BID OF_____

2015

PROPOSAL, CONTRACT, BOND AND SPECIFICATIONS

FOR

HIGHLAND MANOR PARK IMPROVEMENTS

CONTRACT NO. 7466

PROJECT NO. 53W1915

MUNIS NO. 10485-51-130

IN

MADISON, DANE COUNTY, WISCONSIN

AWARDED BY THE COMMON COUNCIL
MADISON, WISCONSIN ON_____

CITY ENGINEERING DIVISION
1600 EMIL STREET
MADISON, WISCONSIN 53713

https://bidexpress.com/login

HIGHLAND MANOR PARK IMPROVEMENTS
CONTRACT NO. 7466

INDEX

This Proposal, and Agreement have
been prepared by:

CITY PARKS DIVISION
CITY OF MADISON
MADISON, DANE COUNTY, WISCONSIN

Eric M. Knepp – Superintendant of Parks

EMK: tjm

SECTION A: ADVERTISEMENT FOR BIDS AND INSTRUCTIONS TO BIDDERS

REQUEST FOR BID FOR PUBLIC WORKS CONSTRUCTION
CITY OF MADISON, WISCONSIN

A BEST VALUE CONTRACTING MUNICIPALITY

PROJECT NAME:	HIGHLAND MANOR PARK IMPROVEMENTS
CONTRACT NO.:	7466
BID BOND	5%
PREQUALIFICATION APPLICATION DUE (1:00 P.M)	2/13/15
BID SUBMISSION (1:00 P.M.)	2/20/15
BID OPEN (1:30 P.M.)	2/20/15
PUBLISHED IN WSJ	01/30/15 & 02/06/15; 02/13/15

PREQUALIFICATION APPLICATION: Forms are available at the same location or on our website, www.cityofmadison.com/business/pw/forms.cfm. If not currently prequalified in the categories listed in Section A, an amendment to your Prequalification will need to be submitted prior to the same due date. Postmark is not applicable.

BIDS TO BE SUBMITTED by hand to 1600 EMIL ST., MADISON, WI 53713 or online at www.bidexpress.com.

THE BID OPENING is at 1600 EMIL ST., MADISON, WI 53713.

STANDARD SPECIFICATIONS

The City of Madison's Standard Specifications for Public Works Construction - 2014 Edition, as supplemented and amended from time to time, forms a part of these contract documents as if attached hereto.

These standard specifications are available on the City of Madison Public Works website, www.cityofmadison.com/Business/PW/specs.cfm.

The Contractor shall review these Specifications prior to preparation of proposals for the work to be done under this contract, with specific attention to Article 102, "BIDDING REQUIREMENTS AND CONDITIONS" and Article 103, "AWARD AND EXECUTION OF THE CONTRACT." For the convenience of the bidder, below are highlights of three subsections of the specifications.

SECTION 102.1: PRE-QUALIFICATION OF BIDDERS

In accordance with Wisconsin State Statutes 66.0901 (2) and (3), all bidders must submit to the Board of Public Works proof of responsibility on forms furnished by the City. The City requires that all bidders be qualified on a biennial basis.

Bidders must present satisfactory evidence that they have been regularly engaged in the type of work specified herein and they are fully prepared with necessary capital, materials, machinery and supervisory personnel to conduct the work to be contracted for to the satisfaction of the City. All bidders must be pre-qualified by the Board of Public Works for the type of construction on which they are bidding prior to the opening of the bid.

In accordance with Section 39.02(9)(a)l. of the General Ordinances, all bidders shall submit in writing to the Affirmative Action Division Manager of the City of Madison, a Certificate of Compliance or an Affirmative Action Plan at the same time or prior to the submission of the proof of responsibility forms.

The bidder shall be disqualified if the bidder fails to or refuses to, prior to opening of the bid, submit a Certificate of compliance, Affirmative Action Plan or Affirmative Action Data Update, as applicable, as defined by Section 39.02 of the General Ordinances (entitled Affirmative Action) and as required by Section 102.11 of the Standard Specifications.

SECTION 102.4 PROPOSAL

No bid will be accepted that does not contain an adequate or reasonable price for each and every item named in the Schedule of Unit Prices.

A lump sum bid for the work in accordance with the plans and specifications is required. The lump sum bid must be the same as the total amounts bid for the various items and it shall be inserted in the space provided.

All papers bound with or attached to the proposal form are considered a part thereof and must not be detached or altered when the proposal is submitted. The plans, specifications and other documents designated in the proposal form will be considered a part of the proposal whether attached or not.

A proposal submitted by an individual shall be signed by the bidder or by a duly authorized agent. A proposal submitted by a partnership shall be signed by a member/partner or by a duly authorized agent thereof. A proposal submitted by a corporation shall be signed by an authorized officer or duly authorized registered agent of such corporation, and the proposal shall show the name of the State under the laws of which such corporation was chartered. The required signatures shall in all cases appear in the space provided thereof on the proposal.

Each proposal shall be placed, together with the proposal guaranty, in a sealed envelope, so marked as to indicate name of project, the contract number or option to which it applies, and the name and address of the Contractor or submitted electronically through Bid Express (www.bidexpress.com). Proposals will be accepted at the location, the time and the date designated in the advertisement. Proposals received after the time and date designated will be returned to the bidder unopened.

The Bidder shall execute the Disclosure of Ownership form. REFER TO SECTION F.

SECTION 102.5: BID DEPOSIT (PROPOSAL GUARANTY)

All bids, sealed or electronic, must be accompanied with a Bid Bond equal to at least 5% of the bid or a Certificate of Annual/Biennial Bid Bond or certified check, payable to the City Treasurer. Bid deposit of the successful bidders shall be returned within forty-eight (48) hours following execution of the contract and bond as required.

PREVAILING WAGE RATES

Prevailing Wage Rates may be required and are attached in Section J of the contract. See Special Provisions to determine applicability.

Bidders for this Contract(s) must be Pre-Qualified for at least one of the following type(s) of construction denoted by an ☒

Building Demolition

101 ☐ Asbestos Removal
120 ☐ House Mover
110 ☐ Building Demolition

Street, Utility and Site Construction

201 ☒ Asphalt Paving
205 ☐ Blasting
210 ☐ Boring/Pipe Jacking
215 ☒ Concrete Paving
220 ☐ Con. Sidewalk/Curb & Gutter/Misc. Flat Work
221 ☐ Concrete Bases and Other Concrete Work
222 ☐ Concrete Removal
225 ☐ Dredging
230 ☐ Fencing
235 ☐ Fiber Optic Cable/Conduit Installation
240 ☒ Grading and Earthwork
241 ☐ Horizontal Saw Cutting of Sidewalk
242 ☐ Infrared Seamless Patching
245 ☐ Landscaping, Maintenance
250 ☐ Landscaping, Site and Street
251 ☐ Parking Ramp Maintenance
252 ☐ Pavement Marking
255 ☐ Pavement Sealcoating and Crack Sealing
260 ☐ Petroleum Above/Below Ground Storage Tank Removal/Installation
262 ☒ Playground Installer
265 ☐ Retaining Walls, Precast Modular Units
270 ☐ Retaining Walls, Reinforced Concrete
275 ☒ Sanitary, Storm Sewer and Water Main Construction
276 ☐ Sawcutting
280 ☐ Sewer Lateral Drain Cleaning/Internal TV Insp.
285 ☐ Sewer Lining
290 ☐ Sewer Pipe Bursting
295 ☐ Soil Borings
300 ☐ Soil Nailing
305 ☐ Storm & Sanitary Sewer Laterals & Water Svc.
310 ☐ Street Construction
315 ☐ Street Lighting
318 ☐ Tennis Court Resurfacing
320 ☐ Traffic Signals
325 ☐ Traffic Signing & Marking
332 ☐ Tree pruning/removal
333 ☐ Tree, pesticide treatment of
335 ☐ Trucking
340 ☐ Utility Transmission Lines including Natural Gas, Electrical & Communications
399 ☐ Other_____

Bridge Construction

501 ☐ Bridge Construction and/or Repair

Building Construction

401 ☐ Floor Covering (including carpet, ceramic tile installation, rubber, VCT
402 ☐ Building Automation Systems
403 ☐ Concrete
404 ☐ Doors and Windows
405 ☐ Electrical - Power, Lighting & Communications
410 ☐ Elevator - Lifts
412 ☐ Fire Suppression
413 ☐ Furnishings - Furniture and Window Treatments
415 ☐ General Building Construction, Equal or Less than $250,000
420 ☐ General Building Construction, $250,000 to $1,500,000
425 ☐ General Building Construction, Over $1,500,000
428 ☐ Glass and/or Glazing
429 ☐ Hazardous Material Removal
430 ☐ Heating, Ventilating and Air Conditioning (HVAC)
433 ☐ Insulation - Thermal
435 ☐ Masonry/Tuck pointing
437 ☐ Metals
440 ☐ Painting and Wallcovering
445 ☐ Plumbing
450 ☐ Pump Repair
455 ☐ Pump Systems
460 ☐ Roofing and Moisture Protection
464 ☐ Tower Crane Operator
461 ☐ Solar Photovoltaic/Hot Water Systems
465 ☐ Soil/Groundwater Remediation
466 ☐ Warning Sirens
470 ☐ Water Supply Elevated Tanks
475 ☐ Water Supply Wells
480 ☐ Wood, Plastics & Composites - Structural & Architectural
499 ☐ Other_____
_____
_____

State of Wisconsin Certifications

1 ☐ Class 5 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for quarries, open pits and road cuts.
2 ☐ Class 6 Blaster - Blasting Operations and Activities 2500 feet and closer to inhabited buildings for trenches, site excavations, basements, underwater demolition, underground excavations, or structures 15 feet or less in height.
3 ☐ Class 7 Blaster - Blasting Operations and Activities for structures greater than 15 ' in height, bridges, towers, and any of the objects or purposes listed as “Class 5 Blaster or Class 6 Blaster”.
4 ☐ Petroleum Above/Below Ground Storage Tank Removal and Installation (Attach copies of State Certifications.)
5 ☐ Hazardous Material Removal (Contractor to be certified for asbestos and lead abatement per the Wisconsin Department of Health Services, Asbestos and Lead Section (A&LS).) See the following link for application: www.dhs.wisconsin.gov/Asbestos/Cert. State of Wisconsin Performance of Asbestos Abatement Certificate must be attached.
6 ☐ Certification number as a Certified Arborist or Certified Tree Worker as administered by the International Society of Arboriculture
7 ☐ Pesticide application (Certification for Commercial Applicator For Hire with the certification in the category of turf and landscape (3.0) and possess a current license issued by the DATCP)
8 ☐ State of Wisconsin Master Plumbers License.

SECTION B: PROPOSAL

Please refer to the Bid Express Website at https://bidexpress.com look up contract number and go to Section B: Proposal Page

You can access all City of Madison bid solicitations for FREE at www.bidexpress.com

Click on the "Register for Free" button and follow the instructions to register your company and yourself. You will be asked for a payment subscription preference, since you may wish to bid online someday. Simply choose the method to pay on a 'per bid' basis. This requires no payment until / unless you actually bid online. You can also choose the monthly subscription plan at this time. You will, however, be asked to provide payment information. Remember, you can change your preference at anytime. You will then be able to complete your free registration and have full access to the site. Your free access does not require completion of the 'Digital ID' process, so you will have instant access for viewing and downloading. To be prepared in case you ever do wish to bid online, you may wish to establish your digital ID also, since you cannot bid without a Digital ID.

If you have any problems with the free registration process, you can call the bidexpress help team, toll free at 1-888-352-2439 (option 1, option1).

SECTION C: SMALL BUSINESS ENTERPRISE

Instructions to Bidders
City of Madison
SBE Program Information

SBE NOT APPLICABLE

SECTION D: SPECIAL PROVISIONS

HIGHLAND MANOR PARK IMPROVEMENTS
CONTRACT NO. 7466

It is the intent of these Special Provisions to set forth the final contractual intent as to the matter involved and shall prevail over the Standard Specifications and plans whenever in conflict therewith. In order that comparisons between the Special Provisions can be readily made, the numbering system for the Special Provisions is equivalent to that of the Specifications.

Whenever in these Specifications the term "Standard Specifications" appears, it shall be taken to refer to the City of Madison Standard Specifications for Public Works Construction and Supplements thereto.

SECTION 102.1: PREQUALIFICATION OF BIDDERS

The bidder for this contract must be pre-qualified in at least one of several different categories due to the nature of work involved with this contract. If the General Contractor is prequalified in a category other than Playground Installer (#262 under Street, Utility and Site Construction), their sub contractor must be prequalified as a Playground Installer. Work to be performed by prequalified category #262 Playground Installer, shall include (but not be limited to) BID ITEM 90006 – PLAYGROUND EQUIPMENT INSTALLATION. General Contractors who are not prequalified as a Playground Installer under prequalification category #262 must submit proof that their sub contractor is prequalified under category #262 within 2 business days of submitting their bid.

SECTION 102.10: PREVAILING WAGE

For this project, payment of prevailing wages (white sheet) shall be required unless the box indicating prevailing wages are not required is checked below.

☒ Prevailing wages shall not be required when this box is checked.

If prevailing wages (white sheets) are required, the wages and benefits paid on the contract shall not be less than those specified in the Prevailing Wage Determination included with these contract documents for the following types of work:

☐ Building or Heavy Construction
☐ Sewer, Water, or Tunnel Construction
☐ Local Street or Miscellaneous Paving Construction
☐ Residential or Agricultural Construction

When multiple boxes are checked, worker's wages may vary according to the type and area of work performed. It is the responsibility of the Contractor to determine and apply the appropriate wage rate for the specific work assigned.

SECTION 102.12: BEST VALUE CONTRACTING

This Contract shall be considered a Best Value Contract if the Contractor's bid is equal to or greater than $55,500 for a single trade contract; or equal to or greater than $271,500 for a multi-trade contract pursuant to MGO 33.07(7).

SECTION 104: SCOPE OF WORK

The Madison Parks Division is installing new park facilities at Highland Manor Park on Madison's south side. Improvements installed as a part of this contract include play equipment, a half basketball court and an asphalt path connecting these facilities. Also included as a part of this contract is the installation of a storm sewer system and restoration grading/seeding around the newly installed facilities.

SECTION 105.9: SURVEYS, POINTS, AND INSTRUCTION

The Contractor is responsible for the layout of the playground under drain system per Bid Item 20130. The City of Madison shall be responsible for setting all other lines and/or grades required to complete the work for this contract. Any questions regarding the layout and staking of this project should be directed to City of Madison Parks Surveyor Dan Rodman at 266-6674.

SECTION 105.12: COOPERATION OF THE CONTRACTOR

Several utilities exist on site. The Contractor shall perform a One Call through Digger's Hotline for each site at least three days prior to beginning construction. To ensure that Parks-owned utilities are also marked, **INCLUDE THE PARK NAME** at the beginning of the Marking Instructions field on the ticket, and send a copy of the ticket to the City of Madison Parks Surveyor (Dan Rodman / drodman@cityofmadison.com / tel (608)266-6674 / fax (608)267-1162).

The Contractor shall secure materials at the end of each work day to deter any potential vandalism and theft.

The Contractor shall attend a pre-construction meeting prior to the start of construction.

The Contractor warrants that its services are performed, within the limits prescribed by the City, with the usual thoroughness and competence of the consulting profession; in accordance with the standard for professional services at the time those services are rendered. The Contractor shall be responsible for the accuracy of the work performed under this Agreement, and shall promptly make necessary revisions or corrections resulting from their negligent acts, errors or omissions without additional compensation. The Contractor shall be responsible for any damages incurred as a result of their errors, omissions, or negligent acts and for any losses or costs to repair or remedy construction.

The Contractor shall take care when accessing each park site not to damage the existing utilities, concrete curb, sidewalk, asphalt pavement or other park facilities. Any damage shall be repaired by the Contractor per City of Madison Standard Specifications for Public Works Construction and considered incidental this contract.

The Contractor shall view the site prior to bidding to become familiar with the existing conditions. The Contractor shall work with the existing utilities to resolve conflicts during the construction process.

SECTION 107.2: PROTECTION AND RESTORATION OF PROPERTY

The Contractor shall not grade, excavate, store equipment or materials or otherwise disturb any areas outside the project limits as shown on the plans, without permission of the Engineer.

SECTION 108.2: PERMITS

The following permit will be applied for by the City of Madison for the project:

1. City of Madison Erosion Control Permit (EC Permit).

The Contractor shall meet the conditions of the permit and must keep a copy of the permit on site at all times throughout construction.

The Contractor shall meet the conditions of the permit including properly installing and maintaining the erosion control measures shown on the plans, specified in these Special Provisions, or as directed by the Engineer or his designees. This work will be paid for under the appropriate bid items, or if appropriate items are not included in the contract, they shall be paid for as Extra Work.

The City's obtaining this permit is not intended to be exhaustive of all permits that may be required to be obtained by the Contractor for construction of this project. It shall be the responsibility of the Contractor to identify and obtain any other permits needed for construction.

SECTION 109.2: PROSECUTION OF THE WORK

Work cannot start on this contract until after the "Start to Work" letter has been received. Construction work must begin within seven (7) calendar days after the date appearing on the mailed notice to do so that was sent to the Contractor. Construction work shall be carried at a rate so as to secure full completion within the contract times outlined in Section 109.7, the rate of progress and the time of completion being essential conditions of this Agreement.

The fixed, agreed upon, liquidated damages for failure to complete all work within the contract, unless otherwise specified in this section, shall be calculated in accordance with Article 109 of the Standard Specifications. The Contractor shall limit workdays from 7:00 am to 7:00 pm, Monday - Friday, unless approved by the Engineer in writing.

SECTION 109.7: TIME OF COMPLETION

Work on this contract shall start on or around May 4, 2015 be complete by July 3, 2015.

BID ITEM # 10911: MOBILIZATION

DESCRIPTION

Work under this item shall include all costs associated with mobilization to the site by the Contractor.

Parking of equipment, storage of materials, and staging shall be allowed as shown on plans.

The Contractor may only enter the construction site through an area bordered by construction fencing as shown on the plans. **THE CONTRACTOR MAY NOT DRIVE OR STORE EQUIPMENT ON ANY PORTION OF THE PARK OUTSIDE THE CONSTRUCTION LIMITS UNLESS INDICATED OTHERWISE ON PLANS OR DIRECTED IN THE FIELD.**

All materials purchased by the City of Madison shall be ordered for delivery to pre-determined receiving locations as described in the individual bid item descriptions. The Contractor shall provide equipment and labor for receiving, trucking and off-loading as needed.

Contractor is responsible for securing all deliveries and insuring the completeness of the order prior to installation.

The Contractor is responsible for restoration of any damage to the site due to construction access.

METHOD OF MEASUREMENT

Mobilization shall be paid as a lump sum for mobilization related to each project site.

BASIS OF PAYMENT

Mobilization shall be measured as described above and shall be paid for at the contract price which shall be full compensation for all work, materials, tools, equipment, labor, and incidentals required to complete the work as set forth in the description.

ARTICLE 200: EARTHWORK

The earthwork quantities for this contract have been broken up into the following categories:

Excavation Cut (Bid Item #20101) For this contract, Excavation Cut is defined as any asphalt (Asphalt flume draining the street runoff into the ditch) to be removed and sub grade or topsoil beyond 6" deep, excavated from this project. The top 6" of topsoil removal is covered under Bid item # 90003 - Strip Topsoil.

Fill Borrow (Bid Item # 20202) - Any excavated subsoil or topsoil above and beyond the 6" of stripped topsoil (Bid Item # 90003), that is kept on site and used as fill to bring the site to subgrade, will be paid for as a part of the Fill Borrow bid item for this project. Some topsoil will be used as fill borrow as there is not enough sub soil being excavated to bring the site to sub grade. This topsoil will not be used to create the sub grade under the basketball court or path. It will only be used in creating the slopes in between and around the park facilities and can be used as fill under the play equipment. Under the basketball court and path any fill borrow needed to bring the sub soil up to subgrade will be gravel base paid for as a part of Bid Item # 40102 Crushed Aggregate Base Course. Subsoil is not to be used as fill on top of topsoil (layering). Subsoil is to be used up first then topsoil is to be put on top of the subsoil.

Hauling and Disposal (Bid Item # 90002) Any extra excavation cut deemed not needed and is removed from the project site will be paid for as a part of the Hauling and Disposal bid item for this project.

Strip Topsoil (Bid Item # 90003) The removal and stockpiling of 6" of topsoil from the project site as shown on the plans.

Topsoil Redistribution (Bid Item # 90004) The re-distribution of 6" topsoil removed as a part of Bid Item #90003 Strip Topsoil to the finish grades shown on the plan. .

See the earthwork quantity worksheet for more detail. The different quantities for each project have been calculated using four (4) digital terrain models (existing, existing sub grade, proposed sub grade and proposed finished). Cut (in place quantities) and fill have been estimated from these models and unless there are significant changes to the plan, the quantity in the contract shall be the final amount for payment. No shrinkage factor has been applied to fill quantities to estimate net volume. The Contractor is responsible to review attached earthwork calculations. Three-dimensional Microstation (.dgn) files containing the digital terrain models used for the earthwork calculations are available.

The added up quantities shown in the proposal page are taken from each project's earthwork quantity worksheet. The total of these quantities will be the final total quantities paid for the overall project. Changes may be made to quantities at each site based on whether the Engineer decides some material is not of good enough quality to be re-used as Fill Borrow and taken off site. If that is the case and the amount of Hauling And Disposal goes up, the amount of Fill Borrow will go down. The overall quantity of material moved around on site will stay the same when added together.

BID ITEM # 20101: EXCAVATION CUT

DESCRIPTION

Excavation cut includes all excavation of existing sub soil required to bring the site to proposed sub grade, after removal of 6" of topsoil. Stripping and stockpiling of the 6" of topsoil will be paid for as a part of the Strip Topsoil bid item for this project. This material will be used as fill borrow around the park facilities below the redistributed topsoil. The amount of excavation cut for this project, and where it comes from, is detailed in the earthwork quantity sheet included as a part of these special provisions.

METHOD OF MEASUREMENT

Excavation Cut is measured by the cubic yard as described above.

BASIS OF PAYMENT

Excavation Cut shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals

required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

BID ITEM # 20202: FILL BORROW

DESCRIPTION

The project is bid in such a way that the contractor will minimize the amount of Excavation Cut leaving the site by re-using it on site as Fill Borrow. The price per CY for Fill Borrow is to include all coordination, handling, re-handling, stockpiling and/or temporary stockpiling needed to redistribute the material on site where shown on the plans. The temporary stockpile area for sub grade work will be the same as the topsoil stockpile area. Fill borrow will be considered sub soil and any extra topsoil excavated from the project site above and beyond the 6" of topsoil removed and replaced as a part of Bid Item # 90003 Strip Topsoil and Bid Item # 90004 Topsoil Redistribution.

METHOD OF MEASUREMENT

Fill Borrow is measured by the cubic yard, as described in the detailed earthwork quantity breakdown sheet for this bid item and should include any on site trucking, temporary stockpiling, spreading and rough grading where needed to bring the project up to proposed sub grade.

BASIS OF PAYMENT

Fill Borrow shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

BID ITEM 20130: UNDERDRAIN

DESCRIPTION

This work shall include all labor, equipment, materials, and incidentals required to install and connect four-inch perforated pipe under drain, wrapped, including open graded base course and filter fabric sock and connection to the 12" storm sewer as shown on the plans or as directed by the Engineer.

Drain pipe shall pitch at a minimum 0.5% slope in a bed of open graded base course to cover and envelope the pipe a minimum of 3" around. Drain pipe shall be located as shown on the plan and approved by the Engineer before backfilling. Installation of the stone, filter fabric sock, perforated pipe, excavation cut and connection to the type H inlet is incidental to this bid item.

When installing the under drain system the Contractor shall maintain a 24" minimum clearance from playground equipment footings.

The Contractor shall be responsible for staking horizontal and vertical alignment of drain tile. The Contractor shall contact City of Madison Parks Surveyor, Dan Rodman at 209-7012 at least 48 hours prior to field check under drain elevations prior to backfilling.

METHOD OF MEASUREMENT

Underdrain shall be measured by the linear foot quantity determined in the field.

BASIS OF PAYMENT

Underdrain shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, and incidentals required to complete the work as set forth in the description.

BID ITEM # 20140: GEOTEXTILE FABRIC TYPE SAS NON WOVEN

DESCRIPTION

Work under this bid item shall include all necessary work, labor and incidentals required to install Type SAS Non Woven Geotextile Fabric between the proposed subgrade/under drain and the playground surfacing (installed by others).

Geotextile fabric shall have a minimum 4 oz/sy fabric strength.

Overlap and staple pattern shall be in accordance with the manufacturer's recommendations, or as modified or approved in the field to accommodate the underlying play equipment. The Contractor shall provide to the City the manufacturer's recommended staple pattern.

METHOD OF MEASUREMENT

Geotextile Fabric Type SAS Non Woven shall be measured by the square yard quantity as listed in the proposal page without measurement thereof, not including run out in anchor trenches or overlap.

BASIS OF PAYMENT

Geotextile Fabric Type SAS Non Woven shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, and incidentals required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

BID ITEM # 20701: TERRACE SEEDING

DESCRIPTION

Work under this item shall include fine grading of the existing topsoil redistributed on site - to the grades shown on the plans, seed bed preparation and seeding the lawn areas adjacent to each new park facility as shown on the plans. The seed mixture shall be Sun Terrace Mix, installed per the City of Madison Standard Specifications for Public Works Construction.

Contractor to note - the Parks Division is to be called to inspect and approve the finish grade prior to seeding and mulching. The Contractor will be paid for as-built quantities measured in place.

Contractor is responsible for obtaining seed bed germination per Article 207 of the City of Madison Standard Specifications for Public Works Construction, regardless of site conditions.

METHOD OF MEASUREMENT

Terrace Seeding shall be measured and paid for by the square yard.

BASIS OF PAYMENT

Terrace Seeding shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

BID ITEM # 21013: STREET SWEEPING

DESCRIPTION

Work under this item shall include the street sweeping of the entrance and along Manor Drive for the duration of the project. Street sweeping shall be completed as directed by the Engineer and shall remove all loose material to the satisfaction of the Engineer.

METHOD OF MEASUREMENT

Street Sweeping, shall be measured by lump sum for the duration of the project.

BASIS OF PAYMENT

Street Sweeping shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

BID ITEM # 21017: SILT SOCK (8 INCH) - COMPLETE

DESCRIPTION

Work under this item shall include all work, materials, labor, and incidentals required to install, maintain and remove silt sock at the location shown on the plan around the topsoil pile/staging area.

METHOD OF MEASUREMENT

Silt Sock (8 inch) – Complete, shall be measured by linear foot for the completed work as described above.

BASIS OF PAYMENT

Silt Sock (8 inch) – Complete, shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description.

BID ITEM # 21063: EROSION MATTING, CLASS 1 URBAN TYPE A - ORGANIC

DESCRIPTION

Work under this bid item shall include installation of Erosion Matting, Class I Urban Type A - Organic on all seeded areas of the project.

Work under this bid item shall be as set forth in the latest edition of the City of Madison Standard Specifications for Public Works Contracts, except the Contractor shall note that special care with anchorage devices shall be required so as to not injure users of the park. Anchorage devices for the mat are required to be a product identified on the Wisconsin Department of Transportation Erosion Control Product Acceptability List (PAL) under the category of “Anchoring Devices for Class I, Urban Erosion Mat.

Anchorage devices shall be completely biodegradable, and photobiodegradable or metal anchorage devices shall not be allowed. Materials deemed to present a hazard from splintering or spearing shall not be approved, including solid wood devices.

Photobiodegradable matting is not allowed.

Erosion Matting, Class I Urban Type A – Organic installed correctly with correct anchorage, staple pattern, and overlap shall be paid at the contract price. To verify the staple pattern, the Contractor shall provide to the City a Manufacturer's recommended staple pattern for the type of matting installed.

Trimming of the Erosion Matting, Class I Urban Type A – Organic required to accommodate existing tree locations shall be considered incidental to this bid item.

METHOD OF MEASUREMENT

Erosion Matting, Class I Urban Type A – Organic shall be measured by the square yard.

BASIS OF PAYMENT

Erosion Matting, Class I Urban Type A shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

BID ITEM # 30301: 5 INCH CONCRETE SIDEWALK

DESCRIPTION

Work under this item shall include all work, materials, labor, and incidentals required to install new 5" thick 8' x 8' concrete pad for a bike rack, including the installation of 6" of gravel base, where shown on the plans.

METHOD OF MEASUREMENT

5 Inch Concrete Sidewalk shall be measured by the square foot.

BASIS OF PAYMENT

5 Inch Concrete Sidewalk shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

ARTICLE 402: ASPHALT CONSTRUCTION

All asphalt construction shall be according to the City of Madison Standard Specifications for Public Works Construction Section 402.

Asphalt Path and Basketball Court:
The asphalt path and basketball court are to be paved as a part of Bid Item #40201 HMA Pavement Type E-0.3 measured per ton - 3" total thickness of 12.5 mm mix to be placed in one lift.

There will be a minor amount of hand rolling/raking required to create a rolled edge at the play equipment end of the path (see detail on sheet 1.9). The cost of all prep work is to be included in the per ton price for Bid Item # 40201 HMA Pavement Type E-0.3.

Create asphalt flume around inlet:
There will be a small amount of asphalt (appx .5 ton), needed to re-pave around the inlet along with a short piece of asphalt curb behind the inlet. This amount is included in the total tonnage required for the project. The cost of installing the asphalt flume is to be included in the price per ton for Bid Item # 40201.

BID ITEM # 40321: UNDERCUT

DESCRIPTION

Work under this item shall include all equipment, labor and incidentals necessary to undercut areas of the path or basketball court, if needed, according to Section 403.4 of the Standard Specifications for Public Works Construction. The square yardage shown in the proposal page is an estimate only. If no undercut is required this bid item will not be paid.

The filling of undercut areas with 3" clear stone as described in Section 403.4 of the Standard Specifications for Public Works Construction, will be paid for under Bid Item # 20217 - 3" Clear Stone. The test rolling is to be included as a part of this bid item.

METHOD OF MEASUREMENT

Undercut shall be measured per square yard.

BASIS OF PAYMENT

Undercut shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

ARTICLE 502: STORM SEWER TRENCH EXCAVATION, BEDDING AND BACKFILL

General
For this project, the extra excavation cut from the project, can be used to fill the storm sewer trenches once the bedding and storm sewer is installed.

BID ITEM # 90000: SALVAGE AND RESET 30" APRON ENDWALL

DESCRIPTION

Work under this item shall include materials, incidentals and labor required to carefully salvage, set aside and re-install, according to the City of Madison Standard Specifications for Public Works Contracts, the existing 30" apron end wall located in the ditch north of Manor Drive, in the proposed location as shown on the Storm Sewer/Erosion Control Plan.

METHOD OF MEASUREMENT

Salvage and reset 30" apron endwall, shall be measured by lump sum.

BASIS OF PAYMENT

Salvage and reset 30" apron endwall shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

BID ITEM # 90001: CONSTRUCTION FENCING

DESCRIPTION

Work under this item shall include all materials, labor and incidentals necessary for the Contractor to provide, install, maintain and remove construction fencing on the project site. The Contractor shall place fencing in the approximate lengths and location shown on the plans. The exact placement of the fence for each site will be determined at the pre-construction meeting. This fence shall be highly visible (orange or yellow), constructed of a plastic web, and able to withstand the expected amount of use it will receive

on a construction site. See site plan for each project for approximate location. Contractor to note, this project is in a heavily used park and therefore the contractor is to make sure at the end of each work day the construction fence is in working order and the gate is closed. Estimated linear footage is as shown on the plans.

METHOD OF MEASUREMENT

Construction Fencing shall be measured by the linear foot.

BASIS OF PAYMENT

Construction Fencing shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

BID ITEM # 90002: HAULING AND DISPOSAL

DESCRIPTION

Work under this item shall include all materials, labor and incidentals necessary for the Contractor to haul and dispose of materials deemed "not suitable to use as topsoil or sub soil on site". Any material removed as a part of Bid Item #40321 Undercut will be paid for as a part of that bid item, not the Hauling and Disposal bid item for this project. The estimated amount of material coming off of the site is on the detailed earthwork quantity work sheet included with these special provisions.

METHOD OF MEASUREMENT

Hauling and Disposal shall be measured by the cubic yard.

BASIS OF PAYMENT

Hauling and Disposal shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description.

BID ITEM # 90003: STRIP TOPSOIL

DESCRIPTION

Work under this item shall include all materials, labor and incidentals necessary for the contractor to strip 6" of topsoil from the project site as shown on the plans and stockpile the stripped topsoil where shown on the plans. Any temporary moving/stockpiling is to be included in the cost of this bid item. The redistribution of this topsoil on site will be paid for as a part of Bid Item # 90004 Topsoil Redistribution.

METHOD OF MEASUREMENT

Strip Topsoil shall be measured by the square yard @ 6" deep.

BASIS OF PAYMENT

Strip Topsoil shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description. Unless there is an approved significant change by the Engineer, no payment shall be given for changes in quantities listed in proposal.

BID ITEM # 90004: TOPSOIL REDISTRIBUTION

DESCRIPTION

Work under this item shall include all materials, labor and incidentals necessary for the contractor to redistribute and rough grade the stripped topsoil removed and stockpiled as a part of Bid Item # 90003 Strip Topsoil for the project, to the finish grades and lines as shown on the plans.

METHOD OF MEASUREMENT

Topsoil Redistribution shall be measured by the square yard @ 6" deep.

BASIS OF PAYMENT

Topsoil Redistribution shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, labor, tools, equipment, disposal, and incidentals required to complete the work as set forth in the description. Unless there is a significant change, no payment shall be given for changes in quantities listed in proposal.

BID ITEM # 90005: INSTALL NEW BASKETBALL POLE, BACKBOARD, RIM AND NET

DESCRIPTION

The work to be done under this contract consists of furnishing all labor, equipment, and materials necessary to install a basketball pole, backboard, rim and net, at Highland Manor Park, in accordance with the manufacturers specifications and these drawings (sheet 1.8). Layout of the pole is to be done by the Contractor and approved by the Parks Division prior to installation. Any questions regarding installation should be directed to Thomas Maglio, City of Madison Parks Division, (608) 266-6518.

The pole, backboard, rim and net will be purchased by the City Parks Division under separate contract and stored at:

Goodman Field Parks Maintenance Facility
1402 Wingra Creek Parkway, Madison, WI 53715.

The Contractor will be responsible for picking up the pole, backboard, rim and net and delivering them to the job site. The service yard hours are 7:00 a.m. to 3:00 p.m. Contact Tom Maglio at (608) 266-6518 to coordinate pick-up.

METHOD OF MEASUREMENT

Method of measurement for the work described above will be per complete unit which includes the following:

- Pick up at Goodman Maintenance Facility and deliver to the work site
- Installation of the pole, backboard, rim and net according to manufacturers specifications

BASIS OF PAYMENT

Installation of new basketball pole, backboard, rim and nets are to be paid for per unit for the completed work as described above.

BID ITEM # 90006: PLAYGROUND EQUIPMENT INSTALLATION

DESCRIPTION

Play equipment shall be purchased by the City of Madison and ordered for delivery from the play equipment vendor to be delivered to the Contractor's pre-determined receiving location. The

Contractor shall provide equipment and labor for off-loading, loading, and trucking as needed. Contractor is responsible for storing all equipment, securing all deliveries and insuring the completeness of the playground equipment order prior to installation. Original packing slips from each shipment shall be provided to the Engineer.

The Contractor shall contact Engineer within three (3) working days of receipt of the playground equipment to confirm equipment matches what was specified.

The Contractor shall contact the City of Madison Playground Construction Inspector both prior to installation to coordinate exact date for playground installation and after installation is complete to verify correct layout.

All installation of equipment shall adhere and conform to the installation specifications as provided by the playground manufacturer, and shall be further inspected by the City of Madison Playground Construction Inspector and manufacturer following installation. The Contractor is required to make any necessary adjustments to the play equipment installation determined by the City of Madison Playground Construction Inspector to rectify incorrect installation. Actual layout of play system and components to be installed shall comply with that shown in the plans and be confirmed in the field the City of Madison Playground Construction Inspector (225-0810) and Dan Rodman (209-7012), the City of Madison Parks Surveyor. Please allow 48 hours to schedule.

The playground shall be installed to the correct elevations as specified by the playground manufacturer and installation specifications to meet required elevations based on the finished playground surfacing elevations as shown on the plans.

See Appendix 1 for the Manufacturers' Playground Equipment Installation Instructions for each park.

The Contractor shall contact the City of Madison Parks Surveyor throughout installation to verify that playground equipment is installed at the correct horizontal layout and vertical elevations with respect to the proposed playground surfacing elevation identified on the plans.

METHOD OF MEASUREMENT

Playground Equipment Installation shall be measured by lump sum for the completed work as described above.

BASIS OF PAYMENT

Playground Equipment Installation shall be measured as described above and shall be paid at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description. Playground equipment concrete footing installation, materials and excavation are incidental to this bid item.

BID ITEM # 90007: PLAYGROUND BORDER TIMBERS

DESCRIPTION

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to install playground border timbers at each project site as shown on the plans.

Playground border timbers shall be purchased by the City of Madison and ordered for delivery from the vendor to the Contractor's pre-determined receiving location. The Contractor shall provide equipment and labor for off-loading, loading, and trucking as needed. Contractor is responsible for storing and securing all deliveries and insuring the completeness of the playground timber order prior to installation. Original packing slips from each shipment shall be

provided to the Engineer.

All installation of equipment shall adhere and conform to the installation specifications as provided by the playground timber manufacturer, and shall be further inspected by the Playground Construction Inspector following installation. Actual layout of playground timbers shall comply with the dimensions shown on the plans and be confirmed in the field by the Playground Construction Inspector. The playground timbers shall be installed at the correct elevations as specified on the plans. The Contractor shall field confirm playground timber placement does not encroach upon the play equipment fall zones as shown in the attached plans.

The Contractor shall contact the Parks Surveyor throughout installation to verify that playground timbers are installed at the correct horizontal and vertical location.

METHOD OF MEASUREMENT

Playground Border Timbers shall be measured per each playground timber as described above.

BASIS OF PAYMENT

Playground Border Timbers shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description.

BID ITEM # 90008: PLAYGROUND SURFACING - RUBBER MULCH

DESCRIPTION

This item shall include all necessary work, labor and incidentals required to receive, store, transport and distribute rubber mulch playground surfacing.

All playground surfacing rubber mulch shall be purchased by the City of Madison and delivered to one of two Madison locations. The rubber mulch shall be available at the City of Madison Goodman Maintenance Facility, 1402 Wingra Creek Parkway, or the Forest Hill Cemetery, 1 Speedway Road, depending upon available storage area. These facilities are open 7:30 am to 2:00 pm for Contractor pickup. The Contractor shall provide equipment and labor for loading, trucking and off-loading as needed. Contractor is responsible for securing all deliveries and insuring the completeness of the playground surfacing rubber mulch order prior to installation.

The playground surfacing shall be installed to the finished elevations as indicated on the plans. Minimum installed depth of rubber mulch is nine (9) inches.

Double handling, stockpiling and placing rubber mulch is included in this bid item.

METHOD OF MEASUREMENT

Playground Surfacing Rubber Mulch shall be measured by the cubic yard quantity as listed in the proposal page without measurement thereof.

BASIS OF PAYMENT

Playground Surfacing Rubber Mulch shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, labor, tools, equipment, and incidentals required to complete the work as set forth in the description.

BID ITEM # 90009: RELOCATE EXISTING BENCH

Work under this item shall include all work, materials, labor and incidentals necessary for the Contractor to dissemble, store and reassemble the existing green metal playground bench located near the basketball court at the open space off of Rustic Parkway at the south end of Highland Manor Mobile Home Park, to the location shown on the plans. Also include in this bid item is the removal/disposal of the concrete pad, topsoiling, seeding and matting the removed bench area.

METHOD OF MEASUREMENT

Relocate Existing Bench shall be measured per lump sum.

BASIS OF PAYMENT

Relocate Existing Bench shall be measured as described above and shall be paid for at the contract unit price which shall be full compensation for all work, materials, tools, equipment, labor, hauling, placement, disposal and incidentals required to complete the work as set forth in the description.

END OF SPECIAL PROVISIONS

SECTION E: BIDDERS ACKNOWLEDGEMENT

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Bidder must state a Unit Price and Total Bid for each item. The Total Bid for each item must be the product of quantity, by Unit Price. The Grand Total must be the sum of the Total Bids for the various items. In case of multiplication errors or addition errors, the Grand Total with corrected multiplication and/or addition shall determine the Grand Total bid for each contract. The Unit Price and Total Bid must be entered numerically in the spaces provided. All words and numbers shall be written in ink.

1. The undersigned having familiarized himself/herself with the Contract documents, including Advertisement for Bids, Instructions to Bidders, Form of Proposal, City of Madison Standard Specifications for Public Works Construction - 2014 Edition thereto, Form of Agreement, Form of Bond, and Addenda issued and attached to the plans and specifications on file in the office of the City Engineer, hereby proposes to provide and furnish all the labor, materials, tools, and expendable equipment necessary to perform and complete in a workmanlike manner the specified construction on this project for the City of Madison; all in accordance with the plans and specifications as prepared by the City Engineer, including Addenda to the Contract Nos. _____ through _____ issued thereto, at the prices for said work as contained in this proposal. (Electronic bids submittals shall acknowledge addendum under Section E and shall not acknowledge here)
2. If awarded the Contract, we will initiate action within seven (7) days after notification or in accordance with the date specified in the contract to begin work and will proceed with diligence to bring the project to full completion within the number of work days allowed in the Contract or by the calendar date stated in the Contract.
3. The undersigned Bidder or Contractor certifies that he/she is not a party to any contract, combination in form of trust or otherwise, or conspiracy in restraint of trade or commerce or any other violation of the anti-trust laws of the State of Wisconsin or of the United States, with respect to this bid or contract or otherwise.
4. I hereby certify that I have met the Bid Bond Requirements as specified in Section 102.5. *(IF BID BOND IS USED, IT SHALL BE SUBMITTED ON THE FORMS PROVIDED BY THE CITY. FAILURE TO DO SO MAY RESULT IN REJECTION OF THE BID).*
5. I hereby certify that all statements herein are made on behalf of _____ (name of corporation, partnership, or person submitting bid) a corporation organized and existing under the laws of the State of _____ a partnership consisting of _____; an individual trading as _____; of the City of _____ State of _____; that I have examined and carefully prepared this Proposal, from the plans and specifications and have checked the same in detail before submitting this Proposal; that I have fully authority to make such statements and submit this Proposal in (its, their) behalf; and that the said statements are true and correct.

_____
SIGNATURE

_____
TITLE, IF ANY

Sworn and subscribed to before me this
_____ day of _____, 20_____.

_____
(Notary Public or other officer authorized to administer oaths)
My Commission Expires _____
Bidders shall not add any conditions or qualifying statements to this Proposal.

SECTION F: DISCLOSURE OF OWNERSHIP & BEST VALUE CONTRACTING

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State of Wisconsin
Department of Workforce Development
Equal Rights Division
Labor Standards Bureau

Disclosure of Ownership

Notice required under Section 15.04(1)(m), Wisconsin Statutes. The statutory authority for the use of this form is prescribed in Sections 66.0903(12)(d) and 103.49(7)(d), Wisconsin Statutes. The use of this form is mandatory. The penalty for failing to complete this form is prescribed in Section 103.005(12), Wisconsin Statutes. Personal information you provide may be used for secondary purposes.

(1) On the date a contractor submits a bid to or completes negotiations with a state agency or local governmental unit, on a project subject to Section 66.0903 or 103.49, Wisconsin Statutes, the contractor shall disclose to such state agency or local governmental unit the name of any "other construction business", which the contractor, or a shareholder, officer or partner of the contractor, owns or has owned within the preceding three (3) years.

(2) The term "other construction business" means any business engaged in the erection, construction, remodeling, repairing, demolition, altering or painting and decorating of buildings, structures or facilities. It also means any business engaged in supplying mineral aggregate, or hauling excavated material or spoil as provided by Sections 66.0903(3), 103.49(2) and 103.50(2), Wisconsin Statutes.

(3) This form must ONLY be filed, with the state agency or local governmental unit that will be awarding the contract, if **both (A) and (B) are met**.

(A) The contractor, or a shareholder, officer or partner of the contractor:
(1) Owns at least a 25% interest in the "other construction business", indicated below, on the date the contractor submits a bid or completes negotiations.
(2) Or has owned at least a 25% interest in the "other construction business" at any time within the preceding three (3) years.

(B) The Wisconsin Department of Workforce Development (DWD) has determined that the "other construction business" has failed to pay the prevailing wage rate or time and one-half the required hourly basic rate of pay, for hours worked in excess of the prevailing hours of labor, to any employee at any time within the preceding three (3) years.

Other Construction Business

Not Applicable ☐

Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code
Name of Business			
Street Address or P O Box	City	State	Zip Code

I hereby state under penalty of perjury that the information, contained in this document, is true and accurate according to my knowledge and belief.

Print the Name of Authorized Officer	
Signature of Authorized Officer	Date Signed
Name of Corporation, Partnership or Sole Proprietorship	

Street Address or P O Box	City	State	Zip Code

If you have any questions call (608) 266-0028

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Best Value Contracting

1. The Contractor shall indicate the non-apprenticeable trades used on this contract.

_____

_____

2. Madison General Ordinance (M.G.O.), 33.07(7), does provide for some exemptions from the active apprentice requirement. Apprenticeable trades are those trades considered apprenticeable by the State of Wisconsin. Please check applicable box if you are seeking an exemption.

☐ Contractor has a total skilled workforce of four or less individuals in all apprenticeable trades combined.

☐ No available trade training program; The Contractor has been rejected by the only available trade training program, or there is no trade training program within 90 miles.

☐ Contractor is not using an apprentice due to having a journey worker on layoff status, provided the journey worker was employed by the contractor in the past six months.

☐ First-time Contractor on City of Madison Public Works contract requests a onetime exemption but intends to comply on all future contracts and is taking steps typical of a "good faith" effort.

☐ Contractor has been in business less than one year.

☐ Contractor doesn't have enough journeyman trade workers to qualify for a trade training program in that respective trade

3. The Contractor shall indicate on the following section which apprenticeable trades are to be used on this contract. Compliance with active apprenticeship, to the extent required by M.G.O. 33.07(7), shall be satisfied by documentation from an applicable trade training body; an apprenticeship contract with the Wisconsin Department of Workforce Development or a similar agency in another state; or the U.S Department of Labor. This documentation is required prior to the Contractor beginning work on the project site.

☐ The Contractor has reviewed the list and shall not use any apprenticeable trades on this project.

LIST APPRENTICABLE TRADES (check all that apply to your work to be performed on this contract)

- ☐ BRICKLAYER
- ☐ CARPENTER
- ☐ CEMENT MASON / CONCRETE FINISHER
- ☐ CEMENT MASON (HEAVY HIGHWAY)
- ☐ CONSTRUCTION CRAFT LABORER
- ☐ DATA COMMUNICATION INSTALLER
- ☐ ELECTRICIAN
- ☐ ENVIRONMENTAL SYSTEMS TECHNICIAN / HVAC SERVICE TECH/HVAC INSTALL / SERVICE
- ☐ GLAZIER
- ☐ HEAVY EQUIPMENT OPERATOR / OPERATING ENGINEER
- ☐ INSULATION WORKER (HEAT & FROST)
- ☐ IRON WORKER
- ☐ IRON WORKER (ASSEMBLER, METAL BLDGS)
- ☐ PAINTER & DECORATOR
- ☐ PLASTERER
- ☐ PLUMBER
- ☐ RESIDENTIAL ELECTRICIAN
- ☐ ROOFER & WATER PROOFER
- ☐ SHEET METAL WORKER
- ☐ SPRINKLER FITTER
- ☐ STEAMFITTER
- ☐ STEAMFITTER (REFRIGERATION)
- ☐ STEAMFITTER (SERVICE)
- ☐ TAPER & FINISHER
- ☐ TELECOMMUNICATIONS (VOICE, DATA & VIDEO) INSTALLER-TECHNICIAN
- ☐ TILE SETTER

SECTION G: BID BOND

KNOW ALL MEN BY THESE PRESENT, THAT _____ (a corporation of the State of _____) (individual), (partnership), hereinafter referred to as the "Principal") and _____, a corporation of the State of _____ (hereinafter referred to as the "Surety") and licensed to do business in the State of Wisconsin, are held and firmly bound unto the City of Madison, (hereinafter referred to as the "Obligee"), in the sum of five per cent (5%) of the amount of the total bid or bids of the Principal herein accepted by the Obligee, for the payment of which the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

The conditions of this obligation are such that, whereas the Principal has submitted, to the City of Madison a certain bid, including the related alternate, and substitute bids attached hereto and hereby made a part hereof, to enter into a contract in writing for the construction of:

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1. If said bid is rejected by the Obligee, then this obligation shall be void.

2. If said bid is accepted by the Obligee and the Principal shall execute and deliver a contract in the form specified by the Obligee (properly completed in accordance with said bid) and shall furnish a bond for his/her faithful performance of said contract, and for the payment of all persons performing labor or furnishing materials in connection therewith, and shall in all other respects perform the agreement created by the acceptance of said bid, then this obligation shall be void.

   If said bid is accepted by the Obligee and the Principal shall fail to execute and deliver the contract and the performance and payment bond noted in 2. above executed by this Surety, or other Surety approved by the City of Madison, all within the time specified or any extension thereof, the Principal and Surety agree jointly and severally to forfeit to the Obligee as liquidated damages the sum mentioned above, it being understood that the liability of the Surety for any and all claims hereunder shall in no event exceed the sum of this obligation as stated, and it is further understood that the Principal and Surety reserve the right to recover from the Obligee that portion of the forfeited sum which exceed the actual liquidated damages incurred by the Obligee.

   The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by an extension of the time within which the Obligee may accept such bid, and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and the Surety have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and these presents to be signed by their proper officers, on the day and year set forth below.

Seal

Principal	Date

By: _____

_____
Name of Surety

By: _____ _____
Date

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. _____ for the year _____, and appointed as attorney in fact with authority to execute this bid bond and the payment and performance bond referred to above, which power of attorney has not been revoked.

Date	Agent
	Address
	City, State and Zip Code
	Telephone Number

NOTE TO SURETY & PRINCIPAL

The bid submitted which this bond guarantees shall be rejected if the following instrument is not attached to this bond:

Power of Attorney showing that the agent of Surety is currently authorized to execute bonds on behalf of the Surety, and in the amounts referenced above.

Certificate of Biennial Bid Bond

TIME PERIOD - VALID (FROM/TO)
NAME OF SURETY
NAME OF CONTRACTOR
CERTIFICATE HOLDER City of Madison, Wisconsin

This is to certify that a biennial bid bond issued by the above-named Surety is currently on file with the City of Madison.

This certificate is issued as a matter of information and conveys no rights upon the certificate holder and does not amend, extend or alter the coverage of the biennial bid bond.

Cancellation: Should the above policy be cancelled before the expiration date, the issuing Surety will give thirty (30) days written notice to the certificate holder indicated above.

Signature of Authorized Contractor Representative

Date

SECTION H: AGREEMENT

THIS AGREEMENT made this _____ day of _____ in the year Two Thousand and Fifteen between _____ hereinafter called the Contractor, and the City of Madison, Wisconsin, hereinafter called the City.

WHEREAS, the Common Council of the said City of Madison under the provisions of a resolution adopted _____, and by virtue of authority vested in the said Council, has awarded to the Contractor the work of performing certain construction.

NOW, THEREFORE, the Contractor and the City, for the consideration hereinafter named, agree as follows:

1. **Scope of Work.** The Contractor shall, perform the construction, execution and completion of the following listed complete work or improvement in full compliance with the Plans, Specifications, Standard Specifications, Supplemental Specifications, Special Provisions and contract; perform all items of work covered or stipulated in the proposal; perform all altered or extra work; and shall furnish, unless otherwise provided in the contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to the prosecution and completion of the work or improvements:

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2. **Completion Date/Contract Time.** Construction work must begin within seven (7) calendar days after the date appearing on mailed written notice to do so shall have been sent to the Contractor and shall be carried on at a rate so as to secure full completion SEE SPECIAL PROVISIONS, the rate of progress and the time of completion being essential conditions of this Agreement.

