

ADDENDUM NO. 1

Dated: December 7, 2018

TO THE CONTRACT DOCUMENTS FOR THE

NW NEIGHBORHOOD PARK PROJECT NO. 2015-11

NOTICE TO ALL PLANHOLDERS:

You are hereby notified of the following clarifications, additions, and/or revisions to the contract documents for the above referenced project:

BIDDING REQUIREMENTS

- 1. <u>Pre-Bid Meeting Question / Comment Responses:</u>
 - a. **Q/C:** Just the provider for the Forever Lawn is listed in the specifications. No installer is listed?
 - **R:** Correct. See Synthetic Grass Playground Surfacing Section 321814-2; 1.4 Quality Assurance for Installer Qualifications.
 - b. **Q/C:** There are no details for playground installation.
 - R: Manufacturer installation cut sheets have been included as part of this Addendum.
 - c. **Q/C:** Schedule Discussion
 - **R:** The City has received a two-year extension for the funding deadlines. The preference is to have the construction completed by November 30, 2019. However, the City is willing to negotiate an alternative construction timeline in order to better accommodate the contractor and more favorable bids.
 - d. Q/C: Are there liquidated damages included in the contract?
 R: Yes, the City contract includes liquidated damages. The construction timeline will be determined during the contract negotiation process.

e. **Q/C:** Will survey be required?

R: The contractor will be responsible for providing construction survey work to complete the project. There is a bid item in the bid tab for Construction Survey Work. Barker Surveying provided the topographic survey from which the construction drawings were developed. Their contact information is included on the covers sheet of the Bid Set if you choose to use them.

f. **Q/C:** What is a 2-3 man boulder?

R: These are approximate 2'-3' diameter boulders that will be used in key locations to deter vehicular access into the park. WSDOT uses the following to describe them:

Rock Size	Rock Weight	Avg. Dimensions
Two Man	200 - 700lbs	18" - 28"
Three Man	700 - 2,000lbs	28" - 36"

g. **Q/C:** Who obtains the permits and pays for them?

R: Contractor is responsible for obtaining and paying for Trade Permits. Owner will pay for other permits unless otherwise noted in the specifications or bid documents.

h. **Q/C:** Playground Installer Qualifications

R: See Site Furnishings Section 02870-1; 1.2 Quality Assurance:

D. Installer Qualifications: An experienced installer who has specialized in installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer of playground equipment as indicated on the Drawings.

and

E. Playground equipment is to be installed by an experience playground installer with at least 5 years experience with similar applications. Contractor to submit certification and proof of installation experience to Owner's Representative for approval prior to installation. 'Landscape Structures' contact is Ross Recreation.: 707-538-3800.

i. **Q/C:** Does the landscape installer need to be certified?

R: See Lawns and Grasses Section 02920-2; 1.4 Quality Assurance and Exterior Plants Section 02930-1; 1.3 Quality Assurance for installer qualifications. See Irrigation Systems Section 02810-2; 1.5 Quality Assurance for irrigation installer qualifications.

j. Q/C: There was a comment that the slab for the Portland Loo is typically 18" thick.
 R: We contacted the manufacturer for clarification and were told that the 18" thick slab is designed to address all soil types. Based on the conversation with the manufacturer, the City would like to proceed with the slab as currently designed at an 8" thickness.

k. **Q/C:** There was a question as to whether or not the strip and haul of organics and topsoil could be replaced with farming the soil.

R: Based on discussion with the client following the Pre-bid meeting it was decided for bidding purposes to keep the stripping and hauling requirements as currently shown in the Bid documents.

REVISIONS AND ADDITIONS TO THE SPECIFICATIONS AND CONSTRUCTION DRAWINGS

- 1. Site Furnishings Section 02870:
 - a. See attached "Exhibit A" manufacturer's product installation data for playground equipment.

2. <u>Mandatory Pre-Bid Sign-in Sheet</u>

a. See attached "Exhibit B" sign-in sheet identifying the attendees of the mandatory prebid meeting.

The Contractor shall prepare the Proposal in full consideration of the information contained in this Addendum No. 1 as well as the original contract documents.

All bidders shall acknowledge receipt and acceptance of Addendum No.1 in the space provided in the contract proposal. Proposals submitted without the Addendum No. 1 acknowledgement shall be considered informal.

City of McMinnville

Rich Spofford Engineering Services Manager

Exhibit A: Manufacturer's product installation data for playground equipment.

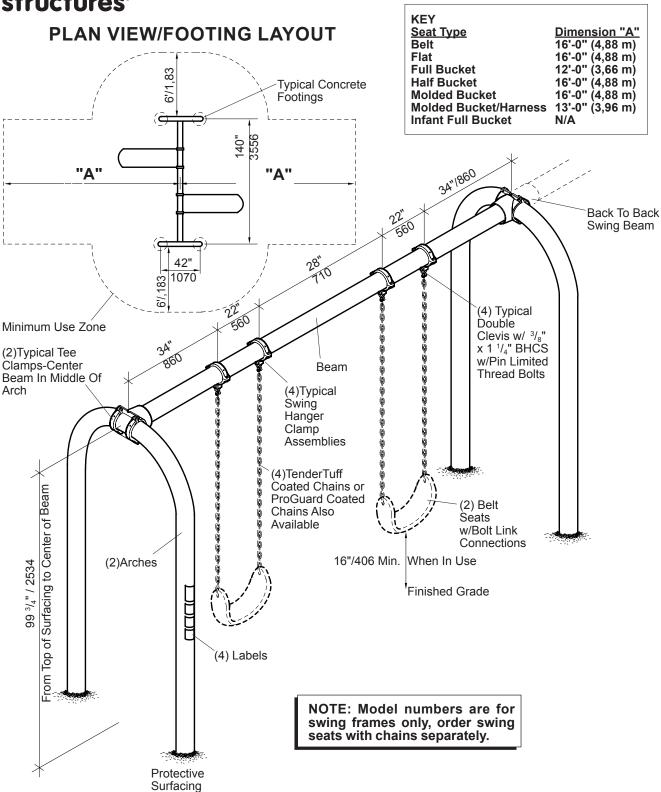






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

18448000



Model #221293 Additional Bay

Swings

221292/221293 Arch Swing Frame

Swings 221292/221293 Arch Swing Frame

Parts List

Part#	Description	Q	ty.
		2 PI	Add. Bay
126749	Swing Arch, Specify Color	2	1
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	8	6
105327	5" Half Clamp, Specify Color		
216492	140" Swing Beam, Specify Color		
121291	Swing Hanger Clamp Assy. Specify Color	4	4
121289	Swing Hanger Clamp, Specify Color		
127068	⁷ / ₁₆ " x 2 ⁷ / ₁₆ " BHCS w/Pin Ltd. Thread, SST	4	4
138917	Swing Hanger Double Clevis		
100667	Oilite Bushing	4	4
243802	Hdw Pkg 5iOD Swing Beam.	1	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	8	8
234397	BHCS 6LP LTHD 7/16 x 1 11/16i, SST	8	8
100292	³ / ₈ " x 1 ¹ / ₄ "BHCS w/Pin Ltd. Thread, SST		
100351	³ / ₈ " Tee Nut, SST	8	8
156846	Play Safe Label, 2-12 Yrs		
234937	⁷ / ₁₆ " D Cut Washer, SST	16	16
182213	Hot Surface Warning Label	1	1
182212	Entanglement Warning Label	1	1
115176	Hard Surface Warning Label		
100330	⁷ / ₁₆ " Nylok Hex Nut		8
	E ANY ELOAD NY LED NY L		

Specifications

Arch Posts: See PlayBooster® (PB) General Specifications.

Weldment comprised of tee clamps and 5" O.D. **Swing Beam:**

extruded 6005-T5 aluminum alloy tube with a .125"

wall. Finish: ProShield®, color specified.

Clamp: Cast aluminum. Finish: ProShield, color specified.

Primary fasteners shall be socketed and pinned tam-**Fasteners:** perproof in design, stainless steel (SST) per ASTM F

879 unless otherwise indicated (see specific product

installation/specifications).

Installation Time: Approx. 8 man hours

Additional Bay 4 man hours

Concrete Req.: Approx. 7.5 cu. ft.

Additional Bay 3.75 cu. ft. 24'-2 ³/₄" x 32' (7,39 m x 9,75 m) Area Req.: Additional Bay 11'-8" x 32' (3,55 m x 9,75 m)

Weight: 204 lbs.

Additional Bay 124 lbs.

Fall Height: 96" (2,43 m)

Installation Instructions

- Dig footings, spaced as shown. Refer to the Concrete Footing Detail.
- Set arches in footing holes and attach swing beam to center of arches using 5" half clamps with 7/16" BHCS w/Pin, 7/16" D-Cut Washers, and ⁷/₁₆" Nylok nuts. Refer to the Tee Clamp Position Detail. Center of beam should be 99 3/4" above finished grade. When installing back to back swing beams refer to the Back To Back Tee Clamps Detail.
- Level beam and plumb arches and temporarily prop in position. Pour concrete footings and let cure for 72 hours before proceeding.
- Locate, mark and attach swing hanger clamps to beam in locations shown. Refer to the Typical Swing Hanger Clamp Spec Sheet.
- **NOTE:** Refer to specific swing seat installation document for attaching chains and seats.
- Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet. Refer to the Back To Back Tee Clamps Detail.
- Apply Play Safe and Warning Labels, as shown.
- Install protective surfacing before users are allowed to play on the

^{* = 5&}quot; Half Clamps From 2 PL. End Of Beam Need To Be Used.







Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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DETAIL BACK TO BACK TEE CLAMPS (4) 7/16" Nylok Nut with D-Washer (4) BHCS LTHD 7/16 x 1 11/16 SST w/ Washer Flush -**O** D-Cut 7/16" NOTE: Drill $^{1}I_{4}$ " hole through tee and arch for $^{1}I_{4}$ " x $^{5}I_{8}$ " drive rivet when installing back to back tee clamps. (2) Tee Clamps Part Number Label Example 1/4" x 5/8" Drive Rivet **DETAIL CONCRETE FOOTING** 107700-Finish Grade NICAP 124I AL Sticker **DETAIL TEE CLAMP POSITION** Number Indicates Post Length (2)Tee Clamps/Beam Performance Based on Fall Height (4) 5" Half $(4)^{1}/_{4}$ " x $^{5}/_{8}$ " Loose Fill Depth/ Clamps Drive Rivets Protective Surfacing Subgrade Bury Concrete Footing (2)Arches 20"/510 Min. 34" CONCRETE 1.87 Cubic Feet per Footing.

Swings

221292/221293 Arch Swing Frame

2000 PSI (Min.)

Conditions Exist.

3000 PSI (Min.) If Freezing

3/4" Minus

Crushed Rock

NOTE: Use inside

Nut w/D-Washer

holes for (4) 1/16 BHCS

w/Pin limited thread w/D-Washer 1/16 Nylok 4 6

14" Min.

360



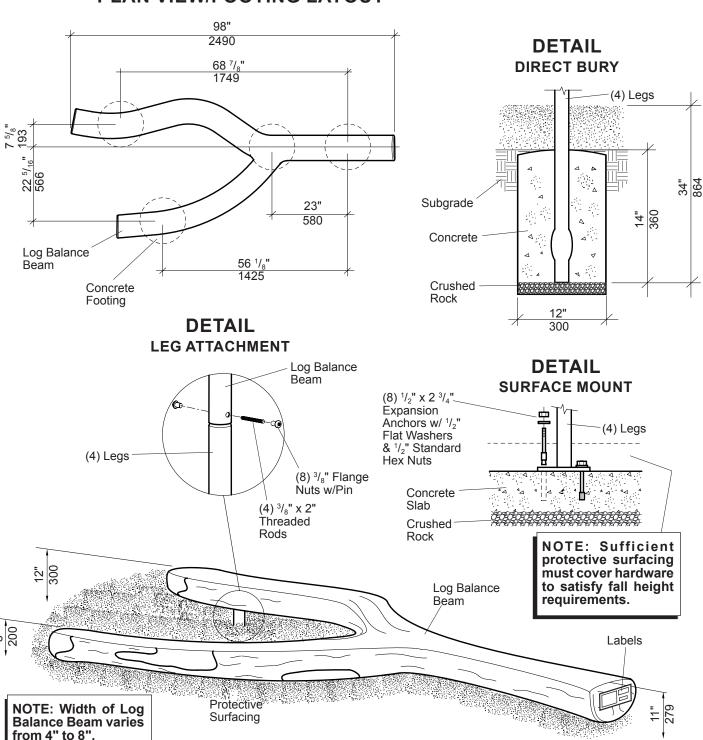




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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PLAN VIEW/FOOTING LAYOUT



Play Naturally™

Sports & Fitness 173596 Log Balance Beam

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Sports & Fitness 173596 Log Balance Beam

Parts List

Part#	Description	Qty
175712	Log Balance Beam	1
175706	Leg, SM, Brown	
175707	Leg, DB, Brown	
175717	Log Balance Beam Hardware Package	1
100353	³ / ₈ " Flange Nut w/Pin, SST	8
116942	³ / ₈ " x 2" Threaded Rod, SST	4
111392	2-Hole (SM) Hardware Package	4
100266	¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	8
100322	1/2" Standard Hex Nut, SST	8
100363	¹ / ₂ " Flat Washer, SST	
224345	Warning Label Package 2-12	1
183064	Label Warning	
200331	Label 2-5 Yrs	
200332	Label 2-12 Yrs	
200333	Label 5-12 Yrs	

DB = Direct Bury SM = Surface Mount

Specifications

Log Balance Beam

Assembly:

Weldment comprised of 1.900" O.D. RS20 (.090"-.100" wall) galvanized steel tubing and 2.375" O.D. RS20 (.095"-.105" wall) galvanized steel tubing. Finish: ProShield, brown in color. (Log-fully assembled) Glass reinforced wet cast solid pour concrete product. Finish: Latex paint made for concrete, natural colors.

concrete, natural colors.

Leg: Fabricated from 2.375" O.D. RS20 (.095"-.105"

wall) galvanized steel tubing. Finish: ProShield,

brown in color.

Fasteners: Primary fasteners shall be socketed and pinned

tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see

specific product installation/specifications).

Installation Time: Approx. 2 man hours **Concrete:** Approx. 3.66 cu. ft.

Concrete: Approx. 3.66 cu. ft.

Weight: 430 lbs. (DB) 410 lbs. (SM)

Min. Use Zone: 6' (1830 mm)

Actual Size: Log measures 98" long x 42" wide

(2490 m x 1070 mm wide)

Fall Height: 12" (200 mm)

Installation Instructions

(Direct Bury) - Dig footing holes, spaced as shown. Attach legs to log balance beam, using ³/₈" x 2" threaded rods and ³/₈" flange nuts with pin. Place log balance beam in footing holes and temporarily brace in plumb and level position. Pour concrete footings and let cure for a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) - Attach legs to log balance beam, using $^{3}/_{8}$ " x 2" threaded rods and $^{3}/_{8}$ " flange nuts with pin. Set log balance beam in proper position and mark anchor bolt locations on concrete slab through holes in anchor plates. Move log balance beam aside and drill $^{1}/_{2}$ " x 3" deep holes in marked locations on concrete slab using $^{1}/_{2}$ " masonry bit and hammer drill. Reposition log balance beam over drilled holes and tap expansion anchors into holes. Fasten using and $^{1}/_{2}$ " standard hex nuts with $^{1}/_{2}$ " flat washers.

- Apply the warning label and age label for the intended age range.
- Install protective surfacing before users are allowed to play on the structure.
- 4) NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.



DETAIL LOG STEPPER SPACING

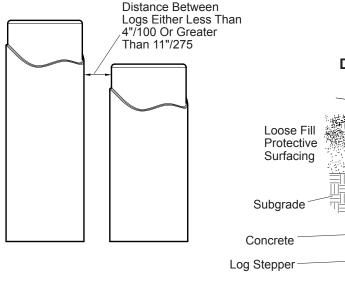




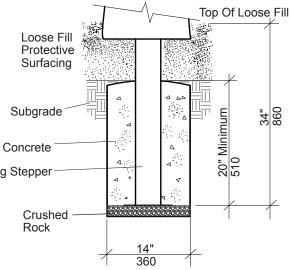
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref.

ASTM F1487.)

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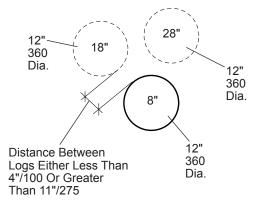


DETAILDIRECT BURY



173907 Protective Surfacing

PLAN VIEW/FOOTING LAYOUT (LAYOUT VARIES - SEE YOUR PLAN)



Play Naturally™

173907 8" Height (Shown) 173908 18" Height 173909 28" Height

Climbers

Log Steppers





Parts List

Part#	Description	Qty.
200691	8" Log Stepper (DB), Natural	*
200692	18" Log Stepper (DB), Natural	*
200693	28" Log Stepper (DB), Natural	*
224345 183064	Warning Label Package 2-12 (8" Stepper On Label Warning	• /
200331	Label 2-5 Yrs.	
200331	Label 2-12 Yrs.	
200333	Label 5-12 Yrs.	1

DB = Direct Bury

Specifications

Log Stepper Assy.: (Footer Post) Weldment comprised of 5" O.D. x 11

GA. (.120") wall galvanized steel tubing and ³/₁₀ HRPO steel plate. Finish: ProShield, color specified. (Log Stepper-fully assembled) Glass reinforced wet cast solid pour concrete product. Finish: Latex paint

made for concrete, natural colors.

Installation Time: Approx. 1/2 man hour each Approx. 1.78 cu. ft. each 8" - 162 lbs. 18" - 230 lbs. Concrete Req.:

Weight: 28" - 424 lbs.

Installation Instructions

- (Direct Bury) Dig footing as shown. See your Plan View/Footing Layout.
- To unload the log steppers and place in footing holes, a "Lull" type material handler and strap are recommended. Position log steppers in footing holes at dimensions shown, and prop in plumb position. With log steppers and handrail plumb, pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.
- (8" Stepper Only) Apply the warning label and age label for the intended age range.
- Install protective surfacing before users are allowed to play on the structure

^{* =} Quantity Determined By Your Order

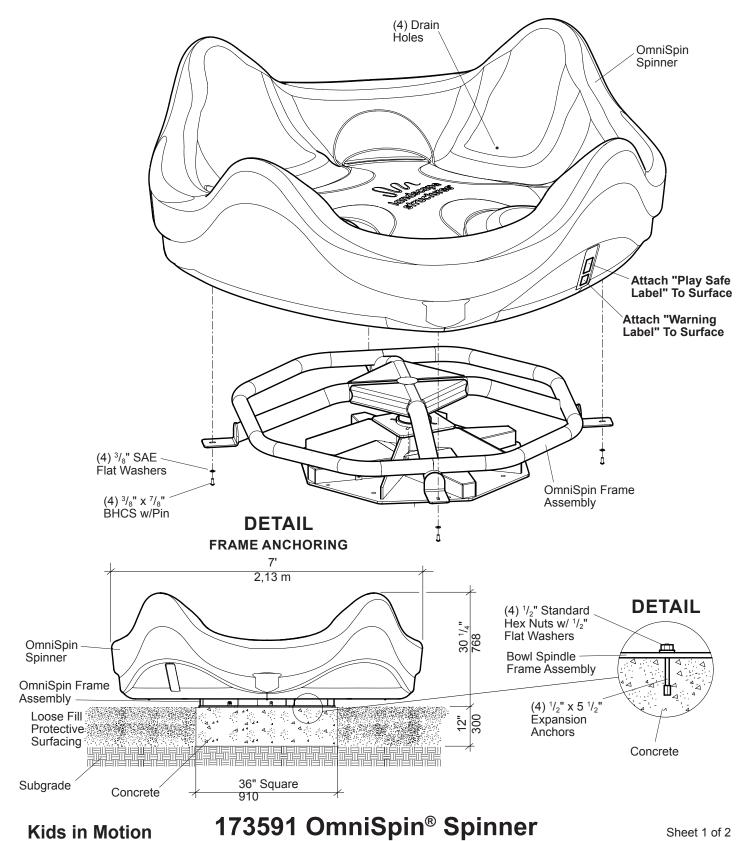






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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Kids in Motion 173591 OmniSpin® Spinner

Parts List

Part#	Description	Qty.
171060	OmniSpin Spinner, Specify Color	1
171061	OmniSpin Spinner Frame Assy., Black	1
183892	OmniSpin Spinner Hardware Package	1
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	4
100365	3/8" SAE Flat Washer, SST	
156846	Play Safe Label, 2-12 Years	
183064	Warning Label	
175599	4 Hole (SM) Hardware Package	1
100271	¹ / ₂ " x 5 ¹ / ₂ " Expansion Anchor w/Nut/Washer	4
SM = Surface	Mount	

Specifications

OmniSpin Spinner: Rotationally molded from U.V. stabilized linear low density polyethylene, color specified.

