



The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at wvOASIS.gov. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at WVPurchasing.gov with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 16

List View

General Information

Contact

Default Values

Discount

Document Information

Procurement Folder: 566626

Procurement Type: Central Purchase Order

Vendor ID: 000000184986

Legal Name: DAVIS ATHLETICS LLC

Alias/DBA:

Total Bid: \$200,000.00

Response Date: 05/29/2019

Response Time: 12:22

SO Doc Code: CRFQ

SO Dept: 0403

SO Doc ID: DBS1900000008

Published Date: 5/17/19

Close Date: 5/29/19

Close Time: 13:30

Status: Closed

Solicitation Description: Addendum #2 WW School for the Deaf & Blind ADA Playground

Total of Header Attachments: 16

Total of All Attachments: 16



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**State of West Virginia
 Solicitation Response**

Proc Folder : 566626

Solicitation Description : Addendum #2 WV School for the Deaf & Blind ADA Playground

Proc Type : Central Purchase Order

Date issued	Solicitation Closes	Solicitation Response	Version
	2019-05-29 13:30:00	SR 0403 ESR05291900000005507	1

VENDOR
000000184986 DAVIS ATHLETICS LLC

Solicitation Number: CRFQ 0403 DBS1900000008

Total Bid : \$200,000.00

Response Date: 2019-05-29

Response Time: 12:22:29

Comments:

FOR INFORMATION CONTACT THE BUYER
 Stephanie L Gale
 (304) 558-8801
 stephanie.l.gale@wv.gov

Signature on File	FEIN #	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Playground System				\$200,000.00

Comm Code	Manufacturer	Specification	Model #
49221532			

Extended Description : WVSDB ADA Playground



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 09 - Construction

Proc Folder: 566626

Doc Description: WV School for the Deaf & Blind ADA Playground

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2019-04-15	2019-05-22 13:30:00	CRFQ 0403 DBS1900000008	1

BID RECEIVING LOCATION

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR

Vendor Name, Address and Telephone Number:

Davis Athletics, LLC
 2330 Broad Street
 Parkersburg, WV 26101
 304-428-3000

FOR INFORMATION CONTACT THE BUYER

Stephanie L Gale
 (304) 558-8801
 stephanie.l.gale@wv.gov

Signature X *Stephanie L Gale* FEIN # 41-2171922 DATE 5-29-19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Request for Quotation
 (Equipment and Installation of ADA compliant Equipment)

The West Virginia Purchasing Division is soliciting bids on behalf of the Agency The West Virginia Schools for the Deaf and the Blind to establish a one-time equipment/construction contract for the purchase and installation of ADA compliant playground equipment and poured in place safety surfacing at Romney, Hampshire County, West Virginia per the bid requirement, specifications, terms and conditions as attached hereto.

INVOICE TO		SHIP TO	
ACCOUNTS PAYABLE SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST		CENTRAL SUPPLY SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST	
ROMNEY	WV26757-1894	ROMNEY	WV 26757-1894
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Playground System	1		\$200,000.00	\$200,000.00

Comm Code	Manufacturer	Specification	Model #
49221532	Henderson Recreation, Miracle Recreation, & Freenotes Harmony Park.	Specifications Attached	B502610R3

Extended Description :
 WVSDB ADA Playground

DBS1900000008	Document Phase Final	Document Description WV School for the Deaf & Blind ADA Playground	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 09 - Construction

Proc Folder: 566626

Doc Description: Addendum #1 WV School for the Deaf & Blind ADA Playground

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2019-05-15	2019-05-22 13:30:00	CRFQ 0403 DBS1900000008	2

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

VENDOR
 Vendor Name, Address and Telephone Number:
 Davis Athletics, LLC
 2330 Broad Street
 Parkersburg, WV 26101
 304-428-3000

FOR INFORMATION CONTACT THE BUYER
 Stephanie L Gale
 (304) 558-8801
 stephanie.l.gale@wv.gov

Signature X *Med L Davis* FEIN # 41-2171922 DATE 5-29-19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum #1 issued to:

1. Provide modified specifications and drawing.
2. Provide copy of the pre-bid sign-in sheet.
3. Provide responses to Vendor questions.

End of Addendum #1

INVOICE TO		SHIP TO	
ACCOUNTS PAYABLE SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST		CENTRAL SUPPLY SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST	
ROMNEY	WV26757-1894	ROMNEY	WV 26757-1894
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Playground System	1		\$200,000.00	\$200,000.00

Comm Code	Manufacturer	Specification	Model #
49221532	Henderson Recreation, Miracle Recreation, & Freenotes Harmony Park.	Specifications Attached	B502610R3

Extended Description :

WVSDB ADA Playground

SOLICITATION NUMBER: CRFQ DBS1900000008

Addendum Number: 1

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

Addendum #1 issued to:

1. Provide modified specifications and drawing.
2. Provide copy of the pre-bid sign-in sheet.
3. Provide responses to Vendor questions.

End of Addendum #1

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.



Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

State of West Virginia
 Request for Quotation
 09 - Construction

Proc Folder: 566626

Doc Description: Addendum #2 WV School for the Deaf & Blind ADA Playground

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2019-05-17	2019-05-29 13:30:00	CRFQ 0403 DBS1900000008	3

BID CLERK
 DEPARTMENT OF ADMINISTRATION
 PURCHASING DIVISION
 2019 WASHINGTON ST E
 CHARLESTON WV 25305
 US

Vendor Name, Address and Telephone Number:

Davis Athletics, LLC
 2330 Broad Street
 Parkersburg, WV 26101
 304-428-3000

FOR INFORMATION CONTACT THE BUYER

Stephanie L Gale
 (304) 558-8801
 stephanie.l.gale@wv.gov

Signature X *Med L Davis* FEIN # 41-2171922 DATE 5-29-19

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION:

Addendum #2 issued to:

1. Modify the technical questions deadline to May 22, 2019 @ 10:00am.
2. Modify bid opening date and time to May 29, 2019 @ 1:30pm.
3. Provide response to vendor question.

#End of Addendum #2.

BILL TO		SHIP TO	
ACCOUNTS PAYABLE SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST		CENTRAL SUPPLY SCHOOL FOR THE DEAF & BLIND 301 EAST MAIN ST	
ROMNEY	WV26757-1894	ROMNEY	WV 26757-1894
US		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Playground System	1		\$ 200,000.00	\$200,000.00

Comm Code	Manufacturer	Specification	Model #
49221532	Henderson Recreation, Miracle Recreation, & Freenotes Harmony Park	Specifications Attached	B502610R3

Extended Description :

WWSDB ADA Playground

DBS1900000008	Document Phase Final	Document Description Addendum #2 WV School for the Deaf & Blind ADA Playground	Page 3 of 3
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ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions

SOLICITATION NUMBER: CRFQ DBR1900000015

Addendum Number: 2

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- | Modify bid opening date and time
- | Modify specifications of product or service being sought
- | Attachment of vendor questions and responses
- | Attachment of pre-bid sign-in sheet
- | Correction of error
- | Other

Description of Modification to Solicitation:

Addendum #2 issued to:

1. Modify the technical questions deadline to May 22, 2019 @ 10:00am.
2. Modify bid opening date and time to May 29, 2019 @ 1:30pm.
3. Provide response to vendor question.

#End of Addendum #2.

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

1. In the addendum, you extended the time for questions to noon May 14, 2019; however, the addendum announcing this wasn't released until late May 15, 2019. Please clarify the time for questions.

Questions deadline is May 22, 2019 @ 10:00am.

2. In answering question 1. e. about extending the bid due date, it's states that the "Bid due date can be extended by one week," but didn't state what the bid due date and time actually is or if it is extended. Please clarify.

Bid opening date and time is May 29, 2019 @ 1:30pm

1. The drawing provided in the addendum is illegible. Many of the words and numbers are blurred to where they cannot be read. Please provide a copy of the drawing that is legible.

Please refer to the wording on the initial drawing from the solicitation issuance. Language and wording is unaltered in the revised drawing, with the exception of one additional hex deck at a height of 1 foot and 1 additional ramp to a height of 0 feet. Written specifications have been updated to include the additional parts necessary and provided in Addendum #1.

ADDENDUM ACKNOWLEDGEMENT FORM

SOLICITATION NO.: DBS1900000008

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:

(Check the box next to each addendum received)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6 |
| <input checked="" type="checkbox"/> Addendum No. 2 | <input type="checkbox"/> Addendum No. 7 |
| <input type="checkbox"/> Addendum No. 3 | <input type="checkbox"/> Addendum No. 8 |
| <input type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9 |
| <input type="checkbox"/> Addendum No. 5 | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Davis Athletics, LLC

Company

Michael L. Davis

Authorized Signature

5-29-19

Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.
Revised 6/8/2012

ADDITIONAL TERMS AND CONDITIONS (Construction Contracts Only)

1. CONTRACTOR'S LICENSE: West Virginia Code § 21-11-2 requires that all persons desiring to perform contracting work in this state be licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor's license. Applications for a contractor's license may be made by contacting the West Virginia Division of Labor. West Virginia Code § 21-11-11 requires any prospective Vendor to include the contractor's license number on its bid. If an apparent low bidder fails to submit a license number in accordance with this section, the Purchasing Division will promptly request by telephone and electronic mail that the low bidder and the second low bidder provide the license number within one business day of the request. Failure of the bidder to provide the license number within one business day of receiving the request shall result in disqualification of the bid. Vendors should include a contractor's license number in the space provided below.

Contractor's Name: Davis Athletics, LLC
 Contractor's License No.: WV- 039253

The apparent successful Vendor must furnish a copy of its contractor's license prior to the issuance of a contract award document.

2. DRUG-FREE WORKPLACE AFFIDAVIT: W. Va. Code § 21-1D-5 provides that any solicitation for a public improvement contract requires each Vendor that submits a bid for the work to submit an affidavit that the Vendor has a written plan for a drug-free workplace policy. If the affidavit is not submitted with the bid submission, the Purchasing Division shall promptly request by telephone and electronic mail that the low bidder and second low bidder provide the affidavit within one business day of the request. Failure to submit the affidavit within one business day of receiving the request shall result in disqualification of the bid. To comply with this law, Vendor should complete the enclosed drug-free workplace affidavit and submit the same with its bid. Failure to submit the signed and notarized drugfree workplace affidavit or a similar affidavit that fully complies with the requirements of the applicable code, within one business day of being requested to do so shall result in disqualification of Vendor's bid. Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

2.1. DRUG-FREE WORKPLACE POLICY: Pursuant to W. Va. Code § 21-1D-4, Vendor and its subcontractors must implement and maintain a written drug-free workplace policy that complies with said article. The awarding public authority shall cancel this contract if: (1) Vendor fails to implement and maintain a written drug-free workplace policy described in the preceding paragraph, (2) Vendor fails to provide information regarding implementation of its drug-free workplace policy at the request of the public authority; or (3) Vendor provides to the public authority false information regarding the contractor's drug-free workplace policy.

Pursuant to W. Va. Code 21-1D-2(b) and (k), this provision does not apply to public improvement contracts the value of which is \$100,000 or less or temporary or emergency repairs.

CONTRACTOR LICENSE

Authorized by the
West Virginia Contractor Licensing Board

Number: WV039253

Classification:
GENERAL BUILDING

DAVIS ATHLETICS LLC
DBA DAVIS ATHLETICS LLC
2330 BROAD ST
PARKERSBURG, WV 26101

Date Issued

JULY 20, 2018

Expiration Date

JULY 20, 2019


Authorized Company Signature


Chair, West Virginia Contractor
Licensing Board



WEST VIRGINIA
CONTRACTOR
LICENSING
BOARD

This license, or a copy thereof, must be posted in a conspicuous place at every construction site where work is being performed. This license number must appear in all advertisements, on all bid submissions and on all fully executed and binding contracts. This license cannot be assigned or transferred by licensee. Issued under provisions of West Virginia Code, Chapter 21, Article 11.

Subcontractor List Submission (Construction Contracts Only)

Bidder's Name: Davis Athletics, LLC

Check this box if no subcontractors will perform more than \$25,000.00 of work to complete the project.

Subcontractor Name	License Number if Required by W. Va. Code § 21-11-1 et. seq.
N/A	

Attach additional pages if necessary

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

John R Davis, Owner / Managing Member

 (Name, Title)
 John R Davis , Owner/Managing Member

 (Printed Name and Title)
 2330 Broad Street Parkersburg, WV 26101

 (Address)
 (304-428-3000) / (304-428-3002)

 (Phone Number) / (Fax Number)
 davisathletics1@gmail.com

 (email address)

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Davis Athletics, LLC

 (Company)
John R Davis, Owner / Managing Member

 (Authorized Signature) (Representative Name, Title)

 John R Davis , Owner/Managing Member

 (Printed Name and Title of Authorized Representative)

 May 29, 2019

 (Date)
 (304-428-3000) (304-428-3002)

 (Phone Number) (Fax Number)

REQUEST FOR QUOTATION
Playground Equipment and Poured in Place Safety Surfacing

11. FACILITIES ACCESS: Performance of Contract Services may require access cards and/or keys to gain entrance to Agency's facilities. In the event that access cards and/or keys are required:

- 11.1. Vendor must identify principal service personnel which will be issued access cards and/or keys to perform service.
- 11.2. Vendor will be responsible for controlling cards and keys and will pay replacement fee, if the cards or keys become lost or stolen.
- 11.3. Vendor shall notify Agency immediately of any lost, stolen, or missing card or key.
- 11.4. Anyone performing under this Contract will be subject to Agency's security protocol and procedures.
- 11.5. Vendor shall inform all staff of Agency's security protocol and procedures.

12. MISCELLANEOUS:

12.1. **Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

Contract Manager: John R Davis

Telephone Number: 304-428-3000

Fax Number: 304-428-3002

Email Address: davisathletics1@gmail.com

EXHIBIT A – PRICING PAGE
West Virginia School for Deaf and Blind
ADA Playground

Name of Vendor:

Davis Athletics, LLC

Address of Vendor:

2330 Broad Street
Parkersburg, WV 26101

Phone Number of Vendor:

304-428-3000

WV Contractors License No.

WV- 039253

We, the undersigned, having examined the site and being familiar with the local conditions affecting the cost of the work and also being familiar with the general conditions to bidders, drawings, and specifications, hereby proposes to furnish all materials, equipment, and labor to complete all work in a workmanlike manner, as described in the Bidding documents.

Total Bid Amount

The Total Bid Amount shall consist of all the work described and contained in the Construction Documents.

Total Bid Amount:
Lump sum for all labor, materials, and equipment as defined in the Bidding Documents.
Written in numbers.

\$200,000.00

Total Bid Amount:
Lump sum for all labor, materials, and equipment as defined in the Bidding Documents.
Written in words.

Two hundred thousand dollars and no cents.



**State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5**

STATE OF WEST VIRGINIA,
COUNTY OF Wood **, TO-WIT:**

I, Fred L Davis, after being first duly sworn, depose and state as follows:

1. I am an employee of Davis Athletics, LLC; and,
(Company Name)
2. I do hereby attest that Davis Athletics, LLC
(Company Name)

maintains a written plan for a drug-free workplace policy and that such plan and policy are in compliance with **West Virginia Code §21-1D**.

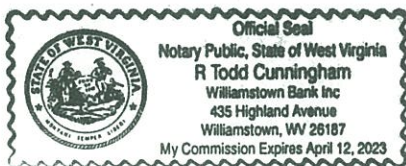
The above statements are sworn to under the penalty of perjury.

Printed Name: Fred L Davis
 Signature: *Fred L Davis*
 Title: Owner/Managing Member
 Company Name: Davis Athletics, LLC
 Date: 5-29-19

Taken, subscribed and sworn to before me this 29 day of may, 2019.

By Commission expires 4-12-2023

(Seal)



R. Todd Cunningham
(Notary Public)

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

CONSTRUCTION CONTRACTS: Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

ALL CONTRACTS: Under W. Va. Code §5A-3-10a, 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: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: Davis Athletics, LLC

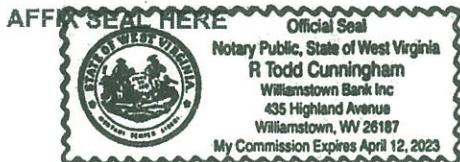
Authorized Signature: *Med J Davis* Date: 5-27-19

State of WV

County of WOOD, to-wit:

Taken, subscribed, and sworn to before me this 29 day of May, 2019

My Commission expires APRIL 12, 2023



NOTARY PUBLIC *R Todd Cunningham*

State of West Virginia



Certificate

*I, Betty Ireland, Secretary of State of the
State of West Virginia, hereby certify that*

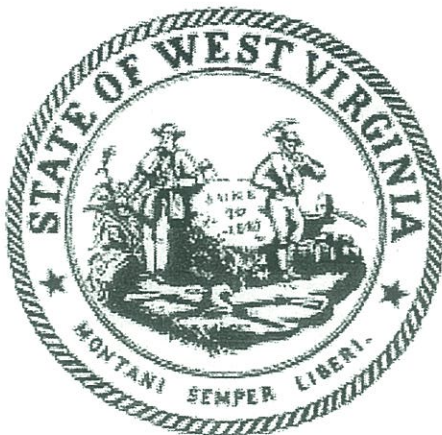
DAVIS ATHLETICS, LLC

Control Number: 74851

has filed its "Articles of Organization" in my office according to the provisions of West Virginia Code §§31B-2-203 and 206. I hereby declare the organization to be registered as a limited liability company from its effective date of March 31, 2005 until the expiration of the term or termination of the company.