3. **Contract Price.** The City shall pay to the Contractor at the times, in the manner and on the conditions set forth in said specifications, the sum of _____($_____) Dollars being the amount bid by such Contractor and which was awarded to him/her as provided by law.

4. **Wage Rates for Employees of Public Works Contractors**

   General and Authorization. The Contractor shall compensate its employees at the prevailing wage rate in accordance with section 66.0903, Wis. Stats., DWD 290 of the Wisconsin Administrative Code and as hereinafter provided unless otherwise noted in Section D: Special Provisions, Subsection 102.10 – Minimum Rate of Wage Scale.

   "Public Works" shall include building or work involving the erection, construction, remodeling, repairing or demolition of buildings, parking lots, highways, streets, bridges, sidewalks, street lighting, traffic signals, sanitary sewers, water mains and appurtenances, storm sewers, and the grading and landscaping of public lands.

   "Building or work" includes construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work, except for the delivery of mineral aggregate such as sand, gravel, bituminous asphaltic concrete or stone which is incorporated into the work under contract with the City by depositing the material directly in final place from transporting vehicle.

   "Erection, construction, remodeling, repairing" means all types of work done on a particular building or work at the site thereof in the construction or development of the project, including without limitation, erecting, construction, remodeling, repairing, altering, painting, and decorating, the transporting of materials and supplies to or from the building or work done by the employees of the Contractor, Subcontractor, or Agent thereof, and the manufacturing or furnishing of

materials, articles, supplies or equipment on the site of the building or work, by persons employed by the Contractor, Subcontractor, or Agent thereof.

"Employees working on the project" means laborers, workers, and mechanics employed directly upon the site of work.

"Laborers, Workers, and Mechanics" include pre-apprentices, helpers, trainees, learners and properly registered and indentured apprentices but exclude clerical, supervisory, and other personnel not performing manual labor.

Establishment of Wage Rates. The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate is attached hereto.

Workforce Profile. The Contractor shall, at the time of signature of the contract, notify the City Engineer in writing of the names and classifications of all the employees of the Contractor, Subcontractors, and Agents proposed for the work. In the alternative, the Contractor shall submit in writing the classifications of all the employees of the Contractor, Subcontractors and Agents and the total number of hours estimated in each classification for the work. This workforce profile(s) shall be reviewed by the City Engineer who may, within ten (10) days, object to the workforce profile(s) as not being reflective of that which would be required for the work. The Contractor may request that the workforce profile, or a portion of the workforce profile, be submitted after the signature of the contract but at least ten (10) days prior to the work commencing. Any costs or time loss resulting from modifications to the workforce profile as a result of the City Engineer's objections shall be the responsibility of the Contractor.

Payrolls and Records. The Contractor shall keep weekly payroll records setting forth the name, address, telephone number, classification, wage rate and fringe benefit package of all the employees who work on the contract, including the employees of the Contractor's subcontractors and agents. Such weekly payroll records must include the required information for all City contracts and all other contracts on which the employee worked during the week in which the employee worked on the contract. The Contractor shall also keep records of the individual time each employee worked on the project and for each day of the project. Such records shall also set forth the total number of hours of overtime credited to each such employee for each day and week and the amount of overtime pay received in that week. The records shall set forth the full weekly wages earned by each employee and the actual hourly wage paid to the employee.

The Contractor shall submit the weekly payroll records, including the records of the Contractor's subcontractors and agents, to the City Engineer for every week that work is being done on the contract. The submittal shall be within twenty-one (21) calendar days of the end of the Contractor's weekly pay period.

Employees shall receive the full amounts accrued at the time of the payment, computed at rates not less than those stated in the prevailing wage rate and each employee's rate shall be determined by the work that is done within the trade or occupation classification which should be properly assigned to the employee.

An employee's classification shall not be changed to a classification of a lesser rate during the contract. If, during the term of the contract, an employee works in a higher pay classification than the one which was previously properly assigned to the employee, then that employee shall be considered to be in the higher pay classification for the balance of the contract, receive the appropriate higher rate of pay, and she/he shall not receive a lesser rate during the balance of the

contract. For purposes of clarification, it is noted that there is a distinct difference between working in a different classification with higher pay and doing work within a classification that has varying rates of pay which are determined by the type of work that is done within the classification. For example, the classification “Operating Engineer” provides for different rates of pay for various classes of work and the Employer shall compensate an employee classified as an “Operating Engineer” based on the highest class of work that is done in one day. Therefore, an “Operating Engineer’s” rate may vary on a day to day basis depending on the type of work that is done, but it will never be less than the base rate of an “Operating Engineer”. Also, as a matter of clarification, it is recognized that an employee may work in a higher paying classification merely by chance and without prior intention, calculation or design. If such is the case and the performance of the work is truly incidental and the occurrence is infrequent, inconsequential and does not serve to undermine the single classification principle herein, then it may not be required that the employee be considered to be in the higher pay classification and receive the higher rate of pay for the duration of the contract. However, the Contractor is not precluded or prevented from paying the higher rate for the limited time that an employee performs work that is outside of the employee’s proper classification.

Questions regarding an employee’s classification, rate of pay or rate of pay within a classification, shall be resolved by reference to the established practice that predominates in the industry and on which the trade or occupation rate/classification is based. Rate of pay and classification disputes shall be resolved by relying upon practices established by collective bargaining agreements and guidelines used in such determination by appropriate recognized trade unions operating within the City of Madison.

The Contractor, its Subcontractors and Agents shall submit to interrogation regarding compliance with the provisions of this ordinance.

Mulcting of the employees by the Contractor, Subcontractor, and Agents on Public Works contracts, such as by kickbacks or other devices, is prohibited. The normal rate of wage of the employees of the Contractor, Subcontractor, and Agents shall not be reduced or otherwise diminished as a result of payment of the prevailing wage rate on a public works contract.

Hourly contributions. Hourly contributions shall be determined in accordance with the prevailing wage rate and with DWD. 290.01(10), Wis. Admin. Code.

Apprentices and Subjourney persons. Apprentices and sub journeypersons performing work on the project shall be compensated in accordance with the prevailing wage rate and with DWD 290.02, and 290.025, respectively, Wis. Admin. Code.

Straight Time Wages. The Contractor may pay straight time wages as determined by the prevailing wage rate and DWD 290.04, Wis. Admin. Code.

Overtime Wages. The Contractor shall pay overtime wages as required by the prevailing wage rate and DWD 290.05, Wis. Admin. Code.

Posting of Wage Rates and Hours. A clearly legible copy of the prevailing wage rate, together with the provisions of Sec. 66.0903(10)(a) and (11)(a), Wis. Stats., shall be kept posted in at least one conspicuous and easily accessible place at the project site by the Contractor and such notice shall remain posted during the full time any laborers, workers or mechanics are employed on the contract.

Evidence of Compliance by Contractor. Upon completion of the contract, the Contractor shall file with the Department of Public Works an affidavit stating:

a. That the Contractor has complied fully with the provisions and requirements of Sec. 66.0903(3), Wis. Stats., and Chapter DWD 290, Wis. Admin. Code; the Contractor has received evidence of compliance from each of the agents and subcontractors; and the

names and addresses of all of the subcontractors and agents who worked on the contract.

b. That full and accurate records have been kept, which clearly indicate the name and trade or occupation of every laborer, worker or mechanic employed by the Contractor in connection with work on the project. The records shall show the number of hours worked by each employee and the actual wages paid therefore; where these records will be kept and the name, address and telephone number of the person who will be responsible for keeping them. The records shall be retained and made available for a period of at least three (3) years following the completion of the project of public works and shall not be removed without prior notification to the municipality.

Failure to Comply with the Prevailing Wage Rate. If the Contractor fails to comply with the prevailing wage rate, she/he shall be in default on the contract. In addition, if DWD finds that a contractor or subcontractor violated the prevailing wage law, DWD will assess liquidated damages of 100% of the wages owed to employees.

Establishment of Wage Rates. The Department of Public Works shall periodically obtain a current schedule of prevailing wage rates from DWD. The schedule shall be used to establish the City of Madison Prevailing Wage Rate Schedule for Public Works Construction (prevailing wage rate). The Department of Public Works may include known increases to the prevailing wage rate which can be documented and are to occur on a future specific date. The prevailing wage rate shall be included in public works contracts subsequently negotiated or solicited by the City. Except for known increases contained within the schedule, the prevailing wage rate shall not change during the contract. The approved wage rate and DWD prevailing wage requirements are attached hereto as Sec. I of the contract.

5. **Affirmative Action.** In the performance of the services under this Agreement the Contractor agrees not to discriminate against any employee or applicant because of race, religion, marital status, age, color, sex, disability, national origin or ancestry, income level or source of income, arrest record or conviction record, less than honorable discharge, physical appearance, sexual orientation, gender identity, political beliefs, or student status. The Contractor further agrees not to discriminate against any subcontractor or person who offers to subcontract on this contract because of race, religion, color, age, disability, sex, sexual orientation, gender identity or national origin.

The Contractor agrees that within thirty (30) days after the effective date of this agreement, the Contractor will provide to the City Affirmative Action Division certain workforce utilization statistics, using a form to be furnished by the City.

If the contract is still in effect, or if the City enters into a new agreement with the Contractor, within one year after the date on which the form was required to be provided, the Contractor will provide updated workforce information using a second form, also to be furnished by the City. The second form will be submitted to the City Affirmative Action Division no later than one year after the date on which the first form was required to be provided.

The Contractor further agrees that, for at least twelve (12) months after the effective date of this contract, it will notify the City Affirmative Action Division of each of its job openings at facilities in Dane County for which applicants not already employees of the Contractor are to be considered. The notice will include a job description, classification, qualifications and application procedures and deadlines. The Contractor agrees to interview and consider candidates referred by the Affirmative Action Division if the candidate meets the minimum qualification standards established by the Contractor, and if the referral is timely. A referral is timely if it is received by the Contractor on or before the date started in the notice.

Articles of Agreement
Article I

The Contractor shall take affirmative action in accordance with the provisions of this contract to insure that applicants are employed, and that employees are treated during employment without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national original and that the employer shall provide harassment free work environment for the realization of the potential of each employee. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation and selection for training including apprenticeship insofar as it is within the control of the Contractor. The Contractor agrees to post in conspicuous places available to employees and applicants notices to be provided by the City setting out the provisions of the nondiscrimination clauses in this contract.

Article II

The Contractor shall in all solicitations or advertisements for employees placed by or on behalf of the Contractors state that all qualified or qualifiable applicants will be employed without regard to race, religion, color, age, marital status, disability, sex, sexual orientation, gender identity or national origin.

Article III

The Contractor shall send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding a notice to be provided by the City advising the labor union or worker's representative of the Contractor's equal employment opportunity and affirmative action commitments. Such notices shall be posted in conspicuous places available to employees and applicants for employment.

Article V

The Contractor agrees that it will comply with all provisions of the Affirmative Action Ordinance of the City of Madison, including the contract compliance requirements. The Contractor agrees to submit the model affirmative action plan for public works contractors in a form approved by the Affirmative Action Division Manager.

Article VI

The Contractor will maintain records as required by Section 39.02(9)(f) of the Madison General Ordinances and will provide the City Affirmative Action Division with access to such records and to persons who have relevant and necessary information, as provided in Section 39.02(9)(f). The City agrees to keep all such records confidential, except to the extent that public inspection is required by law.

Article VII

In the event of the Contractor's or subcontractor's failure to comply with the Equal Employment Opportunity and Affirmative Action Provisions of this contract or Section 39.03 and 39.02 of the Madison General Ordinances, it is agreed that the City at its option may do any or all of the following:

1. Cancel, terminate or suspend this Contract in whole or in part.

2. Declare the Contractor ineligible for further City contracts until the Affirmative Action requirements are met.

3. Recover on behalf of the City from the prime Contractor 0.5 percent of the contract award price for each week that such party fails or refuses to comply, in the nature of liquidated damages, but not to exceed a total of five percent (5%) of the contract price, or five thousand dollars ($5,000), whichever is less. Under public works contracts, if a subcontractor is in noncompliance, the City may recover liquidated damages from the prime Contractor in the manner described above. The preceding sentence shall not be construed to prohibit a prime Contractor from recovering the amount of such damage from the non-complying subcontractor.

Article VIII

The Contractor shall include the above provisions of this contract in every subcontract so that such provisions will be binding upon each subcontractor. The Contractor shall take such action with respect to any subcontractor as necessary to enforce such provisions, including sanctions provided for noncompliance.

Article IX

The Contractor shall allow the maximum feasible opportunity to small business enterprises to compete for any subcontracts entered into pursuant to this contract. (In federally funded contracts the terms “DBE, MBE and WBE” shall be substituted for the term “small business” in this Article.)

6. Substance Abuse Prevention Program Required. Prior to commencing work on the Contract, the Contractor, and any Subcontractor, shall have in place a written program for the prevention of substance abuse among its employees as required under Wis. Stat. Sec. 103.503.

HIGHLAND MANOR PARK IMPROVEMENTS
CONTRACT NO. 7466

IN WITNESS WHEREOF, the Contractor has hereunto set his/her hand and seal and the City has caused these presents to be sealed with its corporate seal and to be subscribed by its Mayor and City Clerk the day and year first above written.

Countersigned:

Company Name

Witness Date

President Date

Witness Date

Secretary Date

CITY OF MADISON, WISCONSIN

Provisions have been made to pay the liability that will accrue under this contract.

Approved as to form:

Finance Director

City Attorney

Signed this _____ day of _____, 20_____

Witness

Mayor Date

Witness

City Clerk Date

SECTION I: PAYMENT AND PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that we _____
as principal, and
_____
Company of _____as surety, are held and firmly bound unto the City of Madison, Wisconsin, in the sum of _____($_____) Dollars, lawful money of the United States, for the payment of which sum to the City of Madison, we hereby bind ourselves and our respective executors and administrators firmly by these presents.

The condition of this Bond is such that if the above bounden shall on his/her part fully and faithfully perform all of the terms of the Contract entered into between him/herself and the City of Madison for the construction of:

HIGHLAND MANOR PARK IMPROVEMENTS
CONTRACT NO. 7466

in Madison, Wisconsin, and shall pay all claims for labor performed and material furnished in the prosecution of said work, and save the City harmless from all claims for damages because of negligence in the prosecution of said work, and shall save harmless the said City from all claims for compensation (under Chapter 102, Wisconsin Statutes) of employees and employees of subcontractor, then this Bond is to be void, otherwise of full force, virtue and effect.

Signed and sealed this _____day of _____

Countersigned:

_____
Company Name (Principal)

_____ _____
Witness President Seal

_____
Secretary

Approved as to form:

_____
Surety Seal
☐ Salary Employee ☐ Commission

_____ By _____
City Attorney Attorney-in-Fact

This certifies that I have been duly licensed as an agent for the above company in Wisconsin under License No. _____ for the year 20_____, and appointed as attorney-in-fact with authority to execute this payment and performance bond which power of attorney has not been revoked.

_____ _____
Date Agent Signature

SECTION J: PREVAILING WAGE RATES

Not applicable

SECTION K: APPENDIX 1:

MANUFACTURERS' PLAYGROUND EQUIPMENT INSTALLATION INSTRUCTIONS

Notes for all instructions, installation time estimates, equipment perspectives and footing layouts:

1. Equipment perspectives provided by manufacturer do not reflect correct placement of play structure and swings in field. Refer to site plans for placement of components on site. Perspectives are provided for reference only.

2. Installation hours have been provided by manufacturer for information only and are not to be assumed to be the actual time required to install parts. The Contractor will not be compensated to discrepancies between estimated install hours and the Contractor's actual install hours.

3. Footing plans provided by the manufacturer may not reflect the correct placement of the play structure relative to the placement of swings. Refer to site plans for placement of components on site. Footing plans are provided for reference only.

Highland Manor Park

Madison, WI

Option #1

View A

View B

LEE
RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT

P.O. Box 93
Cambridge, WI 53523

Phone: (800) 775-8937
Fax: (608) 423-7655

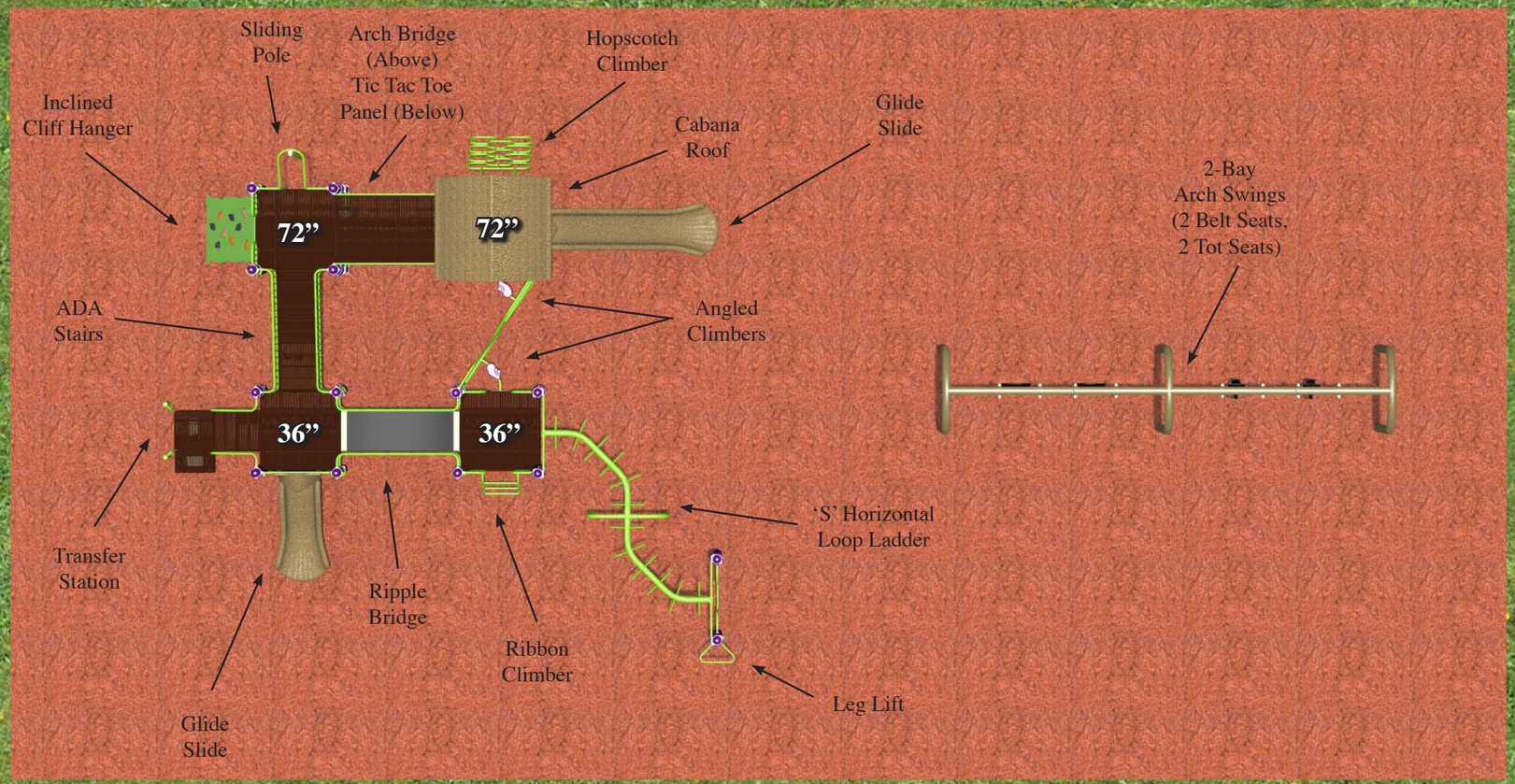
email:
info@leerecreation.com

www.leerecreation.com

Highland Manor Park

Madison, WI

Option #1



LEE RECREATION LLC
PLAYGROUND & RECREATION EQUIPMENT

809 Bluebird Pass
Cambridge, WI 53523

TEL: 800-775-8937
FAX: 608-423-7655
www.leerecreation.com

Complies With:

- ☒ ASTM F1487-01
- ☒ ASTM F1487-98
- ☒ CPSC #325
- ☒ ADA-ADAAG

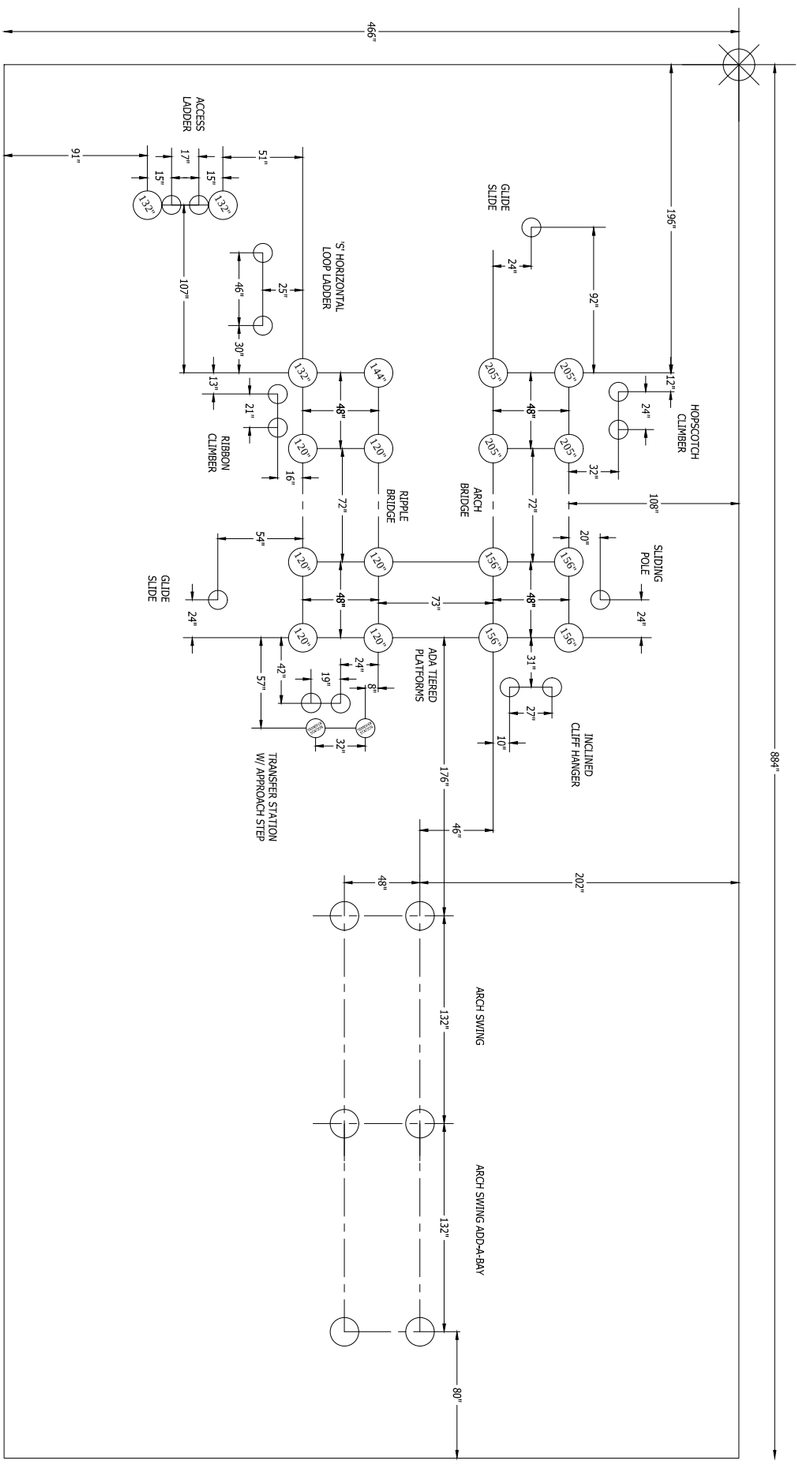
Design Number: PW092214
Use Zone:
# of Users: 51
# of Active Play Events: 16
Age: 5 to 12

Colors Shown:

- Plum
- Lime
- Sand
- Brownstone

PLAYWORLD SYSTEMS®
The world needs play.®

*Playground Supervision Required



PROJECT NO:	REV:	DATE:
Highland 1-2.LEE	-	19-DEC-14
SYSTEM:		SCALE:
PLAYMAKERS		1/8" = 1'-0"
FOOTING PLAN		DRAWN BY: A. BOWER

LEE RECREATION
809 Bluebird Pass
Cambridge, WI 53523

PLAYWORLD™

FOOTING LEGEND

= COMPONENT FOOTING (DETAIL 3)

= SPIRAL SLIDE CENTER POST FOOTING (DETAIL1)

= SUPPORT POST FOOTING (DETAIL 1 or 4)
(112" (2845mm) INDICATES POST LENGTH)

= CANTILEVER, "T" POST, AND COMPONENT POST FOOTING (DETAIL 2)
(ZZCH1850 INDICATES PART NUMBER)

= GROUND ZERO POST FOOTING (DETAIL 2)
(144" (3658mm) INDICATES POST LENGTH)

HIGHLAND 1-2

Highland Manor

Design Number: 1 - Bill Of Material

Ref. No.	Part No.	Description	Quantity
	Posts		
1	ZZPM0016A	5in OD X 120in ALUMINUM POST W/ RIVETED CAP	5
2	ZZPM0026A	5in OD X 132in ALUMINUM POST W/ RIVETED CAP	4
3	ZZPM0036A	5in OD X 144in ALUMINUM POST W/ RIVETED CAP	1
4	ZZPM0046A	5in OD X 156in ALUMINUM POST W/ RIVETED CAP	4
5	ZZPM0079A	5in OD x 205in ALUMINUM POST W/O CAP	4
	Decks & Kick Plates		
6	ZZPM0616	SQUARE COATED DECK ASSEMBLY	4
	ADA Items		
7	ZZPM2007	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	1
8	ZZUN2019	APPROACH STEP FOR TRANSFER STATION	1
	Slides		
9	ZZPM2696	GLIDE SLIDE (72in DECK)	1
10	ZZPM3127	GLIDE SLIDE (36in DECK)	1
11	ZZPM8090	SLIDING POLE (72in DECK)	1
	Activity Panels		
12	ZZPM4350	TIC-TAC-TOE ACTIVITY WALL	1
	Climbers		
13	ZZPM6989	INCLINED CLIFF HANGER (72in DECK)	1
14	ZZPM7179	ANGLED CLIMBER SMALL (36in DECK)	1
15	ZZPM7196	ANGLED CLIMBER LARGE (72in DECK)	1
16	ZZPM8280	HOPSCOTCH CLIMBER (72in DECK)	1
17	ZZPM8289	RIBBON CLIMBER (36in DECK)	1
	Overhead Events		
18	ZZPM5770	LEG LIFT	1
19	ZZPM5830	C & S HORIZONTAL LOOP LADDER	1
20	ZZPM5970	OVERHEAD EVENT ACCESS LADDER (36in DECK)	1
	Bridges		
21	ZZPM6590	6ft ARCH BRIDGE	1
22	ZZPM8480	6ft RIPPLE BRIDGE	1
	Roofs & Arches		
23	ZZPM9846	CABANA ROOF	1
	Stairs and Ladders		
24	ZZPM9177	36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	1

Highland Manor

Design Number: 1 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
1	ZZXX0260	2	BELT SEAT W/SILVER SHIELD CHAIN FOR 8ft TOP RAIL	Certified	17.60			108	2	0.50	0.00	2
2	ZZXX0265	2	INFANT SEAT W/SILVER SHIELD FOR 8ft TOP RAIL	Certified	22.62			179	2	0.50	0.00	2
3	ZZXX0287	1	5in OD 2-UNIT ALUMINUM ARCH SWING W-8ft TOP RAIL	Certified	213.00			1,166	0	3.00	0.52	0
4	ZZXX0370	1	5in OD ALUMINUM ARCH SWING 2-UNIT ADD-A-BAY	Certified	145.40			773	0	3.00	0.26	0
5	ZZPM0016A	5	5in OD X 120in ALUMINUM POST W/ RIVETED CAP	Certified	147.05			548	0	5.00	0.65	0
6	ZZPM0026A	4	5in OD X 132in ALUMINUM POST W/ RIVETED CAP	Certified	136.84			515	0	4.00	0.52	0
7	ZZPM0036A	1	5in OD X 144in ALUMINUM POST W/ RIVETED CAP	Certified	35.41			129	0	1.00	0.13	0
8	ZZPM0046A	4	5in OD X 156in ALUMINUM POST W/ RIVETED CAP	Certified	149.24			551	0	4.00	0.52	0
9	ZZPM0079A	4	5in OD x 205in ALUMINUM POST W/O CAP	Certified	191.24			749	0	4.00	0.52	0
10	ZZPM0616	4	SQUARE COATED DECK ASSEMBLY	Certified	361.44			882	16	4.00	0.00	0
11	ZZPM2007	1	TRANSFER STATION w/TALL GUARDRAIL (36in DECK)	Certified	155.24			329	2	2.00	0.09	0
12	ZZUN2019	1	APPROACH STEP FOR TRANSFER STATION	Certified	35.83			72	1	1.00	0.04	0
13	ZZPM2696	1	GLIDE SLIDE (72in DECK)	Certified	163.44			678	2	2.00	0.03	1
14	ZZPM3127	1	GLIDE SLIDE (36in DECK)	Certified	111.54			399	2	2.00	0.03	1
15	ZZPM8090	1	SLIDING POLE (72in DECK)	Certified	71.37			178	1	1.00	0.03	1
16	ZZPM4350	1	TIC-TAC-TOE ACTIVITY WALL	Certified	59.40			388	0	0.50	0.00	0
17	ZZPM6989	1	INCLINED CLIFF HANGER (72in DECK)	Certified	178.50			707	2	2.50	0.06	1
18	ZZPM7179	1	ANGLED CLIMBER SMALL (36in DECK)	Certified	73.03			201	2	1.00	0.00	1
19	ZZPM7196	1	ANGLED CLIMBER LARGE (72in DECK)	Certified	81.33			213	2	1.00	0.00	1
20	ZZPM8280	1	HOPSCOTCH CLIMBER (72in DECK)	Certified	101.06			186	2	2.00	0.06	1
21	ZZPM8289	1	RIBBON CLIMBER (36in DECK)	Certified	51.98			126	2	1.50	0.06	1

Highland Manor

Design Number: 1 - Compliance and Technical Data
Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events
22	ZZPM5770	1	LEG LIFT	Certified	7.20			33	1	0.50	0.00	1
23	ZZPM5830	1	C & S HORIZONTAL LOOP LADDER	Certified	198.08			464	2	2.50	0.06	1
24	ZZPM5970	1	OVERHEAD EVENT ACCESS LADDER (36in DECK)	Certified	26.16			77	1	1.50	0.06	0
25	ZZPM6590	1	6ft ARCH BRIDGE	Certified	205.29			445	3	1.50	0.00	1
26	ZZPM8480	1	6ft RIPPLE BRIDGE	Certified	162.32			623	4	2.00	0.00	1
27	ZZPM9846	1	CABANA ROOF	Certified	123.05			527	0	0.50	0.00	0
28	ZZPM9177	1	36in ACCESSIBLE STEPPED PLATFORM (DECK TO DECK)	Certified	286.99			640	2	1.50	0.00	0
				Totals:	**3,511.65**	**1,089**	**816**	**11,885**	**51**	**55.50**	**3.64**	**16**
					1,580.24 Kg	**490 Kg**	**367 Kg**	**12 Metric Tons**			**2.77 m3**	

Highland Manor

Design Number: 1 - Compliance and Technical Data

Reference Document: ASTM F1487

Ref. No.	Part No.	Qty.	Description	Unit ASTM Status	Total Weight (lbs)	Pre-Consumer Recycled Content (lbs)	Post-Consumer Recycled Content (lbs)	CO2e Footprint (kgs)	Users	Install Hours	Concrete (Yds3)	Active Play Events

ASTM F1487

The lay-out for this custom playscape, design number 1, has been configured to meet the requirements of the ASTM F1487 standard. In addition, each of the above components listed as "Certified" have been tested and are IPEMA certified. Components listed as "Not Applicable" do not fall within the scope of the ASTM F1487 standard and have not been tested. IPEMA certification can be verified on the IPEMA website, www.ipema.org. In the interest of playground safety, IPEMA provides a Third Party Certification Service which validates compliance.

2010 ADA Standards for Accessible Design

The lay-out was also designed to meet the 2010 Standards published 15-Sep-2010, by the Department of Justice when installed over a properly maintained surfacing material that is in compliance with ASTM F1951 "Accessibility of Surface Systems Under and Around Playground Equipment" as well as ASTM F1292, "Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment", appropriate for the fall height of the structure.

Installation Times

Installation times are based on one experienced installer. A crew of three experienced individuals can perform the installation within the given time, each member working 1/3 of the given hours. [Eg. Installation Time = 30 hours. For a crew of three, each member will work 10 hours on the installation for a total of 30 hours on the project.]

Carbon Footprint

The CO2e (carbon footprint given in Kilograms and Metric Tons) listed above is a measure of the environmental impact this play structure represents from harvesting raw materials to the time it leaves our shipping dock. Playworld Systems nurtures a total corporate culture that is focused on eliminating carbon producing processes and products, reducing our use of precious raw materials, reusing materials whenever possible and recycling materials at every opportunity. Playworld Systems elected to adopt the Publicly Available Specification; PAS 2050 as published by the British Standards Institute and sponsored by Defra and the Carbon Trust. The PAS 2050 has gained international acceptance as a specification that measures the greenhouse gas emissions in services and goods throughout their entire life cycle.

Pre-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was captured as waste and diverted from landfill during an initial manufacturing process and is being redirected to a separate manufacturing process to become a different product. E.g. 100% of our Aluminum Tubing is made from captured waste material during the manufacturing process of extruded Aluminum products such as rods, flat bars and H-channels.

Post-Consumer Recycle Content

A measurement, in pounds, that qualifies the amount of material that was once another product that has completed its lifecycle and has been diverted from a landfill as a solid waste through recycling and is now being used in a Playworld Systems' product. E.g. **20% to 40% of the steel in our steel tubing and sheet steel have been diverted from landfills. Automobiles are scrapped and recyclable steel is purchased by the steel mill that produces our raw product.

** The amount of Post-Consumer recycled steel fluctuates daily based on the availability of the recycled steel.

Installation Instructions

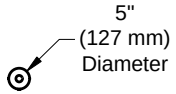
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

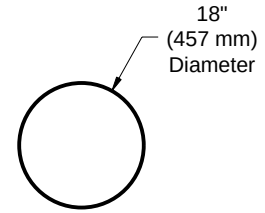
Assembly View *(representative model)*

Installation Preparation

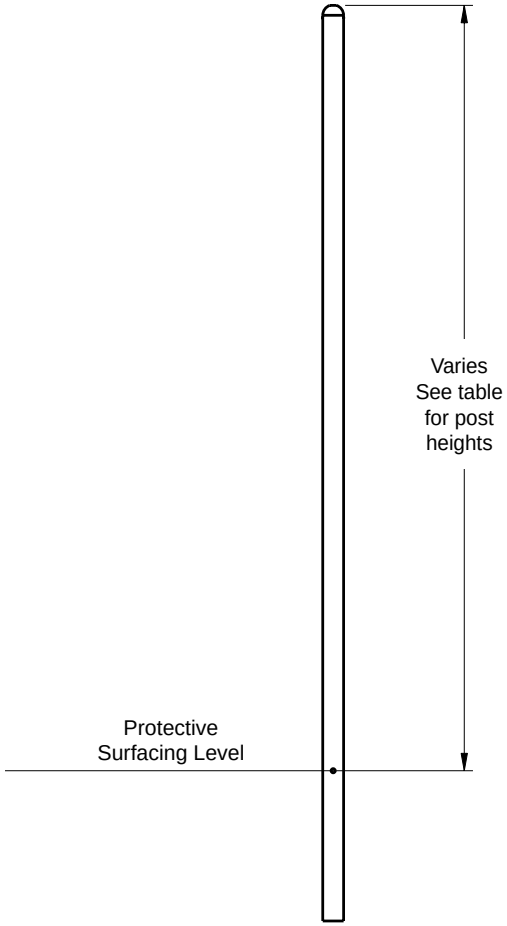
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1 man-hour
Weight: ..... (refer to table on the next page)
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

Top View





Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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__**Step 3:** Excavate footings as shown in the **Footing Details**.

__**Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.
Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__**Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1

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Installation Instructions

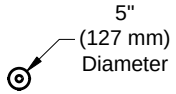
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

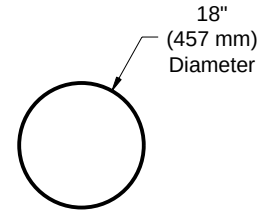
Assembly View *(representative model)*

Installation Preparation

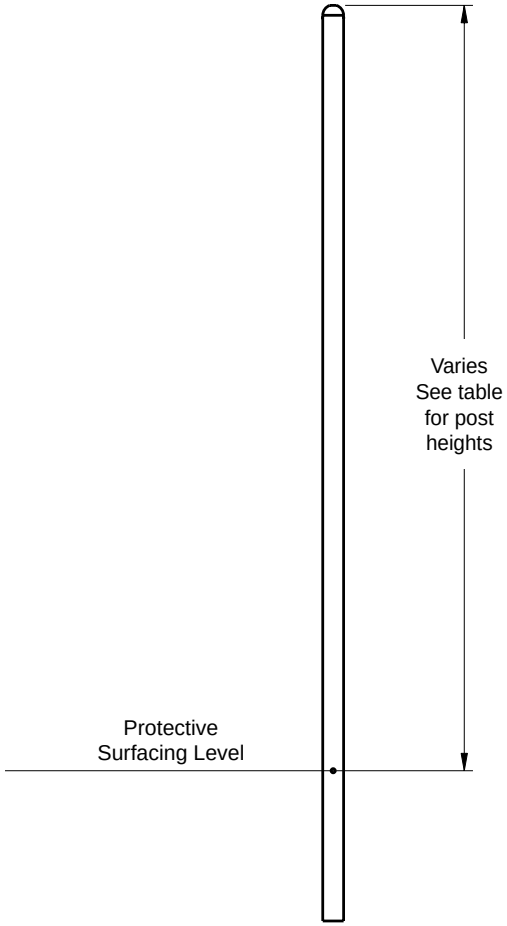
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1 man-hour
Weight: ..... (refer to table on the next page)
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

Top View





Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

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__**Step 3:** Excavate footings as shown in the **Footing Details**.

__**Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.
Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__**Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1

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Installation Instructions

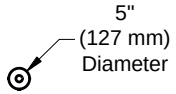
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

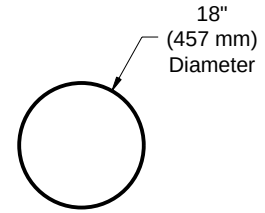
Assembly View *(representative model)*

Installation Preparation

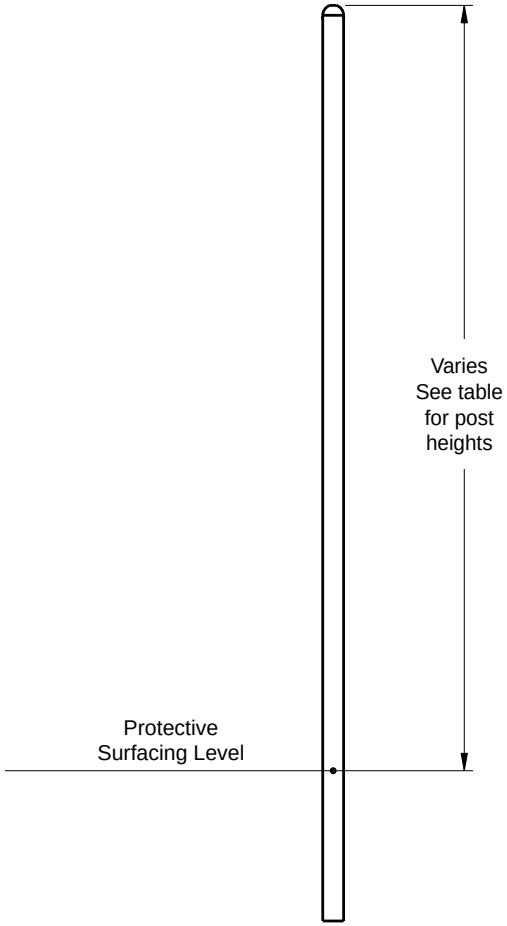
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1 man-hour
Weight: ..... (refer to table on the next page)
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

Top View





Footing Diagram



Elevation View

Model	Post Height	Weight
ZZPM0006A	96" (2438 mm)	25 lbs. (11,4 kg)
ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
ZZPM0036A	144" (3658 mm)	35,4 lbs. (16,1 kg)
ZZPM0046A	156" (3962 mm)	37.3 lbs. (17 kg)
ZZPM0056A	168" (4267 mm)	40.4 lbs. (18,2 kg)
ZZPM0066A	180" (4623 mm)	43 lbs. (19,5 kg)
ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
ZZPM0128A	192" (4877 mm)	45 lbs. (20,4 kg)
ZZPM0266A	217" (5512 mm)	42.5 lbs. (19,3 kg)
ZZPM0268A	229" (5817 mm)	45 lbs. (20,4 kg)

__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

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Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__**Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1

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Installation Instructions

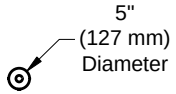
Playmakers® Models PM0006A, PM0008A, PM0016A, PM0026A, PM0036A, PM0046A, PM0056A, PM0066A, PM0078A, PM0128A, PM0266A, PM0268A
Aluminum Support Post w/ Cap
96 in. (2438 mm) to 229 in. (5817 mm)

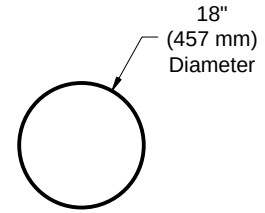
Assembly View *(representative model)*

Installation Preparation

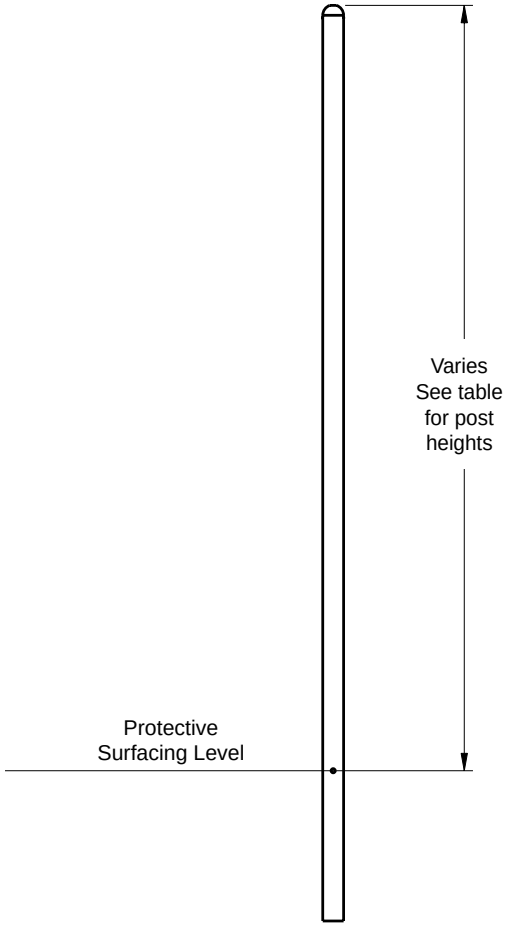
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1 man-hour
Weight: ..... (refer to table on the next page)
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

Top View





Footing Diagram



Elevation View

Model	Post Height	Weight
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ZZPM0008A	108" (2743 mm)	27.4 lbs. (12,3 kg)
ZZPM0016A	120" (3048 mm)	29.4 lbs. (13,2 kg)
ZZPM0026A	132" (3353 mm)	34.2 lbs. (15,5 kg)
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ZZPM0078A	205" (5207 mm)	49 lbs. (22,3 kg)
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Final Details.

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PM0006A - ALUMINUM SUPPORT POST w/ CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
CAP5007	POST - 5" O.D. x 96" ALUMINUM w/ CAP & LBL AT 36"	1

PM0008A - ALUMINUM SUPPORT POST w/ CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
CAP5009	POST - 5" O.D. x 108" ALUMINUM w/ CAP & LBL AT 36"	1

PM0016A - ALUMINUM SUPPORT POST w/ CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
CAP5011	POST - 5" O.D. x 120" ALUMINUM w/ CAP & LBL AT 36"	1

PM0026A - ALUMINUM SUPPORT POST w/ CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
CAP5013	POST - 5" O.D. x 132" ALUMINUM w/ CAP & LBL AT 36"	1

PM0036A - ALUMINUM SUPPORT POST w/ CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
CAP5015	POST - 5" O.D. x 144" ALUMINUM w/ CAP & LBL AT 36"	1

PM0046A - ALUMINUM SUPPORT POST w/ CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
CAP5017	POST - 5" O.D. x 156" ALUMINUM w/ CAP & LBL AT 36"	1

PM0056A - ALUMINUM SUPPORT POST w/ CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
CAP5019	POST - 5" O.D. x 168" ALUMINUM w/ CAP & LBL AT 36"	1

PM0066A - ALUMINUM SUPPORT POST w/ CAP 180 in. (4623 mm)

PART NO.	DESCRIPTION	QTY.
CAP5021	POST - 5" O.D. x 180" ALUMINUM w/ CAP & LBL AT 36"	1

PM0078A - ALUMINUM SUPPORT POST w/ CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
CAP5023	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0128A - ALUMINUM SUPPORT POST w/ CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
CAP5063	POST - 5" O.D. x 205" ALUMINUM w/ CAP & LBL AT 36"	1

PM0266A - ALUMINUM SUPPORT POST w/ CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
CAP0425	POST - 5" O.D. x 217" ALUMINUM w/ CAP & LBL AT 36"	1

PM0268A - ALUMINUM SUPPORT POST w/ CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
CAP0427	POST - 5" O.D. x 229" ALUMINUM w/ CAP & LBL AT 36"	1

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Installation Instructions

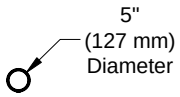
Playmakers® Models PM0017A, PM0027A, PM0037A, PM0047A, PM0057A, PM0067A, PM0079A, PM0129A, PM0136A, PM0138A, PM0267A, PM0269A
Aluminum Support Post w/o Cap
96 in. (2438 mm) to 229 in. (5817 mm)

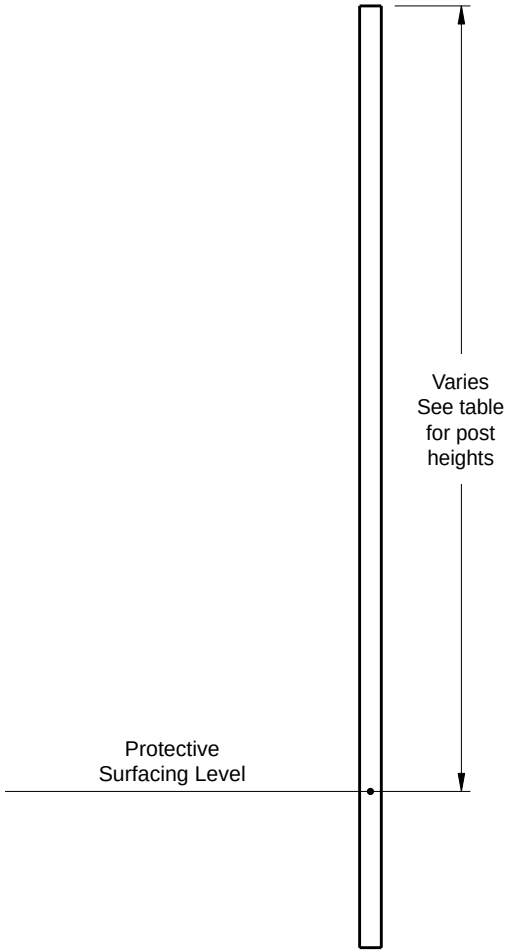
Assembly View *(representative model)*

Installation Preparation

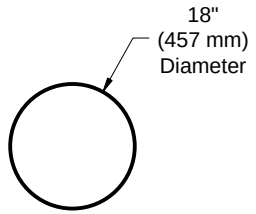
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1 man-hour
Weight: ..... (refer to table on the next page)
Concrete Required: ..... 0.12 cubic yard (0,09 cubic meters)

Top View





Elevation View



Footing Diagram

Model	Post Height	Weight
ZZPM0017A	120" (3048 mm)	28.5 lbs. (12,8 kg)
ZZPM0027A	132" (3353 mm)	33.3 lbs. (15 kg)
ZZPM0037A	144" (3658 mm)	34.6 lbs. (15,6 kg)
ZZPM0047A	156" (3962 mm)	36.4 lbs. (16,5 kg)
ZZPM0057A	168" (4267 mm)	39.4 lbs. (17,9 kg)
ZZPM0067A	180" (4572 mm)	44.4 lbs. (20.2 kg)
ZZPM0079A	205" (5207 mm)	48 lbs. (21,8 kg)
ZZPM0129A	192" (4877 mm)	44 lbs. (20 kg)
ZZPM0136A	96" (2438 mm)	24.1 lbs. (10,8 kg)
ZZPM0138A	108" (2743 mm)	26.5 lbs. (11,9 kg)
ZZPM0267A	217" (5512 mm)	41.5 lbs. (18,9 kg)
ZZPM0269A	229" (5817 mm)	44 lbs. (20 kg)

__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__**Step 2:** Separate and identify all components and hardware.

__**Step 3:** Excavate footings as shown in the **Footing Details**.

__**Step 4:** Set the support post into excavated footings in accordance with placement called out on the footing diagram. The post should be placed on a perforated shipping tube cap or on another porous flat surface to prevent any buildup of moisture in the base of the post. Block the support post at the specified depth.
Note: Heights of the decks and play components are measured from the top of protective surfacing.

Final Details.