OmniSpin Spinner

Frame Assembly: (Frame) Weldment comprised of 2.375" O.D. RS20

(.095"-.105" wall) galvanized steel tubing, 2.875" O.D. RS40 (.160"-.170" wall) galvanized steel tubing, 1/4" HR flat steel and 3 1/2" O.D. CF steel bar. (Base) Weldment comprised of 3/8" HRPO sheet steel and 3/16" HRPO sheet steel. (Shock Covers) 16 GA (.060") HRPO sheet steel. (Crank Arms & Pins) Fabricated from stainless steel. (Shocks) Gas shocks with fixed bearings. Finish: ProShield®, black in

color.

Fasteners: Primary fasteners shall be socketed and pinned tam-

perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Installation Time: (Direct Bury) Concrete Footing - 2 People approx.

3 hours

Assembly - 3 People 1 hour

Concrete: (Direct Bury) 9 cu. ft.

Weight: 499 lbs.

Actual Size: 7' x 7' (2,13 m x 2,13 m) **Area Required:** 19' (5,79 m) Diameter ASTM

Fall Height: 18" (460 mm)

Installation Instructions

- 1) **(Direct Bury)** Build and pour concrete footing. Refer to Frame Anchoring Details. Allow concrete footing to cure for a minimum of 72 hours before continuing.
- With OmniSpin Spinner frame in position, drill through 4 outside holes in OmniSpin Spinner frame 5 ¹/₂" deep into concrete slab, using ¹/₂" masonry bit and hammer drill. Refer to the Frame Anchoring Detail.
- 3) Tap ¹/₂" x 5 ¹/₂" expansion anchors into drilled holes and secure using ¹/₂" standard hex nuts with ¹/₂" flat washers. Refer to the Frame Anchoring Details
- 4) Attach OmniSpin Spinner to OmniSpin Spinner frame, using ³/₈" x ⁷/₈" BHCS w/pin and ³/₈" SAE flat washers.
- 5) Apply labels as shown.
- Install protective surfacing before users are allowed to play on the component.



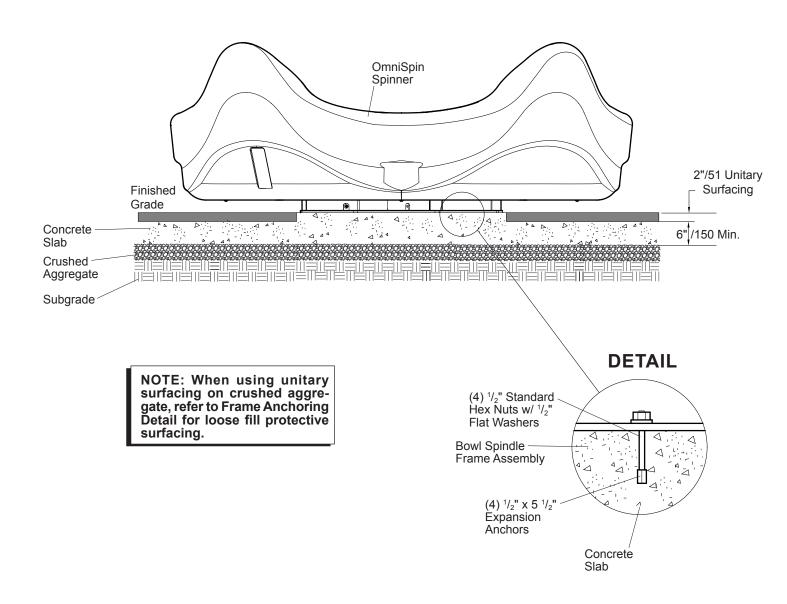




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

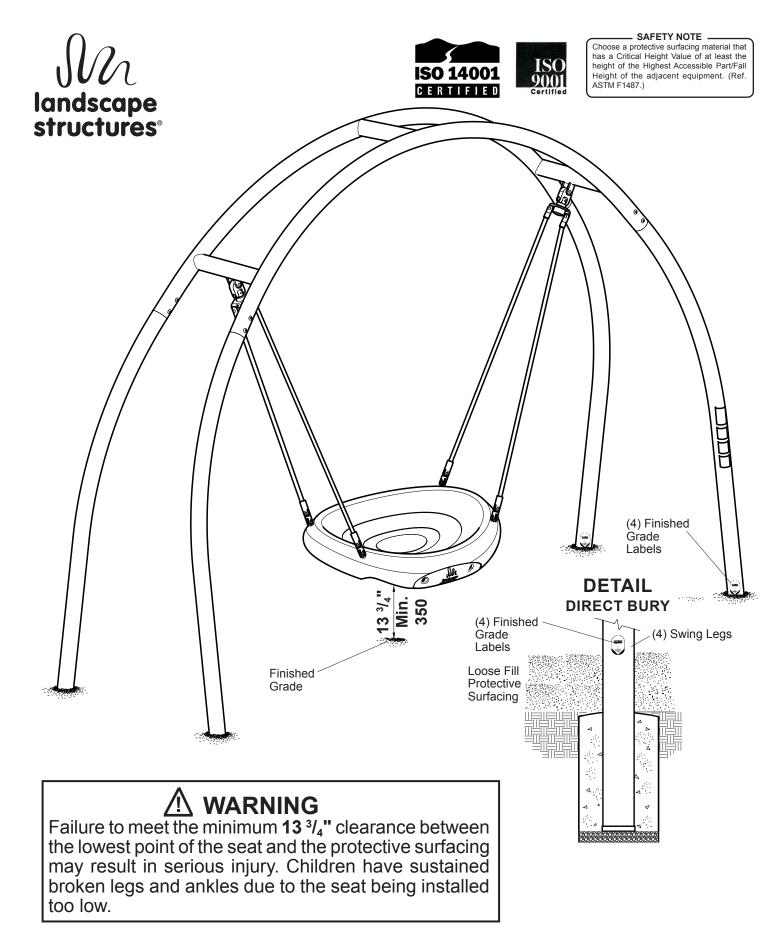
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Unitary Surfacing



Kids in Motion

173591 OmniSpin® Spinner



Swings

173592 Oodle® Swing

Sheet 1 of 3







Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAILSFINISHED GRADE TO SWING SEAT MEASUREMENT







NOTE: Take dimension from the lowest point on the seat.

Swings

173592 Oodle® Swing



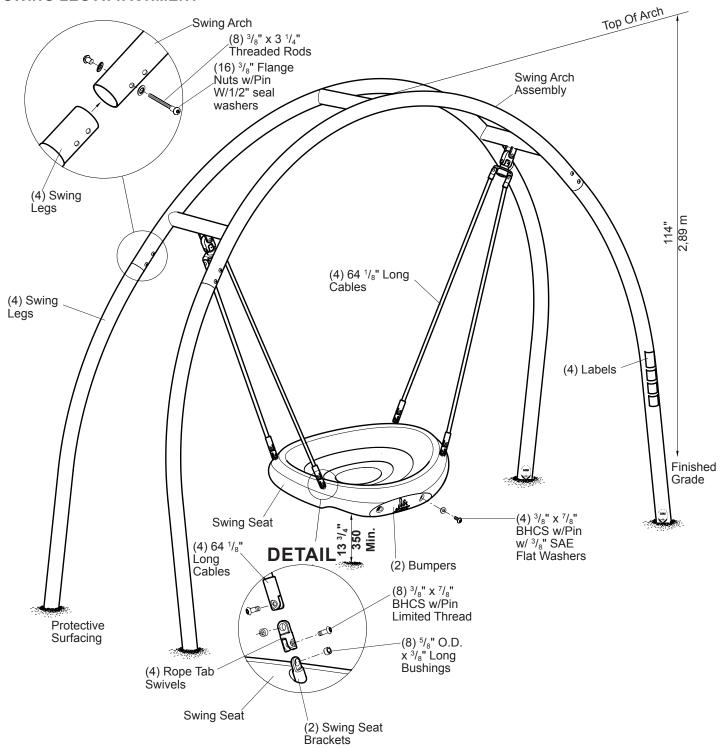




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DETAILSWING LEG ATTACHMENT



Swings

173592 Oodle® Swing

Sheet 2 of 3

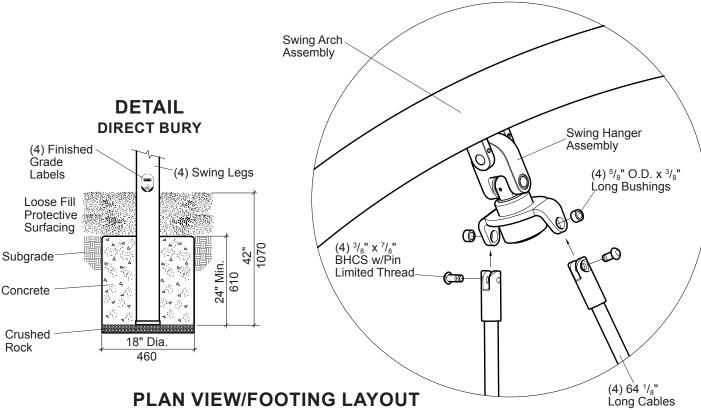


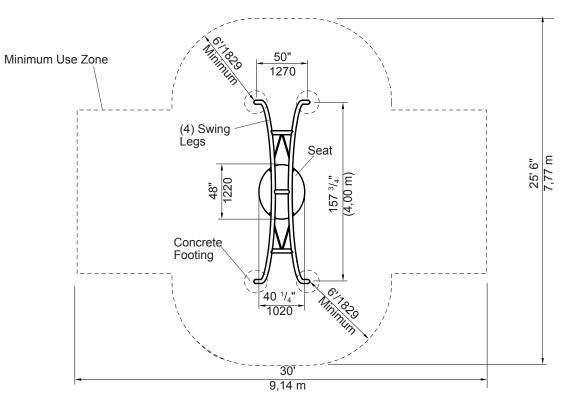




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL CABLE ATTACHMENT





Swings

173592 Oodle® Swing





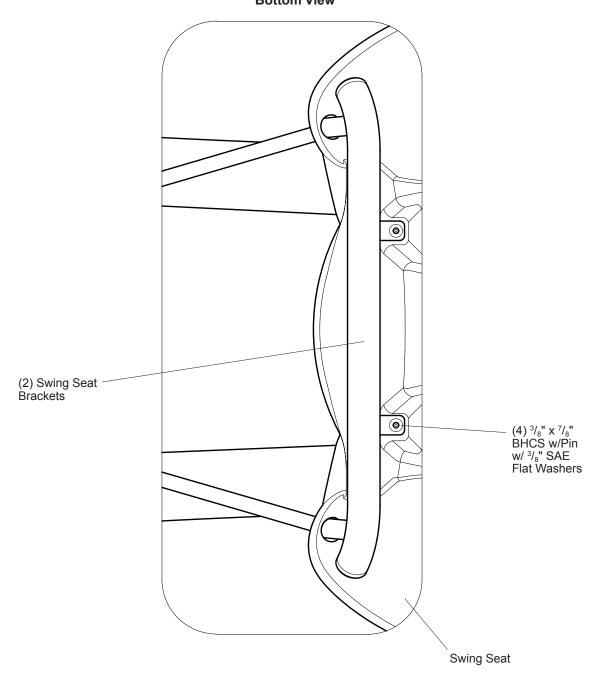


Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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DETAILSWING SEAT ATTACHMENT

Bottom View



Swings

173592 Oodle® Swing

Sheet 3 of 3



Swings 173592 Oodle® Swing

Parts List

Part#	Description	Qty.
193982	Swing Seat, Specify Color	1
172045	Swing Bumper, Black	
174343	Swing Leg, Specify Color	
221013	64 1/8" Swing Cable, Black	
177254	Swing Arch, Specify Color	1
189148	Swing Seat Bracket, Specify Color	
218781	Rope Tab Swivel, Aluminum	4
223117	Oodle Swing Hardware Package	1
100196	3/8" x 7/8" BHCS w/Pin, SST	
100290	3/8" x 7/8" BHCS w/Pin Limited Thread, SST	12
100353	3/8" Flange Nut w/Pin, SST	16
100365	3/8" SAE Flat Washer, SST	8
176539	3/8" x 3 1/4" Threaded Rod, SST	
127179	5/8" O.D. x 3/8" Long Bushing, SST	12
156847	Play Safe Label, 5-12 Yrs	1
182213	Hot Surface Warning Label	1
182212	Entanglement Warning Label	1
115176	Hard Surface Warning Label	
223098	1/2" ID x 1" OD Master Seal Washer	

Specifications

Swing Seat:	Rotationally molded from U.V. stabilized linear low
C	density polyethylene, color specified.

Swing Seat Brkt: Weldment comprised of 1.66" (42,16 mm) O.D. RS20 (.085"-.095") (2,16 mm-2,41 mm) wall galvanized steel tube, 1.000" (25,4 mm) O.D. x .750" (19,05 mm) I.D. 1018 steel tube and 7GA (.179") (4,55

mm) I.D. 1018 steel tube and 7GA (.179") (4,55 mm) HRPO steel sheet. Finish: ProShield®, color specified.

Rope Tab Swivel: Made from 6061-T6 aluminum.

Cable: Made of tightly woven polyester-wrapped, six-strand-

ed galvanized-steel cable with a polypropylene core. (Cable Connectors) 6061-T6 aluminum.

Bumper: Molded from U.V. stabilized black EPDM rubber

encapsulating 11 GA (.120") HRPO steel sheet.

Swing Arch: Weldment comprised of 3.500" O.D. RS20 (.080"-

.090" wall) galvanized steel tube and ½" thick stainless steel tabs. Finish: ProShield®, color specified.

Swing Leg: 3.500" O.D. RS20 (.080"-.090" wall) galvanized

steel tube. Finish: ProShield, color specified.

Swing Hanger

Assembly: Assembly comprised of 300 series stainless steel

knuckle and yoke, stainless steel swing pin, stainless

steel spring pin and oilite bushings.

Fasteners: Primary fasteners shall be socketed and pinned tam-

perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Installation Time: 8 - 10 man hours

Area Required: 25' 6" x 30' (7,77 m x 9,14 m) minimum

Weight: 395 lbs. **Concrete:** .52 cu. yards **Fall Height:** 90" (2,28 m)

Installation Instructions

- Dig footings spaced as shown. Refer to the Plan View/Footing Layout.
- 2) Preassemble the Oodle swing over a clean non-scratching surface.
- 3) Attach swing legs to swing beam assemblies, using $\frac{3}{8}$ " x 3 $\frac{1}{4}$ " threaded rods, $\frac{1}{2}$ " seal washers and $\frac{3}{8}$ " flange nuts w/pin. Refer to the Swing Leg Attachment Detail.
- 4) Stand swing upright onto legs and position in footing holes. Make final adjustments so arch is at proper height and legs are in line with each other.

WARNING: Considering the depth of the surfacing material that will be used under the swing, make sure that the finished grade label (attached on each swing leg) is at the appropriate height. This confirms that the swing can be set at a safe and proper elevation.

- 5) Pour concrete footings and let cure for 72 hours before proceeding.
- 6) Attach bumpers to swing seat, using $^{3}/_{8}$ " x $^{7}/_{8}$ " BHCS w/pin and $^{3}/_{8}$ " SAE flat washers.
- 7) Attach swing seat brackets to swing seat. Refer to the Swing Seat Attachment Detail.
- Attach cables to rope tab swivels. Attach rope tab swivels to swing seat brackets. Refer to the Swing Seat Attachment Detail.
- 9) Attach cables to swing hanger assemblies. Refer to the Cable Attachment Detail.
- 10) Apply Play Safe and Warning Labels, as shown.
- 11) Install protective surfacing before users are allowed to play on the structure.

IMPORTANT: Verify seat has a safe clearance from the surfacing material as shown on sheet 1. Failure to do so could result in a hazardous installation that may result in serious injury.



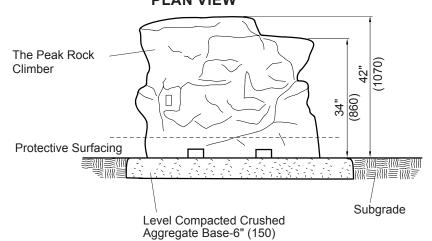




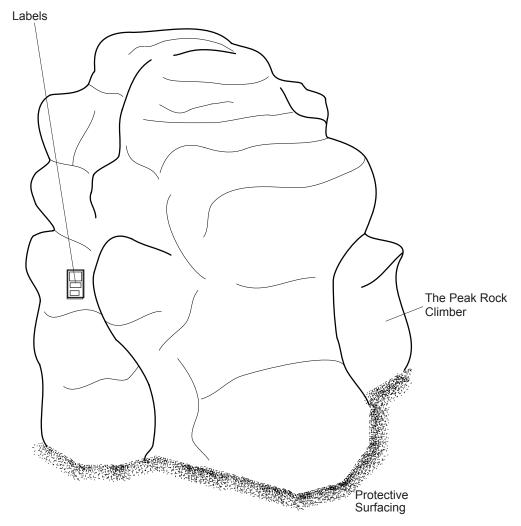
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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DETAIL PLAN VIEW



NOTE: Steel shims (not supplied), may be required to stabilize The Peak Rock Climber when installed on a concrete slab.



Nature-Inspired Climbers

160418 The Peak[™] Rock Climber



Nature-Inspired Climbers 160418 The Peak™ Rock Climber

Parts List

Part#	Description	Qty.
218640	The Peak Rock Climber Assembly	1
224345	Warning Label Package, 2-12	1
183064	Warning Label.	1
200331	Label 2-5 Yrs	1
200332	Label 2-12 Yrs	1
200333	Label 5-12 Yrs	1

Specifications

Peak Assembly:

(Base) Weldment comprised of ${}^{3}/_{16}$ " (.188") sheet steel. Finish: ProShield[®]. (Clips) Weldment comprised of 2" x 2" x $^{1}/_{4}$ " steel angle, 3" x 3" x $^{3}/_{16}$ " steel angle and $^{3}/_{8}$ " diameter steel rod. (**Peak-fully** assembled) Castings are made from Glass Fiber Reinforced Concrete (GFRC). Glass fiber is Alkali Resistant (AR) type glass formulated for concrete. Nominal wall thickness of 1" and weighs about 11 $\frac{1}{2}$ lbs. per square foot. Castings have a strength of 1,500 lbs. per square inch in tension and 5,000 lbs. per square inch in compression. Finish: Latex paint made for concrete, Stone in color.

Installation Time: Approx. 30 minutes

3045 lbs. Weight: Min. Use Zone: 6' (1830 mm)

16' 5" x 17' 4" (5,03 m x 5,28 m) 54" x 64" x 42" high Area Required:

Actual Peak Size:

(1370 mm x 1630 mm x 1070 mm high)

Fall Height: Varies based on surfacing.

Installation Instructions

Warning: Never crawl under any part of The Peak Rock Climber especially when it is only supported by a forklift.

- The Peak Rock Climber must be installed over an area of compacted firm stable soil. The compacted surface must be flat and level.
- To unload The Peak Rock Climber a fork lift is recommended. Maximum fork extension size is 3" high x 7" wide with no maximum length. NOTE: At least 2 people are recommended for The Peak Rock Climber installation. One person to operate the fork lift and one person to spot for the operator.
- Pick up The Peak Rock Climber by inserting the fork lift forks into the Peak pockets. Be very careful to keep The Peak Rock Climber level to the ground when raising or lowering. Do not tip The Peak Rock Climber on a corner or edge. Do not contact the concrete face of The Peak Rock Climber with material handler forks, chipping can occur.
- Apply the warning label and age label for the intended age range.
- Install protective surfacing before users are allowed to play on the structure.
- NOTE: After installation if Touch-up/Repairs are needed, contact Landscape Structures at 1-888-574-4678.