Therefore, I hereby issue this

CERTIFICATE OF A LIMITED LIABILITY COMPANY



*Given under my hand and the
Great Seal of the State of
West Virginia on this day of
March 31, 2005*

Betty Ireland

Secretary of State

CNA SURETY

Bid Bond

Bond No. 72160878

CONTRACTOR:

(Name, legal status and address)
Davis Athletics, LLC

LLC

2330 Broad St.,
Parkersburg, WV 26101

OWNER:

(Name, legal status and address)
State of West Virginia Dept. of
Administration Purchasing Division

2019 Washington St. East

Charleston, WV 25305

BOND AMOUNT: Five Percent of Amount Bid
5.0% of Amount Bid

PROJECT:

(Name, location or address, and Project number, if any)
WV School For The Deaf & Blind ADA Playground

SURETY:

(Name, legal status and principal place
of business)

WESTERN SURETY COMPANY
South Dakota Corporation
151 North Franklin
17th Floor
Chicago, IL 60606

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 22nd day of May, 2019.

Kathleen D. Edme
(Witness)

Davis Athletics, LLC
(Principal) Med L Davis (Seal)
(Title) owner/Managing Member

Kathleen D. Edme
(Witness)

WESTERN SURETY COMPANY
(Surety) John Thomas Ballway (Seal)
(Title) JOHN THOMAS BALLWAY Attorney-in-Fact



GENERAL INFORMATION

Purpose. AIA Document A310—2010 establishes the maximum penal amount that may be due the Owner if the Bidder fails to execute the contract and to provide the required performance and payment bonds, if any. It provides assurance that, if a bidder is offered a contract based on its tendered proposal but fails to enter into the contract, the Owner will be paid the difference in cost to award the contract to the next qualified bidder, so long as the difference does not exceed the maximum penal amount of the bond.

Related Documents. A310 is not incorporated by reference into other AIA documents. For further reference on bonding procedures, see AIA Document A701™—1997, Instructions to Bidders; and AIA Document G612™—2001, Owner's Instructions to Architect.

Use of Non-AIA Forms. AIA Document A310 may be used with any appropriate AIA or non-AIA document. CAUTION SHOULD BE EXERCISED BEFORE ITS USE TO VERIFY ITS COMPLIANCE WITH CURRENT LAWS AND REGULATIONS BY CONSULTING WITH AN ATTORNEY OR A BOND SPECIALIST.

USING A310—2010

Modifications. Particularly with respect to professional or contractor licensing laws, building codes, taxes, monetary and interest charges, arbitration, indemnification, format and font size, AIA Contract Documents may require modification to comply with state or local laws. Users are encouraged to consult an attorney before completing or modifying a document.

In a purchased paper AIA Contract Document, necessary modifications may be accomplished by writing or typing the appropriate terms in the blank spaces provided on the document, or by attaching Supplementary Conditions, special conditions or referenced amendments.

Modifications directly to purchased paper AIA Contract Documents may also be achieved by striking out language. However, care must be taken in making these kinds of deletions. Under NO circumstances should standard language be struck out to render it illegible. For example, users should not apply blocking tape, correction fluid or Xs that would completely obscure text. Such practices may raise suspicion of fraudulent concealment, or suggest that the completed and signed document has been tampered with. Both parties should initial handwritten changes.

Using AIA software, modifications to insert information and revise the standard AIA text may be made as the software permits.

By reviewing properly made modifications to a standard AIA Contract Document, parties familiar with that document can quickly understand the essence of the proposed relationship. Commercial exchanges are greatly simplified and expedited, good faith dealing is encouraged, and otherwise latent clauses are exposed for scrutiny.

AIA Contract Documents may not be retyped or electronically scanned. Retyping can introduce typographic errors and cloud legal interpretation given to a standard clause. Furthermore, retyping and electronic scanning are not permitted under the user's limited license for use of the document, constitute the creation of a derivative work and violate the AIA's copyright.

Identification of the Parties. The Contractor, the Surety, and the Owner should be identified using their respective full names and addresses or legal titles under which the bond is to be executed. The state in which the Surety is incorporated also should be identified in the space provided.

Bond Amount. The dollar amount of the bond should be provided in both written and numerical form.

Project Description. The proposed project should be described in sufficient detail to identify (1) the official name or title of the facility; (2) the location of the site; (3) the proposed building type, size, scope or usage; and (4) the project number required by the owner, if any. A project number may be required by certain public owners to adequately identify the project to which the bond pertains.

Execution of the Bond. The bond must be signed by both the Contractor and the Surety. The parties executing (signing) the bond should print their title and impress their corporate seal, if any. Where appropriate, attach a copy of the resolution or bylaw authorizing the individual to act on behalf of the firm or entity. As to the Surety, this usually takes the form of a power of attorney issued by the Surety company to the bond producer (agent) who signs on its behalf.

Western Surety Company

POWER OF ATTORNEY - CERTIFIED COPY

Bond No. 72160878

Know All Men By These Presents, that WESTERN SURETY COMPANY, a corporation duly organized and existing under the laws of the State of South Dakota, and having its principal office in Sioux Falls, South Dakota (the "Company"), does by these presents make, constitute and appoint JOHN THOMAS BALLWAY

its true and lawful attorney(s)-in-fact, with full power and authority hereby conferred, to execute, acknowledge and deliver for and on its behalf as Surety, bonds for:

Principal: Davis Athletics, LLC

Obligee: State of West Virginia Dept. of Administration Purchasing Division

Amount: \$1,000,000.00

and to bind the Company thereby as fully and to the same extent as if such bonds were signed by the Vice President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming all that the said attorney(s)-in-fact may do within the above stated limitations. Said appointment is made under and by authority of the following bylaw of Western Surety Company which remains in full force and effect.

"Section 7. All bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys in Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile."

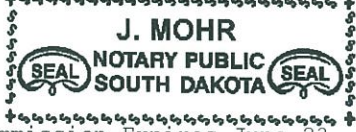
If Bond No. 72160878 is not issued on or before midnight of August 22, 2019, all authority conferred in this Power of Attorney shall expire and terminate.

In witness whereof Western Surety Company has caused these presents to be signed by its Vice President, Paul T. Bruflat, and its corporate seal to be affixed this 22nd day of May, 2019.



WESTERN SURETY COMPANY
Paul T. Bruflat
Paul T. Bruflat, Vice President

On this 22nd day of May, in the year 2019, before me, a notary public, personally appeared Paul T. Bruflat, who being to me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of WESTERN SURETY COMPANY and acknowledged said instrument to be the voluntary act and deed of said corporation.



J. Mohr
Notary Public - South Dakota

I the undersigned officer of Western Surety Company, a stock corporation of the State of South Dakota, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable, and furthermore, that Section 7 of the bylaws of the Company as set forth in the Power of Attorney is now in force.

In testimony whereof, I have hereunto set my hand and seal of Western Surety Company this 22nd day of May, 2019.

WESTERN SURETY COMPANY
Paul T. Bruflat
Paul T. Bruflat, Vice President

To validate bond authenticity, go to www.cnasurety.com > Owner/Obligee Services > Validate Bond Coverage.

WEST VIRGINIA SCHOOLS FOR THE DEAF AND BLIND



Model No. B502610R3

Posts | Blue Roofs - Blue & Yellow
 Accents | Yellow
 Roto-Molded Plastic | Blue
 HDPE Plastic | Blue-White-Blue

Components

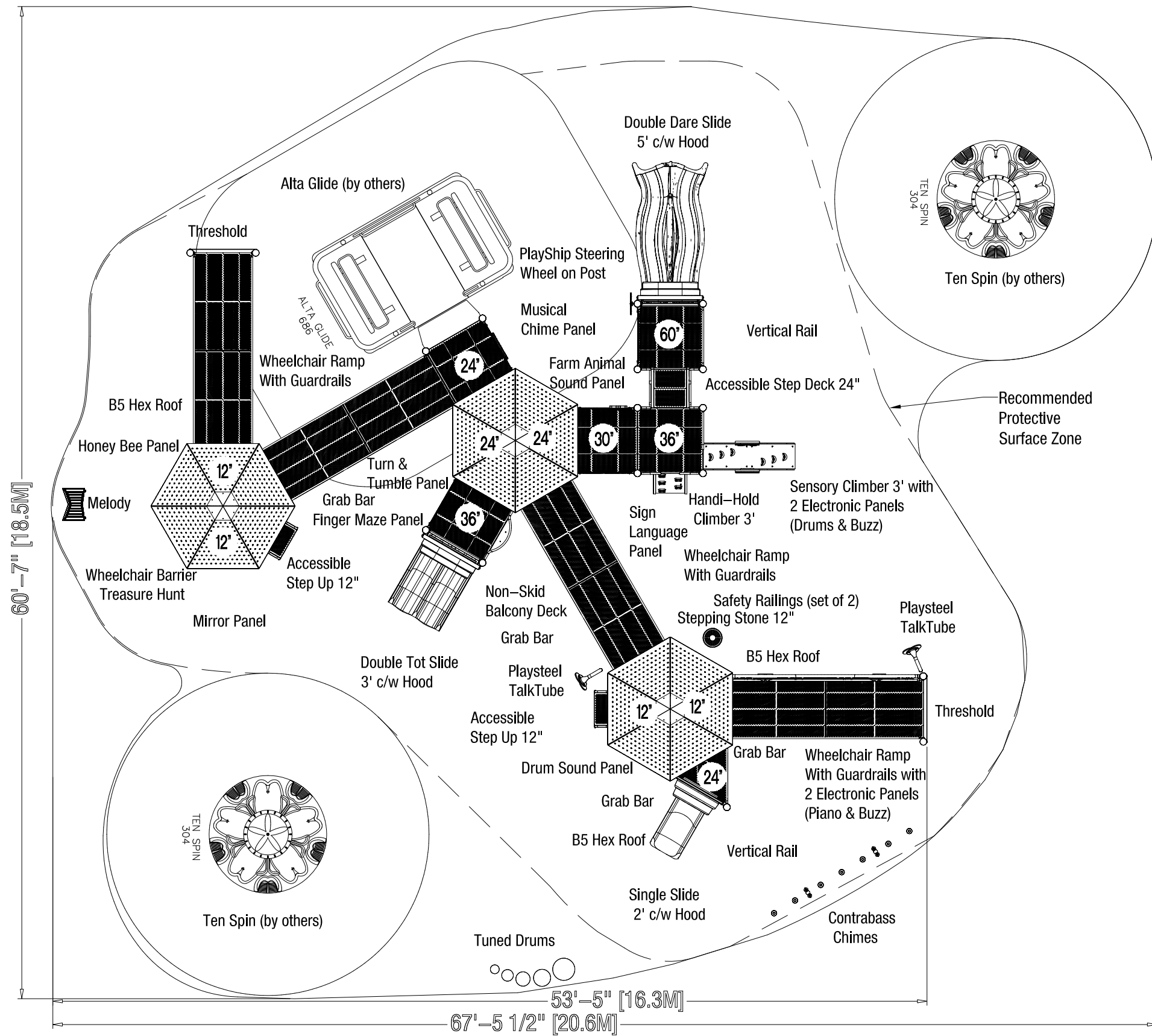
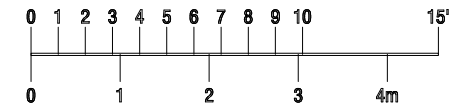
Quantity	Desc	1	2	3	4	5	6
1	Alphabet Panel	Drum Sound Panel	Infill Panel 6"	2	Double Slide Plastic Hood		
1	Mirror Panel	Farm Animal Sound Panel	Infill Panel 12"	2	Double Tot Slide 3'		
1	Sign Language Panel	Stepping Stone 12"	Safety Railings (set of 2)	1	Double Dare Slide 5'		
2	Vertical Rail	3 Wheelchair Ramp With Guardrails	2 Wheelchair Barrier	1	Single Slide 2'		
1	Musical Chime Panel	1 Handi-Hold Climber 3'	2 Threshold	1	Accessible Step Deck 24"		
1	Maze Wheel Mini Panel	1 3FT SENSORY CLIMBER	4 Grab Bar	2	Accessible Step Up 12"		
1	Honey Bee Panel	1 Non-Skid Balcony Deck	3 B5 Hex Roof	1	INCLUSIVE WHEELCHAIR RAMP WITH GUARDRAILS		
1	Treasure Hunt	5 Square Deck	2 Playsteel TalkTube (1 only)				
1	Turn & Tumble Panel	1 Triangle Deck	1 PlayShip Steering Wheel on Post				
1	Finger Maze Panel	6 Half Hex Deck	1 Single Slide Plastic Hood				



Henderson[®]
 Providing Playground Fun



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 1-800-265-5462 | Fax 519-426-1132 | www.hendersonplay.com
 11 Gilbertson Drive, Simcoe, Ontario, Canada, N3Y4K8
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Model No. B502610R3

Davis Athletics
West Virginia Schools for the Deaf and Blind

Henderson Recreation Equipment Ltd.
PO Box 68, 11 Gilbertson Drive
Simcoe, ON, Canada, N3Y 4K8
T. 1.800.265.5462
F. 519.426.9380
www.hendersonplay.ca

Salesperson | F.D.
Drawn By | R.H.
Date Drawn | June 12, 2018
Revised By | TD
Revision Date | 05/22/2019

Product Line | Playsteel MAX
Standard Compliance | ASTM F 1487, CPSC
Best User Age | 5 to 12 yrs.
Protective Surfacing Type | Poured Rubber
Accessibility | ADA Compliant

Border Area | 3070 SQ/FT
Border Perimeter | 225'
Installation Type | Inground

WARNING: All play equipment shall have a protective surfacing zone that consists of an obstacle free soft resilient surfacing, as specified for each type of equipment and at depths to meet the critical fall heights as specified by the CAN/CSA Z614, ASTM F1487 and the U.S. Consumer Product Safety Commission.

WARRANTY

Lifetime

limited warranty on steel support posts against structural failure due to deterioration caused by defects in materials or manufacturing.*

Lifetime

limited warranty on Bolt-N-Go direct-bolt fastening systems against structural failure due to corrosion or deterioration caused by defects in materials or manufacturing.*

20 Year

limited warranty on aluminum post caps and Orbis aluminum clamps against structural failure caused by defects in material or workmanship.*

15 Year

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

10 Year

limited warranty on polyethylene components, sheet plastic, and decks against structural failure due to corrosion or deterioration caused by defects in materials or manufacturing.

10 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.*

5 Year

limited warranty on Berliner Rope Play steel-core ropes and rubber components against structural failure caused by defects in material or workmanship.*

One Year* General Warranty

Henderson Recreation warrants that all products not listed above will be free from defects in materials or manufacturing for one year.

General Warranty Terms

All warranty periods start at the invoice date. If any breach of this warranty occurs within the applicable warranty period, upon proper notification in writing of the defect, Henderson Recreation will, at its option, either repair or replace the defective product or part. Henderson Recreation will provide a repaired or replacement product or part under the terms of this warranty free of charge, but will not be responsible for any freight costs associated with the warranty claim or any labour or other costs associated with dismantling the defective product or part or installing the replacement product or part. A replacement product or part provided pursuant to this warranty will be guaranteed only for the balance of the warranty period applicable to the original product or part.

Warranty Claims

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

* Items Not Covered By the Warranty

The following are not covered by the warranty: (i) products that are not installed in conformity with the layout plan and/or installation instructions provided by Henderson Recreation; (ii) products that have not been regularly inspected, maintained and serviced and in accordance with Henderson Recreation's instructions; (iii) products that have been subjected to misuse, abuse, negligence or accident; (iv) products that have been subjected to modification, alteration, repair or addition or substitution of parts by persons other than Henderson Recreation or Henderson Recreation's designees, in a manner which, in the sole judgment of Henderson Recreation, affects the operation or condition of the products; (v) products that have been moved after the initial installation; (vi) damage resulting from vandalism or abnormal use; (vii) damage resulting from Acts of God (such as lightning, tornadoes, etc.) or environmental factors (such as salt water, chemical sprays, etc.); (viii) damage due to normal wear and tear; and (ix) cosmetic issues, including but not limited to scratches, dents, marring, natural fading or fading of colours, discolouration 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). For the purpose of this paragraph, "weathering" does not include fungal decay or rot of any type, while "fungal decay" and "rot" 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.

Liability Exclusions

THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF CONDITION, DESCRIPTION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO REPRESENTATION, WHETHER ORAL OR WRITTEN, OF ANY HENDERSON RECREATION REPRESENTATIVE MAY ALTER OR AMEND OR BE SUBSTITUTED FOR THIS WARRANTY.

TO THE EXTENT PERMITTED BY LAW, IN NO EVENT WILL HENDERSON RECREATION BE LIABLE IN CONNECTION WITH ANY PRODUCT FOR (A) ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON TORT, CONTRACT OR OTHER LEGAL THEORY AND WHETHER OR NOT ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR (B) ANY DAMAGES WHATSOEVER IN EXCESS OF AN AMOUNT EQUAL TO THE PURCHASE PRICE FOR SUCH PRODUCT.

Product Replacement

Henderson Recreation 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.



Henderson®
Providing Playground Fun

P.O. Box 68, 11 Gilbertson Drive
Simcoe, ON Canada N3Y 4K8
1.800.265.5462 | www.hendersonplay.ca

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Fibar®PIP
Poured-In-Place Playground Safety Surface
5-Year / 3-Year Limited Warranty
Effective January 1, 2019

Limited Warranty: Other than stated herein to the contrary, The Fibar Group, LLC (“Fibar”), as seller of the FibarPIP Poured-in-Place Playground Safety Surface (the “System”), makes no warranties with respect to its product or their merchantability or fitness for a particular purpose. No representative has authority to make any representation, promise or agreement except as expressly set forth herein. The limited warranties described in this guide are not transferable and are subject to the product applications, limitations, disclaimers and exclusions described below and are effective for surfacing installation projects occurring on or after the effective date set forth below.