__**Step 5:** Plumb and level the support post. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

PM0017A - ALUMINUM SUPPORT POST w/o CAP 120 in. (3048 mm)

PART NO.	DESCRIPTION	QTY.
BAF5011	POST - 5" O.D. x 120" ALUM w/o CAP & w/ LBL AT 36"	1

PM0027A - ALUMINUM SUPPORT POST w/o CAP 132 in. (3353 mm)

PART NO.	DESCRIPTION	QTY.
BAF5013	POST - 5" O.D. x 132" ALUM w/o CAP & w/ LBL AT 36"	1

PM0037A - ALUMINUM SUPPORT POST w/o CAP 144 in. (3658 mm)

PART NO.	DESCRIPTION	QTY.
BAF5015	POST - 5" O.D. x 144" ALUM w/o CAP & w/ LBL AT 36"	1

PM0047A - ALUMINUM SUPPORT POST w/o CAP 156 in. (3962 mm)

PART NO.	DESCRIPTION	QTY.
BAF5017	POST - 5" O.D. x 156" ALUM w/o CAP & w/ LBL AT 36"	1

PM0057A - ALUMINUM SUPPORT POST w/o CAP 168 in. (4267 mm)

PART NO.	DESCRIPTION	QTY.
BAF5019	POST - 5" O.D. x 168" ALUM w/o CAP & w/ LBL AT 36"	1

PM0067A - ALUMINUM SUPPORT POST w/o CAP 180 in. (4572 mm)

PART NO.	DESCRIPTION	QTY.
BAF5021	POST - 5" O.D. x 180" ALUM w/o CAP & w/ LBL AT 36"	1

PM0079A - ALUMINUM SUPPORT POST w/o CAP 205 in. (5207 mm)

PART NO.	DESCRIPTION	QTY.
BAF5023	POST - 5" O.D. x 205" ALUM w/o CAP & w/ LBL AT 36"	1

PM0129A - ALUMINUM SUPPORT POST w/o CAP 192 in. (4877 mm)

PART NO.	DESCRIPTION	QTY.
BAF5063	POST - 5" O.D. x 192" ALUM w/o CAP & w/ LBL AT 36"	1

PM0136A - ALUMINUM SUPPORT POST w/o CAP 96 in. (2438 mm)

PART NO.	DESCRIPTION	QTY.
BAF5007	POST - 5" O.D. x 96" ALUM w/o CAP & w/ LBL AT 36"	1

PM0138A - ALUMINUM SUPPORT POST w/o CAP 108 in. (2743 mm)

PART NO.	DESCRIPTION	QTY.
BAF5009	POST - 5" O.D. x 108" ALUM w/o CAP & w/ LBL AT 36"	1

PM0267A - ALUMINUM SUPPORT POST w/o CAP 217 in. (5512 mm)

PART NO.	DESCRIPTION	QTY.
BAF0425	POST - 5" O.D. x 217" ALUM w/o CAP & w/ LBL AT 36"	1

PM0269A - ALUMINUM SUPPORT POST w/o CAP 229 in. (5817 mm)

PART NO.	DESCRIPTION	QTY.
BAF0427	POST - 5" O.D. x 229" ALUM w/o CAP & w/ LBL AT 36"	1

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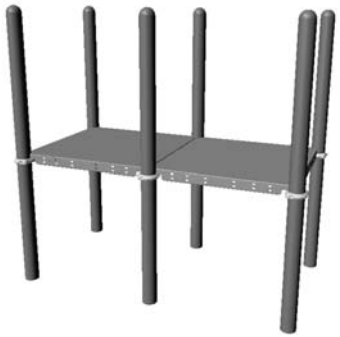
Installation Instructions

Playmakers® PM0616 and PM0629
Square and Long
Coated Perforated Decks

ZZPM0616
Square Deck

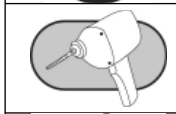
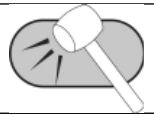
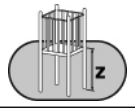


ZZPM0629
Long Deck

Assembly View

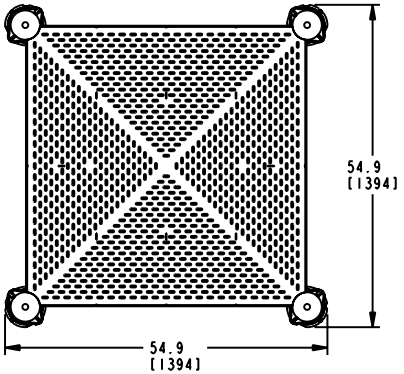
Installation Preparation

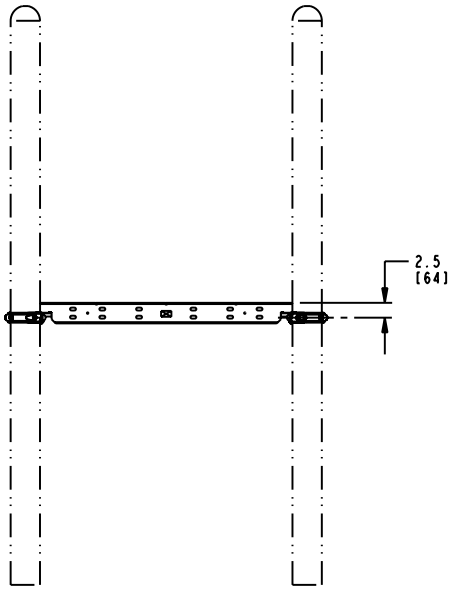
Recommended Crew (PM0616):..... Two (2) adults
Recommended Crew (PM0629):..... Four (4) adults
Installation Time (PM0616): ..... 1 man-hour
Installation Time (PM0629): ..... 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

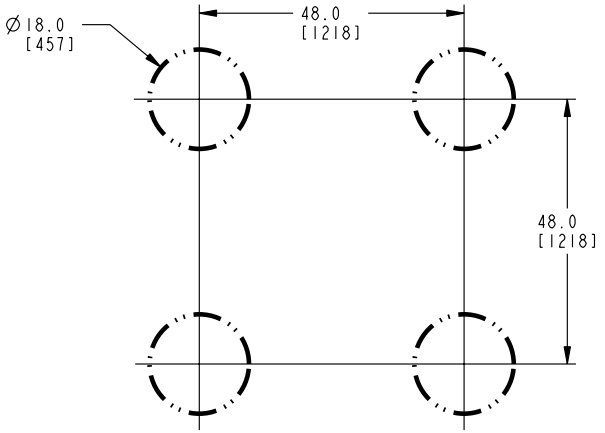
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

Top View

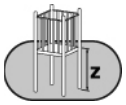




Elevation View
Model PM0616



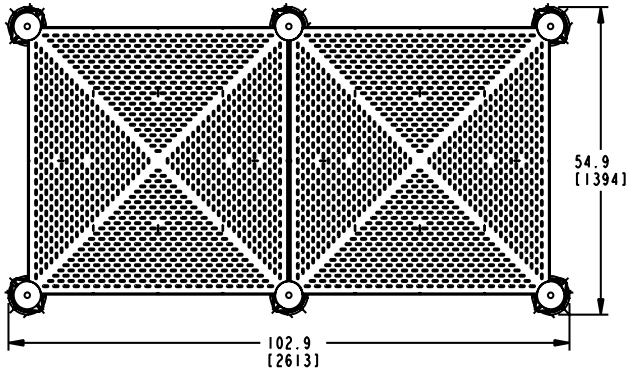
Footing Diagram

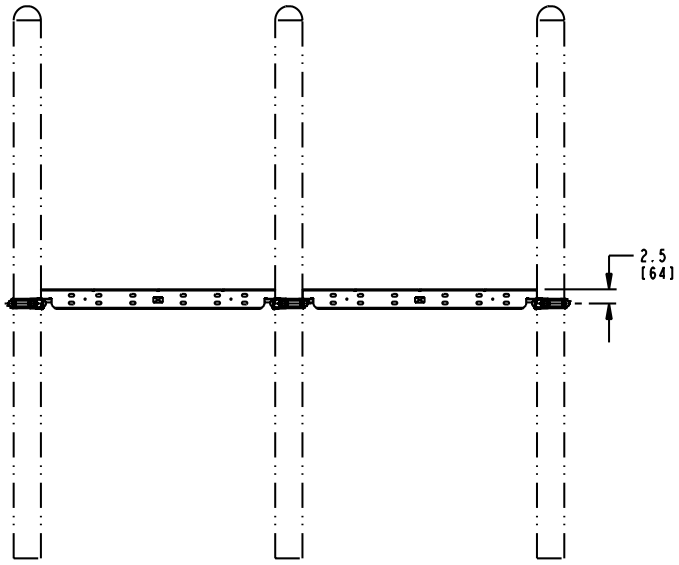


Equal to the height of the deck

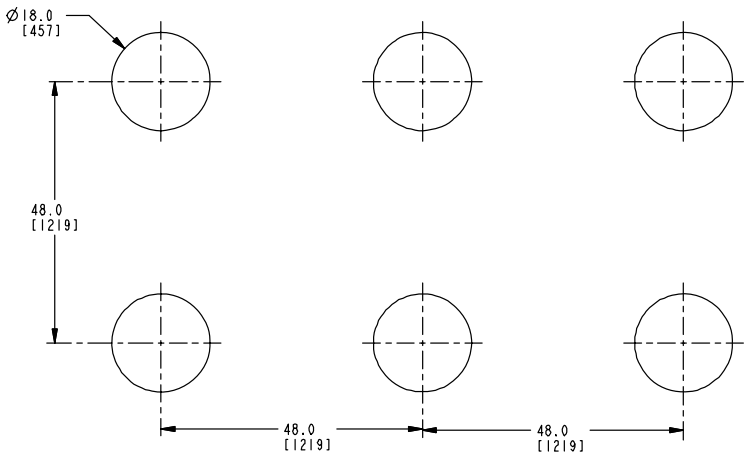
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

Top View

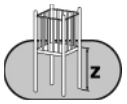




Elevation View
Model PM0629



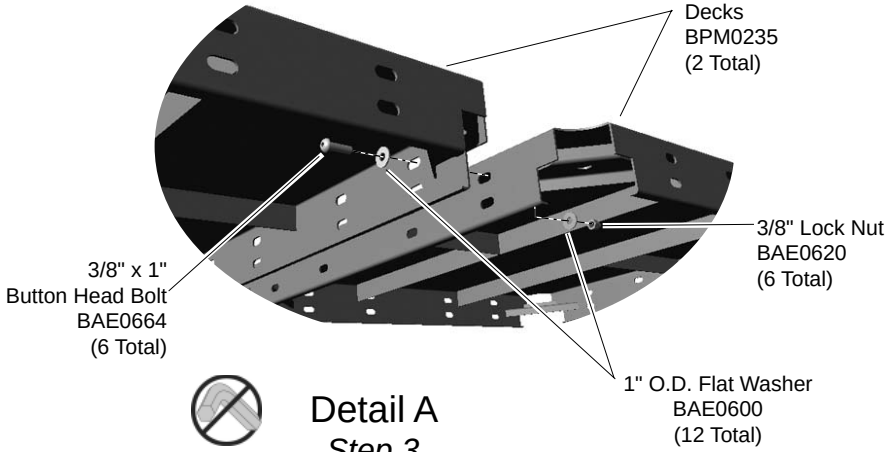
Footing Diagram



Equal to the height of the deck

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

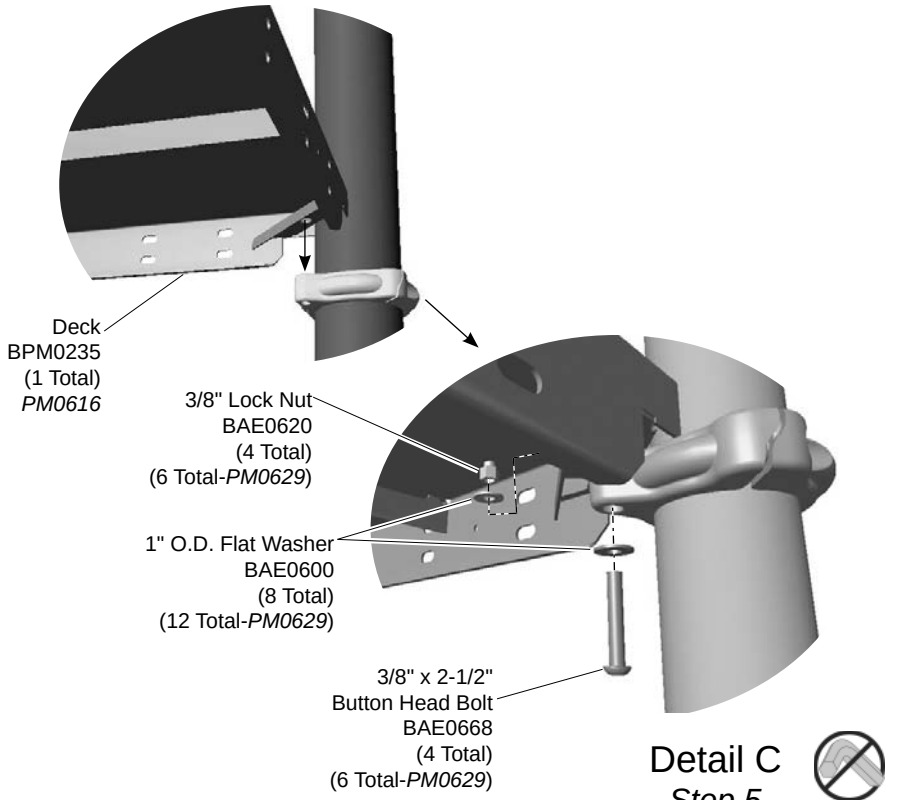


Detail A

Step 3

(Model PM0629 Only)

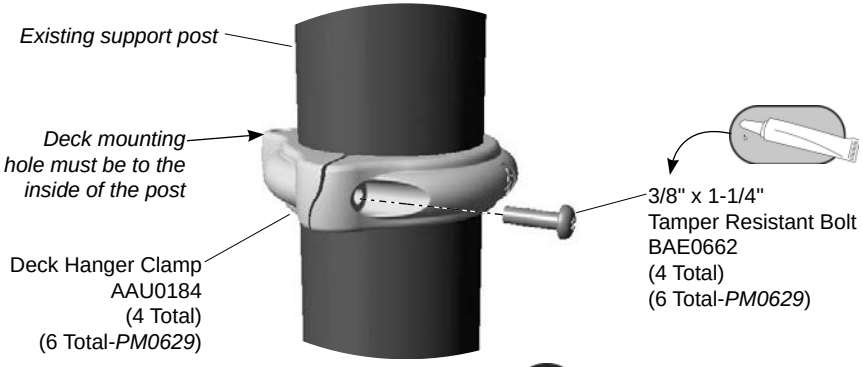
Attach the two decks together.



Detail C

Step 5

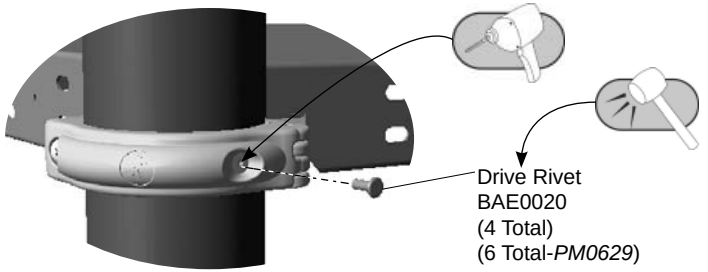
Attach the decks to the clamps.



Detail B

Step 4

Attach the deck clamps to the support posts.



Detail D

Step 7

Secure the clamps to the support posts.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. *Reference the master layout drawing at the beginning of the instruction booklet for location and heights of the decks*.

Step 3: *(Model PM0629 Only)* Attach the two decks together. **See Detail A**. Place both decks upside down on a flat surface. Match the long edges, align the holes, and attach as shown.

Step 4: Attach the deck clamps to the support posts. **See Detail B**. Position the clamps on the post at an appropriate height, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Ensure that all clamps are turned the same way, with deck connection inward.

Step 5: Attach the deck(s) to the clamps. See **Detail C**. Position the deck corners on top of the clamps and attach as shown.

Final Details.

Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM0616 - SQUARE COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	4
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	8
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	4
BPM0235	PLATFORM - PM SQUARE PERF	1

PM0629 - LONG COATED PERFORATED DECK

PART NO.	DESCRIPTION	QTY.
AAU0184	CLAMP - 5" DECK HANGER DIE CAST	6
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	6
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	6
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE0668	BOLT - 3/8"-16 x 2-1/2" BUTTON HEAD - SS	6
BPM0235	PLATFORM - PM SQUARE PERF	2

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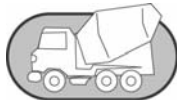
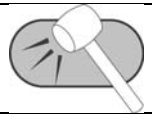
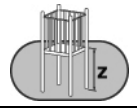
Installation Instructions

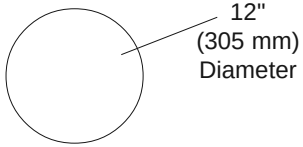
Universal Model UN2019
Platform Approach Step

Assembly View

Installation Preparation

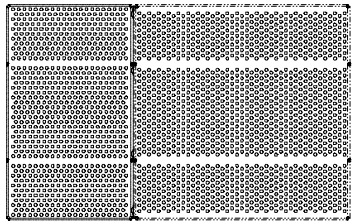
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1 man-hour
Weight: ..... 40.4 lbs. (18,2 kg)
Concrete Required: ..... 0.03 cubic yard (0,02 cubic meters)
Use Zone: ..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

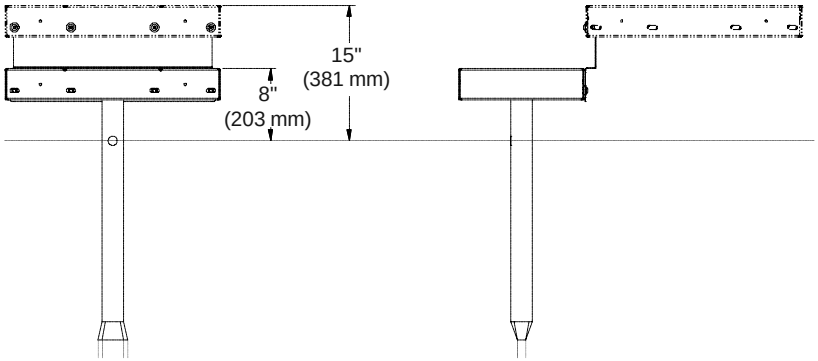
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

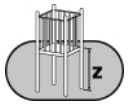


Footing Diagram

Top View





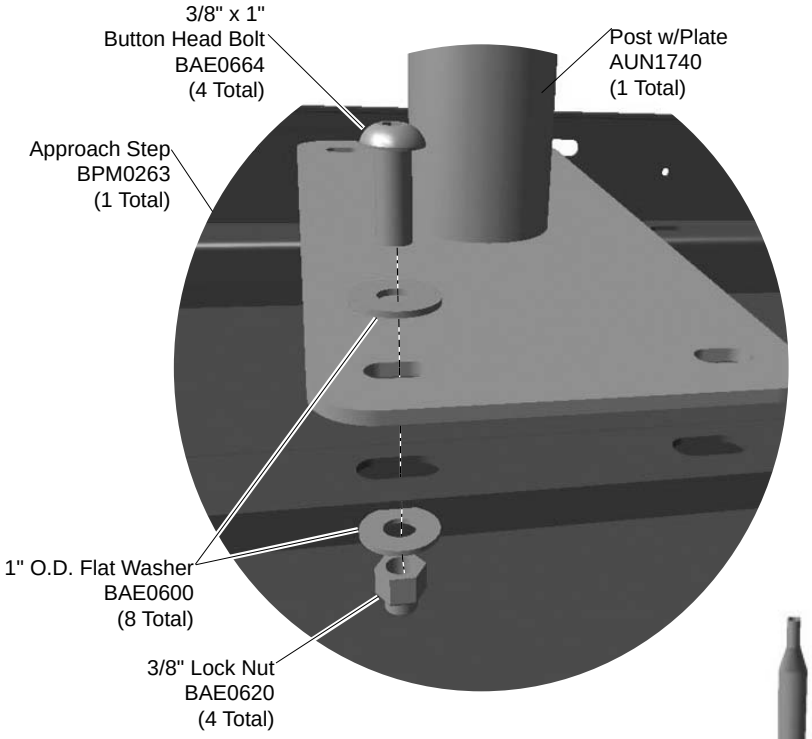


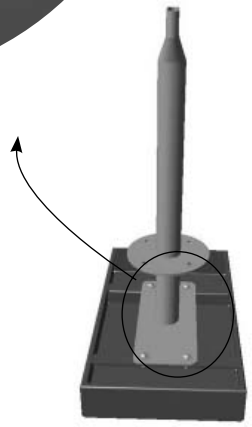
15" (381 mm)

Elevation Views

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

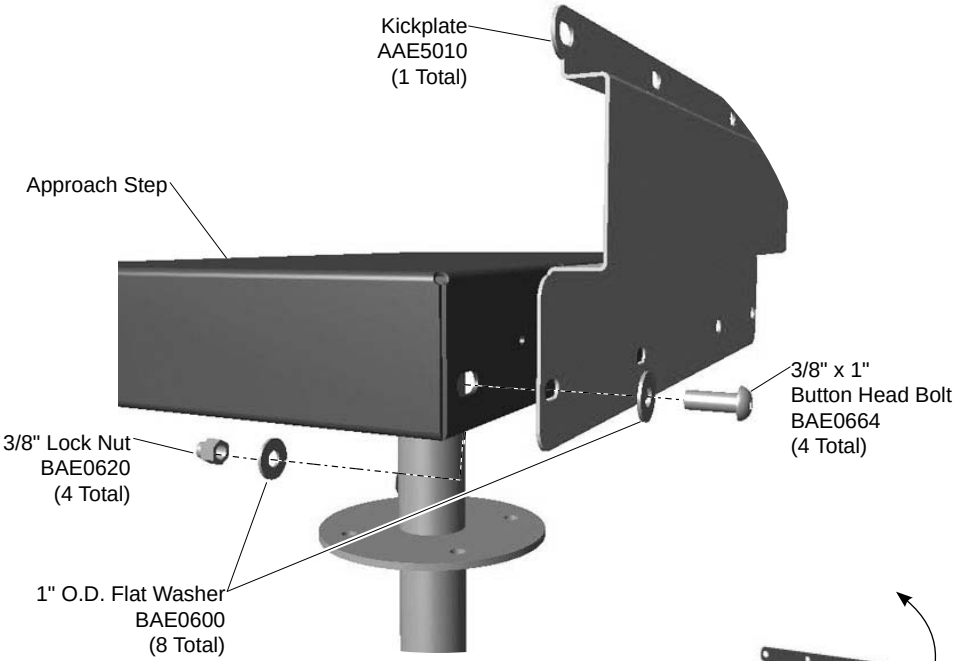




Detail A

Step 4

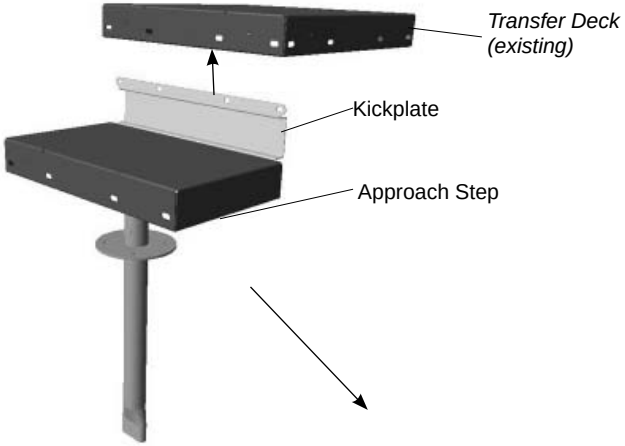
Attach the anchor post to the approach step.

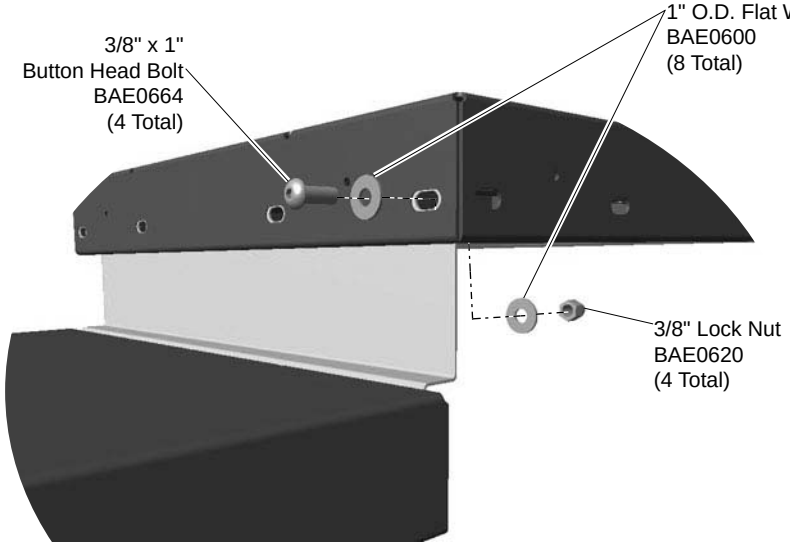


Detail B

Step 5

Attach the kickplate to the approach step.





Detail C

Step 6

Attach the kickplate to the transfer deck.

Step 7

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Guidelines at the beginning of this document*.

Attach the support leg to the approach step.

Step 4: Attach the support leg to the approach step. See **Detail A**. Turn the approach step upside down. Align the mounting slots on the underside of the step with those in the support leg plate. Attach as shown.

Attach the kickplate to the approach step.

Step 5: Attach the kickplate to the approach step. See **Detail B**. Position the kickplate so that holes in the wide flange align with the holes of the approach step. Attach as shown.

Attach the approach step assembly to the transfer deck.

Step 6: Attach the approach step assembly to the transfer deck. See **Detail C**. Place the support leg into the excavated footing and position the kickplate inside and under the transfer deck. Attach as shown.

Note: The approach step can be placed on any open side of the transfer deck.

Final Details.

Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

UN2019 - PLATFORM-APPROACH STEP

PART NO.	DESCRIPTION	QTY.
AAE5010	KICKPLATE - 7" x 23"	1
AUN1740	POST - 2-3/8" O.D. x 30-3/16" SUPPORT LEG w/PLATE	1
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	12
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	12
BPM0263	PLATFORM- 14" x 24" APPROACH STEP	1

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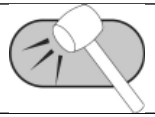
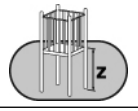
Installation Instructions

Playmakers® Model PM2006, PM2006S,
PM2007 and PM2007S
36 in. (914 mm) Transfer Station and
36 in. (914 mm) Transfer Station w/Tall Guardrail
In-ground and Surface Mount

Assembly View *(representative model)*

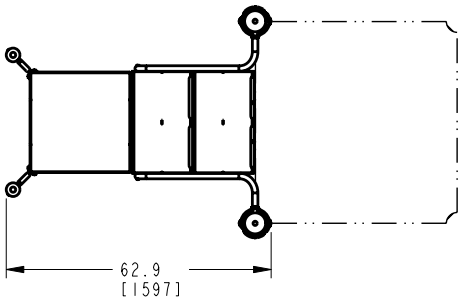
Installation Preparation

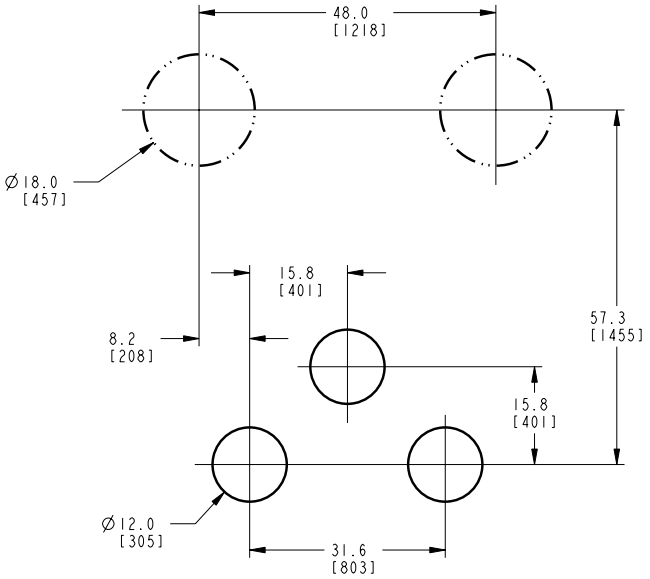
Recommended Crew: ..... Two (2) adults
Installation Time (In-Ground):..... 3 man-hours
Installation Time (Surface Mount): ..... 1.5 man-hours
Concrete Required:..... 0.09 cubic yard (0,07 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

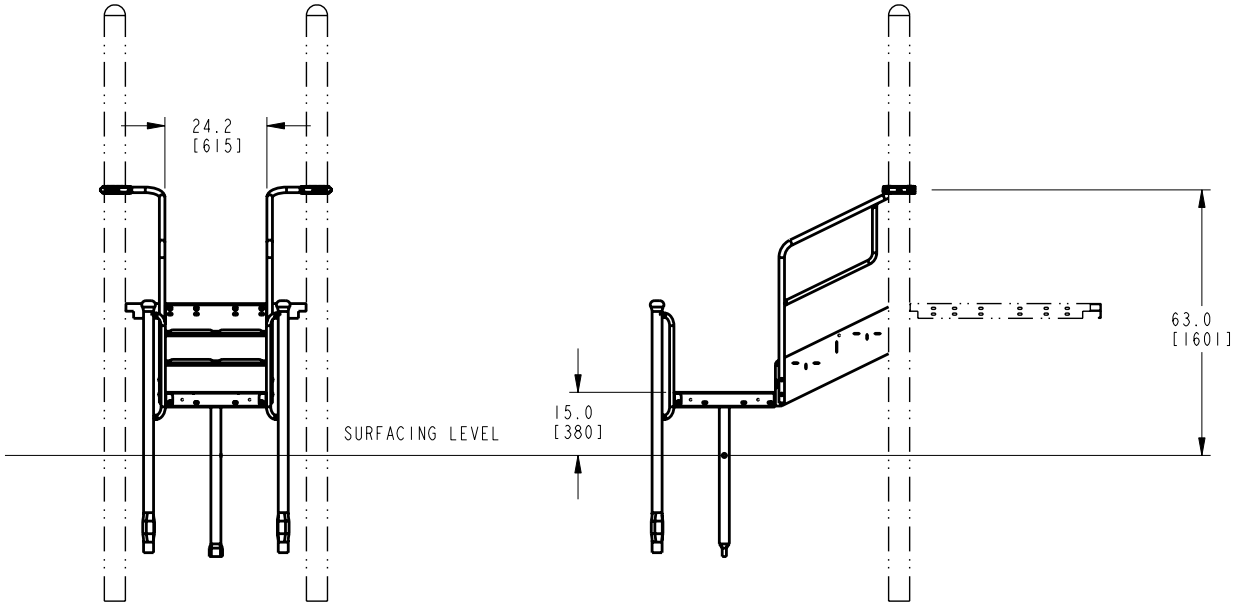
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

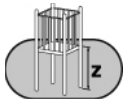
Top View





Footing Diagram



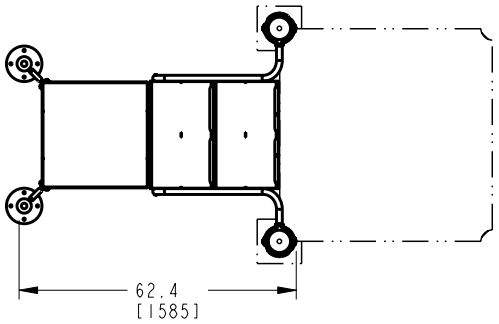


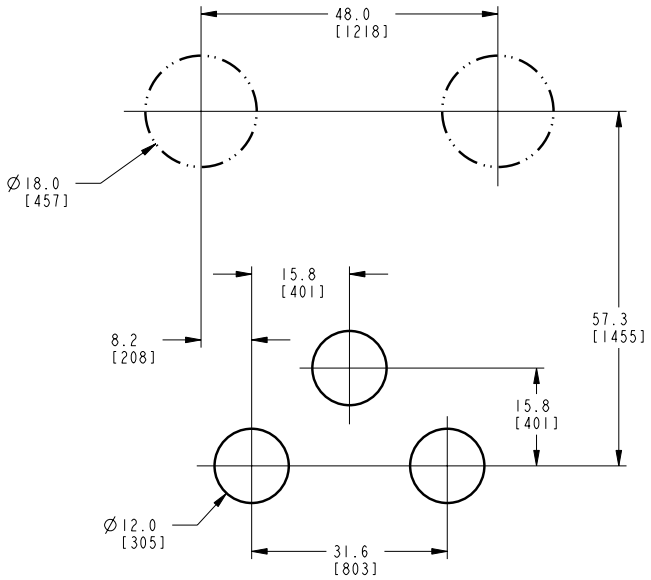
27" (685 mm)

Elevation View
PM2006

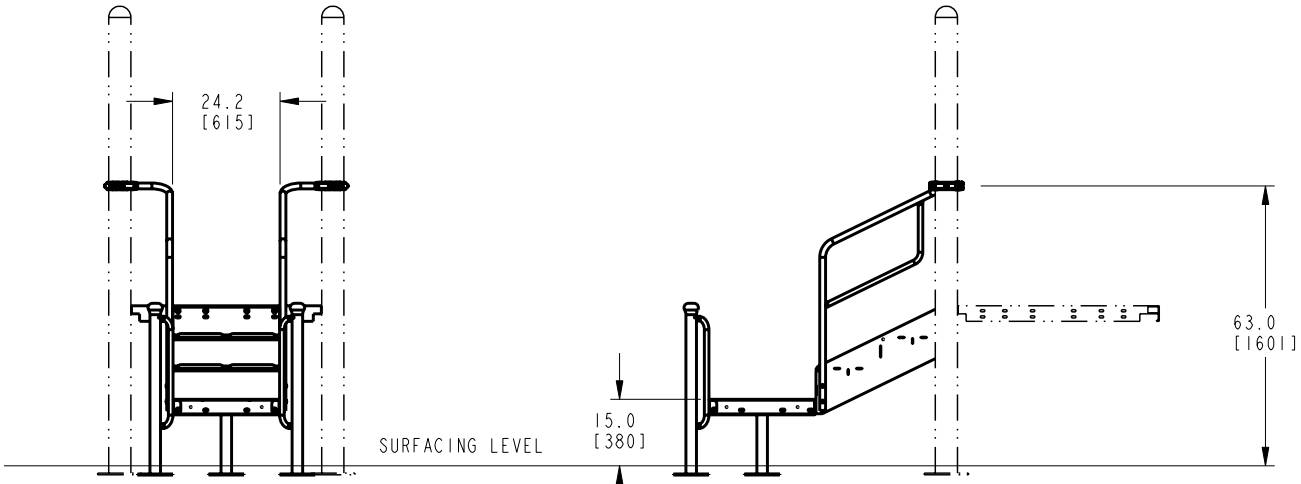
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

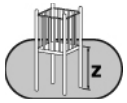
Top View





Footing Diagram



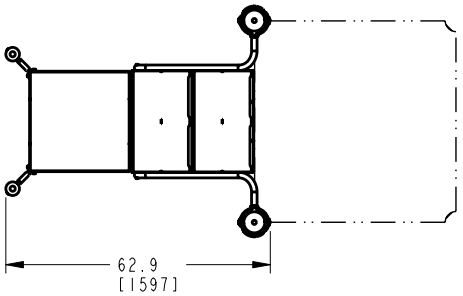


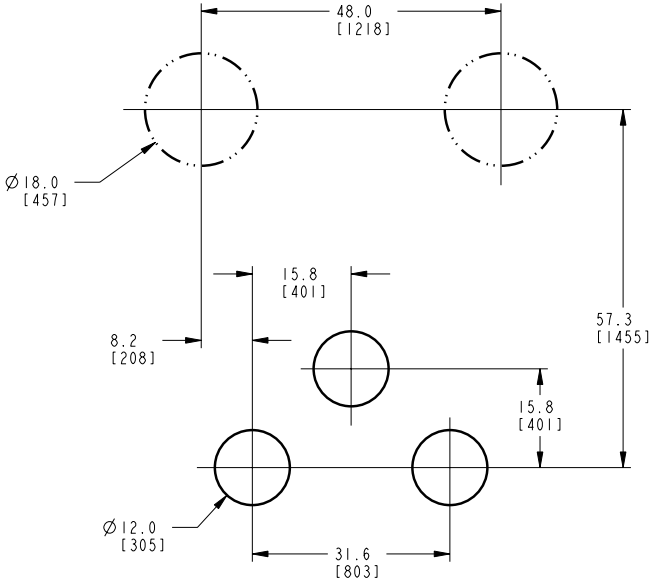
27" (685 mm)

Elevation View
PM2006S

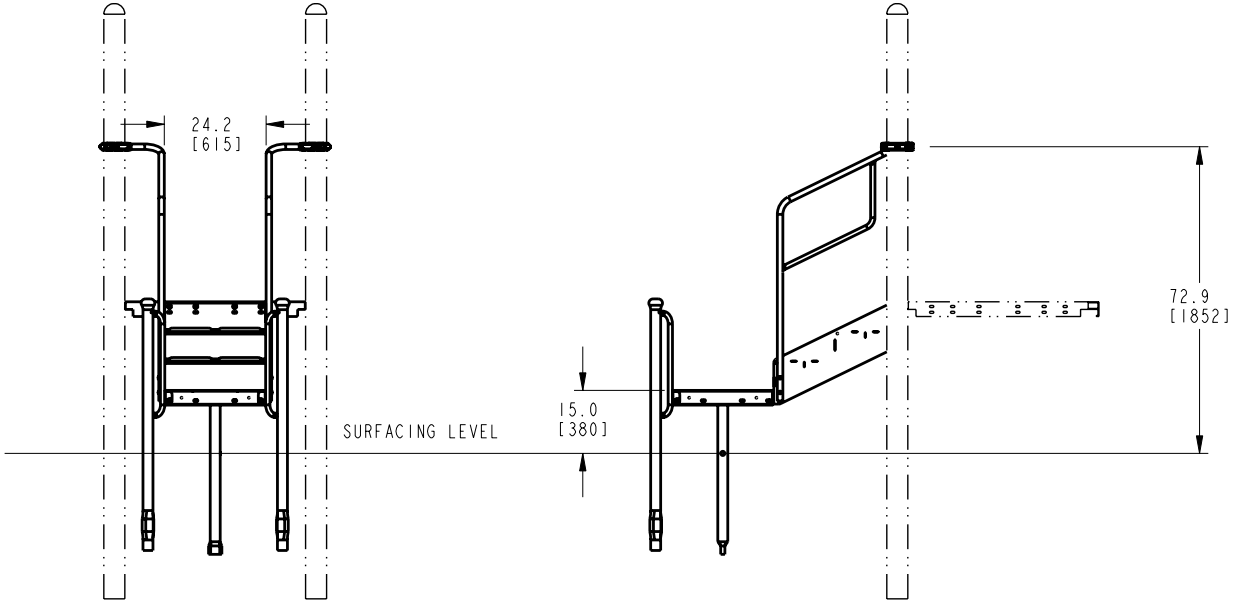
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

Top View

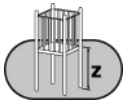




Footing Diagram



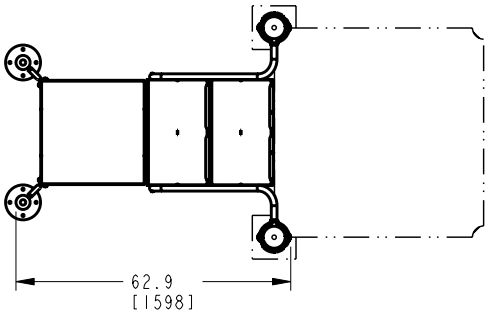
Elevation Views
PM2007

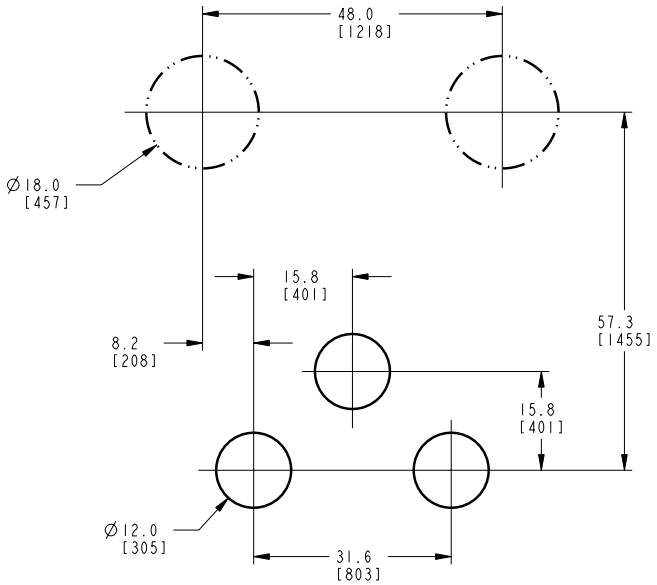


27" (685 mm)

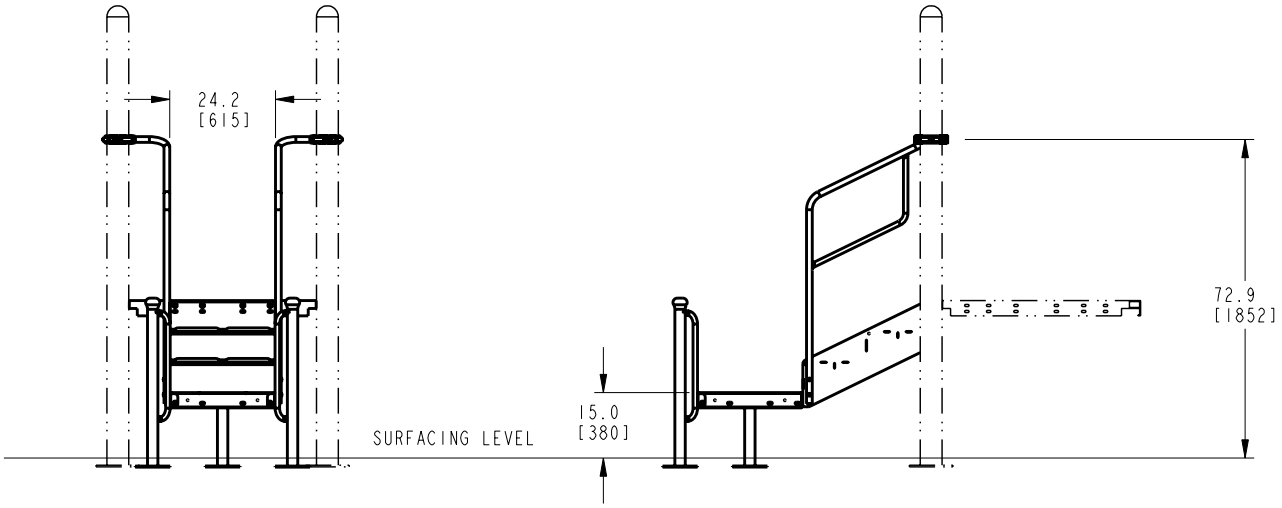
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

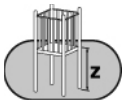
Top View





Footing Diagram



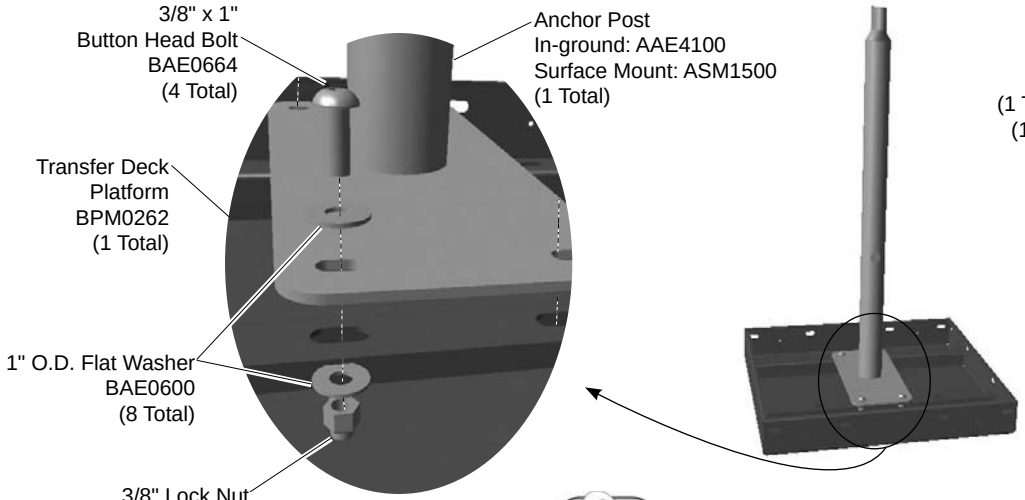


27" (685 mm)

Elevation Views
PM2007S

Installation Instructions

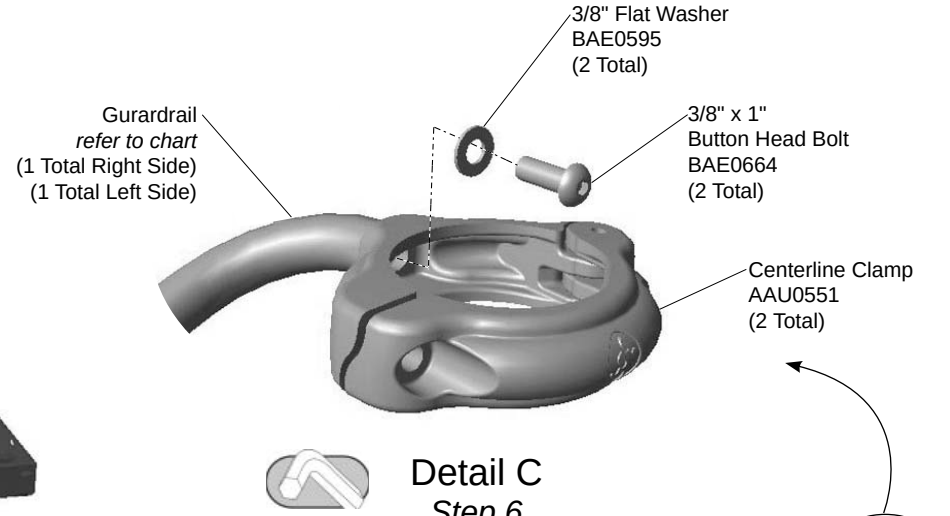
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.



Detail A

Step 4

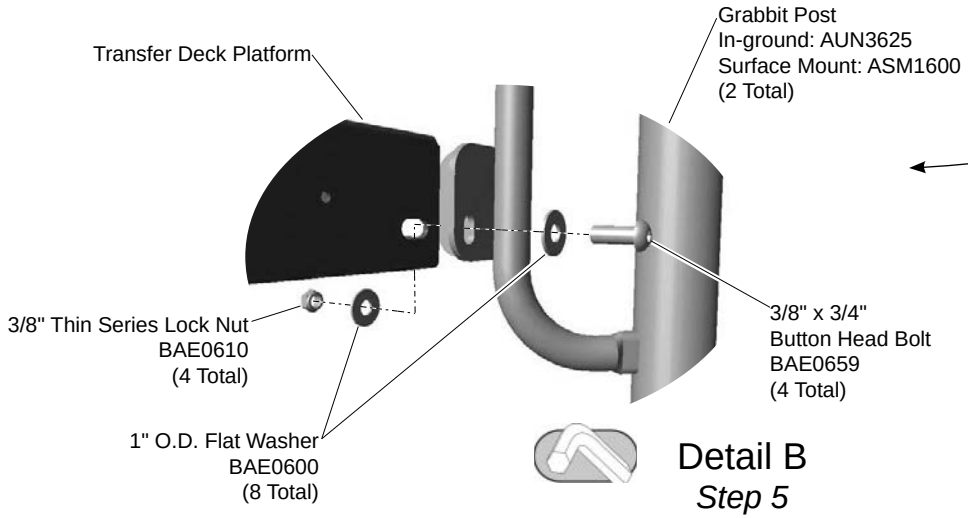
Attach the anchor post to the transfer deck.



Detail C

Step 6

Attach the clamps to the right and left guardrails.

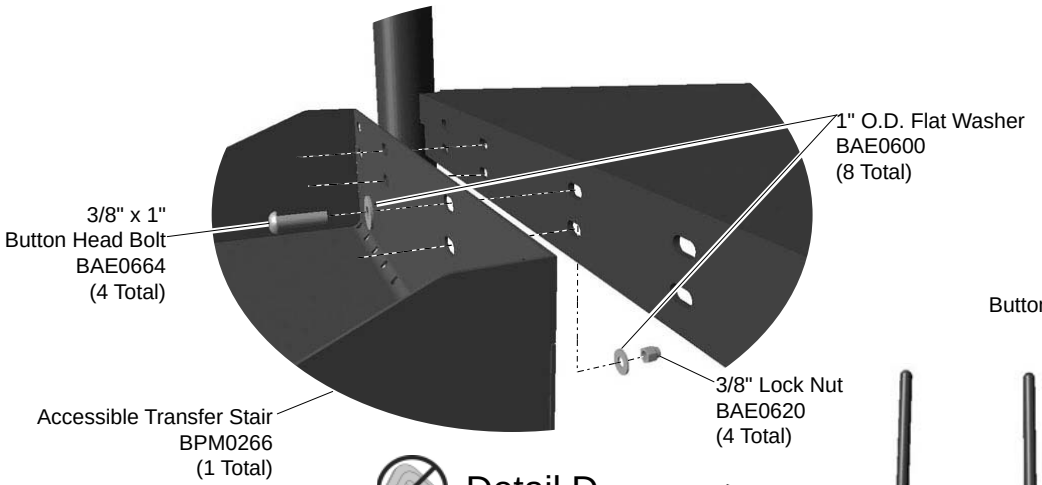


Detail B

Step 5

Attach the grabbit post to the platform.

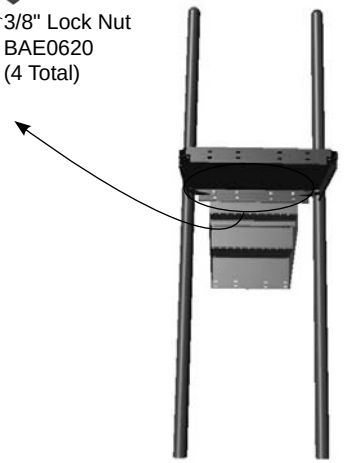
Part Number	Side	Guardrail Part Number
ZZPM2006 (S)	Left	AHR0055
ZZPM2006 (S)	Right	AHR0054
ZZPM2007 (S)	Left	AHR0057
ZZPM2007 (S)	Right	AHR0056

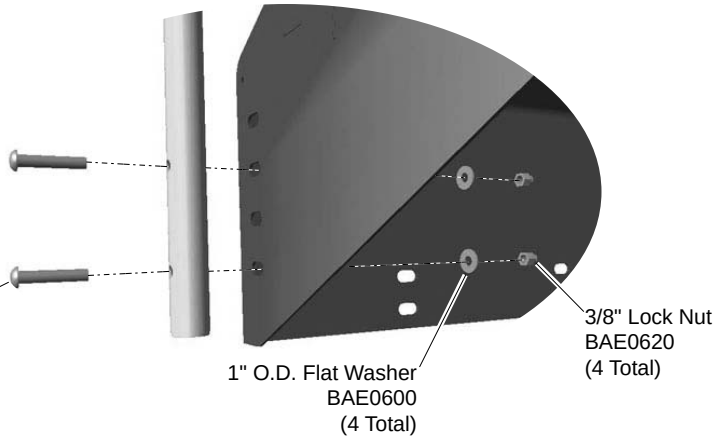


Detail D

Step 7

Attach the stair to the deck.

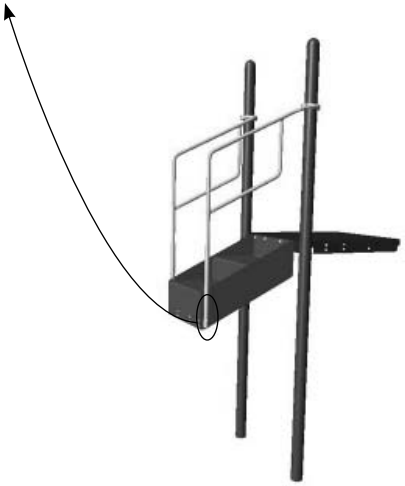


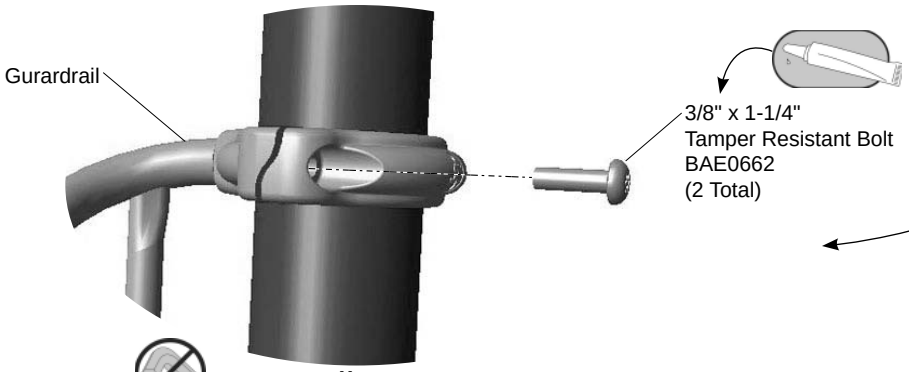


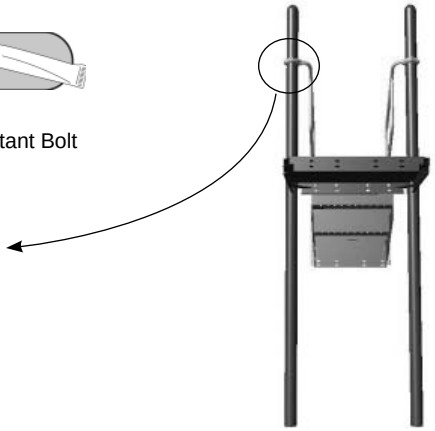
Detail F

Step 9

Attach the guardrails to the stair.