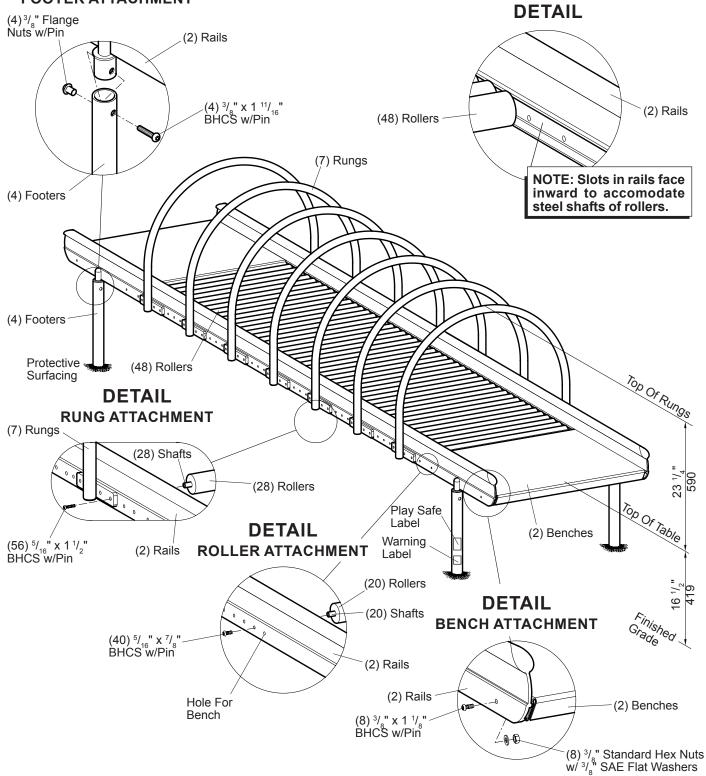




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

17778700

DETAILFOOTER ATTACHMENT



Sensory Play

176457 Roller Table™

Sheet 1 of 2

Iandscape structures

Sensory Play 176457 Roller Table™

Parts List

Part#	Description	Qty
104278	30 ³ / ₈ " Roller Shaft	
115347	Roller Assembly, Specify Color	
168256	Footer, (SM), Specify Color	4
171216	Footer, (DB), Specify Color	
168257	Rail, Specify Color	
168259	Bench, Specify Color	2
177421	Rung, Specify Color	
184633	Roller Table Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	
100327	³ / ₈ " Standard Hex Nut, SST	8
100353	³ / ₈ " Flange Nut w/Pin, SST	
100365	³ / ₈ " SAE Flat Washer, SST	8
123224	³ / ₈ " x 1 ¹¹ / ₁₆ " BHCS w/Pin, SST	4
132626	⁵ / ₁₆ " x ⁷ / ₈ " BHCS w/Pin, SST	40
149841	⁵ / ₁₆ " x 1 ¹ / ₂ " BHCS w/Pin, SST	56
156847	Play Safe Label, 5-12 Yrs	1
183064	Warning Label	
111392	2-Hole (SM) Hardware Package	4
100266	¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	
100322	1/2" Standard Hex Nut, SST	
100363	1/2" Flat Washer, SST	
DB = Direct Bur		

Specifications

SM = Surface Mount

Roll

Sup

Roners:	galvanized steel tubing. Finish: TenderTuff®, color specified.
er Shafts:	Fabricated from ½" diameter CRS zinc-plated with yellow chromate finish.
port Leg:	Fabricated from 1.900" O.D. RS20 (.090"100") galvanized steel tubing. Finish: ProShield®, color specified.
Rail:	Extruded from 6005-T1 aluminum. Finish: ProShield, color specified.
Bench:	Weldment comprised of 11 GA. (.120") HRPO flat

steel. Finish: TenderTuff, color specified.

Weldment comprised of 1.315" O.D. RS20 (.080"-.090") galvanized steel tube, $^{5}/_{8}$ " HRPO steel sheet and 12 GA. (.105") HRPO steel sheet. Finish: Pro-

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Shield, color specified.

Installation Time: Approx. 8 man hours Approx. 5.24 cu. ft.

Area Req.: $25^{\circ}2'' \times 14' \cdot 9^{1}/_{2}'' (7,67 \text{ m x } 4,50 \text{ m})$

Weight: 542 lbs. (DB) 530 lbs. (SM)

Fall Height: $16 \frac{1}{2}$ " (419 mm)

Installation Instructions

- (Direct Bury) Dig footing holes spaced as shown.
- 2) Attach one bench to ends of rails, using $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin and $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " SAE flat washers. Refer to the Bench Attachment Detail. **NOTE:** Slots in rails face inward to accommodate steel shafts of rollers.
- 3) Insert the 30 $\frac{3}{8}$ " steel roller shafts into the rollers. Starting at the end of the rails with the bench, attach rollers to rails, using $\frac{5}{16}$ " x $\frac{7}{8}$ " BHCS w/pin. Refer to Roller Attachment Detail. **NOTE:** Refer to Roller/Rail Assembly Detail for spacing of rungs.
- 4) Attach rungs to rails and rollers, using ⁵/₁₆" x 1 ¹/₂" BHCS w/pin. Refer to Rung Attachment Detail. NOTE: Refer to Roller/Rail Assembly Detail for spacing of rungs.
- 5) Attach bench to end of rails, using ³/₈" x 1 ¹/₈" BHCS w/pin and ³/₈" standard hex nuts with ³/₈" SAE flat washers. Refer to the Bench Attachment Detail.
- 6) Attach the footers to bottom of rails, using $^3/_8$ " x 1 $^{11}/_{16}$ " BHCS w/Pin with $^3/_8$ " flange nuts w/Pin. Refer to Footer Attachment Detail.
- 7) (Direct Bury) With footers plumb pour concrete footings. Allow concrete footings to cure for a minimum of 72 hours before users are allowed to play on the structure.

(Surface Mount) Mark anchor bolt locations on concrete slab through holes in footer plates. Move roller table aside. Drill $^{1}/_{2}$ " x 3" deep holes on marks into concrete, using a hammer drill and $^{1}/_{2}$ " masonry bit. Reposition roller table. Tap expansion anchors into drilled holes. Fasten footer plates to expansion anchors using $^{1}/_{2}$ " standard hex nuts with $^{1}/_{2}$ " flat washers.

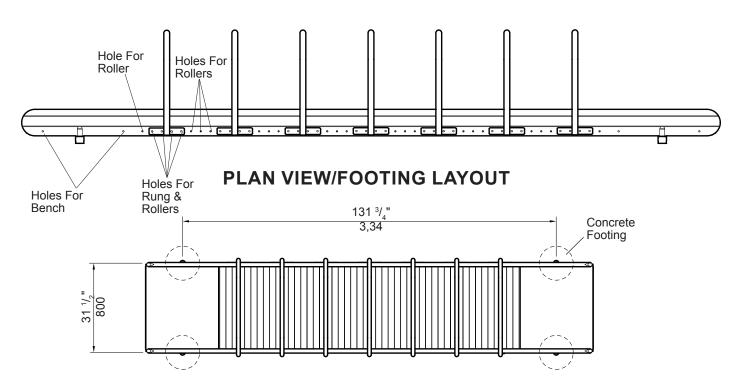
- 8) Apply labels as shown.
- Install protective surfacing before users are allowed to play on the structure.



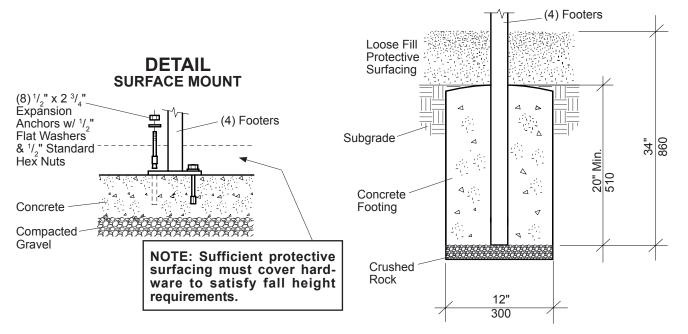
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

176474a

DETAIL ROLLER/RAIL ASSEMBLY



DETAILDIRECT BURY



Sensory Play

176457 Roller Table™

Sheet 2 of 2

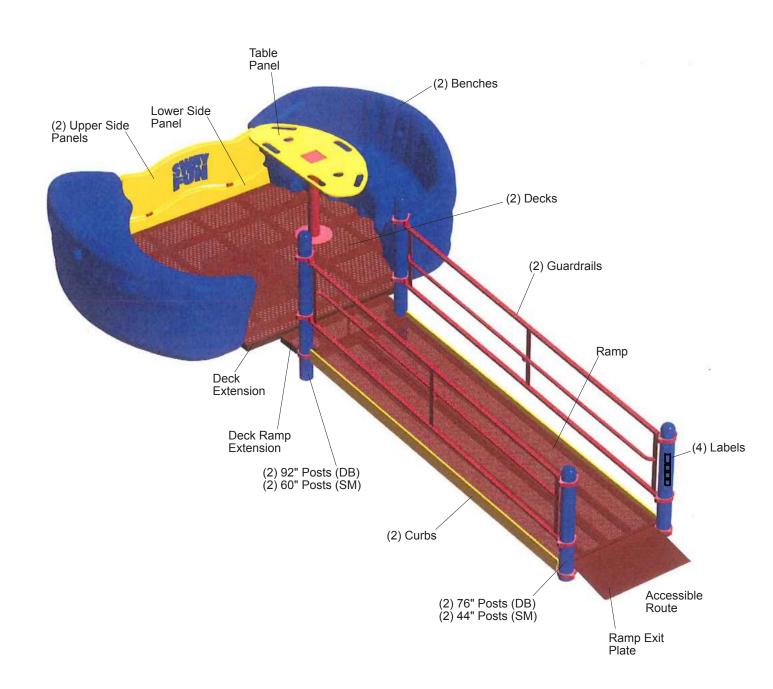






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

18912200



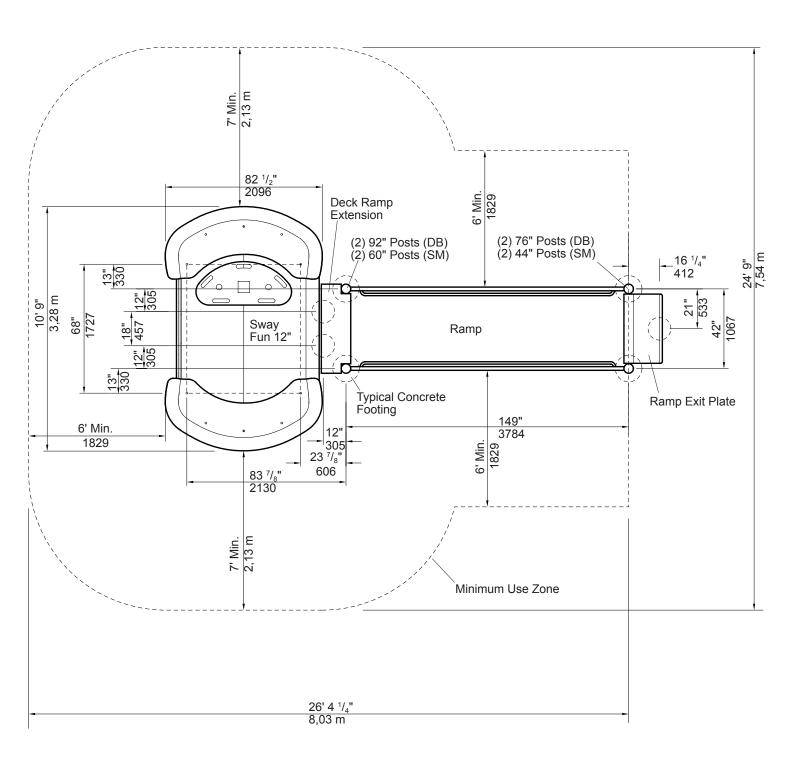






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

177996z



Sensory Play

Plan View/Footing Layout

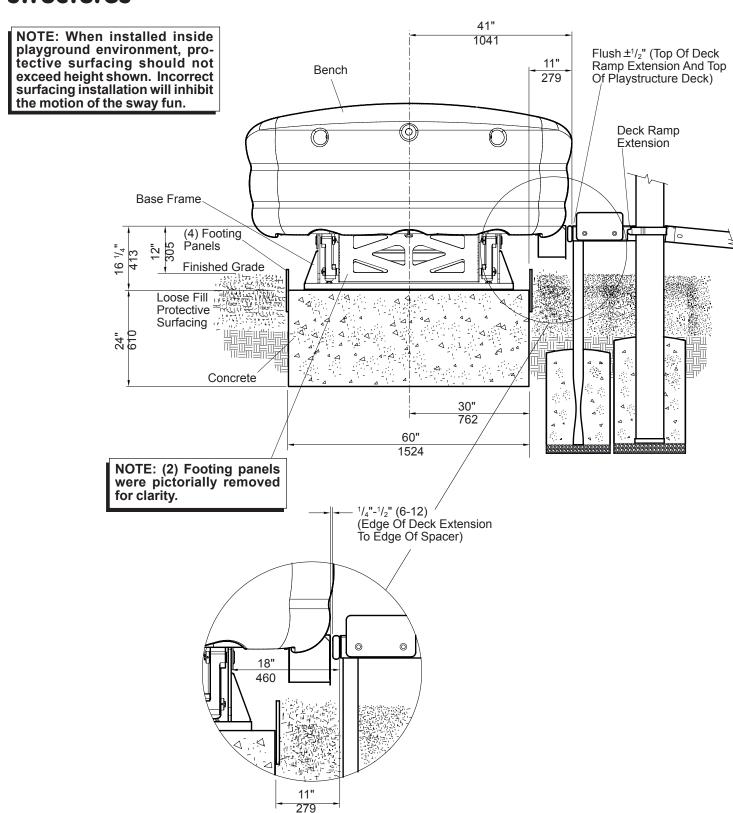






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

177996a



Sensory Play

Access From Playstructure Deck

landscape structures[®]

(8) ³/₈" x 1 ³/₈" BHCS w/Pin



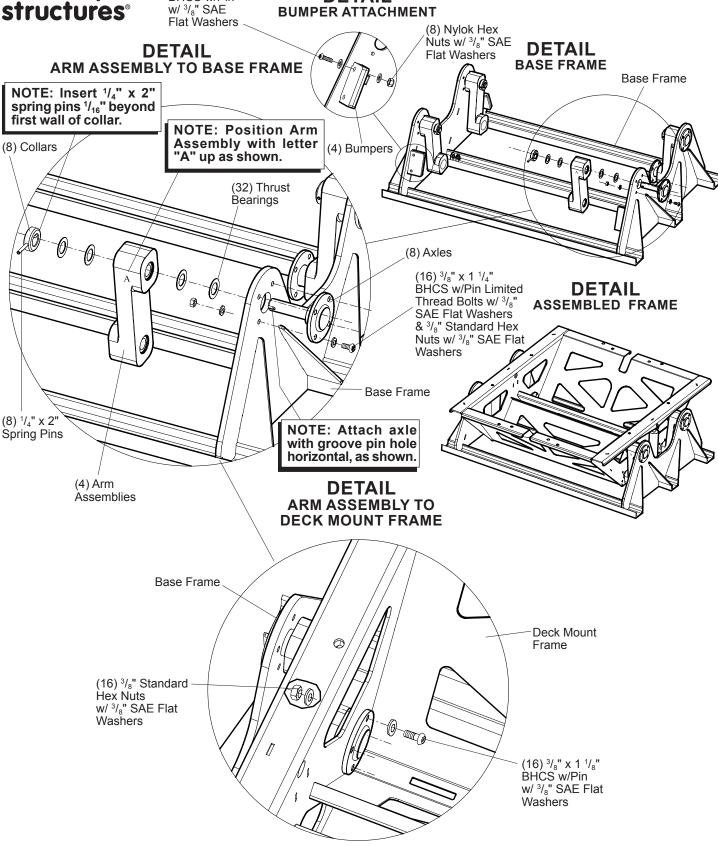


SAFETY NOTE

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

169678b0

DETAIL BUMPER ATTACHMENT



Sway Fun® Assembly





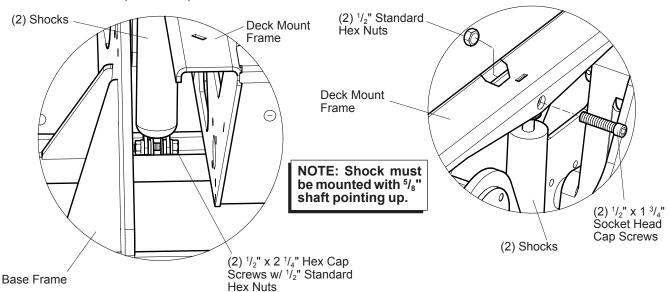


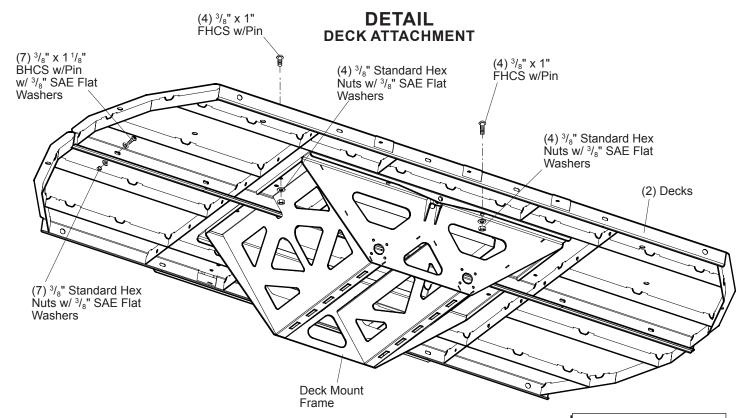
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

145160c0

DETAIL SHOCK TO FRAME ATTACHMENT (BOTTOM)

DETAIL SHOCK TO FRAME ATTACHMENT (TOP)





NOTE: Shown without Base Frame for clarity.