Who Is Covered? All warranties in this Limited Warranty are given only to the original customer who installed our System and specifically acknowledged receipt of this Limited Warranty.

What Is Covered and For How Long? This limited warranty covers workmanship and product degradation of the System for a period of five (5) years. This limited warranty also covers impact attenuation below 1,000 HIC and 200 G for a period of three (3) years. The limited warranty commences on the date the System installation is completed. This limited warranty includes only Fibar’s obligation to repair and/or replace any defective materials or workmanship in the System’s surface area(s) that have failed during the warranty period. A failed area or failed areas is defined solely as (a) edge raveling, (b) bubbling, (c) delamination, (d) peeling, (e) impact attenuation above 1,000 HIC or 200 G and such other events arising without intervening acts or events of any kind.

Color fading and shrinkage of less than 3/8” is not a product degradation covered by this limited warranty. Any damages to the surface during the curing period will be repaired or paid for at the Customer’s sole cost and expense.

Conditions: This Limited Warranty is conditioned upon the System being installed by Fibar and maintained by the Customer in accordance with the written instructions provided by Fibar. Also refer to (i) *What Could Invalidate the Limited Warranty*; (ii) *What Is Fibar*

Not Responsible For; (iii) *No Representation as to Use Design*; and (iv) *Other Exclusions*.

What Could Invalidate The Limited Warranty?

Customer agrees that it will not directly or indirectly allow any alterations to be made to the System absent the express written consent from FIBAR. Any unauthorized alteration by the Customer shall result in the immediate termination of all warranties for the surfacing system and shall also give rise to the duty of the Customer to hold harmless, defend and indemnify FIBAR from any claim, suit or cause of action, personal injury, death, or property damage arising out of or related to said unauthorized alteration. If the contract price is not paid in a timely manner as per the terms and conditions of the agreed contract, the limited warranty is automatically voided.

What Is FIBAR Not Responsible For?

FIBAR is under no obligation or responsibility to repair and/or replace the System if damaged by vandalism, negligence, accidents, misuse or abuse (including cuts, burns, gouges, chemical spills, etc.), improper or lack of maintenance, foreign residue that may be deposited on the surface such as sand or dirt, normal wear and tear, damage from sharp or pointed objects that are not permitted on or about the floor covering (e.g. *high heels, athletic shoe spikes, knives, kitchen utensils, shovels, ice picks, garden tools, tent pegs, broken glass, torn aluminum cans, etc.*) and sloped areas over 15% grade. The following chemicals can cause damage to the System: chlorine, diesel, hydraulic and lubricating oils, weak acids and organic solvents.

No Representation as to Use Design: FIBAR is not responsible for designing the playground Use Zones which are the responsibility of Customers’ engineers, architects, contractors and designers. Use Zones are defined under ASTM F 1487, Standard Consumer Safety Performance Specification for Play Equipment for Public Use. The standard can be accessed purchased from www.ASTM.org

Other Exclusions: This limited warranty does not cover (i) damage during the curing process (ii) normal wear-and-tear (specifically in high-use areas under swings and at slide exits), (iii) problems caused by cracking, shifting or lifting of the substrate over which the System was installed; (iv) other damage caused by

other parties (e.g., contractors, architects, designers, engineers) in violation of applicable federal laws, state or local housing laws or building codes (i.e., alterations, improper slab or base or sub-base design or construction, improper drainage, etc.); (v) damage caused by fire, flooding, and other natural disasters and Acts of God; or (vi) changed impact attenuation characteristics created by sand or dirt or other materials tracked onto the System surface; (vii) damage due to pressure washing or snow removal; or (viii) damage caused by improper cleaning methods or not done in accordance with our Maintenance Instructions.

Winter Conditions. Should there be moisture retention in the FibarPIP, it will freeze if the temperature drops below the freezing mark. Please check your surface frequently in winter weather. When the surface is frozen, the impact attenuation properties of the FibarPIP are lost, and for this reason, the play area should not be used.

What Is Customer Responsible For To Preserve The Limited Warranty? FIBAR recommends that a top coat of aliphatic binder is applied to the EPDM surface every 18 months. Contact FIBAR for details and costs. All warranty claims must be made in writing to FIBAR within thirty (30) days after Customer becomes aware of the failure, but in no event later than thirty (30) days after the expiration of the warranty period.

Remedies: Should any defects develop in FibarPIP poured-in-place surface within five (5) years or failed impact attenuation within three (3) years, The Fibar Group, LLC hereby agrees to make all repairs and supply the necessary work to correct the defective parts at no cost to the owner/operator. FIBAR will do a timely evaluation of the failure with the Customer to determine the course of action to be taken to repair the System surface as soon as practicable. Any dispute as to whether and to what extent there is System surfacing failure and a subsequent valid warranty claim within the meaning of this Limited Warranty shall be initially handled by joint investigation and discussion between FIBAR and Customer in order to achieve a mutually agreeable solution. If a joint

solution cannot be reached within thirty (30) days, then either the Customer or FIBAR shall submit the matter to a single arbitrator who is a member of the American Arbitration Association and who shall make a determination in accordance with the rules and regulation of said American Arbitration Association. The decision of said arbitrator shall be binding on both parties, non-appealable and may include an award of attorneys' fees and costs to the prevailing party, if warranted.

DISCLAIMER FOR DAMAGES

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, IN NO EVENT SHALL THE COMPANY OR ITS SUPPLIERS BE LIABLE FOR ANY DAMAGES WHATSOEVER (INCLUDING WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR INDIRECT DAMAGES FOR PERSONAL INJURY, LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, LOSS OF BUSINESS INFORMATION, OR ANY OTHER PECUNIARY LOSS) ARISING OUT OF THE USE OF OR INABILITY TO USE THIS PRODUCT, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN ANY CASE, THE COMPANY'S AND ITS SUPPLIERS' ENTIRE LIABILITY UNDER ANY PROVISION OF THIS AGREEMENT SHALL BE LIMITED TO THE AMOUNT ACTUALLY PAID BY YOU FOR THE PRODUCT. BECAUSE SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Maintenance Instructions

FibarPIP Poured-In-Place Rubber Surface

It is very important to maintain your FibarPIP poured-in-place surface in order for the surface to perform as intended for both impact attenuation and durability. The end-user should develop a comprehensive maintenance program and a written guide for their trained staff to follow. This applies to both equipment and surfacing maintenance. The National Parks & Recreation Association (NRPA) offers a two-day Playground Maintenance Program to train front-line maintenance staff to identify and correct playground safety issues. All playground maintenance staff should complete this program. Information about the program can be found at www.nrpa.org/certification/CPSI.

Please find below the steps to follow to properly maintain your FibarPIP playground surface.

Fibar Aliphatic Top Coat – In order to maintain your top EPDM surface, Fibar recommends that a roll coat of Fibar Aliphatic Binder Composition be applied to the entire top surface every 18 months. This cost is not included in your original purchase price. Please see your Fibar representative or contact Fibar at 800-342-2721 for more details.

Debris in the EPDM Top Surface

Keeping the surface clean of debris is critical in maintaining the product. Sand, dirt, organic material (leaves, twigs, etc.), and gum are only a few examples of items which must be cleaned from the surface. If not removed, these particles can work their way into the top EPDM surface, which can severely reduce or eliminate the impact attenuation properties of the surface.



If the impact attenuation changes due these contaminants, serious injury or death can occur, and the playground should not be used until the surface is cleaned and the particles removed.

Drainage Effect of Debris in the EPDM top Surface

If these contaminants are allowed to accumulate in the EPDM top surface, drainage can also be affected. FibarPIP is a porous system that allows water to flow through the top and bottom rubber surfaces. If those drainage channels are clogged, the surface may not drain properly and retain water.



If the surface does not drain, water may damage the properties of the rubber binding agents, and may lead to cracking in the EPDM top surface. If the surface retains water, the impact attenuation may be severely reduced or eliminated possibly causing serious injury or death. The playground should not be used until the surface is cleaned and draining properly.

Frequency of Cleaning

Establishing a Maintenance Plan for your FibarPIP surface is critical to preserving the effectiveness of the surface. It is recommended that a regular, periodic system to remove debris be established. **We recommend cleaning the surface every two weeks**, at a minimum. More frequent cleaning will be necessary for heavily used playgrounds or for playgrounds that have a combination of surfaces such as sand or Engineered Wood Fiber.

- **Effective Methods of Cleaning Debris**

Vacuum the surface by using a lawn vacuum or similar device. This will clear the permeable openings in the EPDM top surface. This is the preferred method of cleaning the surface.

- Using a Leaf Blower - Blowing the EPDM top surface with a leaf blower can also be used effectively.
- Close visual inspection is then necessary to ensure that all particles have been removed. Repeat vacuum or blowing procedure until the surface has been totally cleared of all particles.



IMPORTANT: We do not recommend sweeping the surface as it could cause the debris particles to work their way into the EPDM top surface, which could cause more damage to the surface.

Cleaning the EPDM Top Surface After Debris Removal

Periodic cleaning of the EPDM top surface will preserve the appearance of the playground surface. As with any surface, having a routine cleaning schedule is important. Always follow Material Safety Data Sheets (MSDS) for any cleaning products used.

Choosing the correct cleaning product

Using the correct cleaning product is an important aspect of cleaning the playground surface. Here is a partial list of items to be cleaned and the recommended cleaning agent for each.*

- Bird droppings or other excrement — Do not attempt to loosen any dry excrement that is stuck to the surfacing; this could cause disease-causing fungus in the deposition to become airborne. Wear disposable gloves. Remove any loose excrement. Scrub deposits with a damp cloth using Bon Ami™, Boraxo™ or STPP, and then wash with a borax or Sodium Tripolyphosphate (STPP) solution. Soak up residue with disposable rags. Disinfect by spraying on hydrogen peroxide (3% solution), and let stand for at least two minutes, then spraying again with vinegar (5% acid), and let stand for at least two minutes. (Do not mix these together; spray separately for best results.) Soak up residue with disposable rags. Double rinse with clean water.
- Blood — Wear disposable gloves. Remove and disinfect by spraying on hydrogen peroxide and let stand for at least two minutes, then spraying again with vinegar and let stand for an additional two minutes. Soak up residue with disposable rags. Double-rinse with clean water.
- Chewing gum — Apply dry ice (regular ice isn't as effective) to freeze the gum and lightly scrape it from the surface to remove it.
- Gasoline — Wash with a liquid detergent and water. Soak up with disposable rags. Double-rinse with clean water.
- Grass stains — Apply orange oil cleaner, such as Citra-Solv. Work in and soak up with disposable rags. Double- rinse with clean water.

- Moss / Algae / Mildew / Mold — Saturate with hydrogen peroxide (3%) and let stand for at least five minutes. Repeat process using white vinegar. Soak up with disposable rags. Double-rinse with clean water.
- Scuff marks — Scrub with dampened Bon Ami™, Boraxo™, or STPP. Double-rinse with clean water.
- Soda or juice — Saturate with Formula 407™. Work in product; soak up with disposable rags. Then wash with a liquid detergent, Borax™ or STPP solution. Double-rinse with clean water.
- Tar / crayon / lipstick / tree sap / motor oil / grease — Apply one or more of the following: orange oil cleaner, Goop™, or Formula 407™. Work in and soak up with disposable rags. Then sprinkle and scrub with Bon Ami™ cleanser, Borax™ or STPP. Double-rinse with clean water.
- Urine / vomit / nasal discharge — Using disposable gloves, wash with a Borax™ or STPP solution. Soak up residue with disposable rags. Disinfect by spraying on hydrogen peroxide (3%), and let stand for at least two minutes, then spraying again with vinegar, and let stand for an additional two minutes. Do not mix these together; spray separately for best results. Soak up residue with disposable rags. Double-rinse with clean water.

Avoid harmful solvents and cleaning products

The following are effective cleaning agents, but they are **not** recommended on FibarPIP safety surface. They may be detrimental to the surfacing because, over time, they could break down the polyurethane binding component and may lead to de-plasticization of the EPDM rubber. Most cleaning agents are not environmentally friendly. Some also change the appearance of the cleaned area compared to the rest of the surface, or make the surface very slippery. Products to avoid are: ***Acetate, Ammonia, Benzene, Carbon Tetrachloride, Chlorine Bleach, Glycerin, Lighter Fluid, Mineral Spirits, Naphtha, Petroleum Distillates, Turpentine, WD40, Petroleum Jelly.***

Maintenance for Snow, Ice and Winter Conditions

To remove ice or snow, Calcium Chloride is an acceptable solution. Please follow the manufacturer's instructions for proper use.



Winter Conditions. Should there be moisture retention in the FibarPIP, it will freeze if the temperature drops below the freezing mark. Please check your surface frequently in winter weather. When the surface is frozen, the impact attenuation properties of the FibarPIP are lost, and for this reason, the play area should not be used.

The information provided here is taken from **Maintaining Safe Play**, the course manual of the National Playground Safety Institute Playground Maintenance Service Program. Information about this program can be found at www.nrpa.org/cerfication/CPSI/.

Customer Service:

For emergency service, contact your authorized FibarPIP representative or contact The Fibar Group, LLC by email to info@Fibar.com, by telephone at 800-342-2721 or 914- 273-8770; or by facsimile to 914-273-8659.

Alternatively, you can send an email to info@fibar.com or by U.S. Mail to The Fibar Group, LLC, 80 Business Park Drive, Suite 300, Armonk, New York 10504-1705.

Miracle® Limited Warranty



Miracle Recreation Equipment Company warrants its products against structural failure due to defects in materials and workmanship for the warranty periods and material categories prescribed below.

- Limited warranty for as long as you own the product:** Aluminum deck posts, steel deck posts, VersaLok fastening system, and associated fastening hardware.
- Limited fifteen (15) year warranty:** All rigid steel playground components, decks, steps, and weldments, rotationally molded and sheet plastic components, plastic lumber, roof panels, and stainless steel slides, except as otherwise specified below.
- Limited ten (10) year warranty:** Fabric shade steel frames and Shadesure fabrics (Note Exception: Limited Five (5) Year Warranty on Shadesure fabrics in colors Red, Yellow, Electric Purple, Zesty Lime, Cinnamon and Olive.)
- Limited eight (8) year warranty:**
 - Fiberglass signage, accessible swing seats, precast PolyFiberCrete or precast concrete products.
 - Play Terrain Synthetic Turf safety surfacing against deterioration of specified attenuation performance and appearance.
 - Playcover fabric and components against rot, UV deterioration and defects in materials and workmanship (Note Exception: Limited Three (3) Year Warranty for fabric in shades of red).
- Limited five (5) year warranty:**
 - Heavy duty diamond barrier mesh and Kidrox Climbing Rocks.
 - Miratherm PVC coating against cracking or peeling.
 - Park and Site Amenities (i.e. benches, tables, trash receptacles, etc.).
 - Steel core cable nets and rope fittings and connections (Note Exception: Warranty does not cover normal wear and tear such as fraying or fading of cable coating).
- Limited three (3) year warranty:** Flexible belting, plastic border timbers and accessories, and electronic panel speakers, sound chips, and circuit boards.
- Limited one (1) year warranty:**
 - GFRP (Glass Fiber Reinforced Polymer) Products, Slashproof Swing Seats, 360° Bucket Tot Swing Seats, and Tuff Net no climbing mesh.
 - Pool slide support structures, stairways, landings, and railings.
 - All other products and components that are not specifically listed above, including, without limitation, all moving parts, such as swing hangers, swivels, chains, whirls, springs, and flexible components, and all high wear items, such as trolleys, cables, wheels, and bumper stops related to rail and cable ride products.

Buyer's Remedy: If any products prove defective or non-conforming under normal use and within the above-prescribed warranty periods and material categories, Buyer must promptly notify Miracle in writing at 878 E. Hwy 60, Monett, MO 65708 USA. Miracle may elect to inspect the alleged defect at Buyer's site or at Miracle's facility. Buyer shall not return products to Miracle unless authorized by Miracle to do so. Authorized returns must be properly packaged and shipped prepaid and insured, at Buyer's expense. Upon verification of warranty coverage, Miracle may elect, in its sole discretion, to repair defective or non-conforming products, or replace them by delivering products or part(s) free of charge to the site. Miracle's limited warranties do not cover the cost of labor to remove defective or non-conforming part(s) or to install repaired or replacement part(s). By use of these limited warranties, Buyer accepts their terms and limitations, and waives any rights it would otherwise have to claim or assert that such warranties fail of their essential purpose. Buyer agrees that venue for any court action to enforce these limited warranties shall be in Barry or Greene Counties in the State of Missouri.

Limitations: All warranty periods begin on the date of Miracle's invoice. Repaired and/or replacement part(s) are warranted only for the balance of the original limited warranty period. Warranties extend only to the original Buyer/end user for products purchased from Miracle or a Miracle authorized reseller, and are not transferrable.