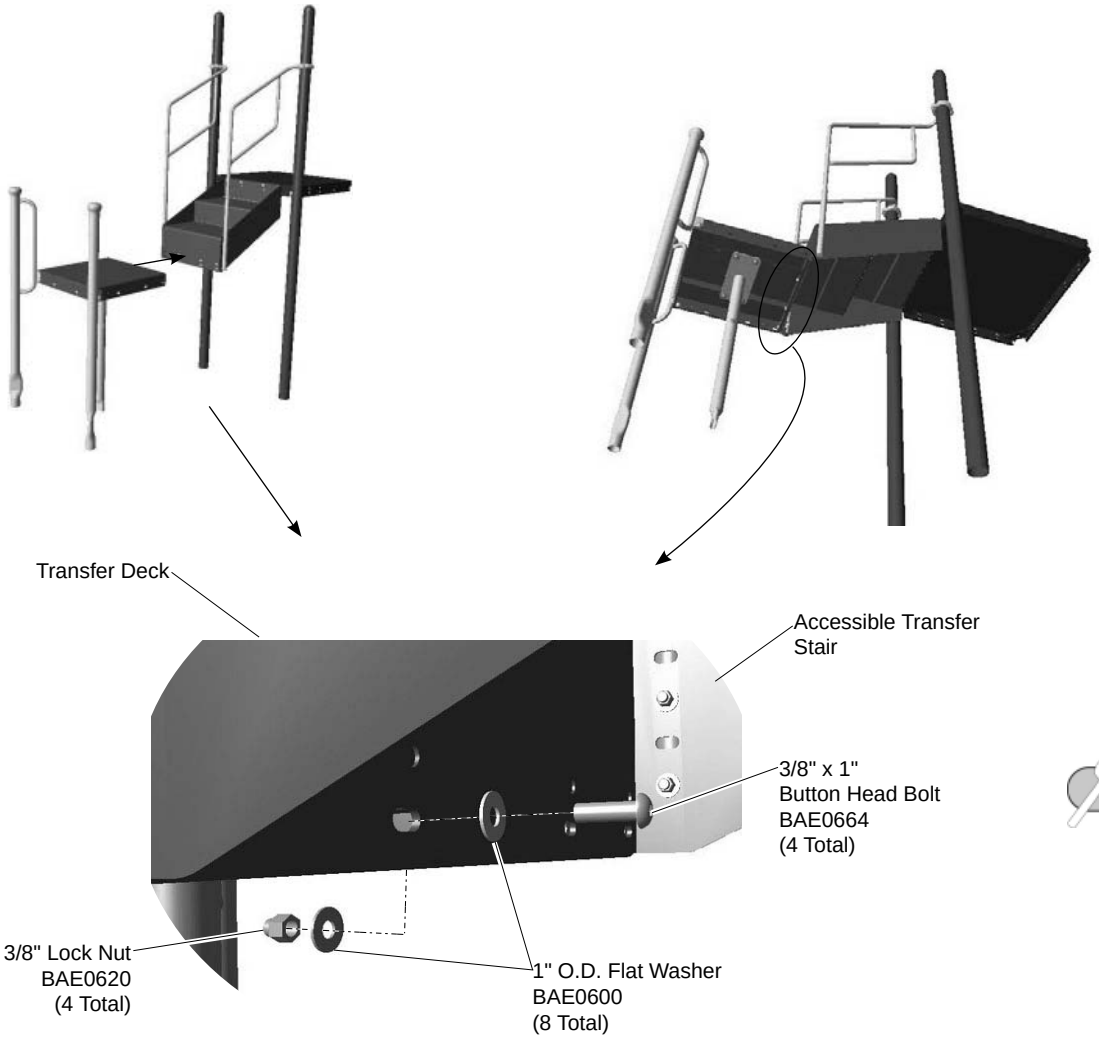




Detail E

Step 8

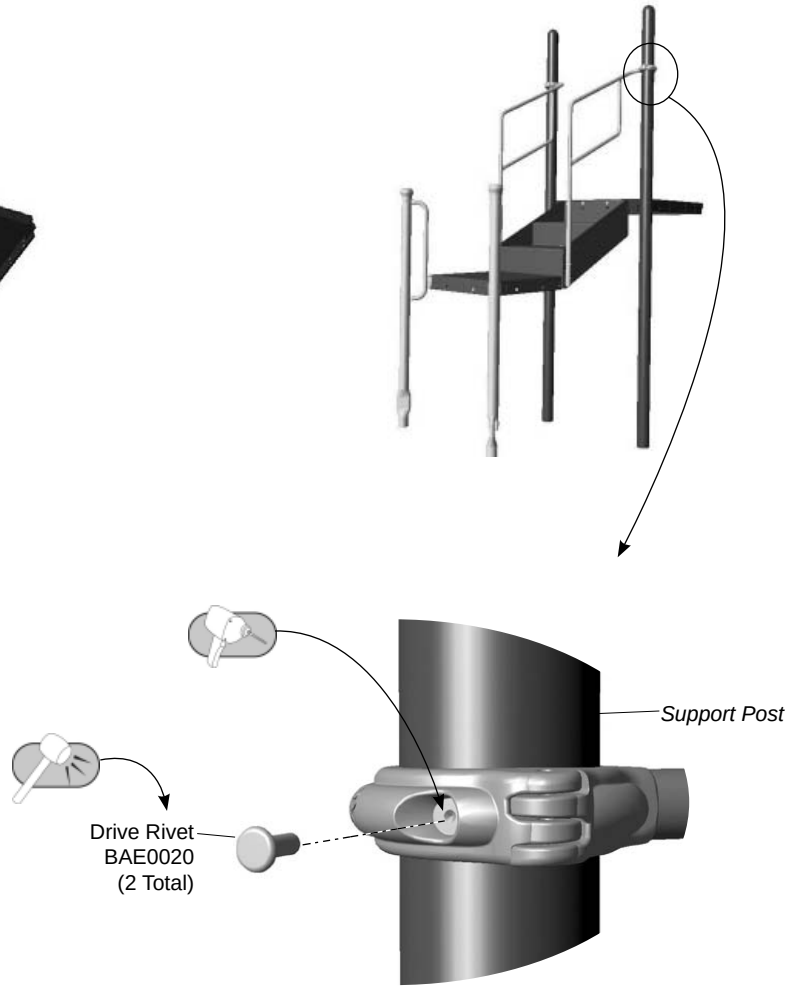
Attach the guardrails to the support posts.



Detail G

Step 10

Attach transfer deck assembly to the stair.



Detail H

Step 12

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.
Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footings as shown in the *Guidelines at the beginning of this document*. Use the **Component Footing Details** for the in-ground model.

Attach the anchor post to the transfer deck.
Step 4: Attach the anchor post to the underside of transfer deck. See **Detail A**. Flip the transfer deck over and align the holes in the anchor post mounting plate with the underside of the deck. Attach as shown. Center the leg on the deck and fully tighten connections. See **Step 11** for the torque specifications.

Attach grabbits to transfer deck.
Step 5: Attach grabbits to transfer deck. See **Detail B**. Align the corner bracket on the grabbit with the mounting holes on the transfer deck. Attach as shown. Attach the other grabbit to an adjacent deck corner in the same manner.

Attach the clamps to the guardrails.
Step 6: Attach the clamps to guardrails. See **Detail C**. Position the end of each guardrail top rail against the neck of each clamp and attach as shown.

Attach the stairs to existing support deck.
Two (2) adults and a brace for the stair section are recommended to complete Steps 7-10.
Step 7: Attach the stairs to existing support deck. See **Detail D**. Center stair on the side of the deck and align the upper holes. Attach as shown.
Note: The upper edge of the top stair riser should be flush with, and not protruding above the supporting deck surface.
Important note: The bottom of the stairs will need to be supported until the transfer deck is added.

Attach guardrails to the support posts.
Step 8: Attach guardrails to the support posts. See **Detail E** and **Elevation View**. Lift a guardrail into position between the post and the stairs. Close the clamps around the support post. Apply a drop of thread locking adhesive to the bolt threads and attach as shown. Snug tighten connection only. The location of the clamps may need to be adjusted to align stair connection holes.

Attach guardrails to the stair.
The guardrails can be attached to the stair using either the first and third holes or the second and fourth holes in the stair side rails, depending on adjacent clamp positions. Both guardrails should be mounted at the same height.
Step 9: Attach the guardrails to the stair. See **Detail F**. Align the guardrail holes with the holes in the bottom and middle of the stair side rail. Attach as shown.

Attach transfer deck assembly to the stair.
Step 10: Attach transfer deck assembly to the stair. See **Detail G**. Select the transfer deck assembly, and the appropriate hardware. There are (4) four connections. Place the transfer deck assembly into the prepared footings and align the bottom set of holes in the stair with those on the transfer deck. Attach as shown.

Final Details.
Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.
Torque Specifications:
Bolts and nuts - Snug tighten and then tighten an additional one half turn.

In-ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.
Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 12: Install drive rivets. See **Detail H**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

ZZPM2006 - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACCESSIBLE COATED TRNSFR w/SLOTS	1

ZZPM2006S - 36 in. (914 mm) TRANSFER STATION

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0054	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (RIGHT)	1
AHR0055	GUARDRAIL - 8-1/4" x 29-3/16" x 51-11/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBL COATED TRANSFER w/SLOTS	1

ZZPM2007 - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAE4100	POST - 14" x 37-3/16" w/PLATE	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
AUN3625	POST - 60-9/16" GRABBIT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSBLE COATED TRANSFER w/SLOTS	1

ZZPM2007S - 36 in. (914 mm) TRANSFER STATION w/ TALL GUARDRAIL

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AHR0056	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (RIGHT)	1
AHR0057	GUARDRAIL - 8-1/4" x 29-3/16" x 61-7/32" (LEFT)	1
ASM1500	POST - 14" x 15-3/16" w/2 PLATES	1
ASM1600	POST - 38-5/8" GRABBIT SM	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	36
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	16
BAE0659	BOLT - 3/8-16 x 3/4" BUTTON HEAD - SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	14
BAE06673	BOLT - 3/8"-16 x 2" BUTTON HEAD - SS	4
BPM0262	PLATFORM - 24" x 24" TRANSFER DECK w/SLOTS	1
BPM0266	STAIR - 21" ACSIBLE COATED TRANSFER w/SLOTS	1

PLAYWORLD™

Installation Instructions

Playmakers®

Models PM2658, PM2696, PM3126-PM3128

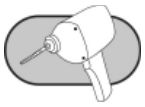
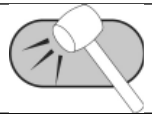
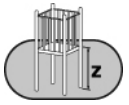
24"-72" (610-1829 mm) Glide Slides

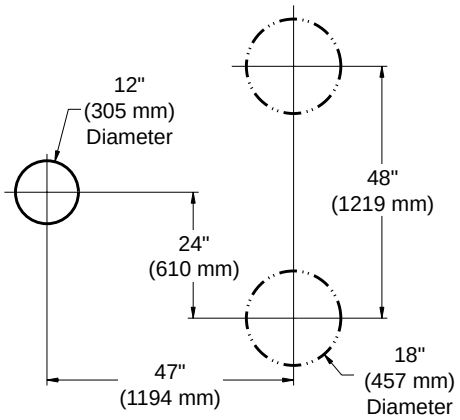
Assembly View *(representative model)*

Model	Deck Height	Weight
PM3128	24-30" (610-762 mm)	111 lbs. (50,5 kg)
PM3127	36" (915 mm)	110 lbs. (50 kg)
PM3126	48" (1220 mm)	131.4 lbs. (59,7 kg)
PM2658	60" (1525 mm)	145.7 lbs. (66,2 kg)
PM2696	72" (1830 mm)	161.9 lbs. (73,6 kg)

Installation Preparation

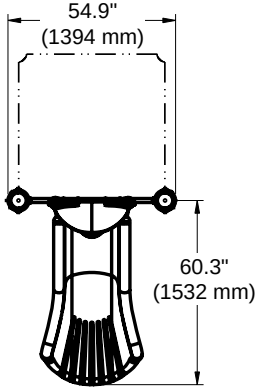
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1.5 man-hours
Weight: ..... refer to the table at left
Concrete Required: ..... 0.03 cubic yard (0,02 cubic meters)
Use Zone: ..... Refer to Master Drawing
User Group Age (years): ..... 24"-60": ASTM/CSA: 2-12, EN: 2-14
..... 72": ASTM/CSA: 5-12, EN: 6-14

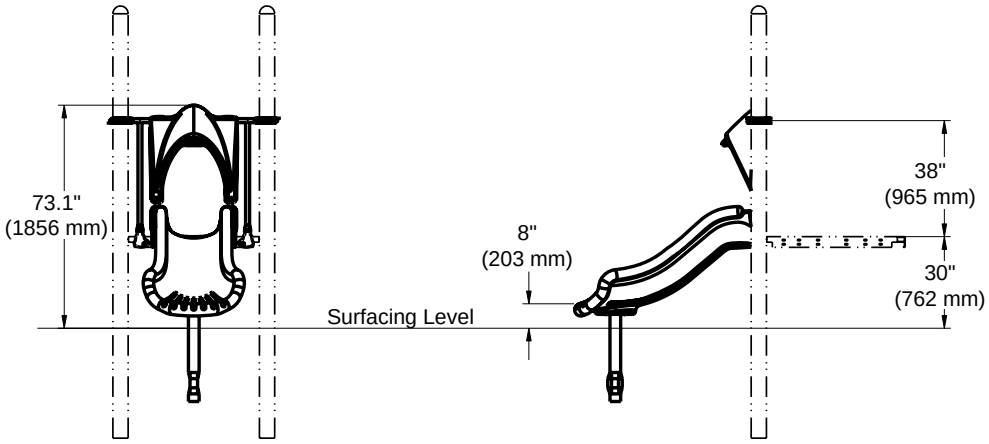
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully TIghten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Footing Diagram

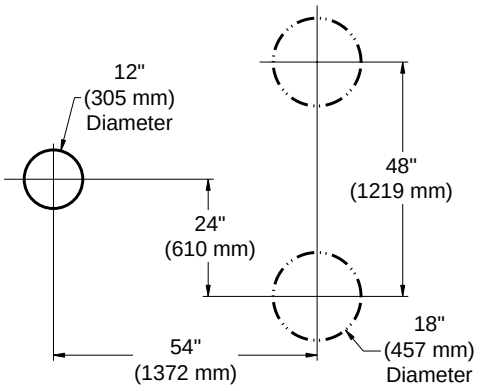
If the slide will be connected to a 24" (610 mm) deck, the exit post will need to be footed 6" (152 mm) deeper.



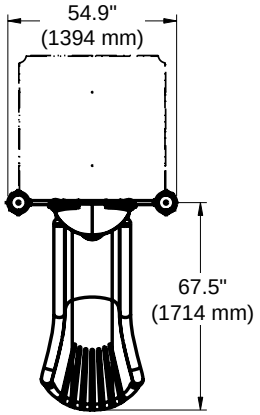


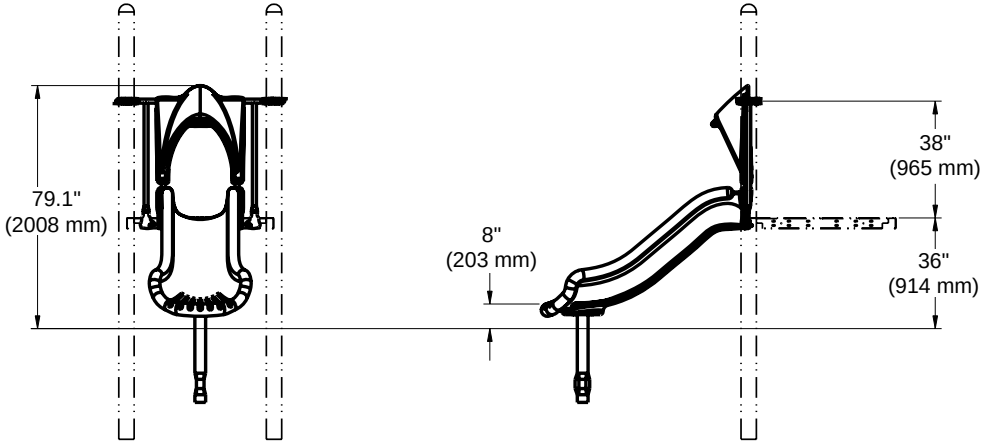
Elevation View PM3128 - 30" Glide Slide

(24" slide: exit will be 2" (50mm) above the surfacing level)

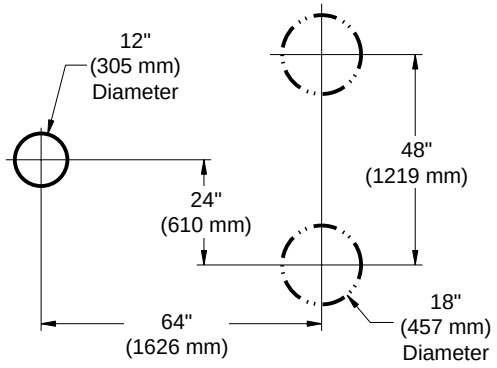


Footing Diagram

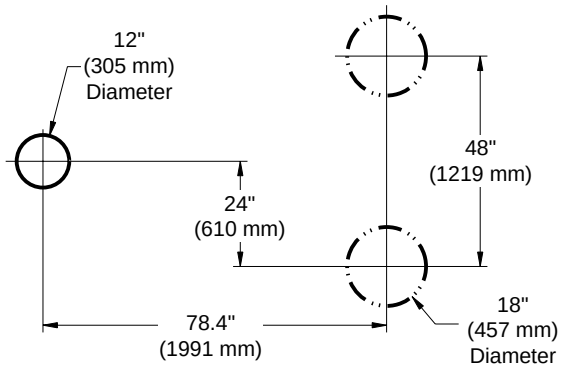




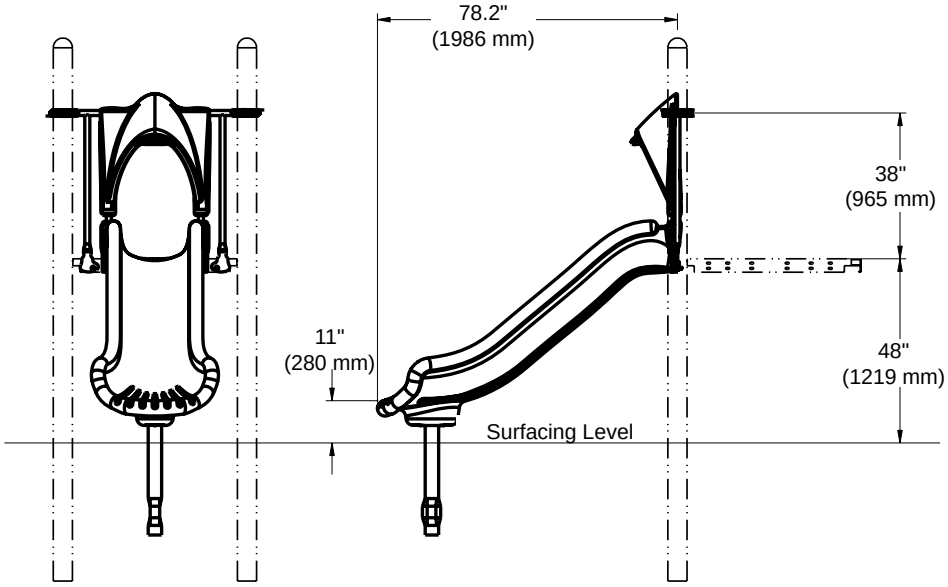
Elevation View PM3127 - 36" Glide Slide



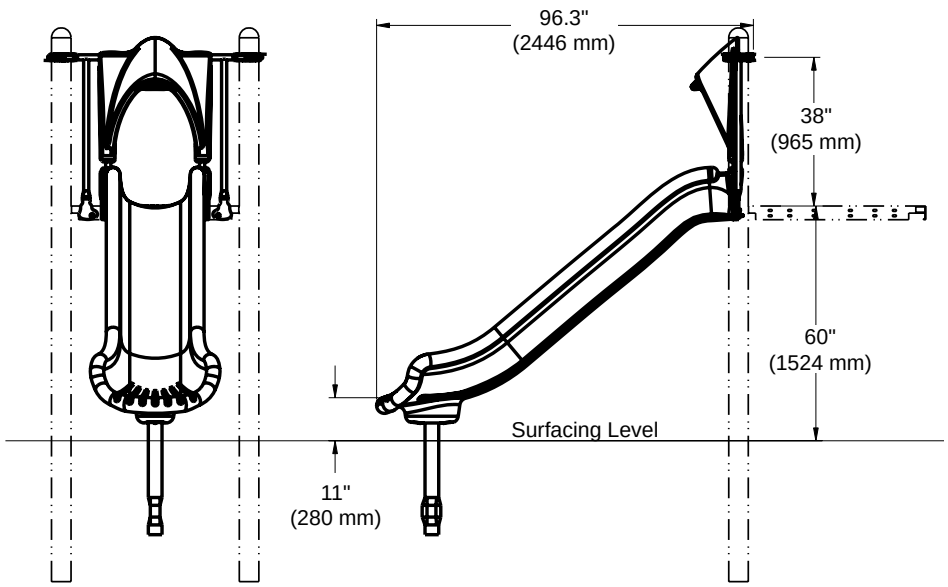
Footing Diagram



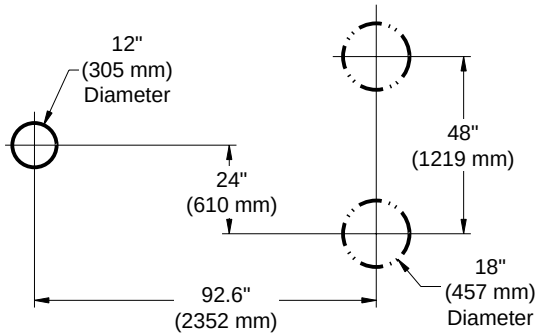
Footing Diagram



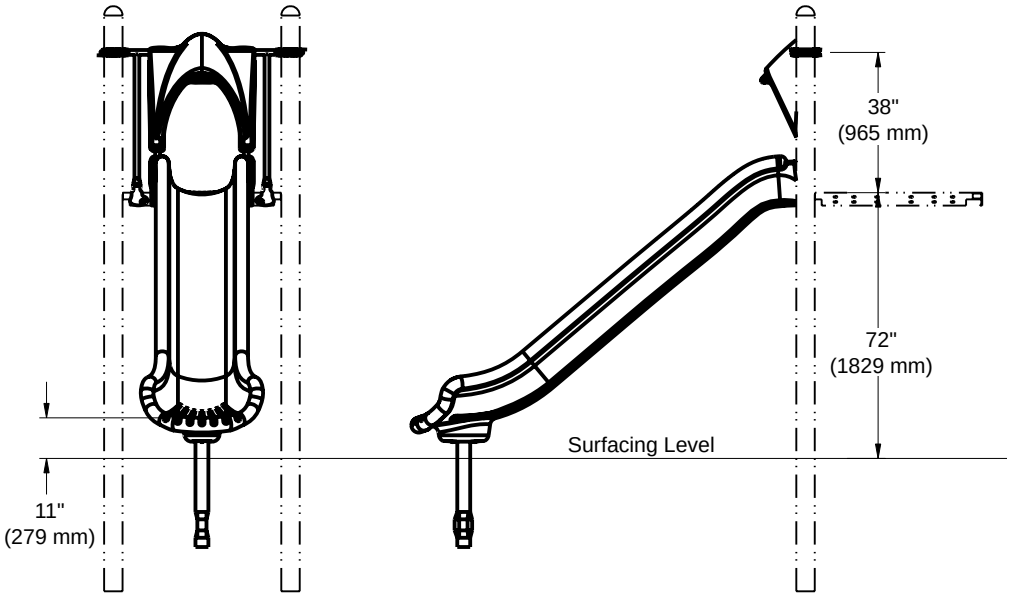
Elevation View PM3126 - 48" Glide Slide



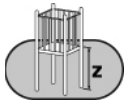
Elevation View PM2658 - 60" Glide Slide



Footing Diagram



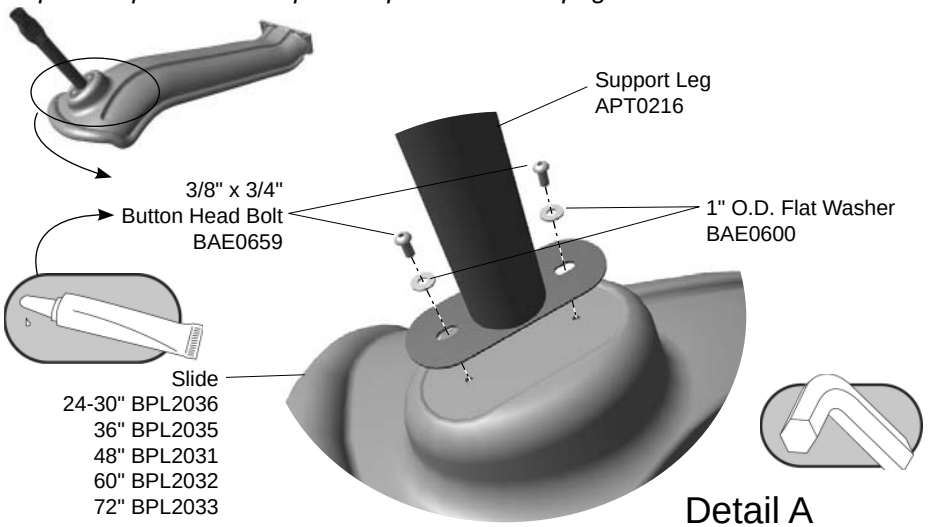
Elevation View PM2696 - 72" Glide Slide



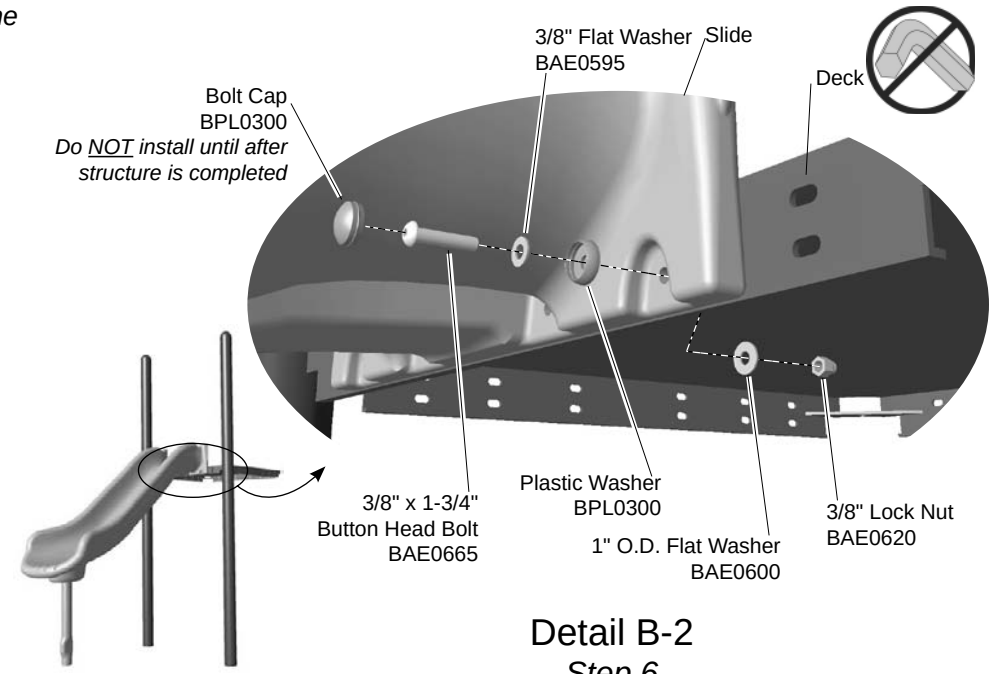
(A) Deck Height	Critical Fall Height (EN)
24-30" (610-762 mm)	610-760 mm
36" (914 mm)	915 mm
48" (1219 mm)	1220 mm
60" (1524 mm)	1525 mm
72" (1829 mm)	1830 mm

Installation Instructions

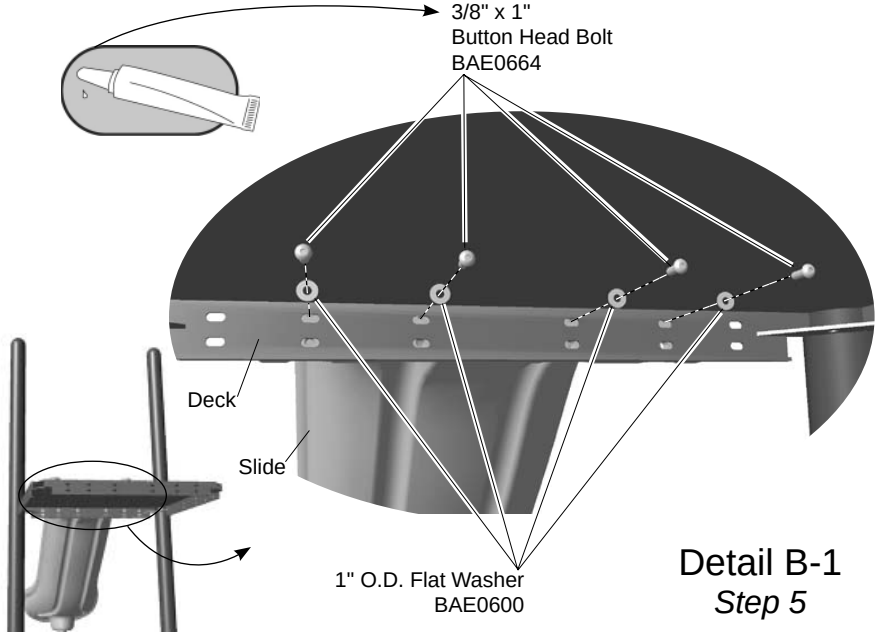
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 8.



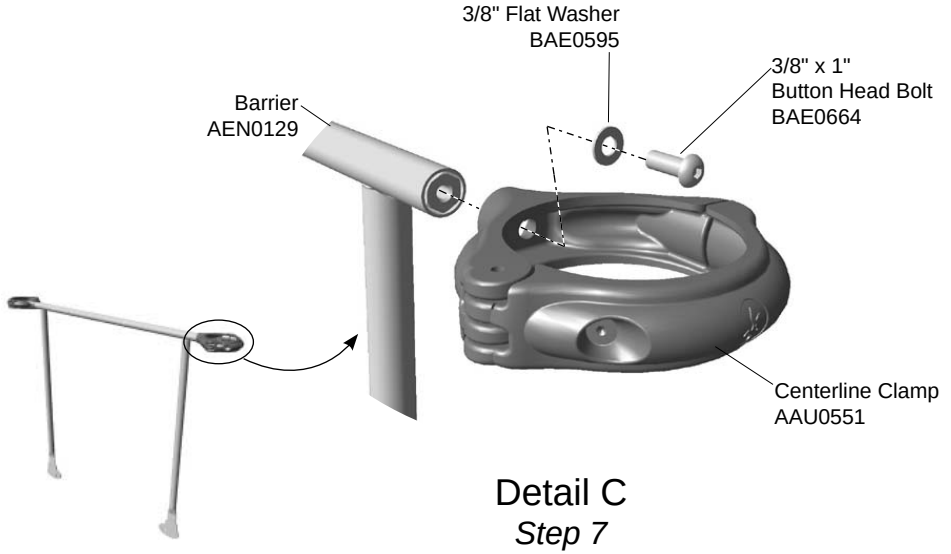
Detail A
Step 4



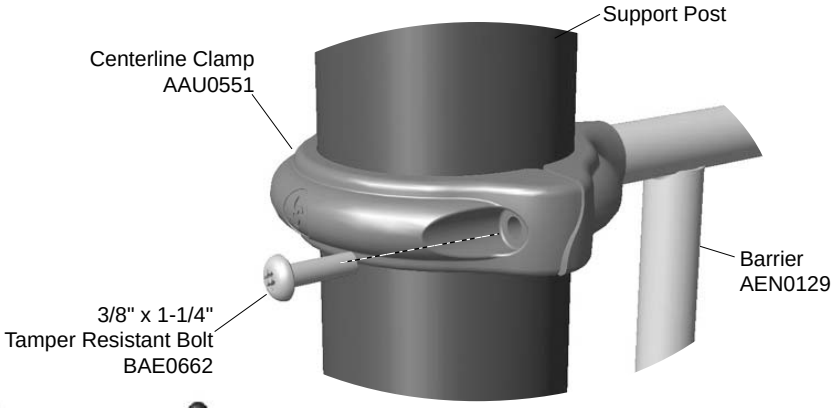
Detail B-2
Step 6



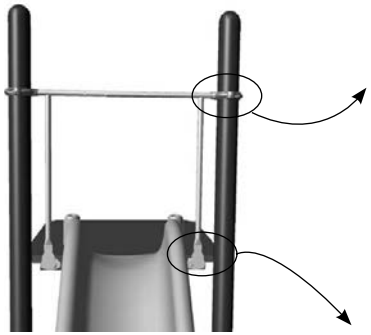
Detail B-1
Step 5

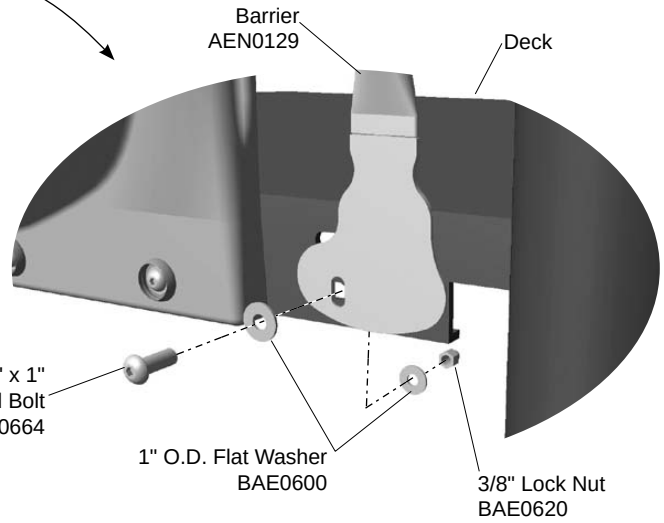


Detail C
Step 7

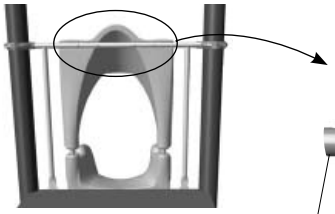


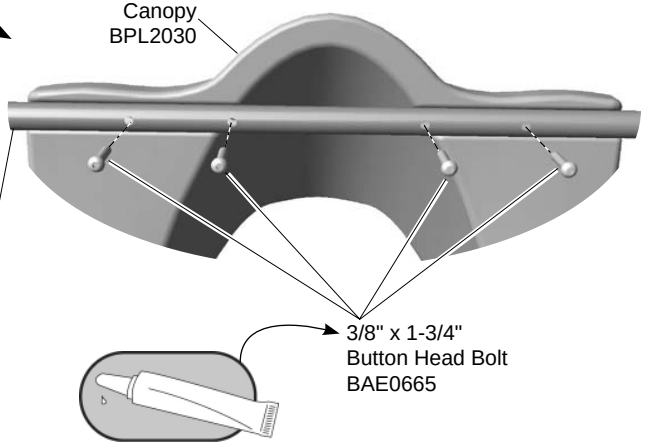
Detail D-1
Step 8



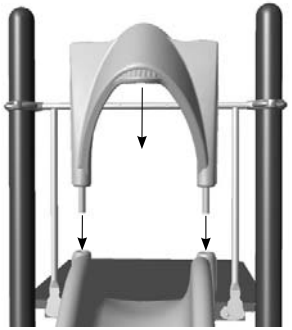


Detail D-2
Step 9

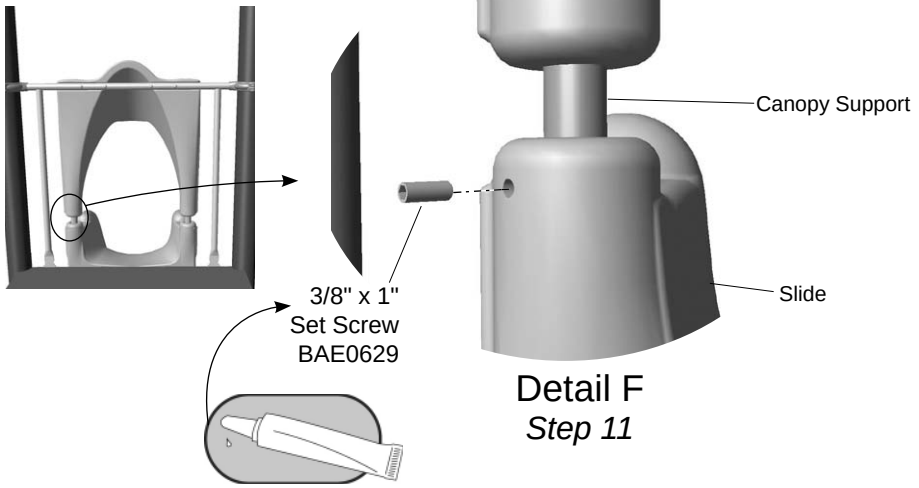




Detail E-2
Step 10

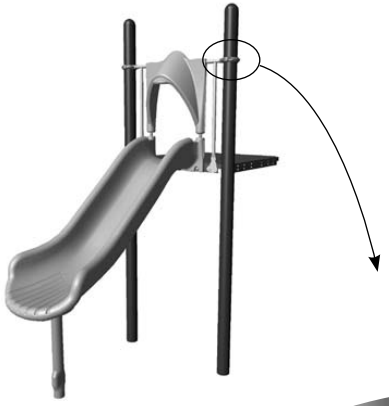


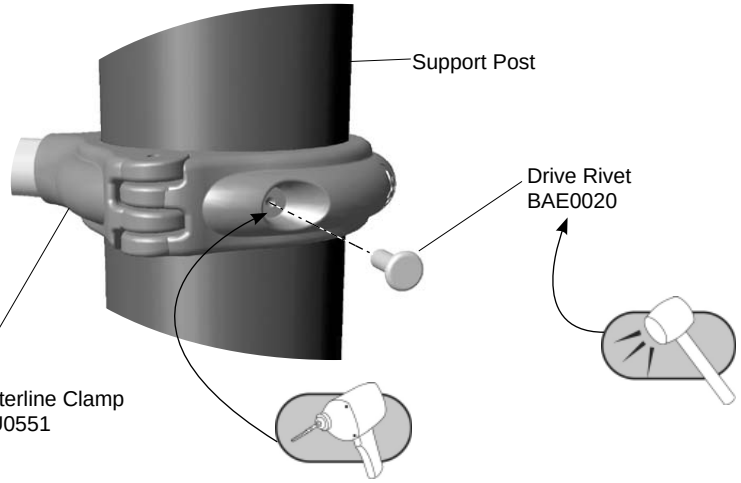
Detail E-1
Step 10



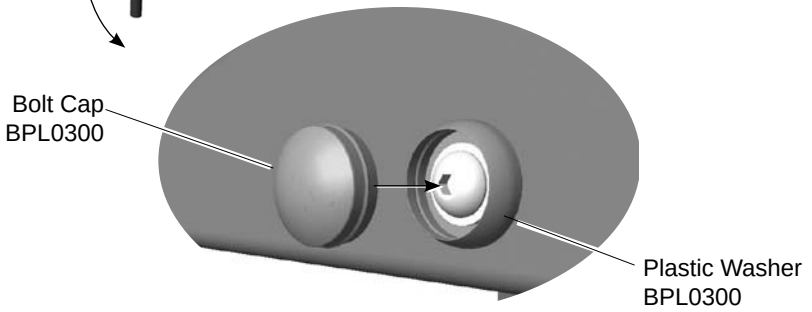
Detail F
Step 11

Step 12





Detail G
Step 13



Detail H
Step 14
(refer to Detail B-2 also)

__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete. Do not install bolt caps until the structure is completely assembled and properly footed.

Carefully read and understand these installation instructions before you begin.

__**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__**Step 2:** Separate and identify all components and hardware.

__**Step 3:** Lay out the footings as shown on the structure master footing diagram. Excavate the holes as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this booklet.

Attach the exit support post to the slide.

__**Step 4:** Attach the exit support post to slide. See **Detail A**. Select the slide, the exit support post and the appropriate hardware. Place the exit support post into the indentation under the slide. Using a drop of loctite on the bolt threads, attach as shown. Fully tighten the connections.

Attach the slide to the deck.

__**Step 5:** Attach the slide to the deck. See **Detail B-1**. Select the slide and the appropriate hardware. Position the slide against the deck and align holes in the slide with those in the deck. Use an alignment tool through the lower outside holes to hold it in place. Make the *upper* attachments from underneath the deck and using loctite on the bolts. Attach as shown. *The middle of the slide bedway should be flush to, and level with the deck.* Leave connections loose for alignment adjustments.

__**Step 6:** Make the *lower* attachments to the slide and deck. See **Detail B-2**. Select the appropriate hardware. Make the lower attachments as shown. Leave the connections loose. Do not attach bolt caps until the structure is completely assembled and properly footed.

__**Step 7:** Connect the clamps to the barrier top rail. See **Detail C.** Select (2) two centerline clamps, the barrier and the appropriate hardware. Place a clamp against each end of the top rail and attach as shown. Turn the clamps so that the hinges are on the same side and fully tighten the connections.

__**Step 8:** Attach the barrier to the posts. See **Detail D-1.** Select the barrier and appropriate hardware. Position the barrier between the posts and close the clamps around the posts. Thread a bolt into each clamp as shown. Leave the connections loose.

__**Step 9:** Attach the bottom of the barrier to the deck. See **Detail D-2**. Select the appropriate hardware. Attach as shown using either set of holes in the deck. The lower holes are the preferred location, but use whichever suits the location of the adjacent clamps.

Secure the canopy to the slide.

__**Step 10:** Position and attach the canopy. See **Details E-1 and E-2**. Select the slide canopy and the appropriate hardware. Place the canopy above the slide and slide the canopy supports into the sockets in the slide until fully seated. The top rail should fit into the indentation in the back of the canopy. Using loctite on the bolts, attach the barrier to the canopy as shown. If there is a clamp conflict the barrier can be moved up to 40" (1016 mm).

__**Step 11:** Secure the lower canopy supports to the slide. See **Detail F**. Select (2) two 3/8" x 1" set screws. Apply a drop of loctite to the screw threads and thread each screw into the slide until the screw is tight against the canopy supports.
Note: It may be necessary to use a 3/8" -16 tap to clean excess plastic to allow the screw to contact the canopy support.

Final Details.

__**Step 12:** Plumb and level the entire slide. Tighten **all** fasteners keeping all the joints flush and even. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure. Adjust the exit height of the slide so it will not hold water. See **Elevation View**.
24" - 48" Slides: The slide height can be adjusted to avoid retaining water but can be no greater than 11 in. (279 mm) from the protective surfacing.
60" - 72" Slides: The slide height can be adjusted to avoid retaining water but can be no less than 7 in. (178 mm) and no greater than 15 in. (381 mm) from the protective surfacing.

Torque specifications :

Nuts and Bolts: Snug tighten and tighten an additional one-half turn.
Set Screws: Snug tighten and tighten an additional turn.

__**Step 13:** Install drive rivets. See **Detail G.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

__**Step 14:** Select the plastic bolt caps and press into the plastic washers. See **Details B-2 and H**. The bolt caps install more easily when they are warm.

__**Step 15:** Apply the hood string entanglement warning label to the equipment at eye level.

PM2658 - 60 in. (1524 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2032	SLIDE - 60" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM2696 - 72 in. (1829 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2033	SLIDE - 72" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3126 - 48 in. (1219 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2031	SLIDE - 48" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3127 - 36 in. (914 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2035	SLIDE - 36" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

PM3128 - 24-30 in. (610-762 mm) GLIDE SLIDE

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AEN0129	BARRIER - 1.315" O.D. x 41.00" x 42.10"	1
APT0216	POST - 3-1/2" O.D. x 28-3/4" EXIT SUPPORT	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	6
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0629	SCREW - 3/8"-16 x 1" SOCKET SET SS	2
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	8
BPL0300	CAP - 3/8" BOLT	4
BPL2030	CANOPY - SINGLE GLIDE SLIDE	1
BPL2036	SLIDE - 30"/24" SINGLE GLIDE	1
ALB0030	LABEL-HOOD STRING ENTNGLMNT WRNG LABEL	1

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570-522-9800 OUTSIDE U.S.
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Assembly View *(representative model)*

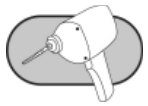
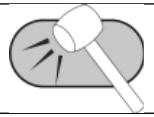
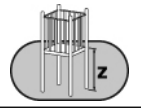
Installation Instructions

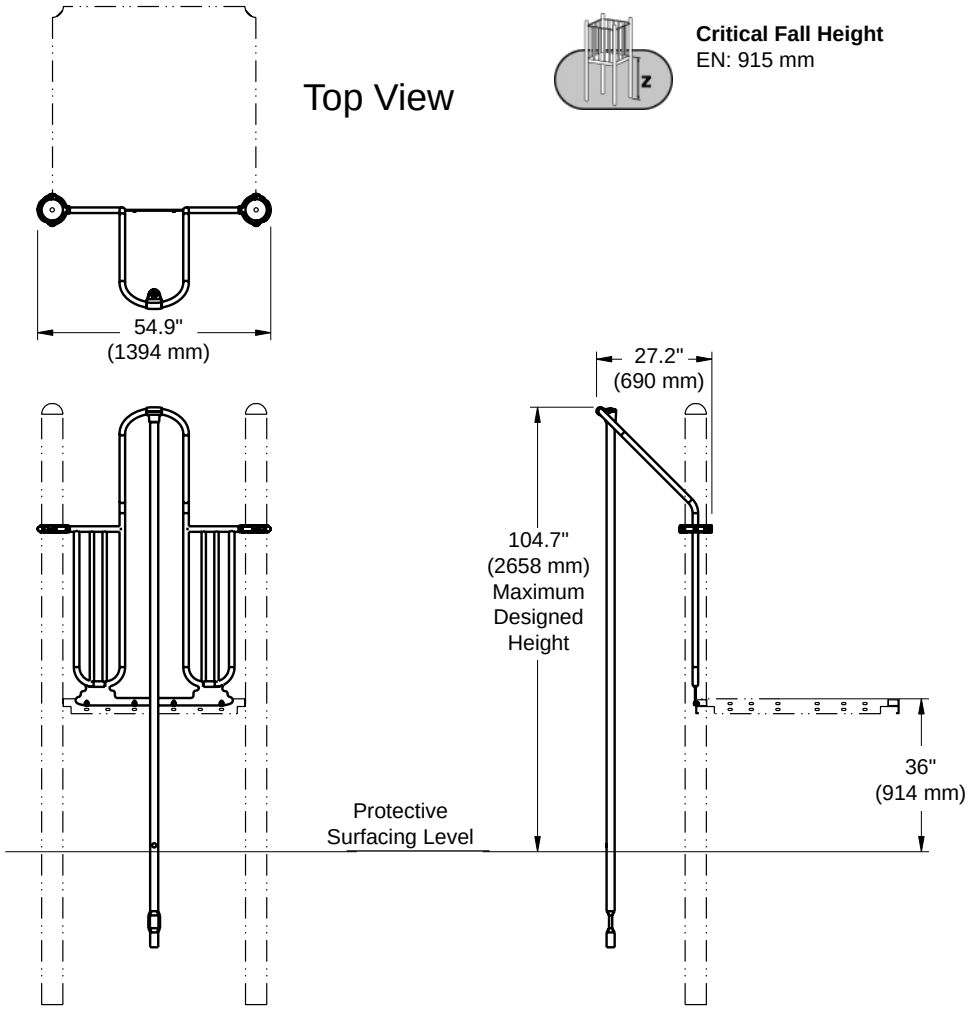
Playmakers® Model PM8060, PM8070, PM8080, and PM8090 Sliding Pole 36 in. (915 mm), 48 in. (1220 mm), 60 in. (1525 mm), and 72 in. (1830 mm) Decks

Installation Preparation

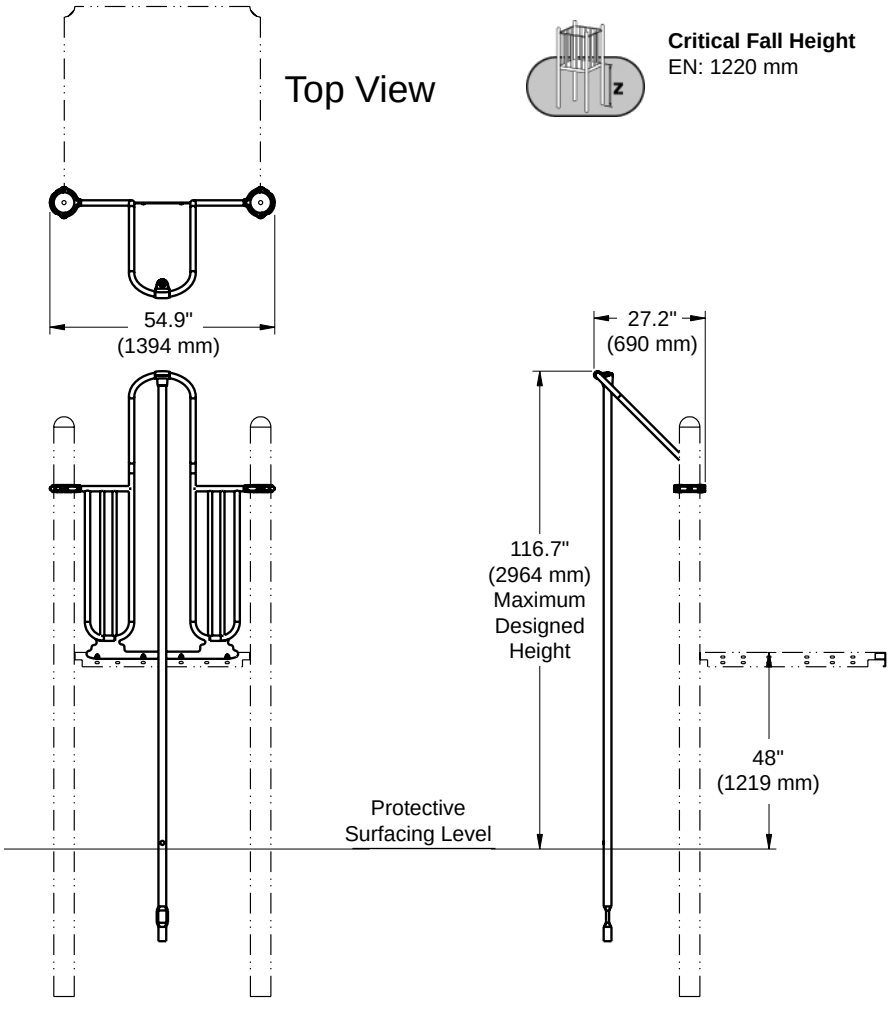
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1.5 man-hours
Weight: ..... (refer to table)
Concrete Required: ..... 0.03 cubic yard (0,02 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

Model	Deck Height	Weight
ZZPM8060	36" (915 mm)	66.5 lbs. (30.2 kg)
ZZPM8070	48" (1220 mm)	68.4 lbs. (31.1 kg)
ZZPM8080	60" (1525 mm)	69.7 lbs. (31.7 kg)
ZZPM8090	72" (1830 mm)	71.6 lbs. (32.5 kg)

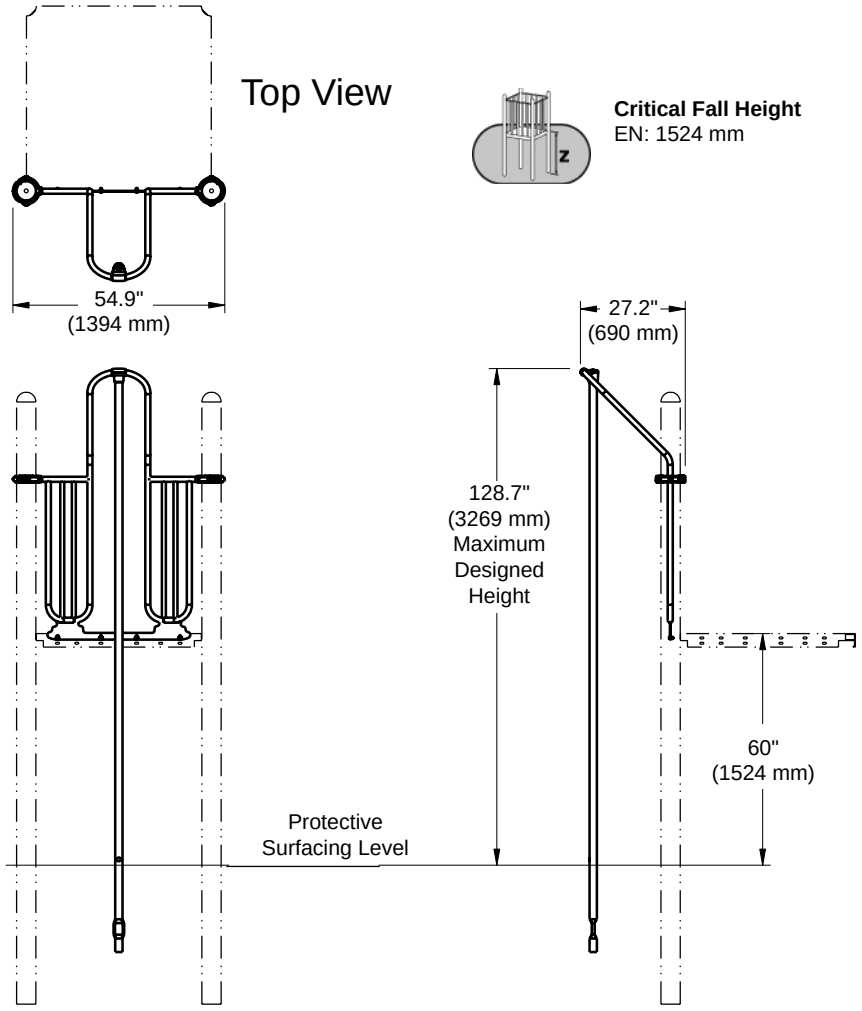
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