Sensory Play

Sway Fun® Assembly

Sheet 3 of 11

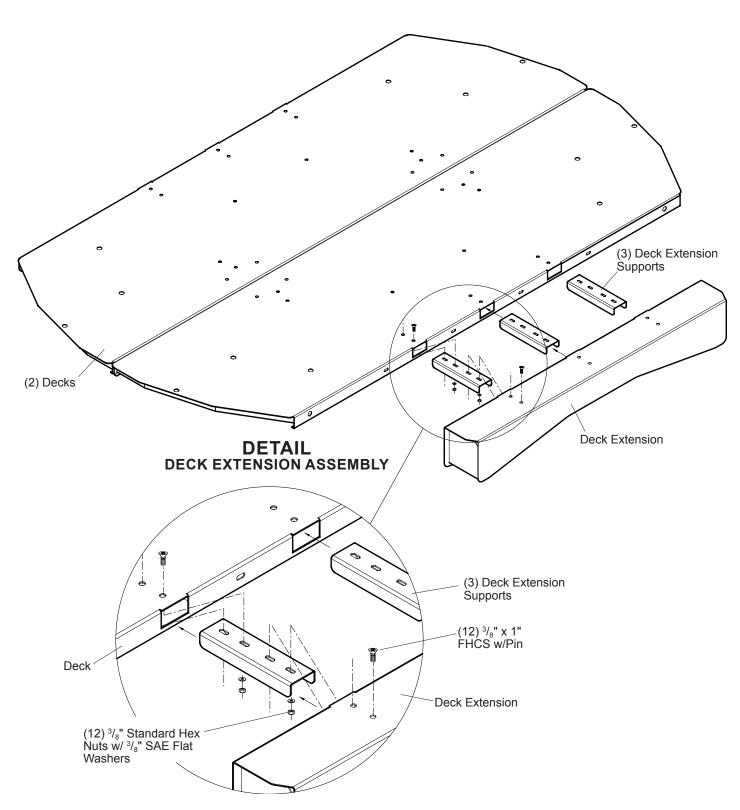






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

170875d0



Sway Fun® Assembly

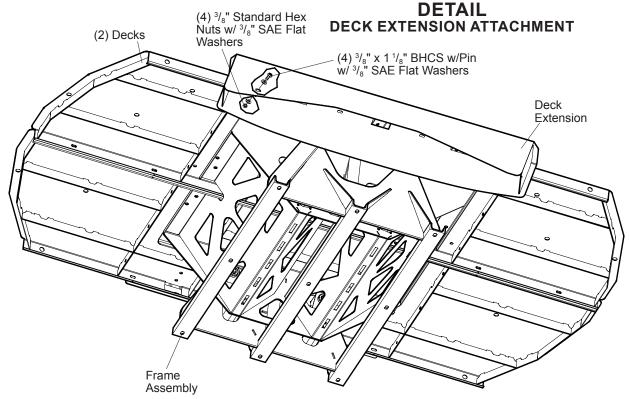


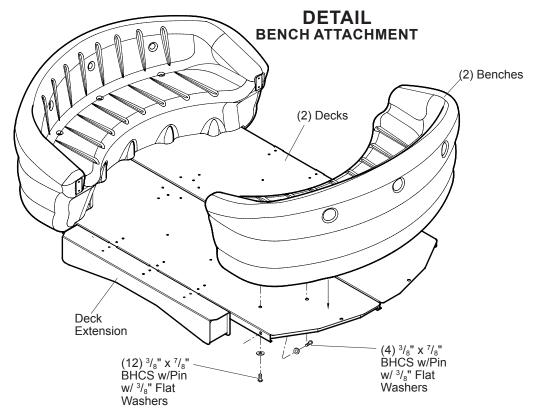




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

170875e0





Sensory Play

Sway Fun® Assembly

Sheet 4 of 11



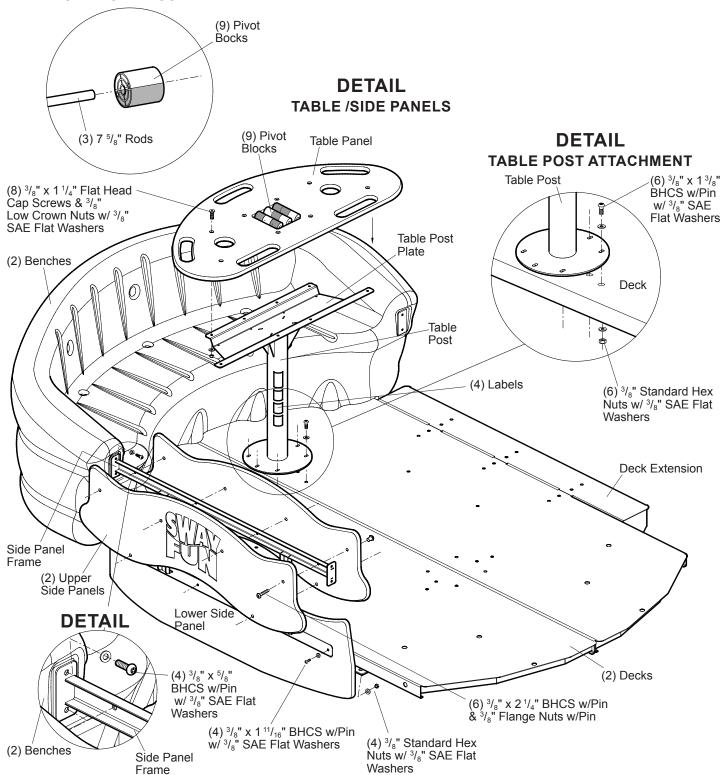




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

184475f0

DETAILPIVOT BLOCK ASSEMBLY



Sensory Play

Sway Fun® Assembly

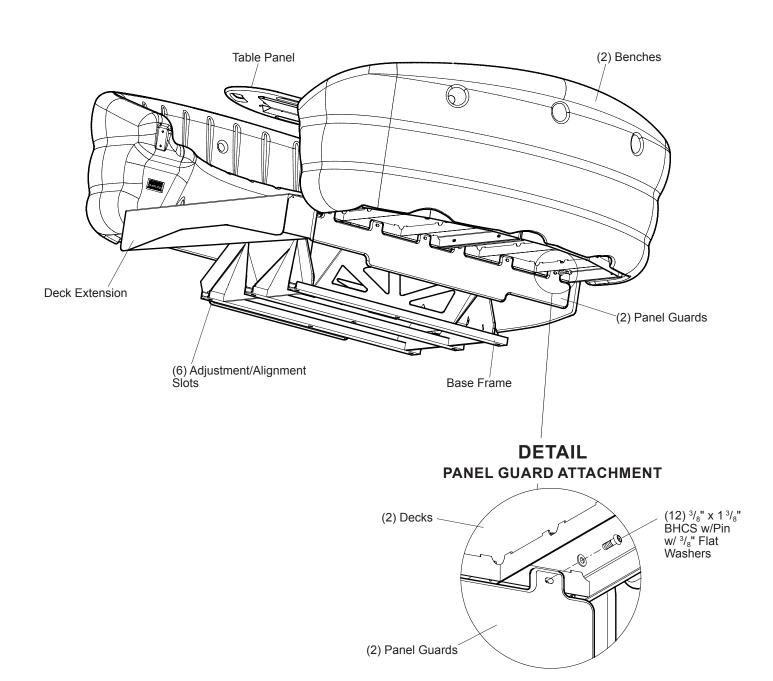






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

170875g0



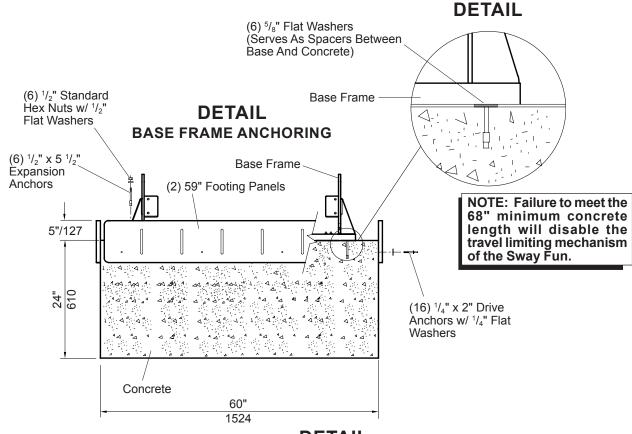




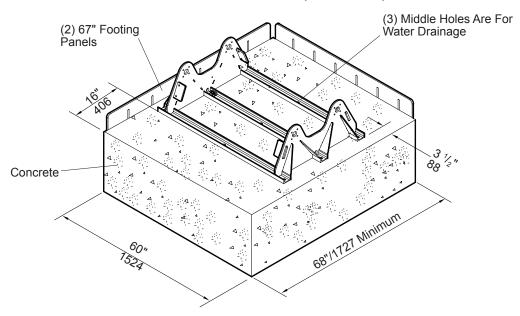


Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

177996h



DETAIL BASE FRAME ANCHORING (TOP VIEW)



Sensory Play

Sway Fun® Base Frame

Sensory Play 177140 Sway Fun®, 12" High w/Ramp, **Guardrails & Curbs**

(1279,52 mm) wide x $22^{-15}/_{16}$ " (582,60 mm)deep, color specified.

Table Post:

Weldment comprised of 3.500" (88,9 mm) O.D. RS-20 (.125") (3,18 mm) galvanized steel tubing, 11 GA. (.120) (3,05 mm) HRPO ASTM A1011 sheet steel and 1/4 (6,35 mm) HRS flat steel. Finish: ProShield, color specified.

Side Panels:

Permalene, color specified.

Spacer:

Permalene, black in color.

Side

Panel Frame:

Weldment comprised of 11 GA (.120") (3,05 mm) sheet steel conforming to ASTM A1011.

Finish: ProShield, color specified.

Flange formed from 11 GA (.120") (3,05 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with 5/16" (7,93 mm) diameter holes. Finish: TenderTuff, color

specified.

Deck Extension:

Flange formed from 11 GA (.120") (3,05 mm) sheet steel conforming to ASTM A1011. Finish:

TenderTuff, color specified.

Deck

Formed from 11 GA(.120") (3,05 mm) sheet steel **Extension Support:**

conforming to ASTM A1011. Finish: ProShield,

color specified.

Panel Guard: Permalene, color specified.

Footing Panels: Solid color Permalene, gray in color.

Arm Assembly: Machined from 6061-T6 aluminum.

> Axle: Weldment comprised of 304 stainless steel.

Base Frame:

Weldment comprised of 3" x 5" (76 mm x 127 mm) structural steel C channel, \(^1/_4\)" (6,35 mm) HRS flat steel, $\frac{1}{2}$ " (12,7 mm) HRS flat steel and $\frac{1}{2}$ " (12,7 mm) HRPO flat steel. Finish: Hot dip

galvanized per ASTM A123.

Upper Shock

Mount Bracket: Weldment comprised of 7 Ga. (.180") (4,57 mm)

sheet steel conforming to ASTM A1011. Finish:

Hot dip galvanized per ASTM A123.

Deck Mount Frame: Weldment comprised of 11 GA(.120") (3,05 mm)

sheet steel, 7 Ga. (.180") (4,57 mm) HRPO flat steel and ¹/₄" (.250") (6,35 mm) HRPO flat steel. Finish: Hot dip galvanized per ASTM A123.

Fasteners:

Concrete Req.:

Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see

specific product installation/specifications).

Installation Time: Approx. 22 ¹/₄ man hours DB)

Approx. 20 man hours (SM)

Approx. 66 cu. ft. (DB) 24' 9" x 26' 4 ¹/₄" (7,54 m x 8,03 m) Area Req.:

2071 lbs. Aluminum (DB) Weight: 2193 lbs. Steel (DB)

2041 lbs. Aluminum (2" SM)

2127 lbs. Steel (2" SM) Fall Height: 12" (305 mm) Deck Height

Parts List

Part#	Description	Qty.
134775	Bench, Specify Color	
136761	Table Panel, Specify Color	
136817	Table Post, Specify Color	1
136857	Upper Side Panel, Specify Color	
170170	Lower Side Panel, Specify Color	
136833	Side Panel Frame, Specify Color	1
137932	Deck, Specify Color	
170171	Deck Extension, Specify Color	
137930	Deck Extension Support, Specify Color	
170172	Panel Guard, Specify Color	
138409	Arm Assembly	
143076	Axle	
169461	Base Frame	
144448	Deck Mount Frame	
144025	Shock	
189077	Spacer, Deck Mount, Black	
170407	59" Footing Panel, Gray	
170408	67" Footing Panel, Gray	
237020	Sway Fun Hardware Package #1	
100195	³ / ₈ " x ⁵ / ₈ " BHCS w/Pin, SST	4
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	
100199	³ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	
100252	³ / ₈ " x 1 ¹ / ₄ " Flat Head Cap Screw, SST	
100271	1/2" x 5 1/2" Exp. Anchor(w/Nut & Washer),SST	
100292	³ / ₈ " x 1 ¹ / ₄ " BHCS w/Pin Ltd. Thread Bolt, SST	
100327	3/8" Standard Hex Nut, SST	
100353	³ / ₈ " Flange Nut w/Pin, SST	
100362	³ / ₈ " Flat Washer, SST	28
100365	3/8" SAE Flat Washer, SST	166
100366	⁵ / ₈ " Flat Washer, SST	6
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	26
100261	¹ / ₄ " x 2" Drive Anchor	16
100349	³ / ₈ " x 16" L/C Nut Cap, SST	8
237021	Sway Fun Hardware Package #2	1
121135	1/4" x 2" Spring Pin, SST	
123224	³ / ₈ " x 1 ¹¹ / ₁₆ " BHCS w/Pin, SST	4
128391	Pivot Block, Tan/Brown	9
129692	1/2" Standard Hex Nut, SST	
131862	¹ / ₂ " x 2 ¹ / ₄ " Hex Cap Screw, SST	2
137777	Thrust Bearings	
137779	Collar, SST	
171013	7 ⁵ / ₈ " Rod, AL	
122039	¹ / ₄ " Flat Washer, SST	
156846	Play Safe Label, 2-12 Yrs	
136931	³ / ₈ " Nylok Hex Nuts, SST	8
167612	Rubber Bumper	
137091	³ / ₈ " x 1" FHCS w/Pin, SST	22
156847	Play Safe Label, 5-12 Yrs	
182213	Hot Surface Warning Label	
182212	Entanglement Warning Label	
115176	Hard Surface Warning Label	
145157	¹ / ₂ " x 1 ³ / ₄ " Socket Head Cap Screw, SST	2
1.010/	72 K 1 74 Goodet Head Cap Gerew, Go 1	2

Specifications

Rotationally molded from U.V. stabilized linear Bench:

low density polyethylene, color specified.

Table Panel: Solid color Permalene® table measures 50 ³/₈"

Iandscape structures

Sensory Play 177140 Sway Fun®, 12" High w/Ramp, Guardrails & Curbs

Installation Instructions

- 1) Build and pour concrete footing. Refer to Base Frame Anchoring Details. Allow concrete footing to cure for a minimum of 72 hours before continuing. **NOTE:** Failure to meet the 68" minimum concrete length will disable the travel limiting mechanism of the Sway Fun.
- 2) With base frame in position, drill through 6 outside holes in base frame 5" deep into concrete slab using 1/2" masonry bit and hammer drill. Refer to the Base Frame Anchoring Detail. NOTE: Position 5/8" flat washers between base frame outside holes and concrete. Refer to the Base Frame Anchoring Details.
- Tap expansion anchors into drilled holes and secure using ¹/₂" standard hex nuts with ¹/₂" flat washers. Refer to the Base Frame Anchoring Details.
- 4) Attach axles to deck mount frame using thrust bearings, collars, ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers. **NOTE:** Attach axles with groove pin hole horizontal, as shown. Refer to the Arm Assembly To Deck Mount Frame Detail.
- 5) Attach arm assemblies to deck mount frame axles using thrust bearings, collars and ¹/₄" x 2" spring pins. Place collar with pin on axle using the groove pinhole as a guide, insert spring pin in until flush with collar. Refer to the Arm Assembly To Base Frame Detail.
- 6) Attach arm assemblies with letter "A" up as shown to deck mount frame axles using thrust bearings, collars and 1/4" x 2" spring pins. Place collar with pin on axle using the groove pinhole as a guide, insert spring pin in until flush with collar. Refer to the Arm Assembly To Base Frame Detail.
- 7) Attach bumpers to base frame plates using 1 ³/₈" BHCS w/pin with ³/₈" SAE flat washer and ³/₈" nylok hex nuts with ³/₈" SAE flat washers. Refer to the Bumper Attachment Detail.
- 8) Stage and set axles to the arm assembly with thrust bearings on axle prior to attaching axles to base frame using ³/₈" x 1 ¹/₄" BHCS w/pin limited thread bolts with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers. **NOTE:** *Attach axles with groove pin hole horizontal. Refer to the Arm Assembly To Base Frame Detail.*
- 9) Attach thrust bearings and ½" x 2" spring pins to the collar. Place collar with pin on axle using the groove pinhole as a guide, insert spring pin in until flush with collar. NOTE: Insert ½" x 2" spring pin ½6" beyond first wall of collar. Refer to the Arm Assembly To Base Frame Detail.
- 10) Attach deck extension to deck using deck extension supports, ³/₈" x ⁷/₈" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers. Refer to the Deck Extension Assembly Detail.
- 11) Fasten deck extension to deck face using 3/8" x 1 1/8" BHCS w/pin with 3/8" SAE flat washers and 3/8" standard hex nuts with 3/8" SAE flat washers. Refer to the Deck Extension Attachment Detail.
- 12) Loosely attach decks to deck mount frame using $^3/_8$ " x $^7/_8$ " BHCS w/pin with $^3/_8$ " SAE flat washers and $^3/_8$ " standard hex nuts with $^3/_8$ " SAE flat washers on deck mount frame ends and $^3/_8$ " x 1 $^1/_8$ " BHCS w/pin with $^3/_8$ " SAE flat washers and $^3/_8$ " standard hex nuts with $^3/_8$ " SAE flat washers on deck mount frame sides. Refer to the Deck Attachment Detail.

- 13) Attach decks to each other using $^3/_8$ " x 1 $^1/_8$ " BHCS w/pin with $^3/_8$ " SAE flat washers and $^3/_8$ " standard hex nuts with $^3/_8$ " SAE flat washers. Refer to the Deck Attachment Detail.
- 14) Tighten bolts from decks to deck mount frame.
- 15) Attach benches to decks using ³/₈" x ⁷/₈" BHCS w/pin with ³/₈" flat washers. Refer to the Bench Attachment Detail.
- 16) Attach table post to decks using ³/₈" x 1 ³/₈" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers. Refer to the Table Post Attachment Detail.
- 17) Position $7^{5}/_{8}$ " rods with pivot blocks between table post plate and table panel.
- 18) Attach table panel to table post plate using $^{3}/_{8}$ " x 1 $^{1}/_{4}$ " flat head cap screws and $^{3}/_{8}$ " standard hex nuts with $^{3}/_{8}$ " SAE flat washers. Refer to the Pivot Block Assembly Detail.
- 19) Attach side panel frame to benches using ³/₈" x ⁵/₈" BHCS w/pin with ³/₈" SAE flat washers. Refer to the Table/Side Panels Detail.
- 20) Attach side panel frame and lower side panel to the deck using ³/₈" x 1 ¹¹/₁₆" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers. Refer to the Table/Side Panels Detail.
- 21) Attach upper side panels to side panel frame using ³/₈" x 2 ¹/₄" BHCS w/pin and ³/₈" flange nuts w/pin. Refer to the Table/Side Panels Detail.
- 22) Attach panel guards to decks using $^{3}/_{8}$ " x 1 $^{3}/_{8}$ " BHCS w/pin with $^{3}/_{8}$ " flat washers. Refer to the Panel Guard Attachment Detail.
- 23) (Footing Panels to concrete footing) Using footing panels as a guide, drill holes 2" deep into concrete footing using a ¹/₄" masonry bit and hammer drill. Secure footing panels to concrete footing, using ¹/₄" x 2" drive anchors and ¹/₄" flat washers. Refer to the Base Frame Anchoring Detail.
- 24) Apply Play Safe and Warning Labels, as shown.
- 25) If installed in playground environment, install protective surfacing before users are allowed to use Sway Fun. NOTE: When installed inside playground environment, protective surfacing should not exceed height shown. Incorrect surfacing installation will inhibit the motion of the Sway Fun.

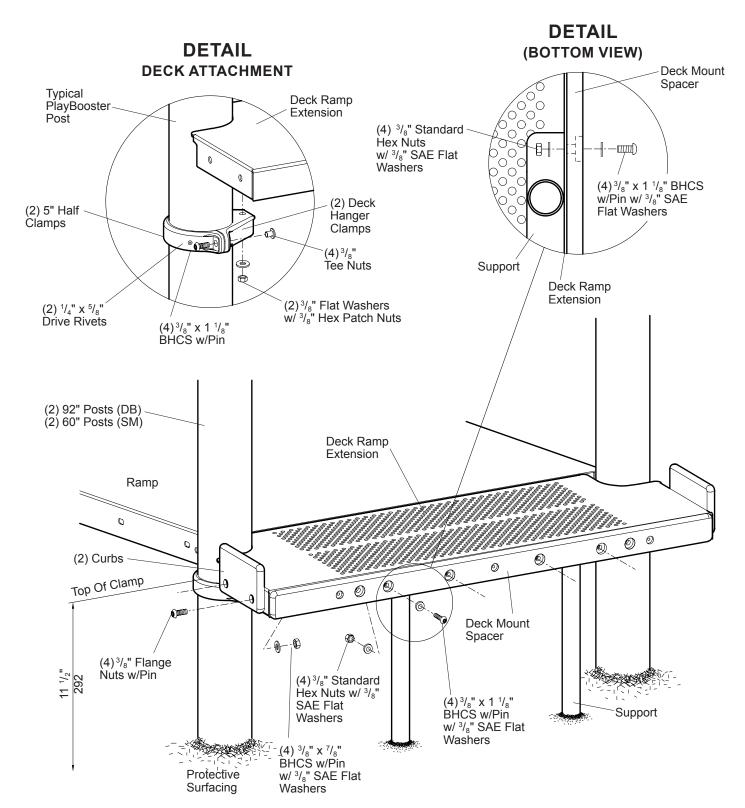






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

189122d



Sensory Play

Deck Ramp Extension

Sheet 7 of 11



Sensory Play 177140 Sway Fun®, 12" High w/Ramp, Guardrails & Curbs

Parts

Part#	Description	Qty.
105327	5" Half Clamp, Specify Color	
107509	92" Steel PlayBooster Post, DB, Specify Color	
107681	92" Al. PlayBooster Post, DB, Specify Color	*
107460	60" Steel PlayBooster Post, SM, Specify Color	*
107610	60" Al. PlayBooster Post, SM, Specify Color	
106022	Deck Hanger Clamp, Specify Color	2
182781	Curb, Specify Color	2
163641	Deck Ramp Extension, Specify Color	1
181399	Support, DB, Specify Color	
181402	Support, 2" SM (12" Deck), Specify Color	1
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	2
182782	Deck Ramp Extension Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	
100321	3/8" Hex Patch Nut, SST	2
100327	3/8" Standard Hex Nut, SST	
100351	3/8" Tee Nut, SST	4
100362	3/8" Flat Washer, SST	
100362	3/8" SAE Flat Washer, SST	
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	4
100353	³ / ₈ " Flange Nuts w/Pin, SST	
111394	4-Hole (SM) Hardware Package	1
100263	³ / ₈ " x 2 ³ / ₄ " Expansion Anchor	4
100327	3/8" Standard Hex Nut, SST	4
100362	³ / ₈ " Flat Washer, SST	4
121348	4-Hole (SM) Hardware Package	2
100266	¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	
100322	1/2" Standard Hex Nut, SST	8
100363	¹ / ₂ " Flat Washer, SST	8
CN/ C C	M. A	

SM = Surface Mount

DB = Direct Bury

* = Quantity Determined By Your Order

Specifications

Deck Ramp Ext.:

Flange formed from 11 GA (.120") (3,05 mm) sheet steel conforming to ASTM A1011. Standing surface is perforated with $^{5}/_{16}$ " (7,93 mm) diameter holes. Deck face has (4) slotted holes for face mounting components. The finished size measures 2 $^{5}/_{8}$ " x 15 $^{3}/_{4}$ " x 47" (66,67 mm x 400,05 mm x 1193 mm). Finish: TenderTuff®, color specified.

