

VENDOR

State of West Virginia
Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

# Request for Quotation

DNR209040

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	1	

ADDRESS CORRESPONDENCE TO ATTENTION OF

FRANK WHITTAKER 304-558-2316

\*702142549 304-428-3000 DAVIS ATHLETICS LLC 2325 LIBERTY ST

PARKERSBURG WV 26101

DIVISION OF NATURAL RESOURCES
MONCOVE LAKE STATE PARK
ATTN: PARK SUPERINTENDENT
POST OFFICE BOX 224
GAP MILLS, WV
24941 304-772-3450

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# GENERAL TERMS & CONDITIONS REQUEST FOR QUOTATION (RFQ) AND REQUEST FOR PROPOSAL (RFP)

- 1. Awards will be made in the best interest of the State of West Virginia.
- 2. The State may accept or reject in part, or in whole, any bid
- 3. All quotations are governed by the West Virginia Code and the Legislative Rules of the Purchasing Division.
- 4. Prior to any award, the apparent successful vendor must be properly registered with the Purchasing Division and have paid the required \$125 fee.
- 5. All services performed or goods delivered under State Purchase Order/Contracts are to be continued for the term of the Purchase Order/Contracts, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise available for these services or goods, this Purchase Order/Contract becomes void and of no effect after June 30
- 6. Payment may only be made after the delivery and acceptance of goods or services
- 7. Interest may be paid for late payment in accordance with the West Virginia Code
- 8. Vendor preference will be granted upon written request in accordance with the West Virginia Code
- 9. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 10. The Director of Purchasing may cancel any Purchase Order/Contract upon 30 days written notice to the seller
- 11. The laws of the State of West Virginia and the *Legislative Rules* of the Purchasing Division shall govern all rights and duties under the Contract, including without limitation the validity of this Purchase Order/Contract
- 12. Any reference to automatic renewal is hereby deleted 
  The Contract may be renewed only upon mutual written agreement of the parties
- 13. BANKRUPTCY: In the event the vendor/contractor files for bankruptcy protection, this Contract may be deemed null and void, and terminated without further order
- 14. HIPAA BUSINESS ASSOCIATE ADDENDUM: The West Virginia State Government HIPAA Business Associate Addendum (BAA), approved by the Attorney General, and available online at the Purchasing Division's web site (http://www.state.wv.us/admin/purchase/vrc/hipaa.htm) is hereby made part of the agreement. Provided that, the Agency meets the definition of a Cover Entity (45 CFR §160 103) and will be disclosing Protected Health Information (45 CFR §160 103) to the vendor.
- 15. WEST VIRGINIA ALCOHOL & DRUG-FREE WORKPLACE ACT: If this Contract constitutes a public improvement construction contract as set forth in Article 1D, Chapter 21 of the West Virginia Code ("The West Virginia Alcohol and Drug-Free Workplace Act"), then the following language shall hereby become part of this Contract: "The contractor and its subcontractors shall implement and maintain a written drug-free workplace policy in compliance with the West Virginia Alcohol and Drug-Free Workplace Act, as set forth in Article 1D, Chapter 21 of the West Virginia Code The contractor and its subcontractors shall provide a sworn statement in writing, under the penalties of perjury, that they maintain a valid drug-free work place policy in compliance with the West Virginia and Drug-Free Workplace Act. It is understood and agreed that this Contract shall be cancelled by the awarding authority if the Contractor: 1) Fails to implement its drug-free workplace policy; 2) Fails to provide information regarding implementation of the contractor's drug-free workplace policy at the request of the public authority; or 3) Provides to the public authority false information regarding the contractor's drug-free workplace policy."

### INSTRUCTIONS TO BIDDERS

- 1. Use the quotation forms provided by the Purchasing Division
- 2. SPECIFICATIONS: Items offered must be in compliance with the specifications. Any deviation from the specifications must be clearly indicated by the bidder. Alternates offered by the bidder as EQUAL to the specifications must be clearly defined. A bidder offering an alternate should attach complete specifications and literature to the bid. The Purchasing Division may waive minor deviations to specifications.
- 3. Complete all sections of the quotation form
- 4. Unit prices shall prevail in case of discrepancy
- 5. All quotations are considered FOB destination unless alternate shipping terms are clearly identified in the quotation
- **6. BID SUBMISSION:** All quotations must be delivered by the bidder to the office listed below prior to the date and time of the bid opening. Failure of the bidder to deliver the quotations on time will result in bid disqualifications: Department of Administration, Purchasing Division, 2019 Washington Street East, P.O. Box 50130, Charleston, WV 25305-0130



State of West Virginia Department of Administration Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

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### MONCOVE LAKE STATE PARK PLAYGROUND SPECIFICATIONS - CONTD.

All playground equipment and engineered wood fiber must meet the following requirements:

- Compliance with U.S. Consumer Product Safety Commission, Handbook for Public Playground Safety.
- Compliance with ASTM Standard F 1487.
- Compliance with Architectural and Transportation Barriers Compliance Board, Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Play Areas.

Vendors must submit the following attachments:

- Complete manufacturer's parts specifications and warranties.
- Layout drawing to scale of the proposed play structure or equipment
- ASTM and CPSC Statement of Compliance

Additionally, all playground equipment must meet the following requirements:

- Decks must be one piece steel and powder coated.
- Connectors must be direct-bolt and bolt locations should be pre-drilled
- Color scheme for all equipment must be green plastic, brown uprights, beige metal and brown decks.

### Warranties:

 All equipment and engineered wood fiber must be guaranteed to be free of defects in workmanship and material for a minimum of one year from date of acceptance. However, if manufacturer warranty periods are longer than the required minimum one year warranty, those warranties shall apply.

The award may be split if it is in the best interest of the West Virginia Division of Natural Resources.

tem No.	Quantity	Description	Unit Price	Amount
		To supply playground equipment to offer play activities for children ages five (5) to twelve 12) at Moncove Lake State Park, Gap Mills, West Virginia. There will be a total of two separate playground areas for which playground equipment is to be supplied. Park personnel will install all playground equipment.  PICNIC AREA PLAYGROUND		
1	1	GameTime PrimeTime playground structure and components, Model #11817 (modified Straight Arrow), or equal. Uprights must be constructed of powder-coated aluminum with a minimum OD of 3 1/2". Equipment must have a ASTM Minimum Use Zone of 49'9" x 31'3". The equipment must include the following components:		
		GameTime curved molded slide. Slide must be approximately 3' in length.  GameTime spiral molded slide with hood or equal. Slide must be approximately 6' in length.		
		GameTime double molded slide, or equal. Slide must be approximately 5' in length.  GameTime vertical climbing wall or equal. Wall		
		must be approximately 6' in height.  GameTime rock wall climber with molded in handholds or equal. Wall must be approximately 5 in height.	1	
		GameTime DNA vertical climber. Climber must be steel construction and must be approximately 6' in height.		

tem No.	Quantity	Description	Unit Price	Amount
		GameTime rung ladder or equal. Ladder must be steel construction and must be approximately 5' in height.		
		GameTime funnel bridge or equal.		
		GameTime single seat or equal.		
		GameTime cosmix climber or similar sideways climber or equal. Climber must be approximately 5' in height.		
		GameTime straight horizontal loop ladder with D- ring style or equal.		
		GameTime therapeutic rings or equal.		
		GameTime turning bar or equal.		
		GameTime crunch bar or equal		
		GameTime shingle style molded roof for one 36" deck or equal.		
2	1	GameTime, Primetime arch swing frame, Model #12583, or equal. Swing must have a minimum 3 1/2" OD.		
3	1	GameTime, Primetime arch swing add-a-bay, Model #12584, or equal Bay must have a minimum 3 1/2" OD and an ASTM minimum use zone of 37'2" x 32'1" Equipment must include the following components:		
		Minimum of two belt seat swings with stainless steel chain and attachments;		
		Minimum of two enclosed toddler seats with stainless steel chain and attachments; and		
		Minimum of 3-1/2" OD galvanized steel uprights and top rail.		