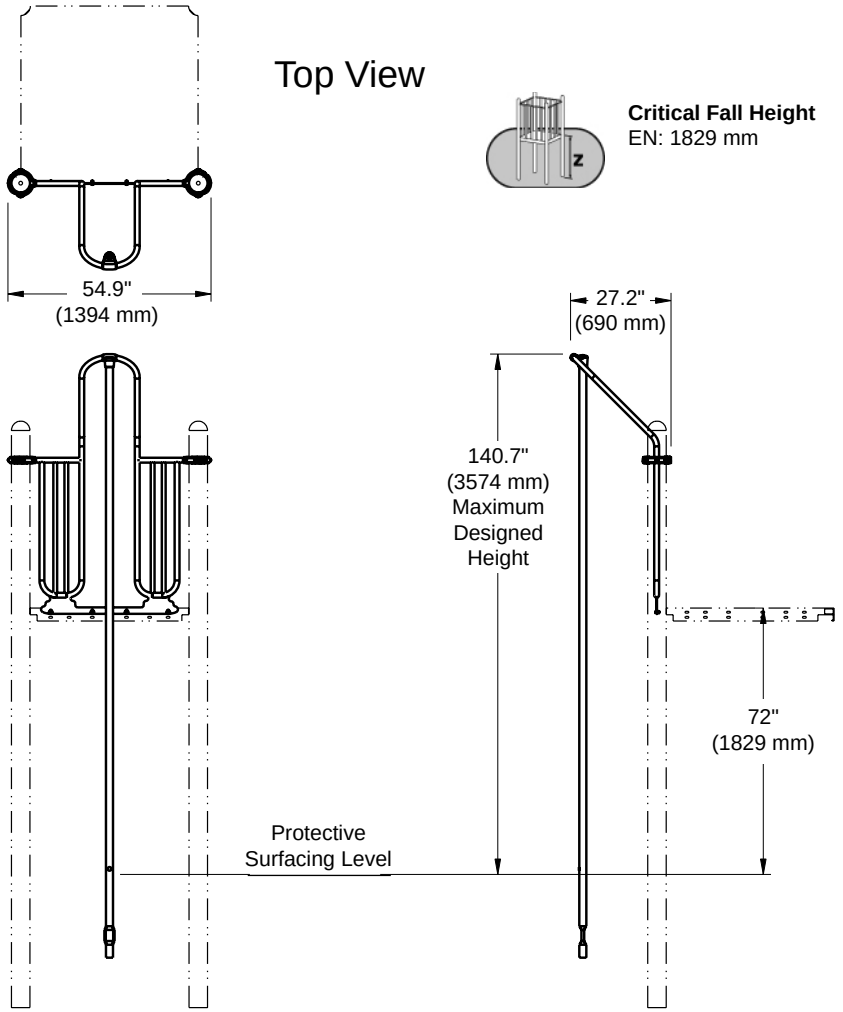
Elevation View
36 in. (914 mm) Deck



Elevation View
48 in. (1219 mm) Deck



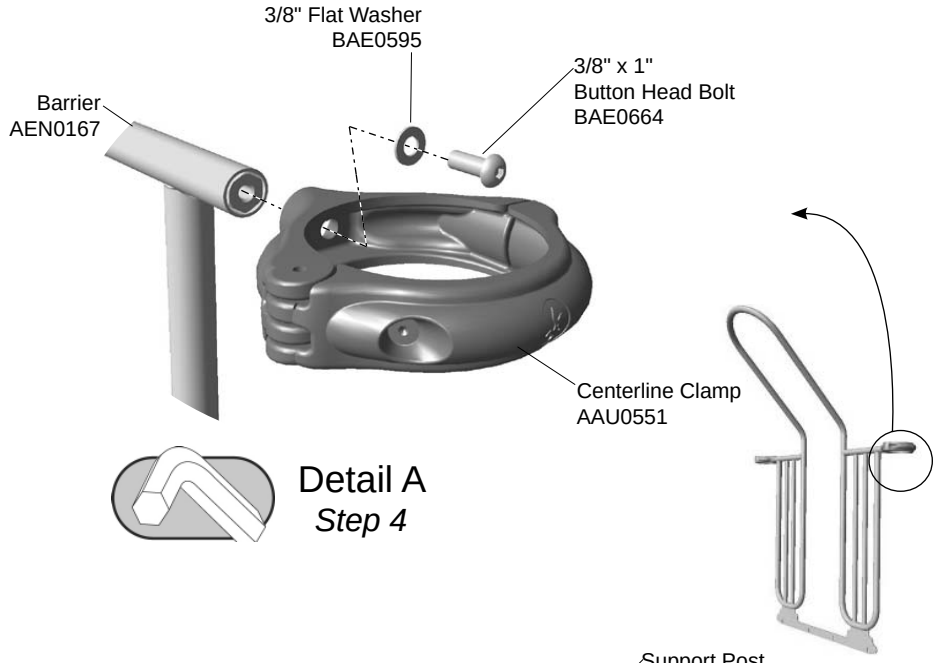
Elevation View
60 in. (1524 mm) Deck



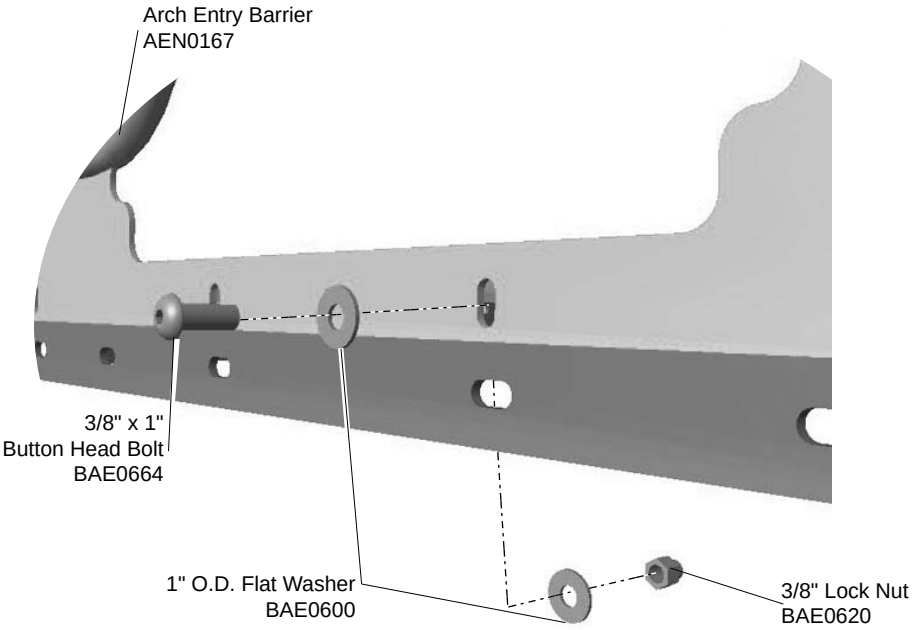
Elevation View
72 in. (1829 mm) Deck

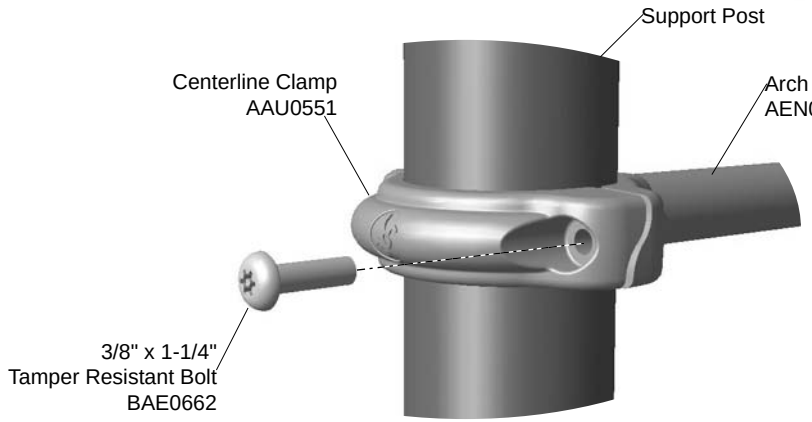
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

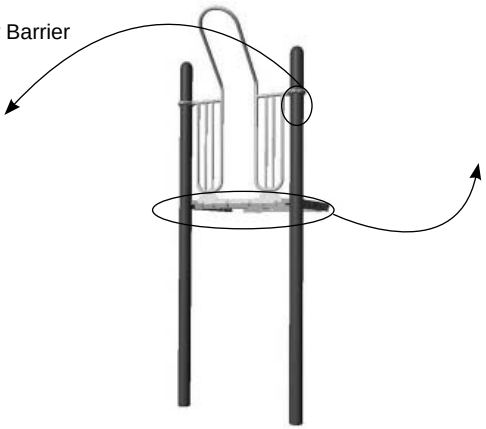


Detail A
Step 4

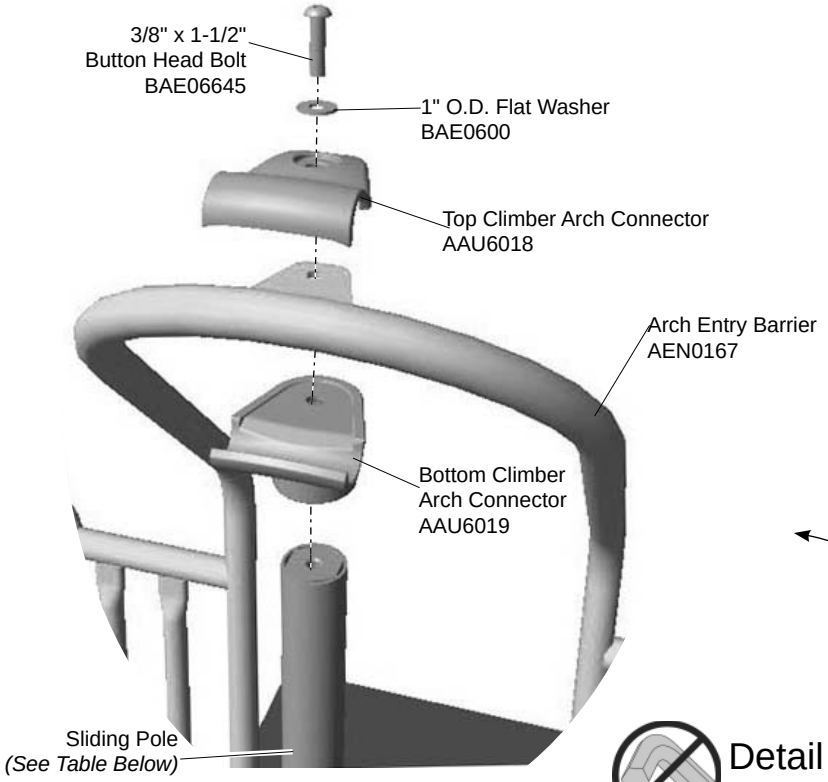


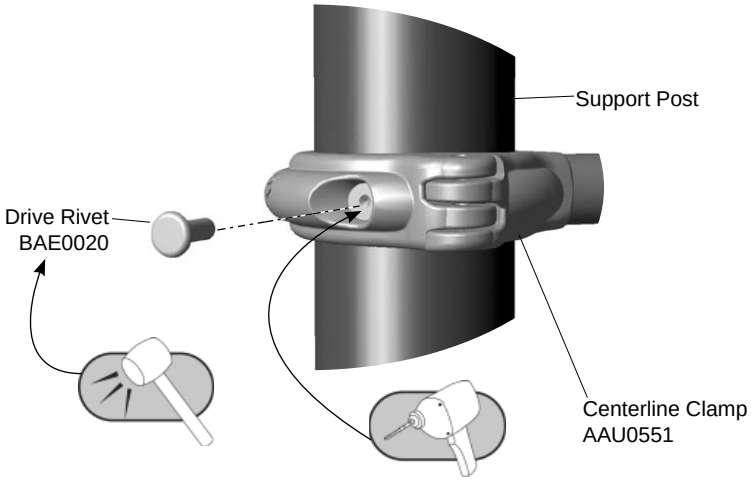


Detail B
Step 5

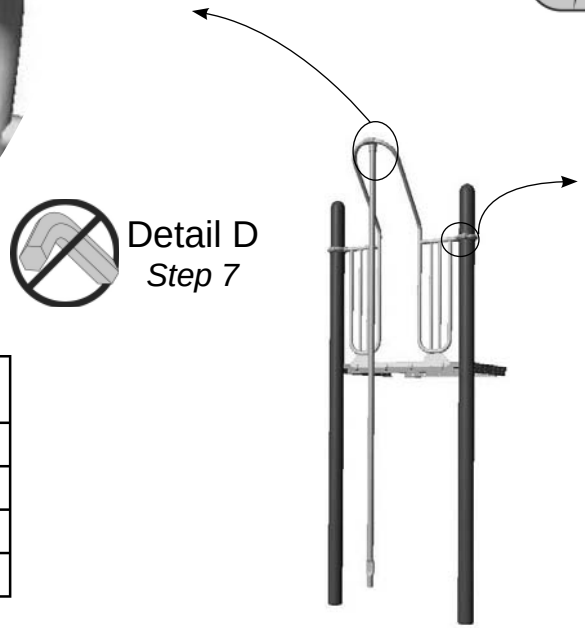


Detail C
Step 6





Detail E
Step 9



Detail D
Step 7

Deck Height	Sliding Pole Part Number
36 in. (914 mm)	AFM0465
48 in. (1219 mm)	AFM0466
60 in. (1524 mm)	AFM0467
72 in. (1829 mm)	AFM0468

__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__**Step 2:** Separate and identify all components and hardware.

__**Step 3:** Excavate holes as shown in the **Footing Details**.

Attach the clamps to the arch entry barrier.

__**Step 4:** Attach the clamps to the barrier. See **Detail A**. Select the arch entry barrier, centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against an end of the barrier top rail and align holes. Attach as shown. Turn the clamp so that the hinge faces away from the entry, and fully tighten bolt.

Attach the clamps to the support posts.

__**Step 5:** Attach the clamps to the posts. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the barrier into position against deck and close the clamps around the posts. Insert and thread each bolt into a clamp. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier to the deck.

__**Step 6:** Attach the barrier to the deck. See **Detail C**. Select the appropriate hardware. The barrier can be attached to either the *top* or *bottom* deck holes to avoid conflicts with adjacent clamps. Attach as shown.

Attach the sliding pole to the barrier.

__**Step 7:** Attach the sliding pole to the barrier. See **Detail D**. Select the sliding pole, the top and bottom climber connectors, and the appropriate hardware. There is (1) one connection. Place the sliding pole into the excavated footing, and attach as shown.

Final Details.

__**Step 8:** Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__**Step 9:** Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM - SLIDING POLE 36 in. (914 mm) DECK (ZZPM8060)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0465	FAB METAL - 36" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 48 in. (1219 mm) DECK (ZZPM8070)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0466	FAB METAL - 48" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 60 in. (1524 mm) DECK (ZZPM8080)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0467	FAB METAL - 60" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

PM - SLIDING POLE 72 in. (1829 mm) DECK (ZZPM8090)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
AAU6018	CONNECTOR - CLIMBER ARCH TOP	1
AAU6019	CONNECTOR - CLIMBER ARCH BOTTOM	1
AEN0167	BARRIER - ARCH ENTRY 69-31/32" x 41"	1
AFM0468	FAB METAL - 72" SLIDING POLE w/LABEL AT 24"	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	9
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	6
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	1

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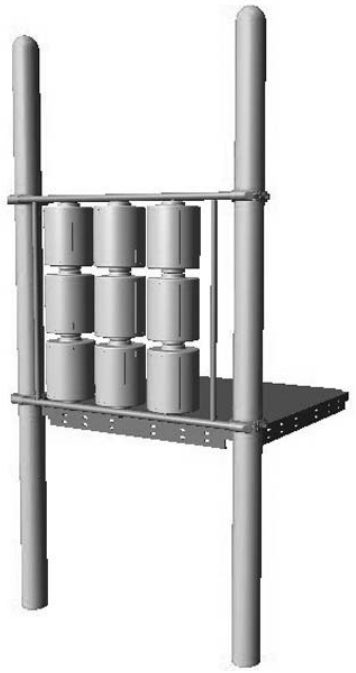
Installation Instructions

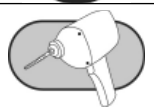
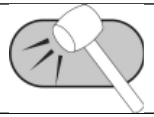
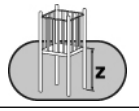
Playmakers® Model PM4350
Tic Tac Toe Activity Wall



Assembly View

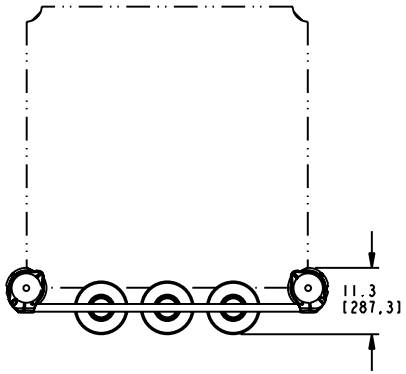
Installation Preparation

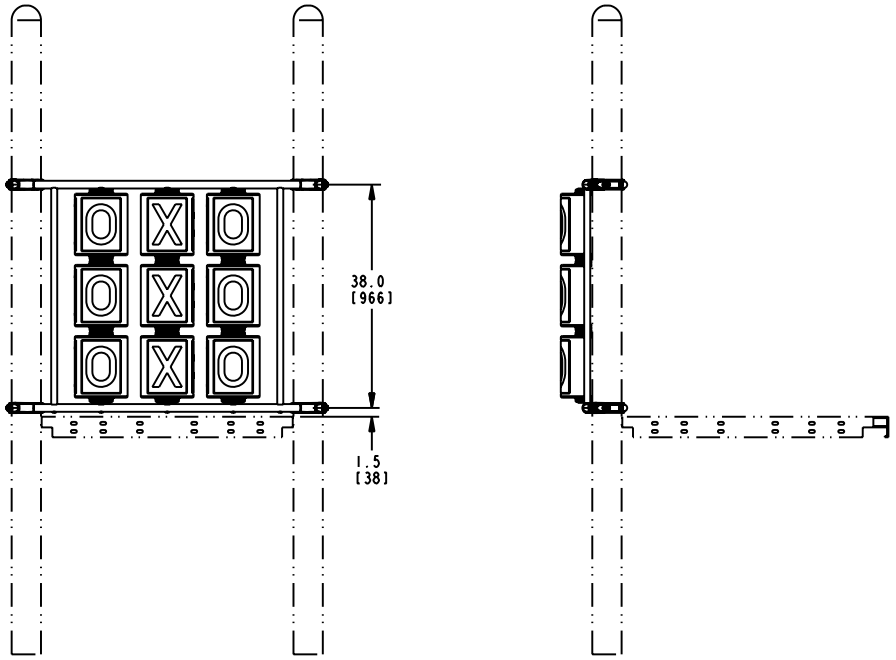
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 0.5 hour
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully TIghten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

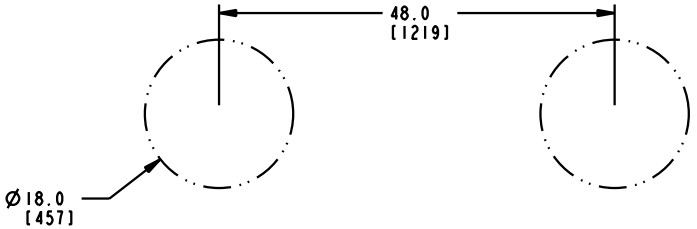
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

Top View





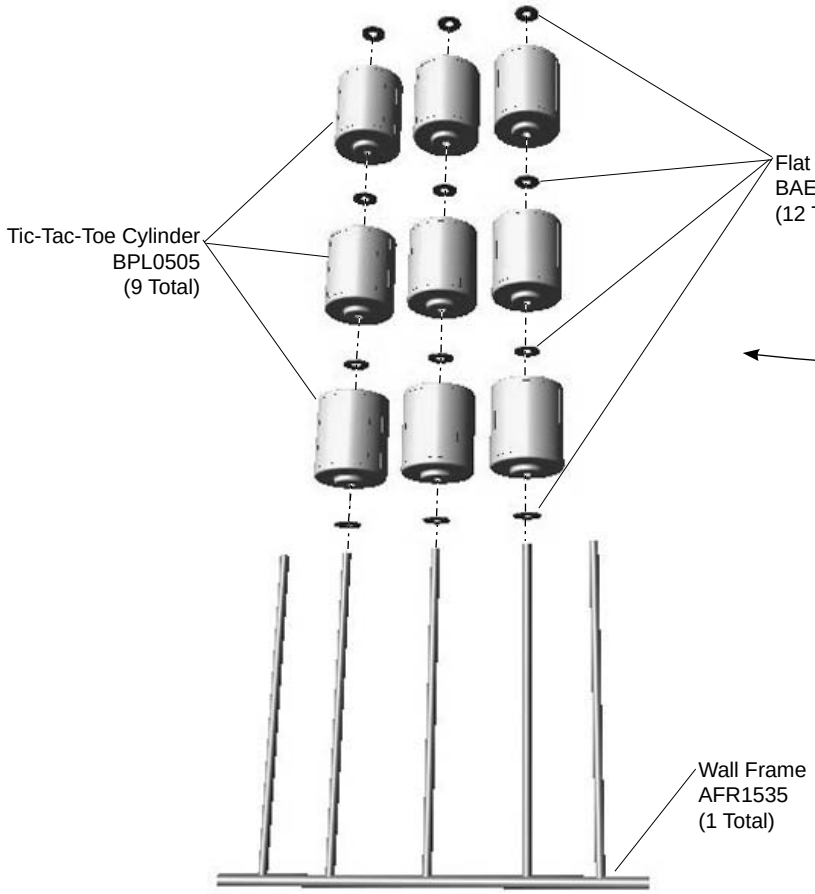
Elevation Views



Footing Diagram

Installation Instructions

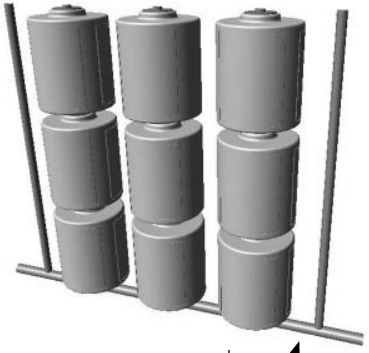
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



Detail A

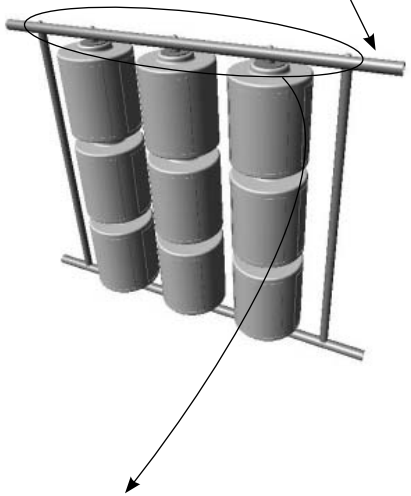
Step 3

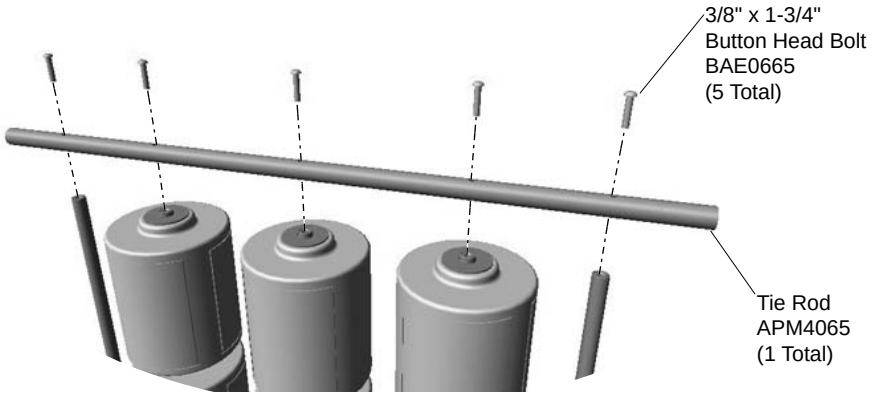
Stack the cylinders onto the wall frame.



Note: *When fully assembled this will be the top of the activity wall.*

Note: *When fully assembled this will be the bottom of the activity wall.*

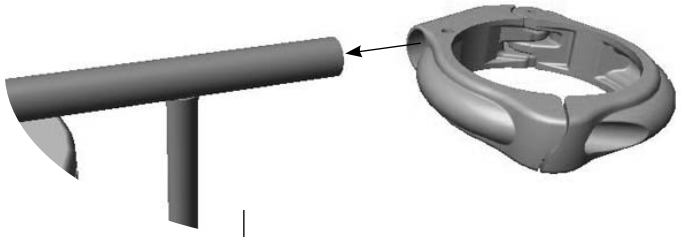


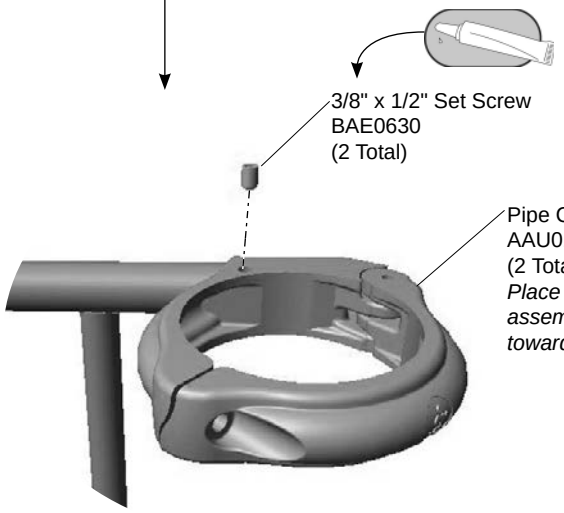


Detail B

Step 4

Attach the tie rod to the wall frame assembly.

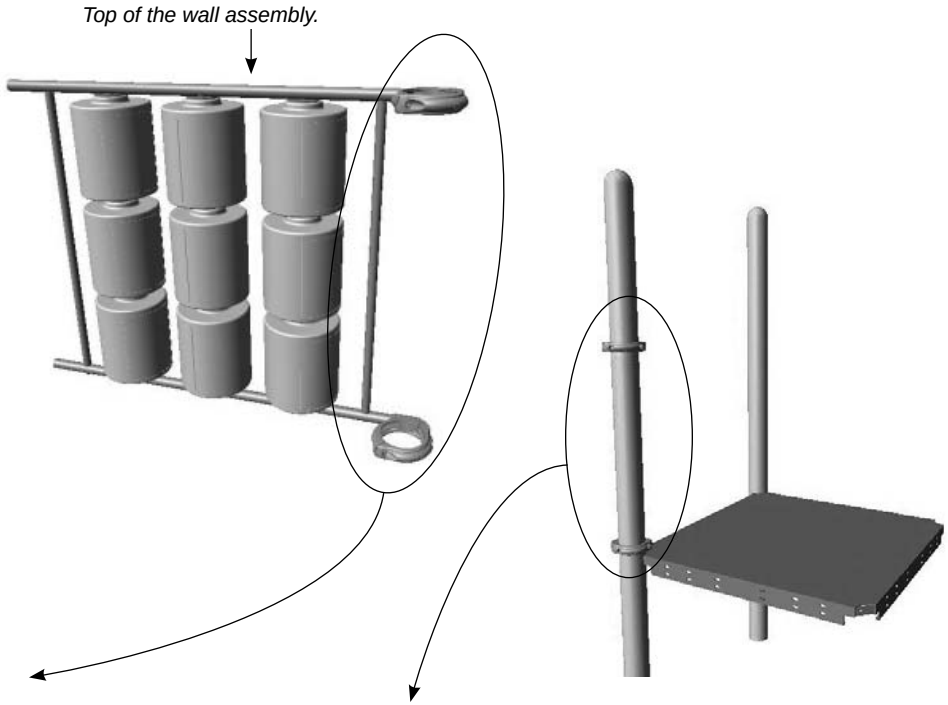


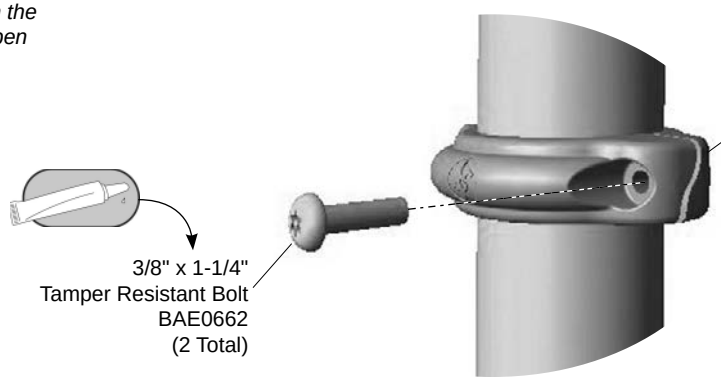


Detail C

Step 5

Flip the wall assembly over from the previous step and attach pipe clamps to one end only of the wall frame assembly.

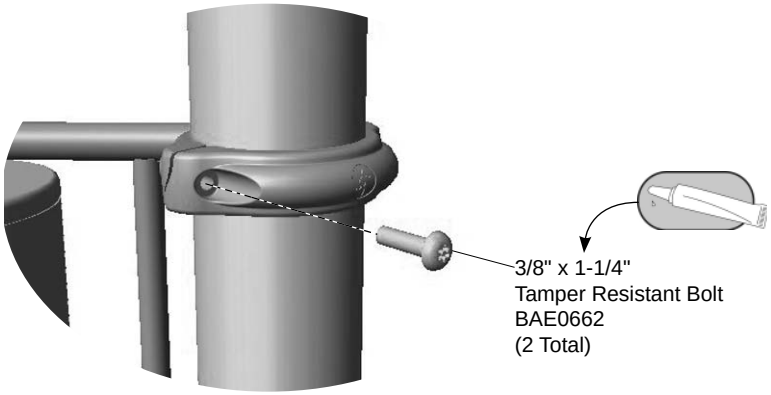




Detail D

Step 6

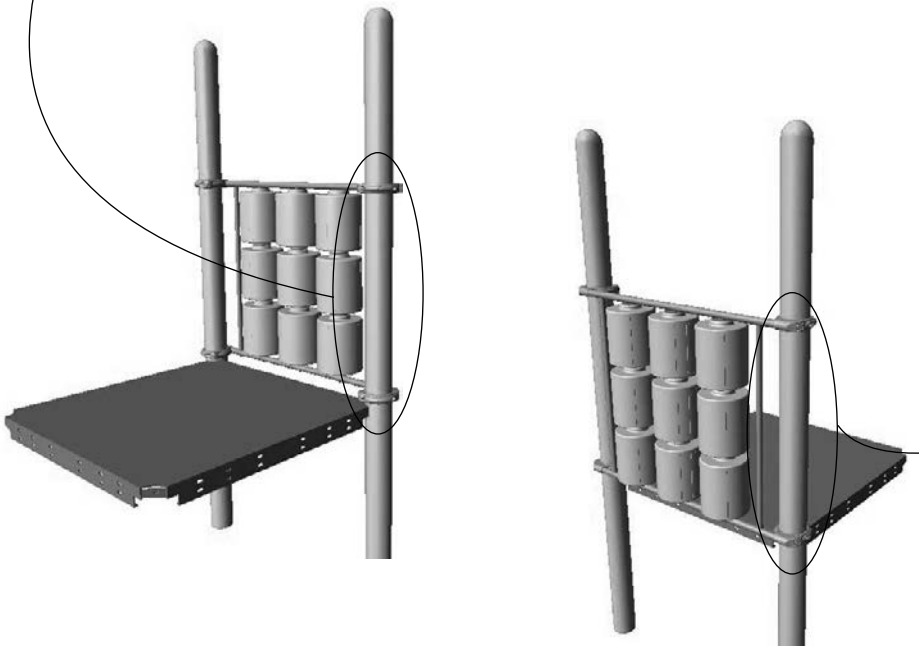
Attach the two remaining pipe clamps to the support posts opposite from where the clamps on the wall assembly will be connected.

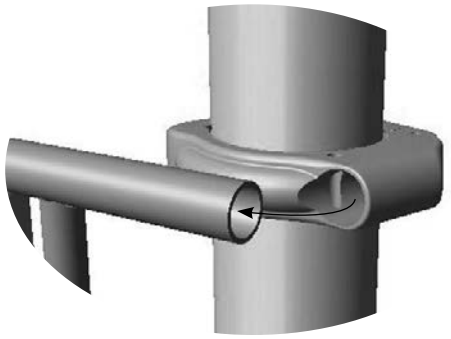


Detail E

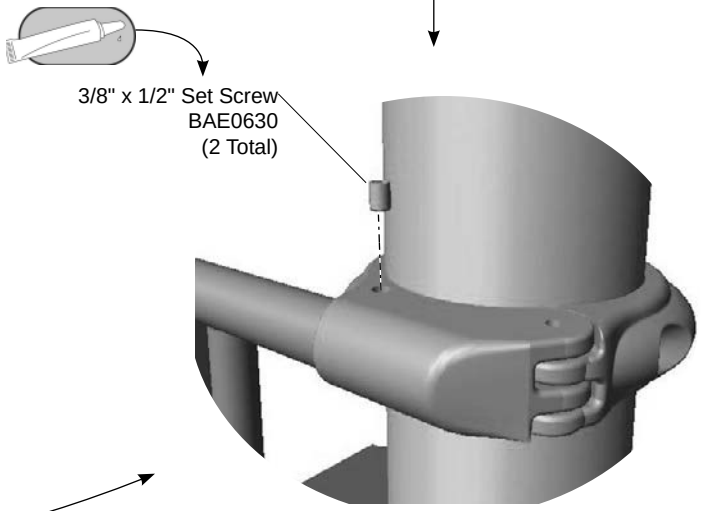
Step 7

Attach the wall assembly to the support post.





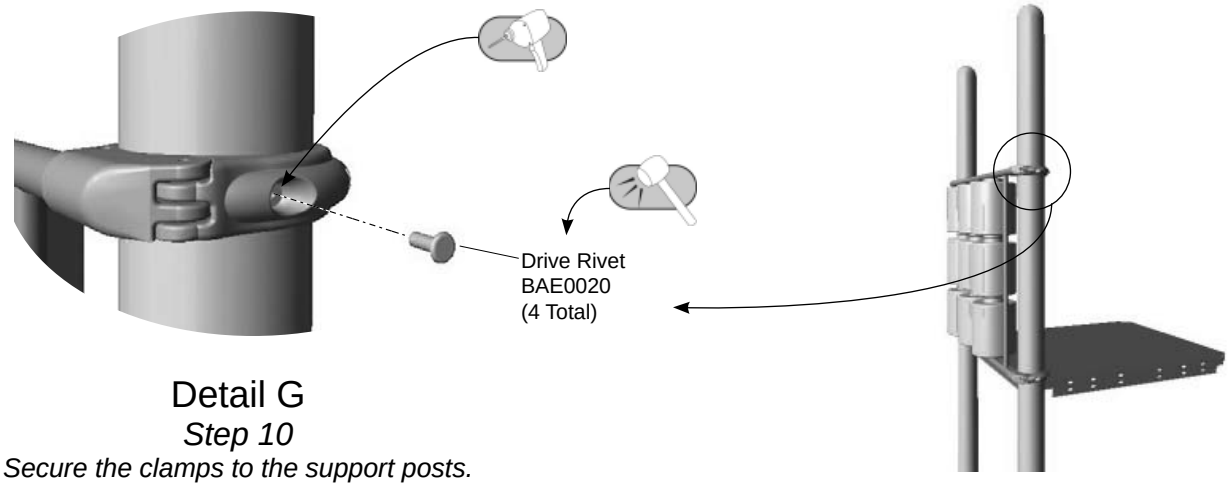
Rotate clamps to accept the open ends of the wall assembly.



Detail F

Step 8

Attach the open ends of the wall assembly to the pre-mounted clamps on the opposite support post.



Detail G

Step 10

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Stack the cylinders onto the wall frame. See **Detail A**. Stack the flat washers and cylinders onto the rungs of the wall frame as shown.

Step 4: Attach the tie rod to the wall assembly. See **Detail B**. Place the tie rod into position over the cylinders, align the holes, and attach as shown to the wall frame rungs. Fully tighten the connections according to tightening torque specifications (See **Final Details**).

Step 5: Flip the wall assembly over from the previous step and attach pipe clamps to one end only of the wall frame assembly. See **Detail C**. Slide a pipe clamp onto one end of both the upper and lower tie rods. Place the clamps on the assembly so they open towards the deck. Apply a drop of loctite to set the screw threads and thread each screw into the *top* of each clamp.

Step 6: Attach the two remaining pipe clamps to the support posts opposite from where the clamps on the wall assembly will be connected. See **Detail D and Elevation View**. Close the clamps on the posts so they open towards the deck and with the clamp socket facing in. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 7: Attach the activity wall to the support post. See **Detail E**. Position the wall assembly between the support posts and close the clamps around the open support post at the height shown in the **Elevation View**. Apply a drop of thread locking adhesive to the bolt threads and attach as shown.

Step 8: Attach the open ends of the wall assembly to the pre-mounted clamps on the opposite support post. See **Detail F**. Rotate the pre-mounted clamps to accept the open ends of the wall assembly. Full seat the ends in the clamps, apply a drop of loctite to the set screw threads and attach as shown. Adjust the activity wall to the specified height and then snug tighten the connections.
Important Note: The height of the activity wall can be adjusted to prevent clamp interference, however, the lower surface of the bottom tie rod cannot be more than 3" (76 mm) above the deck surface.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.
Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

PM4350 - TIC TAC TOE ACTIVITY WALL

PART NO.	DESCRIPTION	QTY.
AAU0145	CLAMP - 5" PIPE DIE CAST	4
AFR1535	FRAME - 1.32" x 38.12" x 49.00"	1
APM4065	FAB METAL - 1.315" O.D. x 49.00" w/5 HOLES	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	5
BAE0937	WASHER - 1-1/8" I.D. x 3-1/4" O.D. FLAT	12
BPL0505	MISC - TIC - TAC - TOE CYLINDERS	1

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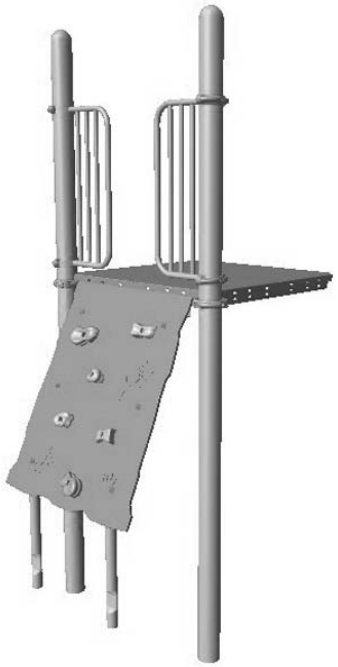
Installation Instructions

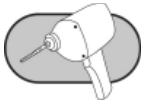
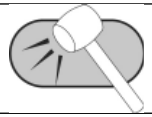
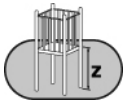
Playmakers® Models PM6979 & PM6986-PM6989
Inclined Cliff Hanger
48" (1219 mm), 60" (1524 mm), 72" (1829 mm), 84" (2134 mm) & 96" (2438 mm) Deck Heights



Assembly View *(representative model)*

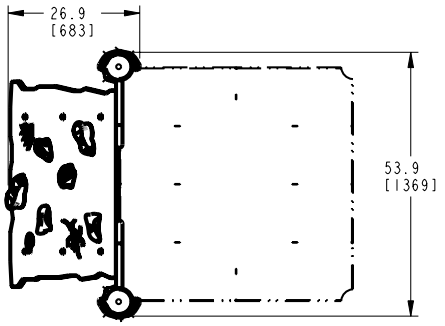
Installation Preparation

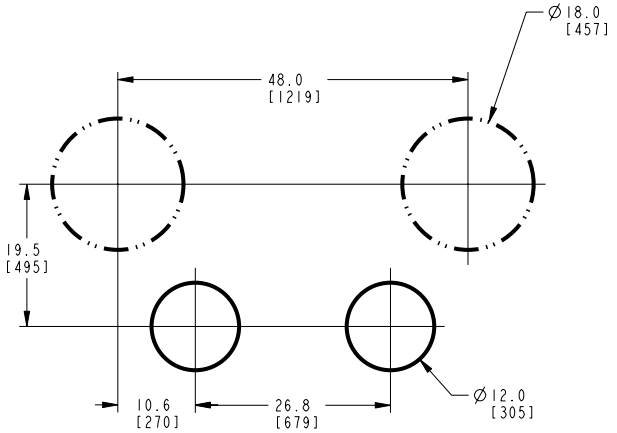
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 2 man-hours
Concrete Required: ..... 0.06 cubic yard (0,05 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

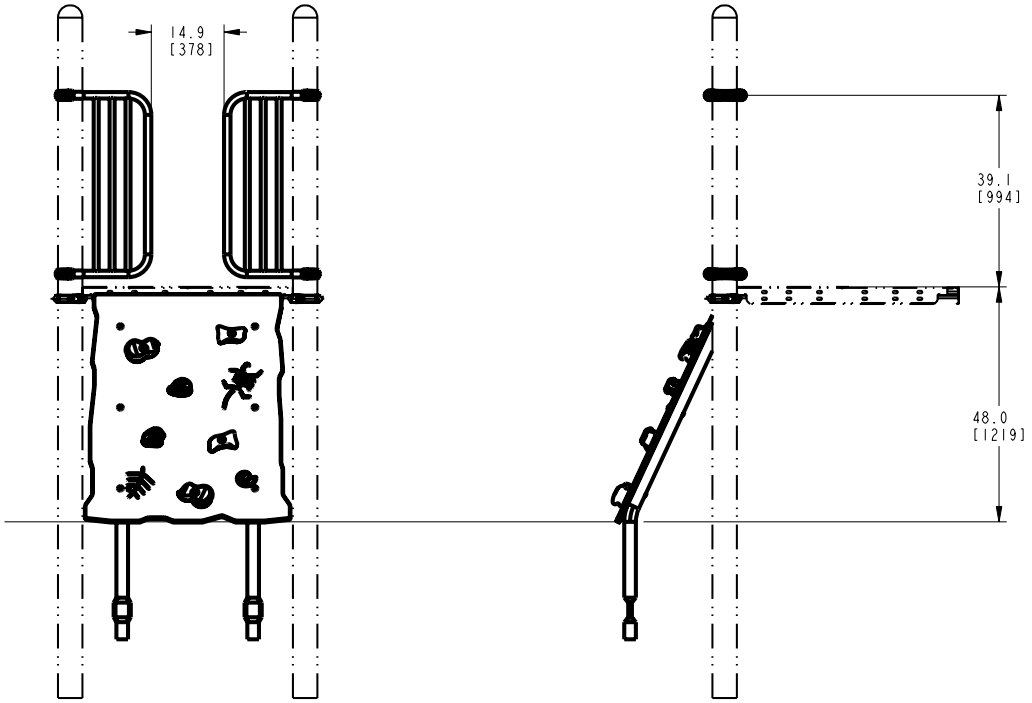
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

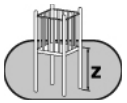
Top View





Footing Diagram



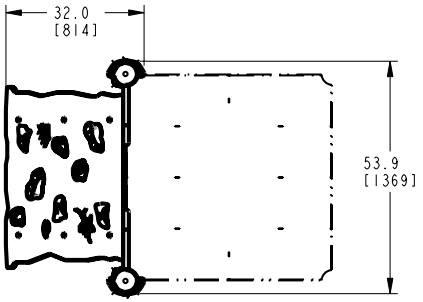


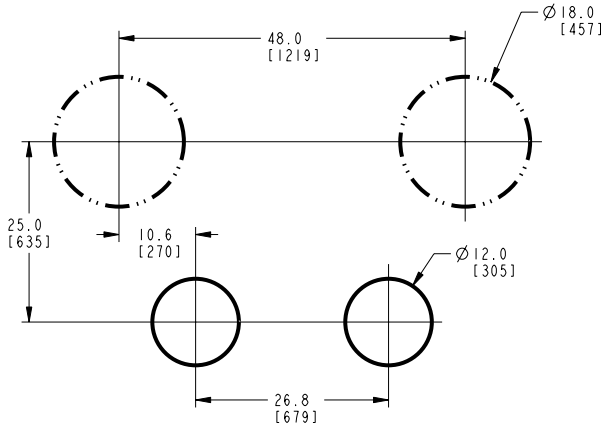
48" (1219 mm)

Elevation Views - PM6987 - 48" (1220 mm) Deck

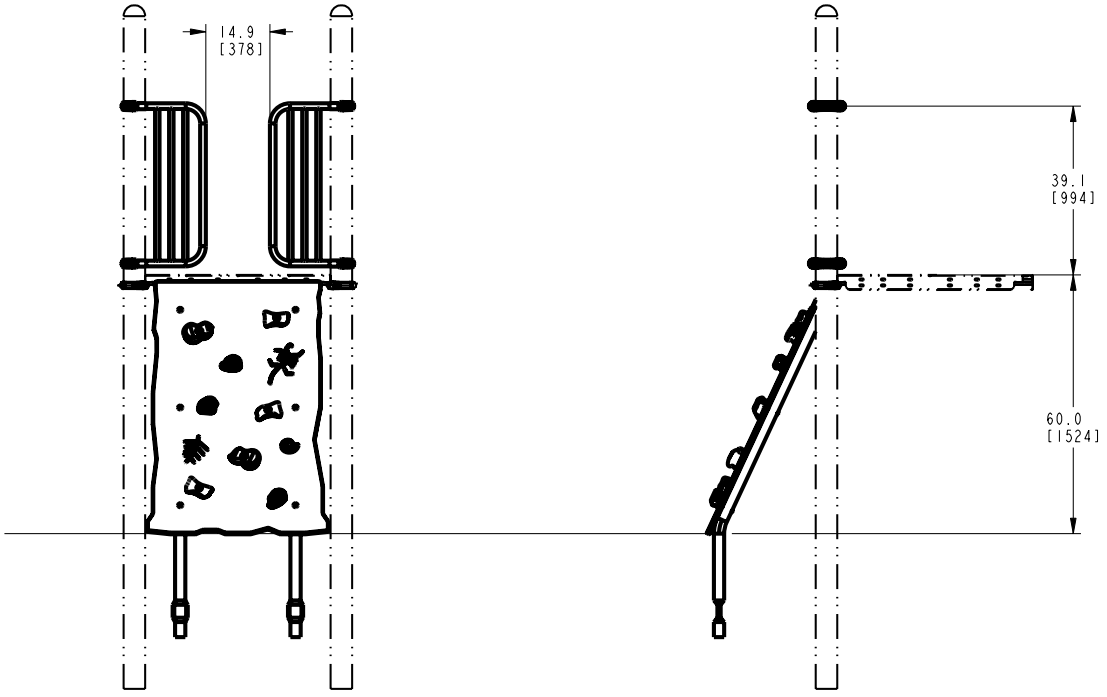
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

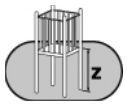
Top View





Footing Diagram



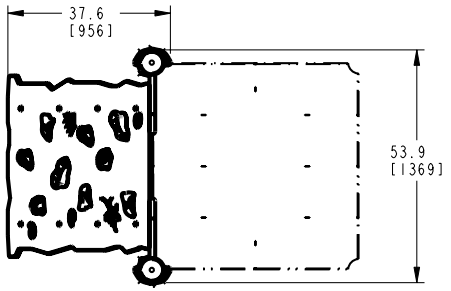


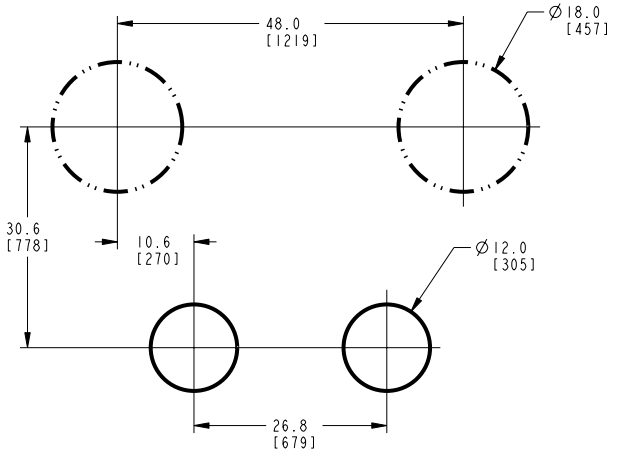
60" (1524 mm)

Elevation Views - PM6988 - 60" (1524 mm) Deck

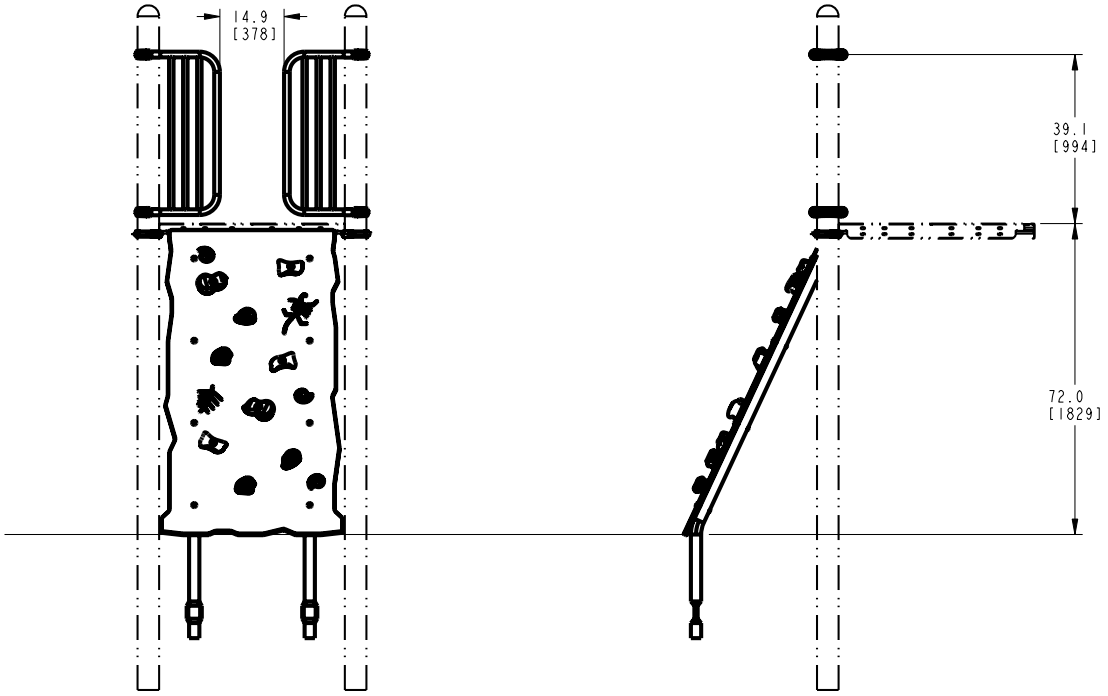
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