Posts: See PlayBooster® General Specifications.

Support (DB):

Weldment comprised of 1.660" (42,16 mm) O.D. RS20 (.085"-.095") (2,15 mm-2,41 mm) wall galvanized steel tubing and $1^{3}/_{4}$ " x $1^{3}/_{4}$ " x $1^{3}/_{4}$ " (44,45 mm x 44,45 mm x 3,17 mm) HR angle. Finish: ProShield®, color specified.

Curb: Permalene®, color specified.

Clamps: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tam-

perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Installation Instructions

- (Direct Bury) Dig footings as shown. Refer to the Plan View/Footing Layout.
- 2) Fasten hanger clamp assemblies to posts at height shown.
- 3) Lift deck ramp extension into position, lining up studs underneath deck ramp extension with deck hanger clamps as shown. Attach with ³/₈" flat washers and ³/₈" hex patch nuts.
- 4) Attach curbs to deck ramp extension, using ${}^{3}/_{8}$ " x ${}^{7}/_{8}$ " BHCS w/pin with ${}^{3}/_{8}$ " SAE flat washers and ${}^{3}/_{8}$ " flange nuts w/pin.
- 5) Attach deck mount spacer and support to deck ramp extension, using ³/₈" x 1 ¹/₈" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" standard hex nuts with ³/₈" SAE flat washers. Refer to Detail.
- 6) Level deck and plumb posts. Install ¹/₄" x ⁵/₈" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- 7) (Direct Bury) Pour concrete footings per the Direct Bury Detail. Allow concrete footings to cure a minimum of 72 hours before users are allowed to play on the structure. NOTE: Do not pour concrete footings until structure is fully assembled.

(Surface Mount Support) With support plumb, drill 3" deep holes into concrete slab through holes in support plates, use a $\frac{3}{8}$ " masonry bit and $\frac{3}{8}$ " hammer drill. Tap $\frac{3}{8}$ " x 2 $\frac{3}{4}$ " expansion anchors into holes and secure using $\frac{3}{8}$ " standard hex nuts with $\frac{3}{8}$ " flat washers. Refer to the Surface Mount Support Detail. **NOTE:** *Do not anchor support to concrete until structure is fully assembled.*

(Surface Mount Posts) With posts plumb, drill 3" deep holes into concrete slab through holes in support plates, use a $^{1}/_{2}$ " masonry bit and $^{1}/_{2}$ " hammer drill. Tap $^{1}/_{2}$ " x 2 $^{3}/_{4}$ " expansion anchors into holes and secure using $^{1}/_{2}$ " standard hex nuts with $^{1}/_{2}$ " flat washers. Refer to the Surface Mount Posts Detail. **NOTE:** *Do not anchor posts to concrete until structure is fully assembled.*

 Install protective surfacing before users are allowed to play on the structure.





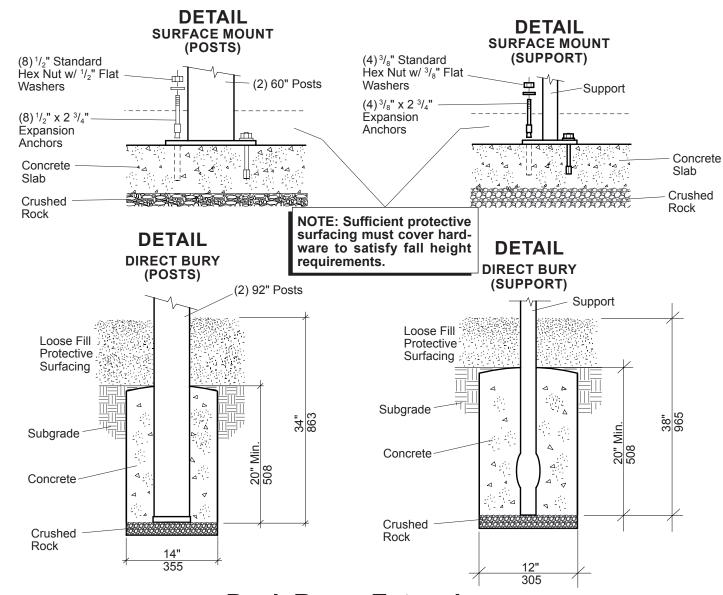


Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

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PLAN VIEW/FOOTING LAYOUT Typical Concrete Footing (2) PlayBooster Posts Support 12" 18" 305 457

1067



landscape structures[®]

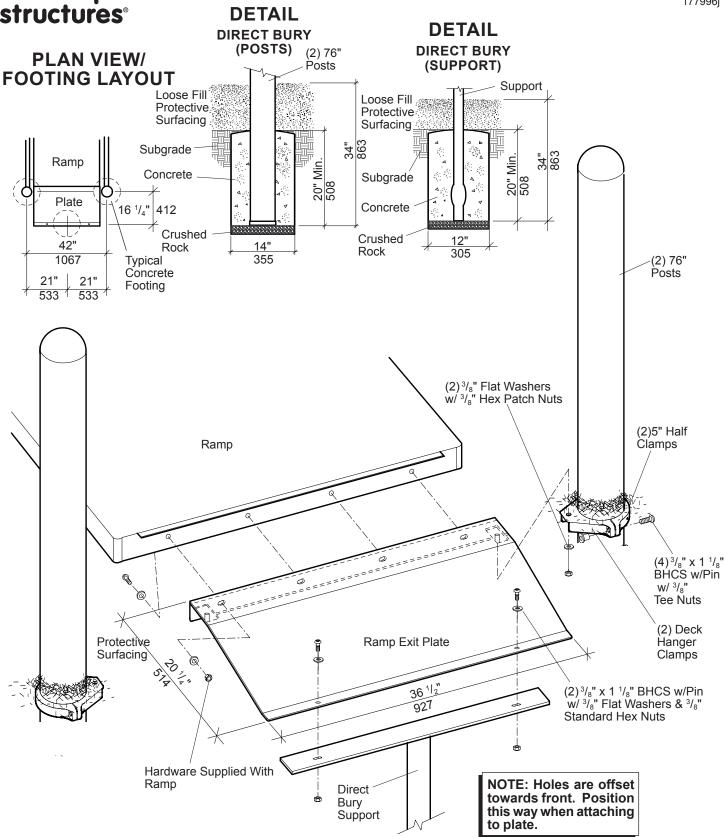




SAFETY NOTE

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

177996j





Sensory Play 177140 Sway Fun®, 12" High w/Ramp, **Guardrails & Curbs**

Parts List

Part#	Description	Qty.
177563	Ramp Exit Plate, Specify Color	
180979	Support (DB), Specify Color	
105327	5" Half Clamp, Specify Color	2
106022	Deck Hanger Clamp, Specify Color	2
107500	76" Steel PlayBooster Post, DB, Specify Color	*
107670	76" Al. PlayBooster Post, DB, Specify Color	*
107453	44" Steel PlayBooster Post, SM, Specify Color	*
107603	44" Al. PlayBooster Post, SM, Specify Color	*
121051	Ramp Exit Plate (DB) Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	6
100321	³ / ₈ " Hex Patch Nut, SST	2
100327	³ / ₈ " Standard Hex Nut, SST	
100351	³ / ₈ " Tee Nut, SST	4
100362	³ / ₈ " Flat Washer, SST	4
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
120439	Ramp Exit Plate (SM) Hardware Package	1
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	4
100321	³ / ₈ " Hex Patch Nut, SST	2
100351	³ / ₈ " Tee Nut, SST	4
100362	³ / ₈ " Flat Washer, SST	2
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
121348	4 Hole (SM) Hardware Package	2
100266	¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	8
100322	1/2" Standard Hex Nut, SST	8
100363	¹ / ₂ " Flat Washer, SST	8
129321	2-Hole (SM) Hardware Package	1
100261	¹ / ₄ " x 2" Drive Anchor	2
122039	1/4" Flat Washer, SST	2
DB = Direct Bury	Y	

SM = Surface Mount

* = Quantity Determined By Your Order

Specifications

Fabricated from $\frac{1}{4}$ " x 3" (6,35 mm x 76 mm) zinc

plated HRS plate continuously welded to 2 ³/₈" (60,32 mm) O.D. RS20 galvanized steel tubing. Finish:

ProShield®, color specified.

Posts: See PlayBooster® General Specifications.

Ramp Exit Plate:

Fabricated from 10 GA (.135") (3,42 mm) HRPO steel plate with $^3/_8$ " x 1" stainless steel mounting stud. Finish: TenderTuff®, color specified.

Deck Hanger

Clamp Assembly: Cast aluminum. Finish: ProShield, color specified.

Primary fasteners shall be socketed and pinned tam-

perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Installation Instructions

- (Direct Bury) Dig footings as shown. 1)
- Install exit plate in conjunction with ramp.
- Mark posts for the appropriate height to install clamps. Fasten deck hanger clamps to the marked position on posts using 5" half clamps and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Position ramp exit plate over deck hanger clamps and attach using ³/₈" hex patch nuts with 3/8" flat washers, as shown.
- Attach support to ramp exit plate using ³/₈" x 1 ¹/₈" BHCS w/pin with 3/8" flat washers and 3/8" standard hex nuts, as shown.
- (Direct Bury) With support and posts plumb, pour concrete footing. **NOTE:** *Do not pour concrete footings until structure is fully assembled.*

(Surface Mount) Secure ramp exit plate to surface using 1/4" x 2" drive anchors and 1/4" flat washers. **NOTE:** Do not anchor ramp exit plate to concrete until structure is fully assembled.

(Surface Mount) With posts plumb, drill 3" deep holes into concrete slab through holes in support plates, use a 1/2" masonry bit and hammer drill. Tap ¹/₂" x 2 ³/₄" expansion anchors into holes and secure using ¹/₂" standard hex nuts with 1/2" flat washers. Refer to the Surface Mount Posts Detail. NOTE: Do not anchor posts to concrete until structure is fully assembled.

- Install ¹/₄" x ⁵/₈" drive rivets in all 5" half clamps. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Install protective surfacing before users are allowed to play on the structure.





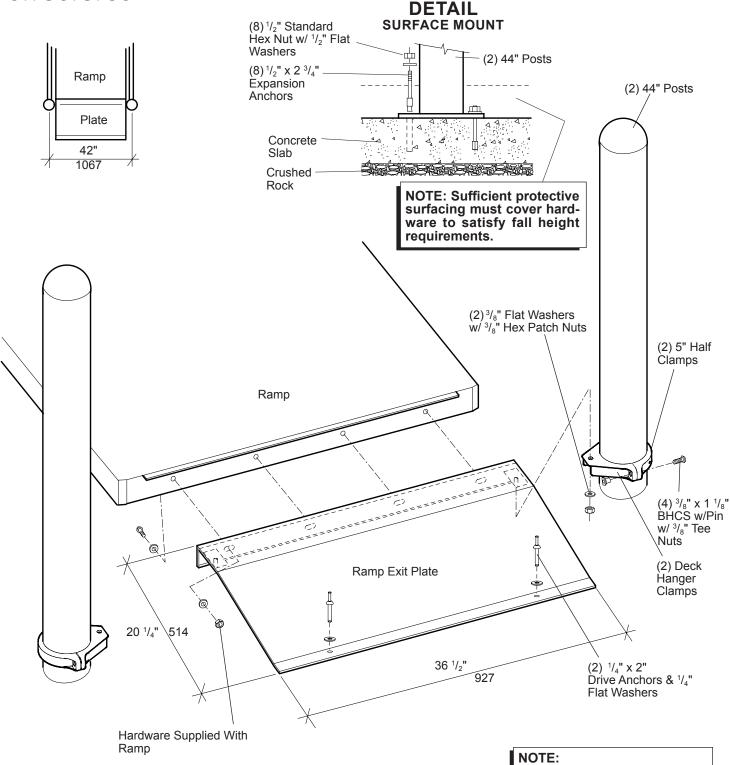


Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

Install in conjunction with ramp. Refer to Ramp w/Guard-

rails Installation Sheet.

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Sensory Play

Ramp Exit Plate, sm



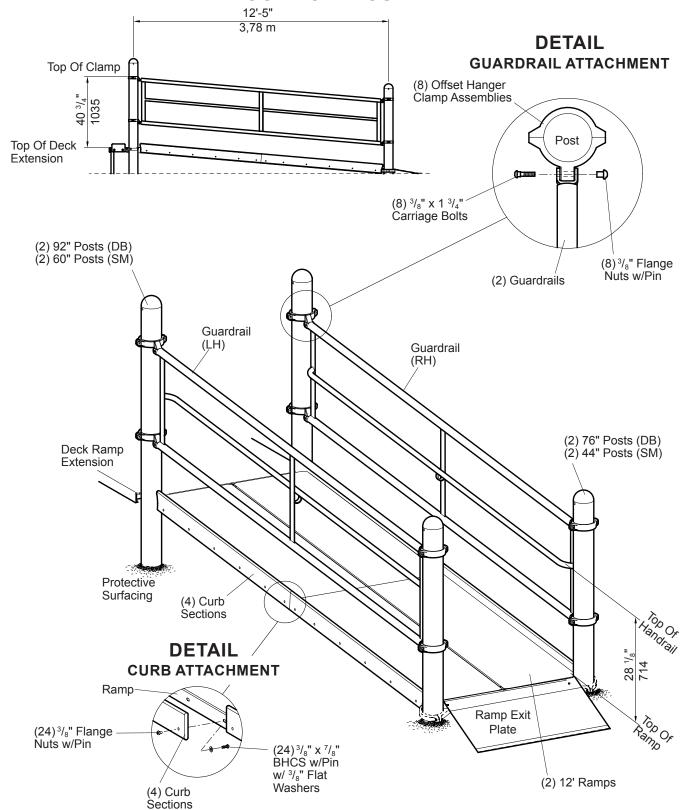




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

177996f

structures° PLAN VIEW/FOOTING LAYOUT



Sensory Play

Ramp, w/Guardrails

Sheet 10 of 11



Sensory Play 177140 Sway Fun®, 12" High w/Ramp, **Guardrails & Curbs**

Parts List

Part#	Description	Qty
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
105327	5" Half Clamp, Specify Color	
113729	5" Offset Hanger Clamp, Specify Color	
178017	12' Ramp, Specify Color	
178019	Guardrail (RH), Specify Color	
178018	Guardrail (LH), Specify Color	
174797	Curb, Specify Color	4
171409	Curb Hardware Package	1
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	24
100353	³ / ₈ " Flange Nut w/Pin, SST	24
100362	³ / ₈ " Flat Washer, SST	
159480	Barrier Hardware Package	1
100148	³ / ₈ " x 1 ³ / ₄ " Carriage Bolt, SST	
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	16
100351	³ / ₈ " Tee Nut, SST	
100353	³ / ₈ " Flange Nut w/Pin, SST	8
228066	Ramp Hardware Package	1
100198	³ / ₈ " x ¹ ¹ / ₈ " BHCS w/Pin, SST	20
100327	³ / ₈ " Standard Hex Nut, SST	8
100362	³ / ₈ " Flat Washer, SST	44
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	2
100349	³ / ₈ " Low Crown Cap Nut, SST	14
(RH) = Right Ha	nd	
(LH) = Left Hand	d	

Specifications

Guardrail: Weldment comprised of 1.315" (33,40 mm) O.D. RS20 (.080"-.090") (2,03 mm-2,29 mm) wall galvanized steel tube, 1.900" (48,26 mm) O.D. RS20 (.085" - .095") (2,16 mm-2,41 mm) wall galvanized steel tube, $^{3}/_{16}$ " (4,75 mm) HRPO flat steel, $^{1}/_{4}$ " (6,35 mm) HRPO flat steel and 1/4" (6,35 mm) HRPO flat

steel. Finish: ProShield®, color specified.

Bridge/Ramp: Weldment comprised of 12 GA (.105") (2,67 mm) sheet HRPO steel conforming to ASTM A1011, ¹/₂

(6,35 mm) HR flat steel and $^{3}/_{16}$ " (4,75 mm) (7,94 mm)mm) HR flat steel. Standing surface is perforated with ⁵/₁₆" (7,94 mm) diameter holes. Finish: TenderTuff[®],

color specified.

Curb: Permalene®, color specified.

Cast aluminum. Finish: ProShield, color specified. Clamps:

Fasteners: Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F

879 unless otherwise indicated (see specific product

installation/specifications).

Installation Instructions

- With posts, deck ramp extension and ramp exit plate in proper position, set ramps on deck ramp extension and ramp exit plate. Fasten ramps to deck ramp extension and ramp exit plate, using ³/₈" x 1 ¹/₈" BHCS w/pin with 3/8" flat washers and 3/8" standard hex nuts with 3/8" flat washers. Refer to the Ramp Attachment Details.
- Fasten ramps together. Refer to the Ramp Attachment Details.
- Attach (4) curb sections to faces of ramp in position shown, using ³/₈" x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " flange nuts w/pin. Refer to the Curb Attachment Detail.
- Fasten an offset hanger clamp to the end of each guardrail, using 3/8" x 1 3/4" carriage bolt and 3/8" flange nut w/pin. Refer to Guardrail Attachment Detail. Attach guardrails to posts at height shown, using 5" half clamps and $\frac{3}{8}$ " x 1 $\frac{1}{8}$ " BHCS w/pin with $\frac{3}{8}$ " tee nuts. Refer to the Typical Offset Hanger Clamp Spec Sheet.
- Install $\frac{1}{4}$ " x $\frac{5}{8}$ " drive rivets in all 5" half clamps. Refer to the Offset Hanger Clamp Spec Sheet.
- Install protective surfacing before users are allowed to play on the structure.

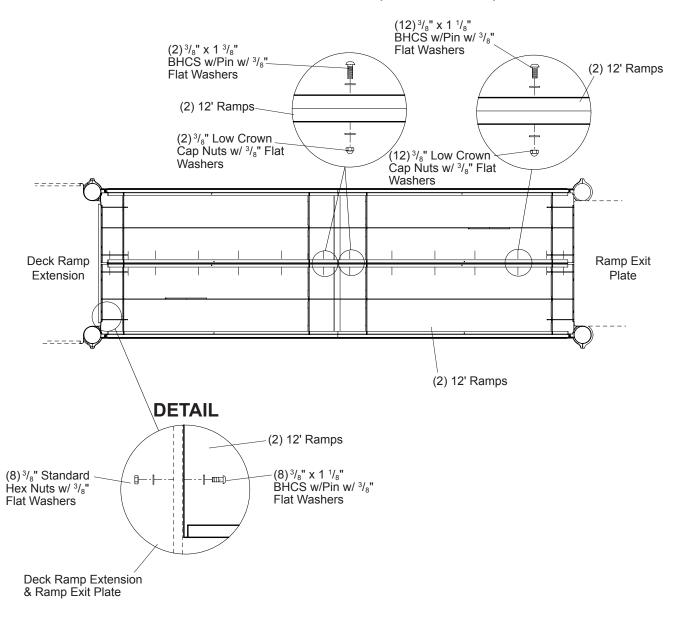






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref.