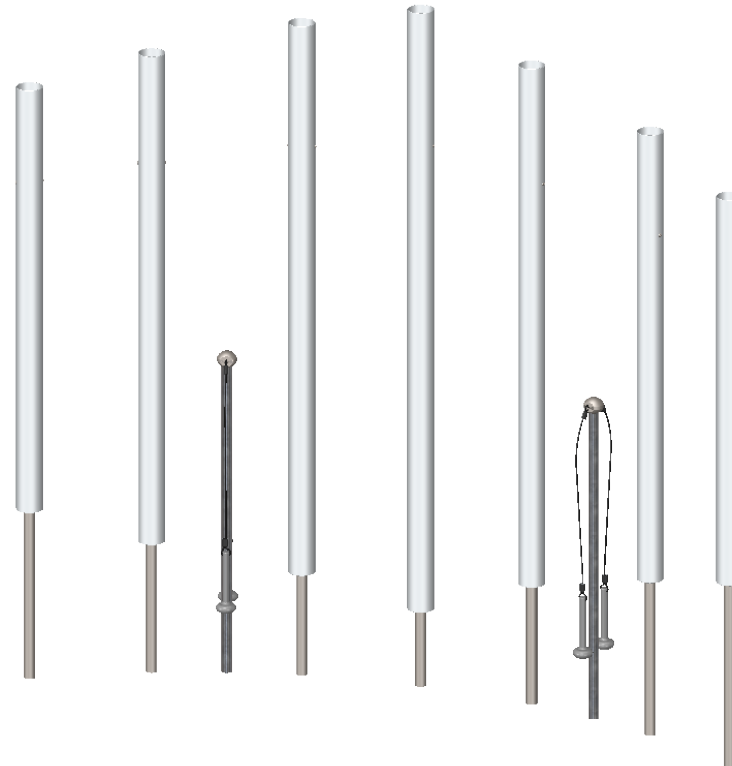
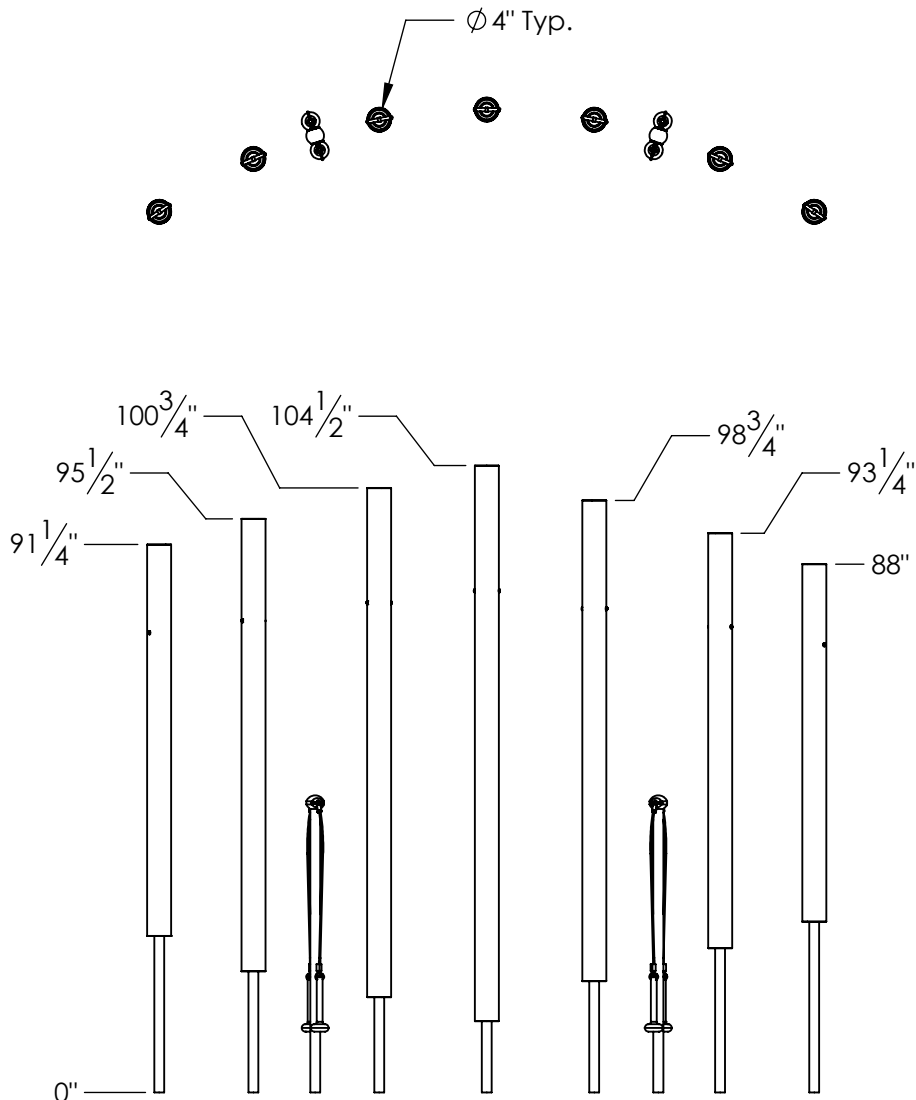
Warranties apply only to Miracle products that are erected and installed in conformance with Miracle's installation instructions, and that are maintained and inspected in conformance with Miracle maintenance and operational instructions.

Warranties specifically do not cover Miracle products:

- for cosmetic damage or flaws occurring under normal use, such as surface scratches, minor chips, hairline cracks, dents, mar-ring, efflorescence, color fade (except for PlayCover® shade fabric as noted above), discoloration, corrosion, fraying, or warping of recycled plastic lumber;
- that have been modified, altered, or repaired by unauthorized third parties;
- that have not been used as designed or intended, or misused;
- to which non-Miracle parts have been added or substituted;
- that have been removed from their original location and re-installed elsewhere, without pre-approval by Miracle;
- or that have been damaged due to excessive wear and tear, vandalism, abnormal use, abuse, negligence, environmental factors (such as wind-blown sand, salt spray, or airborne emissions from industrial sources), extreme weather (such as hail, flooding, lightning, tornados, sandstorms, earthquakes, or wind storms), and acts of God.

THE FOREGOING LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY FOR SELLER'S PRODUCTS, AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, IN LAW OR IN FACT. SELLER SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE OR PURPOSE, AND ANY IMPLIED WARRANTIES ARISING OUT OF COURSE OF DEALING OR PERFORMANCE OR TRADE USAGE. SELLER SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, SPECIAL, OR PUNITIVE DAMAGES, OR ANY LOSS OF REVENUE, PROFIT OR USE, ARISING OUT OF A BREACH OF THIS WARRANTY OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, OPERATION OR REPAIR OF ANY PRODUCT. IN NO EVENT WILL SELLER BE LIABLE FOR ANY AMOUNT GREATER THAN THE PURCHASE PRICE OF A DEFECTIVE PRODUCT.

CONTRABASS CHIMES INSTALLATION GUIDE



Main Features:

- C Major Pentatonic
- Steel Powder Coated Support Poles
- Anodized Aluminum Chimes
- Stainless Steel Hardware

Contents:

- SHEET 2 - In Ground Installation w/ Parts List
- SHEET 3 - Surface Mount Installation w/ Parts List

Weights:

- Instrument Weight, 30-35lbs per chime
- Boxed Instrument Weight, 35-40lbs. per chime
- Mallet Pole Weight, 37lbs.
- Boxed Mallet Pole Weight, 40lbs.

TITLE:
Contrabass Chimes - Installation Guide

DWG. NO. CCH-INSTALL

REVISION: A

SCALE: 1:32

DATE: 2/7/2018

SHEET 1 OF 3

Parts List:

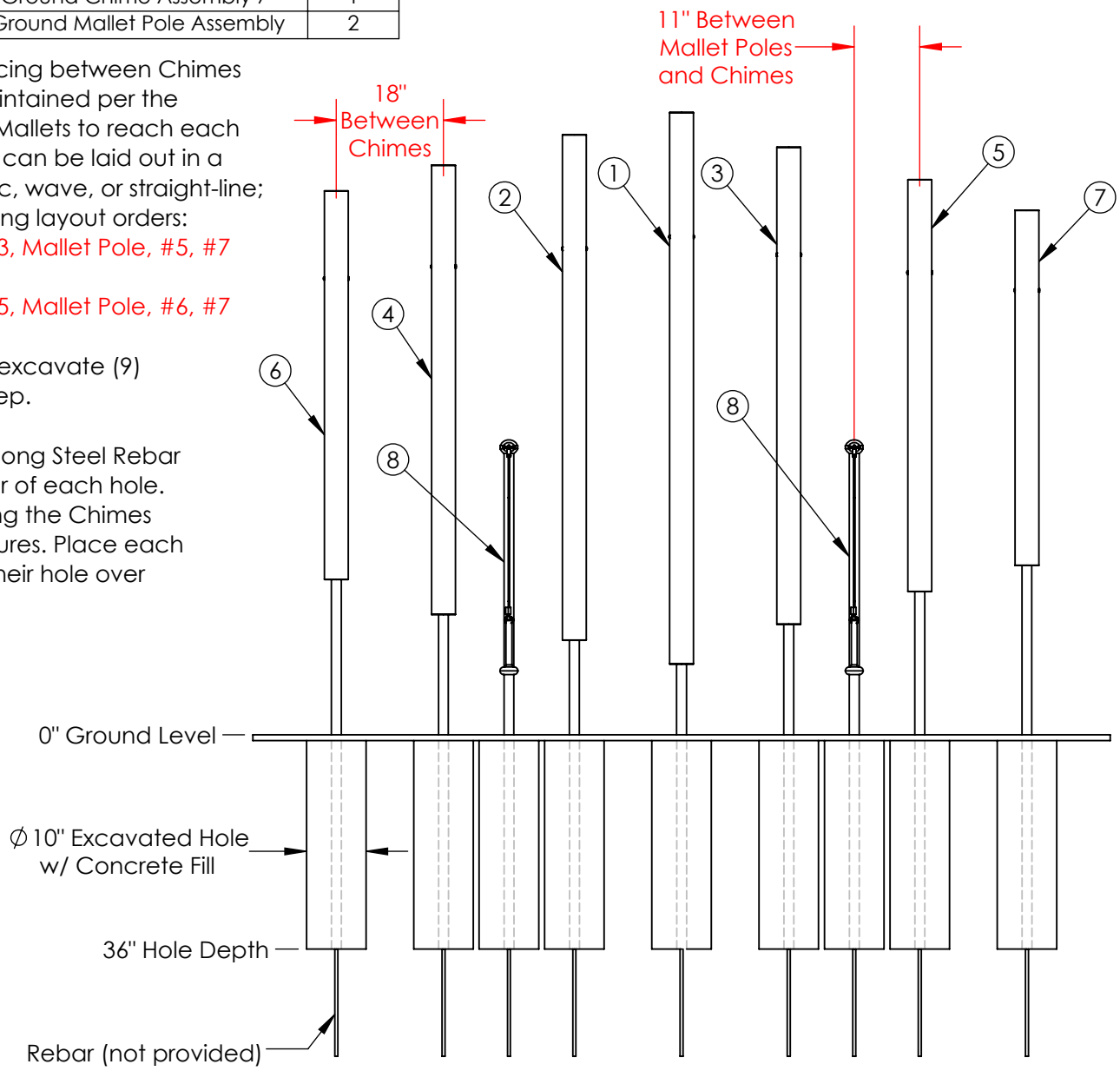
ITEM NO.	DESCRIPTION	QTY.
1	Contrabass Chimes - In Ground Chime Assembly 1	1
2	Contrabass Chimes - In Ground Chime Assembly 2	1
3	Contrabass Chimes - In Ground Chime Assembly 3	1
4	Contrabass Chimes - In Ground Chime Assembly 4	1
5	Contrabass Chimes - In Ground Chime Assembly 5	1
6	Contrabass Chimes - In Ground Chime Assembly 6	1
7	Contrabass Chimes - In Ground Chime Assembly 7	1
8	Contrabass Chimes - In Ground Mallet Pole Assembly	2

Step 1: Determine your layout. Spacing between Chimes and Mallet Poles must be maintained per the diagram shown to allow the Mallets to reach each Chime. Although the Chimes can be laid out in a variety of styles such as an arc, wave, or straight-line; we suggest one of the following layout orders:
 #6, #4, Mallet Pole, #2, #1, #3, Mallet Pole, #5, #7
 or
 #1, #2, Mallet Pole, #3, #4, #5, Mallet Pole, #6, #7

Step 2: After choosing your layout, excavate (9) 10" Diameter holes, at 36" deep.

Step 3 (Optional): Pound 18" of 36" long Steel Rebar (not provided) into the center of each hole. This process helps with keeping the Chimes vertical while the concrete cures. Place each Chime and Mallet Pole into their hole over the rebar.

Step 4: Place each Chime and Mallet Pole into their hole, then pour concrete around the poles within the holes. Check that everything is level. Leave concrete to set according to the concrete manufacturer's guidelines. If necessary, brace the Chimes to hold them rigid during the curing process. Approximately (27) 80lb. bags will be needed.
 (Chimes must be as vertical as possible for best sound)



TITLE: In Ground Installation with Parts List

DWG. NO. CCH-INSTALL

REVISION: A
SCALE: 1:28
DATE: 2/7/2018
SHEET 2 OF 3

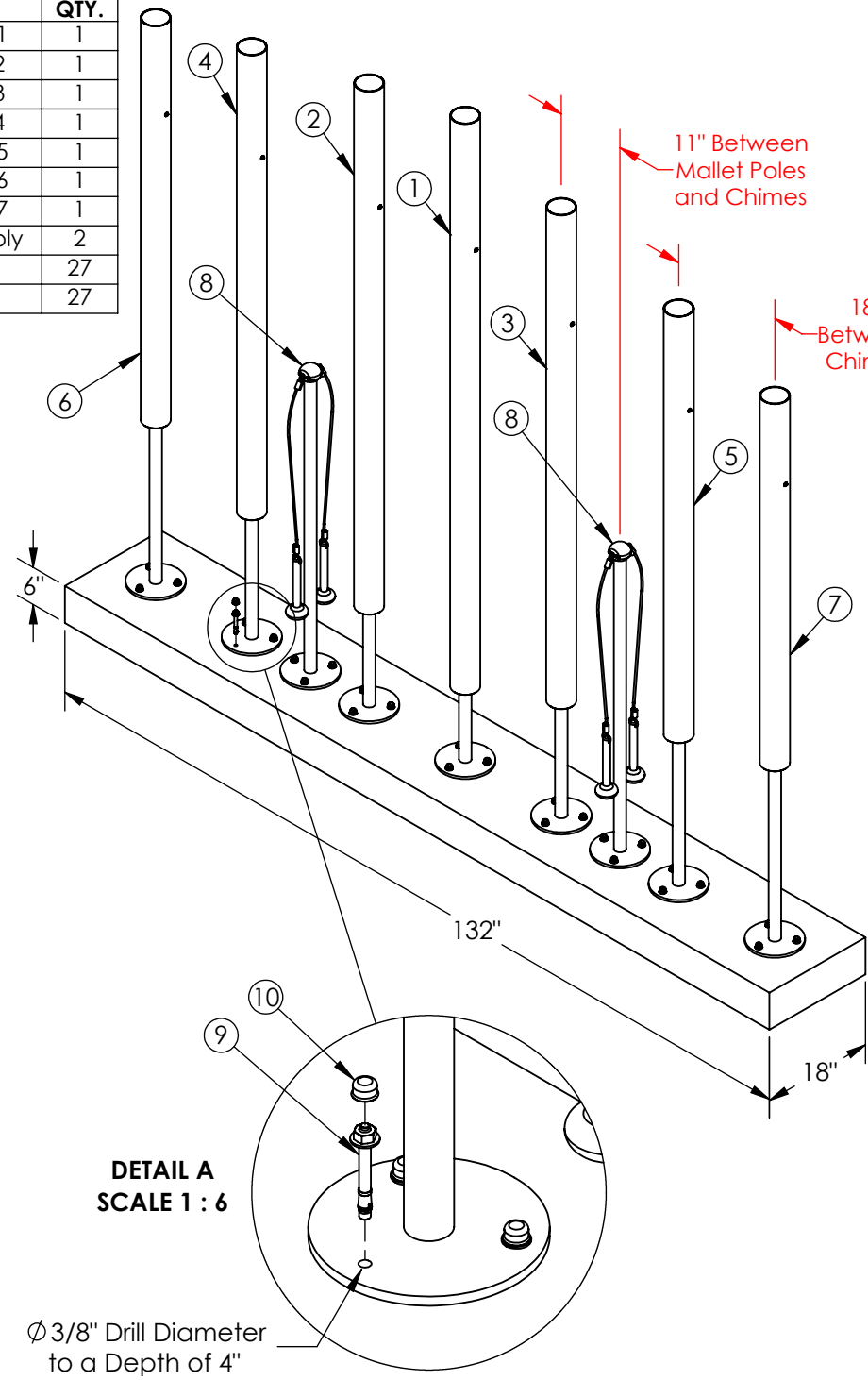
ITEM NO.	DESCRIPTION	QTY.
1	Contrabass Chimes - Surface Mount Chime Assembly 1	1
2	Contrabass Chimes - Surface Mount Chime Assembly 2	1
3	Contrabass Chimes - Surface Mount Chime Assembly 3	1
4	Contrabass Chimes - Surface Mount Chime Assembly 4	1
5	Contrabass Chimes - Surface Mount Chime Assembly 5	1
6	Contrabass Chimes - Surface Mount Chime Assembly 6	1
7	Contrabass Chimes - Surface Mount Chime Assembly 7	1
8	Contrabass Chimes - Surface Mount Mallet Pole Assembly	2
9	3/8"-16 Wedge Expansion Anchor, 3.75"lg. SS	27
10	35/64" Hex Nut Cap	27

Step 1: Determine your layout. Spacing between Chimes and Mallet Poles must be maintained per the diagram shown to allow the Mallets to reach each Chime. Although the Chimes can be laid out in a variety of styles such as an arc, wave, or straight-line; we suggest one of the following layout orders:
 #6, #4, Mallet Pole, #2, #1, #3, Mallet Pole, #5, #7
 or
 #1, #2, Mallet Pole, #3, #4, #5, Mallet Pole, #6, #7

Step 2: Determine installation location. Verify concrete footing is a minimum of 132" long x 18" wide x 6" thick, depending on the layout you go with. If the concrete pad is at an angle, steel washers are required to act as shims (Shims not provided). If there is not already an existing pad, approximately (23) 80lb. bags will be needed. Allow concrete to cure per concrete manufacturers guidelines.

