
	63311 -- 3.5'OD ALUM POST W/CAP14'	1			
	63308 -- 3.5'OD ALUM POST W/CAP11'	1			
	63312 -- 3.5'OD ALUM POST W/CAP15'	6			
67920	3 1/2"MADE-FOR-ME SEAT GV	2	96	\$734.00	\$1,468.00
67558	3 1/2"OD ADA ARCH SWING	1	324	\$1,831.00	\$1,831.00

**FOR
 INFORMATIONAL
 PURPOSES ONLY
 BID PRICE WAS
 DISCOUNTED PER
 SECTION H**

Total Weight: 3317.84 SubTotal: \$56,481.00

TIMBERS NOT INCLUDED.

Freight: \$3,386.22
Total Amount: \$59,867.22

THIS QUOTATION IS SUBJECT TO POLICIES IN THE CURRENT PLAY & PARK STRUCTURES CATALOG AND THE FOLLOWING TERMS AND CONDITIONS. OUR QUOTATION IS BASED ON SHIPMENT OF ALL ITEMS AT ONE TIME TO A SINGLE DESTINATION, UNLESS NOTED, AND CHANGES ARE SUBJECT TO PRICE ADJUSTMENT. PURCHASES IN EXCESS OF \$1,000.00 TO BE SUPPORTED BY YOUR WRITTEN PURCHASE ORDER MADE OUT TO PLAY & PARK STRUCTURES, C/O Bliss Products.

Pricing: f.o.b. factory, firm for 30 days from date of quotation.

Shipment: order shall ship within 45-60 days after Play & Park Structures' receipt and acceptance of your purchase order, color selections, approved submittals, and receipt of deposit, if required.

Freight charges: Prepaid & added

Installation: A certified Play & Park Structures Installer is recommended for play equipment installation. Customer shall be responsible for scheduling coordination and site preparation. Site should be level and permit installation equipment access. Purchaser shall be responsible for unknown conditions such as buried utilities, tree stumps, bedrock or any concealed materials or conditions that may result in additional

labor or material costs.

Submittals: our design proposal reflects the spirit and intent of the project plans and specifications. While some variations may exist between our quotation and the project design, the differences do not materially affect the intended use. Play & Park Structures designs and specifications are unique and not intended to be identical in all respects to other manufacturers. We shall submit for review and approval by the owner's representative detailed drawings depicting the equipment to be furnished accompanied by specifications describing materials. Once approved, these drawings and specifications shall constitute the final documents for the project and shall take precedence over all other requirements.

Exclusions: unless specifically included, this quotation excludes all site work and landscaping; removal of existing equipment; acceptance of equipment and off-loading; storage of goods prior to installation; equipment assembly and installation; safety surfacing; borders and drainage provisions.

Acceptance of quotation:

Accepted By (printed): _____

Signature: _____

Title: _____

Purchase Amount: _____ \$59,867.22

P.O. No: _____

Date: _____

Phone: _____

E-mail: _____

Order Information

Bill to: _____

Company: _____

Attn: _____

Address: _____

City/State/Zip: _____

Billing Contact: _____

Billing Phone: _____

Billing Fax: _____

Ship to: _____

Company: _____

Attn: _____

Address: _____

City/State/Zip: _____

Jobsite Contact: _____

Jobsite Phone: _____

Jobsite Fax: _____

Enter desired color palette name: _____ OR

Enter desired color: Uprights () Decks ()

Accents () Roofs/Tubes () Slides/Panels ()

Bliss Products

By: _____

Salesperson's signature

Salesman's Signature

Customer's Signature

Henrico County Area 2
 8600 Staples Mill Road
 Henrico VA 23273

Bliss Products and Services

This play equipment is recommended for children ages: 5-12
 Minimum Area Required: Per Area

Scale: 3/32" = 1'-0"
 This drawing can be scaled only when in an 11" x 17" format

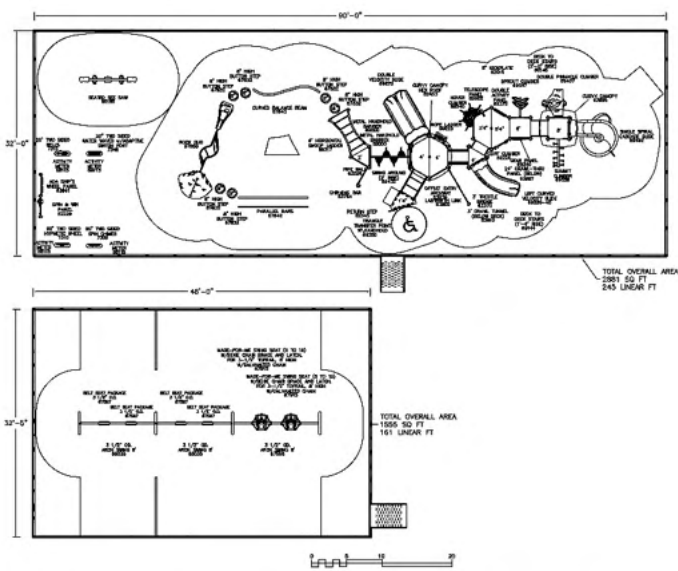
Drawn By: Tiffanie Brown
 Date: 12/30/22
 Quote Number: 645-157036

play&park structures
 544 Chestnut Street
 Chattanooga, TN 37402
 800-727-1907 | www.playandpark.com



Total Play Components: 40
 Elevated Play Components: 15
 Elevated Play Components Accessible by Ramp: 9
 Elevated Components Accessible by Transfer: 14
 Accessible Ground Level Components Shown: 25
 Different Types of Ground Level Components: 6

Req.	User Capacity
0	80-90
1	Critical Fall Height
2	8'-0"



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.



HARMONY

HENRICO COUNTY - AREA 2
HENRICO, VA
 645-157036

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HENRICO COUNTY - AREA 2
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HENRICO, VA

645-157036

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



544 CHESTNUT ST.
CHATTANOOGA, TN 37405
800.727.1907
PLAYANDPARK.COM



IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157036 Henrico County Area 2

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
62350	Triangle Transfer Point W/Handhold 4'	Duramax	Play & Park Structures
69303	Triangle Deck	Duramax	Play & Park Structures
62370	Trestle Bridge-3'	Duramax	Play & Park Structures
69002	Telescope Panel	Duramax	Play & Park Structures
62432	Swing Around 24" Deck Offset	Duramax	Play & Park Structures
72021	Summit Climber 8'-0"	Supermax	Play & Park Structures
69558	Summit Climber 8'-0"	Duramax	Play & Park Structures
72020	Summit Climber 7'-4"	Supermax	Play & Park Structures
72019	Summit Climber 6'-8"	Supermax	Play & Park Structures
72018	Summit Climber 6'-0"	Supermax	Play & Park Structures
72017	Summit Climber 5'-4"	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
72015	Summit Climber 4'-0"	Supermax	Play & Park Structures
72014	Summit Climber 3'-4"	Supermax	Play & Park Structures
69302	Square Deck	Duramax	Play & Park Structures
72013	Sprout Climber 8'-0"	Supermax	Play & Park Structures
72012	Sprout Climber 7'-4"	Supermax	Play & Park Structures
72011	Sprout Climber 6'-8"	Supermax	Play & Park Structures
69547	Sprout Climber 6'-0"	Duramax	Play & Park Structures
72010	Sprout Climber 6'-0"	Supermax	Play & Park Structures
69492	Single Spiral Cascade Slide	Duramax	Play & Park Structures
63939	Sided Entrance Barrier	Duramax	Play & Park Structures
65185	SEATED SEE SAW	Parkplay	Play & Park Structures
69520	ROPE LADDER (4'-0")	Duramax	Play & Park Structures
67950	Rock Duo	Parkplay	Play & Park Structures
62345	Return Step	Duramax	Play & Park Structures
67642	Parallel Bars	Parkplay	Play & Park Structures
69000	Metal Handhold Barrier	Duramax	Play & Park Structures
7201	Maze Assembly	Parkplay	Play & Park Structures
567915	Made For Me Swing Seat W/S.S. Chain (5-12)	Parkplay	Play & Park Structures
67915	Made For Me Swing Seat (5-12)	Parkplay	Play & Park Structures
63802	Labyrinth Link	Duramax	Play & Park Structures



IPEMA ASTM F1487-21 CERTIFICATE OF COMPLIANCE

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
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MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
69304	Hex Deck	Duramax	Play & Park Structures
7202	Echo Chamber Assembly	Parkplay	Play & Park Structures
62026	DURAMAX PIPE WALL	Duramax	Play & Park Structures
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
62224	Duramax Cliff Climber 64" - 72"	Duramax	Play & Park Structures
62229	Duramax ADA Racing Game Panel - HDPE	Duramax	Play & Park Structures
69407	Double Pinnacle Climber	Duramax	Play & Park Structures
62372	Double Activity Panel	Duramax	Play & Park Structures
69145	Deck to Deck Stairs 2' with Barrier	Duramax	Play & Park Structures
69144	Deck to Deck Stairs 1'4" with Barrier	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
63995	Curvy Canopy	Duramax	Play & Park Structures
67643	Curved Balance Beam	Parkplay	Play & Park Structures
63997	Crawl - Thru Panel	Duramax	Play & Park Structures
63764	Chinning Bar - Attachment	Duramax	Play & Park Structures
67832	Button Step	Parkplay	Play & Park Structures
67597	Belt Seat Package	Parkplay	Play & Park Structures
63810	Below Deck Crawl Tunnel, 3'	Duramax	Play & Park Structures
72029	Angled Step Climber 4'-8"	Supermax	Play & Park Structures
72028	Angled Step Climber 4'	Supermax	Play & Park Structures
72027	Angled Step Climber 3'-4"	Supermax	Play & Park Structures
69340	Activity Panel (Gear)	Duramax	Play & Park Structures
68115	Activity Meter	Parkplay	Play & Park Structures
63941	Accessible Ship's Wheel Panel	Duramax	Play & Park Structures
69317	6' Horizontal Swoop Ladder 32"	Supermax	Play & Park Structures
72025	4'-8" & 5'-4" Double Bend Climber	Supermax	Play & Park Structures
69330	4' Left Curved Velocity Slide	Duramax	Play & Park Structures
69272	4' Double Velocity Slide	Duramax	Play & Park Structures
68035	3.5" O.D. Arch Swing - Add-A-Bay	Parkplay	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



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

ISSUE DATE: January 4, 2023
Requested By: Kelly Lindsay
Project: 645-157036 Henrico County Area 2

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
62350	Triangle Transfer Point W/Handhold 4'	Duramax	Play & Park Structures
69303	Triangle Deck	Duramax	Play & Park Structures
62370	Trestle Bridge-3'	Duramax	Play & Park Structures
69002	Telescope Panel	Duramax	Play & Park Structures
62432	Swing Around 24" Deck Offset	Duramax	Play & Park Structures
72021	Summit Climber 8'-0"	Supermax	Play & Park Structures
69558	Summit Climber 8'-0"	Duramax	Play & Park Structures
72020	Summit Climber 7'-4"	Supermax	Play & Park Structures
72019	Summit Climber 6'-8"	Supermax	Play & Park Structures
72018	Summit Climber 6'-0"	Supermax	Play & Park Structures
72017	Summit Climber 5'-4"	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
72015	Summit Climber 4'-0"	Supermax	Play & Park Structures
72014	Summit Climber 3'-4"	Supermax	Play & Park Structures
69302	Square Deck	Duramax	Play & Park Structures
72013	Sprout Climber 8'-0"	Supermax	Play & Park Structures
72012	Sprout Climber 7'-4"	Supermax	Play & Park Structures
72011	Sprout Climber 6'-8"	Supermax	Play & Park Structures
69547	Sprout Climber 6'-0"	Duramax	Play & Park Structures
72010	Sprout Climber 6'-0"	Supermax	Play & Park Structures
63939	Sided Entrance Barrier	Duramax	Play & Park Structures
65185	SEATED SEE SAW	Parkplay	Play & Park Structures
69520	ROPE LADDER (4'-0")	Duramax	Play & Park Structures
67950	Rock Duo	Parkplay	Play & Park Structures
62345	Return Step	Duramax	Play & Park Structures
67642	Parallel Bars	Parkplay	Play & Park Structures
69000	Metal Handhold Barrier	Duramax	Play & Park Structures
7201	Maze Assembly	Parkplay	Play & Park Structures
63802	Labyrinth Link	Duramax	Play & Park Structures
69540	Hover Climber 5'4"	Duramax	Play & Park Structures
69304	Hex Deck	Duramax	Play & Park Structures
7202	Echo Chamber Assembly	Parkplay	Play & Park Structures
62026	DURAMAX PIPE WALL	Duramax	Play & Park Structures