tem No.	Quantity	Description	Unit Price	Amount
		F.O.B. Destination. Freight and/or delivery charges		
		are to be included in the price of the goods.		
A	1	Delivery must be made within ninety (90) days of purchase order award.		
4	l .	pulchase order award.		
:		SHELTER #1 PLAYGROUND AREA		
5	1	GameTime, wave zip slide F/S, Model #18395, or equal. Slide must be approximately 6' in length and have a minimum ASTM use zone of 27'2" x 15'4".		
6	. 1	GameTime, sky runner (F/S),Model #6200, or equal. Runner must have a minimum ASTM zone of 18'2" diameter.		
7	1	GameTime, Primetime swing frame, Model #12583, or equal. Frame must have a minimum of 3 1/2" OD.		
8	1	GameTime, Primetime Swing Add-A-Bay, Model #12584, or equal. Bay must have a minimum 3 1/2" OD and an ASTM minimum use zone of 37'2" x 32'1". Equipment must include the following components:		
		Minimum of four belt seat swings with stainless steel chain and attachments; and		:
		Minimum 3-1/2" OD galvanized steel uprights and top rail.		
9	107	GameTime playcurb, Model #4850, or equal. PlayCurb must be a minimum of 8" and must be black in color.		
10	2	Game Time , accessible playcurb, Model #4854, or equal. Playcurb must be black.		
11 12	4,900 Sq. Ft. 1 Roll	Engineered wood fiber. Or equal. Fiber must be compacted at 8" in depth. Geo-Textile fabric 1,125 Sq Ft Roll or equal.		
13	l Roll	Geo-Textile fabric 2,250 Sq Ft Roll or equal.		

tem No.	Quantity	Description	Unit Price	Amount
14	1	F.O.B. Destination Freight and/or delivery charges are to be included in the price of the goods. Delivery must be made within ninety (90) days of purchase order award.		
			TOTAL	39,650

Agency							_
REQ.P	O#_	DUR	20	٩	0	40	9

### BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, th	ne undersigned,
of,	, as Principal, and
of,	, a corporation organized and existing under the laws of the State of
with its principal office in the City of	, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of	(\$) for the payment of which,
well and truly to be made, we jointly and severally bind ourselve	es, our heirs, administrators, executors, successors and assigns.
The Condition of the above obligation is such that whe	ereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached	d hereto and made a part hereof, to enter into a contract in writing for
NOW THEREFORE,	
hereto and shall furnish any other bonds and insurance required agreement created by the acceptance of said bid, then this oblig	If enter into a contract in accordance with the bid or proposal attached by the bid or proposal, and shall in all other respects perform the gation shall be null and void, otherwise this obligation shall remain in full liability of the Surety for any and all claims hereunder shall, in no event,
	nd agrees that the obligations of said Surety and its bond shall be in no ich the Obligee may accept such bid, and said Surety does hereby
IN WITNESS WHEREOF, Principal and Surety have he	ereunto set their hands and seals, and such of them as are corporations
have caused their corporate seals to be affixed hereunto and the	ese presents to be signed by their proper officers, this
day of, 20	
Principal Corporate Seal	(Name of Principal)
	. , ,
	(Must be President or Vice President)
	(Title)
Surety Corporate Seal	(Name of Surety)
	Attorney-in-Fact

IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance. Raised corporate seals must be affixed, a power of attorney must be attached.

# STATE OF WEST VIRGINIA Purchasing Division

### **PURCHASING AFFIDAVIT**

### **VENDOR OWING A DEBT TO THE STATE:**

West Virginia Code §5A-3-10a provides that: No contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and the debt owed is an amount greater than one thousand dollars in the aggregate.

### PUBLIC IMPROVEMENT CONTRACTS & DRUG-FREE WORKPLACE ACT:

West Virginia Code §21-1D-5 provides that: Any solicitation for a public improvement construction contract shall require each vendor that submits a bid for the work to submit at the same time an affidavit that the vendor has a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code. A public improvement construction contract may not be awarded to a vendor who does not have a written plan for a drug-free workplace policy in compliance with Article 1D, Chapter 21 of the West Virginia Code and who has not submitted that plan to the appropriate contracting authority in timely fashion. For a vendor who is a subcontractor, compliance with Section 5, Article 1D, Chapter 21 of the West Virginia Code may take place before their work on the public improvement is begun.

### ANTITRUST:

In submitting a bid to any agency for the state of West Virginia, the bidder offers and agrees that if the bid is accepted the bidder will convey, sell, assign or transfer to the state of West Virginia all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the state of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired by the state of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to the bidder.

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership or person or entity submitting a bid for the same materials, supplies, equipment or services and is in all respects fair and without collusion or fraud. I further certify that I am authorized to sign the certification on behalf of the bidder or this bid.

### LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

### **CONFIDENTIALITY:**

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and is in compliance with the requirements as stated

Vendor's Name:	LAVIS	ATHLETICS,	110			
Authorized Signature	: _/-/-	_R. E	<u>·</u>	_ Date: _	Oct.	8,2008
Purchasing Affidavit (Revis	sea 07/01/08)					

### State of West Virginia

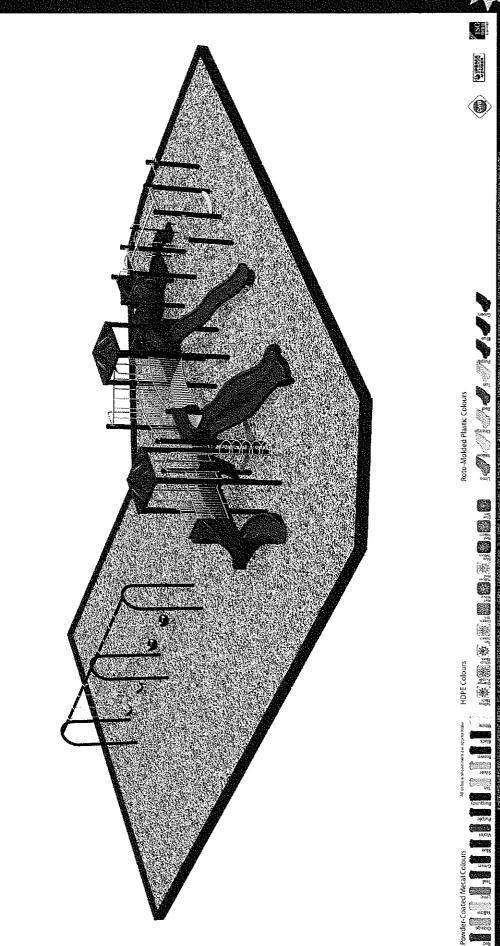
### **VENDOR PREFERENCE CERTIFICATE**

Certification and application\* is hereby made for Preference in accordance with West Virginia Code, §5A-3-37. (Does not apply to construction contracts). West Virginia Code, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the West Virginia Code. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Resident Vendor Preference, if applicable.