Step 3: With two people place the Chimes and Mallet Poles individually onto the concrete pad and mark the center of the holes on the surface mount plates. After you have made your marks, set aside the Chimes and Mallet poles in order to drill for anchor holes. With a hammer or rotary drill, drill through concrete at marked locations. Drill to a minimum depth of 4". A 3/8" masonry drill bit will be needed.

Step 4: Place the Chimes and Mallet Poles back over the drilled out holes. Insert provided anchor bolts into aligned holes. Position anchor nut so that it is flush with the top of the bolt. Pound anchor bolts into the hole until the anchor washer is flush with the surface mount base. Tighten anchor bolts until they are snug. Cover remaining bolt sections with provided nut caps.



DETAIL A
SCALE 1 : 6

Ø 3/8" Drill Diameter
to a Depth of 4"

ASTM-F1487 COMPLIANCE CERTIFICATE

Organization:

Project:

Model:

Compliance with Play Equipment Standards

Henderson Recreation Equipment Limited warrants that its products are designed and manufactured to meet or exceed the requirements of the most current edition of the ASTM F1487, "Standard Consumer Safety Performance Specification for Playground Equipment for Public Use at the time of installation or shipment of the product.

For a period of 12 months from the date of installation or shipment, should a non-compliance to the Standard be identified that is caused by improper design, manufacturing or original installation procedure, Henderson Recreation Equipment Limited will make the necessary corrections to the equipment at its cost.

This ASTM compliance certificate does not apply when the cause of the non-compliance is the result of the following:

- Oversights by owner/operator or its designated inspectors that are not identified within the 12 month warranty period
- Oversights by third party inspectors that are not identified within the 12 month warranty period
- Failure of owner/operator to report any non-compliance to Henderson Recreation within the 12 month warranty period
- Vandalism

Regarding Supply and Installation of Playground Equipment Only

This will confirm that the play ground equipment offered by Henderson Recreation is designed to comply with the most current edition of CAN/CSA -Z614, a Guideline on Children's Playspaces and Equipment, A National Standard of Canada.

In addition, Henderson Recreation Equipment Limited will undertake to ensure that the installation of the playground equipment proposed complies with the above mentioned standard if the equipment is installed by Henderson Recreation Equipment Limited or its designated agent.

- Abuse
- Damage caused by natural occurrences
- Improper maintenance procedures by owner/operator or designate
- Equipment alterations that are not performed by Henderson Recreation
- Amendments or complete revisions to CAN/CSA-Z614 or ASTM F1487
- Requirements exceeding the scope of CAN/CSA-Z614 or ASTM F1487 that are mandated by various licensing, regulatory or governmental authorities
- Comments and observations offered by play space inspectors related to the design, manufacture and installation of the equipment that exceed or are outside of the scope of CAN/CSA-Z614 or ASTM F1487

Yours truly,



Gordon Henderson, President
Henderson Recreation Equipment Limited



Henderson

recreation equipment limited

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P.O. Box 68, 11 Gilbertson Drive
Simcoe, ON Canada N3Y 4K8
1.800.265.5462 | www.hendersonplay.ca

Rev. 03-13

ASTM-F1487 COMPLIANCE CERTIFICATE

Organization:

Project:

Model:

Compliance with Play Equipment Standards

Henderson Recreation Equipment Limited warrants that its products are designed and manufactured to meet or exceed the requirements of the most current edition of the ASTM F1487, "Standard Consumer Safety Performance Specification for Playground Equipment for Public Use at the time of installation or shipment of the product.

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- Failure of owner/operator to report any non-compliance to Henderson Recreation within the 12 month warranty period
- Vandalism

Regarding Supply and Installation of Playground Equipment Only

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- Requirements exceeding the scope of CAN/CSA-Z614 or ASTM F1487 that are mandated by various licensing, regulatory or governmental authorities
- Comments and observations offered by play space inspectors related to the design, manufacture and installation of the equipment that exceed or are outside of the scope of CAN/CSA-Z614 or ASTM F1487

Yours truly,



Gordon Henderson, President
Henderson Recreation Equipment Limited



Henderson

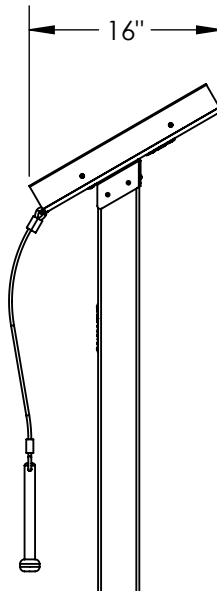
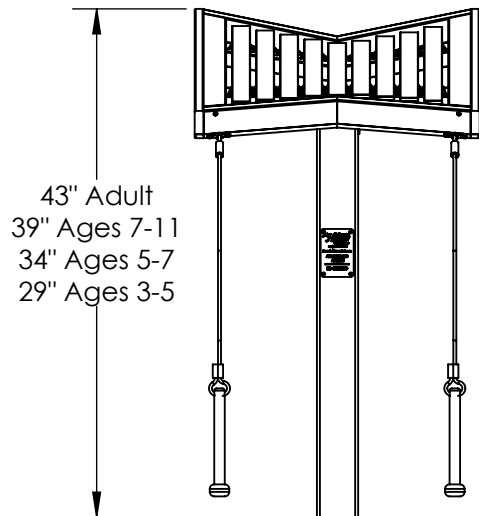
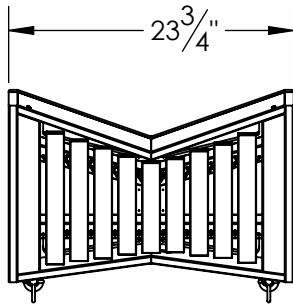
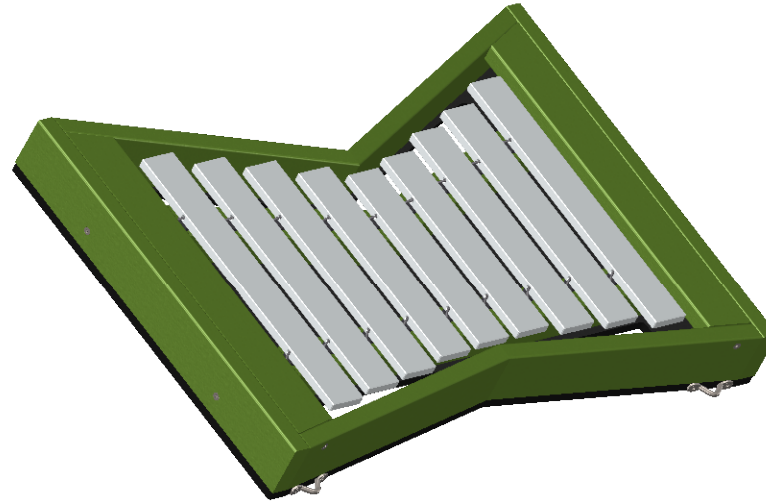
recreation equipment limited

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Rev. 03-13

MELODY INSTALLATION GUIDE



Main Features:

- C Major Diatonic
- Recycled HDPE Frame
- Anodized Aluminum Bars
- Stainless Steel Hardware

Contents:

- SHEET 2 - Parts List and Instrument to Post Installation
- SHEET 3 - In Ground Installation
- SHEET 4 - Surface Mount Installation

Weights:

- Instrument Weight, 18lbs.
- Boxed Instrument Weight, 25lbs.
- Boxed Instrument Post Weight, 20-36lbs.

TITLE:
 Melody - Installation Guide

DWG. NO. MELD-INSTALL

REVISION: B

SCALE: 1:16

DATE: 2/9/2018

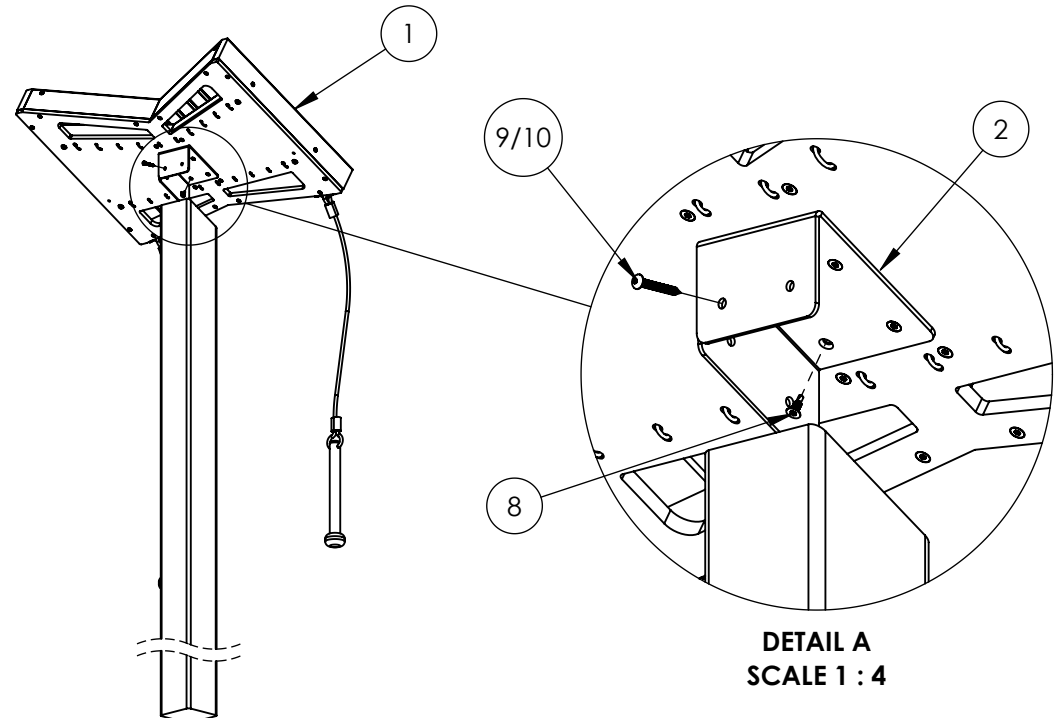
SHEET 1 OF 4

Parts List:

ITEM NO.	PART DESCRIPTION	In Ground - Recycled Post/QTY.	In Ground - Steel Post/QTY.	Surface Mount - Recycled Post/QTY.	Surface Mount - Steel Post/QTY.
1	Melody Instrument Assembly	1	1	1	1
2	Small SS Holster	1	1	1	1
3	In Ground Recycled Post, 72"lg.	1	-	-	-
4	In Ground Steel Post, 72"lg.	-	1	-	-
5	Surface Mount Recycled Post, 36"lg.	-	-	1	-
6	Surface Mount Steel Post, 36"lg.	-	-	-	1
7	Surface Mount Base, For Recycled Post	-	-	1	-
8	#8 Flat Head Screw, .5"lg. SS, T15 tamp	4	4	4	4
9	#8 Button Head Screw, 1.25"lg. SS, T15 tamp	5	-	5	-
10	#10-24 Button Head Machine Screw, 1"lg. SS, T25 tamp	-	5	-	5
11	5/16" Hex Head Lag Bolt, 5"lg. SS	-	-	2	-
12	3/8"-16 Wedge Expansion Anchor, SS	-	-	4	4
13	35/64" Hex Nut Cap	-	-	4	4
14	Security Driver	1	1	1	1

Step 1: Start by mounting the Holster to the Instrument Back with the provided #8 Flat Head Screws and Driver. The Back comes predrilled. Screw heads should be flush with the Holster surface when properly installed. Holster should also be flush along the back. Drive Screws slowly to prevent stripping.

Step 2: With two people, situate the Instrument with Holster installed onto the Post. Posts come predrilled and/or tapped. Fasten the Instrument to the Post with the provided #8 Button Head Screw for Recycled Posts or #10-24 Button Head Machine Screw for Steel Posts. Drivers are provided.



Step 1: Excavate one 10" diameter hole, 36" deep, at the installation location. Contractor can modify Post to desired height.

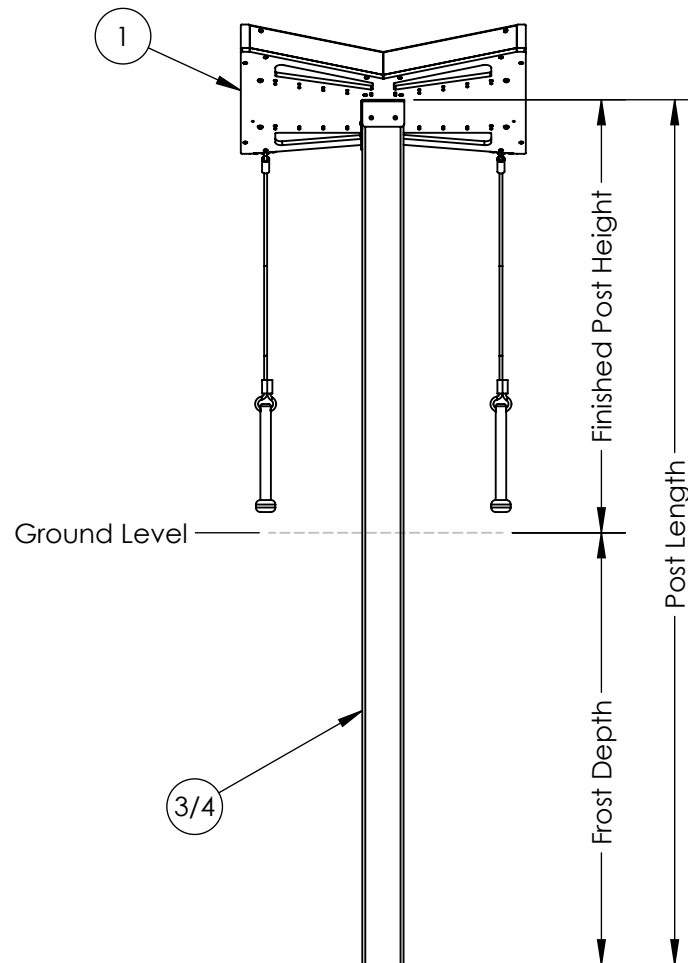
Post Length = Frost Depth (36" Recommended) + Finished Post Height

Finished Post Height Guideline: (Ages 3-5, 22") (Ages 5-7, 27") (Ages 7-11, 32") (Adult, 36")

Step 2: With two people, lower the Post with the Instrument attached into the excavated hole.

Step 3: Verify the correct placement, levelness, and finished height of the Instrument. Check for sufficient clearance around the Instrument, a 36" perimeter around the Instrument is recommended for wheelchair accessibility.

Step 4: Last pour concrete around the post. It is recommended to brace the Instrument to hold it rigid while the concrete cures. Leave to set according to the concrete manufacturers guidelines. Approximately (3) 80lb. bags will be needed.



TITLE:

In Ground Installation

DWG. NO. MELD-INSTALL

REVISION: B

SCALE: 1:16

DATE: 2/9/2018

SHEET 3 OF 4

Step 1: Standard height for Surface Mount Posts are 36". The Recycled Post may be modified in the field to the following heights:
 (Ages 3-5, 22") (Ages 5-7, 27") (Ages 7-11, 32") (Adult, 36")

The height of Surface Mount Steel Posts can not be adjusted.

Step 2: Determine installation location. Verify concrete footing is a minimum of 24" long x 24" wide x 6" thick. If the concrete pad is at an angle, steel washers are required to act as shims (Shims not provided). If there is not already an existing pad, approximately (4) 80lb. bags will be needed. Allow concrete to cure per concrete manufacturers guidelines.