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

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Requested By: Kelly Lindsay
Project: 645-157036 Henrico County Area 2

MODEL #	COMMERCIAL NAME OF PRODUCT	PRODUCT LINE	MANUFACTURER
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
62224	Duramax Cliff Climber 64" - 72"	Duramax	Play & Park Structures
69407	Double Pinnacle Climber	Duramax	Play & Park Structures
62372	Double Activity Panel	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
63995	Curvy Canopy	Duramax	Play & Park Structures
63997	Crawl - Thru Panel	Duramax	Play & Park Structures
67832	Button Step	Parkplay	Play & Park Structures
63810	Below Deck Crawl Tunnel, 3'	Duramax	Play & Park Structures
72029	Angled Step Climber 4'-8"	Supermax	Play & Park Structures
72028	Angled Step Climber 4'	Supermax	Play & Park Structures
72027	Angled Step Climber 3'-4"	Supermax	Play & Park Structures
69340	Activity Panel (Gear)	Duramax	Play & Park Structures
68115	Activity Meter	Parkplay	Play & Park Structures
69317	6' Horizontal Swoop Ladder 32"	Supermax	Play & Park Structures
72025	4'-8" & 5'-4" Double Bend Climber	Supermax	Play & Park Structures
68035	3.5" O.D. Arch Swing - Add-A-Bay	Parkplay	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



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

Date de Délivrance Initiale: janvier 4, 2023
Demandé par: Kelly Lindsay
Nom du parc: 645-157036 Henrico County Area 2

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
62350	Triangle Transfer Point W/Handhold 4'	Duramax	Play & Park Structures
69303	Triangle Deck	Duramax	Play & Park Structures
62370	Trestle Bridge-3'	Duramax	Play & Park Structures
69002	Telescope Panel	Duramax	Play & Park Structures
62432	Swing Around 24" Deck Offset	Duramax	Play & Park Structures
72021	Summit Climber 8'-0"	Supermax	Play & Park Structures
69558	Summit Climber 8'-0"	Duramax	Play & Park Structures
72020	Summit Climber 7'-4"	Supermax	Play & Park Structures
72019	Summit Climber 6'-8"	Supermax	Play & Park Structures
72018	Summit Climber 6'-0"	Supermax	Play & Park Structures
72017	Summit Climber 5'-4"	Supermax	Play & Park Structures
72016	Summit Climber 4'-8"	Supermax	Play & Park Structures
72015	Summit Climber 4'-0"	Supermax	Play & Park Structures
72014	Summit Climber 3'-4"	Supermax	Play & Park Structures
69302	Square Deck	Duramax	Play & Park Structures
72013	Sprout Climber 8'-0"	Supermax	Play & Park Structures
72012	Sprout Climber 7'-4"	Supermax	Play & Park Structures
72011	Sprout Climber 6'-8"	Supermax	Play & Park Structures
69547	Sprout Climber 6'-0"	Duramax	Play & Park Structures
72010	Sprout Climber 6'-0"	Supermax	Play & Park Structures
63939	Sided Entrance Barrier	Duramax	Play & Park Structures
65185	SEATED SEE SAW	Parkplay	Play & Park Structures
69520	ROPE LADDER (4'-0")	Duramax	Play & Park Structures
67950	Rock Duo	Parkplay	Play & Park Structures
62345	Return Step	Duramax	Play & Park Structures
67642	Parallel Bars	Parkplay	Play & Park Structures
69000	Metal Handhold Barrier	Duramax	Play & Park Structures
7201	Maze Assembly	Parkplay	Play & Park Structures
63802	Labyrinth Link	Duramax	Play & Park Structures
69540	Hover Climber 5'4"	Duramax	Play & Park Structures
69304	Hex Deck	Duramax	Play & Park Structures
7202	Echo Chamber Assembly	Parkplay	Play & Park Structures



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

Date de Délivrance Initiale: janvier 4, 2023
Demandé par: Kelly Lindsay
Nom du parc: 645-157036 Henrico County Area 2

MODÈLE n°	NOM COMMERCIAL DU PRODUIT	LIGNE DE PRODUIT	MANUFACTURIER
62015	Duramax Kickplate 8"	Duramax	Play & Park Structures
62224	Duramax Cliff Climber 64" - 72"	Duramax	Play & Park Structures
69407	Double Pinnacle Climber	Duramax	Play & Park Structures
62372	Double Activity Panel	Duramax	Play & Park Structures
62433	Curvy Canopy Hex Roof	Duramax	Play & Park Structures
63995	Curvy Canopy	Duramax	Play & Park Structures
63997	Crawl - Thru Panel	Duramax	Play & Park Structures
67832	Button Step	Parkplay	Play & Park Structures
63810	Below Deck Crawl Tunnel, 3'	Duramax	Play & Park Structures
72029	Angled Step Climber 4'-8"	Supermax	Play & Park Structures
72028	Angled Step Climber 4'	Supermax	Play & Park Structures
72027	Angled Step Climber 3'-4"	Supermax	Play & Park Structures
69340	Activity Panel (Gear)	Duramax	Play & Park Structures
68115	Activity Meter	Parkplay	Play & Park Structures
69317	6' Horizontal Swoop Ladder 32"	Supermax	Play & Park Structures
72025	4'-8" & 5'-4" Double Bend Climber	Supermax	Play & Park Structures
68035	3.5" O.D. Arch Swing - Add-A-Bay	Parkplay	Play & Park Structures
67558	3 1/2" O.D. Arch Swing - 2 Seat	Parkplay	Play & Park Structures



Bliss Products
6831 S. Sweetwater Rd
LithiaSprings, Georgia, 30122
Phone: 770.944.8290
Fax:
Email:
Contact: Kelly Robinson

Henrico County Area 2

Henrico County Recreation and Parks
 Attn: John Creger
 8600 Staples Mill Road
 Henrico, VA 23273
 Phone: 804-501-5660
 Cre057@henrico.us

Quote Number: 645-157036
 Quote Date: 12/21/2022

Stock ID	Description	Quantity	Weight	Unit Price	Amount
RDU	DURAMAX 5-12 STRUCTURE	1	6300.408	\$120,974.00	\$120,974.00
	63995 -- CURVY CANOPY	1			
	62433 -- CURVY CANOPY HEX ROOF	1			
	67832 -- BUTTON STEP F/S	6			
	67642 -- PARALLEL BARS F/S	1			
	63764 -- CHINNING BAR ATTACH	1			
	62026 -- PIPE WALL	1			
	69520 -- ROPE LADDER 4'-0"	1			
	63939 -- OFFSET ENTRY ARCHWAY	1			
	69330 -- 4'LEFT CURVED VELOCITY	1			
	63802 -- LABYRINTH LINK	1			
	67643 -- CURVED BALANCE BEAM F/S	1			
	69317 -- 6'HORIZ SWOOP LADDER 32"	1			
	69000 -- METAL HANDHOLD BARRIER	2			
	69303 -- TRIANGLE DECK	2			
	62432 -- SWING AROUND 24"DECK	1			
	63810 -- 3'BELOW DECK CRAWL TUBE	1			
	62345 -- RETURN STEP	1			
	62350 -- TRIANGLE TRANSFER 4'-0"	1			
	69272 -- 4'-0"DBL VELOCITY SLIDE	1			
	62224 -- CLIFF CLIMBER-64"/72"	1			
	69304 -- HEX DECK	4			
	62370 -- TRESTLE BRIDGE 3'-0"	1			
	69144 -- DECK TO DECK STAIR 1'-4"	1			
	62372 -- DOUBLE ACTIVITY PANEL	1			
	7202 -- ECHO CHAMBER ASSEMBLY	1			
	7201 -- MAZE ASSEMBLY	1			
	63997 -- CRAWL-THRU PANEL	1			
	69340 -- ACTIVITY PANEL-GEAR	1			
	69547 -- Sprout Climber 6'-0"	1			
	62015 -- 8"KICKPLATE	1			
	69002 -- TELESCOPE PANEL	1			
	69540 -- HOVER CLIMBER 5'-4"	1			
	69302 -- SQUARE DECK	2			
	69145 -- DECK TO DECK STAIR 2'-0"	1			
	69492 -- SINGLE SPIRAL CASCADE	1			
	69407 -- DOUBLE PINNACLE CLIMBER	1			
	69558 -- Summit Climber 8'-0"	1			
	67950 -- ROCK DUO	1			
	60919 -- ZIG ZAG ADAPTER	7			
	63940 -- ROOF EXTENSION-24"	4			
	63310 -- 3.5"OD ALUM POST W/CAP13'	10			
	63309 -- 3.5"OD ALUM POST W/CAP12'	3			
	63311 -- 3.5"OD ALUM POST W/CAP14'	1			
	63308 -- 3.5"OD ALUM POST W/CAP11'	5			
	62007 -- 3.5"ALUM UPR 10'W/CAP	2			
	63307 -- 3.5"OD ALUM POST W/CAP10'	1			
	G62008 -- 3.5"GALV UPR 12'W/CAP	1			
	62021 -- 3.5" ALUM UPR 8'W/CAP	1			

**FOR
 INFORMATIONAL
 PURPOSES ONLY
 BID PRICING WAS
 DISCOUNTED PER
 SECTION H**

	63312 -- 3.5"OD ALUM POST W/CAP15'	4			
	63304 -- 3.5"OD ALUM POST W/CAP 7'	1			
	63305 -- 3.5"OD ALUM POST W/CAP 8'	1			
	69341 -- DECK FLAT CAP PKG	2			
	7310 20"HYPNETIC WHEEL 2-SIDE	1	10	\$1,651.00	\$1,651.00
	7309 2-SIDED SPIN CHIMES	1	36	\$2,009.00	\$2,009.00
	7346 20" Two Sided Water Wave	1	14	\$3,059.00	\$3,059.00
	7315 2-SIDED 20"BELL	1	35	\$1,853.00	\$1,853.00
	68115 ACTIVITY METER	4	160	\$804.00	\$3,216.00
	RDU FREESTANDING PANELS	1	123	\$3,442.00	\$3,442.00
	62229 -- ADA SPIN AND WIN PANEL	1			
	63941 -- ACCESSIBLE SHIP'S WHEEL	1			
	62013 -- 3.5"ALUM UPR 6'W/CAP	3			
	65185 SIT 2 IT	1	249	\$4,439.00	\$4,439.00
	RDU SWINGS	1	892	\$7,349.00	\$7,349.00
	67597 -- BELT SEAT 3 1/2"OD	4			
	67915 -- 3 1/2"MADE-FOR-ME SEAT GV	2			
	68035 -- 3.5"OD STD ARCH SWING AAB	2			
	67558 -- 3 1/2"OD ADA ARCH SWING	1			

Total Weight: 7819.408

SubTotal: \$147,992.00

Freight: \$7,398.46

Total Amount: \$155,390.46

TIMBERS NOT INCLUDED

THIS QUOTATION IS SUBJECT TO POLICIES IN THE CURRENT PLAY & PARK STRUCTURES CATALOG AND THE FOLLOWING TERMS AND CONDITIONS. OUR QUOTATION IS BASED ON SHIPMENT OF ALL ITEMS AT ONE TIME TO A SINGLE DESTINATION, UNLESS NOTED, AND CHANGES ARE SUBJECT TO PRICE ADJUSTMENT. PURCHASES IN EXCESS OF \$1,000.00 TO BE SUPPORTED BY YOUR WRITTEN PURCHASE ORDER MADE OUT TO PLAY & PARK STRUCTURES, C/O Bliss Products.