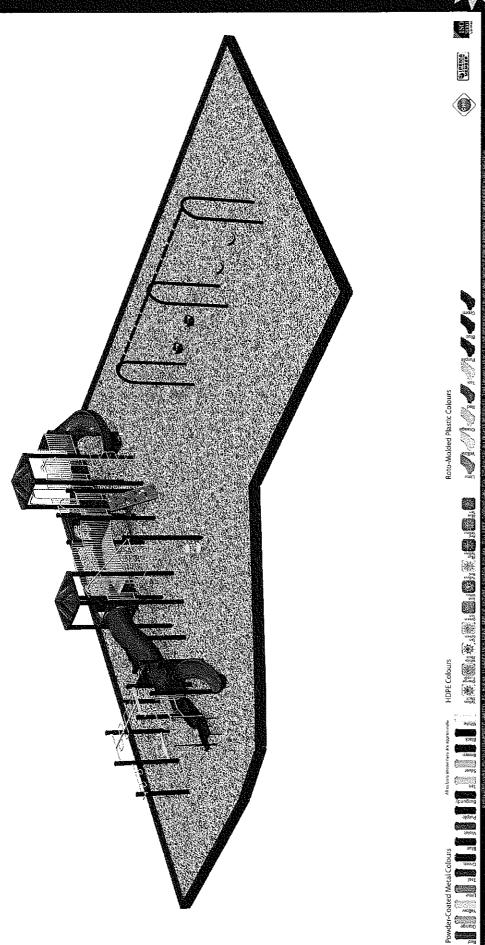
ing the date of this certification; or, Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or 80% of the ownership interest of Bidder is held by another individual, partnership, association or corporation resident vendor who he maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification; or, Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state resident and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; or,  2. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employee working on the project being bid are residents of West Virginia who have resided in the state continuously for the two year immediately preceding submission of this bid; or,  3. Application is made for 2.5% resident vendor preference for the reason checked: Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with a affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; or,  4. Application is made for 5% resident vendor preference for the reason checked: Bidder meets either the requirement of both subdiv		
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<ul> <li>Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; or,</li> <li>Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guar and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; or,</li> <li>Application is made for 3.5% resident vendor preference who is a veteran for the reason checked: Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid an continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees ar residents of West Virginia who have resided in the state continuously for the two immediately preceding years.</li> <li>Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) reject the bid; or (b) assess a penalt against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.</li> <li>By submission of this certificate. Bidder agrees to disclose any reasonably requested information to the Purchasing Division and</li> </ul>	3	Bidder is a nonresident vendor employing a minimum of one hundred state residents or is a nonresident vendor with an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia employing a minimum of one hundred state residents who certifies that, during the life of the contract, on average at least 75% of the employees or Bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state
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Under penalty of law for false swearing (West Virginia Code, §61-5-3), Bidder hereby certifies that this certificate is tru and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificat changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.	and acc	curate in all respects: and that if a contract is issued to Bidder and if anything contained within this certificate
Bidder: Pavis ATHLETICS, LLC Signed: 1. 12 )		

\*Check any combination of preference consideration(s) in either "A" or "B", or both "A" and "B" which you are entitled to receive. You may request up to the maximum of 5% preference for both "A" and "B".

# Moncove Lake West Virginia State Park - Picnic Area



# Moncove Lake West Virginia State Park - Picnic Area



# Model # PF09663R0 Davis Athletics

Moncove Lake West Virginia State Park - Picnic Area

.59'-2" [18.0M]





Surfacing Type: Wood Chips Posts: Brown
Accent: Tan
Rote Plastic: Green
3/4 Plastic: Green/Tan
Other: See Swing Best User Age; 5 to 12 Border Perimeter: 232 hataliation Over A Hard Surface Such As Concrete, Aspiral, Or Packed Earth May Result in Serious Injury Or Death From Earth AWARNING Border Area: 3089 ASTM F 1487, CPSC Footing Quantity: Accessibility: Yes Installation Style: Sales Rep: F.D. Compliance: Inground 36" Colour

Swing c/w Painted Top Bar

SW340 - 1-Bay Arch Swing 8' c/w Belt Seats

SW341 - Arch Swing 8' Extend a Bay c/w Baby Seats

pigy structure dimensions are centre-for the posts unless otherwise specified.

The forcitions of oil telephone, hydro, coble, water, gas, and drainged lines mate be clearly marked by the customer briot to the ployground installation.

All ployground installations to meet the required guidelines of the latest CAM/CS-2514 (CAM) or ASTM F 1457 (USA) releases.

The ployground installation site installation of the latest CAM/CS-2514 (CAM) or ASTM F 1457 (USA) releases.

The ployground installation site must be proportly prepared to Henderson Recreation assumes the ployground installation. Henderson Recreation assumes the ployground installation site has normal soil and digitions. Henderson Recreation assumes the ployground installation site has normal soil and digitions. Henderson Recreation assumes product development and improvement and therefore conditions. Please the right to an product development and improvement and therefore reserves the right to improve, after or discontinue products and specifications without notice.

**Twister Slide 3'** c/w Hood

Space Walk to Post 3'

Tidal Wave Link to Post

Attention:

surface area. No-encroachment zones that are within the safety surface area must be free of all obstacles.

Recommended Protective Surface Zone

Transfer Station 3' - Right (P4)

Zipper

Arch Bridge with Protective Barriers

Corkscrew Climber 6'

Pyramid Roof

36

**.**09 Ą.

2' Rise Crawl Tunnel

Pyramid Root

Climber 5' Rockwall Corner Bench

Satellite Climber 6'

-[NO\_OS] "9-'88

Spiral Stide 6' c/w Hood

Crunch Bar

Turning Bar

Accessible Trapeze Beam

Wave Slide 5' c/w Hood

Double Dare Slide 5' c/w Hood

Accessible Step Deck 12"

Drawn By: R.H. Date Drawn: September 30, 2008 Revised By: Revision Date: Scale: See Key

CHENDERSON RECREATION EQUIPMENT LIMITED. P.C. BOX 68, 11 GILBERTSON DRIVE, SIMCOE, ONTARIO, CANADA, N3Y 4KB, TOLL FREE, 1.800.285.5462 FAX: 519.426.1132. ALL RIGHTS RESERVED. THIS DRAWING IS NOT TO BE REPRODUCED IN ANY WAY WITHOUT PRIOR APPROVAL. HERE, 2/2006



# Play Structure General Specifications

# Playground Equipment Designs

It is the opinion of the manufacturer that playground equipment designs are developed in compliance with the most recent published edition of the following safety standards:

•CAN/CSA-Z614 Children's PlaySpaces and Equipment

•ASTM F 1487 Standard Consumer Safety Performance Specification for Playground Equipment for Public Use

•U.S. Consumer Product Safety Commission (CPSC) Handbook for Public Playground Safety •Americans with Disabilities Act (ADA) accessibility standards

### **Steel Components**

Steel tube components are Allied Flo-Coat® galvanized steel tube with 0.6 mil (0.015mm) zinc coating and 0.5 mil (0.013mm) internal corrosion coating Steel tube components comply with ASTM standards A-500 or A-513. All other steel is zinc-coated, hot-dipped galvanized, Plastisol-coated, or powder-coat painted, as specified. Steel tube components contain between 30% and 100% recycled content. Steel tube components are 95-98% recyclable

### **Uprights**

PlaySteel vertical uprights are 4 (102mm) square x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Outer surfaces are zincplated and inner surfaces are treated to resist corrosion. All posts are powder-coat painted. PlaySteel post caps are alloy 319 cast aluminum with 0.1875" (5mm) top thickness, 0.125" (3mm) side thickness, and 0.34375" (9mm) corner thickness. Post caps are secured to posts with 10 gauge (3mm) satin-coated steel sheet brackets and mechanical fasteners. Post caps are powder-coat painted to match posts unless otherwise requested.

### **Decks**

PlaySteel 4 decks are a welded assembly of angle, expanded metal, and structural reinforcements. Angle is 2.5" x 2.5" x 0.1875" (64mm x 64mm x 5mm) hot-rolled steel angle. Expanded metal is style 0.75" (19mm) - #9 x 10 gauge (3mm) expanded metal. Structural reinforcements are 0.125" x 1.5" (3mm x 38mm) zinc-plated hot-rolled mild flat steel. Entire assembly is Plastisol-coated to a depth of 0.15" (4mm) after fabrication Decks are pre-punched to receive components

# Metal Preparation for Powder Coat Paint Finish

Metal preparation for powder coat paint finish

consists of either a multiple bath system including a rust-prohibitive iron phosphate wash or sandblasting. Parts are free of excess weld splatter.