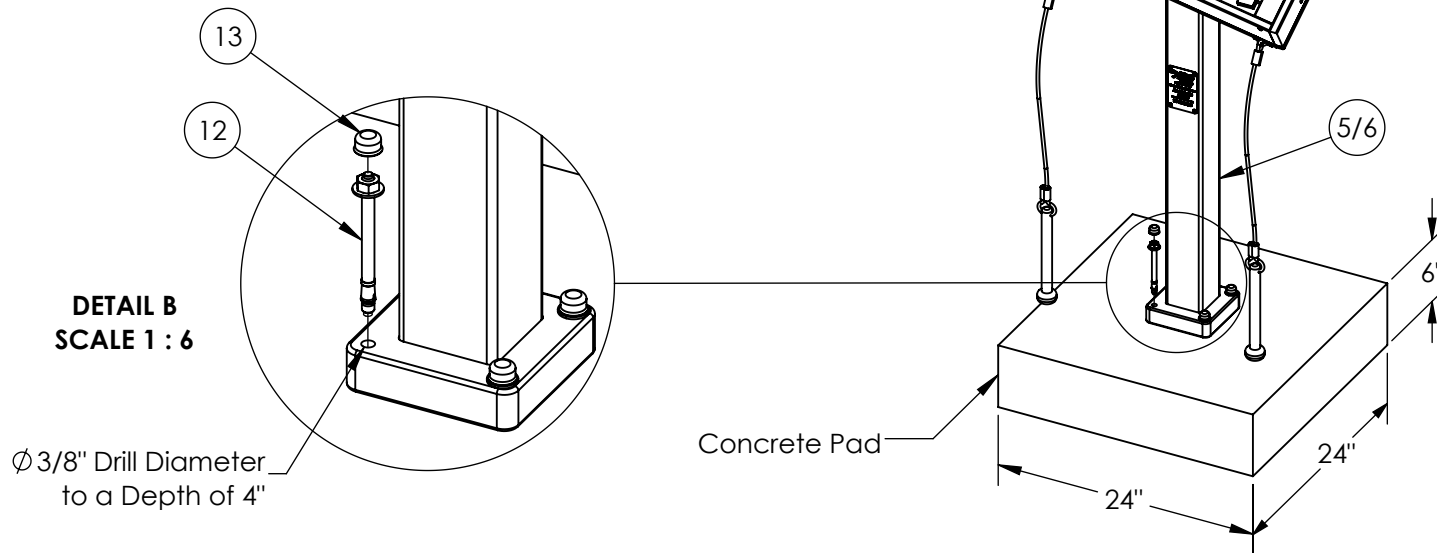
Step 3 (Recycled Post Only): Install the Surface Mount Base to the bottom of the Post. Align the holes on the Base with the holes on the Post. The Base should fit snugly around the Post. Fasten them together with the provided 5/16" Hex Head Lag Bolts.

Step 4: With two people place the Instrument Assembly with Post attached onto the concrete pad and mark the center of the holes on the surface mount base. After you have made your marks, set aside the Instrument in order to drill for anchor holes. With a hammer or rotary drill, drill through concrete at marked locations. Drill to a minimum depth of 4". A 3/8" masonry drill bit will be needed.

Step 5: Place the Instrument back over the drilled out holes. Insert provided anchor bolts into aligned holes. Position anchor nut so that it is flush with the top of the bolt. Pound anchor bolts into the hole until the anchor washer is flush with the surface mount base. Tighten anchor bolts until they are snug. Cover remaining bolt sections with provided nut caps.

Step 6: Verify the correct placement, levelness, and finished height of the Instrument. Check for sufficient clearance around the Instrument, a 36" perimeter around the Instrument is recommended for wheelchair accessibility.

Step 7: If installing onto wet concrete, us the wet set anchor manufacturers guidelines for installation procedures.



TITLE: Surface Mount Installation
 DWG. NO. MELD-INSTALL

REVISION: B
 SCALE: 1:16
 DATE: 2/9/2018
 SHEET 4 OF 4

Ten Spin



304
Ten Spin

Ten Spin

<u>MODEL</u>	<u>PRODUCT</u>	<u>GROUND SPACE</u>	<u>PROTECTIVE AREA</u>	<u>CONCRETE</u>
304	Ten Spin	7' DIA x 4'-11" H (from surfacing)	20' DIA	0.47 cu. yds.

DESCRIPTION

Ten Spin is an ADA merry-go-round type component that allows ten (10) children to play at one time.

MATERIALS

Body:

Ten Spin body shall be constructed of low density, 1/4" wall polyethylene. Body shall have an 86" diameter and measure 40" in height. Body shall have five (5) indentations to allow children with disabilities to sit/recline, and five (5) indentations for children to stand around outer edges. Rotomold shall have molded in footgrips to reduce slips. Body shall be pre-assembled with upper and lower ball bearings mounted into laminated sheet, HDPE 3/4" thick, with bottom cover constructed of 11 ga. sheet, A-60.

Post Assembly:

Post assembly shall comprise a top friction plate, half bottom friction plate, post weldment, spring, half bottom cover plate and connector stub. Top friction plate, half bottom friction plate and half bottom cover plate shall be constructed of laminated sheet, HDPE, 3/4" thick. Post weldment shall comprise a post bottom, post shaft, bottom post plate and post friction plate. Post bottom shall be constructed of 5" tube, 11 ga., post shaft will be constructed of round, 2-3/4" OD CRR 1018, and bottom post plate and post friction plate shall be constructed of 3/8" black sheet, ASTM A-36. Spring shall measure 3/4" OD x 2" long. Connector stub shall comprise a 1.31 5" OD, 14 ga. smooth tube, pipe plug and 3/8-16 aluminum insert. Entire post assembly shall measure 116-7/8" in height.

Tube-Wheel Weldment:

Tube shall be constructed of 5" tube, 11 ga. and 1/2" black sheet, ASTM A-36.

Wheel-Spin:

Wheel-Spin shall be constructed of low density, 1/4" wall polyethylene and shall measure 35-1/2" in diameter by 4" high.

Hand grips:

Hand grips shall be constructed of an 11 ga. sheet, A-60 plate with solid welded grips constructed of Gator Grip. Entire assembly shall measure 7" in height and 3-3/8" in width.

Fasteners:

All fastening hardware shall be Fastener Style A.

Finishes:

Ten Spin shall be finished in Rockite and Post in Mira-Cote.

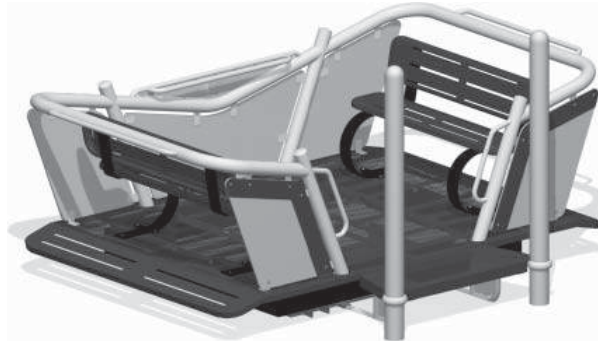
Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.

304

Alta-Glide Inclusive Glider - Freestanding

686

Alta Glide Inclusive Glider - Freestanding (1' high platform)



Alta-Glide - Freestanding

<u>MODEL</u>	<u>PRODUCT</u>	<u>GRND. SPACE</u>	<u>PROT. AREA</u>	<u>CONCRETE</u>
686	Alta-Glide Inclusive Glider - Freestanding	11'-8" x 7'-1"	21' x 25'	0.78 cu yds.

DESCRIPTION:

Alta Glide Inclusive Glider - Freestanding is a swaying, wheelchair-accessible glider.

MATERIALS:

Alta Glide Mechanism: Mechanism shall comprise a shaft weldment constructed of 18-8 stainless steel, rubber flex axles, bearings constructed of McMaster Carr part #5968K75 or equivalent, lock collars constructed of A283 steel grade C, guide blocks constructed of MDS filled nylon, wheels constructed of McMaster Carr part #9949T77 or equivalent.

Base: Base shall comprise gussets and base ground and vertical plates constructed of 3/8" plate, channels constructed of 6" x 13 # ASTM A-36, adaptor plate constructed of 7 ga. sheet, carriage containment brackets, guides and gusses constructed of 3/8" plate, base tubes constructed of SQTB HR 51 x 51 x 3, carriage tubes constructed of SQTB HR 51 x 51 x 3, mounting brackets constructed of SHST GAL 4.5 mm, flex axle holders and keepers constructed of 3/8" plate, gusset carriages and swing arms constructed of 1/2" HR ASTM A-36, arm stops constructed of 3/8" plates with an anchor head pin constructed of bar round .50" dia ASTM A-36.

Frame: Frame halves shall comprise tabs and half joiners constructed of SHST GAL 4.5 mm, rocker plates constructed of 3/8" plate, spacers constructed of 1.5" x 12 ga., spacer weldnuts, seat mount braces, end braces, skirt runners and main runners constructed of SQTB ILG 1.5" x 12 ga.

Tabs: Tabs shall be constructed of SHST GAL 4.6 mm.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.

686

Alta-Glide Inclusive Glider - Freestanding

MATERIALS cont.:

Decks:	Decks shall be constructed of SHST HR 2.3 mm.
Bench Seats:	Bench seats shall be constructed of SHST HR 2.3 mm.
"C" Spring:	"C" springs shall be constructed of 1/2" spring steel.
Bench Back Brace:	Back brace shall be constructed of plate HR 3/8".
Outer Frame:	Frame shall comprise aluminum 3.5" post caps, entry and rear handles constructed of RDTB ILG 33.4 mm x 3 mm, swage sleeves, rear posts, front posts and upper rails constructed of RDTB ILG 88.9 mm x 3 mm.
Outer Frame Middle:	Outer frame middle shall comprise tabs constructed of 4.5 mm ga. sheet, handhold fillers constructed of 2.3 mm ga. sheet, handholds and middle handle constructed of RDTB ILG 33.4 mm x 3 mm, and middle joiner constructed of RDTB ILG 88.9 mm x 3 mm.
Walls:	Walls shall be constructed of sheet HDPE 1/2".
Miracle Panel:	Panel shall be constructed of SHST GAL 3 mm.
Wall Trim:	Wall trim shall be constructed of SHST GAL 2.3 mm.
Skirts:	Skirts shall be constructed of sheet HDPE 1/2". Skirt corners shall be constructed of SHST GAL 4.5 mm.
Legs:	Legs shall be constructed of RDTB ILG 88.9 x 3 and a mounting plate constructed of 3/8" plate.
Deck Brace:	Deck braces shall comprise a brace plate constructed of 3 mm ga. sheet and deck braces constructed of RDTB ILG 42.2 mm x 3 mm.
Transfer Deck:	Transfer deck shall comprise tabs constructed of 7 ga. black sheet, deck corners constructed of 7 ga. sheet x 48 x 120 black HR CQ, and deck constructed of sheet HR3 mm.
Posts:	Posts shall be constructed of 3-1/2" tube with a 3-1/2" post cap pressed into the top end.
Finishes:	Decks, transfer Deck and bench seats shall be <u>Mira-Cote</u> . Wall trim and frames shall be <u>Mira-Therm</u> . Panels shall be gray <u>Mira-Lene</u> . C-Springs shall be black.

Consult Miracle's "Glossary of Technical Data for Materials, Processes and Finishes" for specifications of underlined items.



Poured In Place Rubber Playground Surfacing



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Fibar Poured in Place Standard Colors

Beige

Blue Rainbow / Dark

Eggshell

Green Rainbow

Red Terra Cotta

Teal

Grey-Light



FibarPIP Poured in Place Color Chart



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IPEMA Certification

**FibarPIP is tested and certified to ASTM -1292 for Impact Attenuation by an Independent Third Party Agency
(Sample Certificate Below)**

IPEMA Certificate of Compliance



To verify product certification, visit www.ipema.org

MANUFACTURER
Fibar Group, LLC
80 Business Park Drive
Suite 300
Armonk, NY 10504-1705

PRODUCT NBR	PRODUCT LINE	DESCRIPTION
F-PIP-3.75	FibarPIP Poured-in-Place Surfacing 3.75"8'	Poured in Place Rubber Playground Surfacing

ISSUE DATE: 7/21/16 -

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 F1292-13, Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment Standard.

The manufacturer listed below has received written validation from TÜV SÜD America that the products listed below conform with the requirements of ASTM F1292-13.

You may verify this certificate by visiting IPEMA's website at <http://ipema.org>



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Poured-In-Place Playground Surfacing Specifications

Part I: General

- 1.1 Description
Provide all materials, installation details, labor, and equipment required to properly install the **FibarPIP** poured-in-place system
- 1.2 **FibarPIP** Poured-in-Place is available from your local Representative
- Or directly from Fibar Group, LLC or TFG Installations, Inc.
80 Business Park Drive, Suite 300, Armonk, NY 10504-1705
Telephone: 800-342-2721 • Fax: 914-273-8659
E-mail: Info@Fibar.com
- 1.3 Quality Assurance
- A. Qualifications
1. **IPEMA** Certification- Products must be IPEMA certified to ASTM F1292-13 (go to www.ipema.org for certificate).
 2. The **FibarPIP** system shall be warranted by Fibar for any defects in materials and workmanship for two (2) years from the date of completion.
- B. Design and Detailing
1. The **FibarPIP** system is utilized when an impact-absorbing surface is required within the use zone of playground equipment. Each system is engineered to meet CPSC, ASTM F 1292 Impact Attenuation, ASTM F 1951 wheelchair mobility criteria, and complies with ASTM F 2223 *Standard Guide for ASTM Standards on Playground Surfacing*.
 2. Substrate over which **FibarPIP** may be installed includes concrete, asphalt, or compacted aggregate.
 3. All other substrates must be approved by Fibar prior to installation.
 4. The installer shall verify that all proposed substrates meet the requirements with regard to structural performance for the installations of the **FibarPIP** system.
- 1.4 Submittals
- Poured-in-Place System – Independently tested to pass:
1. ASTM F1292 standards for head injury criteria
 2. ASTM F1951 standards for ADA compliance
 3. ASTM D2859 standards for flammability
 4. CPSC-CH-E1002-08.3 2012 – CPSIA Total Lead in Accessible Substrate Material: Non-Metal Children’s Products
- Poured-in-Place System – Independently tested for:
5. ASTM D624-00e1 Tear Strength for durability
 6. ASTM D412-02 Tensile Strength for durability
 7. ASTM D2047 Coefficient of Friction for slip resistance
 8. ASTM E303 Surface Friction for slip resistance

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- 1.5 Delivery and Storage
 - A. Protect materials from weather.
 - B. Remove and discard empty containers in accordance with local ordinances.
- 1.6 Installation Limitations

Air temperature shall be greater than 50° F (10° C). Installation process should not begin when rain is forecast.
- 1.7 Alternates or equals shall be approved by the project architect prior to bid date.
- 1.8 Owner/Operator understands that if **FibarPIP** Poured-in-Place is placed near a sand play area that the impact attenuation of the **FibarPIP** Poured-in-Place may be adversely affected.
- 1.9 Supplier must provide \$10 million product liability insurance certificate with project owner named as certificate holder, prior to delivery.
- 1.10 In Canada, supplier must meet CSA guidelines.

Part II: Products

- 2.1 General: No substitution of other materials shall be permitted.
- 2.2 The depths of **FibarPIP** Poured-in-Place necessary to provide the critical fall height is as follows:

DEPTH	CRITICAL FALL HEIGHT
1.75"	3 feet
2.00"	4 feet
2.50"	5 feet
3.00"	6 feet
3.50"	7 feet
3.75"	8 feet
4.25"	9 feet
5.00"	10 feet

- 2.3 **Materials**
 - A. Primer: A single component, moisture-cured polyurethane
 - B. Binder: An MDI based, elastomeric, polyurethane pre-polymer with low odor and exceptional weathering and binding attributes
 - C. SBR Black base layer
 - 1. Recycled SBR rubber buffing
 - 2. 3/8" sieve with less than 4% dust (6-16 mesh)
 - 3. Containment Bags shall provide ample moisture protection

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- D. EPDM wear surface
 - 1. ½" EPDM cap thickness
 - 2. UV Stabilized virgin EPDM rubber
 - 3. EPDM shall be full color. No coated rubber is permitted.
 - 4. Sieve sizes of 1.0 mm – 3.5 mm

2.4 **Mixing and Preparation**

Binder/SBR and binder/EPDM mix ratios shall be determined by the specified system.

Part III: Execution

3.1 **Inspection**

Before applying **FibarPIP**, installer will evaluate the substrate and site conditions. No work will begin until the condition of the substrate is approved by the installer.

3.2 **Poured-in-Place System**

Primer: when required apply primer using a 3/8" nap roller at a rate 300 square feet per gallon. Do not apply over crushed stone base. Prime all vertical interfaces of curbs, etc.

A. SBR base layer

- a. Binder to rubber ratio shall be 15% by weight to achieve proper resiliency.
- b. Mix binder and SBR rubber in a paddle type mixer for 1 to 2 minutes or until rubber particles are encapsulated.
- c. Spread this mix to the desirable thickness using a screed bar.
- d. Using a steel trowel, uniformly compact the mix. Periodically lubricate the trowel with mineral spirits as work progresses. Do not saturate the rubber surface with cutting agents.
- e. Allow base layer to cure to point of supporting foot traffic without deforming the base layer and before proceeding with the EPDM wear surface.

B. EPDM Wear Surface

- a. Binder to rubber ratio shall be 20% by weight to achieve maximum durability.
- b. Mix EPDM and binder in paddle type mixer for 1 to 2 minutes or until materials are thoroughly encapsulated. Using a screed bar, level the mix over the base layer.
- c. Using a steel trowel uniformly compact the mix. Periodically lubricate the trowel with soapy water as work progresses. Do not saturate the rubber surface with cutting agents.

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- d. Allow wear surface to cure 24 to 72 hours before opening the area for play. The surface must be tack free before attempting to walk on the surface.

4. **Cleanup**

Clean all tools with mineral spirits.

5. **General Precautions**

Wear protective clothing and safety glasses when handling materials. Follow all safety precautions on packaging labels. Refer to Material Safety Data Sheets for safety information.

Visual Inspection

1. Sand, mud, pea gravel, etc. will need to be removed to prevent loss of impact attenuation. These particles will require the use of a vacuum with sufficient strength to penetrate the depth of the surface. At no time should the surface be pressure-washed.

Remove debris such as stones, broken glass, contaminants, or other foreign objects. In heavily-used parks, inspect daily.

2. The maintenance procedures and costs should be known and provided for prior to purchase to ensure the performance and longevity of the surface and playground.
3. Cleaning - Surface may be cleaned with a broom, blower, or street pressure hose.
4. Vandalism - Any acts of vandalism that alter the original surface must be repaired.