DETAIL RAMP ATTACHMENT (BOTTOM VIEW)



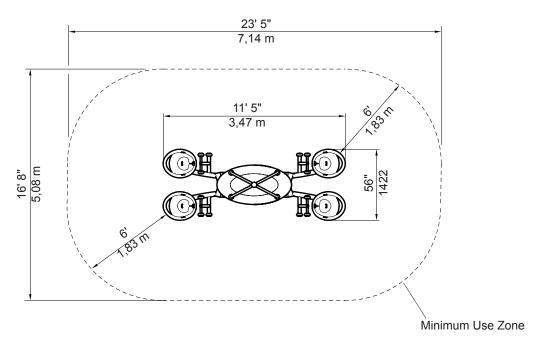


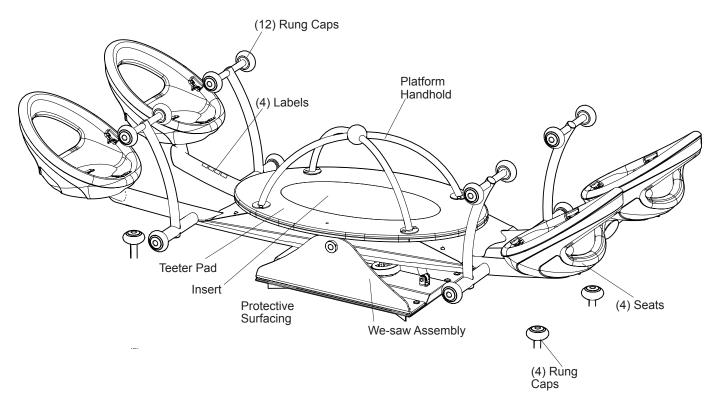




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

PLAN VIEW





Kids In Motion

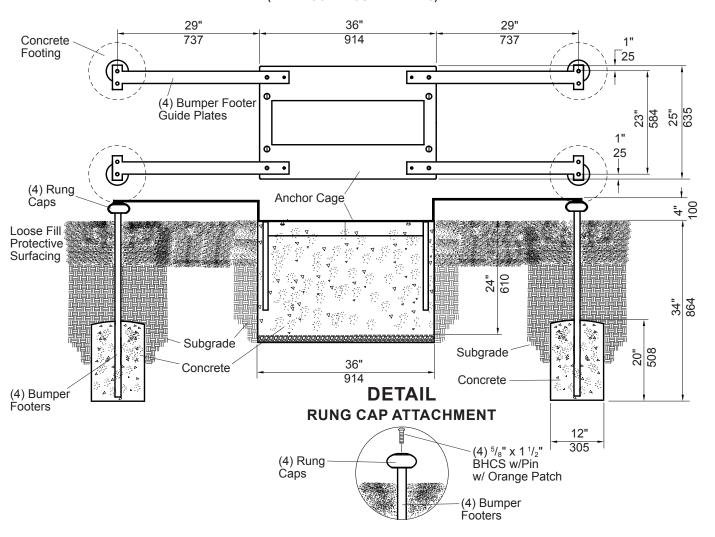
186490 We-saw[™]

Sheet 1 of 3

SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall **ISO 14001** Height of the adjacent equipment. (Ref. **DETAIL** ASTM F1487.) CERTIFIED landscape **BUMPER FOOTER** 210877a **ATTACHMENT** structures[®] (4) Footer **DETAIL Guide Plates WE-SAW ASSEMBLY** (4) ⁵/₈" x 1 ¹/₂" BHCS (4) ⁵/₈" x 3" **ATTACHMENT** w/Pin Hex Head We-saw Grey Anti-Seize **Bolts** (8) ⁵/₈" x 1 ¹/₂" BHCS w/Pin Assembly (4) $^{3}/_{8}$ " x $^{7}/_{8}$ " w/ Orange BHCS w/Pin Patch w/ 5/8" (4) Rung Grey Anti-Seize SAE Flat Caps Washers (4) Bumper Footers **Anchor Cage NOTE: Concrete footing**

DETAIL CONCRETE FOOTINGS (WITH FOOTER GUIDE PLATES)

Anchor Cage



Kids In Motion

should not be larger than outside dimensions of anchor cage. Concrete should be flush with top

of anchor cage.

186490 We-saw[™]

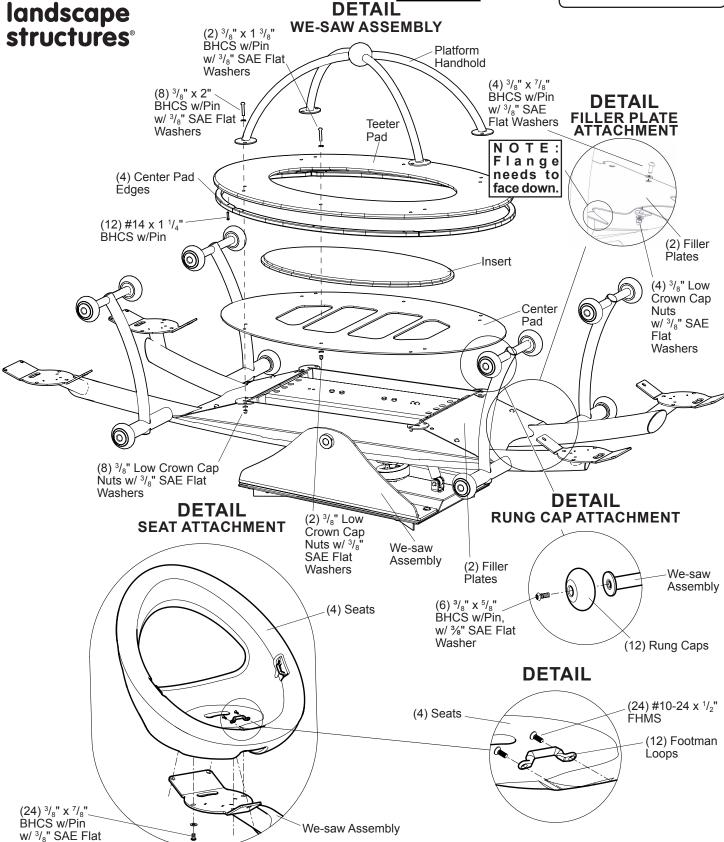
Mandscape structures





SAFETY NOTE

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)



Kids In Motion

Washers

186490 We-saw[™]

Sheet 2 of 3





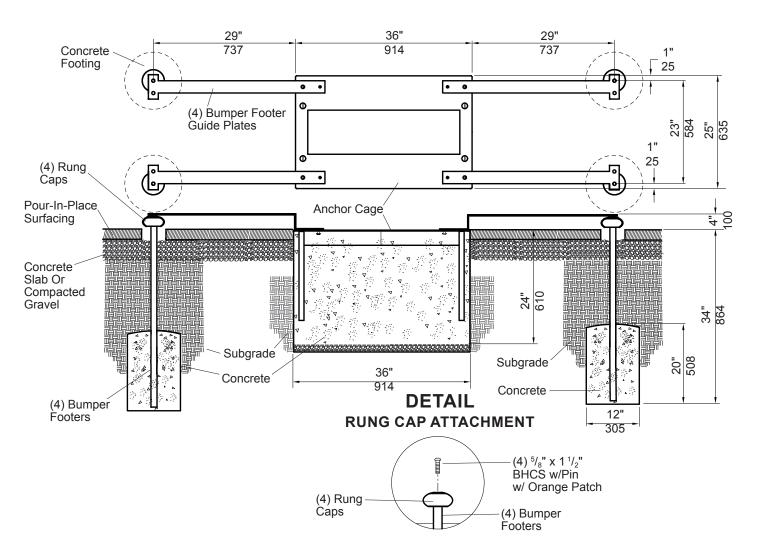


Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

210877z

DETAIL DIRECT BURY WITH POUR-IN-PLACE SURFACING

CONCRETE FOOTINGS (WITH FOOTER GUIDE PLATES)





Parts List

Part#	Description	Qtv
181123	Seat, Specify Color	4
182262	Rung Cap, Black	
182458	Platform Handhold, Specify Color	
182947	Center Pad, Specify Color	
211277	GripX Insert, Black	
183327	Teeter Pad, Specify Color	
183328	Pad Edge Long, Specify Color	
183329	Pad Edge Short, Specify Color	
183748	Filler Plate, Specify Color	
186453	Anchor Cage, Specify Color	
187231	Bumper Footer, Specify Color	4
188068	We-saw Assembly, Specify Color	1
186951	Footer Guide Plate, Specify Color	4
249513	We-saw Hardware Package	1
100173	³ / ₈ " x 2" BHCS w/Pin, SST	8
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	
100201	⁵ / ₈ " x 1 ¹ / ₂ " BHCS w/Pin, SST-Patch	12
100365	3/8" SAE Flat Washer, SST	64
129500	5/8" SAE Flat Washer, SST	8
129672	#14 x 1 ¹ / ₄ " TORX BHCS, SST	12
207709	Footman Loop, SST	12
162462	#10-24 x ¹ / ₂ " FHMS	24
115176	ASTM Hard Surface Warning Label	1
156846	Play Safe Label, 2-12 Years	1
182212	Entanglement Warning Label	1
182213	Hot Surface Warning Label	1
100349	3/8" Low Crown Cap Nut, SST	14
127463	Bit Hex TPP T-27 Torx	1
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	2
100195	³ / ₈ " x ⁵ / ₈ " BHCS w/Pin, SST	12
188123	Bumper Guide Plate Hardware Package	1
127546	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	4
127551	⁵ / ₈ " x 1 ¹ / ₂ " BHCS w/Pin, SST	4
188124	5/o" x 3" Hex Can Screw ZP	4

Specifications

We-saw Assembly:

(Arm Assembly) Weldment comprised of 3.500' (88,9 mm) O.D. x 8 GA. (.162") (4,11 mm) wall galvanized steel tubing, 2.375" (60,33) O.D. RS40 (.130"-.140") (3,30 mm-3,56 mm) wall galvanized steel tubing, 1.900" (48,26 mm) O.D. RS40 (.120"-130") (3,05 mm-3,30 mm) wall galvanized steel tubing, .375" (9,52 mm) thick HRPO steel plate and .250" (6,35 mm) stainless steel plate. Finish: Proshield®, specify color. (**Rocker Assembly**) Weldment comprised .250" (6,35 mm) HRPO steel plate and 2" (50 mm) x ⁵/₁₆" (7,93 mm) wall steel tubing. Finish: ProShield, specify color. (Base) Weldment comprised .375" (9,53 mm) HRPO steel plate and 2.500" (63,50 mm) O.D. x 1.150" (29,21 mm) I.D. stainless steel tubing. Finish: ProShield, color specified. (Base Plate) Fabricated from .250" (6,35 mm) HRPO steel plate. Finish: ProShield, specify color. (**Spring**) 5 ⁵/₈" (142,87 mm) diameter ¹³/₁₆" (20,62 mm) tempered alloy steel coil. Finish: ProShield, specify color. (Spring Wedge) Cast from ductile iron alloy. Finish: ProShield, specify color. (Bearings) 1.145" (29,08 mm) I.D. oilite bronze. (Shaft) 1.14" (28,96 mm) O.D. stainless steel. (Cylinder) Chrome plated steel.

Kids In Motion 186490 We-saw™

Fabricated from 5052 Sheet Aluminum. Finish: Filler Plate:

ProShield, color specified.

GripX Insert: $\frac{3}{4}$ " (19,05 mm) Thick Permalene[®], black in color.

Teeter Pad & Edges: Permalene®, color specified.

Platform Handhold: Weldment comprised of 1.315" (33,4 mm) O.D. RS20

(.080"-.090") (2,03 mm - 2,28 mm) wall galvanized steel tubing, 10 GA (.135") (3, 42 mm) HRPO steel sheet and 7 GA. (.179") (4,54 mm) HRPO steel sheet.

Finish: Proshield®, color specified.

Weldment comprised of 1.029" (26,13 mm) O.D. **Anchor Cage:**

RS20 (.070"-.080") (1,77 mm - 2,03 mm) wall galvanized steel tubing with 203 or 303 stainless steel welded inserts with $\frac{5}{8}$ " internal threads and 7 GA. (.179") (4,54 mm) HRPO steel sheet. Finish:

Proshield®, specify color.

Rung Cap: Molded from U.V. stabilized black EPDM rubber

encapsulating .250" (6,35 mm) thick aluminum sheet and .125" (3,18 mm) thick aluminum plate.

Center Pad: Fabricated from .250" (6,35 mm) thick HRPO steel

sheet plate. Finish: Proshield®, specify color.

Weldment comprised of 1.315" (33,40 mm) O.D. **Bumper Footer:**

RS20 (.080"-.090") (2,03 mm - 2,29 mm) wall galvanized steel tubing with 203 or 303 stainless steel welded inserts with $^{5}/_{8}$ " internal threads and .250" (6,35 mm) thick stainless steel plate. Finish:

Proshield®, color specified.

Rotationally molded from U.V. stabilized linear low Seat:

density polyethylene, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tam-

perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Approx. 16 man hours 54" (1,37 m) **Installation Time:**

Fall Height: Min. Use Zone: 6' (1,83 m)

Area Required: 16' 8" x 23' 5" (5,08 m x 7,14 m)

Concrete Req.: Approx. 17.82 cu. ft.

Weight: 783 lbs.

Kids In Motion 186490 We-saw™



Installation Instructions

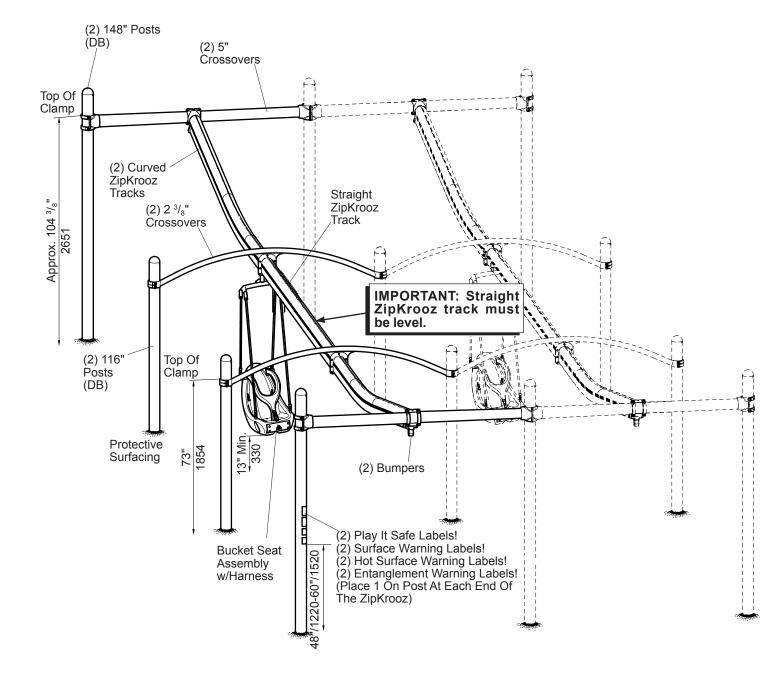
- (Direct Bury) Dig footing holes for anchor cage and bumper footers. Build a form for anchor cage concrete footing. Concrete footing for anchor cage should not be larger than outside dimensions of anchor cage. Refer to Concrete Footing Details.
- 2) Attach rung caps and bumper footers to bumper footer guide plates using ⁵/₈" x 3" hex head bolts. Refer to the Bumper Footer Attachment Detail.
- Attach bumper footer guide plates to anchor cage using ⁵/₈" x 1 ¹/₂" BHCS w/pin and ³/₈" x ⁷/₈" BHCS w/pin. Refer to the Bumper Footer Attachment Detail.
- 4) Place anchor cage and bumper footers in footing holes, as shown. Top of anchor cage should be flush with finished grade. With anchor cage level and bumper footers plumb, pour concrete. Concrete should be flush with top of anchor cage. Allow concrete footing to cure for a minimum of 72 hours before continuing. Refer to the Concrete Footing Details.
- 5) Remove footer guide plates from anchor cage and bumper footers. Discard bumper guard plates and hardware. Attach rung caps to bumper footers using 5/8" x 1 1/2" BHCS w/pin. Refer to the Rung Cap Attachment Detail.
- 6) Set We-saw assembly onto anchor cage. Line up holes in We-saw assembly bottom plate with threaded inserts in anchor cage. Attach We-saw assembly to anchor cage using ⁵/₈" x 1 ¹/₂" BHCS w/pin with ⁵/₈" SAE flat washers. Refer to the We-saw Assembly Attachment Detail.
- 7) Attach filler plates to We-saw assembly using #3/8 x 7/8" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" low crown cap nuts with ³/₈" SAE flat washers. Refer to the Filler Plate Attachment Detail. Make sure flanges on filler plates are pointing downwards.
- Attach center pad edges to teeter pad, using #14 x 1 ¹/₄" BHCS w/pin. Refer to the We-saw Assembly Detail.
- 9) Attach platform handhold, teeter pad, insert and center pad to We-saw assembly attachment plates, using ³/₈" x 2" BHCS w/pin with ³/₈" SAE flat washers and ³/₈" low crown cap nuts with ³/₈" SAE flat washers. Refer to the We-saw Assembly Detail.
- 10) Attach teeter pad to center pad using $^3/_8$ " x 1 $^3/_8$ " BHCS w/pin with $^3/_8$ " SAE flat washers and $^3/_8$ " low crown cap nuts with $^3/_8$ " SAE flat washers. Refer to the We-saw Assembly Detail.
- Attach rung caps to We-saw assembly using ⁵/₈" x 1 ¹/₂" BHCS w/pin. Refer to the Rung Cap Attachment Detail.
- 12) Attach seats to We-saw assembly using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " SAE flat washers. Refer to the Seat Attachment Detail.
- 13) Attach footman loops, using #10-24 x $^{1}/_{2}$ " flat head screws, as shown. Footman loops are used for seat belts (not included).
- 14) Apply Play Safe and warning labels, as shown.
- 15) Install protective surfacing before users are allowed to play on the structure.







Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)





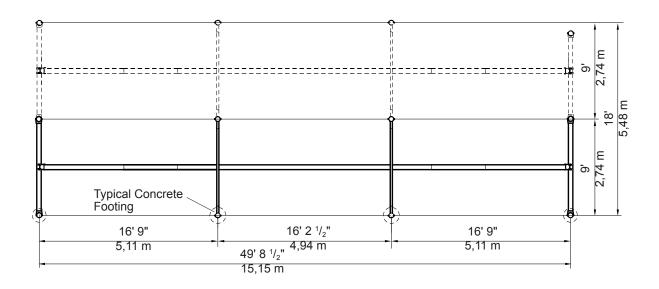




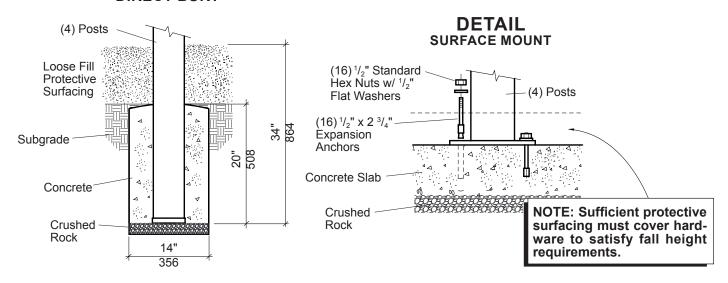
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

196663a

PLAN VIEW/FOOTING LAYOUT



DETAILDIRECT BURY



Kids In Motion 196213 ZipKrooz®, Assisted, Additional Bay, 50 Ft.