Pricing: f.o.b. factory, firm for 30 days from date of quotation.

Shipment: order shall ship within 45-60 days after Play & Park Structures' receipt and acceptance of your purchase order, color selections, approved submittals, and receipt of deposit, if required.

Freight charges: Prepaid & added

Installation: A certified Play & Park Structures Installer is recommended for play equipment installation. Customer shall be responsible for scheduling coordination and site preparation. Site should be level and permit installation equipment access. Purchaser shall be responsible for unknown conditions such as buried utilities, tree stumps, bedrock or any concealed materials or conditions that may result in additional labor or material costs.

Submittals: our design proposal reflects the spirit and intent of the project plans and specifications. While some variations may exist between our quotation and the project design, the differences do not materially affect the intended use. Play & Park Structures designs and specifications are unique and not intended to be identical in all respects to other manufacturers. We shall submit for review and approval by the owner's representative detailed drawings depicting the equipment to be furnished accompanied by specifications describing materials. Once approved, these drawings and specifications shall constitute the final documents for the project and shall take precedence over all other requirements.

Exclusions: unless specifically included, this quotation excludes all site work and landscaping; removal of existing equipment; acceptance of equipment and off-loading; storage of goods prior to installation; equipment assembly and installation; safety surfacing; borders and drainage provisions.

Acceptance of quotation:

Accepted By (printed): _____

Signature: _____

Title: _____

Purchase Amount: _____ \$155,390.46

P.O. No: _____

Date: _____

Phone: _____

E-mail: _____

Order Information

Bill to: _____

Company: _____

Attn: _____

Address: _____

City/State/Zip: _____

Billing Contact: _____

Billing Phone: _____

Billing Fax: _____

Ship to: _____

Company: _____

Attn: _____

Address: _____

City/State/Zip: _____

Jobsite Contact: _____

Jobsite Phone: _____

Jobsite Fax: _____

Enter desired color palette name: _____ OR

Enter desired color: Uprights () Decks ()

Accents () Roofs/Tubes () Slides/Panels ()

Bliss Products

By: _____

Salesperson's signature

Salesman's Signature

Customer's Signature

DuraMax Specifications

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.

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.

Curvy Hex Roof

1.800.727.1907

playandpark.com

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.

SuperMax Specifications

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

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.

DuraMax Specifications

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.

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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.

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.

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/ft³ 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.

Spin & Win Panel

Spin & Win Panel is cut from a sheet of high-density .750" & .350" thick extruded solid polyethylene with color molded in and UV-stabilized. Block is made of high-impact medium-density rotationally molded and UV-stabilized polyethylene with a minimum of 0.1875" wall thickness, rounded corners and with text numbers molded in. Each Block measures 9-1/16" wide by 8-7/8" high and is supported by one 1/2" O.D. nominal (schedule 40) galvanized pipe.

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/ft³ 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.

Sensors

Hypnetic Wheel

Hypnetic Spinner:

The Hypnetic Spinner shall be fabricated from 3/4" high density polyethylene and 1/4" thick polycarbonate

General Specifications of Materials

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 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 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. NOTE: All weights are based on average comparisons of each part.

Sensors

Water Waves

Wave Sounds Panel:

The Wave Sounds panels shall be fabricated from 3/4" high density polyethylene with electronic components contained within water tight

low density polyethylene housing.

HDPE Spacer Rings:

The HDPE spacer rings shall be fabricated from 3/4" high density polyethylene

General Specifications of Materials

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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 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 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. NOTE: All weights are based on average comparisons of each part.

Sensors

Bells

Bell:

Bells shall be all weld assemblies fabricated from formed 11 Ga. Steel, 1-5/16" O.D. x .083" (14 gauge) wall galvanized steel tubing, and

purchases machined stainless steel insert. The Bell weld assemblies shall be coated in TGIC polyester powder coating as specified herein.

Bell Panel:

The bell panel shall be a precision cut from a single solid sheet of .750" thick UV-stabilized high-density polyethylene with colors molded in the material will have a density of 60 lbs/ft³ and a tensile strength of 4400 PSI (30Mpa) as determined per procedure C of ASTM D1928. All edges shall have a radiuses and all corners rounded for safe play.

General Specifications of Materials

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 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 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. NOTE: All weights are based on average comparisons of each part.

Powder Coat Finish

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.

Park Play Specifications

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General System Specifications:

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.

Freestanding Other

Button Step

BUTTON STEP: The Button Step shall be rotational molded from polyethylene. The polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotational 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-155); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-790); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

MOUNTING POST: Shall be an all welded assembly fabricated of 2.375" O.D. galvanized steel tubing with a wall thickness of .095" and 12 gauge (.109") hot rolled flat steel that is formed. This assembly shall have a powder coat finish.

PLUG: Shall be fabricated of black butyl rubber with a durometer of 60.

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 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.

SuperMax Specifications

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:

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- 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

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.

Park Play Specifications

General System Specifications:

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.

Parallel Bars

Parallel Bars are bent from 1-7/8" O.D. 11-gauge galvanized steel tube with a baked on polyester powder-coat finish after fabrication.

SuperMax Specifications

General System Specifications:

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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.

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.

DuraMax Specifications

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.

Metal Components

Chinning Bar

Clamps are cast from a 356 high-strength aluminum alloy. 37" Pipe Rail is 1 5/16" O.D. 14 gauge galvanized steel Tubing. All metal parts shall be coated with a custom formula TGIC polyester powder coating.

Primary hardware is stainless steel.

Weight: 8 Lbs / 3.6 Kg.

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

Pipe Wall

Pipe Wall consists of 1 5/16" O.D. galvanized steel tubing with 1 1/16" O.D. galvanized steel rungs. Pipe Wall is coated with a baked on polyester powder-coated finish after fabrication.

Sided Entrance Barrier

Pipe Wall is fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing steel welded to L-Fittings and 3/16" x 2" x 27" Arch Side Entrance Plate. The entire Pipe Wall is coated with a bake on polyester powder-coated finished.

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

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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.

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 conc-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.

Deck Components

Labyrinth Link

The Labyrinth Link net shall be constructed of 16mm galvanized wire reinforced cable with a urethane coated polyester cover. The cable clamp assembly shall be formed from 3/16" x 3 1/2" hot rolled flat steel with 1/2" welded tabs. The cable clamp assembly shall be coated with a custom formula of TGIC polyester powder coating.

SuperMax Specifications

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

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.

Park Play Specifications

General System Specifications:

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

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

Freestanding - Other

Curved Balance Beams

Balance Beam is fabricated from 3/16" x 3" square steel tubing with 1-7/8" O.D. 13-gauge (.095") galvanized tubing legs welded, using stainless steel welds for maximum rust resistance. The entire Balance Beam receives a baked-on polyester powder coated finish. Optional surface mount legs include a welded 6" x 6" x 1/4" flat plate (anchoring hardware included).

SuperMax Specifications

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

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.

Park Play Specifications

General System Specifications:

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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.

Freestanding - Other

See Saw

FOOTBUCK:

The upright shall be fabricated of 5" O.D. galvanized pipe and the mounting plate shall be a fabricated of 3/8" H.R. flat steel. Shall be a one piece welded unit. The Footbuck shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder.

SPRING ASSEMBLY:

Spring shall consist of rubber encapsulated by cast steel with a steel inner core. Formed plates shall be fabricated of 3/8" thick steel and factory attached to spring.

SADDLE SEAT:

Shall be cast aluminum 1/4" thick wall molded in handholds. There shall be four screw bosses cast to the seat which are integral parts of the seat. The bosses shall be drilled to receive four 3/8" diameter bolts.

SEATED SEE SAW WELDMENT:

The Seated See Saw Weldment shall be fabricated from 3/8" laser cut hot rolled steel mounting plate, 3.5" O.D. x .180" (7 gauge) wall galvanized curved frame, frame upright, angled support, 1/4" laser cut hot rolled steel gusset and mounting plate, 11 gauge galvanized hot rolled steel cap, 1.315" O.D. x .133" (10 gauge) schedule 40 galvanized pipe. The Seated See Saw Weldment shall be an all welded assembly and shall be coated with a custom formula of TGIC polyester powder.

DuraMax Specifications

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

Metal Handhold Barrier

Metal Handhold Barrier 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 stainless steel for attachment to clamp. The Metal Handhold Barrier shall be an all-welded assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating.

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.

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.

SuperMax Specifications

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:

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- 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.

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.

DuraMax Specifications

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.

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

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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.

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.

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

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.

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 polyvinyl-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 galvanneal 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

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.

HDPE Components

Cliff Climber

Flat Bracket is made from 4-3/4" x 2" 11-gauge galv. sheet and receives a baked-on polyester powder-coated finish after fabrication. Panels are cut from a sheet of high-density .750" thick extruded solid polyethylene with color molded in and UV-stabilized. Rock is made from injection molded plastics.

Deck Components

Trestle Bridge

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.

The Trestle Bridge is fabricated from pre-punched steel sheet 12-gauge thick with steel flat support bars welded underneath to increase strength. After welding, the entire platform is Plastisol coated, with a thickness of 80 mils minimum. Average perforation size is 3/16" diameter after coating. Ramp guardrails are fabricated from 1-5/16" O.D. 14-gauge galvanized steel tubing with 'L' fittings stainless steel welded for attachment. Each entire Guardrail receives 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.

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

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 %

SuperMax Specifications

General System Specifications:

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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.

Rotomolded Components

Activity Panel

Activity Panel shall be 2-1/2" 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. 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).

Park Play Specifications

General System Specifications:

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.

Other

Small Amaze Activity

Small Activity: The Triangle Housing and Caps shall be injection molded from color impregnated high density polyethylene. The Maze Bubble shall be injection molded from clear ABS plastic. The Echo Chamber, Answer Wheel, Knob and Maze shall be injection

molded from color impregnated ABS plastic. The Flat Mirror shall be 1/8" thick Polycarbonate with a mirror finish applied to one side. The Stained Glass shall be 3/16" translucent Polycarbonate

DuraMax Specifications

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.

Roto-Molded Components

Crawl Thru Tunnel

Clamps are cast from a 356 high-strength aluminum alloy with a baked on polyester powder-coated finish.

Panel is made of double-walled high-impact rotationally molded and UV-stabilized polyethylene with a minimum of 3/16" wall thickness and rounded corners and edges. Each Panel measures 31-1/2" wide by 41" high and is supported by two 1/4" X 1-3/4" stainless steel brackets with a powder coated finish. Center opening of panel measures 24" diameter.

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 scaler to prevent flash rusting before coating. The coating shall have a super tough finish with maximum exterior durability and will have

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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.

Deck Components

Telescope Panel

Telescope

Shall have a one piece cast aluminum frame with cast aluminum connectors. Telescope shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

Telescope Panel

Shall be fabricated from 1.315" O.D. galvanized steel tubing with 1.029" O.D. 15-gauge galvanized steel tubing inserts and 3/16" flat stainless steel used for the tabs. Telescope panel shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

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.

Roto-Molded Components

Cascade Slides

Footback:

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 1/4" 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.

Park Play Specifications

General System Specifications:

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.