### **Powder-Coat Paint Finish**

Polyester dry powder-coating is electrostatically applied and oven cured at 400°F (200°C). Finished membrane is 3-5 mil (0.076-0.127mm) and includes additives for resistance to ultraviolet (U.V.) degradation Finished membrane complies with the following performance standards:

•ASTM D 522 (Mandrel Bending)

•ASTM D 2794-90 (Impact)

•ASTM B 117-90 (Salt Spray Resistance)

•ASTM D 3359B (Cross Hatch Adhesion)

•ASTM D 2247-87 (Humidity Resistance)

•ASTM D 3363 (Pencil Hardness)

•ASTM D 822 (Weatherability)

•ASTM D 2454 (Overbake Resistance)

### Welded Components

Welded components are Canadian Welding Bureau (CWB) certified under CSA standards W47.1 Div 2.1 and W47.2 Div. 2.1.

### **Plastisol Coating**

Plastisol coating is Denflex PX-12412 poly-vinylchloride with an average thickness of 0.15" (4mm) unless otherwise specified. Prior to coating, parts are chemically washed with phosphate coat 4013A, treated with a spray-on primer at room temperature, and allowed to dry completely. Parts are heated to 350°F (176°C) internal temperature for 3.5 minutes in an 800°F (427°C) oven and submerged in Plastisol. Coated parts are cured in a liquid salt bath at 395°F (202°C). Coating contains flame-retardant additive, ultraviolet (U V) ray stabilizer to maintain colour, and fungastat to improve resistance to fungal growth. Tensile strength is 2300 lb/in2 (15858 5 kPa), tear strength is 419 lb/in (74.8 kg/cm), ultimate elongation is 250% and shore "A" durometer is 95 +/- 2. Materials comply with the following performance standards:

•ASTM D 624 (Tear Strength)
•ASTM D 412 (Tensile Strength)

### Hardware and Fasteners

All hardware and fasteners are treated to resist corrosion. Hardware and fasteners are tamper resistant unless otherwise specified. All necessary hardware and fasteners are provided

## Rotationally-Moulded Plastic Parts

Rotationally-moulded plastic parts are moulded from linear medium-density polyethylene resin with ultraviolet (U.V.) light stabilizers and colour moulded in. Rotationally-moulded plastic parts have an average wall thickness ranging from 0.125" (3mm) to 0.375" (10mm), as specified. Rotationally-moulded plastic parts comply with the following performance standards:

- -ASTM D 790 (Flex Modulus)
- •ASTM D 638 (Tensile Strength)
- •ASTM D 648 (Heat Distortion Temperature)
- •ARM-STD (Low Temperature Impact)

# 0.75" (19mm) Sheet Polyethylene Parts

0.75" (19mm) sheet polyethylene parts are stress-relieved high-density polyethylene with ultraviolet (U V.) light stabilizers and anti-static guard. Sheet polyethylene parts contain maximum 67% recycled content and are 100% recyclable. Materials comply with:

- •ASTM D 790 (Flex Modulus)
- •ASTM D 638 (Tensile Strength)
- ASTM D 648 (Heat Distortion Temperature)

### **Recycled Plastic**

Recycled plastic is injection moulded 100% solid blended recycled plastic consisting of 96% polyolefins (HDPE/LDPE/PP), 2% PET, 1% PS and 1% other. Recycled plastic is ultraviolet (U V.) light resistant, skid resistant when wet resistant to infestation by borers, and will not leach. Recycled plastic contains no preservatives. Specific gravity is 0.96. Expansion and contraction with 122°F (50°C) temperature variation is 0.3%. Melting point is 374°F (190°C). Compression strength is 1200 to 2400 lb/in2 (8274 to 16548 kPa) depending on profile. No absorption.

### **Bridges & Connectors**

# Arch Bridge with Protective Barriers

Arch Bridge is a mechanical assembly of frame, handrails, and deck cladding. Frame is a welded assembly of 0.375" x 4" (10mm x 102mm) hot-rolled mild flat steel, 2" x 2" x 0.1875" (51mm x 51mm x 5mm) hot-rolled steel angle. and 0.125" (3mm) formed hot-rolled steel angle. Handrails are a welded assembly of 1.315" (33mm) O D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, and 0.25" x 4" (6mm x 102mm) zinc-plated hot-rolled mild flat steel. Frame and handrails are powdercoat painted. Deck cladding is 1.5" x 3.5" (38mm x 89mm) recycled plastic.



### **Climbing Activities**

### Corkscrew Climber 6'

Corkscrew Climber is a mechanical assembly of climber, safety railing, and pole frame. Climber is a welded assembly of pole and corkscrew Pole is 1 66" (42mm) O.D. x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube Corkscrew 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Safety railing is a welded assembly of 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 1.029" (26mm) O.D x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, and 0.1875" x 1.75" (5mm x 44mm) zinc-plated hotrolled mild flat steel. Pole frame is a welded assembly of 1.66" (42mm) O.D. x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 1.9" (48mm) O D. x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Entire assembly is powder-coat painted

### Rockwall Climber 5'

Rockwall climber is a mechanical assembly of wall, ground legs, and safety hoop Wall is a mechanical assembly of plastic and frame Plastic is a mechanical assembly of 0.75" (19mm) high density polyethylene. Frame is a welded assembly of 1.5" x 1.5" (38mm x 38mm) rectangular x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, and 10 gauge (3mm) satincoated steel sheet. Ground legs are 1.315 (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Safety hoop is a welded assembly of 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 1 029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, and 0.1875" x 1 75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Frame, ground legs and safety hoop are powder-coat painted.

### Satellite Climber 6'

Satellite Climber is a mechanical assembly of climber, safety railing, and pole frame. Climber is a welded assembly of 1 66" (42mm) O.D x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 1.029" (26mm) O.D x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube. Safety railing is a welded assembly of 1 315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, and 0 1875" x 1.75" (5mm x 44mm) zincplated hot-rolled mild flat steel. Pole frame is a welded assembly of 1.9" (48mm) O.D. x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 1.66" (42mm) O.D. x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube Entire assembly is powder-coat painted

### **Decks**

### Launch Pad

Launch Pad is a mechanical assembly of frame and plastic. Frame is a welded assembly of 1.5° (38mm) square x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube and 0.1875° x 1.75° (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Frame is powder-coat painted. Plastic is 0.75° (19mm) anti-skid marine-grade polymer.

### P4 Square Deck - Punched

Square Deck is a welded assembly of style 0.75" (19mm) - #9 x 10 gauge (3mm) expanded metal, 10 gauge (3mm) hot-rolled steel sheet, 0.1875" x 1.5" (5mm x 38mm) hot-rolled mild flat steel structural reinforcements, and 0.1875" x 3.5" (5mm x 89mm) hot-rolled mild flat steel corner brackets. Deck is Plastisol-coated. Surface area is 2146 in2 (1.38m2).

### Links

### **Tidal Wave Link to Post**

Tidal Wave Link is a mechanical assembly of link and safety hoops. Link is a welded assembly of 1.66" (42mm) O.D. x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Safety hoops are a welded assembly of 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, 0.5" (13mm) O.D. hot-rolled round steel bar 10 gauge (3mm) satincoated steel sheet, and 0.1875" x 1.75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Entire assembly is powder-coat painted.

### **Overhead Activities**

### Accessible Trapeze Beam

Accessible Trapeze Beam is a mechanical assembly of ring beam and rings. Ring beam is a welded assembly of 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 0.1875" x 1.75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Rings are a welded assembly of 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube. Rings are suspended from a lubricated bearing with mechanical hardware. Ring beam and rings are powder-coat painted.

### Turning Bar

Turning Bar is a welded assembly of 1 315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 0.1875' x 1.75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Entire assembly is powder-coat painted

### Zipper

Zipper is a mechanical assembly of beam, support bar, and brackets Beam is a welded assembly of 2.375' (60mm) O D x 10 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 1.029' (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, and 10 gauge (3mm) satin-coated steel sheet. Support bar is a welded assembly of 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 0.1875" x 1 75' (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Brackets are 10 gauge (3mm) satin-coated steel sheet. Entire assembly is powder-coat painted.

### Roofs

### **Pyramid Roof**

Poly Pyramid Roof is a mechanical assembly of roof and roof mounts. Roof is rotationally-moulded medium-density polyethylene with an average wall thickness of 0.25" (6mm). Roof mounts are 10 gauge (3mm) aluminum sheet Roof mounts are powder-coat painted.