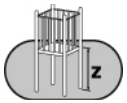
Top View





Footing Diagram



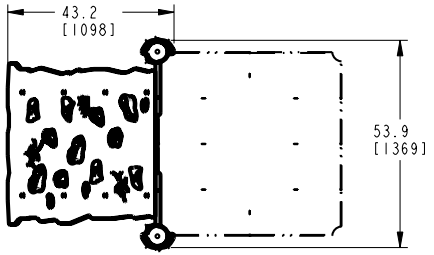


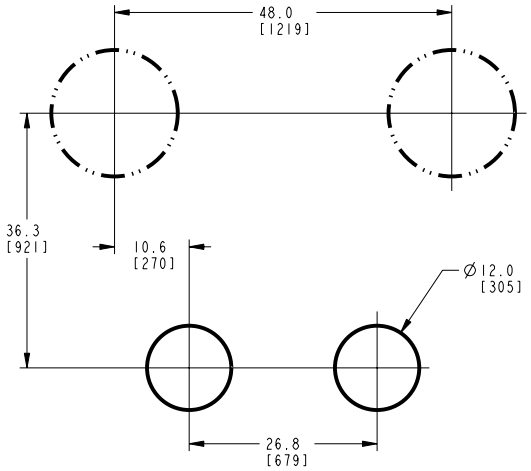
72" (1829 mm)

Elevation Views - PM6989 - 72" (1829 mm) Deck

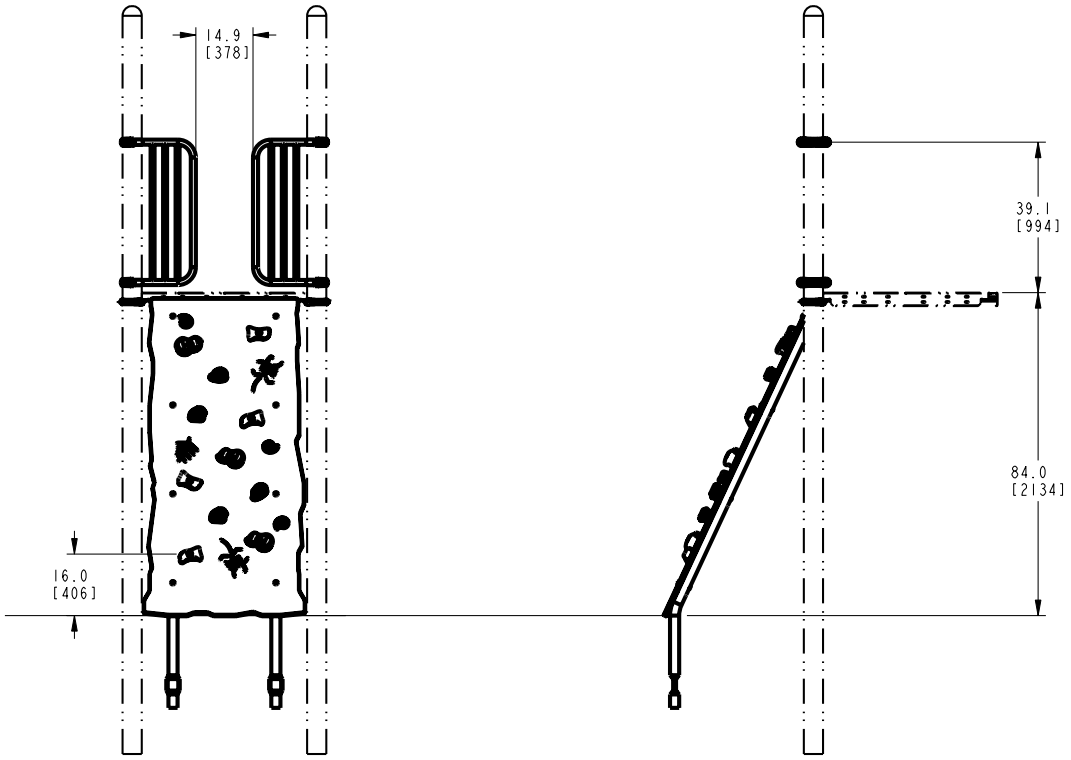
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

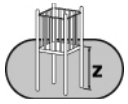
Top View





Footing Diagram



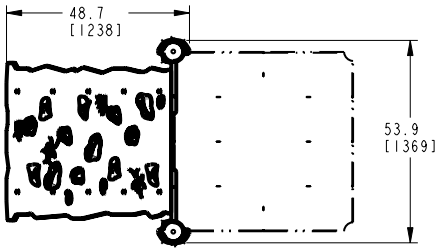


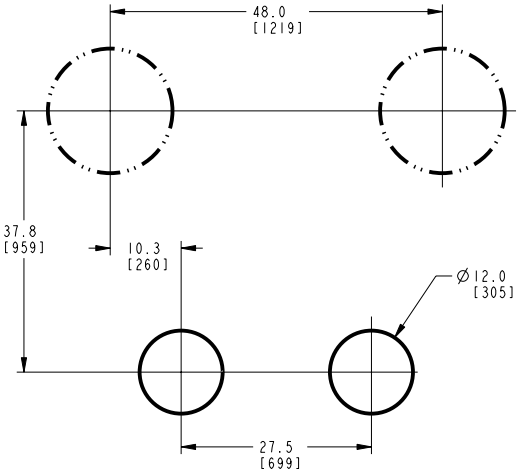
84" (2134 mm)

Elevation Views - PM6986 - 84" (2134 mm) Deck

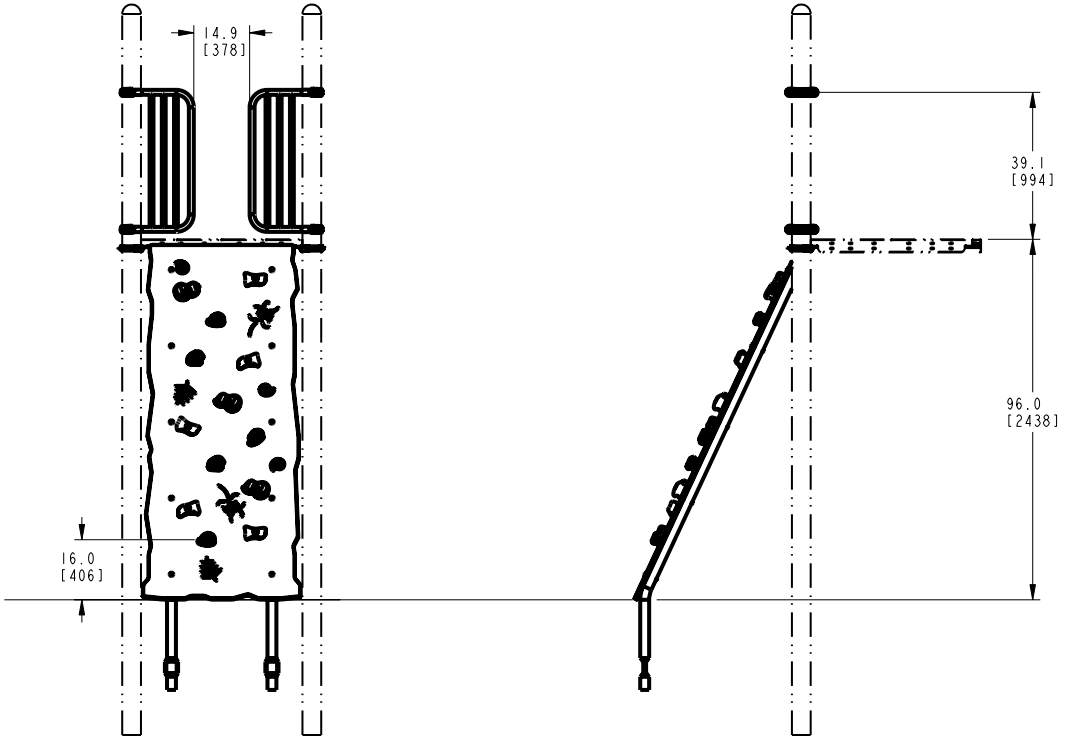
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

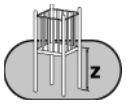
Top View





Footing Diagram



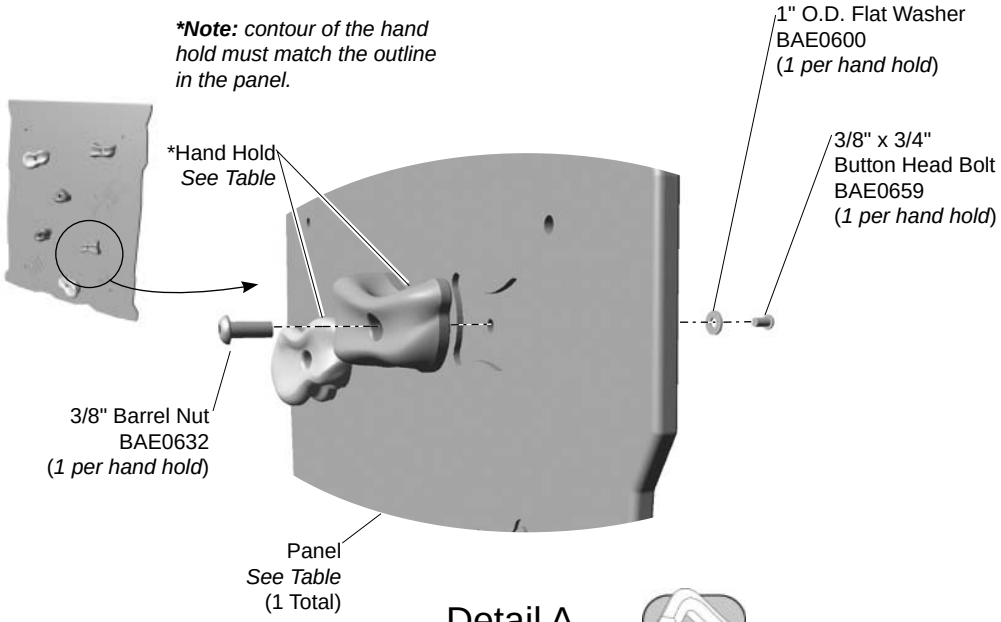


96" (2438 mm)

Elevation Views - PM6979 - 96" (2438 mm) Deck

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.

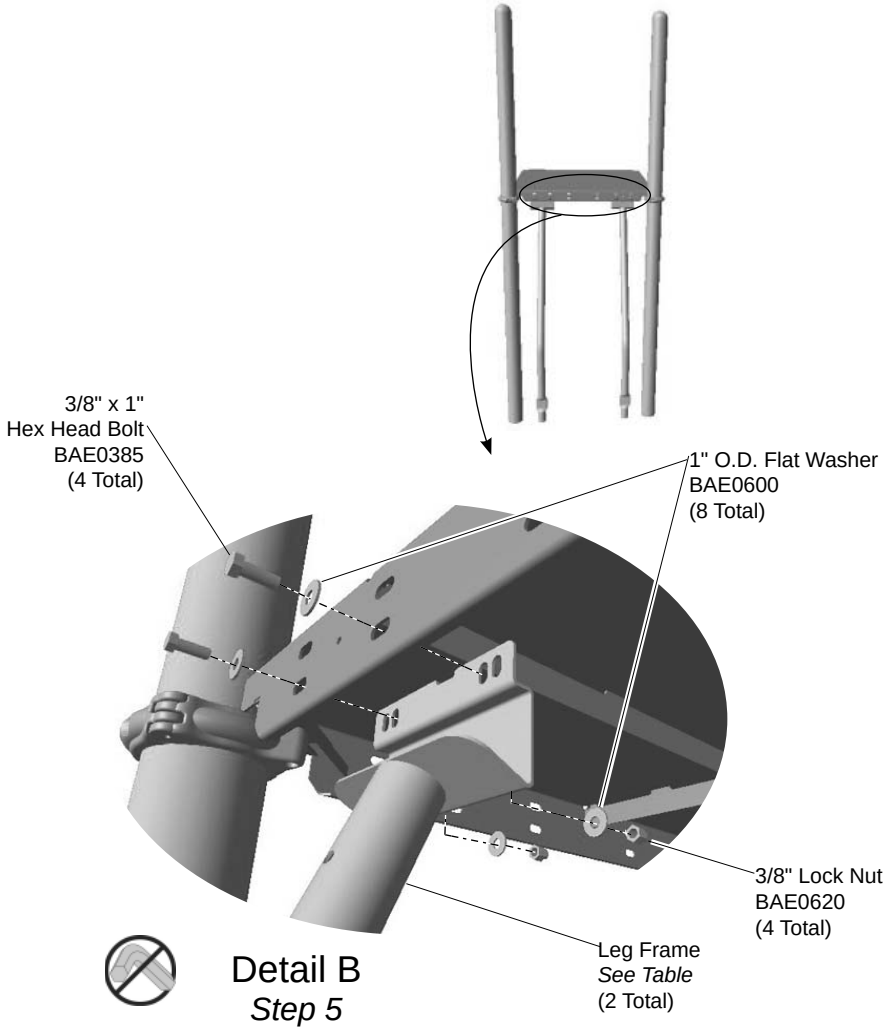


Detail A

Step 4

Attach the hand holds to the panel.

Model	PM6987	PM6988	PM6989	PM6986	PM6979
No. of Small Hand Holds (AAU0067)	2	3	4	4	5
No. of Medium Hand Holds (AAU0068)	2	3	3	4	5
No. of Large Hand Holds (AAU0069)	2	2	2	3	3
Panel Number	BFC3263	BFC3265	BFC3267	BFC3269	BFC3271

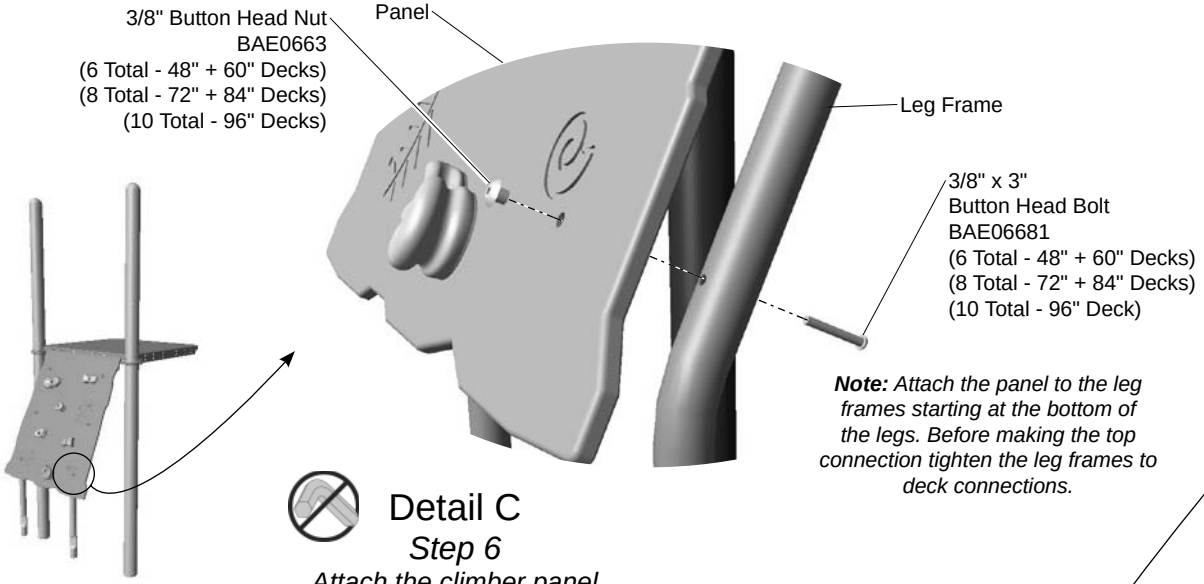


Detail B

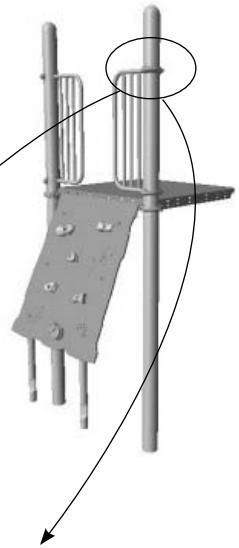
Step 5

Attach the leg frames to the deck. Make the connections through the <u>two</u> <u>middle</u> <u>holes</u> in the leg bracket.

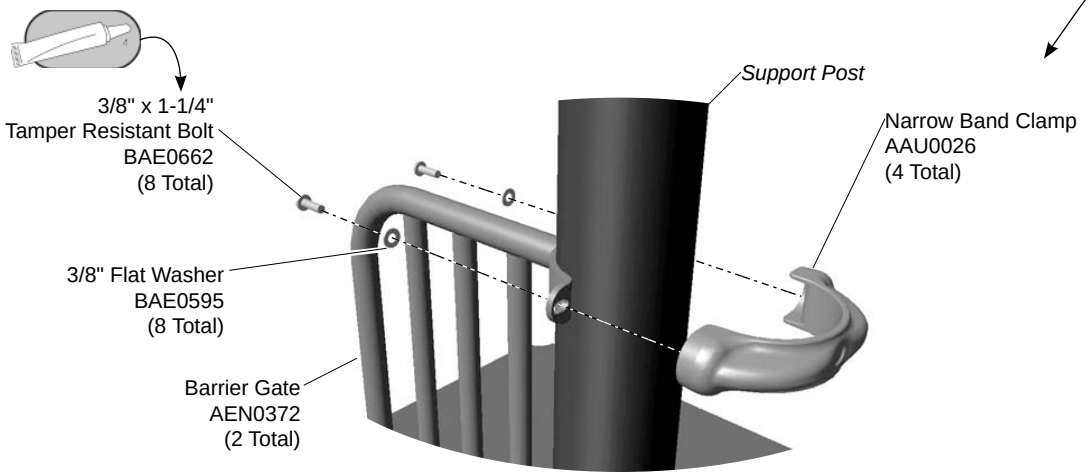
Model	PM6987	PM6988	PM6989	PM6986	PM6979
Leg Frame Part Number	AFR0956	AFR0958	AFR0960	AFR0962	AFR0964



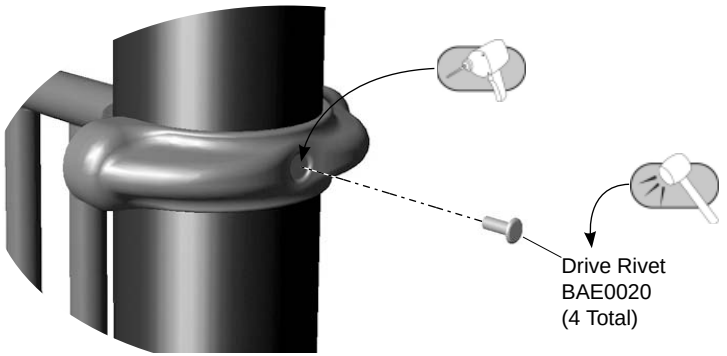
Note: *Attach the panel to the leg frames starting at the bottom of the legs. Before making the top connection tighten the leg frames to deck connections.*



Detail C
Step 6
Attach the climber panel to the leg frames.



Detail D
Step 7
Attach the barrier gates to the support posts.



Detail E
Step 9
Secure the clamps to the support posts.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate the footings as shown in the **Component Footing Details** in the **Guidelines** at the beginning of this instruction book.

Step 4: Attach the hand holds to the panel. See **Detail A.** Position each hand hold against a corresponding cutout in the panel and attach as shown. Fully tighten the hardware according to tightening torque specifications to pull the hand hold into the panel.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 5: Attach the leg frames to the deck. See **Detail B.** Place the frame legs in their footings with the mounting bracket under the deck and align the lower holes. Use the slots indicated on each bracket and attach as shown.

Step 6: Attach the panel to the leg frames. See **Detail C.** Place the panel with the wider part at the bottom and align the side holes with the holes in the leg frames. Attach as shown.

Note: *Attach the panel to the leg frames starting at the bottom of the legs. Before making the top connection tighten the leg frames to deck connections.*

Step 7: Attach the barrier gates to the support posts. See **Detail D.** Place each gate against the post, and align a clamp with each gate band. Apply a drop of loctite to the bolts, and attach as shown. Leave the connections loose. Both gates should be mounted at the same height directly over the deck. The bottom of the gates must be less than 3.5" (89 mm) from the deck surface to prevent any entrapment issues.

Final Details.

Step 8: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and Nuts: Snug tighten and then tighten an additional one half turn.

Step 9: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 10: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM6987 - 48" (1219 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	2
AAU0068	HANDLE - MEDIUM	2
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0956	FRAME - 2.38" O.D. x 70.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	14
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	6
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3263	SHEET - .75" x 42.00" x 51.25"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6988 - 60" (1524 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	3
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0958	FRAME - 2.38" O.D. x 82.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	16
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	8
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	8
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	6
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	6
BFC3265	SHEET - .75" X 42.00" x 64.50"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6989 - 72" (1829 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	3
AAU0069	HANDLE - LARGE	2
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0960	FRAME - 2.38" O.D. x 94.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	17
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	9
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	9
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3267	SHEET - .75" x 42.00" x 77.75"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6986 - 84" (2134 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	4
AAU0068	HANDLE - MEDIUM	4
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0962	FRAME - 2.38" O.D. x 106.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	19
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	11
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	11
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	8
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	8
BFC3269	SHEET - .75" x 42.00" x 91.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM6979 - 96" (2438 mm) INCLINED CLIFF HANGER

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	4
AAU0067	HANDLE - SMALL	5
AAU0068	HANDLE - MEDIUM	5
AAU0069	HANDLE - LARGE	3
AEN0372	BARRIER - 16-7/16" x 37-15/16" GATE	2
AFR0964	FRAME - 2.38" O.D. x 118.27" w/BRACKET	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0385	BOLT - 3/8"-16 x 1 HEX HEAD	4
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	21
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0632	NUT - 3/8"-16 x 1.25 BARREL w/PATCH	13
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	13
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	8
BAE0663	NUT - 3/8"-16 x 7/16" BUTTON HEAD	10
BAE06681	BOLT - 3/8"-16 x 3" BUTTON HEAD - SS	10
BFC3271	SHEET - .75" x 42.00" x 104.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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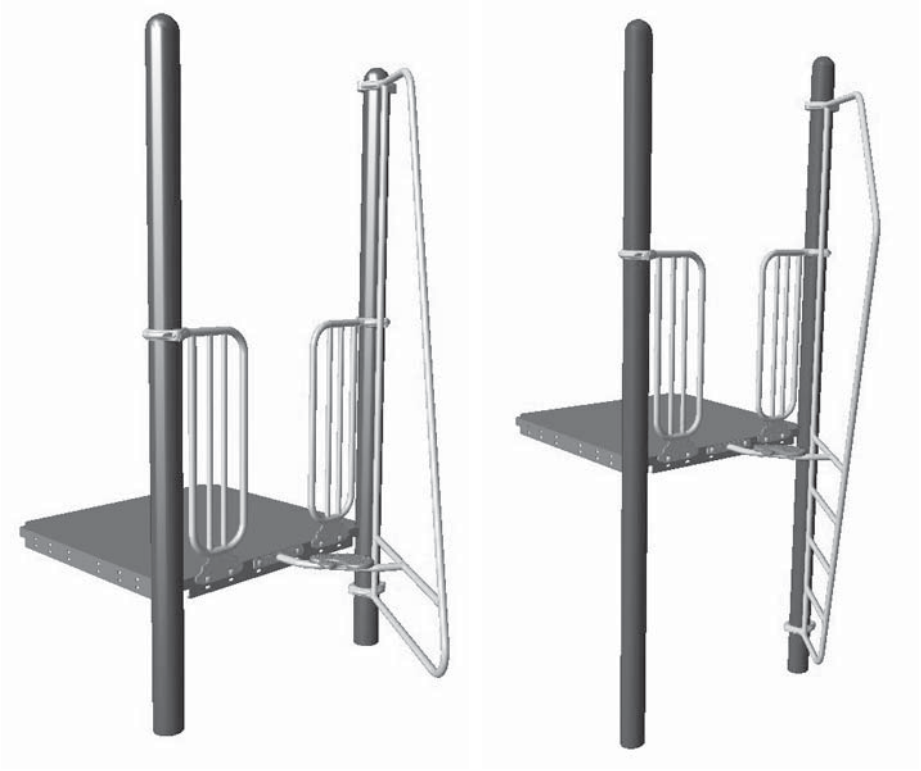


Assembly View *(representative model)*

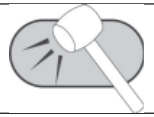
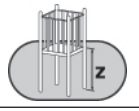
Model	Deck Height	Weight
ZZPM7178	24" (610 mm)	70.1 lbs. (31,9 kg)
ZZPM7179	36" (915 mm)	73 lbs. (33,2 kg)
ZZPM7180	48" (1220 mm)	74.3 lbs. (33,8 kg)
ZZPM7189	48" (1220 mm)	76.5 lbs. (34,8 kg)
ZZPM7190	60" (1524 mm)	79 lbs. (35,9 kg)
ZZPM7196	72" (1829 mm)	81.3 lbs. (37 kg)

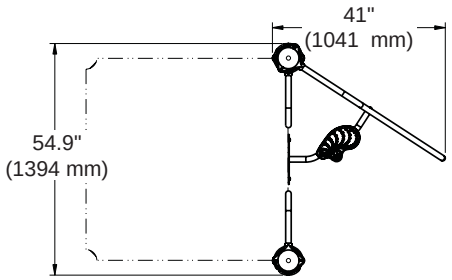
Installation Instructions

Playmakers® Models PM7178, PM7179, PM7180,
PM7189, PM7190, & PM7196
24 in. (610 mm), 36 in. (914 mm), and 48 in. (1219 mm)
Small Angled Climber
48 in. (1219 mm) , 60 in. (1524 mm), and 72 in. (1829 mm)
Large Angled Climber

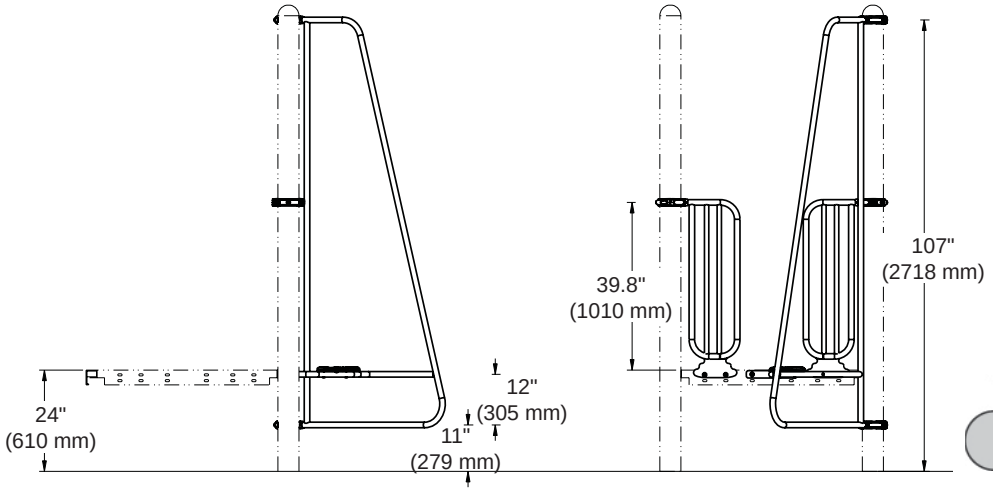
Installation Preparation

Recommended Crew: ..... Two (2) adults
Installation Time: ..... 2 man-hours
Weight: ..... (refer to table)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

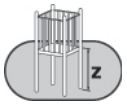
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Top View

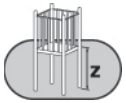


Elevation Views
24" (610 mm) Deck Height

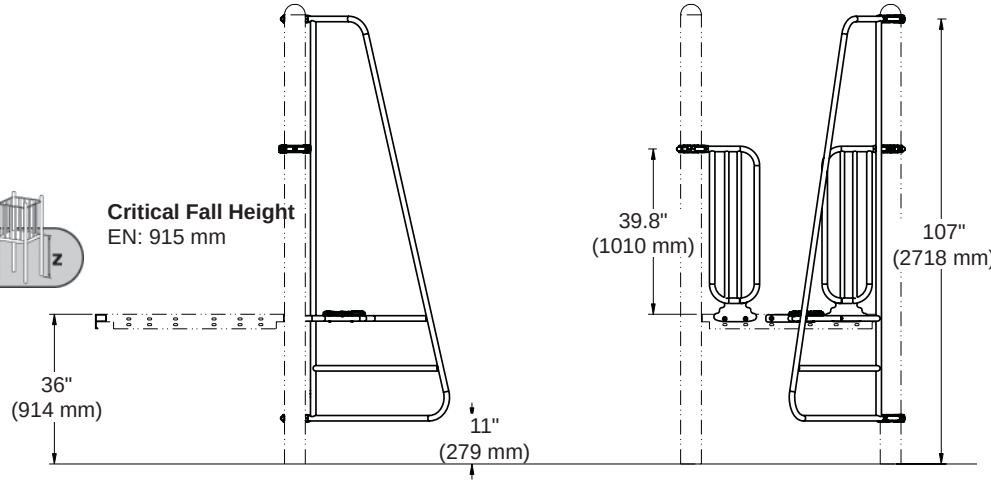


Critical Fall Height
EN: 610 mm

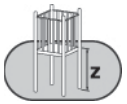
Small Angled Climbers



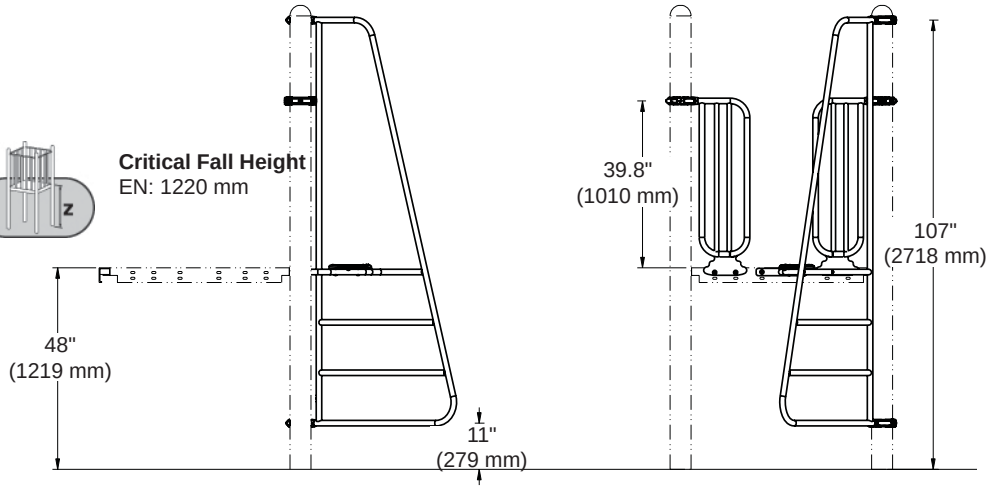
Critical Fall Height
EN: 915 mm



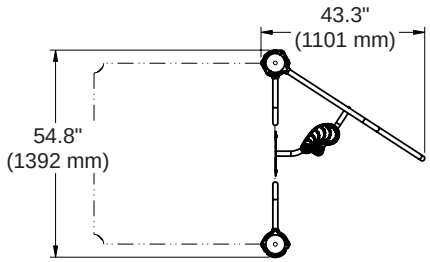
Elevation Views *36" (914 mm) Deck Height*



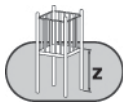
Critical Fall Height
EN: 1220 mm



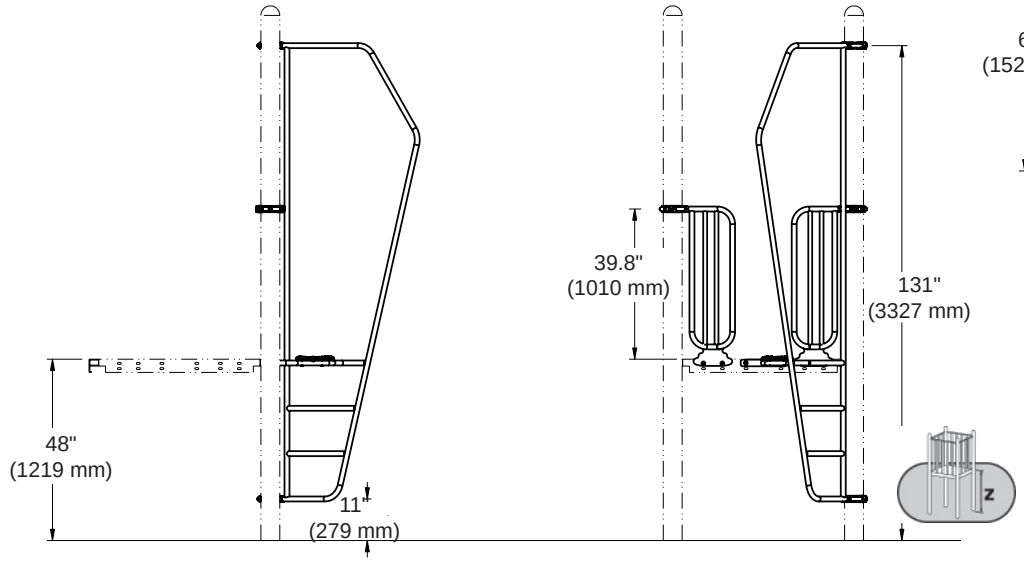
Elevation Views *48" (1219 mm) Deck Height*



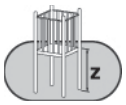
Top View



Critical Fall Height
EN: 1524 mm

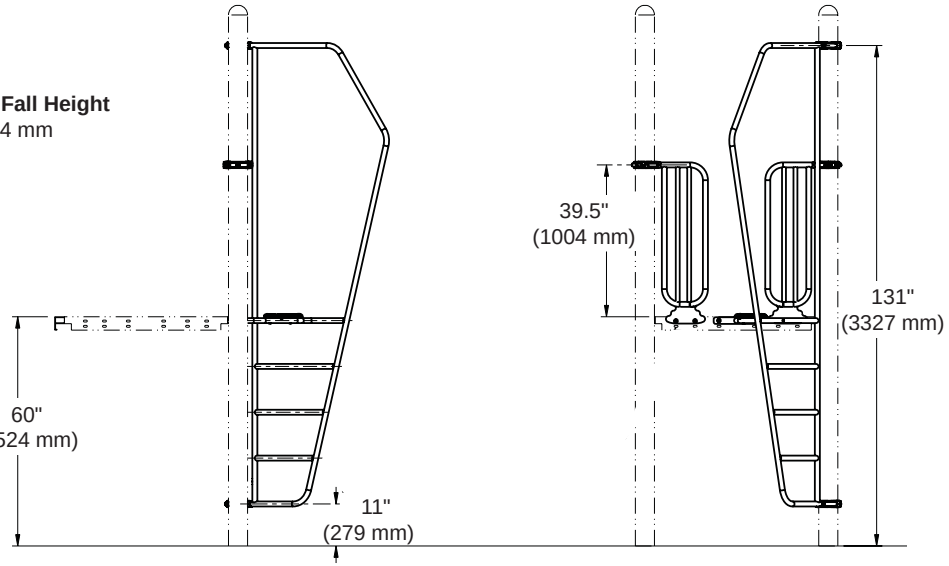


Elevation Views
48" (1219 mm) Deck Height

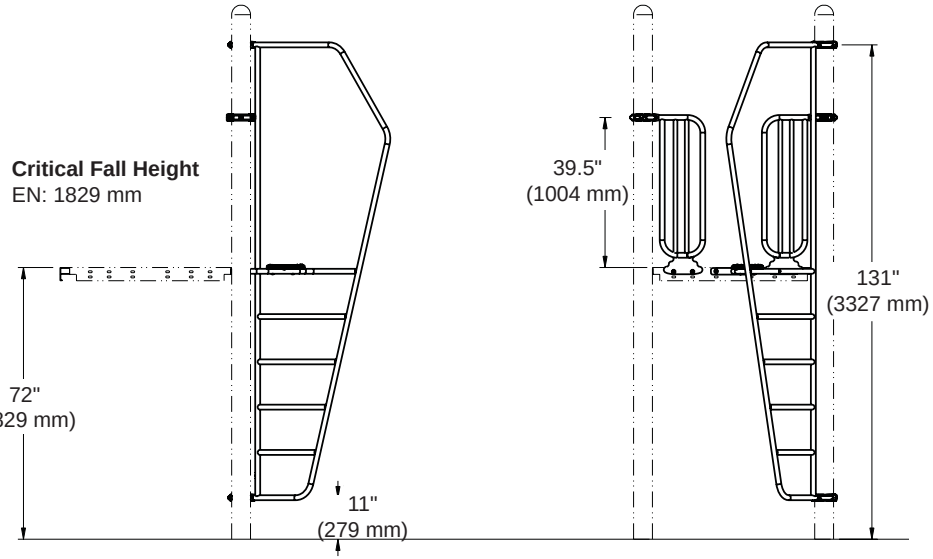


Critical Fall Height
EN: 1219 mm

Large Angled Climbers



Elevation Views *60" (1524 mm) Deck Height*



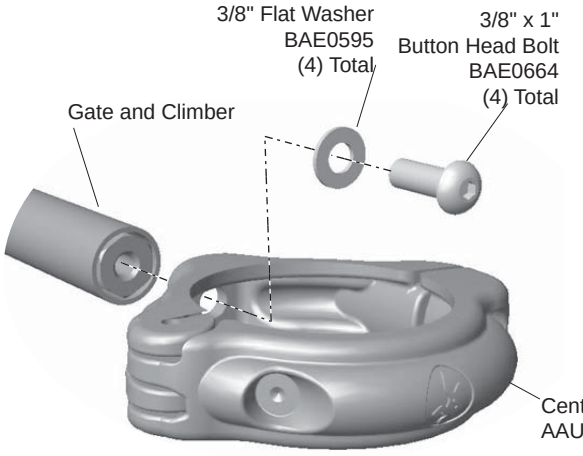
Critical Fall Height
EN: 1829 mm

Elevation Views *72" (1829 mm) Deck Height*

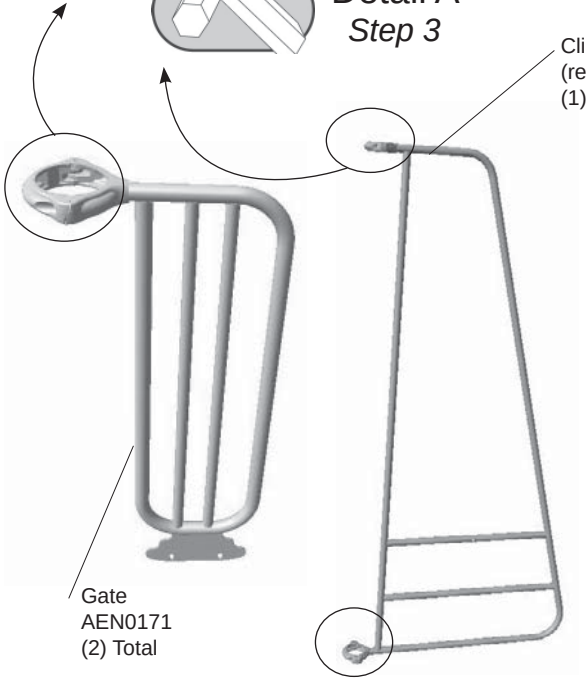
Installation Instructions

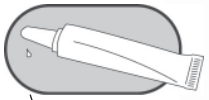
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

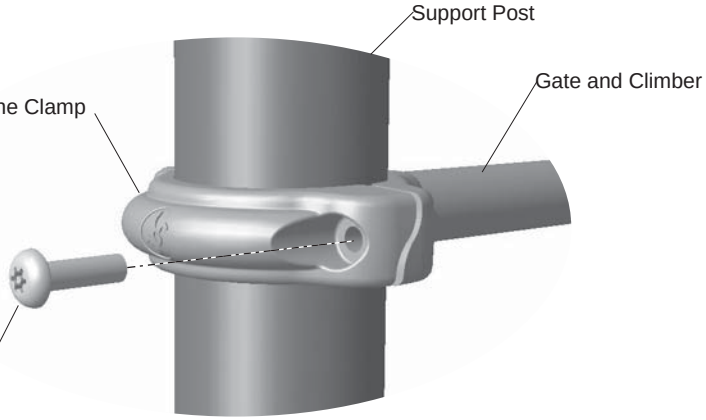
Model	Climber
ZZPM7178	ACL0178
ZZPM7179	ACL0179
ZZPM7180	ACL0180
ZZPM7189	ACL0181
ZZPM7190	ACL0182
ZZPM7196	ACL0183



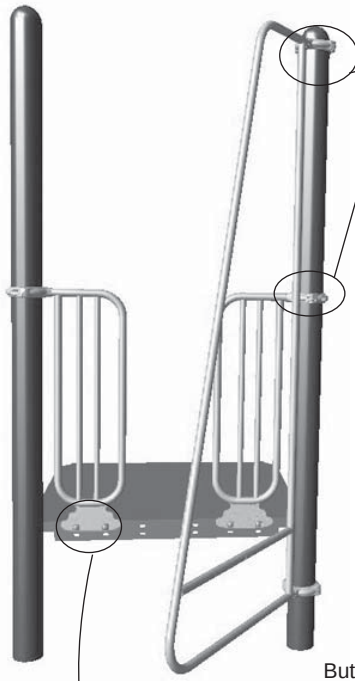
Detail A
Step 3

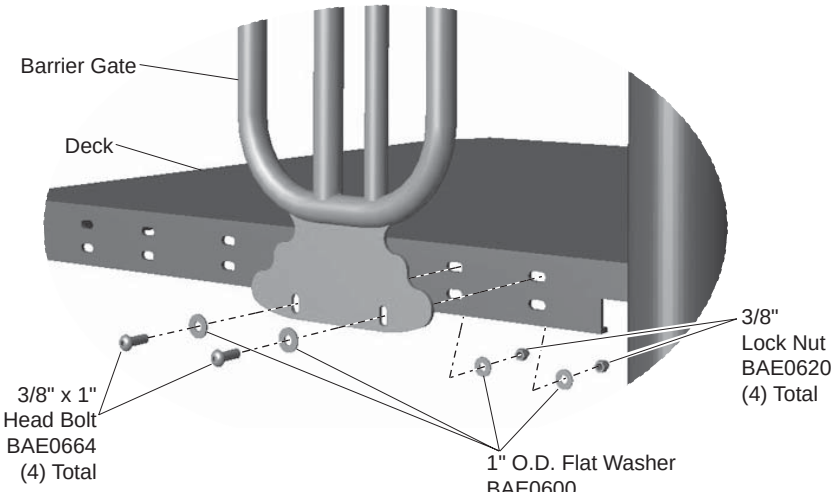




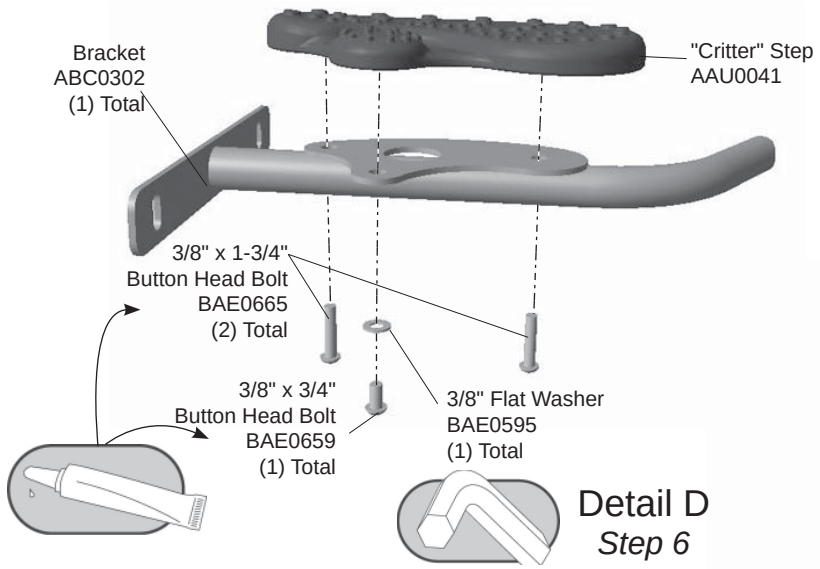


Detail B
Step 4

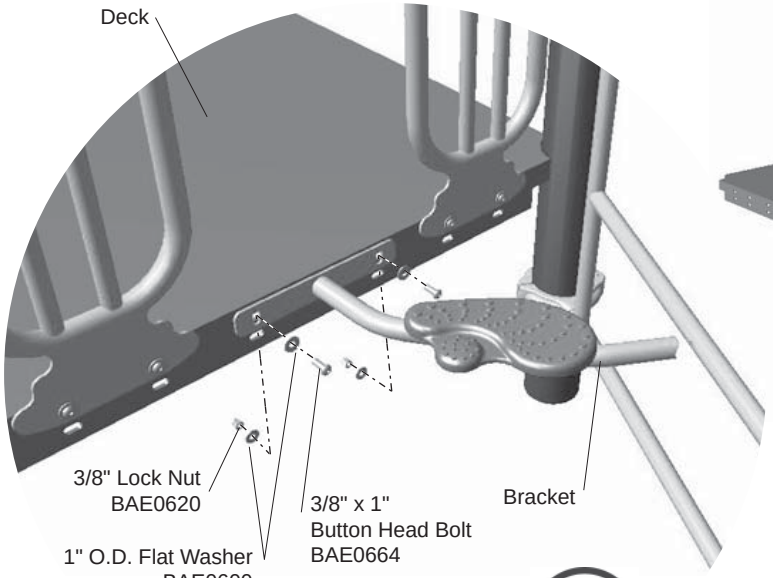




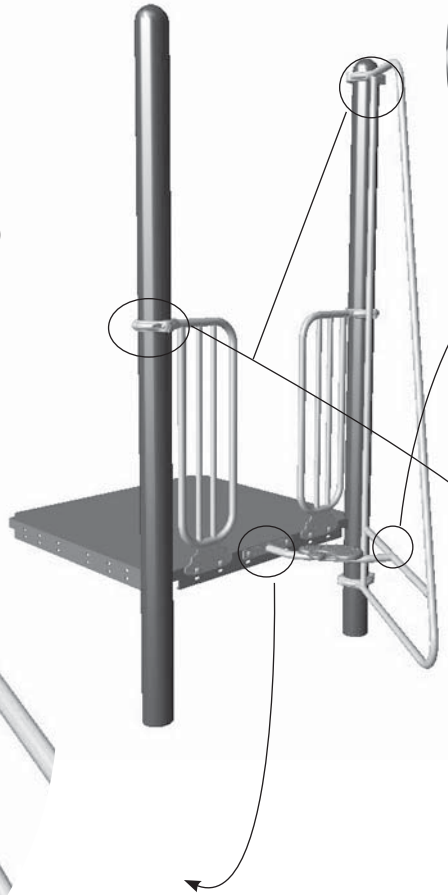
Detail C
Step 5

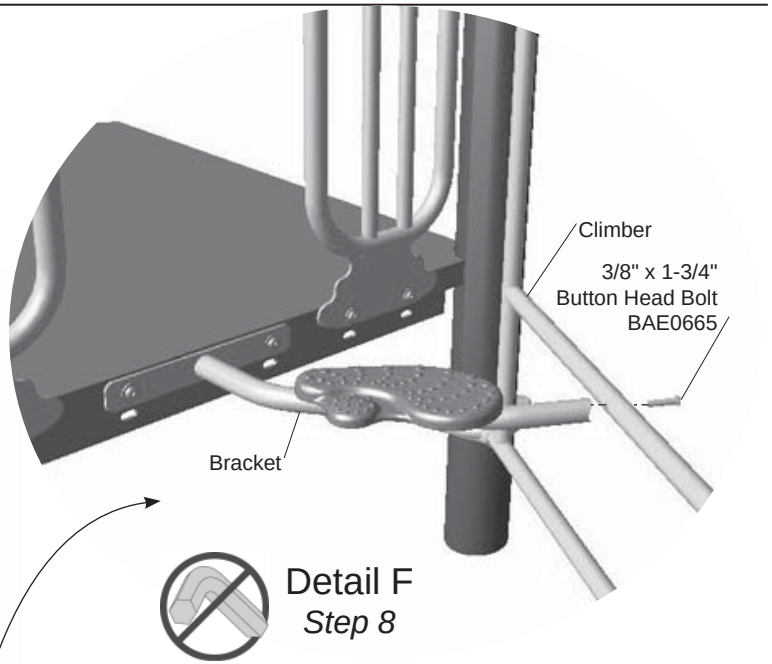


Detail D
Step 6

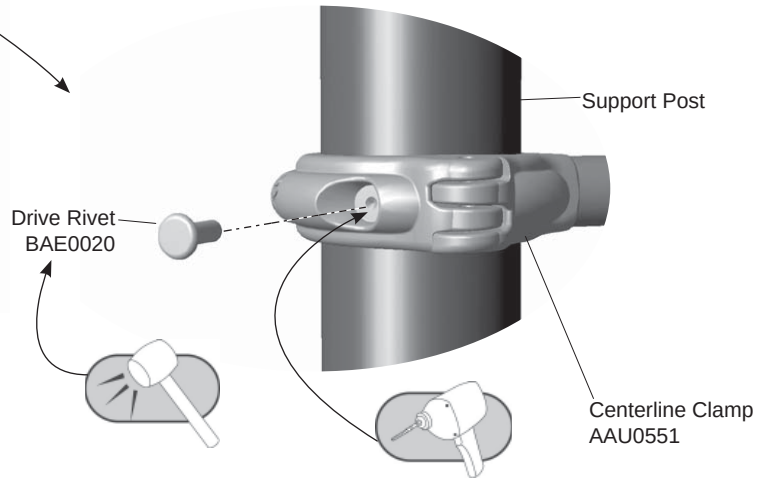


Detail D
Step 7





Detail F
Step 8



Detail G
Step 10

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.
Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware. Determine the location of the climber by referring to the master site layout drawing.

Attach the clamps to the gates and the Angled Climber.
Step 3: See **Detail A**. Attach as shown to both gates and the top and bottom of the climber. Fully tighten the connections.

Attach the gates and the climber to the support posts.
Step 4: See **Detail B**. Turn the gate clamps so that the hinges will be facing the deck. As you face the deck, the climber will be attached to the post on the right. Apply a drop of loctite to the bolt threads and attach as shown. Leave connections loose.

Attach the gates to the deck.
Step 5: See **Detail C**. Align the lower gate tab with either the upper, or lower, holes in the deck. Both gates should be mounted at the same height if possible. Attach as shown.

Attach the step to the bracket.
Step 6: See **Detail D**. Place the step on the bracket plate and align. Apply a drop of loctite to the bolt threads. Attach as shown. Fully tighten the connections.

Attach the bracket to the deck.
Step 7: See **Detail E**. Align the bracket plate with the upper set of holes in the center of the deck. Attach as shown.
Note: In the event of clamp interference with an adjacent component, the bracket may be mounted to the lower set of holes in the deck.

Attach the climber to the bracket
Step 8: See **Detail F**. Swing the climber around and align the hole in the center of the top rung with the bracket end. Attach as shown.