Freestanding Roto Climbers

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Rock Duo

Rappelling Rock & Angled Rock:

Shall be 3/8" wall thickness double wall construction, color impregnated linear low density polyethylene and shall conform to the rotationally molded specification 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, call 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)

Bottom Support:

Shall be an all welded construction fabricated from 2" x 2" x 1/4" Hot Rolled Angle. The Formed Plate shall be 1/4" hot rolled flat steel

Climber

Shall be an all welded construction fabricated from 1.66" OD galvanized steel tubing, 1.029" OD galvanized steel tubing. The Climber shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

Rappelling Rock Pipe and Angle Rock Pipe"

Shall be an all welded construction fabricated from 1.66"OD galvanized steel tubing and formed plate shall be 1/4" hot rolled steel. The climber shall be coated after fabrication with a custom formula of TGIC polyester powder coating in coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein.

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.

Seat Packages

Strap & Tot Seats

Rights are reserved to discontinue or change specifications without notice.

Bucket Seats shall be fabricated with .020" thick stainless steel inserts covered by a dark green colored EPDM rubber.

Fully Enclosed Seats shall be fabricated with .025" thick stainless steel inserts covered by a dark green colored EPDM rubber.

Commercial Belt Seat - an extra piece of fluted rubber at the front and back of seat gives it a cushion bumper.

Therapeutic Swing

Made-for-Me Swing Seat

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). The swing hanger shall consist of a top clevis, bottom clevis, and swing pendulum. The top clevis shall have a non-slip-serrated surface. The pendulum shall incorporate a factory installed bronze bushing. The pendulum shall be attached to the bottom clevis with 1/2" x 2 1/2" hex bolt, 1/2" lockwasher, and 1/2" hex nut.

Arch Swing Structures

Arch Swing - (3 1/2" O.D. Toprail)

Toprail is 3-1/2" O.D. 11-gauge galvanized steel tubing with a baked on polyester powder-coated finish. Arch posts are bent from 3-1/2" O.D. steel tubing with welded socket. All metal parts have a baked on polyester powder-coated paint finish.

SuperMax Specifications

1.800.727.1907

playandpark.com

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

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.

DuraMax Specifications

General System Specifications:

1.800.727.1907

playandpark.com

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)
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- 15-Year limited warranty on rotationally molded polyethylene components
- Lifetime limited warranty on all hardware

Manufacturer shall be ISO 9001/2000 certified

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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.

Uprights - Aluminum

The posts shall be 3 1/2" O.D. with a 0.125" wall thickness 6061-T6 extruded seamless Aluminum tubing conforming to ASTM B-221 and QQ-A 200/8. Tensile strength is 44,962 psi, and yield strength is 39,885 psi. Entire post is polyester powder-coated after fabrication. A cast aluminum cap of matching color is factory riveted into the top end using two aluminum rivets.

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.

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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.

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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 %

SuperMax Specifications

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

1.800.727.1907

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

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.

DuraMax Specifications

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.

Uprights - Steel

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Shall be 3.5" outside diameter, 13 gauge (.095") galvanized round tubing, manufactured to ASTM A-500 Section II 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 have a finished grade line marking to indicate the correct playground safety surface level. All upright posts shall be coated with a custom formula TGIC polyester powder coating in conformance with the specifications outlined herein.

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 conc-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.

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.

Uprights - Aluminum

The posts shall be 3 1/2" O.D. with a 0.125" wall thickness 6061-T6 extruded seamless Aluminum tubing conforming to ASTM B-221 and QQ-A 200/8. Tensile strength is 44,962 psi, and yield strength is 39,885 psi. Entire post is polyester powder-coated after fabrication. A cast aluminum cap of matching color is factory riveted into the top end using two aluminum rivets.

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

TAB 8 – EXCEPTIONS

Prices contained herein are based upon the Sample Data provided. Bliss Products & Services will provide pricing based upon equipment, site conditions, time for completion, access site access and any other pertinent data on a per project basis.

TAB 9 – ASSUMPTIONS

The following assumptions were made during the formulation of BPS' bid response.

- 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.
- Performance and Payment Bonds were not included as part of the sample pricing provided. Any P&P Bond required will be billed at the rate of 3% of contract value.
- 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.
- 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 normal trash and spoils is included.
- 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.
- Any resultant orders shall not contain Davis Bacon wage requirements.
- Lead times are based on current market conditions.
- Drawings provided as a result of this contract are to be similar to those submitted within the bid documents, any additional drawings that would require the expertise of an outside architect/engineer shall be billed to the County of Henrico.
- Hourly rates are based on a foreman, two experienced crew members and a back-hoe and does not include material costs

TAB 10 - APPENDICIES

BPS Site Specific Safety Plan

BPS Project Management

Sample GANTT Chart

CORE Presentation for Education

Executive Summary on Inclusion

Executive Summary on Play ON

National Demonstration Site Information

BPS SITE SPECIFIC SAFETY PLAN SAMPLE

SAMPLE GANTT CHART

“The safety and health of our employees is our top priority. Everyone goes home safe and healthy – every day.”

Site Specific Safety Information – NSB New London



Safety Plan

Section 1.0 – Company Information and Key Contacts

Company Name:	Bliss Products & Services, Inc.		
Address:	6831 S. Sweetwater Road, Lithia Springs, GA 30122		
Contract number: NAVMWR-20-C0001		Contract Date: 05/12/2020	
Project Manager: Kelly Robinson	Project Manager Phone #: 757.305.6284		
Site Supervisor: Charles Romando, Jr.	Site Supervisor Cell Phone #: 508.308.1888		
Site Safety & Quality Officer: David Ferraiuolo	Site Safety Officer Cell Phone #: 203.627.6294		
BPS Construction Manager: Gregg Bliss	BPS Construction Manager Phone #: 800.248.2547		
BPS Incident Reporting* (all incidents, mishaps and close calls shall be reported ASAP and within 8 hours):	757.305.6284		

Section 2.0 – Detailed Work Scope

Detailed Description of Work (per contract):	Demolition of Existing Playground, Installation of New Playground Equipment, Resilient Surfacing, Benches, Litter Receptacles As Defined by Project Drawings
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Section 3.0 – Work Location

NSB New London	
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Section 4.0 – Assigned Personnel

Personnel Assigned to Project	Employee Name	Phone Number
Site Supervisor	Charles Romando, Jr.	508.308.1888
Quality Control /Safety	David Ferraiuolo	203.627.6294
Project Manager	Kelly Robinson	757.305.6284
President	Gregg Bliss	800.248.2547

Section 5.0 – *Minimum PPE that will be used

<input checked="" type="checkbox"/> Hard Hat	<input checked="" type="checkbox"/> Safety Vest	<input checked="" type="checkbox"/> Safety Glasses	<input checked="" type="checkbox"/> Steel Toe Shoes
<input type="checkbox"/> Leather Gloves	<input type="checkbox"/> Nitrile Gloves	<input type="checkbox"/> Ear Plugs	<input type="checkbox"/> Ear Muffs
<input type="checkbox"/> Face Shield	<input type="checkbox"/> Respirator (Type:)	<input type="checkbox"/> Dust Mask	<input type="checkbox"/> Other:

*Additional required PPE should be identified in the control column of the task hazard analysis (Section 9.0)

Section 6.0 – Injury Reporting

All employees and subs will report all mishaps and close calls immediately to their supervisor and the BPS construction manager/administrator, who shall report all mishaps and close calls shall be made to the Operations Manager and President. All Type A, B, C (hospitalization for inpatient care of one or two people), high visibility mishap, or high visibility close call must be reported within 1 hour. An initial report must be submitted to BPS within 8 hours. A detailed follow up report including: a company incident report, investigation findings, initial corrective actions, proposed and or completed corrective actions and lessons learned shall be sent to the construction manager/administrator and the BPS Safety representative within 24 hours.

Section 7.0 – Mishaps, Incident Report, Emergency Procedures, Hospital Identification and Map

The nearest major hospital to Naval Submarine Base New London is the Lawrence & Memorial Hospital which offers emergency room services and inpatient care. The main hospital is located at 365 Montauk Avenue in New London, Connecticut. Hospital is Approximately 1.6miles from job site location.

1. Start out going **south** on Huntington St toward Jay St.

Then 0.06 miles 0.06 total miles

2. Take the 1st **right** onto Jay St.
If you reach Washington St you've gone about 0.1 miles too far

Then 0.17 miles 0.23 total miles

3. Jay St becomes Truman St.

Then 0.28 miles 0.52 total miles

4. Turn **right** onto Bank St.

Then 0.05 miles 0.56 total miles

5. Take the 1st **left** onto Montauk Ave.

If you reach Jefferson Ave you've gone a little too far

Then 0.91 miles 1.48 total miles

6. Turn **right**.

0.1 miles past Fair Harbour Pl

If you reach Converse Pl you've gone a little too far

Then 0.05 miles 1.52 total miles

7. Take the 1st **right**.

If you reach Ocean Ave you've gone a little too far

Then 0.03 miles 1.55 total miles

8. Turn **slight right**.

Then 0.03 miles 1.58 total miles



9. 365 Montauk Ave, New London, CT 06320-4700, 365 MONTAUK AVE.

For ALL mishaps, submit an initial report within 8 hours from time of mishap or close call to the BPS Construction Manager. The initial report must include: Incident Description, Anticipated Mishap Reporting Classification, Date and Time of Incident, Location of Incident, Initial actions and/or corrective actions, estimated property damage (if applicable), identify the body part and injury (if applicable)

Section 8.0 – Task Specific Hazard Analysis

Task: Hand Operated Power Tool Use

HAZARDS	CONTROLS
Shock	<ul style="list-style-type: none"> • Ensure tool casing is free from cracks and is properly grounded. • Use tool connected to GFCI if cord powered. • Wear insulated gloves. • Ensure tool is unplugged before changing any part of the tool.
Hand lacerations	<ul style="list-style-type: none"> • Wear appropriate gloves (e.g., leather gloves) when changing out/handling blades, where applicable. • Ensure tool is unplugged before changing any part of the tool. • Check that the guard is in working condition and in the proper position, if applicable.
Eye and other physical injuries	<ul style="list-style-type: none"> • Always wear safety goggles; wear hearing protection where applicable. • Don't wear loose clothing. • Ensure that material being operated on is secured.

	<ul style="list-style-type: none"> • Make sure the blade or bit is not binding as it goes into the work. If blade or bit is binding, cease operation of the tool and evaluate reasons for binding.
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Task: Ladder Use

HAZARDS	CONTROLS
Falls from ladders	<ul style="list-style-type: none"> • Select proper ladder. • Do not use light household ladder for a heavy construction job. • Do not exceed ladder duty rating. • Inspect ladder before use. Insure ladder is clean and free of defects before use. • Maintain 4:1 slope ratio with straight ladders. • Use 3 point contact while climbing. • Extend ladder 36” if climbing onto another surface. • Do not use top step of stepladder and top 3 rungs of straight ladder. • Secure all extension ladders from movement. • Ensure ladder is not placed on a loose object or on uneven footing. • To prevent slipping, equip the ladder with non-slip points or safety shoes, if practical. If not, secure the ladder firmly by lashing it with rope or by other means. • Do not lean ladders against a moveable objects or against window sashes. • Fasten a board securely across the top of the ladder to give a bearing on each side of the window. • See that a helper stands guard in dangerous circumstances, as when a ladder is in front of a door. If there is a danger of a person or vehicle bumping into the ladder, have a helper stand guard or rope off the space with caution tape around the ladder. • Remove any oil or grease from the soles of your shoes before using the ladder. • Do not over reach and do not push or pull if it will cause the ladder to move. If you are far away from something you have to reach, take time to move the ladder closer. • Do not straddle the space between the ladder and another object.

Task: Scaffold Use

Task: Elevated Work Platform Use (e.g. scissor lifts, boom lifts, JLG’s, etc.)