### Slide Hoods

# New Style Double Slide Plastic Hood (SPI)

Double Poly Slide Plastic Hood is rotationallymoulded medium-density polyethylene with an average wall thickness of 0 25" (6mm)

### Single Slide Plastic Hood (SPI)

Single Poly Slide Plastic Hood is a mechanical assembly of plastic hood and brackets. Plastic hood is rotationally-moulded medium-density polyethylene with an average wall thickness of 0.25" (6mm) Brackets are 10 gauge (3mm) satincoated steel sheet. Brackets are powder-coat painted.



### **Slides**

### Double Dare Slide 5' (SPI)

Double Poly Slide is a mechanical assembly of slide angle, ground leg mount ground legs. string guards, and slide. Slide angle is 10 gauge (3mm) satin-coated steel sheet. Ground leg mount is a welded assembly of 1" x 1' x 0.125 (25mm x 25mm x 3mm) hot-rolled steel angle and 0.1875" x 2' (5mm x 51mm) zinc-plated hotrolled mild flat steel Ground legs are 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. String guards are 0.75" (19mm) high-density polyethylene. Slide is onepiece, double-wall, rotationally-moulded mediumdensity polyethylene with an average wall thickness of 0.3125" (8mm). Slide has no seams joints, or exposed hardware. Slide bed is minimum 16" (406mm) wide. Slide angle, ground leg mount and ground legs are powder-coat

### Spiral Slide 6' (SPI)

Poly Spiral Slide is a mechanical assembly of slide, deck, safety railing, and support post Slide is one-piece, double-wall, rotationallymoulded medium-density polyethylene with an average wall thickness of 0.3125" (8mm). Slide has no seams, joints, or exposed hardware Slide bed is minimum 16" (406mm) wide. Deck is a welded assembly of 10 gauge (3mm) hot-rolled steel sheet, style 0.75' (19mm) - #9 x 10 gauge (3mm) expanded metal, and 0.125" x 1.5" (3mm x 38mm) hot-rolled mild flat steel structural reinforcements. Deck is Plastisol-coated after fabrication. Safety railing is a welded assembly of 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 1.029" (26mm) O.D x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, 0.25" x 2" (6mm x 51mm) zinc-plated hot-rolled mild flat steel, and 0 1875 x 1.75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Support post is 5" (76mm) O.D. x 0.125" (3mm) hollow structural steel tube. Safety railing is powder-coat painted

### Twister Slide 3' (SPI)

Poly Twister Slide is a mechanical assembly of slide, slide plate, and ground legs. Slide is onepiece, double-wall, rotationally-moulded mediumdensity polyethylene with an average wall thickness of 0.3125" (8mm) Slide has no seams joints, or exposed hardware Slide bed is minimum 16" (406mm) wide. Slide plate is a welded assembly of 10 gauge (3mm) satincoated steel sheet. Ground legs are a mechanical assembly of legs and mount. Legs are 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Mount is a welded assembly of 1" x 1" x 0 125" (25mm x 25mm x 3mm) hot-rolled steel angle and 0.1875 x 2" (5mm x 51mm) zinc-plated hot-rolled mild flat steel Slide plate and ground legs are powdercoat painted

### Wave Slide 5' (SPI)

Poly Wave Slide is a mechanical assembly of slide, slide plate, ground legs, and support leg Slide is one-piece, double wall, rotationallymoulded medium-density polyethylene with an average wall thickness of 0.3125" (8mm). Slide has no seams, joints, or exposed hardware. Slide bed is minimum 16" (406mm) wide. Slide plate is a welded assembly of 10 gauge (3mm) satin-coated steel sheet. Ground legs are a mechanical assembly of legs and mount. Legs are 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Mount is a welded assembly of 1" x 1" x 0 125" (25mm x 25mm x 3mm) hot-rolled steel angle and 0.1875" x 2" (5mm x 51mm) zinc-plated hot-rolled mild flat steel. Support leg is a mechanical assembly of leg and mount Leg is 1.66" (42mm) O.D. x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Mount is a welded assembly of 0 25' x 2" (6mm x 32mm) zinc-plated hot-rolled mild flat steel. Slide plate, ground legs, and support leg. are powder-coat painted

### **Social Play Activities**

### **Corner Bench**

Corner Bench is a mechanical assembly of frame and plastic. Frame is a welded assembly of 1.5' (38mm) square x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, 0.25" x 4' (6mm x 102mm) zinc-plated hot-rolled mild flat steel, and 0.1875" x 1.75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel Seat frame is powder-coat painted Plastic is 0.75" (19mm) sheet polyethylene

### Stairs & Access Points

### Accessible Step Deck 12"

Accessible Step Deck is a mechanical assembly of step deck, handrails, and infills. Step deck is a welded assembly of style 0.75" (19mm) - #9 x 10 gauge (3mm) expanded metal, 10 gauge (3mm) hot-rolled steel sheet, 0.1875" x 1.5" (5mm x 38mm) hot-rolled mild flat steel structural reinforcements, and 0.1875" x 3.5" (5mm x 89mm) hot-rolled mild flat steel corner brackets. Step deck is Plastisol-coated. Handrails are a welded assembly of 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 1.029" (26mm) O D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube. Handrails are powder-coat painted. Infills are 0.75" (19mm) sheet polyethylene.

### **Swings**

### 1-Bay Arch Swing 8'

Arch Swing is a mechanical assembly of top bar swing bearings, and end frames. Top bar is 3.5" (89mm) O.D. x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube. Swing bearings are a mechanical assembly of upper and lower bracket. Upper bracket is 0.1875" x 2" (5mm x 51mm) hot-rolled mild flat steel. Lower bracket is a mechanical assembly of hanger and swivel bearing. Hanger is a welded assembly of 0.1875' x 2" (5mm x 51mm) hot-rolled mild flat steel and 0.1875" x 1 75" (5mm x 44mm) hot-rolled mild flat steel. Swivel bearing is a welded assembly of 1" (25mm) schedule 40 black steel pipe, 0 375" (10mm) O.D hotrolled steel bar, 1.03" (26mm) O.D x 0 51" (13mm) 1.D. Nylatron® bushing 0 5" (13mm) machine bolt, and 0.5" (13mm) lock nut. Swing bearings are hot-dipped galvanized. End frames are a welded assembly of 3.5" (89mm) O.D x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube, 3" (76mm) O.D. x 0.120" (3mm) hollow structural steel tube, and 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube

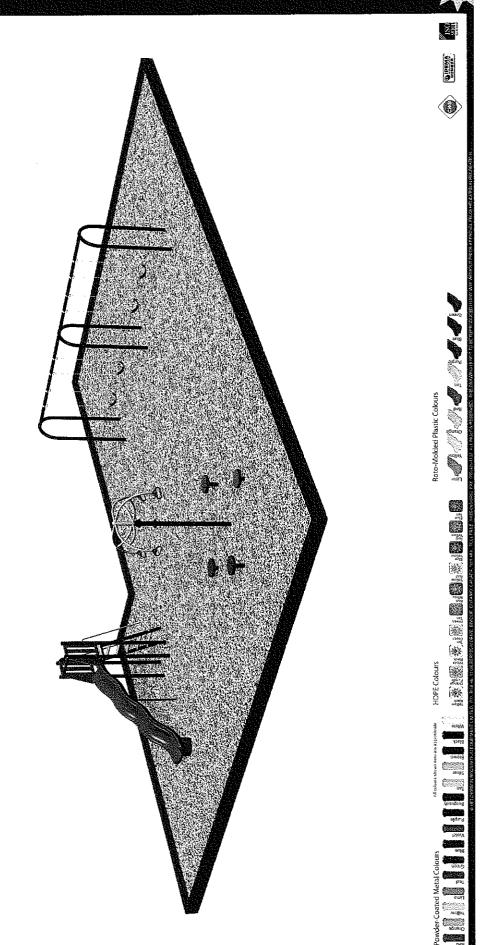
### Arch Swing 8' Extend a Bay

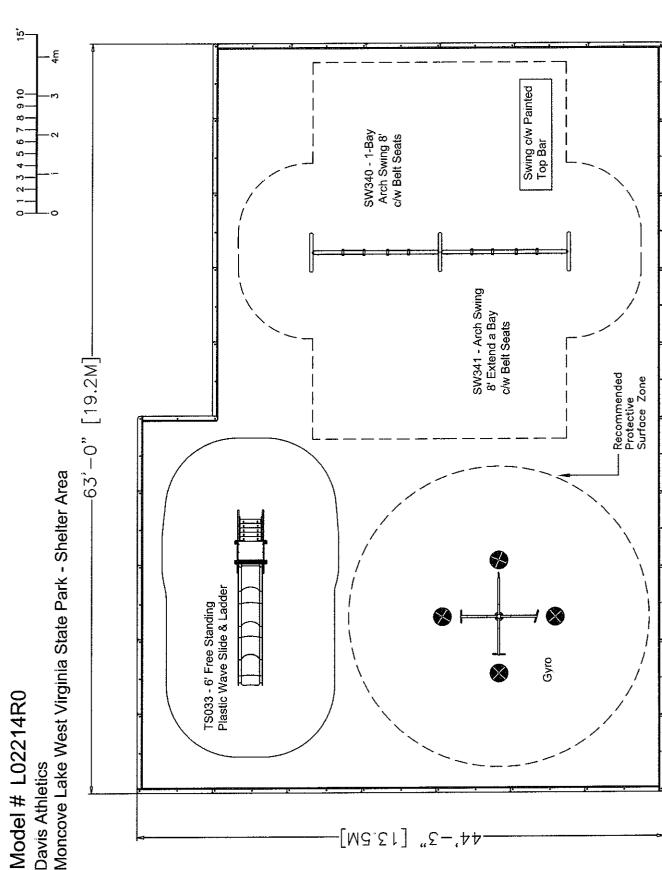
Arch Swing is a mechanical assembly of top bar swing bearings, and end frames. Top bar is 3 5" (89mm) O.D. x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube. Swing bearings are a mechanical assembly of upper and lower bracket. Upper bracket is 0.1875" x 2" (5mm x 51mm) hot-rolled mild flat steel. Lower bracket is a mechanical assembly of hanger and swivel bearing. Hanger is a welded assembly of 0.1875" x 2" (5mm x 51mm) hot-rolled mild flat steel and 0.1875" x 1.75" (5mm x 44mm) hot-rolled mild flat steel. Swivel bearing is a welded assembly of 1" (25mm) schedule 40 black steel pipe, 0.375" (10mm) O.D. hotrolled steel bar, 1.03" (26mm) O.D. x 0.51" (13mm) I.D. Nylatron® bushing, 0.5" (13mm) machine bolt, and 0.5" (13mm) lock nut. Swing bearings are hot-dipped galvanized. End frames are a welded assembly of 3.5" (89mm) O.D. x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube, 3" (76mm) O.D. x 0.120" (3mm) hollow structural steel tube, and 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube

## PLAYSTEEL'

# Moncove Lake West Virginia State Park - Shelter Area







centre-to-centre of the posts unless otherwise specified.

The locations of oil telephone, hydro, codie, water, gas, and drainage lines must be clearly marked by the customer prior to the ployground instellation.

All ployground instellation.

All ployground instellation.

All ployground instellation.

All ployground instellations of meet the required guidelines of the latest CAN/CSA-Z614 (CAN) or ASTM F 1487 (USA) releases.

The ployground instellation alternate be properly prepared to Henderson. specifications prior to installation. Herderaon Recention assumes the playground installation site has normal soil and diggling conditions. Places notify us of any unusual soil conditions. Henderson Recreation Equipment Limited has a commitment to continuous product development and therefore reserves the right to improve, after or discontinue product and specifications without notice. Surfacing Type: Wood Chips Best User Age: 5 to 12 Posts: Brown Accent: Tan Tan Soto Plastic: Green 3/4 Plastic: Green/Tan Other: See Swing Border Perimeter: 213 nstallation Over A Hard Surface Such to Concrote, Asphali, Or Packed Earli Say Result In Serious trjuly Or Deals from East. **AWARNING** Note: All border dimensions Border Area: 2543 ASTM F 1487, CPSC Footing Quantity: Installation Style: Sales Rep: F.D. Accessibility: Compliance: nground 36" Colour:

\*Attention:
No-encrookment zones that
ore adjacent to but autside of
the address surface orea must be
free of any obstacles that would
impede or block safe pedestrian
traffic flow around the safety
surface area. No-encrookment
zones that are within the safety
surface area must be free of all
obstacles.

Drawn By: R.H.
Date Drawn: September 30, 2008
Revision By:
Revision Date:
Scale: See Key

Henderson



# Play Structure General Specifications

# Playground Equipment Designs

It is the opinion of the manufacturer that playground equipment designs are developed in compliance with the most recent published edition of the following safety standards:

-CAN/CSA-Z614 Children's PlaySpaces and Equipment

•ASTM F 1487 Standard Consumer Safety Performance Specification for Playground Equipment for Public Use

 U.S. Consumer Product Safety Commission (CPSC) Handbook for Public Playground Safety
 Americans with Disabilities Act (ADA) accessibility standards

### **Steel Components**

Steel tube components are Allied Flo-Coat® galvanized steel tube with 0.6 mil (0.015mm) zinc coating and 0.5 mil (0.013mm) internal corrosion coating Steel tube components comply with ASTM standards A-500 or A-513. All other steel is zinc-coated, hot-dipped galvanized, Plastisol-coated, or powder-coat painted, as specified. Steel tube components contain between 30% and 100% recycled content. Steel tube components are 95-98% recyclable.

### **Uprights**

PlaySteel vertical uprights are 4' (102mm) square x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Outer surfaces are zinc-plated and inner surfaces are treated to resist corrosion. All posts are powder-coat painted. PlaySteel post caps are alloy 319 cast aluminum with 0.1875" (5mm) top thickness, 0.125" (3mm) side thickness, and 0.34375" (9mm) corner thickness Post caps are secured to posts with 10 gauge (3mm) satin-coated steel sheet brackets and mechanical fasteners. Post caps are powder-coat painted to match posts unless otherwise requested.

### **Decks**

PlaySteel 4 decks are a welded assembly of angle, expanded metal, and structural reinforcements. Angle is 2.5" x 2.5" x 0.1875" (64mm x 64mm x 5mm) hot-rolled steel angle. Expanded metal is style 0.75' (19mm) - #9 x 10 gauge (3mm) expanded metal. Structural reinforcements are 0.125" x 1 5" (3mm x 38mm) zinc-plated hot-rolled mild flat steel. Entire assembly is Plastisol-coated to a depth of 0.15" (4mm) after fabrication Decks are pre-punched to receive components

# Metal Preparation for Powder Coat Paint Finish

Metal preparation for powder coat paint finish

consists of either a multiple bath system including a rust-prohibitive iron phosphate wash or sandblasting. Parts are free of excess weld splatter.

### **Powder-Coat Paint Finish**

Polyester dry powder-coating is electrostatically applied and oven cured at 400°F (200°C). Finished membrane is 3-5 mil (0 076-0.127mm) and includes additives for resistance to ultraviolet (U.V.) degradation. Finished membrane complies with the following performance standards:

•ASTM D 522 (Mandrel Bending)

•ASTM D 2794-90 (Impact)

•ASTM B 117-90 (Salt Spray Resistance)

•ASTM D 3359B (Cross Hatch Adhesion)

•ASTM D 2247-87 (Humidity Resistance)

•ASTM D 3363 (Pencil Hardness)

ASTM D 822 (Weatherability)

•ASTM D 2454 (Overbake Resistance)

### **Welded Components**

Welded components are Canadian Welding Bureau (CWB) certified under CSA standards W47 1 Div 2.1 and W47 2 Div. 2.1.