Final Details.
Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.
Torque Specifications:
Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 10: Install drive rivets. See **Detail G**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

PM7178 - ANGLED CLIMBER SMALL - 24 in. (610 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0178	CLIMBER - 96" w/2 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7179 - ANGLED CLIMBER SMALL - 36 in. (914 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0179	CLIMBER - 96" w/3 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7180 - ANGLED CLIMBER SMALL - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0180	CLIMBER - 96" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7189 - ANGLED CLIMBER LARGE - 48 in. (1219 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0181	CLIMBER - 120" w/4 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7190 - ANGLED CLIMBER LARGE - 60 in. (1524 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0182	CLIMBER - 120" w/5 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

PM7196 - ANGLED CLIMBER LARGE - 72 in. (1829 mm) DECK

PART NO.	DESCRIPTION	QTY.
AAU0041	CASTING - CRITTER CROSSING POD	1
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	4
ABC0302	BRACKET - 1.315" O.D. x 19.26" x 57 DEG w/2 PLATES	1
ACL0183	CLIMBER - 120" w/6 RUNGS	1
AEN0171	BARRIER - 13" x 42-3/16" GATE w/NO PLATE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0595	WASHER - 3/8" SAE FLAT	5
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	1
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST. w/TORX DRIVE	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	10
BAE0665	BOLT - 3/8"-16 x 1-3/4" BUTTON HEAD - SS	3

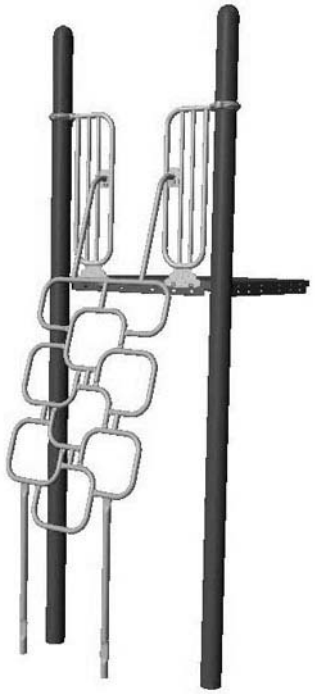
PLAYWORLD™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837

PLAYWORLD™

Installation Instructions

Playmakers® Models PM8260, PM8270, and PM8280 Hopscotch Climber

48 in. (1219 mm), 54 in. (1372 mm), 60 in. (1524 mm), 66 in. (1676 mm), 72 in. (1829 mm)

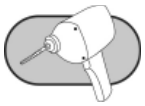
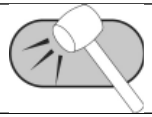
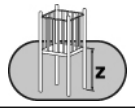


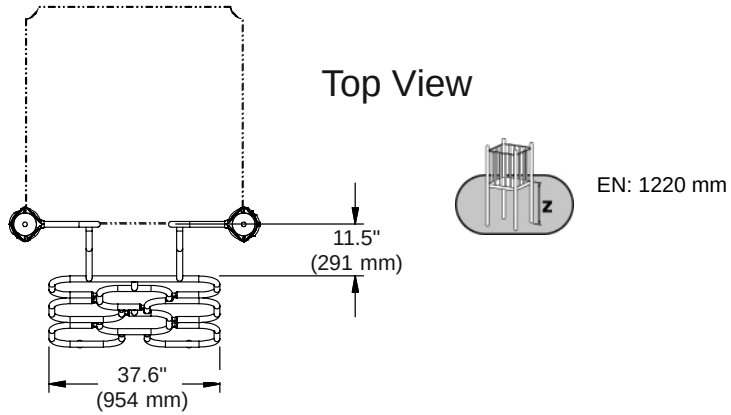
Assembly View *(representative model)*

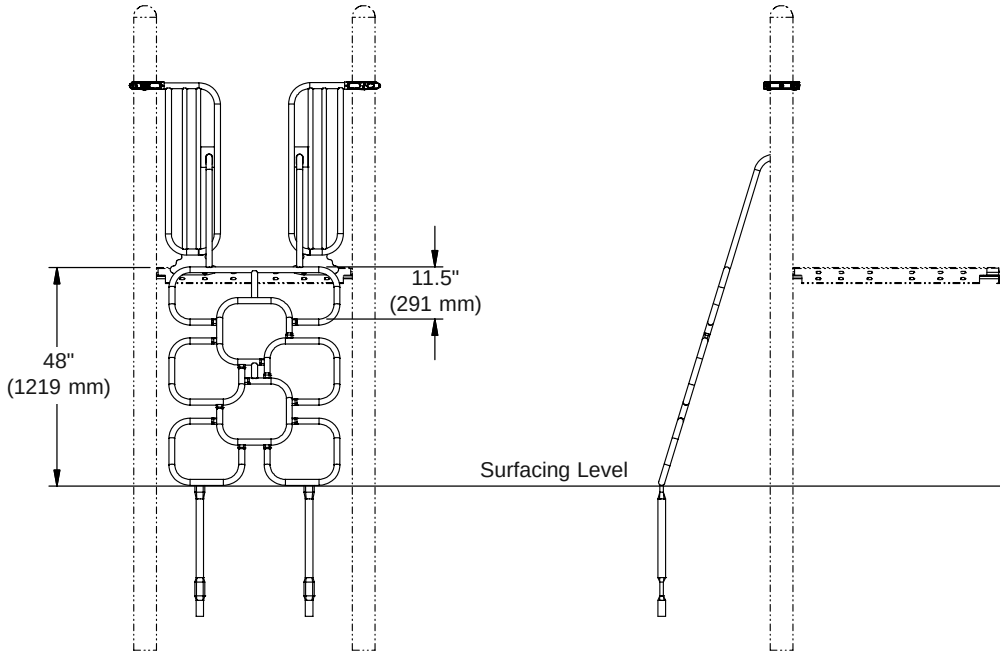
Installation Preparation

Recommended Crew: ..... Two (2) adults
Installation Time: ..... 2 man-hours
Weight: ..... (refer to table)
Concrete Required: ..... 0.06 cubic yard (0,05 cubic meters)
Use Zone: ..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 6-14

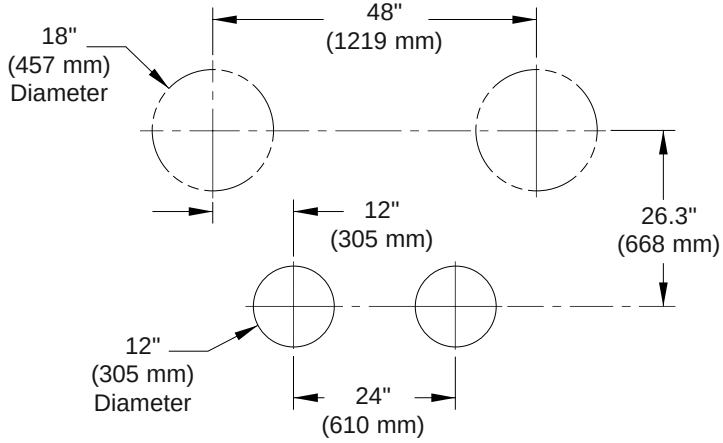
Model	Deck Height	Weight
ZZPM8260	48" (1220 mm) and 54" (1372 mm)	87 lbs. (39.6 kg)
ZZPM8270	60" (1525 mm) and 66" (1676 mm)	96.4 lbs. (43.8 kg)
ZZPM8280	72" (1830 mm)	101 lbs. (45.9 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

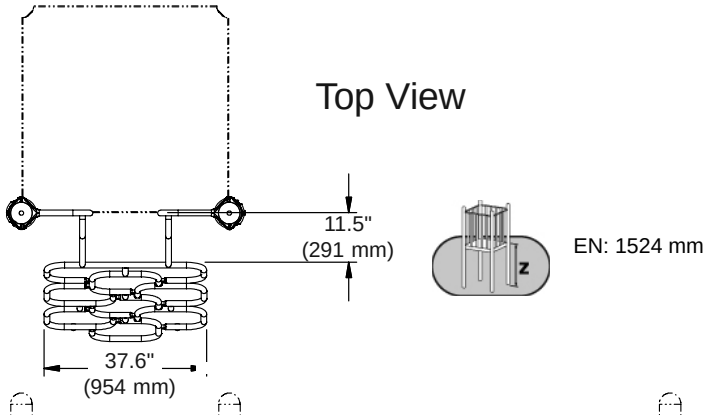


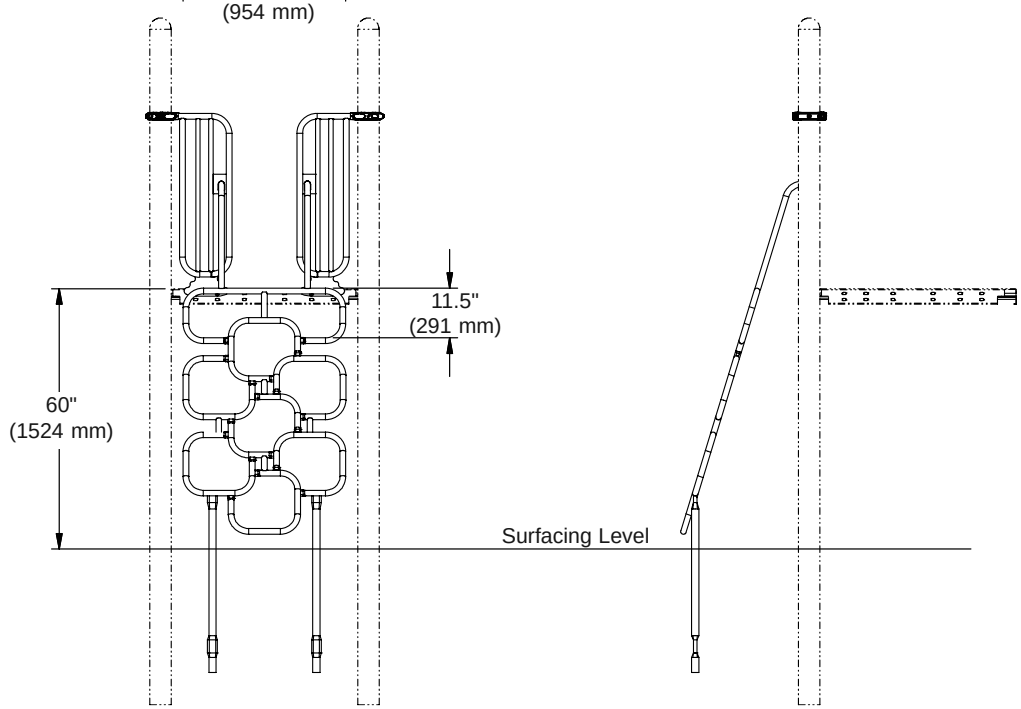


Elevation View
48" (1219 mm) Deck Shown

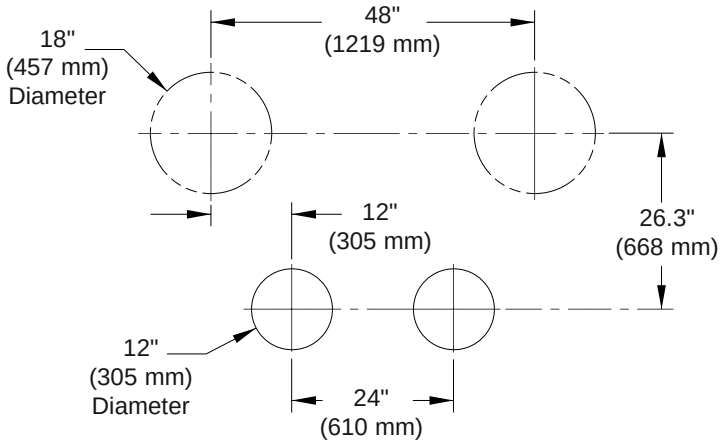


Footing Detail

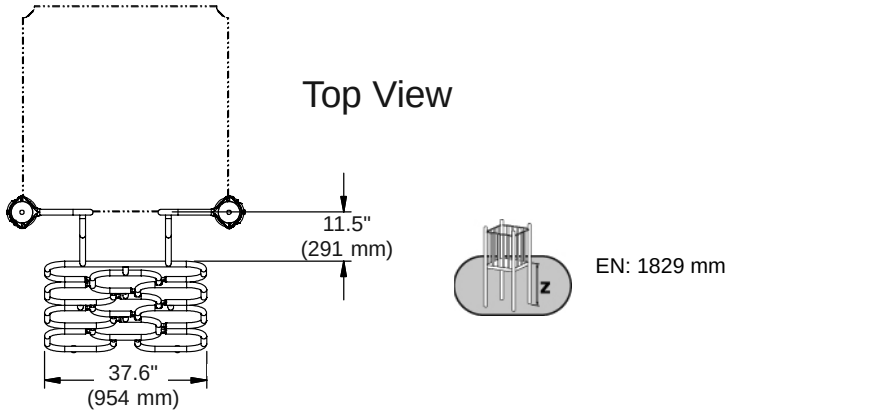


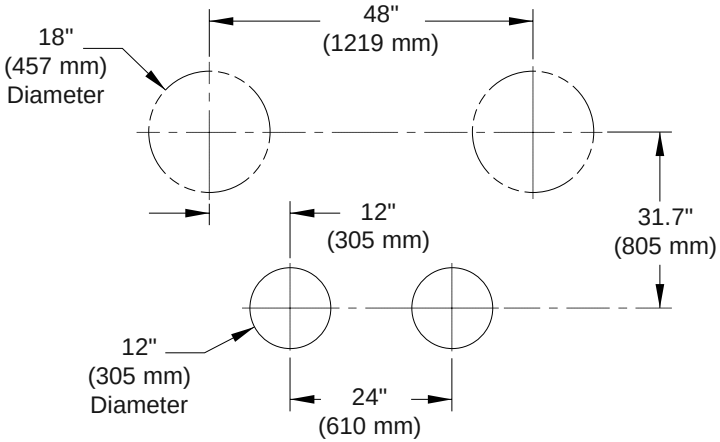


Elevation View
60" (1524 mm) Deck Shown

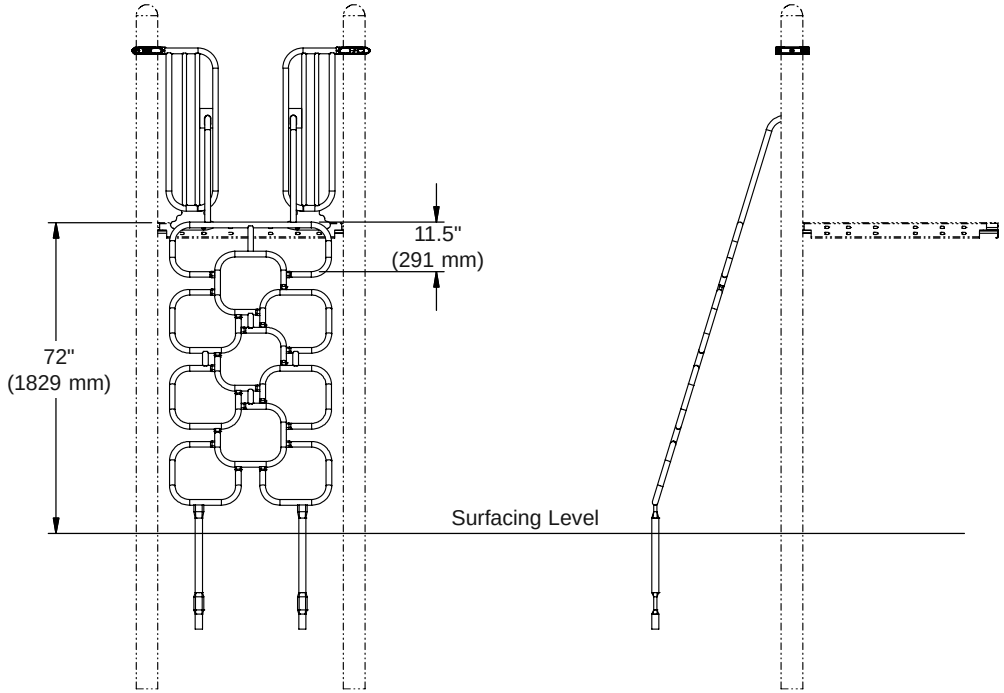


Footing Detail





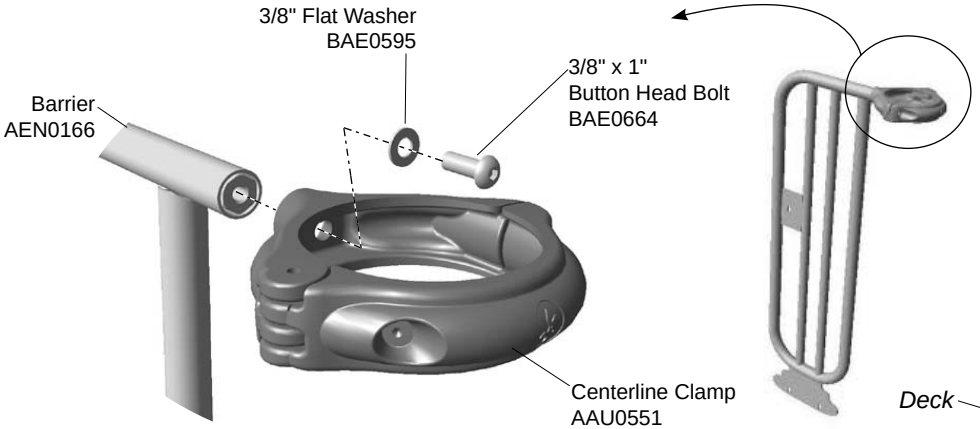
Footing Detail



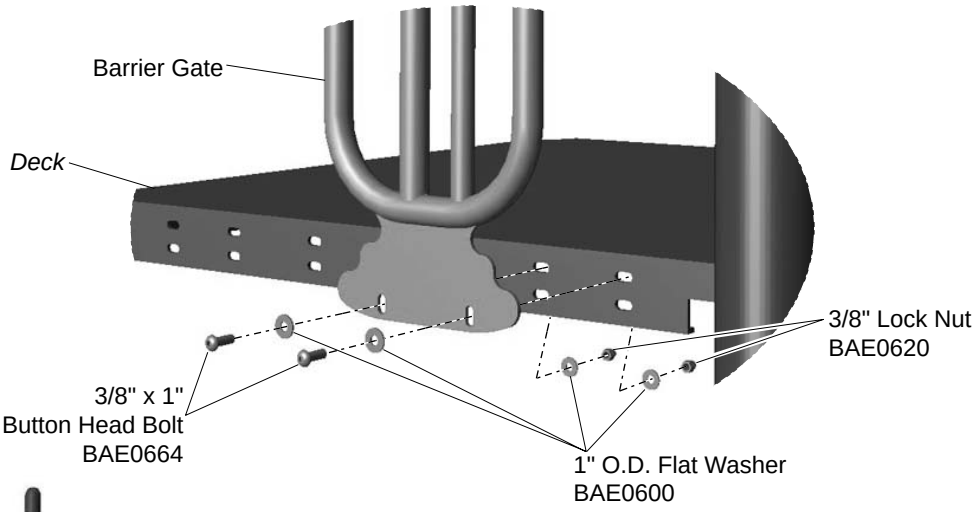
Elevation View
72" (1829 mm) Deck Shown

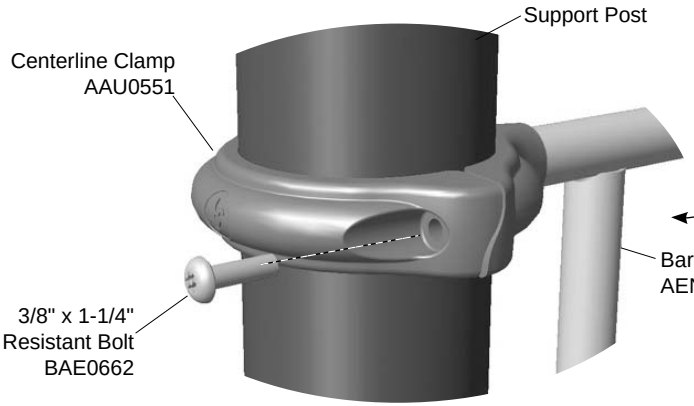
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.

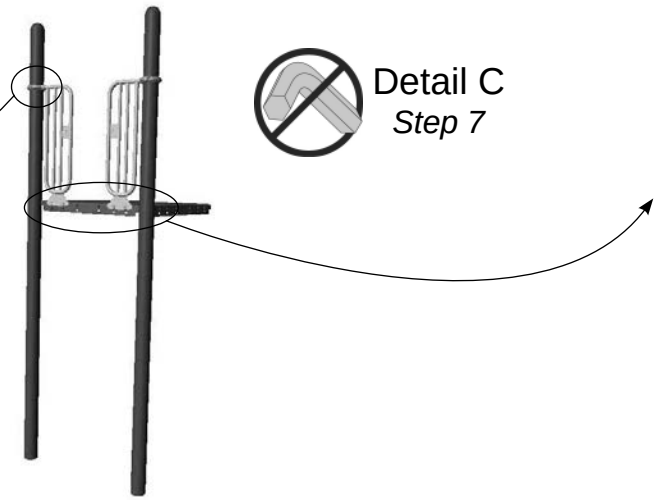


Detail A
Step 5

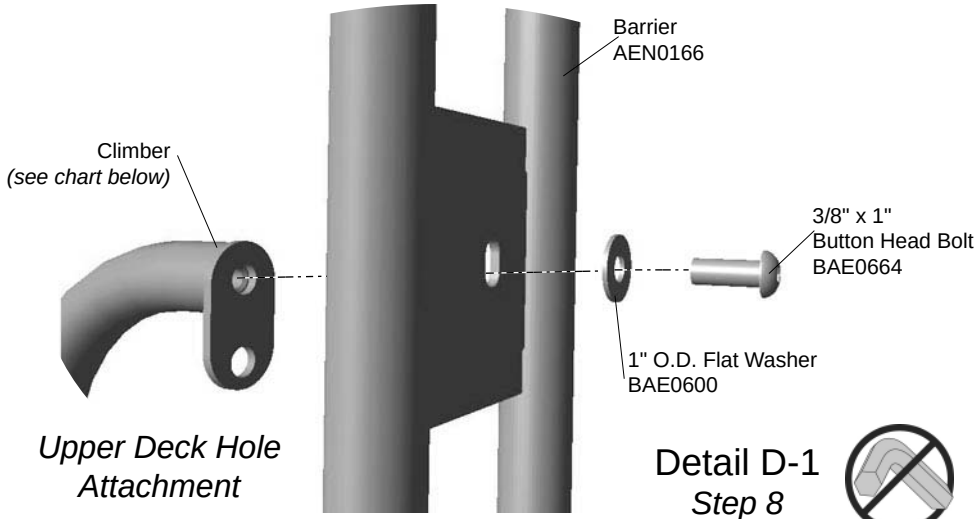




Detail B
Step 6



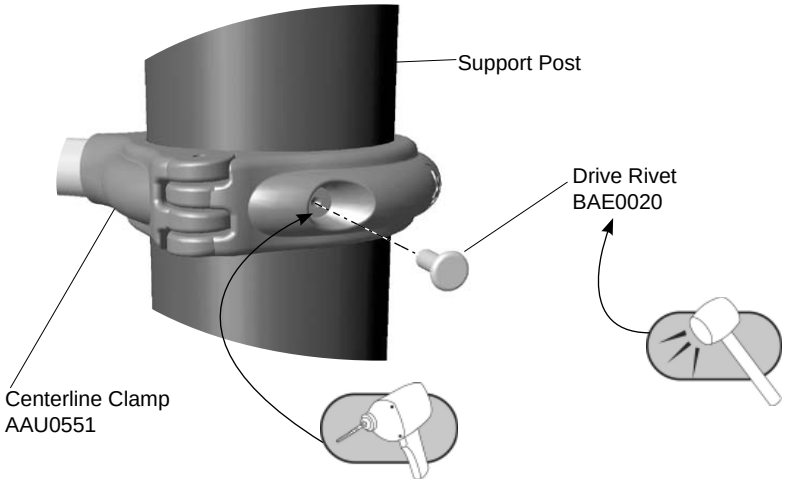
Detail C
Step 7



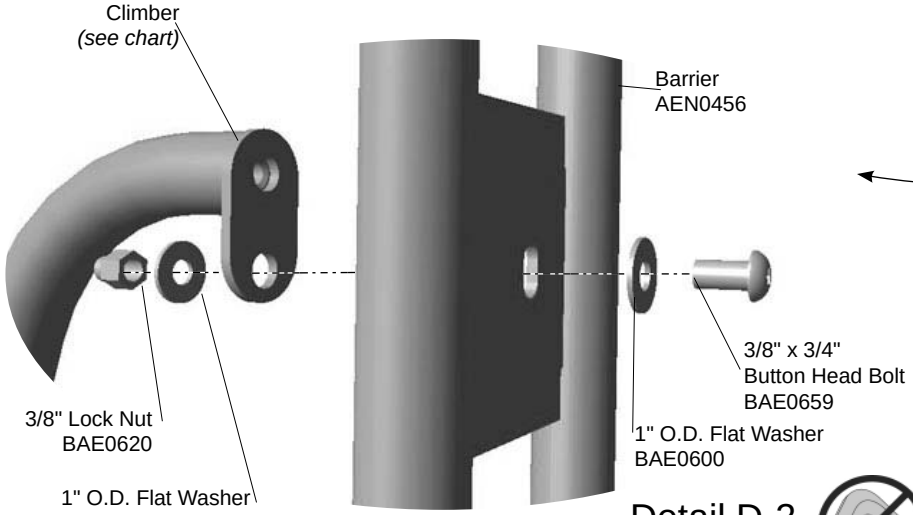
Upper Deck Hole Attachment

Detail D-1
Step 8

Deck Height	48 in. (1219 mm) 54 in. (1372 mm)	60 in. (1524 mm) 66 in. (1676 mm)	72 in. (1829 mm)
Climber Part No.	ACL0055	ACL0057	ACL0059

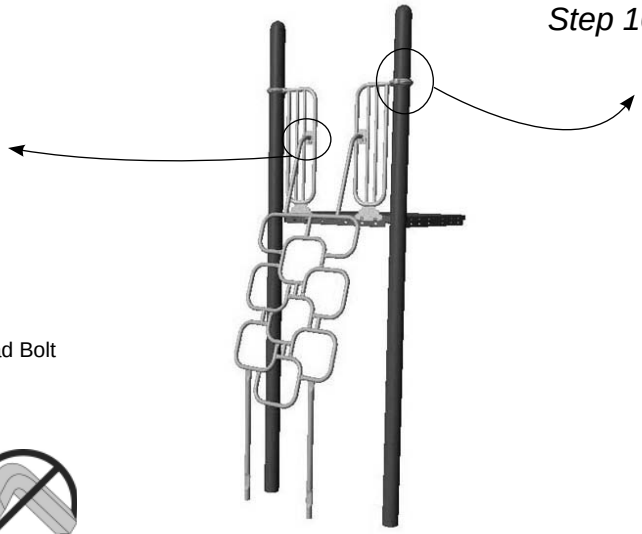


Detail E
Step 10



Lower Deck Hole Attachment

Detail D-2
Step 8



__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__**Step 2:** Separate and identify all components and hardware.

__**Step 3:** Determine the placement and orientation of the hopscotch climber by referring to the master footing diagram and the associated **Elevation View**.

__**Step 4:** Excavate holes as shown in the **Component Footing Details** in the Playmaker® guidelines for the 48", 60", and 72" deck heights. **For the 54" and 66" deck heights, make the footing depth 24".**

Attach the clamps to the barrier gates.

__**Step 5:** Attach the clamps to the barrier gates. See **Detail A**. Select the barrier gates, clamps, and the appropriate hardware. There are (2) two connections. Place a clamp against the top of each barrier gate. Attach as shown. Fully tighten the connection with the clamp hinge facing the deck.

Attach the clamp to the support post.

__**Step 6:** Attach the clamp assembly to the support post. See **Detail B**. Select the appropriate hardware. There are (2) two connections. Lift the gates into position against the deck. Close the clamps around the support posts. Attach as shown. Leave the clamp connection loose for deck connection adjustments.

Attach the barrier gates to the deck.

__**Step 7:** Attach the barrier gates to the deck. See **Detail C**. Select the appropriate hardware. There are (2) two connections. Align the gates with either the *top or bottom* holes in the deck. Insert each bolt through a flat washer, the gate, the deck, another flat washer, and secure with a lock nut.

Note: The gates may be adjusted to eliminate any clamp conflicts by selecting the upper or lower holes on the deck. Both of the gates should be mounted at the same height.

Attach the climber to the gates.

__**Step 8:** Attach the climber to the gates. See **Detail D-1 and D-2**. Select the hopscotch climber and place into the excavated footings. Follow the instructions that apply to your gate to deck connection.

Attachment of the Gate to the Upper Holes in the Deck: Select the appropriate hardware. See **Detail D-1**. There are (2) two connections. Position the ends of the climber against the gate plates and align the holes. Attach as shown.

Attachment of the Gate to the Lower Holes in the Deck Select the appropriate hardware. See **Detail D-2**. There are (2) two connections. Position the climber tabs against the gate plates and align the holes. Attach as shown.

Final Details.

__**Step 9:** Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

__**Step 10:** Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM8260- 48 in. (1219 mm) & 54 in. (1372 mm) HOPSCOTCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0055	CLIMBER - 48" AND 54" HOPSCOTCH WDMT.	1
AEN0166	BARRIER - 13" x 42-3/16" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM8270- 60 in. (1524 mm) & 66 in. (1676 mm) HOPSCOTCH CLIMBER

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0057	CLIMBER - 60" AND 66" HOPSCOTCH WDMT.	1
AEN0166	BARRIER - 13" x 42-3/16" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM8280- 72 in. (1829 mm) HOPSCOTCH CLIMBER

AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0059	CLIMBER - 72" HOPSCOTCH WDMT.	1
AEN0166	BARRIER - 13" x 42-3/16" GATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	12
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	6
BAE0659	BOLT - 3/8"-16 x 3/4" BUTTON HEAD - SS	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PLAYWORLD™
For Customer Service, Call
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PLAYWORLD™

Installation Instructions

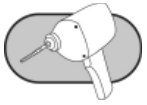
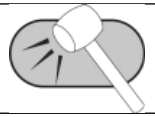
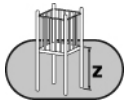
Playworld Systems
Models PM8289, PM8290, PM8300, PM8310
Ribbon Climber
36 in. (914 mm), 48 in. (1219 mm),
60 in. (1524 mm), 72 in. (1829 mm)

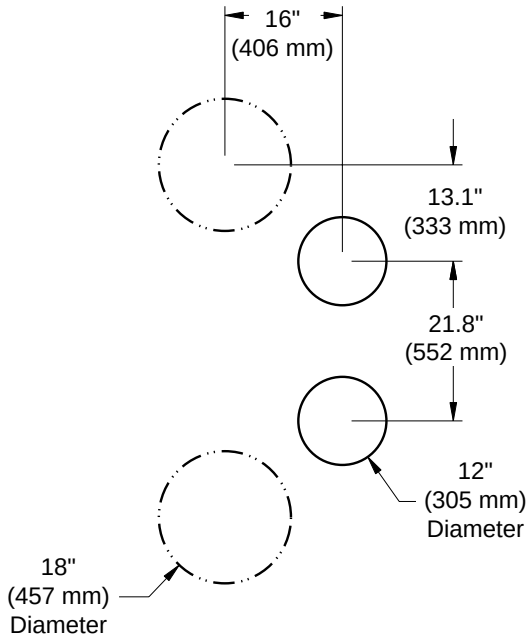
Assembly View *(representative models)*

Deck Height	PM8289 36 in. (914 mm)	PM8290 48 in. (1219 mm)	PM8300 60 in. (1524 mm)	PM8310 72 in. (1829 mm)
Weight	52 lbs 23.6 kilos	59.1 lbs. 26.9 kilos	63.4 lbs. 28.8 kilos	69 lbs. 31.4 kilos

Installation Preparation

Recommended Crew: ..... One (1) adult
Installation Time: ..... 1.5 hours
Weight: ..... See table at lower left
Concrete Required: ..... 0.06 cubic yard (0,5 cubic meters)
Use Zone: ..... Refer to Use Zone on Master Drawing
User Group Age (years): ..... 36"-48": ASTM/CSA: 2-12, EN: 2-14
..... 60"-72": ASTM/CSA: 5-12, EN: 6-14

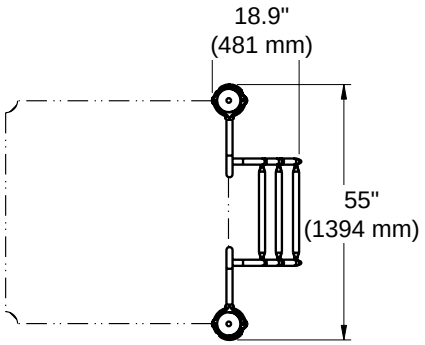
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully TIghten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

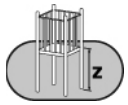


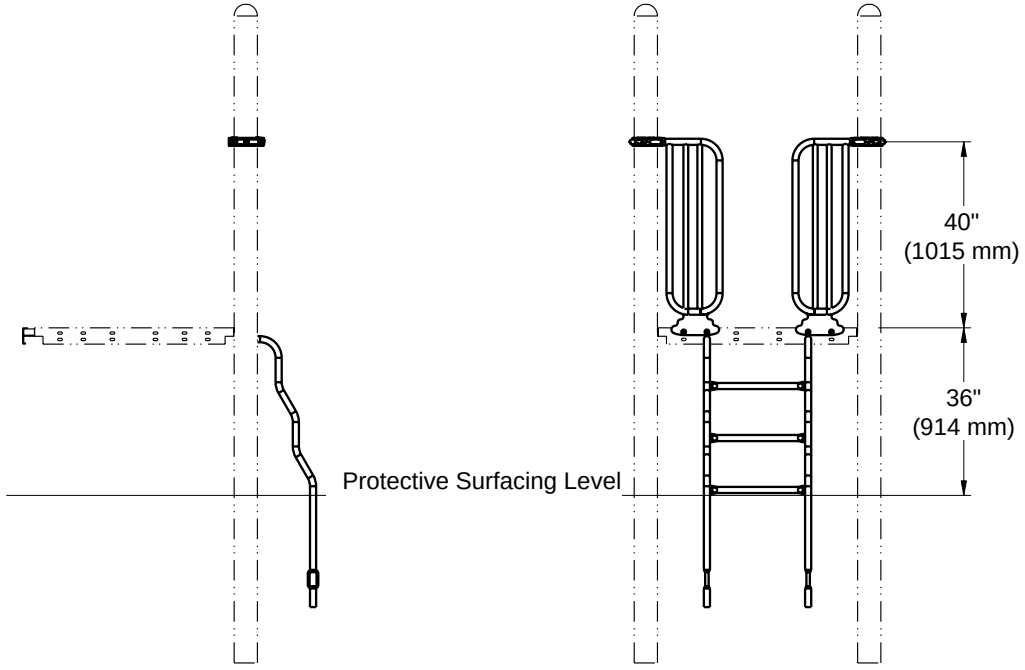
Footing Diagram

Step 4

Top View

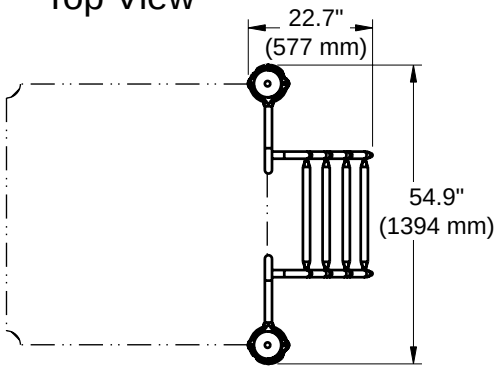


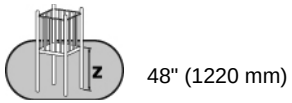


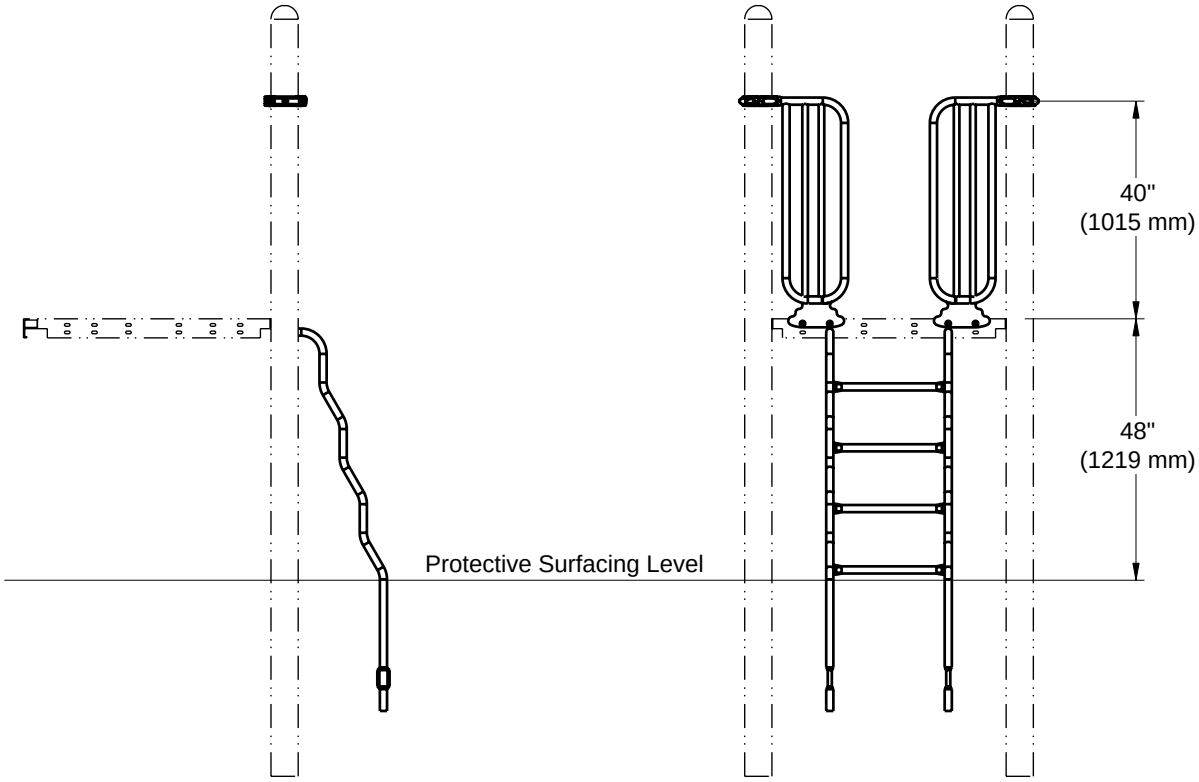


Elevation View
36" (914 mm) Deck

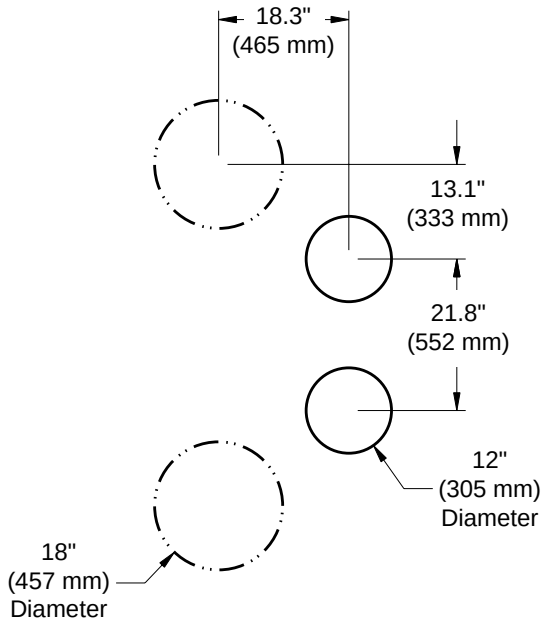
Top View





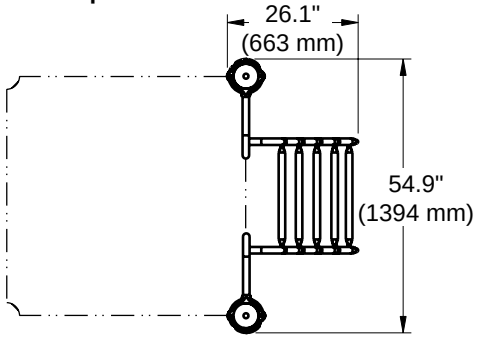


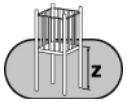
Elevation View
48" (1219 mm) Deck



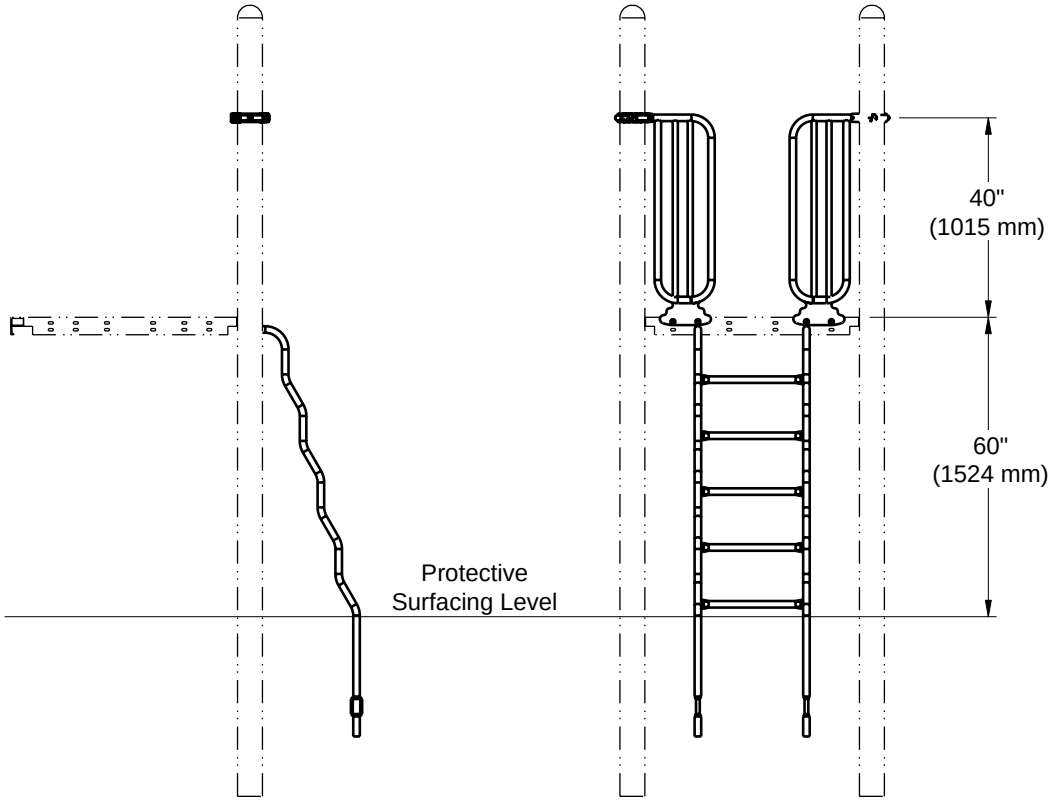
Footing Diagram

Top View

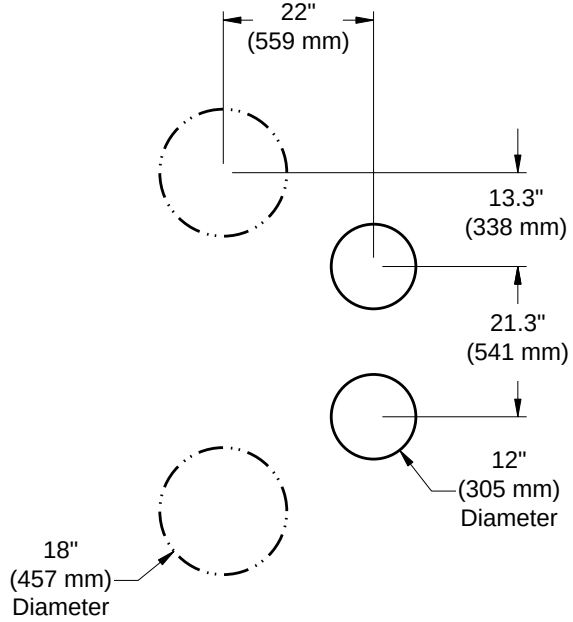




60" (1524 mm)

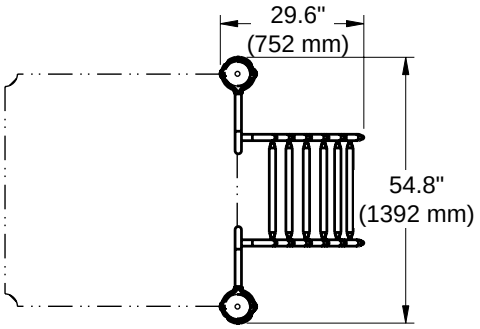


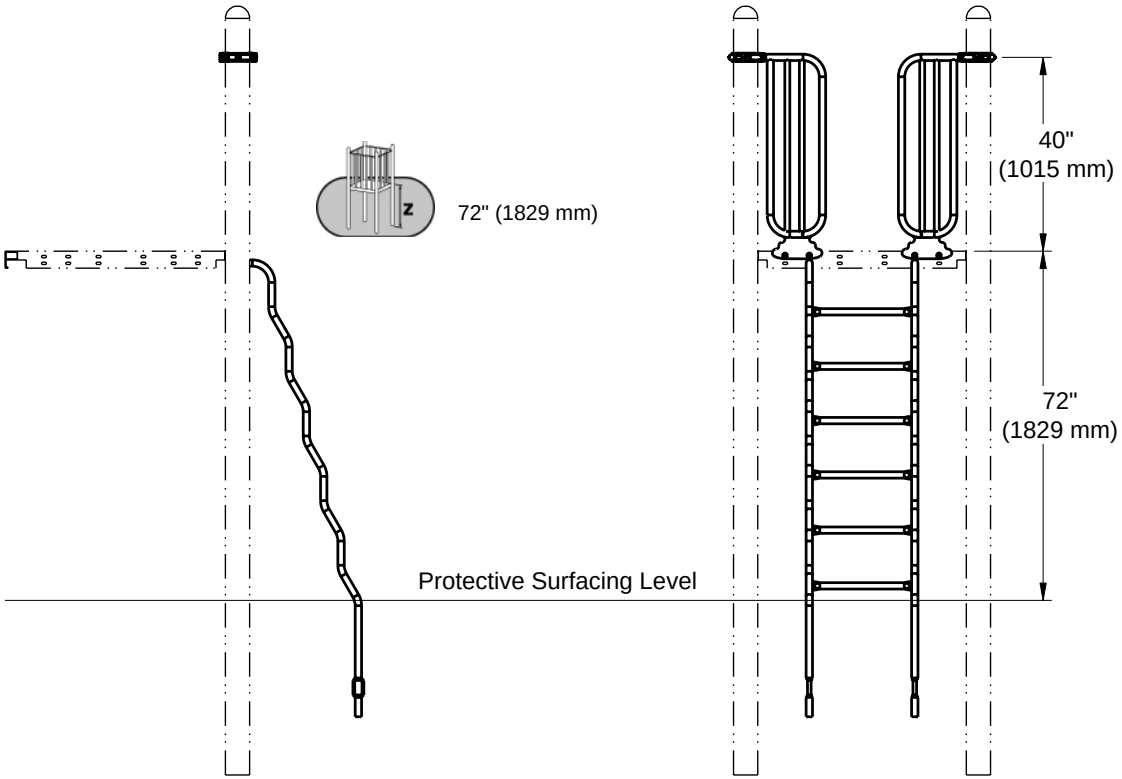
Elevation View
60" (1524 mm) Deck



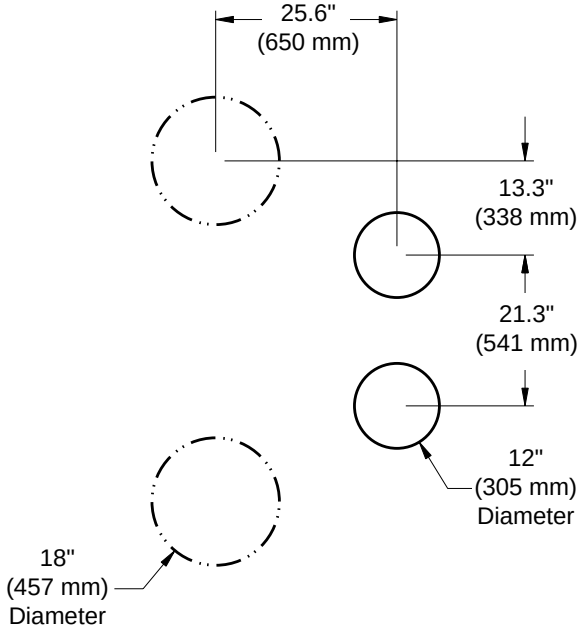
Footing Diagram

Top View



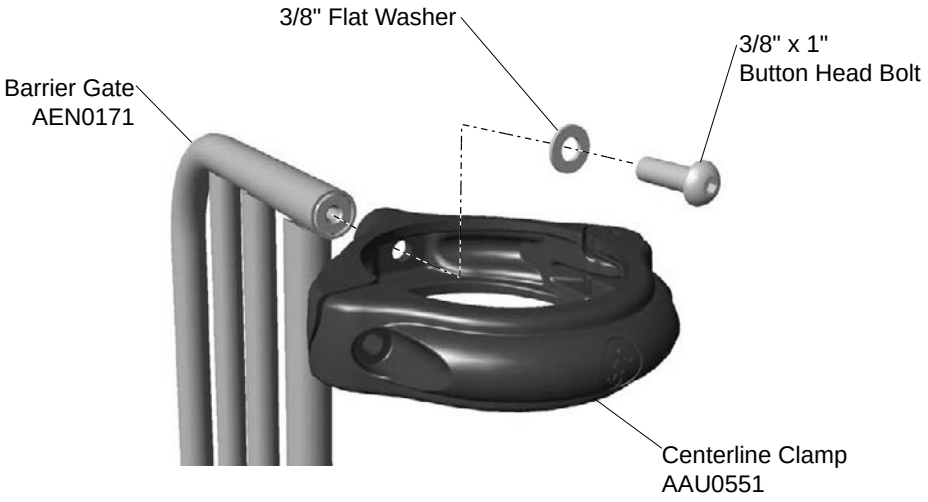


Elevation View
72" (1829 mm) Deck

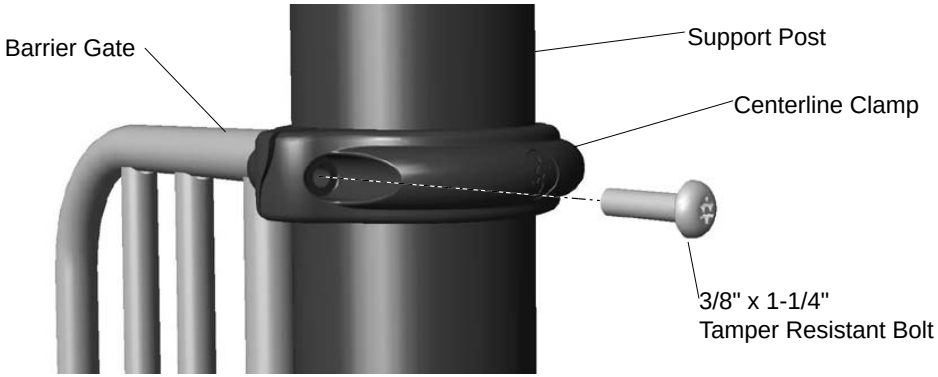


Footing Diagram

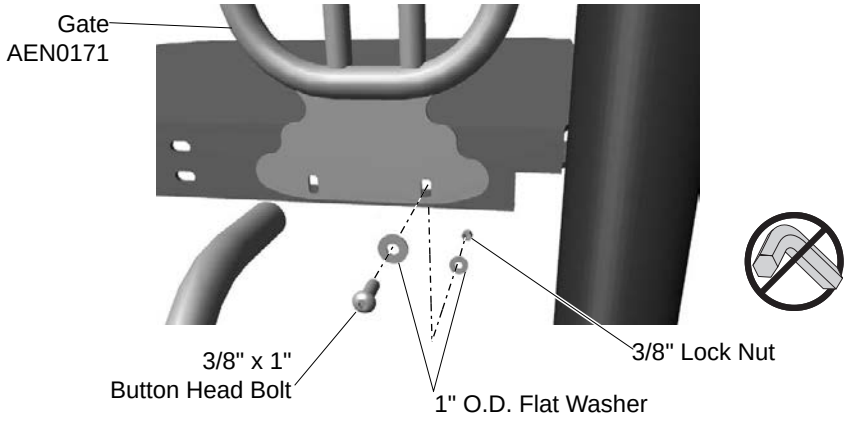
Follow the details in alphabectical order. For clarification, each detail references the step description. The step descriptions start on page 8.