HAZARDS	CONTROLS
Lift failure/tip over	<ul style="list-style-type: none"> • All elevated work platforms must be used in accordance with CALOSHA and manufacturers use instructions. • Personnel must be trained, qualified and approved to operate all elevated platforms and boom lifts. • Inspect lift before use. • Do not use left on unstable ground or on angles over the lifts cap. Look for Drop-offs, holes, or unstable surfaces such as loose/soft dirt.
Falls	<ul style="list-style-type: none"> • Fall protection must be used in accordance with the manufacturers’ recommendations on all elevated platforms and boom lifts.

Damaged/broken equipment	<ul style="list-style-type: none"> • Elevated work platforms must be used and inspected in accordance with the manufacturer’s instruction for each specific model and type of elevated work platform being used. • All elevated work platforms (e.g. scissors lifts, aerial platforms, etc.) and boom lifts must be inspected by the assigned qualified /competent person prior to acceptance for use at the laboratory. • Elevated work platforms and boom lifts must be inspected by a trained and qualified operator prior to each use. • Document the inspection on the work platform inspection tag. • If the elevated work platform or boom lift does not pass inspection, remove the inspection tag, and replace it with a red “Do Not Use” tag and remove from service.
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Task: Electrical Cutovers and Work on Electrical Equipment

HAZARDS	CONTROLS
Contact with energized parts	<ul style="list-style-type: none"> • All workers working on energized equipment will Arc-Flash protective clothing I accordance with NFPA 70E. The PPE will consist of flame retardant clothing or flash suits, eye, face, hand, head, and foot protection as necessary. A flash boundary will be established and only trained and authorized individuals will be allowed in the flash boundary. • Keep all covers and barriers guarding live parts in place except when required to be removed for testing. • Place grounding jumpers adequate to clear fault currents on equipment where practical.
Inadvertent start-up of electrical equipment	<ul style="list-style-type: none"> • Review Lockout/Tag out (LOTO) procedures with workers and BPS prior to starting work. • De-energize electrical equipment and apply BPS approved red locks and tags per BPS form 2885 and company Lockout/Tag out procedure. • All employees are instructed to verify lockouts are in place and equipment is de-energized prior to beginning any work.

Task: Underground Duct Bank and Conduit Installation, Including Excavation, Encasement, and Backfill

HAZARDS	CONTROLS
Contact with active utility lines	<ul style="list-style-type: none"> • Review all area underground utility drawings with BPS construction administrator. • Have the area of excavation surveyed with a ground penetrating radar and Electro-magnetic RF instrument prior to the commencement of digging. • Obtain an Excavation Permit from BPS prior to the commencement of any digging activities (exception hand digging, <12”). • Use hand excavation techniques around all known utilities.
Possible pedestrian or vehicular traffic in work area and falls into open trenches	<ul style="list-style-type: none"> • Provide barricades or fencing around site as necessary to protect personnel and equipment. • Provide pedestrian walkway over trenches where emergency egress from building is required. • Provide traffic rated steel plates at traffic crossings and ensure plates are secure from displacement.
Collapse of trenches	<ul style="list-style-type: none"> • Soil will be inspected by a competent person in trenching, excavations, and protective systems. • Protective systems will be used for any trench or excavation 5 feet or deeper or made in unstable soil.

Excavation equipment striking worker	<ul style="list-style-type: none"> Workers will make every attempt to stay clear of moving equipment. Workers will wear high visibility clothing when working in close proximity to moving equipment.
Materials falling into trench	<ul style="list-style-type: none"> Keep all spoils and materials at least 2 feet away from the edge of trench.

Task: Use of Scissor Lift or Aerial lift to Access Work and Install Conduit/Equipment/Material and Wire

HAZARDS	CONTROLS
Slips, trips and falls on tools and material	<ul style="list-style-type: none"> Maintain active housekeeping. Keep tools and material out of travel path.
Lift failure/tip over	<ul style="list-style-type: none"> Employees must be trained and certified to use lift. Inspect lift before use Do not use lift on unstable ground or on angles over the lift's cap. Look for Drop-offs, holes, or unstable surfaces such as loose/soft dirt.
Tool drop from lift	<ul style="list-style-type: none"> Keep area under bucket clear. Set cones/barricades to prevent pedestrian traffic. Use ground man/flag to direct traffic when it is present.
Pinch points to hands and body while moving lift	<ul style="list-style-type: none"> Keep hands inside lift when moving, use ground man to assist in checking clearances.
Pedestrian and Vehicle traffic entering work area	<ul style="list-style-type: none"> Set cones/barricades to prevent pedestrian traffic. Use ground man/flag to direct traffic when it is present.
Flying debris from use of cordless drill to modify/ mount material	<ul style="list-style-type: none"> Wear safety glasses and gloves. Wear sealed eye wear/face shield when drilling above eye level (or when required).
Noise when drilling	<ul style="list-style-type: none"> Wear ear plus or equivalent hearing protection.
Bumps, cuts, scrapes to hands from tool use	<ul style="list-style-type: none"> Wear general work gloves. Keep hands clear of pinch points.
Pinch points between conduit/objects	<ul style="list-style-type: none"> Wear general work gloves. Keep hands clear of pinch points.
Bumps, cuts and scrapes to hands, when pulling wire; from pinch points	<ul style="list-style-type: none"> Wear general work gloves. Keep hands clear of between wire and conduit to avoid hands getting pulled in when feeding wire.
Strain when pulling wire	<ul style="list-style-type: none"> Do not overexert and get help if wire is too hard to pull. Use pulling soap as needed to lubricate wire. Review Safety Data Sheets (SDS) prior to first use Wear required PPE and safety glasses.

Task: Installation of Electrical Conduit, Switches, Receptacles and other Electrical Current Devices

HAZARDS	CONTROLS
Potential electric shock	<ul style="list-style-type: none"> Use proper tools and testing techniques and proper test equipment. De-energize load center while making final connection.

	<ul style="list-style-type: none"> • Check continuity of wires for shorts before energizing. • Check for proper voltage and amp draw. • Energize under no load situation. • Wear nonconductive gloves.
Slips, trips, falls	<ul style="list-style-type: none"> • Ensure proper illumination is present. • Keep housekeeping clean. • Wear lace up safety shoes at all times. • Ensure shoelaces are properly tied. • Watch where you are walking. • Do not run or rush. • Ensure pits are covered.
Falls from ladders	<ul style="list-style-type: none"> • Choose the right ladder type and the appropriate duty rating ladder for the task. • Do not use Type III (Light Duty) ladders. • Do not exceed ladder duty rating. • Inspect ladder before use. • Insure ladder is clean and free of defects before use. • Maintain 4:1 slope ratio with straight ladders. • Remove any oil or grease from the soles of your shoes before using the ladder. • Use 3 point contact while climbing. • Extend ladder 36" if climbing onto another elevated surface. • Do not use top step of stepladder and top 3 rungs of straight ladder. • Secure all extension ladders from movement. • Ensure ladder is not placed on a loose object or on uneven footing. • To prevent slipping, equip the ladder with non-slip points or safety shoes, if practical. If not, secure the ladder firmly by lashing it with rope or by other means. • Do not lean ladders against a moveable objects or against window sashes. • Fasten a board securely across the top of the ladder to give a bearing on each side of the window. • See that a helper stands guard in dangerous circumstances, as when a ladder is in front of a door. If there is a danger of a person or vehicle bumping into the ladder, have a helper stand guard or rope off the space with caution tape around the ladder. • Do not over reach and do not push or pull if it will cause the ladder to move. If you are far away from something you have to reach, take time to move the ladder closer. • Do not straddle the space between the ladder and another object.

Task: Install Conduit/Equipment/Material and Wire

HAZARDS	CONTROLS
Slips/trips/falls due to poor housekeeping	<ul style="list-style-type: none"> • Maintain active housekeeping; keep tools and material out of travel path. Perform post job clean up.
Lifting/moving material/ strain from improper lifting	<ul style="list-style-type: none"> • Lift with legs and not back, bend at the knees; get help to lift material as needed.
Bumps, cuts and scrapes to hands from tool use	<ul style="list-style-type: none"> • Wear general work gloves.

Fall from ladder used to access elevated work	<ul style="list-style-type: none"> • Choose the right ladder type and the appropriate duty rating ladder for the task. • Do not use Type III (Light Duty) ladders. • Do not exceed ladder duty rating. • Inspect ladder before use. • Insure ladder is clean and free of defects before use. • Maintain 4:1 slope ratio with straight ladders. • Remove any oil or grease from the soles of your shoes before using the ladder. • Use 3 point contact while climbing. • Extend ladder 36" if climbing onto another elevated surface. • Do not use top step of stepladder and top 3 rungs of straight ladder. • Secure all extension ladders from movement. • Ensure ladder is not placed on a loose object or on uneven footing. • To prevent slipping, equip the ladder with non-slip points or safety shoes, if practical. If not, secure the ladder firmly by lashing it with rope or by other means. • Do not lean ladders against a moveable objects or against window sashes. • Fasten a board securely across the top of the ladder to give a bearing on each side of the window. • See that a helper stands guard in dangerous circumstances, as when a ladder is in front of a door. If there is a danger of a person or vehicle bumping into the ladder, have a helper stand guard or rope off the space with caution tape around the ladder. • Do not over reach and do not push or pull if it will cause the ladder to move. If you are far away from something you have to reach, take time to move the ladder closer. • Do not straddle the space between the ladder and another object.
Physical hazards from use of cordless drill to modify/ and or mount hardware/material	<ul style="list-style-type: none"> • Inspect tools before use. • Wear safety glasses and gloves. • Wear sealed eye wear/face shield when drilling above eye level. • Wear hearing protection when operating. • Keep hands and body clear of line of fire.
Injury to hands while pulling/installing wire	<ul style="list-style-type: none"> • Wear general work gloves. • Keep hands clear of between wire and conduit to avoid hands getting pulled in when feeding. • Use pulling soap as needed to lubricate wire.

Task: Excavation Activities

HAZARDS	CONTROLS
Risk of Injury to bystanders	<ul style="list-style-type: none"> • Work area should be delineated off from Un-Authorized personnel & signs posted. • All personnel must use caution when working around excavation equipment and open excavations. • Assigned PPE (e.g., safety eye wear, ear plugs, etc.) shall be worn by adjacent personnel, as required by their proximity to the work task.
Risk of hitting underground utilities	<ul style="list-style-type: none"> • Review all area underground utility drawings with BPS construction administrator. • Have the area of excavation surveyed with a ground penetrating radar and Electro-magnetic RF instrument prior to the commencement of digging.

	<ul style="list-style-type: none"> • Obtain an Excavation Permit from BPS prior to the commencement of any digging activities (exception hand digging, <12”). • Use hand excavation techniques around all known utilities. • Ensure all areas to be excavated has been cleared of potential utilities.
Inhalation hazards from dust from excavation activities	<ul style="list-style-type: none"> • Wear appropriate PPE to protect from dust. This is usually a half-face air-purifying respirator with dust cartridges.
Risk of exposure to physical hazards from moving machinery	<ul style="list-style-type: none"> • Personnel on the ground should keep away from the work area and backhoe unless they are required for the task. • Do not approach heavy equipment without eye contact/acknowledgement from backhoe operator. • Use standard hand signals when noise levels inhibit auditory communication. • Ensure that all heavy machinery have audible back-up signals. • NEVER work alone when operating heavy machinery. • Avoid moving parts of machinery. Keep fingers, hands, and arms away from backhoe bucket and other pinch points. • Wear leather gloves when using hands for activities other than sampling, hard hat, safety glasses, and steel-toed boots.
Noise	<ul style="list-style-type: none"> • Wear ANSI approved safety ear plugs or muffs when working close enough to backhoe that you have to speak louder than your normal voice to someone standing next to you.
Cave in	<ul style="list-style-type: none"> • Ensure all activities are supervised by a trained and appointed competent person. • Ensure excavation is properly sloped or shoring is used if employees are to enter.