NOTICE: These specifications are merely guides for use by Landscape Architects, engineers, and contractors. These specifications will be of value to those who do not have detailed knowledge of synthetic safety flooring, and that they will aid in maintaining high construction standards. The Fibar Group, LLC, its agents and employees, do not warrant the specifications as appropriate for all conditions.

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Freenotes Harmony Park Warranty

Our Outdoor Musical Instruments are designed for durability and playability. We are confident that they will withstand all types of normal weather conditions and normal frequent play. They will never need re-tuning and can be enjoyed by all, any age or ability.

All Freenotes Harmony Park ("FHP") instruments will be built to our documented procedures and with the highest quality. Our warranty provides that our products will be free of defects in manufacturing and material.

Warranty begins on date of shipment. If any failures in manufacturing or materials occur within the applicable warranty period, FHP will provide replacement parts or products as determined by FHP within 30 days after written notification.

All FHP products carry a 5-year limited warranty on all standard/stock instruments and posts. All custom instruments and posts carry a 90 day warranty.

This warranty is valid for purchases on or after January 1, 2016.

This warranty is valid only if the mounting/assembly and ground/foundation works are carried out as described in the Installation Instructions of your FHP products and maintained according to the maintenance instructions provided by FHP. For all warranty issues it is the responsibility of the customer to cover all shipping costs, when necessary, for warranty items. FHP will not be responsible for providing labor or labor costs for the replacement of products or parts.

All replacement parts or products will be covered for the duration of the original warranty.

All products must be inspected immediately upon arrival. It is your responsibility to note any shipping damage on all copies of shipping paperwork. You must report any damage within 48 hours to Freenotes Harmony Park or to your FHP distributor. Damage not reported within this time frame cannot be covered under warranty.

FHP cannot warrant against:

Theft, vandalism, misuse, negligence or accident.
Scratches on paint, aluminum, or any finishes.
Cosmetic issues or wear and tear from normal use.

Quote Parts List

Drawing #: B502610r3

Date: 5/22/2019



Customer: Davis Athletics

Location: Romney, WV

<i>Qty</i>	<i>Component Number</i>	<i>Component Name</i>
<i>UNIT</i>		
1	B5-AP002-01	Alphabet Panel
1	B5-AP010-01	Mirror Panel
1	B5-AP027-01	Sign Language Panel
2	B5-AP033-02	Vertical Rail
1	B5-AP059-02	Musical Chime Panel
1	B5-AP123-03	Maze Wheel Mini Panel
1	B5-AP143-01	Honey Bee Panel
1	B5-AP150-00	Treasure Hunt
1	B5-AP157-01	Turn & Tumble Panel
1	B5-AP165-00	Finger Maze Panel
1	B5-AP179-00	Drum Sound Panel
1	B5-AP180-00	Farm Animal Sound Panel
1	B5-BA013-00	Stepping Stone 12"
3	B5-BC022-00	Wheelchair Ramp With Guardrails
1	B5-CB063-02	Handi-Hold Climber 3'
1	B5-CP093-18	3FT SENSORY CLIMBER
1	B5-DK003-02	Non-Skid Balcony Deck
5	B5-DK008-02	Square Deck
1	B5-DK011-01	Triangle Deck
6	B5-DK019-01	Half Hex Deck
2	B5-IN001-01	Infill Panel 6"
2	B5-IN002-01	Infill Panel 12"
1	B5-PM001-03	Safety Railings (set of 2)
2	B5-PM008-00	Wheelchair Barrier
2	B5-PM010-02	Threshold
4	B5-PM012-00	Grab Bar
6	B5-PP004-00	166 " - 5 Round Post - No Cap
12	B5-PP004-00	142 " - 5 Round Post - No Cap
2	B5-PP005-00	54 " - 5 Round Post - Flat Welded Cap
1	B5-PP005-00	66 " - 5 Round Post - Flat Welded Cap
3	B5-PP006-00	84 " - 5 Round Post - Aluminum Cap
1	B5-PP006-00	146 " - 5 Round Post - Aluminum Cap

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.

<i>Qty</i>	<i>Component Number</i>	<i>Component Name</i>
1	B5-PP006-00	150 " - 5 Round Post - Aluminum Cap
2	B5-PP006-00	135 " - 5 Round Post - Aluminum Cap
2	B5-PP006-00	128 " - 5 Round Post - Aluminum Cap
2	B5-PP006-00	126 " - 5 Round Post - Aluminum Cap
1	B5-PP006-00	110 " - 5 Round Post - Aluminum Cap
1	B5-PP006-00	107 " - 5 Round Post - Aluminum Cap
1	B5-PP006-00	90 " - 5 Round Post - Aluminum Cap
1	B5-PP006-00	118 " - 5 Round Post - Aluminum Cap
2	B5-PP006-00	153 " - 5 Round Post - Aluminum Cap
3	B5-RF018-01	B5 Hex Roof
2	B5-SC001-02	Playsteel TalkTube (1 only)
1	B5-SC005-02	PlayShip Steering Wheel on Post
1	B5-SH003-02	Single Slide Plastic Hood
2	B5-SH004-03	Double Slide Plastic Hood
1	B5-SL213-01	Double Tot Slide 3'
1	B5-SL215-01	Double Dare Slide 5'
1	B5-SL242-02	Single Slide 2'
1	B5-ST063-03	Accessible Step Deck 24"
2	B5-ST141-02	Accessible Step Up 12"
1	B5-TP019-19	INCLUSIVE WHEELCHAIR RAMP WITH GUAR

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.

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 for PlaySteel® Max are 5" (127mm) x 11 gauge (3mm), PlaySteel® Squared are 4" (102mm) square x 11 gauge (3mm), PlaySteel® Fit are 3.5" (89mm) x 13 gauge (2.3mm), PlayTots™ are 2.5" square x 11 gauge. Outer surfaces are zinc-plated and inner surfaces are treated to resist corrosion. All posts are powder-coat painted. All 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® decks are a welded assembly of 12 gauge perforated sheet steel. Entire assembly Polyethylenecoated to a depth of 0.040" (1mm). Decks are pre-punched to receive components.

Metal Preparation for Powder Coat Paint Finish

Metal preparation for powder coat paint finish consists of 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.

Polyethylene Coating

Polyethylene coating is Polyarmor® G17, a functionalized polyethylene copolymer-based thermoplastic powder coating designed for maximum mechanical performance, impact resistance and UV-stability. Polyarmor® G17 is a good general-purpose protective coating. On Polis Park Furniture PlaySteel decks will be coated in a fluidized bed to an overall thickness of 25 to 30 mil and cured in an oven at 425°F. Thickness shall average approximately 1/8" (3.2 mm) providing a safe, resilient surface.

Hardware and Fasteners

All hardware and fasteners are stainless steel or otherwise 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.

Hot Rolled Metal

Hot rolled metal is 13 gauge perforated steel used on Polis Street Furnishings and Park Amenities. Hot rolled perforated metal are totally encapsulated with either plastisol or polyethylene coatings. Hot rolled steel provides better adhesion characteristics for such coatings.

Engineering Properties

- Young's Modulus of Elasticity 200 x 106 MPa at 20°C
- Density 7.87 g/cm³ at 20°C
- Coefficient of Thermal Expansion Low-Carbon/HSLA:
- 12.4 µm/m/°C in 20°C to 100°C range I-F Steel: 12.9 µm/m/°C in 20°C to 100°C range
- Thermal Conductivity Low-Carbon/HSLA: 89 W/m°C at 20°C
- I-F Steel: 93 W/m°C at 20°C
- Specific Heat 481 J/kg/°C in 50°C to 100°C range
- Electrical Resistivity 0.142 µOm at 20°C

0.625" (16mm) Rope

0.625" (16mm) O.D. vandal-resistant, polypropylenecovered, galvanized steel strand fibre-core cable and 0.25" x 1.5" (6mm x 38mm) zinc.

Post Caps

Post caps are alloy 319 cast aluminum.

Marine Board (Anti-Skid Plastic)

Non Skid Plastic is 0.75" (19mm) anti-skid marine-grade polymer. Non Skid is specially formulated to withstand the rigors of harsh outdoor playground environments. It is UV-stabilized to resist damage and retain its beauty, even after years of direct sunlight. It does not splinter, crack, delaminate, rot, swell, or absorb water. Even under heavy foot traffic on playgrounds, it remains virtually maintenance-free. The color is integrated with the polymer and retains its vibrant appearance.

Materials comply with:

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

Orbis Arches

Orbis Arches are $\varnothing 2.375"$ (60.3mm) x 10 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Outer surfaces are zinc-plated and inner surfaces are treated to resist corrosion. Arches are screwed with $3/8"$ stainless steel self tapping screws in corresponding location for clamps. All arches are powder coated.

Orbis Clamps

Orbis clamps are cast with the highest grade 356.1 aluminum. The clamps are then drilled with a $\varnothing 1/2"$ hole to fit its $3/8"$ hardware and T-Nut. The Antigravity Clamp uses $3/8-16 \times 3.00"$ tamper resistant hardware with a T-Nut. The Aphelion and Bridge Clamp use $3/8-16 \times 3.50"$ tamper resistant hardware with a T-Nut. All clamps are powder coated.

Activity Panels

Alphabet Panel

Alphabet Panel is a mechanical assembly of panel brackets and panel. Panel brackets are a welded assembly of $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Panel brackets are powder-coat painted. Panel is $0.75"$ (19mm) bi-colour sheet polyethylene.

Maze Wheel Mini Panel

Maze Wheel Mini Panel is a mechanical assembly of mini barrier panel, steering wheel, and steering wheel bracket. Mini barrier panel is a welded assembly of $1.315" \times 33mm$ 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 $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Mini barrier panel is powder-coat painted. Steering wheel is $0.75"$ (19mm) high-density polyethylene. Steering wheel bracket is a welded assembly of $1.029"$ (26mm) O.D. x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, $1.315"$ (33mm) O.D. x 12 gauge (2mm) Allied Flo-Coat® galvanized steel tube and 10 gauge (3mm) satin-coated steel sheet. Steering wheel bracket is powder-coat painted. Steering wheel has a sheet of 0.25 (6mm) Lexan® on front.

Mirror Panel

Mirror Panel is a mechanical assembly of panel, panel insert, and panel brackets. Panel is $0.75"$ (19mm) bi-colour sheet polyethylene. Panel insert is a mechanical assembly of $0.75"$ (19mm) sheet polyethylene and 16 gauge (2mm) stainless steel mirror. Panel brackets are 10 gauge (3mm) satin-coated steel sheet. Panel brackets are powder-coat painted.

Musical Chime Panel

Musical Chime Panel is a mechanical assembly of panel brackets and panel. Panel brackets are

a welded assembly of $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Panel brackets are powder-coat painted. Panel is a mechanical assembly of $0.75"$ (19mm) bi-colour sheet polyethylene, $0.75"$ (19mm) O.D. x 16 gauge (2mm) stainless steel tube, and stainless steel braided wire.

Sign Language Panel

Sign Language Panel is a mechanical assembly of panel brackets and panel. Panel brackets are a welded assembly of $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Panel brackets are powder-coat painted. Panel is a mechanical assembly of $0.75"$ (19mm) bi-colour sheet polyethylene.

Treasure Hunt

Treasure Hunt is a mechanical assembly of panel brackets, treasure drums, fill, rod, cover plate, and panel. Panel brackets are a welded assembly of $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Panel brackets are powder-coat painted. Treasure drums are housed in $6"$ (152mm) O.D. Lexan tube. Fill is $0.1875"$ (5mm) O.D. plastic balls and plastic shapes. Rods are $0.375"$ (10mm) O.D. aluminum rod. Panel and cover plate are $0.75"$ (19mm) bi-colour sheet polyethylene.

Vertical Rail

Vertical Rail 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 $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Entire assembly is powder-coat painted.

Balancing Activities

Stepping Stone 12"

Stepping Stone 12" is a mechanical assembly of pods, and ground leg. Pods are rotationally-molded medium-density polyethylene with an average wall thickness of $0.25"$ (6mm). Pods have a non-skid surface. Ground leg is a welded assembly $2.375"$ (60mm) O.D. x 10 gauge (3mm) Allied Flo-Coat® galvanized steel tube and $0.25"$ (6mm) x $6"$ (152mm) zinc-plated hot-rolled mild flat steel. Ground legs are powder-coat painted.

Bridges & Connectors

Wheelchair Ramp With Guardrails

Plastisol Wheelchair ramp is a mechanical assembly of string guard, guardrail, decking, and support rib. String guard is $0.75"$ (19mm) anti-skid marine-grade polymer. Guardrail is a welded assembly of $1.315"$ (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, and $0.25" \times 4"$ (6mm x 102mm) zinc-plated hot-rolled mild flat steel. Decking is a formed assembly of 12 gauge top sheet steel. Support rib is a formed assembly of 12 gauge to sheet steel. Deck is coated with non-skid high-density polyethylene. Barriers are powder-coat painted.

Checker Board

Handi-Hold Climber 3'

Handi-Hold is a mechanical assembly of wall, ground legs, and safety railing. Wall is a mechanical assembly of steel coated high density polyethylene non-skid and frame. Frame is a welded assembly of $1.5" \times 1.5"$ (38mm x 38mm) rectangular x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, 10 gauge (3mm) satin-coated steel sheet and $0.25" \times 1.5"$ (6mm x 38mm) zinc-plated hot-rolled mild flat steel. Ground legs are $1.315"$ (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Safety rail 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 $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Frame, ground legs, and safety rail are powder-coat painted.

Climbing Activities

Handi-Hold Climber 3'

Handi-Hold is a mechanical assembly of wall, ground legs, and safety railing. Wall is a mechanical assembly of steel coated high density polyethylene non-skid and frame. Frame is a welded assembly of $1.5" \times 1.5"$ (38mm x 38mm) rectangular x 14 gauge (2mm) Allied Flo-Coat® galvanized steel tube, 10 gauge (3mm) satin-coated steel sheet and $0.25" \times 1.5"$ (6mm x 38mm) zinc-plated hot-rolled mild flat steel. Ground legs are $1.315"$ (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Safety rail 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 $0.1875" \times 1.75"$ (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Frame, ground legs, and safety rail are powder-coat painted.

Decks

Half Hex Deck

Half Hex Deck is a formed welded assembly of deck and support rib. Deck is a formed assembly of 12 gauge top sheet steel. Support ribs are a formed assembly of 12 gauge to sheet steel. Deck is coated with non-skid high-density polyethylene. Surface area is 3316 in² (2.14m²).

Non-Skid Balcony Deck

Balcony Deck - Punched is a mechanical assembly of balcony railing, balcony deck and support rib. Balcony 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 hot-rolled mild flat steel. Balcony deck is a formed assembly of 12 gauge top sheet steel. Support rib is a formed assembly of 12 gauge to sheet steel. Deck is coated with non-skid high-density polyethylene. Mounting panel is powder-coat painted. Surface area is 448 in² (0.29m²).

Square Deck

Square Deck is a welded assembly of deck, support rib, and bracket. Deck is a formed assembly of 12 gauge top sheet steel. Support ribs are a formed assembly of 12 gauge to sheet steel. Bracket is a welded assembly of 0.1875" x 1.75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel and 0.1875" x 3.5" (5mm x 89mm) zinc-plated hot-rolled mild flat steel. Deck is coated with non-skid high-density polyethylene. Surface area is 2143 in² (1.38m²).

Triangle Deck

Triangle Deck is a formed welded assembly of deck and support rib. Deck is a formed assembly of 12 gauge top sheet steel. Support ribs are a formed assembly of 12 gauge to sheet steel. Deck is coated with non-skid high-density polyethylene. Surface area is 1222 in² (0.79m²).

Infill Panels

Infill Panel 12"

Infill Panel is 10 gauge satin-coat steel. Panel is powder-coat painted.

Infill Panel 6"

Infill Panel is 10 gauge satin-coat steel. Panel is powder-coat painted.

PlaySteel Misc Parts

Grab Bar

Grab Bars are 1.315" (33mm) O.D. x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Entire assembly is powder-coat painted.

Safety Railings (set of 2)

Safety Railing (set of 2) 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. Entire assembly is powder-coat painted.

Threshold

Threshold is a welded assembly of 10 gauge (3mm) satin-coated steel sheet. Entire assembly is powder-coat painted.

Playsteel Posts

5 Round Post - Aluminum Cap

P4 Post - Aluminum Cap is a welded assembly of post, cap and bracket. Post is 4" (102mm) square x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Cap is aluminum. Bracket is 10 gauge (3mm) hot rolled steel bar. Entire assembly is powder-coat painted.

5 Round Post - Flat Welded Cap

1.5 Post - Flat Cap is a welded assembly of 1.5" (38mm) square x 14 gauge (3mm) Allied Flo-Coat® galvanized steel tube, and 10 gauge (3mm) satin-coated steel sheet. Entire assembly is powder-coat painted.

5 Round Post - Flat Welded Cap

2x4 Post - Flat Welded Cap is a welded assembly of 4" (102mm) square x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube, and 10 gauge (3mm) satin-coated steel sheet. Entire assembly is powder-coat painted.

5 Round Post - No Cap

2x4 Post - No Cap is 4" (102mm) square x 11 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Post is powder-coat painted.