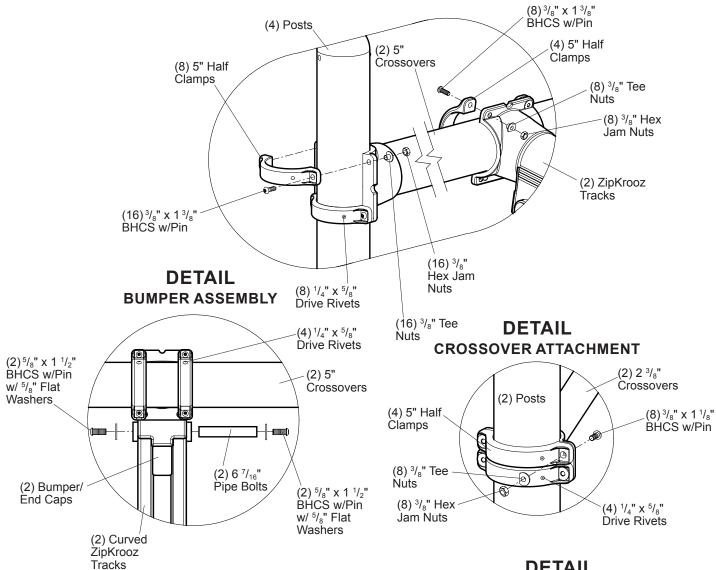




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

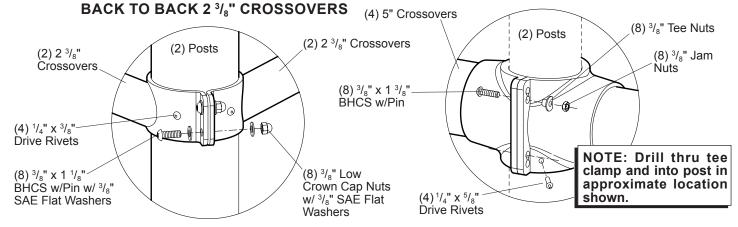
205030b

DETAIL TRACK ATTACHMENT



DETAIL

DETAILBACK TO BACK TEE CLAMPS



Kids In Motion 196213 ZipKrooz®, Assisted, Additional Bay, 50 Ft. 601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185



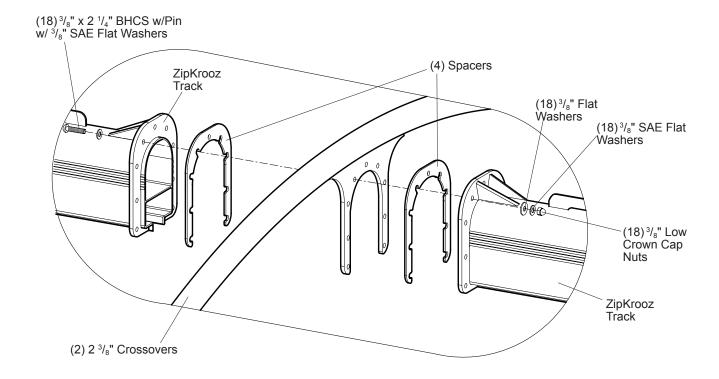




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

205030a

DETAILTRACK ASSEMBLY





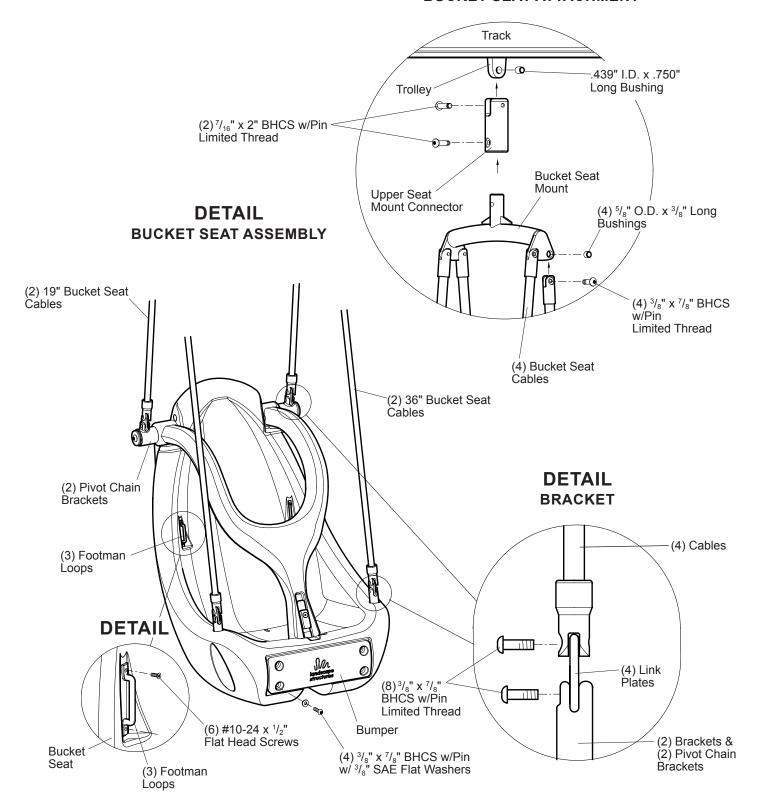




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

205884b

DETAILBUCKET SEAT ATTACHMENT



Kids In Motion 196213 ZipKrooz®, Assisted, Additional Bay, 50 Ft. Sheet 3 of 4
601 7TH STREET SOUTH, DELANO, MINNESOTA 55328-8605 888-574-4678 LSI Install Help 888-438-6574 LSI Direct 763-972-5200 Int. FAX (763) 972-3185

Parts List

Part#	Description	Qty
100610	1/4" x 5/8" Drive Rivety, AL/SST	12
105327	5" Half Clamp, Specify Color	
199896	Crossover Beam, Specify Color	
107470	84" Steel Post w/Cap, SM, Specify Color	
198216	116" Steel Post w/Cap, SM, Specify Color	
107520	116" Steel Post w/Cap, DB, Specify Color	
198214 107623	148" Steel Post w/Cap, DB, Specify Color 84" Aluminum Post w/Cap, SM, Specify Color	
198217	116" Aluminum Post w/Cap, SM, Specify Color	
107694	116" Aluminum Post w/Cap, DB, Specify Color	
198215	148" Aluminum Post w/Cap, DB, Specify Color	
142136	Bumper, Black	
182025	Bucket Seat Assembly w/Harness, Specify Color	1
205138	2 ³ / ₈ " Crossover, Specify Color	
205042	Curved ZipKrooz Track, Specify Color	
205043	Straight ZipKrooz Track, Specify Color	
205855	Upper Seat Mount Connector, Aluminum	
205861	Bucket Seat Mount, Specify Color	
196328	36" Bucket Seat Cable, Black	
196329 229287	19" Bucket Seat Cable, BlackZipKrooz Trolley Assembly, Black	
205192	Spacer, Aluminum	1 /
206172	ZipKrooz 50 Ft. Hardware Package	
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	24
100201	⁵ / ₈ " x 1 ¹ / ₂ " BHCS w/Pin, SST	
100349	³ / ₈ " Low Crown Cap Nut, SST	
100351	³ / ₈ " Tee Nut, SST	40
100365	³ / ₈ " SAE Flat Washer, SST	
100362	³ / ₈ " Flat Washer, SST	
100366	⁵ / ₈ " Flat Washer, SST	
100199	³ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	
121105	6 ⁷ / ₁₆ " Aluminum Pipe Bolt	
115176 156847	ASTM HD Surface Warning Label	
182212	Entanglement Warning Label	
182213	Hot Surface Warning Label	2
128296	³ / ₈ " Hex Jam Nut, SST	
196735	Back To Back Steel Clamp Hardware Package	
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	8
100349	³ / ₈ " Low Crown Cap Nut, SST	
100365	³ / ₈ " SAE Flat Washer, SST	
100611	¹ / ₄ " x ³ / ₈ " Drive Rivet, AL/SST	4
208041	Assisted Bucket Seat w/Yoke Hdw. Package	
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	4
100290 100365	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST ³ / ₈ " SAE Flat Washer, SST	12
106035	Seat Mounting Bracket	
127179	5/8" O.D. x 3/8" Long Bushing, SST	4
207709	Footman Loop, SST	
162462	#10-24 x ¹ / ₂ " Flat Head Screw, SST	6
196321	⁵ / ₁₆ " x 1" x 2 ¹ / ₂ " Link Plates, SST	4
157704	⁷ / ₁₆ " x 2" BHCS w/Pin Limited Thread, SST	2
203702	.439" I.D. x .750" Long Bushing, SST	1
196733	Back To Back Double Tee Clamp Hdw. Pkg	
100351	³ / ₈ " Tee Nut, SST	8
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	
128296	³ / ₈ " Hex Jam Nut, SST	
121348	4-Hole (SM) Hardware Package	
100266 100322	¹ / ₂ " x 2 ³ / ₄ " Expansion Anchor	
100322	¹ / ₂ " Flat Washer, SST	
DB = Direct Bur	=	10
SM = Surface M	•	

Specifications

Track: Extruded from 6005-T4 aluminum alloy. Finish:

ProShield®, color specified.

Bumper: Urethane, black in color.

Spacer: .190"(4,82 mm) Thick aluminum sheet.

Bucket Seat Assy.: (Bucket Seat & Yoke) Rotationally molded from

U.V. stabilized linear low density polyethylene, color specified. (**Pipebolt**) Made from 1.125" (28,58 mm) O.D. 6005-T5 threaded annodized aluminum tube. (**Bearings**) UHMW PE lubricated. (**Brackets**) Made

from 356-T6 aluminum.

Posts: See PlayBooster® (PB) General Specifications.

Bucket Seat Mount: Weldment comprised of 1.42" (36,06 mm) diameter

stainless steel, 1.660" (42,16 mm) O.D. RS20 (.085"-.095") (2,16 mm-2,41 mm) wall galvanized steel tubing, $^{3}/_{8}$ " (9,53 mm) thick HRPO steel plate and $^{1}/_{4}$ " (6,35 mm) HRPO steel plate. Finish: ProShield®,

color specified.

Seat

Mounting Bracket: Cast from 535 aluminum magnesium.

Bucket

Seat Bumper: Molded from U.V. stabilized black EPDM rubber

encapsulating 11 GA (.120") (3,05 mm) HRPO steel

sheet

Trolley Assy.: Steel body with urethane rollers. Completely assem-

bled. Steel Body Finish: ProShield®, black in color.

ZipKrooz

Crossover: Weldment comprised of 2.375" (60,33 mm) O.D.

RS40 (.130"-.140") (3,30 mm-3,55 mm) wall galvanized steel tubing, $\frac{3}{8}$ " (9,52 mm) thick HRPO steel plate and $\frac{1}{4}$ " (6,35 mm) thick HRPO steel. Finish:

ProShield®, color specified.

Crossover: Weldment comprised of tee clamps and a 5" (127

mm) O.D. extruded 6005-T5 aluminum alloy tube with a .125" (3,17 mm) wall Finish: ProShield, color

specified.

Cable Assembly: (Cable) Made of tightly woven polyester-wrapped,

six-stranded galvanized-steel cable with a polypropylene core. (Cable Connectors) 6063-T6 alumi-

num

Clamp: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tam-

perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Installation Time: (DB) Approx. 12 man hours

(SM) Approx. 11 man hours

Min. Area Req.: 62' 2" x 9' (18,95 m x 2,74 m)

Concrete: (DB) Approx. 7.13 cu. ft.

Weight: (DB) 1435 lbs. Steel

(DB) 1079 lbs. Aluminum **(SM)** 1291 lbs. Steel

(SM) 1043 lbs. Aluminum

Max. Fall Height: 105" (2,67 m)

M landscape structures

Kids In Motion 196213 ZipKrooz[®], Assisted, Additional Bay, 50 Ft.

Installation Instructions

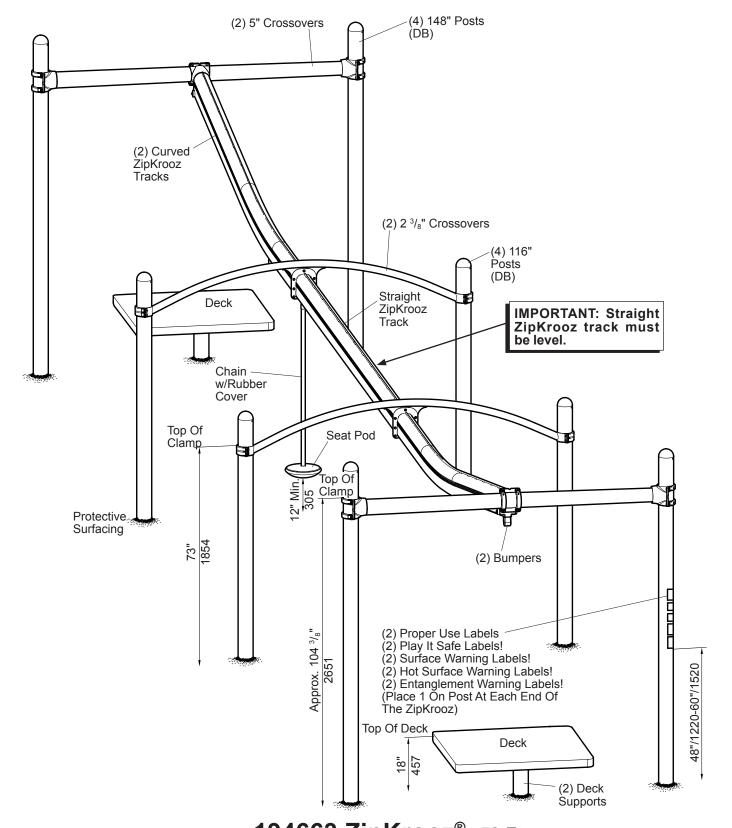
- (Direct Bury) Dig footings as shown. Refer to the Plan View Footing Layout.
- Attach 5" crossover beams to posts at height shown. Refer to the Beam Attachment Detail.
- 3) Attach back to back crossovers to posts using 1 ³/₈" BHCS w/pin and ³/₈" tee nuts with ³/₈" jam nuts. Refer to the Back to Back Tee Clamp Detail.
- Attach 2 ³/₈" crossover beams to posts at height shown. Refer to the Beam Attachment Detail.
- 5) Attach 2 $\frac{3}{8}$ " crossover beam to 2 $\frac{3}{8}$ " crossover beam. Refer to the Back To Back 2 $\frac{3}{8}$ " Crossovers Detail.
- 6) Attach the ZipKrooz tracks to the center of the crossover beams. Refer to the Track Attachment Detail.
- Attach the ZipKrooz tracks to 2 ³/₈" crossover beam. Refer to the Track Assembly Detail. IMPORTANT: Straight section of ZipKrooz tracks must be level.
- 8) Insert trolley assembly, then bumpers into track ends. Line up hole in bumper with collars on track and insert pipe bolt. Fasten with ⁵/₈" x 1 ¹/₂" BHCS w/pin and ⁵/₈" flat washers. Refer to the Bumper Detail.
- 9) (Direct Bury) With posts plumb and decks level, pour concrete footings. Refer to the Direct Bury Detail. NOTE: Allow concrete to cure for 72 hours before attaching cable with pod to trolley.
 - (Surface Mount) Drill $^{1}/_{2}$ " x 3" deep holes through post plates using hammer drill and $^{1}/_{2}$ " masonry bit. Tap expansion anchors into drilled holes. Fasten 5" posts to expansion anchors using $^{1}/_{2}$ " standard hex nuts with $^{1}/_{2}$ " flat washers.
- Attach upper seat mount connector and bucket seat mount to trolley.
 Refer to the Bucket Seat Attachment Detail.
- Insert seat mounting brackets into molded-in holes in front of bucket seat. Refer to Bucket Seat Assembly Details.
- 12) Attach ends of cables to pivot brackets and seat mounting brackets. Refer to Bucket Seat Assembly Details.
- Attach cables to bucket seat mount. Refer to the Bucket Seat Attachment Detail.
- 14) Attach footman loops to bucket seat. Refer to the Bucket Seat Assembly Detail. NOTE: Footman loops are used for seat belts (not included).
- 15) Attach bumper to front of bucket seat. Refer to the Bucket Seat Assembly Details.
- 16) Install ¹/₄" x ⁵/₈" drive rivets in all half clamps and tee clamps. Refer to the Typical Tee Clamp Spec Sheet.
- 17) (Back To Back 2 ³/₈" Crossovers) Drill through 2 ³/₈" crossover clamps and into 5" post with a ¹/₄" or "F" (only) drill bit, insert ¹/₄" x ³/₈" drive rivets into holes through clamps and into post. Hammer drive rivet pins in until flush with head. Refer to the Back To Back 2 ³/₈" Crossovers Detail.
- 18) Apply Labels, as shown.
- Install protective surfacing before users are allowed to play on the component.







SAFETY NOTE Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)





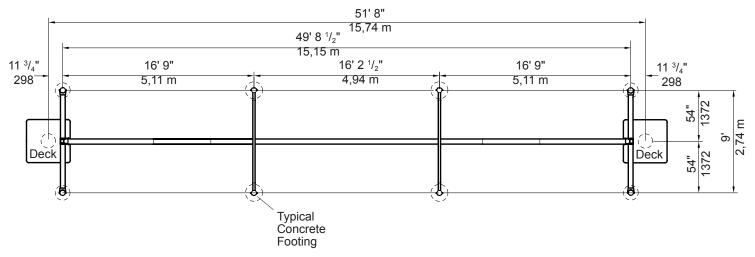




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

194666b

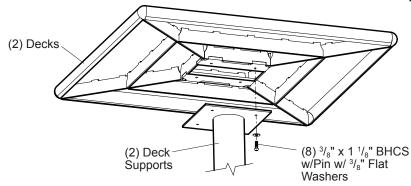
PLAN VIEW/FOOTING LAYOUT



DETAIL DIRECT BURY (8) Posts & (2) Supports **DETAIL** Loose Fill **SURFACE MOUNT** Protective Surfacing (40) 1/2" Standard (8) Posts & Hex Nuts w/ 1/2 34" (2) Supports Flat Washers Subgrade $(40)^{1}/_{2}$ " x 2 $^{3}/_{4}$ " 20" 508 Expansion Anchors Concrete Concrete Slab Crushed Crushed 14 Rock Rock 356

DETAIL
DECK SUPPORT ATTACHMENT

NOTE: Sufficient protective surfacing must cover hardware to satisfy fall height requirements.



Kids In Motion

194663 ZipKrooz[®], 50 Ft.

landscape structures TRACK ATTACHMENT



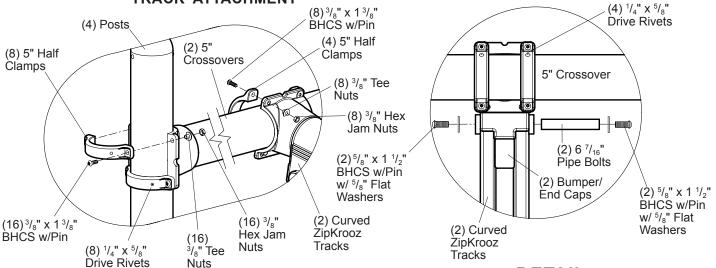


_ SAFETY NOTE

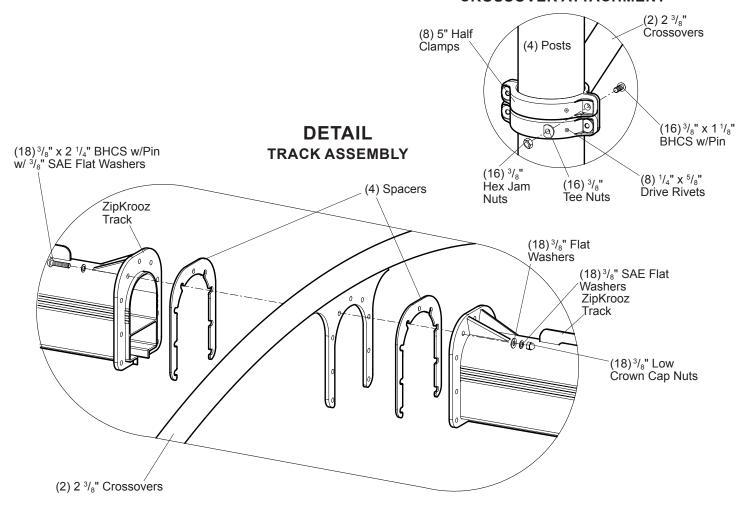
Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

DETAIL 205024a

BUMPER ASSEMBLY



DETAILCROSSOVER ATTACHMENT



Kids In Motion

194663 ZipKrooz[®], 50 Ft.



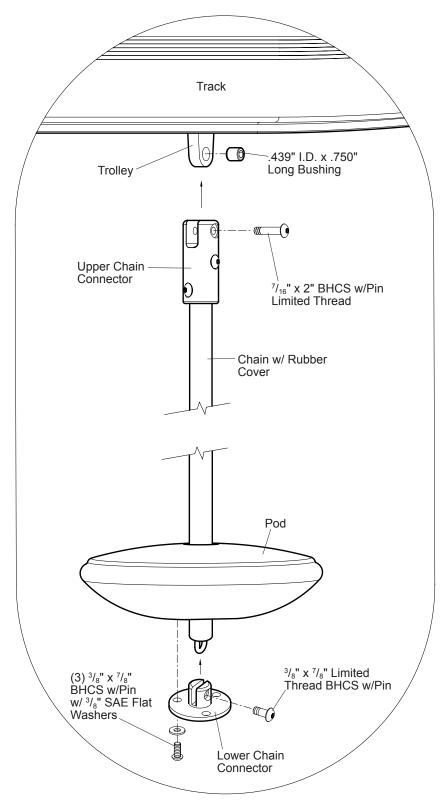




Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

194665b

DETAILTROLLEY ASSEMBLY



Kids In Motion

194663 ZipKrooz®, 50 Ft.

Kids In Motion 194663 ZipKrooz®, 50 Ft.