Task: Masonry Work

HAZARDS	CONTROLS
Tripping on scraps and debris	<ul style="list-style-type: none"> • Properly store all materials in work area. • Perform clean-up and housekeeping duties a minimum of once per day to remove all scraps and debris for the work area. • Remove all nails from form work immediately after stripping forms.
Exposure to particulates, concrete, and grout.	<ul style="list-style-type: none"> • Review Safety Data Sheets (SDS’s) for all chemicals being used and use the following PPE: _____
Pedestrian or vehicular traffic in work area.	<ul style="list-style-type: none"> • Provide spotters and signal persons where necessary to control traffic and back-up concrete trucks during pours.

Task: Working in Roads and Parking Lots

HAZARDS	CONTROLS
Possible pedestrian or vehicle traffic in work area	<ul style="list-style-type: none"> • Secure work area to keep unauthorized personnel out of work area. • Schedule work in such a manner to limit exposure to people and property.
Struck by Vehicles	<ul style="list-style-type: none"> • Signs shall be used to slow/control vehicular traffic. • Signal/traffic/flagman personnel will wear reflective vests. • Flaggers will be trained and comply with CALOSHA Title 8 Section 1599, in the fundamentals of flagging moving traffic before being assigned as flaggers. Training requirements will be consistent with the California

	<p>Manual on Uniform Traffic Control Devices, Chapter 6 and will be provided by a person with the qualifications and experience necessary to effectively instruct employees and will be available onsite.</p> <ul style="list-style-type: none"> • Only trained and authorized employees will work in the roadway.
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Task: Roof Replacement

HAZARDS	CONTROLS
Falls from rooftop	<ul style="list-style-type: none"> • Wear hard hat and fall protection as required. • Develop site specific fall protection plan. • All employees have been training in the use, limitations and inspections of personal fall arrest equipment, fall restraint techniques, and the use of warning line systems.

Task: Painting

HAZARDS	CONTROLS
Inhalation of paint, lung damage	<ul style="list-style-type: none"> • Paint in well ventilated areas. • Wear a respirator when in areas with limited ventilation. • Review Safety Data Sheet (SDS).
Skin irritation	<ul style="list-style-type: none"> • Wear long-sleeved, loose fitting clothing covering exposed skin. • Wear gloves that are impervious to paint and thinners. • Wash exposed areas thoroughly with soap and water after handling. • Do not wash skin or hands with paint thinner or lacquer thinner, use hand cleaner.
Eye irritation	<ul style="list-style-type: none"> • Wear goggles that seal eyes from paint.
Fall from ladder or scaffold	<ul style="list-style-type: none"> • Receive ladder and mobile scaffold user training prior to use. • Inspect ladders and scaffolds for defects prior to use. • Following manufacturer's instructions for ladder and scaffold use. • Do not overreach when working off a ladder or scaffold.

Task: Demolition

HAZARDS	CONTROLS
Asbestos and Lead	<ul style="list-style-type: none"> • Asbestos and lead reports will be reviewed and all hazardous materials will be identified prior to the start of any demolition work. • Asbestos and lead work plans will be submitted detailing work procedures, controls, and PPE for all work which may disturb asbestos and lead containing materials.
Fire	<ul style="list-style-type: none"> • All utilities shall be located, shut off, capped, or otherwise controlled. • Fire extinguishers shall be available on site and Emergency Services numbers shall be posted.
Contact with energized utilities	<ul style="list-style-type: none"> • Review demo plan with BPS and verify all utilities have been de-energized prior to any demolition work. • Follow Lockout/Tag out (LOTO) procedures as described in BPS Form 2885 and company LOTO program.

Cutting/Welding Operations	<ul style="list-style-type: none"> • A BPS Hot Work Permit will be completed prior to starting any hot work. • During welding/cutting operations, proper welding gloves and a full-face, and UV-ray protective shield shall be worn to prevent injuries to the operator. • When practical, the object to be welded, cut, or heated will be moved to a designated safe location away from flammable liquids and other combustibles. If the object cannot be moved, positive means will be taken to confine the heat, sparks, and slag. • A 20 lb., ABC dry chemical extinguisher (or equivalent) will be immediately available in the work area and must be maintained in a state of readiness for instant use. • Garbage and trash shall not be allowed to accumulate on the premises, as it may be ignited by the sparks or slag. • When welding is being performed on a higher level where there is an exposure to workers below, the area directly below the welding shall be cleared and marked as a "Do Not Enter Zone", to protect any workers passing underneath from being hit by sparks or slag. • A fire watch shall be maintained at least 30 minutes after the hot work is completed. • Welding/cutting operations shall be performed by trained, certified workers.
Eye injury from projectiles	<ul style="list-style-type: none"> • All workers performing demolition activities will wear safety glasses and face shield as required.
Cuts, scraps, and punctures	<ul style="list-style-type: none"> • All workers will wear leather glove protection and appropriate clothing during demolition activities.
Inhalation of dust.	<ul style="list-style-type: none"> • Water will be used to minimize dust generation. • All workers will wear an air purifying respirator or dust mask as necessary during demolition.

Task: Paving

HAZARDS	CONTROLS
Slips, trips, falls	<ul style="list-style-type: none"> • Keep housekeeping clean. • Wear lace up safety shoes at all times. • Watch where you are walking. • Do not run or rush. • Ensure pits are covered.
Heat stress	<ul style="list-style-type: none"> • Train employees in company heat stress procedures. • Keep supplies of clean cool water within work area. • Drink at least two glasses of water every hour particularly in hot weather. • Rotate staff if able or ensure adequate breaks. • Take preventative cool-down rest in the shade to protect from overheating. • Take adequate breaks per CALOSHA Title 8 §3395. Heat Illness Prevention.
Working with hot mix/asphalt	<ul style="list-style-type: none"> • Long sleeved clothing, protective footwear. • Handle hot mix with shovel or mechanical aid. • No direct contact. If need to touch hot mix, wear protective gloves. • Wear thermal protective gloves as required.

Manual handling asphalt	<ul style="list-style-type: none"> • Use skid steer loader to pick up and spread asphalt when possible. • Ensure shovels and rakes are in good condition before use. • Warm up and stretch muscles prior to work. • Place feet apart and assure adequate footing. • Use legs to drive shovel into mix. • Bend your legs, keep your back straight. • Hold shovel close to body. • Shift feet with load, do not twist body. • Do not overload the shovel beyond your physical capacity. • Keep shovel and rake lubricated with release agent. • Use shovel to spread large amounts of asphalt prior to raking; do no push large amounts of asphalt with rake.
Fumes	<ul style="list-style-type: none"> • Ensure mix is at the specified temperature to avoid excessive fuming. • Do not use excessive release agent in hopper or in truck bodies. • Wear supplied P2 N95 respirators as required.
Moving parts / entanglement – paver	<ul style="list-style-type: none"> • Do not clear hopper with shovel while slat conveyor is operational. • Do not raise or lower hopper wings without first checking for the presence of workers. • Stay clear of augers. • Spotter required to watch for vehicle movement whilst crew member cleans front of paver. • Wear thermal protective gloves as required.
Roller traffic (when heating joints)	<ul style="list-style-type: none"> • Carry out with two people wherever possible. • Wear reflective vest. • Heat from side of roller wherever possible. • Roller to maintain a min 1.5 m clearance. • Roller to travel no quicker than ground personnel. • Roller to stop when directed or if contact lost with ground personnel.
Burns from hot tools, paver or other hot surfaces	<ul style="list-style-type: none"> • Do not touch any part of the paver which may be hot. • Wear thermal protective gloves if contact with hot tools or paver surface is necessary.
Burns, fire from gas torch (used to heat joints)	<ul style="list-style-type: none"> • Complete BPS Hot Work Permit. • Ensure regulator and hose connections are sound and well maintained. • Point gas torch away from personnel when lighting and when alight. • Do not leave torch unattended when gas torch is alight. • Have a monthly inspected and annually serviced fully charged fire extinguisher in the immediate work area. • Crew members must be familiar with location of nearest extinguishers and trained in its use. • Maintain fire watch for 30 minutes after torch activities.
Struck by machinery	<ul style="list-style-type: none"> • Wear high visibility vest. • Check for oncoming vehicles or plant prior to moving. • Remain alert to vehicle and plant movements around you. • Do not walk behind reversing plant. • Remain clear of paver and trucks if your presence is not required. • Do not walk between reversing trucks and the paver. • Remain in operator's view. • Do not rely on operators to see you, remain vigilant. • Do not use mobile phone.

Task: Lifting / Crane Use

HAZARDS	CONTROLS
Possible pedestrian or vehicle traffic in work area	<ul style="list-style-type: none"> Secure work area as appropriate to keep unauthorized personnel out of the lifting zone. Position crane and delivery truck in such a manner to limit exposure to people and property.
Crane or rigging failure	<ul style="list-style-type: none"> Submit BPS lift plan with crane ratings, load charts, rigging diagrams, crane certifications, and operator certification. Review all crane and rigging safety requirements prior to lift. Verify weight of items to be lifted and distance from center pin of crane. Daily inspections of the crane will be performed and documented.
Workers struck by load	<ul style="list-style-type: none"> Only workers trained and authorized to perform rigging and signal activities will be involved in the lift. Signal person wear a high visibility vest and remain in visual or radio contact with crane operator at all times. Wear hard hat.

Task: Concrete / Form Work

HAZARDS	CONTROLS
Pedestrian or vehicular traffic in work area	<ul style="list-style-type: none"> Provide spotters and signal persons where necessary to control traffic and back-up concrete trucks during pours.
Worker impalement on rebar	<ul style="list-style-type: none"> Steel plated rebar caps will be placed on all vertical and horizontal rebar.
Strains, sprains, cuts and lacerations from installing rebar and forms	<ul style="list-style-type: none"> Use leather gloves when handling rebar and tie-wire. Use legs to lift, do not bend at the waist, team lift if needed Use proper hand placement on rebar to avoid pinching when installing rebar.
Struck-by/Crushed by Forms being placed	<ul style="list-style-type: none"> Maintain eye contact with crane operator. Use tag lines to control form movement and placement.
Struck-by/Crushed by concrete truck	<ul style="list-style-type: none"> Setup safe access and barricade for concrete trucks. Use a spotter for concrete trucks. Wear high visibility reflective vests. Use chute man to swing concrete chute back & forth & signal concrete truck driver. Chute man needs to commute with rest of crew when moving chutes or repositioning truck.
Slips, trips, falls when placing concrete	<ul style="list-style-type: none"> Inspect work area, move material that may cause trips. Use mesh over rebar to cover holes produced by rebar. Exposed mesh will be trip hazards until concrete placed. Keep mesh ends tied down.
Tripping on scraps and debris	<ul style="list-style-type: none"> Inspect work area, move material that may cause trips prior to working. Properly store all materials in work area. Perform clean-up and housekeeping duties a minimum of once per day to remove all scraps and debris for the work area. Remove all nails from form work immediately after stripping forms.
Chemical burns from concrete	<ul style="list-style-type: none"> Use rubber gloves, safety glasses/face shields and wash off splattered concrete ASAP with fresh water or neutralizing solution.

Task: Concrete Cutting/Coring

HAZARDS	CONTROLS
Risk of Injury to bystanders	<ul style="list-style-type: none"> • Work area should be delineated off from un-authorized personnel & signs posted. • All personnel must use caution when in or around saw cutting areas • Assigned PPE (e.g., safety eye wear, ear plugs, etc.) shall be worn by adjacent personnel, as required by their proximity to the work task.
Risk of hitting underground utilities	<ul style="list-style-type: none"> • Complete a BPS Excavation Permit. • Ensure all areas to be cut, cored or drilled have been scanned.
Risks of injury from improper set up or operation	<ul style="list-style-type: none"> • All operators of this equipment shall be trained on that piece of equipment. • All connections, mountings, guards & controls on the equipment must be inspected prior to use. • All required guards shall be in place. • Inspect and test saw prior to use. • Make sure all manufacturer's protective devices (guards) are in place and operational. • Electric saws should be approved, double-insulated. If not, they should be properly grounded and plugged into a GFCI-protected outlet. • Blade shall be inspected for damage. • Ensure there has been an approved BPS Excavation/Penetration Permit briefing & permit is signed & on site. • The saw operator should use any auxiliary handles that are on the saw to maintain control. • Operator must wear proper PPE. (Face shield, safety glasses & hearing protection minimum).
Risk of exposure to noise and other physical hazards	<ul style="list-style-type: none"> • User shall wear safety glasses, a face shield, heavy duty gloves, and ear plugs.