Roofs

B5 Hex Roof

Hex Roof is a mechanical assembly of mounts, mount adaptors, cap brackets, cap, roof panels, and rafters. Mounts are a welded assembly of 10 gauge (3mm) satin-coated steel sheet, and 0.25" x 2" (6mm x 51mm) hot-rolled mild flat steel. Mount adaptors are a welded assembly of 0.25" x 2" (6mm x 51mm) hot-rolled mild flat steel and 0.1875" x 1.75" (5mm x 44mm) zinc-plated hot-rolled mild flat steel. Cap brackets are 10 gauge (3mm) satin-coated steel sheet. Cap is a welded assembly of 11 gauge (3mm) aluminum sheet. Roof panels are a welded assembly of 0.75" x 1.5" x 0.125" (19mm x 38mm x 3mm) rectangular aluminum tube and 8 gauge (3mm) 3003-H14 perforated aluminum. Rafters are a welded assembly of 2.5" (64mm) square x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 10 gauge (3mm) satin-coated steel sheet, and 14 gauge (2mm) satin-coated steel sheet. Entire assembly is powder-coat painted.

Slide Hoods

Double Slide Plastic Hood

Double Poly Slide Plastic Hood is a mechanical assembly of plastic hood and string guard. Plastic hood is rotationally-molded medium-density polyethylene with an average wall thickness of 0.25" (6mm). String guard is a welded assembly of 0.375" (10mm) O.D. hot rolled steel round bar and 2.75" x 4" (70mm x 102mm) 10 gauge (3mm) satin-coated steel sheet. String guard is powder-coat painted.

Single Slide Plastic Hood

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

Slides

Double Dare Slide 5'

Double Dare Slide is a mechanical assembly of slide, slide angle, ground legs, and mid support leg. Slide is one-piece, double-wall, rotationally-molded 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 angle 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. Mid support leg is a mechanical assembly of leg and mount. Leg is 1.66" (42mm) x 10 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Mount is a welded assembly of 0.25" x 2" (5mm x 51mm) zinc-plated hot-rolled mild flat steel. Slide angle and ground legs are powder-coat painted.

Double Tot Slide 3'

Double Dare Slide is a mechanical assembly of slide, slide angle, ground legs, and mid support leg. Slide is one-piece, double-wall, rotationally-molded 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 angle 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. Mid support leg is a mechanical assembly of leg and mount. Leg is 1.66" (42mm) x 10 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Mount is a welded assembly of 0.25" x 2" (5mm x 51mm) zinc-plated hot-rolled mild flat steel. Slide angle and ground legs are powder-coat painted.

Single Slide 2'

Single Poly Slide is a mechanical assembly of slide, slide angle, and ground legs. Slide is one-piece, double-wall, rotationally-molded 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 leg and mount. Leg is 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 powder-coat painted.

Social Play Activities

PlayShip Steering Wheel on Post

PlayShip Steering Wheel is a mechanical assembly of ship steering wheel, puck and steering wheel bracket. Ship steering wheel and puck are 0.75" (19mm) bi-colour sheet polyethylene. Steering wheel bracket 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 10 gauge (3mm) satin-coated steel sheet. Steering wheel bracket is powder-coat painted.

Playsteel TalkTube (1 only)

TalkTubes is a mechanical assembly of tube and speaking cone. Tube 2.375" (60mm) O.D. x 10 gauge (3mm) Allied Flo-Coat® galvanized steel tube. Speaking cone is a welded assembly of 2.375" (60mm) O.D. x 14 gauge (3mm) Allied Flo-Coat® galvanized steel tube, 14 gauge (3mm) satin-coated steel sheet and 11 gauge (3mm) cold-rolled perforated steel sheet. Entire assembly is powder-coat painted.

Stairs & Access Points

Accessible Step Deck 24"

Accessible Step Deck is a mechanical assembly of stairs, handrails, and upper barrier rail. Stairs are a formed assembly of 12 gauge top sheet steel. Stairs are coated with non-skid high-density polyethylene. Handrails are a welded assembly of 1.315" O.D. (33mm) 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. Upper barrier rail is a welded assembly of 1.315" O.D. (33mm) x 12 gauge (3mm) Allied Flo-Coat® galvanized steel tube and 0.1875" x 1.75" (5mm x 44mm) hot-rolled mild flat steel. Handrails and lower barrier rail are powder-coat painted.

Accessible Step Up 12"

Accessible Step Deck is a mechanical assembly of deck step, and handrails. Deck step is a formed assembly of 12 gauge top sheet steel. Step is coated with non-skid high-density polyethylene. Handrails are a welded assembly of 1.315" O.D. (33mm) 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.

Accessible Step Up 12"

Step Up is a mechanical assembly of step deck, and handrails. 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. Handrails are powder-coat painted.

Superior Bench - Horizontal Slat

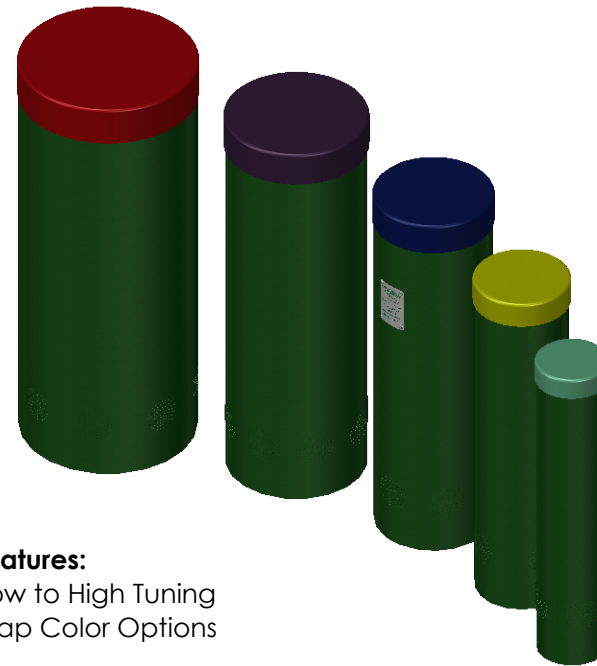
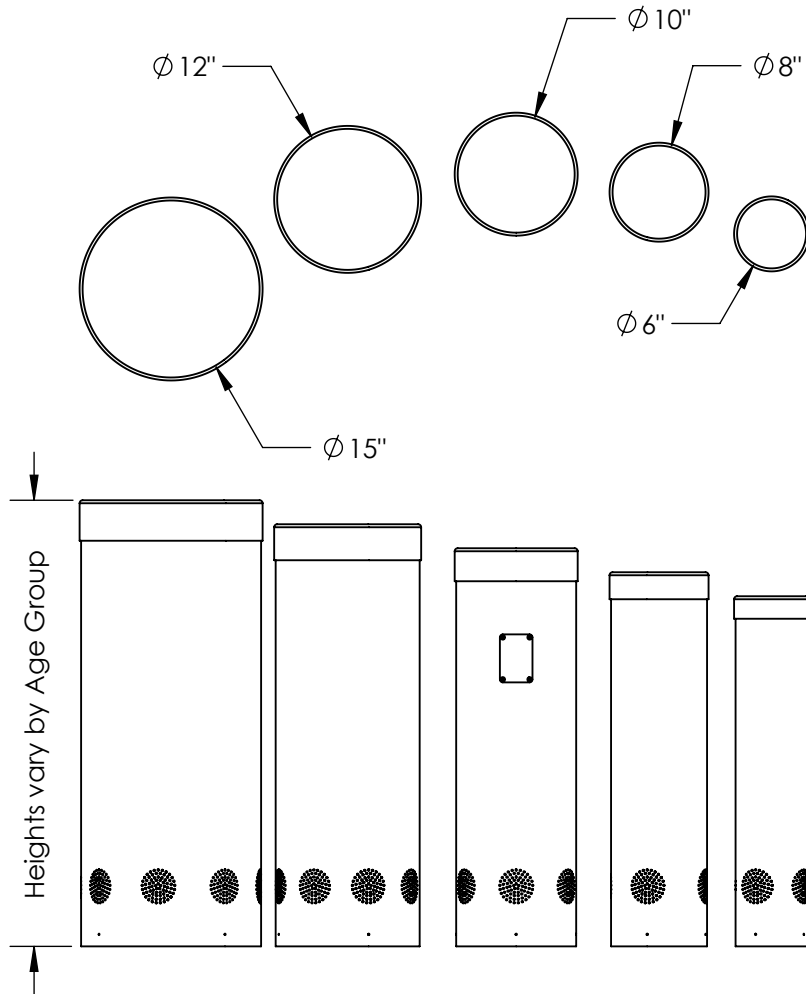
Double Slide Plastic Hood

Double Poly Slide Plastic Hood is a mechanical assembly of plastic hood and string guard. Plastic hood is rotationally-molded medium-density polyethylene with an average wall thickness of 0.25" (6mm). String guard is a welded assembly of 0.375" (10mm) O.D. hot rolled steel round bar and 2.75" x 4" (70mm x 102mm) 10 gauge (3mm) satin-coated steel sheet. String guard is powder-coat painted.

Single Slide Plastic Hood

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

TUNED DRUMS INSTALLATION GUIDE



Main Features:

- Low to High Tuning
- Cap Color Options

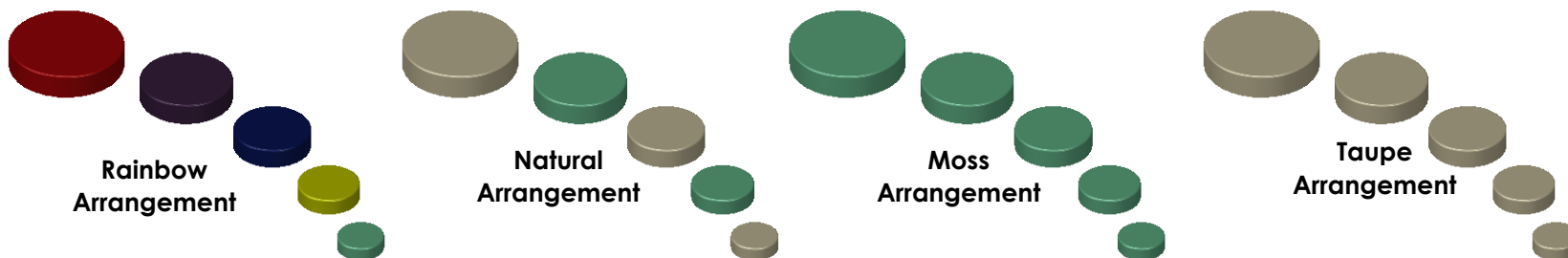
Contents:

- SHEET 2 - In Ground Installation w/ Parts List
- SHEET 3 - Surface Mount Installation w/ Parts List

Weights:

- Instrument Total Weight, 60-84lbs.
- Boxed Instrument Total Weight, 90-110lbs.
- Individual Drum Weights vary per style and finished height selection

Cap Color Options:



TITLE:

Tuned Drums - Installation Guide

DWG. NO. TD-INSTALL

REVISION: NA

SCALE: 1:16

DATE: 2/9/2018

SHEET 1 OF 3

Parts List:

ITEM NO.	DESCRIPTION	QTY.	NORMAL FINISHED HEIGHT	TODDLER FINISHED HEIGHT
1	Ø 15" In Ground Tuned Drum	1	37"	29"
2	Ø 12" In Ground Tuned Drum	1	35"	27.5"
3	Ø 10" In Ground Tuned Drum	1	33"	26"
4	Ø 8" In Ground Tuned Drum	1	31"	24.5"
5	Ø 6" In Ground Tuned Drum	1	29"	23"

Step 1: Arrange Drums in desired location and pattern. Drums can be laid out in any configuration desirable, but must be installed less than 3" or greater than 9" apart. **WARNING: Between 3" and 9" there lies a chance for a child's head to get stuck.** (Reference: US Consumer Product Safety Commission, Public Playground Safety Handbook)

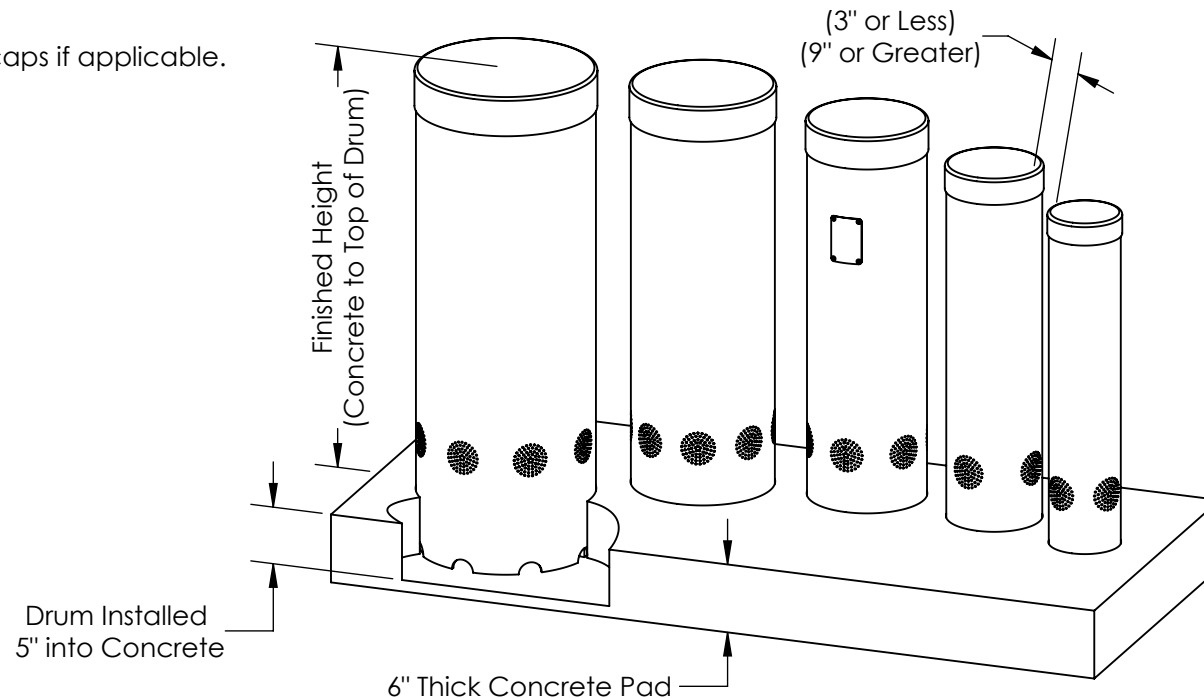
Step 2: Determine border of trench for concrete pad. Trench should be a minimum of 6" deep. Concrete pad should perform under local soil and weather conditions.

Step 3: Excavate trench to required depth. Check levelness of trench then pour concrete and fill trench completely per code requirements. Immediately after the concrete has been poured, drive the Tuned Drums into the wet concrete per your chosen layout.

Step 4: The bottom edge of the Drum Bases are scalloped to assist in their installation into the concrete. Twist Drums into concrete to a depth of 5". Check for plumbness, if needed brace the Drums to keep them rigid and in place during the curing process. Leave to set according to the concretemanufacturer's guidelines.

Step 5: Check for sufficient clearance around instruments. A 36" clearance is recommended around the the entire Drum arrangement for wheelchair accessibility, however this is not required for proper function. Drums may also be installed next to a wall or in a variety of different configurations.

Step 6: Remove plastic film from drum caps if applicable.



Parts List:				
ITEM NO.	DESCRIPTION	QTY.	NORMAL FINISHED HEIGHT	TODDLER FINISHED HEIGHT
1	Ø 15" Surface Mount Tuned Drum	1	37"	29"
2	Ø 12" Surface Mount Tuned Drum	1	35"	27.5"
3	Ø 10" Surface Mount Tuned Drum	1	33"	26"
4	Ø 8" Surface Mount Tuned Drum	1	31"	24.5"
5	Ø 6" Surface Mount Tuned Drum	1	29"	23"
6	Surface Mount Anchor Disc	5	-	-
7	Ø 1/4 x 3.25" Anchor Bolt, SS	15	-	-
8	#10 Button Head Screw, 2"lg. SS, T25 tamp	20	-	-
9	Security Driver	1	-	-

Step 1: Arrange Drums in desired location and pattern. Drums can be laid out in any configuration desirable, but must be installed less than 3" or greater than 9" apart.

WARNING: Between 3" and 9" there lies a chance for a child's head to get stuck.

(Reference: US Consumer Product Safety Commission, Public Playground Safety Handbook)

Step 2: Once you have decided your layout, replace drums with the provided Anchor Discs. Mark holes on the concrete through the (3) holes on all of the Anchor Discs. Set aside Discs, drill 1/4" holes 2" into concrete at marked locations. A Ø 1/4" masonry drill bit will be needed. Contractor to provide a concrete slab that will perform under local soil and weather conditions. (If anchoring to a material other than concrete, fasteners to be provided by the customer)

Step 3: Place the Anchor Discs back over the drilled out holes. Insert provided anchor bolts into aligned holes. Position anchor nut so that it is flush with the top of the bolt. Pound anchor bolts into the hole until the anchor washer is flush with the post base. Tighten anchor bolts until they are snug.

Step 4: Install the Drums over the Anchor Discs. Predrill (4) 1/8" holes in a 90° cross pattern, 1" up from the bottom of the drum. Drill through both Drum and Anchor Disc. When predrilling holes, make sure they clear the previously installed anchor bolts, and that there is clearance for the 2" screws to be installed without interfering with the other drums. Secure Drums to Discs with the provided #10 Button Head Screws and Driver.

Step 5: Check for sufficient clearance around instruments. A 36" clearance is recommended around the the entire Drum arrangement for wheelchair accessibility, however this is not required for proper function. Drums may also be installed next to a wall or in a variety of different configurations.

Step 6: Remove plastic film from drum caps if applicable.