Part#	Description	Qty
100610	¹ / ₄ " x ⁵ / ₈ " Drive Rivet, AL/SST	20
105327	5" Half Clamp, Specify Color	20
199896	Crossover Beam, Specify Color	2
107470	84" Steel Post w/Cap, SM, Specify Color	4
198216	116" Steel Post w/Cap, SM, Specify Color	4
107520	116" Steel Post w/Cap, DB, Specify Color	4
198214	148" Steel Post w/Cap, DB, Specify Color	4
107623	84" Aluminum Post w/Cap, SM, Specify Color	
198217	116" Aluminum Post w/Cap, SM, Specify Color	
107694	116" Aluminum Post w/Cap, DB, Specify Color	
198215	148" Aluminum Post w/Cap, DB, Specify Color	
142136	Bumper, Black	
199792	Deck, Specify Color	
154460	Evos Climb Across Pod, Specify Color	
205138	2 ³ / ₈ " Crossover, Specify Color	
205042	Curved ZipKrooz Track, Specify Color	
205043	Straight ZipKrooz Track, Specify Color	1
195731	Lower Chain Connector, Aluminum, Black	
229287	ZipKrooz Trolley Assembly, Black	
196442	Chain w/Rubber Cover	
199899	Deck Support 18" Deck, DB, Specify Color	
199900	Deck Support 18" Deck, SM, Specify Color	2
205192	Spacer, Aluminum	
199927	Deck Support Hardware Package	
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	8
100362	³ / ₈ " Flat Washer, SST	
206172	ZipKrooz 50 Ft. Hardware Package	
100198	³ / ₈ " x 1 ¹ / ₈ " BHCS w/Pin, SST	
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	
100201	⁵ / ₈ " x 1 ¹ / ₂ " BHCS w/Pin, SST	
100349	³ / ₈ " Low Crown Cap Nut, SST	
100351	³ / ₈ " Tee Nut, SST	
100365	³ / ₈ " SAE Flat Washer, SST	
100362	³ / ₈ " Flat Washer, SST	
100366	5/8" Flat Washer, SST	
100199	³ / ₈ " x 2 ¹ / ₄ " BHCS w/Pin, SST	
121105	6 ⁷ / ₁₆ " Aluminum Pipe Bolt	
197123	Proper Use Label.	
115176	ASTM HD Surface Warning Label	
156847	Play Safe Label, 5-12 YRS	
182212	Entanglement Warning Label	
128296	³ / ₈ " Hex Jam Nut, SST	
196651	ZipKrooz Pod Seat Hardware Package	
100196	3/8" x 7/8" BHCS w/Pin, SST	
100290	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin Limited Thread, SST	_
100365	³ / ₈ " SAE Flat Washer, SST	
157704	7/ ₁₆ " x 2" BHCS w/Pin Limited Thread, SST	I
203702	.439" I.D. x .750" Long Bushing, SST	
121348	4-Hole (SM) Hardware Package	
100266	1/2" x 2 3/4" Expansion Anchor	
100322	¹ / ₂ " Standard Hex Nut, SST	
100363	£ /	40
DB = Direct Bury SM = Surface Mo		

Specifications

Track: Extruded from 6005-T4 aluminum alloy. Finish:

ProShield®, color specified.

Bumper: Urethane, black in color.

Spacer: .190"(4,82 mm) Thick aluminum sheet.

Deck Support: Weldment comprised of 5" (127 mm) O.D. x 7 GA.

(.179") (4,54 mm) wall galvanized steel tube, and ¹/₂" (12,7 mm) HRPO steel plate. Finish: ProShield®,

color specified.

Posts: See PlayBooster®(PB) General Specifications.

Pod: Rotationally molded from U.V. stabilized linear low

density polyethylene, color specified.

Deck: Flange formed from 12 GA (.105") (2,66 mm) sheet

steel conforming to ASTM A1011, $^{1}/_{4}$ " (6,35 mm) HRPO flat steel and $^{3}/_{8}$ " (9,53 mm) HRPO flat steel. Standing surface is perforated with $^{5}/_{16}$ " (7,94 mm) diameter holes. The finished size measures 2 $^{1}/_{8}$ " x 38 $^{1}/_{2}$ " x 38 $^{1}/_{2}$ " (53,98 mm x 977 mm x 977 mm).

Finish: TenderTuffTM, color specified.

Trolley Assy.: Steel body with urethane rollers. Completely assem-

bled. Steel Body Finish: ProShield®, black in color.

ZipKrooz

Crossover: Weldment comprised of 2.375" (60,33 mm) O.D.

RS40 (.130"-.140") (3,30 mm-3,55 mm) wall galvanized steel tubing, $\frac{3}{8}$ " (9,52 mm) thick HRPO steel plate and $\frac{1}{4}$ " (6,35 mm) thick HRPO steel. Finish:

ProShield®, color specified.

Crossover: Weldment comprised of tee clamps and a 5" (127

mm) O.D. extruded 6005-T5 aluminum alloy tube with a .125" (3,17 mm) wall Finish: ProShield, color

specified.

Chain w/

Rubber Cover: (Chain) Steel ¹/₄" (6,35 mm) straight link chain, 3,150

lbs. (1428,82 kilograms) working load limit. Finish: ProGuard. (Cover) High pressure Buna-N Rubber hose, black in color. (Connector) Aluminum.

Clamp: Cast aluminum. Finish: ProShield, color specified.

Fasteners: Primary fasteners shall be socketed and pinned tam-

perproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product

installation/specifications).

Installation Time: (DB) Approx. 14 man hours

(SM) Approx. 13 man hours

Min. Area Req.: 66' 10" x 21' 5" (20,37 m x 6,52 m)

Concrete: (DB) Approx. 17.82 cu. ft.

Weight: (DB) 1463 lbs. Steel

(DB) 1023 lbs. Aluminum

(SM) 1319 lbs. Steel (SM) 987 lbs. Aluminum

Max. Fall Height: 105" (2,67 m)

Sheet 3 of 3

Kids In Motion 194663 ZipKrooz[®], 50 Ft.



Installation Instructions

- (Direct Bury) Dig footings as shown. Refer to the Plan View Footing Layout.
- Attach support posts to decks, using ³/₈" x 1 ¹/₈" BHCS w/pin & ³/₈" flat washers. Refer to the Deck Support Attachment Detail.
- Attach 5" crossover beams to posts at height shown. Refer to the Beam Attachment Detail.
- 4) Attach 2 ³/₈" crossover beams to posts at height shown. Refer to the Beam Attachment Detail.
- Attach the ZipKrooz tracks to the center of the crossover beams. Refer to the Track Attachment Detail.
- Attach the ZipKrooz tracks to 2 ³/₈" crossover beam. Refer to the Track Assembly Detail. IMPORTANT: Straight ZipKrooz track must be level.
- 7) Insert trolley assembly, then bumpers into track ends. Line up hole in bumper with collars on track and insert pipe bolt. Fasten with 5/8" x 1 1/2" BHCS w/pin and 5/8" flat washers. Refer to the Bumper Detail.
- 8) (Direct Bury) With posts plumb and decks level, pour concrete footings. Refer to the Direct Bury Detail. NOTE: Allow concrete to cure for 72 hours before attaching cable with pod to trolley.
 - (Surface Mount) Drill $^{1}/_{2}$ " x 3" deep holes through post plates using hammer drill and $^{1}/_{2}$ " masonry bit. Tap expansion anchors into drilled holes. Fasten 5" posts to expansion anchors using $^{1}/_{2}$ " standard hex nuts with $^{1}/_{2}$ " flat washers.
- Attach chain w/rubber cover to trolley. Refer to the Trolley Assembly Detail.
- 10) Attach pod to chain w/rubber cover. Refer to the Pod Attachment Detail.
- 11) Install ¹/₄" x ⁵/₈" drive rivets in all 5" half clamps. Refer to the Typical Tee Clamp Spec Sheet.
- 12) Apply Labels, as shown.
- 13) Install protective surfacing before users are allowed to play on the component.

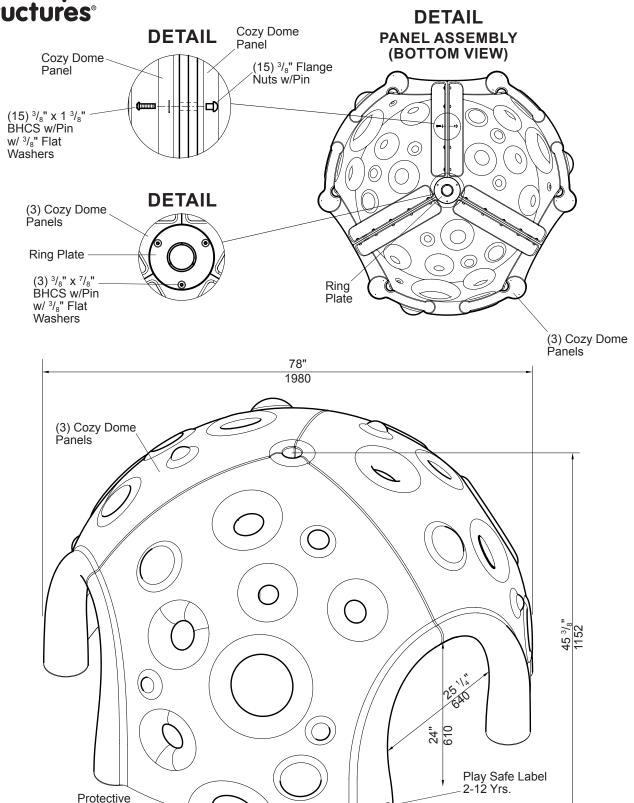






Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

18383900



Sensory Play

168099 Cozy Dome®

Sheet 1 of 2

Warning Label

Surfacing

Iandscape

Sensory Play 168099 Cozy Dome®

Parts List

Part#	Description	Qty
167519	Cozy Dome Panel, Specify Color	3
167705	Ring Plate, Specify Color	
167706	Direct Bury Plate, Specify Color	
169488	Mount Plate, (SM), Specify Color	6
169478	1 ¹ / ₈ " O.D. x 1 ³ / ₈ " Long Spacer Tube, AL	12
183888	Cozy Dome Hardware Package for DB	1
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	
100353	³ / ₈ " Flange Nut w/Pin, SST	
100362	³ / ₈ " Flat Washer, SST	30
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	15
156846	Play Safe Label 2-12 Yrs	1
183064	Warning Label	1
240643	Cozy Dome Hardware Package for SM	1
100196	³ / ₈ " x ⁷ / ₈ " BHCS w/Pin, SST	
100263	³ / ₈ " x 2 ³ / ₄ " Expansion Anchor	6
100327	³ / ₈ " Standard Hex Nut, SST	6
100353	³ / ₈ " Flange Nut w/Pin, SST	15
100362	³ / ₈ " Flat Washer, SST	24
113027	³ / ₈ " x 1 ³ / ₈ " BHCS w/Pin, SST	15
116695	³ / ₈ " x 2" FHCS, SST	12
156846	Play Safe Label 2-12 Yrs.	
183064	Warning Label	
DR = Direct Rury		

Specifications

Concrete Req.:

Area Required:

Min. Use Zone:

Weight:

SM = Surface Mount

	density polyethylene, color specified.
Ring Plate:	Fabricated from $^1/_4$ " HRPO steel plate. Finish: ProShield®, color specified.
Mount Plate:	Fabricated from $^1/_4$ " HRPO steel plate. Finish: ProShield, color specified.
Direct Bury Plate:	Weldment comprised of 2.375" O.D. RS20 (.095"105") wall galvanized steel tubing and $^{1}/_{4}$ " HRPO steel plate. Finish: ProShield, color specified.
Fasteners:	Primary fasteners shall be socketed and pinned tamperproof in design, stainless steel (SST) per ASTM F 879 unless otherwise indicated (see specific product installation/specifications).
Installation Time:	DB - Approx. 4 man hours SM - Approx. 2 ¹ / ₂ man hours

DB - Approx. 7.85 cu. ft.

18' 6" (5,63 m) diameter

DB - 247 lbs.

SM - 197 lbs.

6' (1,82 m)

Fall Height: 46" (1,16 m)

Cozy Dome Panel: Rotationally molded from U.V. stabilized linear low

Installation Instructions

(Direct Bury)

- 1) Refer to the Site Plan for footing locations.
- Attach ring plate to Cozy Dome panels, using ³/₈" x ⁷/₈" BHCS w/Pin with ³/₈" flat washers. Refer to the Panel Assembly Details.
- 3) Attach Cozy Dome panels together, using $\frac{3}{8}$ " x 1 $\frac{3}{8}$ " BHCS w/Pin with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " flange nuts w/pin. Refer to the Panel Assembly Details. **NOTE:** For ease of installation, insert the 3 interior bolts first, followed by the 3 outer bolts and then the interior bolts.
- 4) Attach direct bury plates to Cozy Dome panels, using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/pin with $\frac{3}{8}$ " flat washers. Refer to the Direct Bury Detail.
- 5) With Cozy Dome in position and level, pour concrete footings. Allow concrete to cure a minimum of 72 hours before allowing users to play on the structure.
- 6) Apply labels as shown.
- Install protective surfacing before users are allowed to play on the structure.

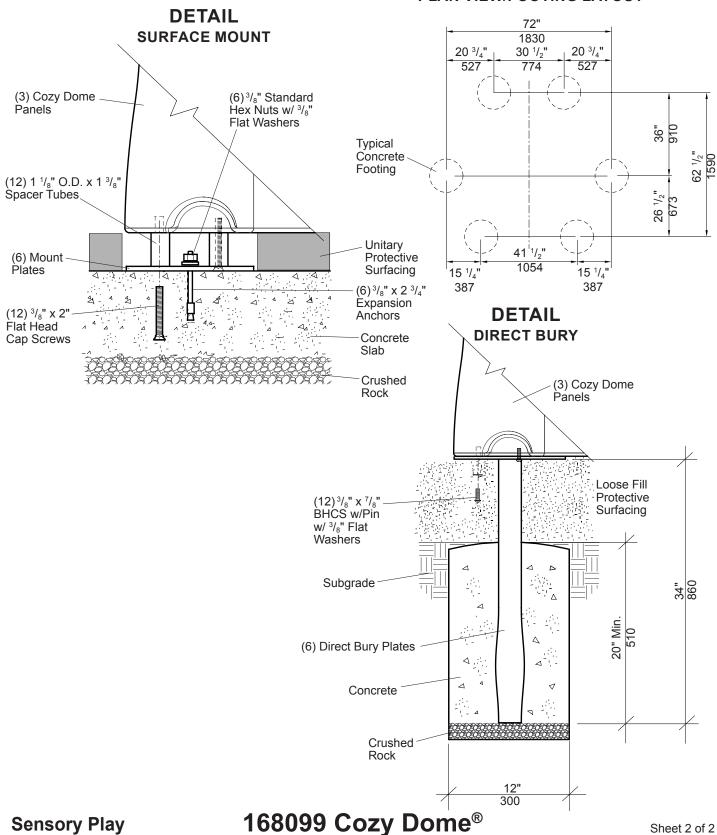
(Surface Mount)

- 1) Attach ring plate to Cozy Dome panels, using $\frac{3}{8}$ " x $\frac{7}{8}$ " BHCS w/Pin with $\frac{3}{8}$ " flat washers. Refer to the Panel Assembly Details.
- 2) Attach Cozy Dome panels together, using $\frac{3}{8}$ " x 1 $\frac{3}{8}$ " BHCS w/Pin with $\frac{3}{8}$ " flat washers and $\frac{3}{8}$ " flange nuts w/pin. Refer to the Panel Assembly Details. **NOTE:** For ease of installation, insert the 3 interior bolts first, followed by the 3 outer bolts and then the interior bolts.
- 3) Attach mount plates to Cozy Dome panels, using $1^{3}/_{8}$ " spacer tubes and $3/_{8}$ " x 2" flat head cap screws. Refer to the Surface Mount Detail.
- 4) With Cozy Dome in position, mark anchor bolt locations on the concrete slab (through holes in mount plates). Move Cozy Dome aside. Drill $^{3}/_{8}$ " x 3" deep holes, using a hammer drill and $^{3}/_{8}$ " masonry bit.
- 5) Reposition Cozy Dome. Tap ³/₈" x 2 ³/₄" expansion anchors into drilled holes. Fasten mount plates to ³/₈" x 2 ³/₄" expansion anchors, using ³/₈" standard hex nuts with ³/₈" flat washers. Refer to the Surface Mount Detail.
- 6) Apply labels as shown.
- Install protective surfacing before users are allowed to play on the structure.

Choose a protective surfacing material that has a Critical Height Value of at least the height of the Highest Accessible Part/Fall Height of the adjacent equipment. (Ref. ASTM F1487.)

168994b

DETAIL PLAN VIEW/FOOTING LAYOUT



landscape

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Exhibit B: Sign-in sheet identifying the attendees of the mandatory pre-bid meeting.

NW Neighborhood Park – Project No. 2015-11 Pre-bid Meeting Sign-in Sheet December 4, 2018 / 1:30 p.m.

Name - Organization	Email (and /or Phone)
Susan Muir – Director of Parks and Recreation, City of McMinnville	Susan.Muir@micminnvilleoregon.gov / 503-434-7359
Jim Sandlin – Landscape Architect, MacKay Sposito, Inc.	isandlin@mackaysposito.com / 503-381-2386
Rich Spofford – Engineering Services Manager	Rich.spofford@mcminnvilleoregon.gov / 503-434-7321
David Renshaw - Public Works Superintendent	David.renshaw@mcminnvilleoregon.gov / 503-434-7316
Anne Lane – Parks and Recreation Manager	Anne.lane@mcminnvilleoregon.gov / 503-435-0407
MIKE LYDA - LYDA EXCAVATING, INC	MULE LYON EX. COM (503) 318-7396
Austin Owings - Brown Contracting	Sean@browncontracting.net / 541-338-9345
DARRI UMBREGIE - KODIAK PARK CUST.	Dopay le known con con John 54961
Desuic Brayo - Brayon Construction	12 braun emsn.com 503-638-6406
Robert Cowden - RAR General Contractors, Inc.	estimation of regeing not (503) 586-0388
	QUOTES @ TAPANT. COM (360) 687-1148
1	bids @ emeryand 520 5. (020 583 588 7576
LOW NICORE DAD CONSIDE BUHILIES	\wedge
Neil Ochs PCR INC	Estimating @ PLR-INC. Net
	-

NW Neighborhood Park – Project No. 2015-11

Pre-bid Meeting Sign-in Sheet

December 4, 2018 / 1:30 p.m.



Name - Organization	Email (and/or Phone)
ANDREW CATBHOLM - PACEFIC EXCAVATEON TOK	ipaule paul brothersinc. com 503-6/3-1220
Cody Timmins - GBC Construction	cooline glocconstruct.com 541-230-0448
Mike DOTSON - OLS BERGMAN EXCAUATING	mike dotson@ ole bergman con 971-301-0666
Dan Mercer-Coochellow Bros. LLC.	i.
BILL SPRING - CAMEXIAVERSON	503
1 Sandstram - Subcom Excavation	Subcom. Utilities Oyahov.com 503.707.5153