Section 9.0 – Personnel Acknowledgement

By signing below, the undersigned acknowledges that he/she has read and reviewed the SSSP. The undersigned also acknowledges that he/she has been instructed in the contents of this document and understands the information pertaining to the specified work, and will comply with the provisions contained therein.

Personnel Acknowledgement			
Print Name	Signature	Company	Date

Any completed task hazard assessment for tasks not identified in the initial SSSP submittal shall be submitted for BPS review prior to start of the work.

LOCATION	HAZARD ANALYSIS COMPLETED BY:	DATE:
WORK ACTIVITY (Description/Location):		

EMPLOYEE		POSITION		EMPLOYEE		POSITION			
REQUIRED PERSONAL PROTECTIVE EQUIPMENT (Erase what does not apply)									
Gloves Hard Hat Safety Boots		Safety Glasses Reflective Vest Hearing Protection		Dust Mask Goggles Face Shield		Fall Protection Insulated tools Voltage rated Gloves		Arc rated Clothing HRC _____ Other: _____	
JOB STEPS		POTENTIAL HAZARDS			CONTROLS				
AREA HAZARDS					ACTIONS TO MITIGATE HAZARDS				

Project Management

BPS believes that Project Management consists of four major factors; identifying and managing customer expectations, clear communication and coordination with all parties, scheduling accurate and attainable milestones and most important accountability. Accurate information and flexibility are crucial to each of the above identified factors.



Let's Look at How Each of These Support our Project Management Functions!

EXPECTATIONS

BPS believes in actively listening to the customer to understand the project fully. These in-depth conversations allow for a design that truly embodies the customers' desires, budget and dreams! BPS does this because time has taught us that there is no greater recipe for disaster than expectations which have not been clearly identified, articulated and understood. Honest up-front communication is invaluable to reducing stress, containing costs, avoiding disappointments and ensuring the final proposal is exactly what the customer envisioned.

The list below, while not all encompassing, highlights some ways expectations are addressed and managed.

- **Scope of Work** – A detailed scope of work helps each party understand their responsibilities and expected project outcome.
- **Completion Timeframe** – BPS provides a detailed MS Project Schedule based upon projected start and/or end dates. Documenting milestones, deliveries and critical path identifiers, keeps all parties informed and focused on the ultimate end goal of a new playground area begin opened on time and without incident!
- **Playground Design** – Our customers deserve a design that is unique, engaging, cost-effective and compliant. BPS provides a site layout, 3d design, color options and additional information as required to clearly illustrate the result of the project.

COMMUNICATION

Communication of all types is of utmost importance to the success of any project. While each project is unique and will have its own individual requirements, the list below embodies some of the many ways BPS uses to communicate each phase of project development.

On-Site Meetings

- **Pre-Bid Meeting, Site Review** – Each of these is geared toward gathering knowledge that is crucial to the successful design and installation of the area. Site review can provide information not readily identified on paper (i.e., surrounding neighborhood aesthetics, access/egress requirements, potential utility lines and overhead obstructions)
- **Construction Meetings** – When required by the project or warranted due to size and/or scope – regular on-site Construction Meetings facilitate coordination with other trades, ensure scheduling milestones are on-track and identify any potential issues to be immediately addressed.
- **Final Acceptance and Walk Through** – BPS requires a final *walkthrough of each job regardless of size and scope*. This walk through allows us to interact with the customer and address work that has been performed. At this meeting the customer will be provided with any additional items per the contract (i.e., owner's kit, touch up paint, etc.) and will be required to sign off on the area as accepted.

Written Communications

- **Order Review** – Upon receipt of an order, BPS will provide the customer all information for final review and sign-off prior to order placement with the manufacturer. This will verify in writing color selections, job scheduling as well as provide the customer with point of contact information for the individuals/team assigned to complete the project.
- **Other Information** – As discussed in Scheduling below, BPS provides MS Project schedules (upon request), Final Sign-Off, Daily Reports and other written communications to inform our customers of job progress.

SCHEDULING

Effective scheduling is one of the most important tools used to ensure completion of each project. The parameters of each job dictate the amount of detail required for effective scheduling. Larger projects that span several weeks will require an in-depth look at milestones, inter-dependencies, resource allocation, simultaneous task completions and coordination of deliveries to ensure the installation proceeds in the most efficient manner.

Inclusive Design Essentials

Align inclusive play destinations with evidence-based design best practices that thoughtfully support the development of the **WHOLE** child and the **WHOLE** environment. These design essentials ensure that a developmentally robust and balanced assortment of activities meet the diverse needs of all children, including those with disabilities. As a National Demonstration Site for Inclusive Play, these elements create a high-quality play environment where both physical and social inclusion can occur at the highest level by meeting the **7 Principles of Inclusive Playground Design**®.

INCLUSIVE PLAY ESSENTIAL		FEATURES, BENEFITS & EXAMPLES	BENEFITS FOR THE WHOLE CHILD					INCLUSIVE DESIGN PRINCIPLE
			PHYSICAL	SOCIAL-EMOTIONAL	SENSORY	COGNITIVE	COMMUNICATION	
Music		Encourages collaboration, creativity, and age-appropriate activities for multi-generational users at any developmental stage Examples: MusicMakers, PlayAbilities Sensory Music, Switch Adapted Piano Panel, Drum Panel Activity, JamBox Activity, Freenotes Harmony Music, Whistle, Music Panel, Rain Wheel.						
Dramatic Play		Encourages imagination, creativity, symbolic thinking, and social dialogue through pretend play Examples: Telescope, Steering Wheel, Store Panel, Amaze Theater Panel, Hideaway Clubhouse, Mirror Panel, Firetruck Cab Attachment, Play Houses, etc.						
Graduated Levels of Physical Challenge		Supports the progression of physical skill development by incorporating play components that address the needs of beginning, intermediate, and advanced levels of skill through activities such as climbing and upper body events Examples: Arch Climber w/Adaptive Handholds (beginner); Horizontal Ladder (intermediate); Net Climber or Climber with dynamic movement in steps (advanced)						
Communication		Encourages language skills through motivating, collaborative and reciprocal activities with friends and family Examples: Telephone Tubes, Echo Chamber, Sign Language Panel, Tuba Talk						
Looping Patterns		Supports intuitive play patterns so that children can successfully engage in repetitive, active play to develop skills Examples: Transfer platforms or climbers should be positioned adjacent to slides to create a "looping" pattern						
Active vs. Passive Play Settings		Enhances play experiences through well-organized, easy-to-recognize areas while avoiding user conflict Examples: Position dramatic play activities near sand/water play, under decks, or away from high traffic areas. Use landscaping, color, or a variety of surfaces to create visual cues to define high traffic areas						
Slide Transfers		Assists individuals transferring out of wheelchairs and/or their caregivers onto slides and provides additional height Examples: Slide transfers should be considered for all slides accessible via ramp						
Ramp Access		Allows diverse users, adaptive equipment and caregivers access to social and physical play on the structure Examples: ADA Ramps						
Accessible Safety Surfacing		Creates accessible routes of travel to and throughout the play environment Examples: EWF, Tile, & Poured-in-Place Rubber						
Motion/Movement		Offer sensory rich feedback to provide vestibular and proprioceptive stimulation through spinning, sliding, rocking, and/or swinging elements Examples: Temple Trolley, Swizzler, Swirl with Me, Reflections Swing, Tweenmates/Totmates Swing, Air Walker, Rock N Wave, Roller Slide, Bounce Around, Spring Bouncers, Flying Saucer Swing, Spinning Seat						
Jump in Point		Offers passive areas for children to observe and understand the play activity prior to participating and help draw them into active play Examples: Take a Seat Panel, Table & Seat for 2, Single Seat, Potting Bench, Bench Seat, etc.						
Cozy Spot		Offers quiet or semi-enclosed places, such as under deck or crawl tubes, where children can seek sensory relief and retreat until ready to engage in play Examples: Crawl Tunnels, Funnel Chunnel, Climb & Discover Cave, Under-deck seating, Hideaway Clubhouse, etc.						
Seating		Offers clear visibility and supervision of activity areas Examples: Benches and Picnic Tables,						
Cooperative Play		Reinforces positive interactions between children through dynamic and fun experiences as they work together to drive the action or engage in the activity Examples: Selfie Swizzler, Selfie Swirl with Me, Rock and Wave, Tweenmates Swing, See Saw Bouncer						
Accessible Upper Body Event		Offers an equitable alternative to upper body/climbing equipment while still providing a rewarding fitness experience that promotes healthy physical activity Examples: Hand Pedaler, Roller Table, Pedal Pusher						
Half Activity/Balcony Panel		Provides adequate space underneath the panel to allow individuals using mobility devices to comfortably reach play activities while facing forward Examples: Word Scramble Panel, Accessible Music Panels, Balcony Deck with Ship's Wheel Panel, Driving Panel, Spin & Win, etc.						
Shade		Integrates a balance of sunlight exposure and relief from environmental conditions Examples: Roofs, Sail Canopy, SunShade, Trees, Shelters						

1 Be Fair

The play environment provides social justice by being equitable and usable by children of all abilities so they can enjoy their right to play.

Guidelines

- a. Provide appropriate surfacing and site design for physical access into and throughout the play environment so children can actively engage in social and physical play activities.
- b. Offer equitable opportunities for everyone to participate in a variety of developmentally appropriate forms of play.
- c. Promote an atmosphere of mutual respect and acceptance by providing integrated activities throughout the play environment that encourage exploration, problem solving and discovery.



Example

An accessible pathway to and throughout the play environment allows people of all abilities to participate in play.

2 Be Included

The play environment supports the participation of individuals with diverse abilities in social and physical activities for inclusive, multigenerational play.

Guidelines

- a. Organize the play environment to provide various types (physical, social, sensorimotor, constructive, etc.) and forms (autonomous, parallel, cooperative, etc.) of play so there is something fun for everyone.
- b. Provide a balanced variety and a continuum of developmentally appropriate physical and social activities, throughout the play environment, which are dynamic and accommodate individuals' diverse abilities.
- c. Provide choices in method of participation or use.
- d. Provide meaningful opportunities for inclusive, multigenerational play.



Example

Social gathering spaces under decks and along accessible pathways allow children of all abilities to be included.

3 Be Smart

The play environment allows children to effectively explore and participate in play at their own level.

Guidelines

- a. Design the play environment with a variety of multi-sensory features that are organized to provide meaningful cues
- b. Provide intentional multi-sensory (auditory, visual, tactile) stimuli through a variety of play activities.
- c. Offer opportunities for children of all abilities to access and engage in the play environment as independently as possible.

Example

Accessible transfer decks designed strategically with play activities like slides allow children with adaptive equipment to successfully engage in their natural play behaviors.



7 Principles of Inclusive Playground Design™

We believe play is essential for people of all ages and abilities

4 Be Independent

The play environment allows children to effectively explore and participate in play at their own level.

Guidelines

- a. Design the play environment with a variety of multi-sensory features that are organized to provide meaningful cues.
- b. Provide intentional multi-sensory (auditory, visual, tactile) stimuli through a variety of play activities.
- c. Offer opportunities for children of all abilities to access and engage in the play environment as independently as possible.

Example

Equipment, like ramps, and multisensory features in the environment allow children to effectively explore and participate in play more independently.



5 Be Safe

The play environment addresses current safety standards while providing developmental opportunities needed for exploration and challenge.