### **Plastisol Coating**

Plastisol coating is Denflex PX-12412 poly-vinylchloride with an average thickness of 0.15° (4mm) unless otherwise specified. Prior to coating, parts are chemically washed with phosphate coat 4013A, treated with a spray-on primer at room temperature, and allowed to dry completely Parts are heated to 350°F (176°C) internal temperature for 3.5 minutes in an 800°F (427°C) oven and submerged in Plastisol. Coated parts are cured in a liquid salt bath at 395°F (202°C). Coating contains flame-retardant additive, ultraviolet (U V) ray stabilizer to maintain colour, and fungastat to improve resistance to fungal growth. Tensile strength is 2300 lb/in2 (15858.5 kPa), tear strength is 419 lb/in (74.8 kg/cm), ultimate elongation is 250% and shore "A" durometer is 95 +/- 2 Materials comply with the following performance standards:

•ASTM D 624 (Tear Strength)
•ASTM D 412 (Tensile Strength)

### Hardware and Fasteners

All hardware and fasteners are treated to resist corrosion. Hardware and fasteners are tamper resistant unless otherwise specified. All necessary hardware and fasteners are provided

## Rotationally-Moulded Plastic Parts

Rotationally-moulded plastic parts are moulded from linear medium-density polyethylene resin with ultraviolet (U.V) light stabilizers and colour moulded in. Rotationally-moulded plastic parts have an average wall thickness ranging from 0.125" (3mm) to 0.375" (10mm), as specified Rotationally-moulded plastic parts comply with the following performance standards:

- •ASTM D 790 (Flex Modulus)
- •ASTM D 638 (Tensile Strength)
- •ASTM D 648 (Heat Distortion Temperature)
- •ARM-STD (Low Temperature Impact)

# 0.75" (19mm) Sheet Polyethylene Parts

0.75" (19mm) sheet polyethylene parts are stress-relieved high-density polyethylene with ultraviolet (U V) light stabilizers and anti-static guard. Sheet polyethylene parts contain maximum 67% recycled content and are 100% recyclable. Materials comply with:

- ASTM D 790 (Flex Modulus)
- •ASTM D 638 (Tensile Strength)
- -ASTM D 648 (Heat Distortion Temperature)

### Recycled Plastic

Recycled plastic is injection moulded 100% solid blended recycled plastic consisting of 96% polyolefins (HDPE/LDPE/PP), 2% PET, 1% PS and 1% other. Recycled plastic is ultraviolet (U.V.) light resistant, skid resistant when wet, resistant to infestation by borers and will not leach. Recycled plastic contains no preservatives. Specific gravity is 0.96. Expansion and contraction with 122°F (50°C) temperature variation is 0.3%. Melting point is 374°F (190°C). Compression strength is 1200 to 2400 lb/in2 (8274 to 16548 kPa) depending on profile No absorption, solubility, or evaporation

### **Swings**

### 1-Bay Arch Swing 8'

Arch Swing is a mechanical assembly of top bar. swing bearings and end frames. Top bar is 3.5" (89mm) O.D. x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube. Swing bearings are a mechanical assembly of upper and lower bracket, Upper bracket is 0.1875" x 2" (5mm x 51mm) hot-rolled mild flat steel. Lower bracket is a mechanical assembly of hanger and swivel bearing. Hanger is a welded assembly of 0.1875" x 2" (5mm x 51mm) hot-rolled mild flat steel and 0.1875" x 1.75" (5mm x 44mm) hot-rolled mild flat steel. Swivel bearing is a welded assembly of 1" (25mm) schedule 40 black steel pipe, 0.375" (10mm) O.D. hotrolled steel bar, 1.03" (26mm) O.D. x 0.51" (13mm) I.D. Nylatron® bushing 0.5" (13mm) machine bolt, and 0.5" (13mm) lock nut. Swing bearings are hot-dipped galvanized. End. frames are a welded assembly of 3.5" (89mm) O.D. x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube, 3" (76mm) O.D. x 0.120" (3mm) hollow structural steel tube, and 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube

### Arch Swing 8' Extend a Bay

Arch Swing is a mechanical assembly of top bar swing bearings and end frames. Top bar is 3 5" (89mm) O.D. x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube. Swing bearings are a



mechanical assembly of upper and lower bracket. Upper bracket is 0.1875" x 2" (5mm x 51mm) hot-rolled mild flat steel. Lower bracket is a mechanical assembly of hanger and swivel bearing. Hanger is a welded assembly of 0.1875' x 2" (5mm x 51mm) hot-rolled mild flat steel and 0.1875" x 1 75" (5mm x 44mm) hot-rolled mild flat steel. Swivel bearing is a welded assembly of 1" (25mm) schedule 40 black steel pipe, 0 375" (10mm) O.D. hotrolled steel bar, 1.03" (26mm) O.D. x 0.51" (13mm) I.D. Nylatron® bushing, 0.5" (13mm) machine bolt, and 0.5" (13mm) lock nut. Swing bearings are hot-dipped galvanized. End frames are a welded assembly of 3.5" (89mm) O.D x 8 gauge (4mm) Allied Flo-Coat® galvanized steel tube, 3" (76mm) O.D x 0.120" (3mm) hollow structural steel tube, and 1.029" (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube

### **Quote Parts List**

Drawing #: PF09663r0

Date: 9/29/2008



Customer: Davis Athletics
Location: Gap Mills WV

	<b>Q</b> ty	Component Number	Component Name
Other			
	2	1M-SA-SWP00900-00	Swing Topbar - Heavy Duty
	2	1M-SA-SWP01200-01	8' Arch Swing End Frame
	1	1M-SA-SWP01300-01	8' Arch Swing Centre Frame
	8	1M-SA-SWP01500-00	3" Swing Hanger Bearing Assembly C/W 1 Top
	4	1M-SA-SWP02600-00	47" Chain
	4	1M-SA-SWP02800-00	68" Chain
	2	1S-SA-SWP00300-00	Slash Proof Baby Swing Seat
	2	1S-SA-SWP00400-01	Slash Proof Belt Swing Seat
unit			
	1	1A-P1-OHE02800-01	Accessible Trapeze Beam
	2	1A-P1-PPN00700-01	SPI Single Slide Hood Assembly
	1	1A-P1-PSL00800-01	SPI Poly Spiral Slide 6' Assembly
	1	1A-P1-PSL01100-01	SPI 3' Poly Twister Slide Assembly
	1	1A-P1-PSL01800-01	SPI 5' Poly Wave Slide Assembly
	1	1A-P1-PSL02400-00	SPI 5' Double Dare Poly Slide Assembly
	1	1M-P1-BPN00300-00	Universal Safety Hoop
	1	1M-P1-BPN02610-01	Spiral Slide Rail - Right
	1	1M-P1-BPN02620-01	Spiral Slide Rail - Left
	1	1M-P1-BPN03400-00	Universal Safety Hoop w/ Top Lug
	2	1M-P1-BPN03900-00	Slide Pole Universal Hoop
	4	1M-P1-BRK00400-00	Sheet Plastic Bracket
	1	1M-P1-BRK01800-01	Double Poly Slide Angle
	2	1M-P1-BRK01900-01	Poly Wave Slide Angle
	4	1M-P1-BRK02100-01	SPI Single Slide Plastic Hood Brackets
	13	1M-P1-BRK05500-01	4" Post Cap Assembly Bracket
	2	1M-P1-BRK09200-00	Double Hood String Guard
	16	1M-P1-BRK10000-00	PlaySteel Deck Bracket
	2	1M-P1-CLM00100-00	Grab Bar
	1	1M-P1-CLM01900-03	Corkscrew Climber 6' - Bent
	1	1M-P1-CLM09600-02	Satellite Climber 6' - Bent
	1	1M-P1-CLM11500-00	Tidal Wave Link to Post
	1	1M-P1-CLM12700-00	SpaceWalk 3' Extended to Post
	1	1M-P1-CWR19800-06	Crunch Bar
	1	1M-P1-FRM00500-00	Support Hoop
	2	1M-P1-FRM01100-02	Climber Frame 5'

Henderson Recreation Equipment Limited has a commitment to continuous product development and improvement and therefore reserves the right to improve, alter or discontinue products without notice.

Qty	Component Number	Component Name
2	1M-P1-FRM01500-00	Double Pod Seat Frame
1	1M-P1-FRM02200-00	SPI Poly Spiral Mounting Frame
1	1M-P1-FRM02300-01	Launch Pad Frame
8	1M-P1-FRM02700-00	Bridge Support Bar
4	1M-P1-GND00100-00	Universal Ground Leg Mount
13	1M-P1-GND00200-00	Universal Ground Leg
2	1M-P1-HDR00700-01	Arch Bridge Protective Barrier
2	1M-P1-HDR02800-01	Step Deck Handrail 12"
2	1M-P1-HDR06100-00	Transfer Handrail - Upper
2	1M-P1-HDR06200-00	18" Transfer Step Handrails
1	1M-P1-HDR06400-00	Transfer Platform Grab Rail
4	1M-P1-LUG00200-01	Turning Bar Lug
2	1M-P1-OHA00500-02	Trapeze Ring
1	1M-P1-OHA01900-00	Accessible Trapeze Beam Components (5 parts
1	1M-P1-OHE00100-01	Turning Bar
1	1M-P1-OHE02300-01	Zipper
2	1M-P1-OHE04300-00	Overhead Support Bar
1	1M-P1-PST04000-00	1.5 Square Support Post c/w Flat Cap
2	1M-P1-SHP05300-01	Plastic Infill 6" x 38"
2	1M-P1-SHP14500-00	Space Walk Step
1	1M-P1-SHP16900-00	Poly Spiral Slide Plastic Rail
2	1M-P1-SHP17000-00	SPI Double Slide 5' String Guard
1	1M-P1-SHP17600-00	Rockwall Plastic Sheet 5'
1	1M-P1-SHP18300-01	Launch Pad Plastic
1	1M-P1-SHP18800-00	Corner Bench Plastic
2	1M-P1-SHP19600-00	Step Deck Plastic String Guard
2	1M-P1-SHP20300-00	3/4" Crawl Tunnel Panel
2	1M-P1-SHP23000-00	Arch Bridge Decking
8	1M-P4-BRK00900-00	PF Pyramid Roof Bracket
8	1M-P4-PST00800-00	4" Post c/w No Cap
1	1M-P4-PST00900-00	4" Post c/w Flat Cap
13	1M-P4-PST01000-01	4" Post c/w Alum Cap
1	1S-P1-DCK01000-03	Spiral Slide Deck - Punched
1	1S-P1-DCK02100-01	Accessible Step Deck - Punched
1	1S-P1-DCK02500-00	Transfer Platform
2	1S-P1-PPN00701-01	SPI Single Slide Hood
1	1S-P1-PPN00800-02	SPI Double Slide Hood
1	1S-P1-PSL00801-01	SPI Poly Spiral Slide 6'
1	1S-P1-PSL01101-01	SPI 3' Poly Twister Slide
1	1S-P1-PSL01801-01	SPI 5' Poly Wave Slide
1	1S-P1-PSL02401-00	SPI 5' Double Poly Slide
1	1S-P1-STR02500-00	9" Transfer Step

Henderson Recreation Equipment Limited has a commitment to continuous product development and improvement and therefore reserves the right to improve, alter or discontinue products without notice.

$\varrho$	ty	Component Number	Component Name
	1	1S-P1-STR02600-00	18" Transfer Steps
	4	1S-P4-DCK00100-03	PF Square Deck - Punched
1	13	1S-P4-PST00700-01	PF Aluminum Post Cap
	2	1S-P4-ROF01100-00	PF Pyramid Plastic Roof
	1	2A-P1-CTN01400-00	Crawl Tube 2FT Incline Assembly

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# WARRANTY

### Lifedime\*

Limited warranty on steel posts, all stainless steel hardware, deck brackets and post caps against structural failure due to corrosion or deterioration caused by defects in materials and workmanship.

### 10 Year\*

Limited warranty on Southern Yellow Pine pressure-treated wood components against structural failure due to insect infestation and fungal decay caused by defects in materials and workmanship.

### 10 Year\*

Limited warranty on polyethylene components, sheet plastic and Plastisol-clad decks against structural failure due to corrosion or deterioration caused by defects in materials and workmanship.

### One Year\* General Warranty

Limited 1-Year Warranty on all other moving parts, swing seats, and any other materials not covered above. Henderson Recreation will repair or replace all parts of the product or equipment found to be defective free of charge. Warranty periods start at date of invoice.

### \* Items Not Covered in the above Warranties

Product or equipment that is not installed in conformity with the layout plan and/ or installation instructions provided by Henderson Recreation; product or equipment that has not been maintained and inspected in accordance with Henderson Recreation's instructions; product or equipment that has been subjected to misuse, negligence or accident; product or equipment that has been subjected to addition, modification, alteration, repair, or part substitution by persons other than Henderson Recreation or Henderson Recreation's designees. Labour or damages resulting from vandalism, abnormal use, incorrect installation, and lack of routine maintenance are not covered by the above warranties. These warranties do not include any or all of the following cosmetic issues: scratches, dents, marring, fading of colours, discolouration, normal wear and tear and natural fading, and the weathering of wood, including but not limited to raised grain, splitting, checking, twisting, warping, shrinkage, swelling or any other physical property of the wood. The terms, "rot" and "fungal decay," as used in this warranty mean attack by wood-destroying fungi that disintegrate the wood cell walls, but exclude surface mold and mildew fungi associated with the "weathering of wood." "Weathering" of wood is not decay, fungal decay, or rot of any type or definition. The above warranties are exclusive and in lieu of all other warranties, whether expressed or implied, including, but not limited to any warranty of merchantability or fitness for a particular purpose. Further, no representation, oral or written, of any representative of Henderson Recreation may be substituted for the afore described limited warranties. To the extent permitted by law, Henderson Recreation shall not be liable for, direct, indirect, special, incidental, or consequential damages which are expressly excluded from the above warranties.

### 20 Year\*

Limited warranty on Southern Yellow Pine pressure-treated wood support posts against structural failure due to insect infestation and fungal decay caused by defects in materials and workmanship.

### 15 Year\*

Limited warranty on steel rails, loops, and rungs against structural failure due to corrosion or deterioration caused by defects in materials and workmanship.

### 5 Year\*

Limited Warranty on all Site Amenities, including all benches, tables, litter receptacles and bike racks, against structural failure due to corrosion or deterioration caused by defects in materials and workmanship.

Any freight costs associated with the warranty claim, any costs for dismantling the defective part in order to replace it, and any installation costs associated with the replacement part(s) are not considered part of this warranty and will not be paid by Henderson Recreation. This warranty excludes liability other than that expressly stated, including but not limited to any incidental or consequential damages.

### **Warranty Claims**

To be valid, all warranty claims must be submitted in writing promptly following discovery of the defect(s) and within the specified warranty period. Henderson Recreation requires that all warranty claims be accompanied by a copy of the original invoice and photograph(s) clearly identifying the defect(s) in question.

### **Product Replacement**

Henderson Recreation Equipment Limited has a commitment to continuous product development and improvement and therefore reserves the right to make approved substitutions in design or specifications.

### Loss or Damage In Transit

Henderson Recreation cannot be held responsible for the loss or damage of products by common carriers. Please check the bill of lading carefully to ensure your product is in good order prior to signing it: After the product departs our plant(s), we are no longer responsible for any loss, damage, or shortage.

### Maintenance

The demand for safety requires regular inspection of playground structures for signs of wear and tear. All necessary repairs should be completed promptly by a qualified repair person. For more information on the regulations concerning playground equipment, installation, maintenance, and protective surfacing, please refer to your local and national safety standards.