Guidelines

- a. Provide safer play activities and environments, through graduated levels of challenge, that allow children to explore, interact, and experience developmentally appropriate risk.
- b. Support children's emotional feelings of security so they are more likely to engage in play.
- c. Accommodate for comfortable supervision and ongoing maintenance.

Example

Benches placed throughout the play environment offer jump-in-points for kids while also promoting adult supervision.



6 Be Active

The play environment supports various degrees of physical and social participation in play while minimizing unnecessary fatigue.

Guidelines

- a. Allow individuals to maintain neutral body position so they can actively sustain their engagement in physical and social play.
- b. Include play activities that require reasonable operating forces and integrate alternatives to sustained physical effort or repetitive actions.
- c. Provide for a range of developmental opportunities for challenge to accommodate children's diverse physical characteristics.
- d. Offer balanced opportunities for social play throughout the play environment, by providing a variety of play activities at the ground level and under decks.



Example

Play equipment like the One-for-All swing provides support for children of all abilities to experience the joy of movement.

7 Be Comfortable

The play environment is usable for individuals with sensory needs, diverse body size, posture, mobility, and motor control.

Guidelines

- a. Provide play activities with comfortable approach and reach for a seated or standing child.
- b. Accommodate variations in gross and fine motor control for manipulation of play activities.
- c. Provide comfortable space for movement throughout the play environment for individuals with assistive devices and/or personal assistance.
- d. Provide a range of environmental conditions, like shade, to accommodate children's diverse comfort characteristics.



Example

Features like this accessible Fire Truck Cab allow children of all abilities to comfortably approach and reach the activity while the open space inside supports comfortable movement.



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NATIONAL DEMONSTRATION SITE NETWORK



Center for Outreach, Research & Education



NATIONAL DEMONSTRATION SITE NETWORK

Recognizing Communities for Turning Research Into Practice



Turning **research** into **practice**.®

We believe high-quality recreation environments play a critical role in promoting community health. Research indicates that when stakeholders are engaged in the planning process, evidence-based design principles are implemented with the built environment, and supplemental programming is offered to further enhance user experiences, then positive outcomes occur.

PlayCore's Center for Outreach, Research, and Education (CORE) leads the National Demonstration Site Network as an important effort for raising national awareness and helping local communities share the positive impact they are making on community health and wellness. The initiative is also important for convening a network of community leaders committed to sharing insights, information, and reporting outcomes. National Demonstration Sites illustrate community vitality across a variety of influences, including social-emotional, environmental, health, community engagement, public services, and educational opportunities.

National Demonstration Sites (NDS) exemplify evidence-based best practices in design and implementation, support health-related initiatives, and provide meaningful ways for community stakeholders to gather data about the sites' impact on the community. There are five NDS programs that help communities turn research into practice in local park destinations. Choose to utilize one or a combination of NDS designations to thoughtfully support playful pathways, nature play, adult fitness, youth physical activity, and inclusion in outdoor play and recreation settings.



The purpose of **NatureGrounds** is to create a dramatic shift in the standard playground development process by deliberately designing nature back into the everyday spaces of childhood, not only to benefit children's play, but also to engage communities in working together to deliver high-quality play experiences across generations. Research has proven that designing play environments that integrate the living landscape with manufactured equipment results in increased play value, higher levels of physical activity, social interaction, and improved environmental sustainability.

PlayCore has partnered with the Natural Learning Initiative, College of Design, NC State University, to help professional and community champions bring "nature to people" in an effort to reconnect children to nature to support healthy human development. The multiple benefits of a NatureGrounds play and learning environment include: play value, child development, health benefits, and environmental sustainability.

Naturalized playgrounds have become sought out destinations that provide visual interest, shade, and comfort resulting in sustained repeat visits, a relaxed and playful social atmosphere, and growth of community social capital. These well-designed playgrounds offer rich outdoor education and programming opportunities for both schools and parks.

Best Practice Implementation:

- Locate playground in relation to existing site features and surroundings such as mature trees and topography.
- Design entrances, pathways, and boundaries to enhance naturalization and connectivity.
- Integrate planting pockets (trees, shrubs, grasses) into the play environment as part of the play experience.
- Select child-friendly plants to provide additional play value using the Plant Database at playcore.com to offer variety, seasonal change, wildlife enhancement, and/or play props.



A generation ago playing outdoors in nature was usually taken for granted, but times have changed. Now, nature must be deliberately designed back into children's lives."

- Robin Moore, DiplArch, MCP, Hon. ASLA



Research & Programming
in partnership with:



Research demonstrates that **Outdoor Adult Fitness Parks** provide a variety of meaningful outcomes to communities and can serve as critical health solutions by offering new ways to make physical activity more available, accessible, affordable, and enjoyable.

PlayCore partnered with Dr. Michael Suk, Chairman of Orthopaedic Surgery at Geisinger Health System; Dr. Gary Liguori, Dean of College of Health Sciences, University of Rhode Island; and Dr. Thom McKenzie, Professor Emeritus, San Diego State University to develop evidence-based guidelines for meaningful outdoor adult fitness destinations.

This designation recognizes communities that advocate for and utilize Outdoor Adult Fitness Parks as critical health solutions for improving health and overall wellness through a well-rounded workout and reduce sedentary lifestyles. Adult Fitness National Demonstration Sites align to health benefits and total body fitness that offer users of all levels a well-rounded workout. Together, these elements can help people adhere to routines that develop overall health and wellness, and engage participants in substantially more moderate to vigorous physical activity.

Best Practice Implementation:

- Identify user groups, location/context, site-specific amenities, and programming opportunities.
- Select a design typology that meets the space requirements, usage goals, and site-specific needs.
- Offer a variety of aerobic, muscle/strength, core, balance, and flexibility equipment to provide a well-rounded fitness routine.
- Adhere to safety and industry standards in regards to surfacing, accessibility, signage, and equipment configuration.



As our country continues to struggle with obesity and chronic disease, outdoor adult fitness parks are a sustainable option with measurable impact across the broad spectrum of adult health and wellness."

- Gary Liguori, PhD, University of Rhode Island



Research & Programming
in partnership with:



Dr. Michael Suk



Dr. Gary Liguori



Dr. Thom McKenzie

The purpose of **Play On!** is to promote physical activity and fun through the use of thoughtfully designed outdoor play environments and creative playground learning activities. The Play On! program provides educators and recreation professionals evidence-based best practices to promote fitness and health — maximizing the value and potential of school and community playgrounds.

PlayCore is proud to partner with physical activity experts, SHAPE America, to provide a valid solution for intentionally increasing physical activity on playgrounds through six key elements of play to promote fitness. Play On! can be used to enhance recess, physical education, before/after school programs, special events, camps, and other programming efforts that focus on combating sedentary lifestyles and childhood obesity.

The Play On! Program contains 125 activities for grades PreK-5 that align with national physical education standards. The program includes assessment tools, equipment lists, playground funding opportunities, send-home family resources, and design best practices.

Play On! can become a vital component in efforts to strengthen, educate, and build healthier communities through play and recreation.

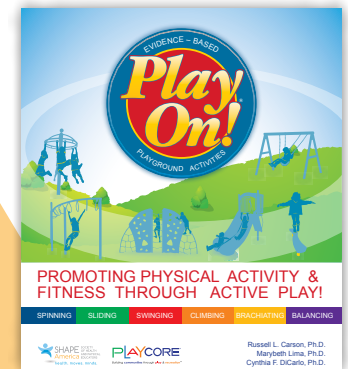
Best Practice Implementation:

- Incorporate six key elements of play that promote your physical activity — balancing, brachiating, climbing, spinning, sliding, and swinging.
- Provide a developmentally appropriate progression of skill opportunities through beginning, intermediate, and advanced elements.
- Design the layout of the space to encourage movement through running, chasing, and exploring.
- Program the environment utilizing Play On! learning activities and additional loose parts to encourage active play and social interaction.



It is critical to advocate for play initiatives, effectively communicate the developmental benefits of playgrounds, and demonstrate how investing in play can result in healthy outcomes."

- Russ Carson, PhD, Co-author of Play On!



Research & Programming
in partnership with:



The purpose of PlayCore's comprehensive inclusive play programs and unique design philosophy is to provide high-quality outdoor play experiences for people of all ages and abilities that develop the whole child, address the whole environment, and ultimately, benefit the whole community.



PlayCore is proud of our national partnership with leading experts at Utah State University's Center for Persons with Disabilities and Lekotek, which has led to championing thousands of inclusive play initiatives across the world.

Our evidence-based design and programming considerations innovate outdoor environments where both physical and social inclusion can occur. The design guidebook, **Me2: 7 Principles of Inclusive Playground Design®**, is a one-of-a-kind resource to help communities move beyond minimum accessibility guidelines to intentionally increase usability—creating destinations that are more usable, by more people, to the greatest extent possible. These principles are the only evidence-based guidelines that are tailored specifically to address childhood experiences in outdoor play environments.

2 Play Together®: Fostering Friendships Through Inclusive Play provides programmers with strategies, tips, and playground activities to create awareness, break down barriers, and foster friendships through inclusive play experiences.

Inclusive play is our passion and purpose. Together we can put research into action and advocate for inclusive, multigenerational play destinations across our nation.

Best Practice Implementation:

- Address local priorities, create awareness, and enlist community partners that share your mission and goals.
- Provide a developmentally robust and balanced assortment of playground activities that meet the diverse physical, social-emotional, sensory, cognitive, and communicative needs of all children, including those with disabilities.
- Apply the 7 Principles of Inclusive Playground Design® to the overall environmental design.
- Offer programming, activities, special events, or other initiatives to further promote meaningful inclusion and impact community outcomes.



Providing intergenerational, inclusive play ensures that all people experience the satisfaction of contributing to meaningful play and reap the lifelong developmental, physical, and social benefits of inclusion."

- Keith Christensen, PhD, Utah State University's Center for Persons with Disabilities



Research & Programming in partnership with:



National Demonstration Site Benefits

High-quality play and recreation destinations are lasting evidence of a community's dedication to supporting health and wellness and providing meaningful outdoor environments that turn research into practice. Intentionally aligning to National Demonstration Site design criteria ensures that your community can maximize the value of your investment by implementing scholarly best practice research to activate meaningful play and recreation spaces.



Recognition & Advocacy

- Complimentary signage installed at your site to commend your leadership, create awareness, and fuel advocacy efforts
- A Marketing Tool Kit to promote your site to the public and maximize data collection engagement with visitors
- Recognition on the National Demonstration Site Map, an online resource to help others find meaningful play and recreation spaces in their community
- A PlayCore National Demonstration Site project of excellence award for display

Data Collection & Outcomes Sharing

- Participation in ongoing data collection and reporting to demonstrate community outcomes
- On-site signage with research QR Code directing visitors to share their experiences and report usage patterns

Network Engagement

- Opportunity to network, learn, and share outcomes across a growing number of National Demonstration Site communities and champions

Turn Research Into Practice — Become a National Demonstration Site

1 Design

Work with a local, National Demonstration Site trained representative to design your site to implement evidence-based design criteria.

2 Collaborate

Identify a Key Informant (the individual with the most knowledge of the project) to participate in outcomes sharing and network engagement.

3 Engage

Create positive attention through collaborative marketing and/or programming, and encourage community members to share their experiences using onsite data collection methods.



NDS Spotlight

The City of Chattanooga opened the second Miracle League field in the state of Tennessee. The Miracle League field features a specially-designed and built baseball diamond for children of all abilities. The inclusive play destination features multisensory experiences, and custom themed play structures designed to meet the 7 Principles of Inclusive Playground Design. This destination is a stellar example of a project of excellence, meeting the National Demonstration Site design criteria for inclusion and youth physical activity.





Building communities through play & recreation™

**For more information on building healthy
communities through play & recreation:**

playcore.com | (877) 762-7563