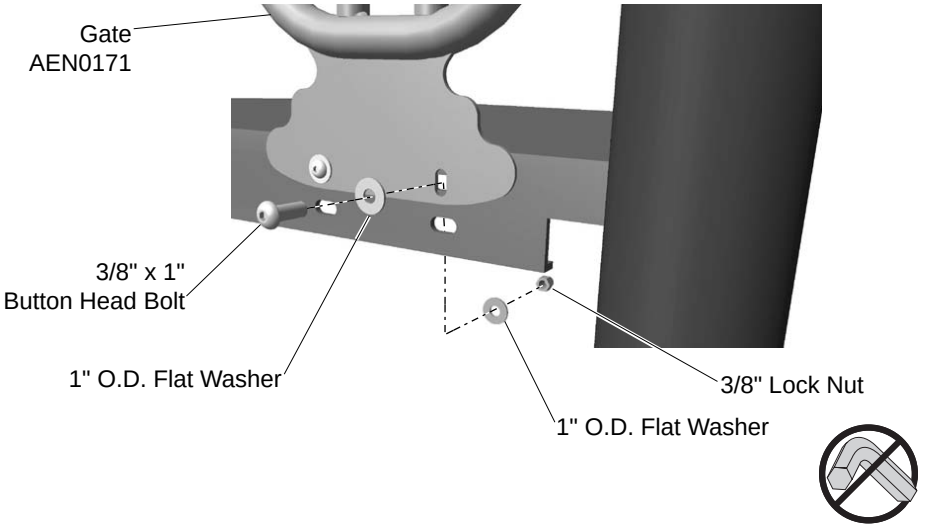


Detail A
Step 5



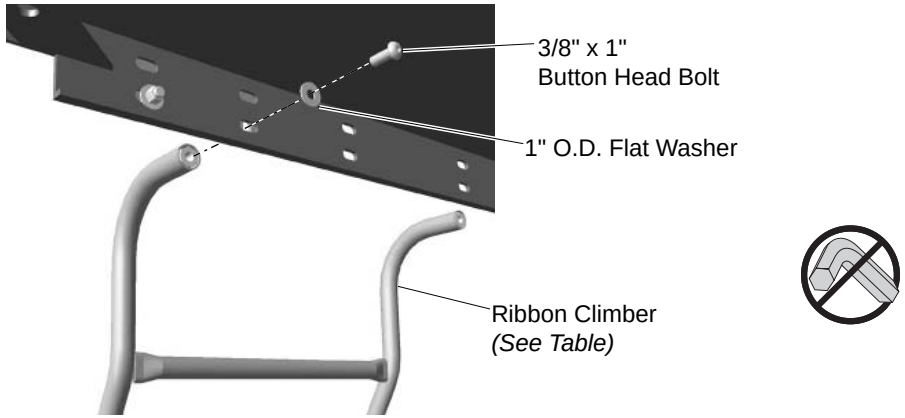
Detail B
Step 6

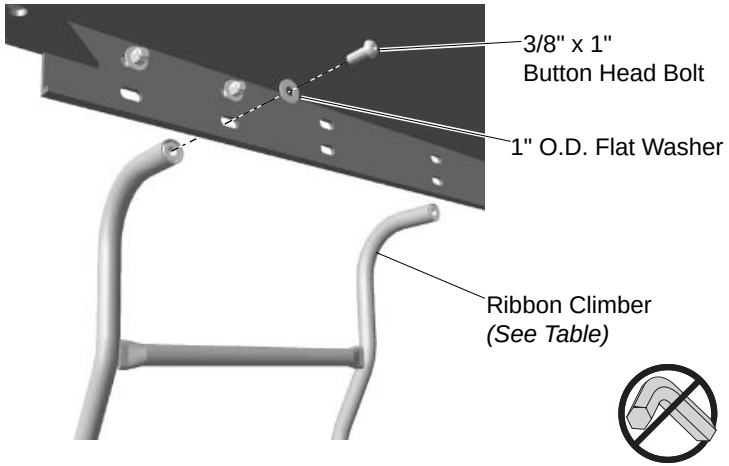




Gates in lower position

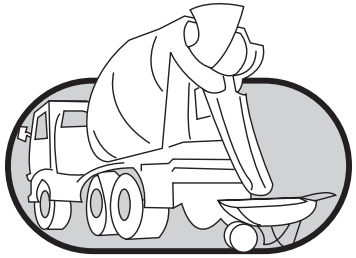
Gates in upper position



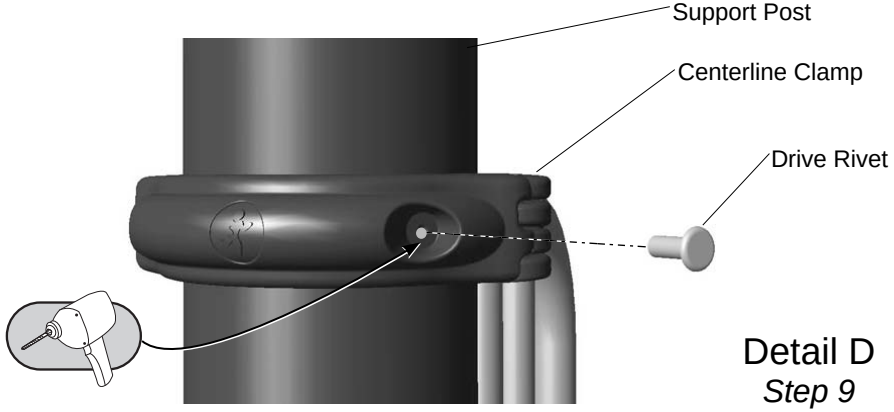


Detail C
Step 7

Deck Height	36 in. (914 mm)	48 in. (1219 mm)	60 in. (1524 mm)	72 in. (1829 mm)
Climber Part No.	ACL0190	ACL0184	ACL0186	ACL0188



Step 8
Pour Concrete



Detail D
Step 9

INSTALLATION

__A Note Before You Begin:
Do not over tighten bolts during assembly, only snug tighten unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.
__**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

__**Step 2:** Separate and identify all components and hardware by referencing the detail drawings and packing list.

__**Step 3:** Determine placement and orientation of the ribbon climber by referring to the composite master footing diagram and associated **Elevation View**.

__**Step 4:** Excavate the footings as shown in the **Component Footing Details** in the *Guidelines* at the beginning of this instruction booklet.

Attach the centerline clamps to the gates.
__**Step 5:** Attach the centerline clamps to the gates. See **Detail A**. Select both gates, and (2) two clamps, and the appropriate hardware. Secure the clamp to the gate as shown. Ensure that the clamps are turned in the same direction and fully tighten the connections.

Attach the clamps to the support posts.
__**Step 6:** Attach the clamps to the support posts. See **Detail B**. Select the appropriate hardware. Lift each gate into position against the deck and secure the clamp to the post. Snug tighten the connection only.

Attach the gates and the ribbon climber to the deck.
__**Step 7:** Attach the gates and the ribbon climber to the deck. See **Detail C**. Select the ribbon climber and the appropriate hardware. Determine the connection position of the gates and ribbon climber, and follow the appropriate detail. Both gates should be mounted at the same height. Leave connections loose.

Final Details.
__**Step 8:** Plumb and level the entire component. Fully tighten **all** fasteners according to tightening torque specifications indicated on **page 1.** Block and brace, and pour concrete. Allow 72 hours for concrete to completely cure.

__**Step 9:** Install a drive rivet in each clamp. See **Detail D**. Using a 1/4" drill bit, drill through a band and support post. Insert the drive rivet into drilled hole and drive the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

PM - 36 in. (914 mm) RIBBON LADDER (ZZPM8289)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0190	CLIMBER - 23.07" x 58.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 48 in. (1219 mm) RIBBON LADDER (ZZPM8290)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0184	CLIMBER - 23.07" x 70.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 60 in. (1524 mm) RIBBON LADDER (ZZPM8300)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0186	CLIMBER - 23.07" x 82.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

PM - 72 in. (1829 mm) RIBBON LADDER (ZZPM8310)

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0188	CLIMBER - 23.07" x 94.22" RIBBON	1
AEN0171	BARRIER - 13" x 42-3/16" w/ NO PLATE	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0600	WASHER - 1" O.D. FLAT	10
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	8

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1000 Buffalo Road • Lewisburg, PA 17837

PLAYWORLD SYSTEMS
Putting The Fun Back Into Playgrounds®

INSTALLATION INSTRUCTIONS

PLAYMAKERS®
MODEL PM5770
LEG LIFT

Assembly View

Installation Preparation . . .

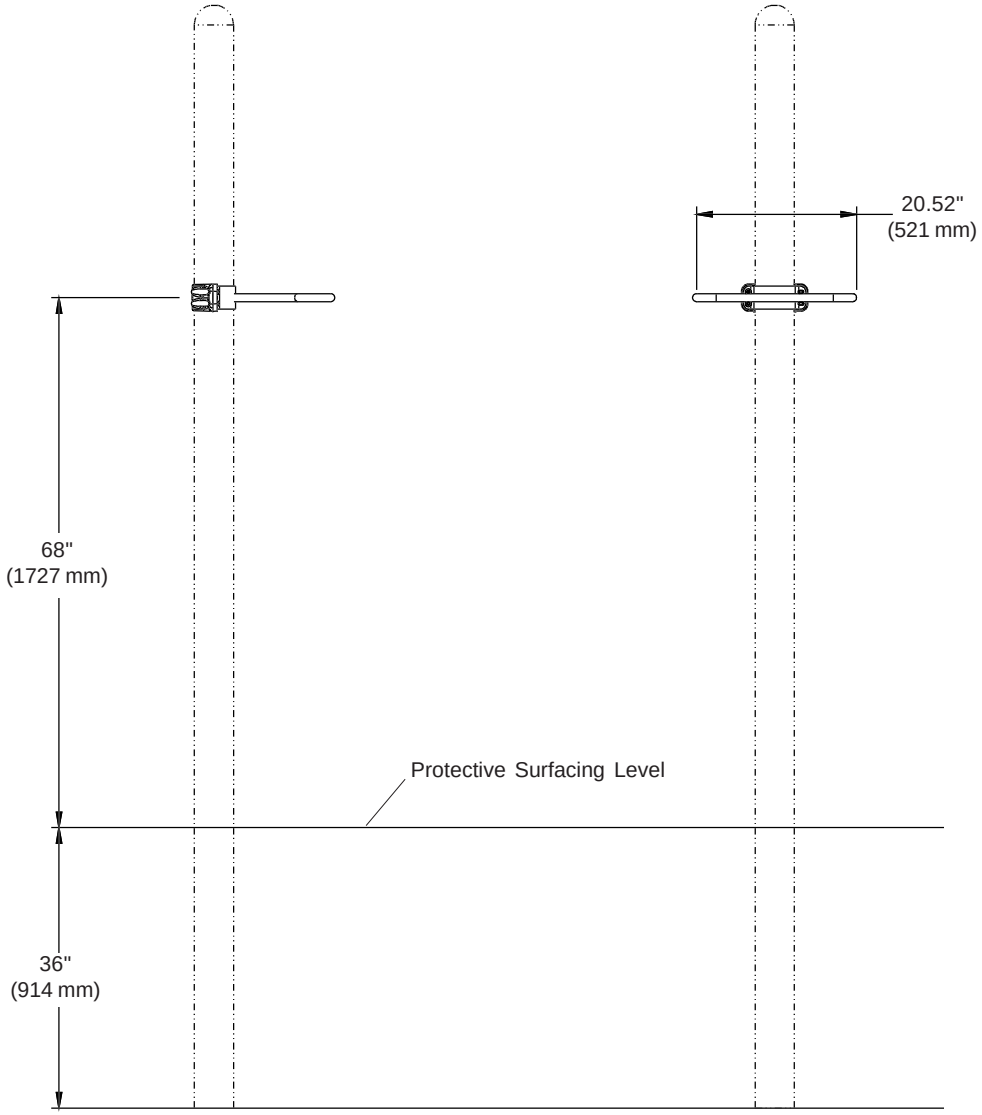
Recommended Crew:	One (1) adult
Installation Time:	1/2 hour
Weight:	7.2 Lbs. (3.3 Kilos)
Use Zone:	71 in. (1829 mm) all sides
User Group:	Ages 2 - 12 years

Torque Specification:

Bolts & Nuts:	Snug tighten and tighten an additional one-half turn.
Set Screws:	Snug tighten and tighten an additional full turn.

Maintenance . . .

- Playworld Systems strongly recommends the use of protective surfacing within the use zone of each play structure in accordance with ASTM specification F1292 appropriate for the fall height of each structure.
- Playworld Systems strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision. Do not use playground equipment when it is wet or snow covered.
- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently.



Elevation View

INSTALLATION

✓Notes Before You Begin:

- Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.
- If during the installation process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before re-installation.

Carefully read and understand these installation instructions before you begin.

__Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the (800) number shown on the last page of these instructions.

__Step 2: Separate and identify all components and hardware by referencing the detail drawings and packing list.

__Step 3: Leg Lift will be attached to a support post sold separately.

Attach leg lift to support post.

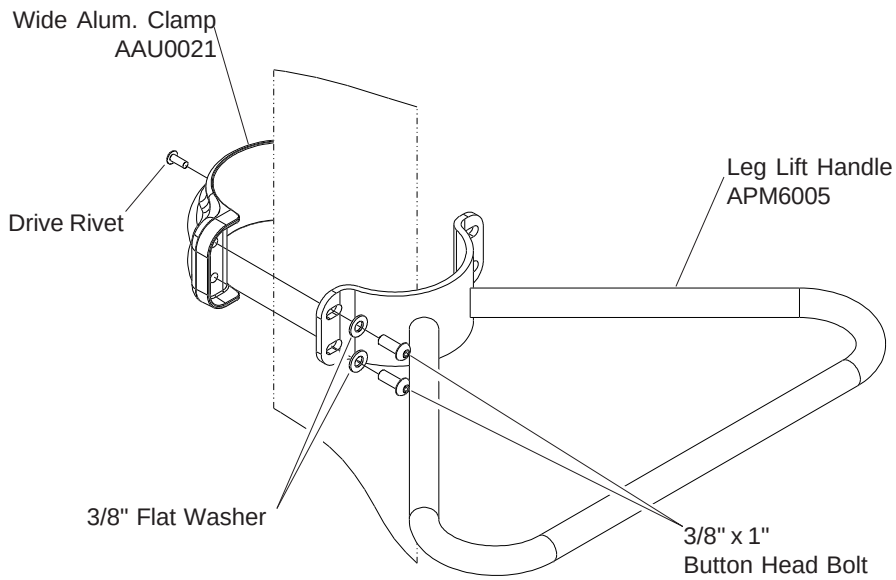
__Step 4: Attach leg lift to support post. See Detail A. Select leg lift handle, wide aluminum clamp, (4) four 3/8" x 1" button head bolts, and (4) four 3/8" flat washers. Sandwich the post between the wide clamp and handle clamp band. Align holes. Apply a drop of loctite to the bolt threads and insert each bolt through a flat washer, through the handle clamp band, and thread into the wide clamp.

Final Details.

__Step 5: Adjust height to approximately 68" (1727 mm) above the protective surfacing level. See **Elevation View**. Plumb and level entire component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. See page 1 of these instructions.

__Step 6: Install drive rivet. After the equipment assembly is complete, install a drive rivet in the aluminum clamp band to permanently secure it to the support post. See **Detail A**. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.



Detail A

BILL OF MATERIAL

PM - LEG LIFT

PART NO.	DESCRIPTION	QTY.
AAU0021	CLAMP - 5" WIDE ALUMINUM	1
APM6005	HANDLE - LEG LIFT w/5" CLAMP	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	1
BAE0595	WASHER - 3/8" SAE FLAT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	4

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PLAYWORLD SYSTEMS®
The world needs play.™

SUPERVISION INSTRUCTIONS

PLAYWORLD SYSTEMS® OVERHEAD COMPONENTS
(SEE COMPONENT LISTING BELOW)

⚠ WARNING

Attention: Owner

The Overhead Components are designed for hand over hand movement across the top rungs to foster play activity which combines upper body development, body control, hand eye coordination, and gripping ability.

Improper play and behavior on the Overhead Component can result in serious accidents. The following rules for the use of the component must be applied to reduce the possibility of debilitating injuries:

- Properly trained adult supervision is required at all times. The components are designed to accommodate children 5 through 12 years of age. Supervisors and parents should be aware of appropriate age and physical capabilities of the users.
- Do not crawl on, sit on, stand on or jump off the top of the assembly.
- Users must move in same direction across the length of the top of the component assembly. Always use fingers and thumbs for "Lock Grip" on hand rungs. Do not begin movement across the top hand rungs from opposite ends of the structure.
- Adequate distance, such as half the length of the ladder, must be maintained between users proceeding across the hand rung assembly.
- Be alert to swinging feet generated by body movement of participants using the apparatus.
- Do not use when hand rungs are wet as gripping capability is impaired. Use only when rungs are dry.
- Avoid speed contests or trying to cover too large a distance in one move.
- Drop from hand rungs with knees slightly bent and land on both feet.
- Protective surfacing material must be installed and maintained within the use zone of the Overhead Component in accordance with ASTM specification F1292 appropriate for the fall height of the Overhead Component .
- Review and familiarize warning document supplied with each Overhead Component shipment outlining owner's responsibilities on provided and maintaining required impact absorbing surfacing material.

As the owner of this playground equipment, you are responsible for communicating proper usage to those who may play on it.
Playworld Systems accepts NO responsibility for improper use.

Overhead Components include:

- Horizontal Ladders
- Horizontal Hand Over Hand Ladders
- Horizontal Loop Rung Ladders
- Under Catwalk Hand Over Hand
- Under Catwalk Loop Rung Ladder
- Sky Link
- Sky Arch

SUPERVISION INSTRUCTIONS

Movement Must Be In Same Direction With Adequate Distance Between Users

Do Not Begin Movement From Opposite Directions

Do Not Use When Hand Rungs Are Wet

Do Not Crawl Or Sit On Top Of The Hand Over Hand Ladder

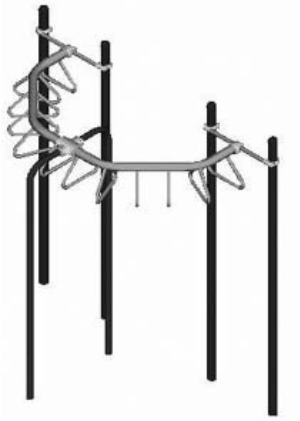
Do Not Stand On Or Jump Off Top Of The Hand Over Hand Ladder

Overhead Component shown is for example only. May not be the component ordered.

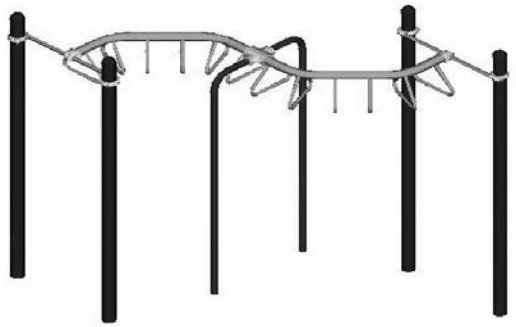
ZZUNWHOH
PA-833, PA1028

Installation Instructions

Playmakers® Models PM5830 and PM5830S
‘C’ & ‘S’ Horizontal Loop Ladder
In-Ground and Surface Mount



‘C’ Configuration

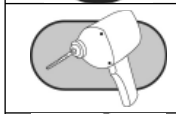
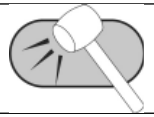
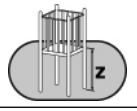


‘S’ Configuration

Assembly View *(representative model)*

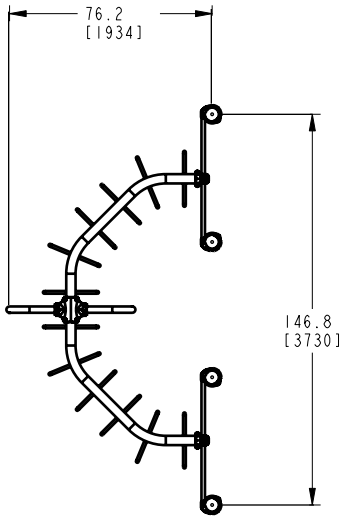
Installation Preparation

Recommended Crew:	Three (3) adults
Installation Time (surface mount):	1.5 man-hours
Installation Time (in-ground):	2.5 man-hours
Concrete Required:	0.06 cubic yard (0,04 cubic meters)
Use Zone:	Refer to Master Drawing
User Group Age (years):	ASTM/CSA: 5-12, EN: 6-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully TIghten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

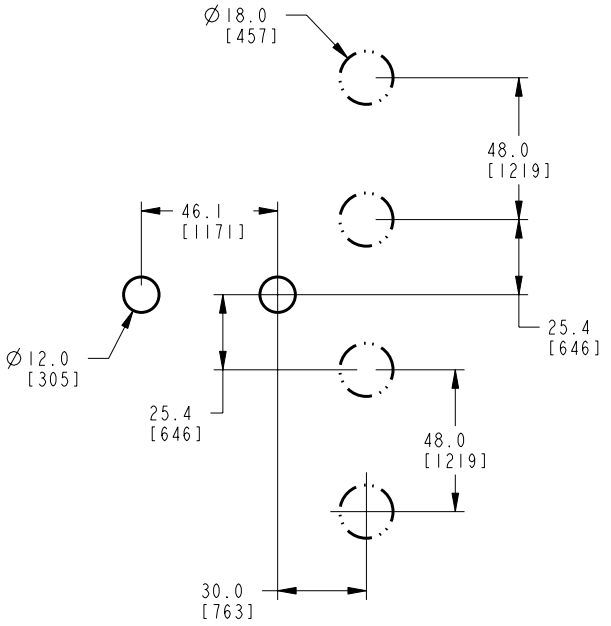
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

Top View

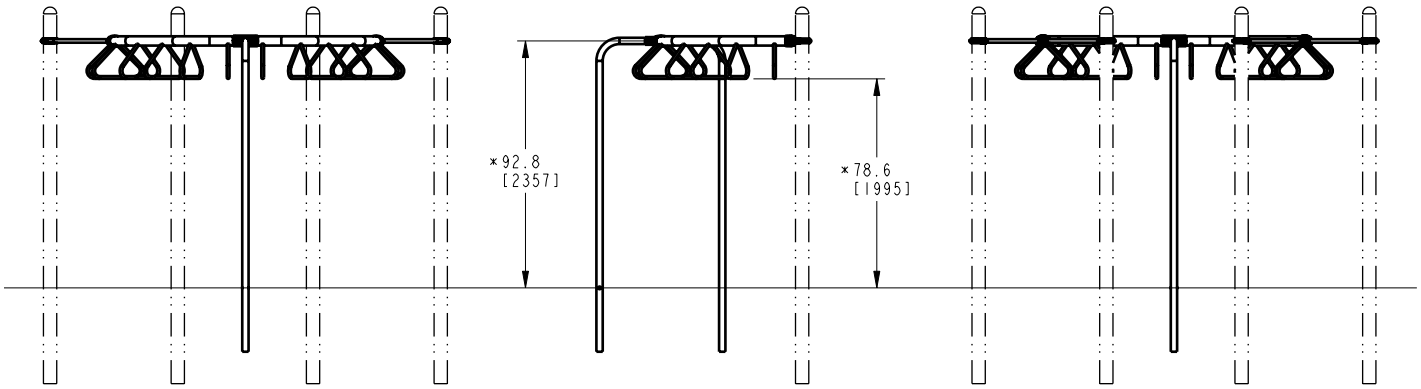


‘C’ Configuration

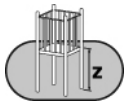
*__Note:__ Designed for maximum of 36" platform. When lowering ladder to accommodate other users, **adjust depth of footing proportionally**.



Footing Diagram



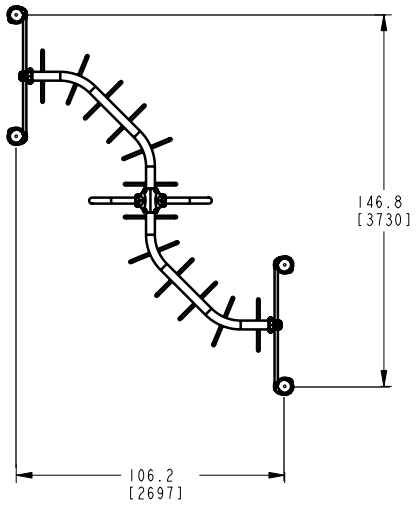
Elevation Views (PM5830)



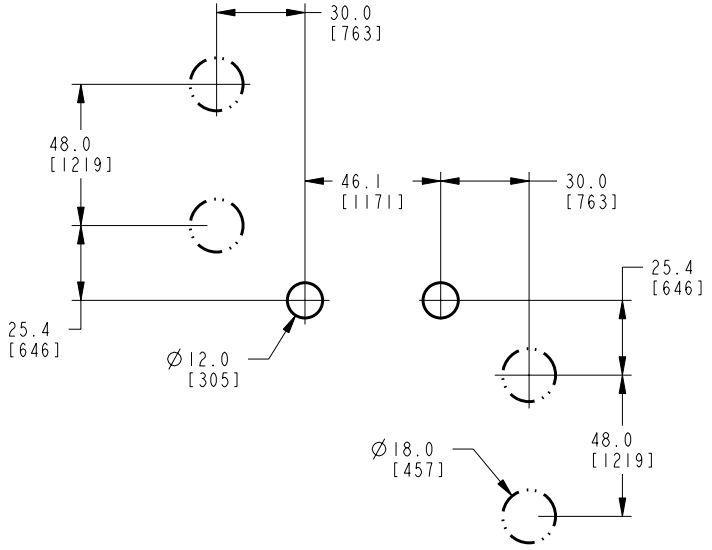
78.6" (1995 mm)
(Maximum 84" - 2135 mm)

KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

Top View

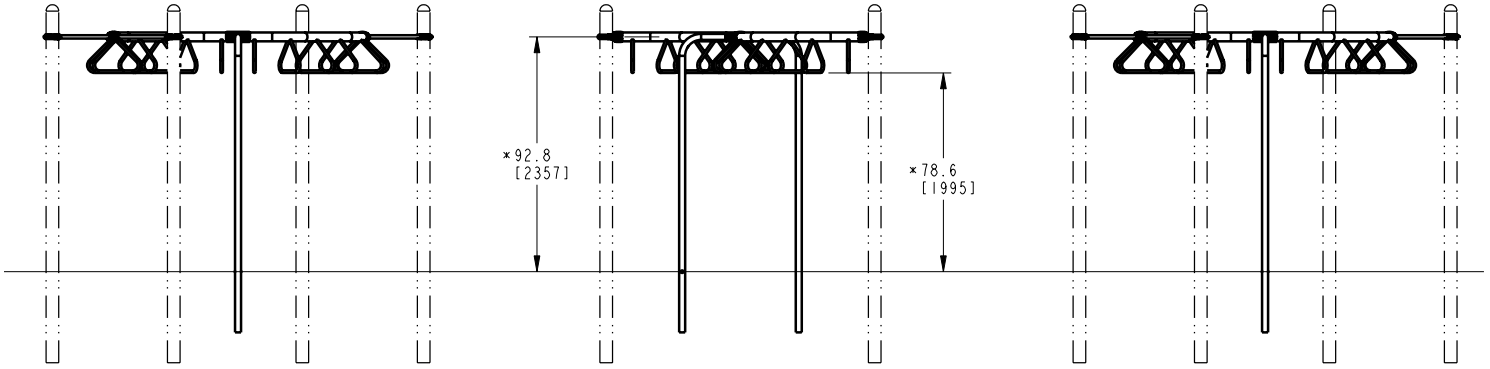


‘S’ Configuration

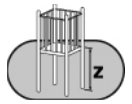


Footing Diagram

***Note:** Designed for maximum of 36" platform. When lowering ladder to accommodate other users, **adjust depth of footing proportionally**.



Elevation Views (PM5830)

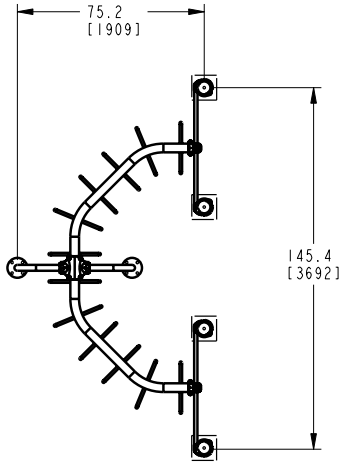


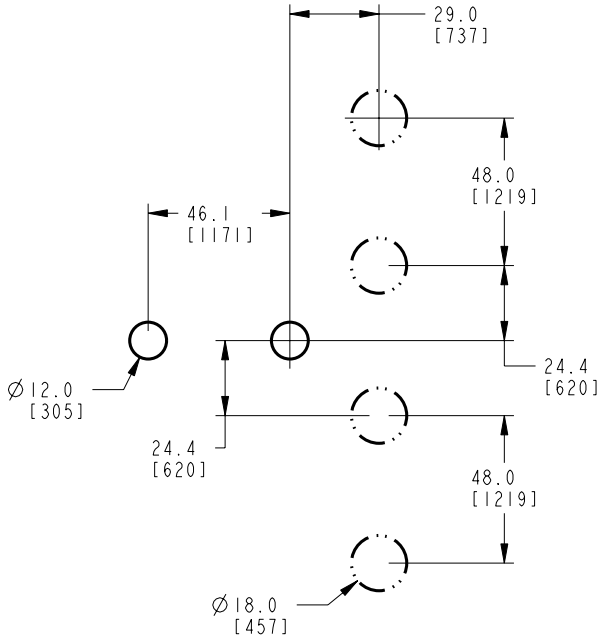
78.6" (1995 mm)
(Maximum 84" - 2135 mm)

KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

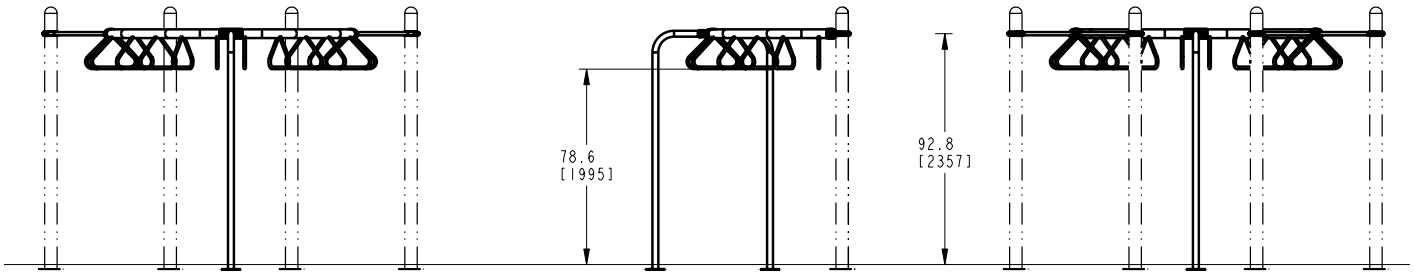
‘C’ Configuration

Top View

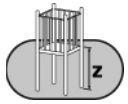




Footing Diagram



Elevation Views (PM5830S)

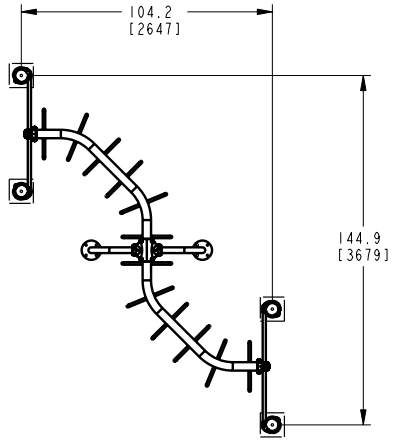


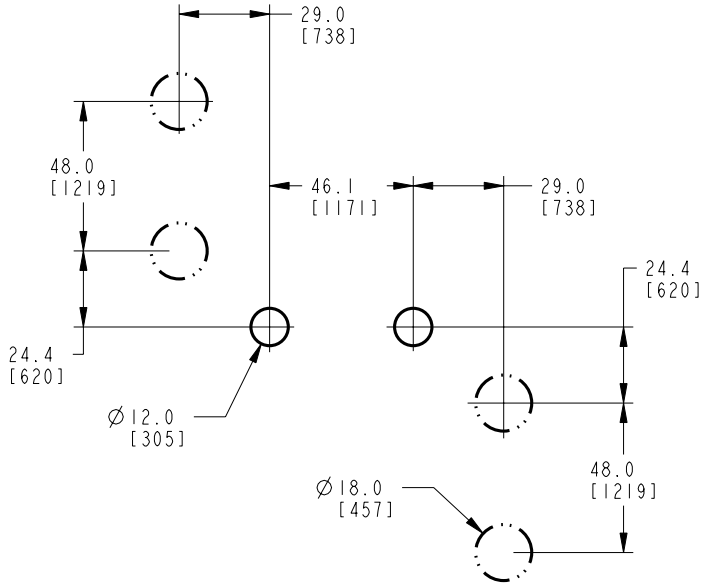
78.6" (1995 mm)
(Maximum 84" - 2135 mm)

KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

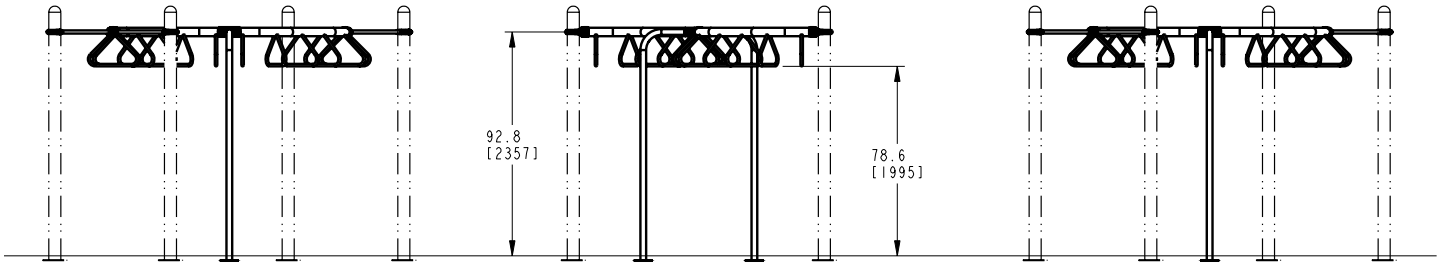
Top View

‘S’ Configuration

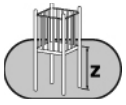




Footing Diagram



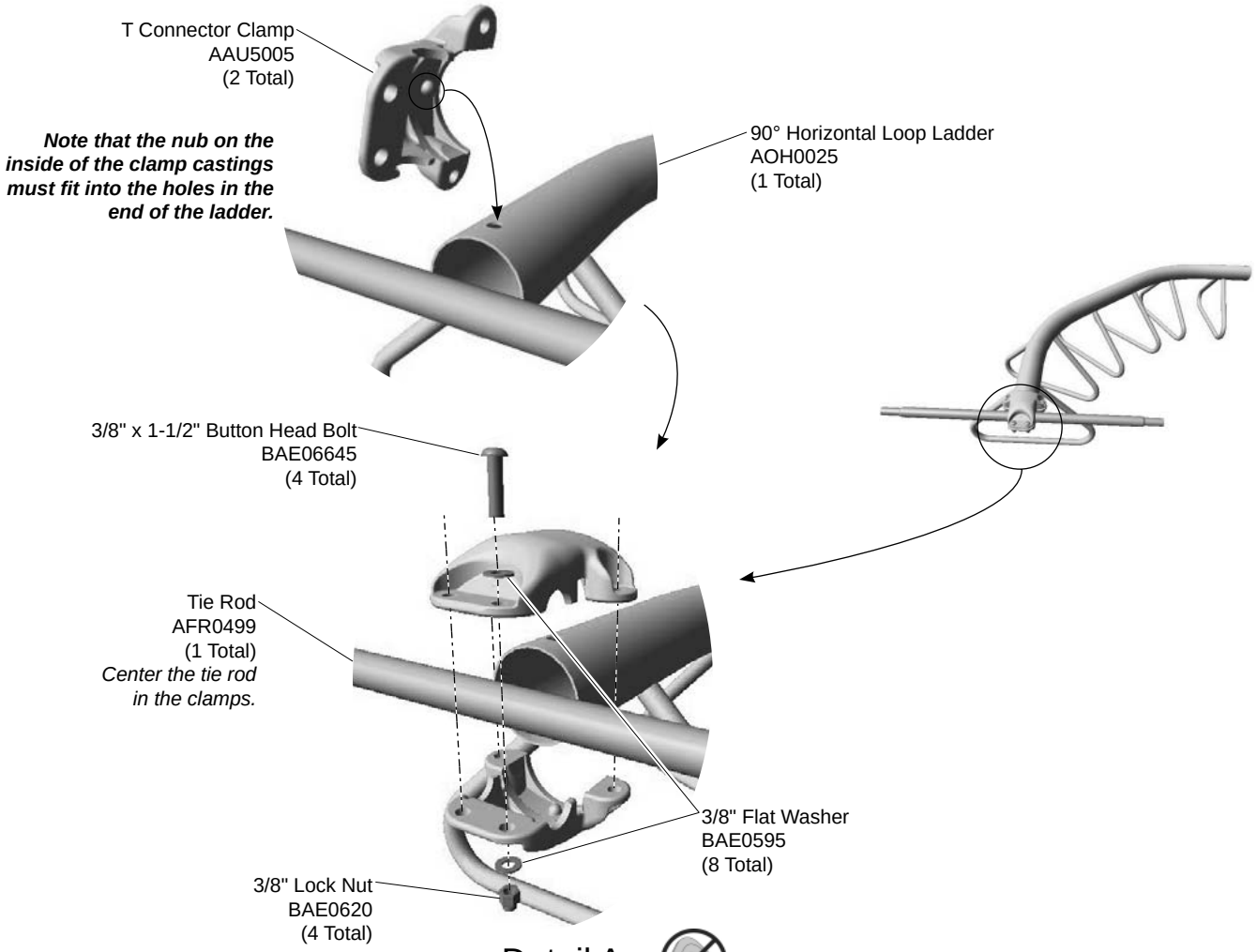
Elevation Views (PM5830S)



78.6" (1995 mm)
(Maximum 84" - 2135 mm)

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 12.

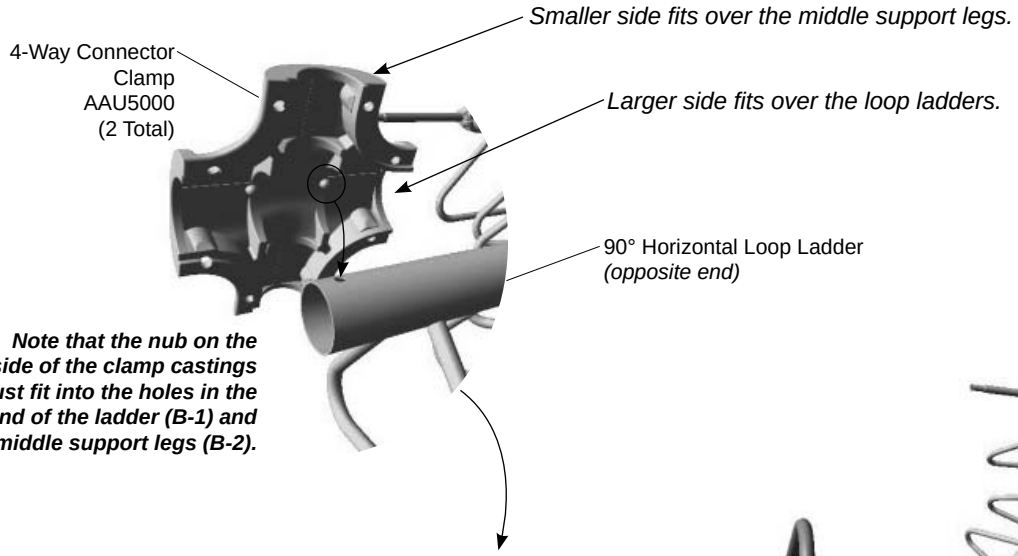
Important Note: Lay out the ladder sections matching the orientation of the master footing diagram. Attach tie rods to the end of the ladders that will be connected to the clamps on the support posts. The following details will illustrate the in-ground version with an 'S' configuration. Connections are the same for all models.



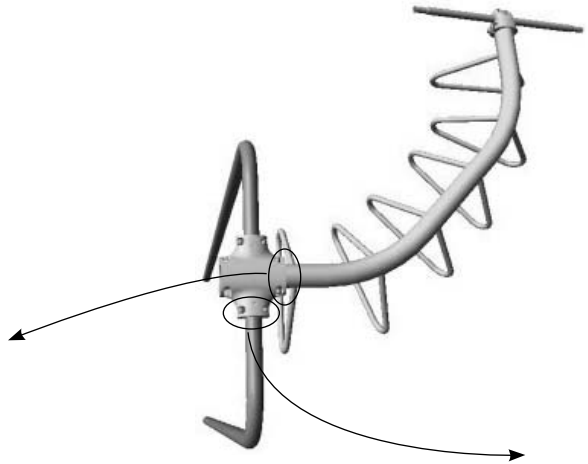
Detail A

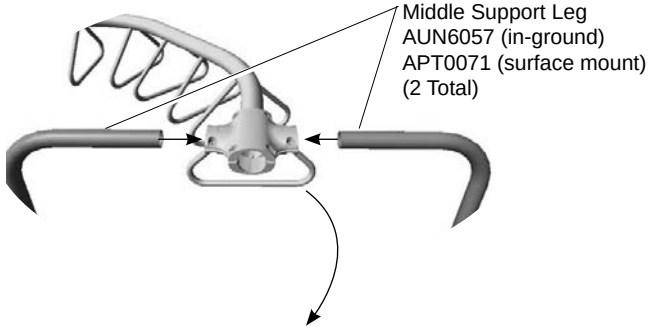
Step 4

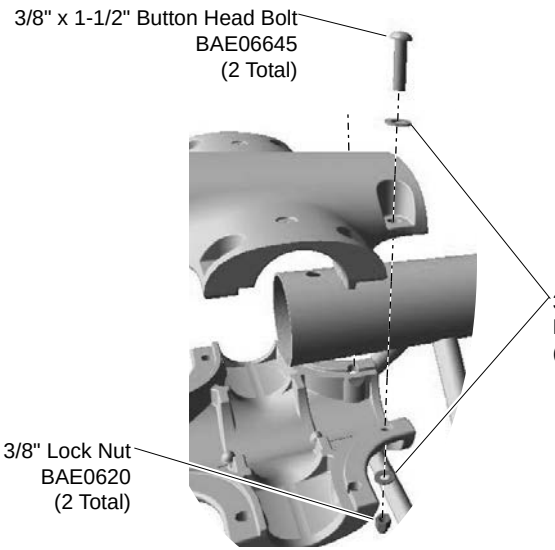
Attach a tie rod to the first loop ladder.



Note that the nub on the inside of the clamp castings must fit into the holes in the end of the ladder (B-1) and middle support legs (B-2).

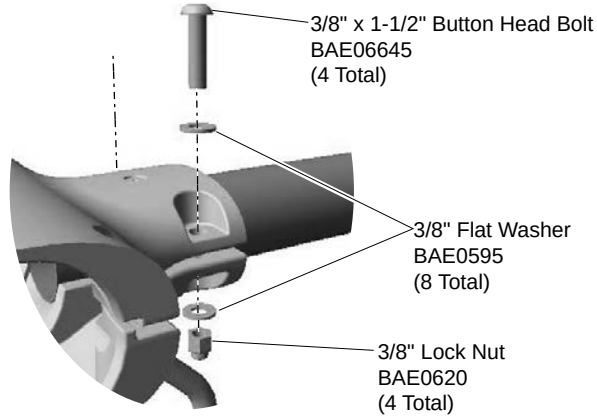






Detail B-1

Attach the 4-way connector clamps to the end of the first ladder .



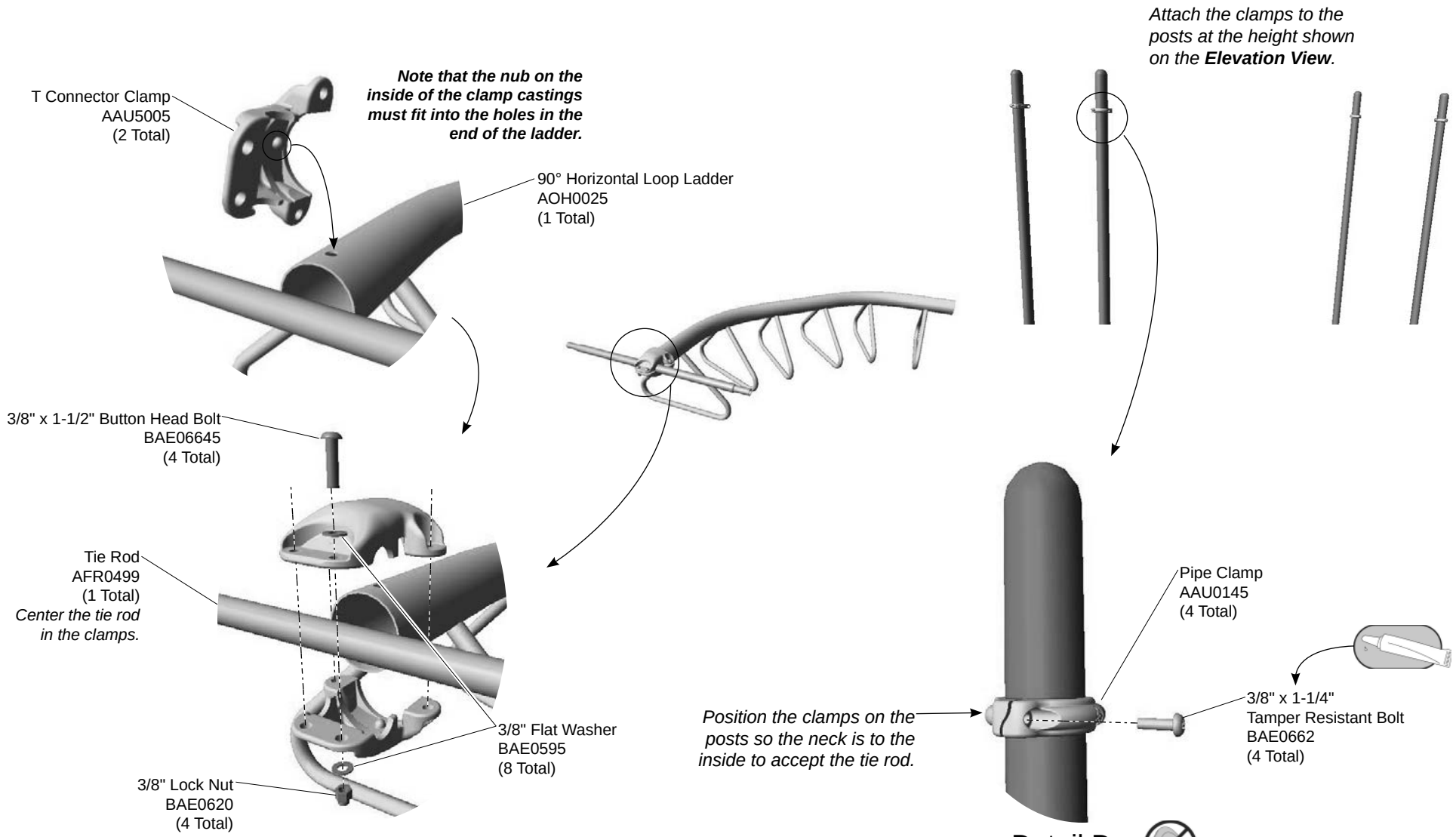
Detail B-2

Attach the middle support legs to the end of the first loop ladder .

Details B-1 and B-2

Step 5

Attach the 4-way connector clamps and the middle support legs to the opposite end of the first ladder.



Detail C

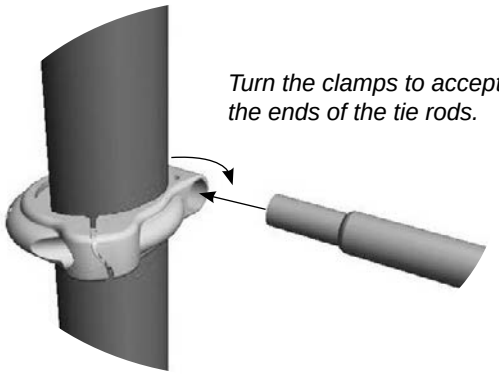
Step 6

Attach a tie rod to the second loop ladder.

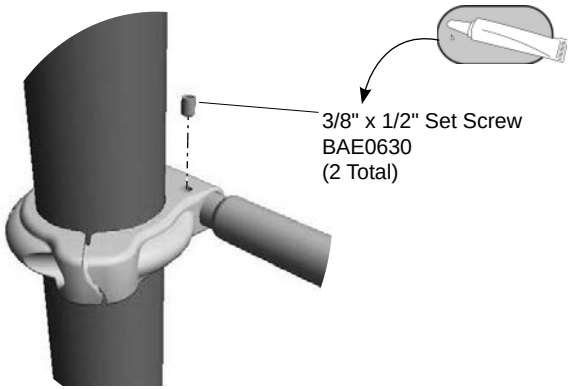
Detail D

Step 7

Attach the clamps to the support posts.



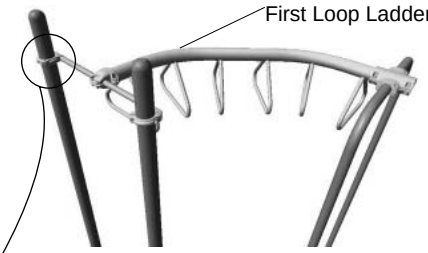
Turn the clamps to accept the ends of the tie rods.

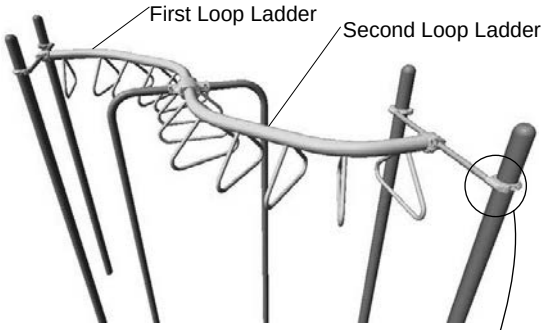


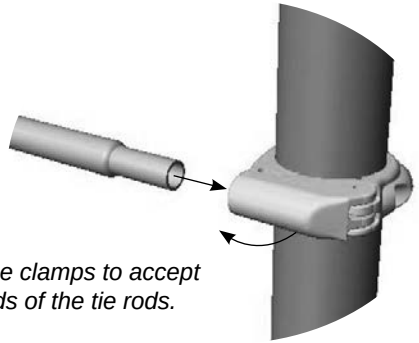
Detail E

Step 8

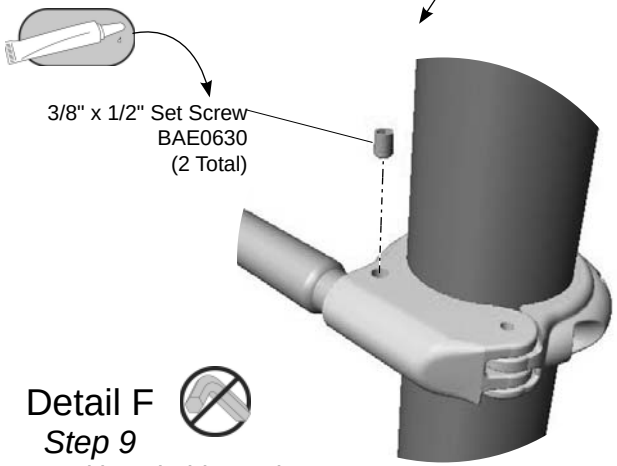
Attach the first loop ladder to the clamps on the support posts.







Turn the clamps to accept the ends of the tie rods.

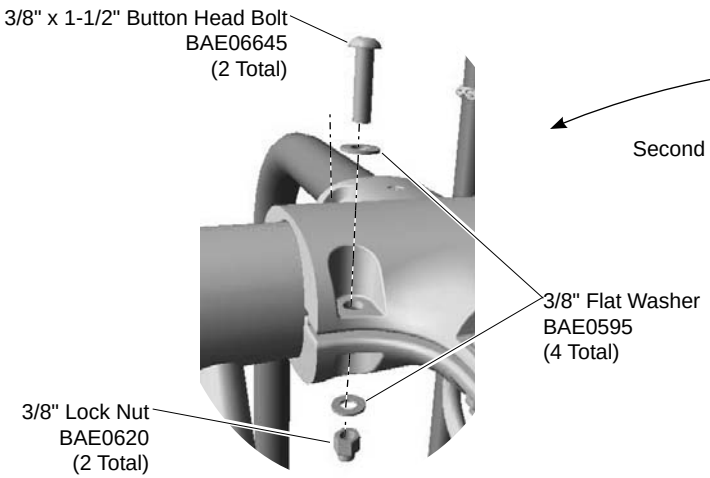


Detail F

Step 9

Attach the second loop ladder to the clamps on the other support posts.

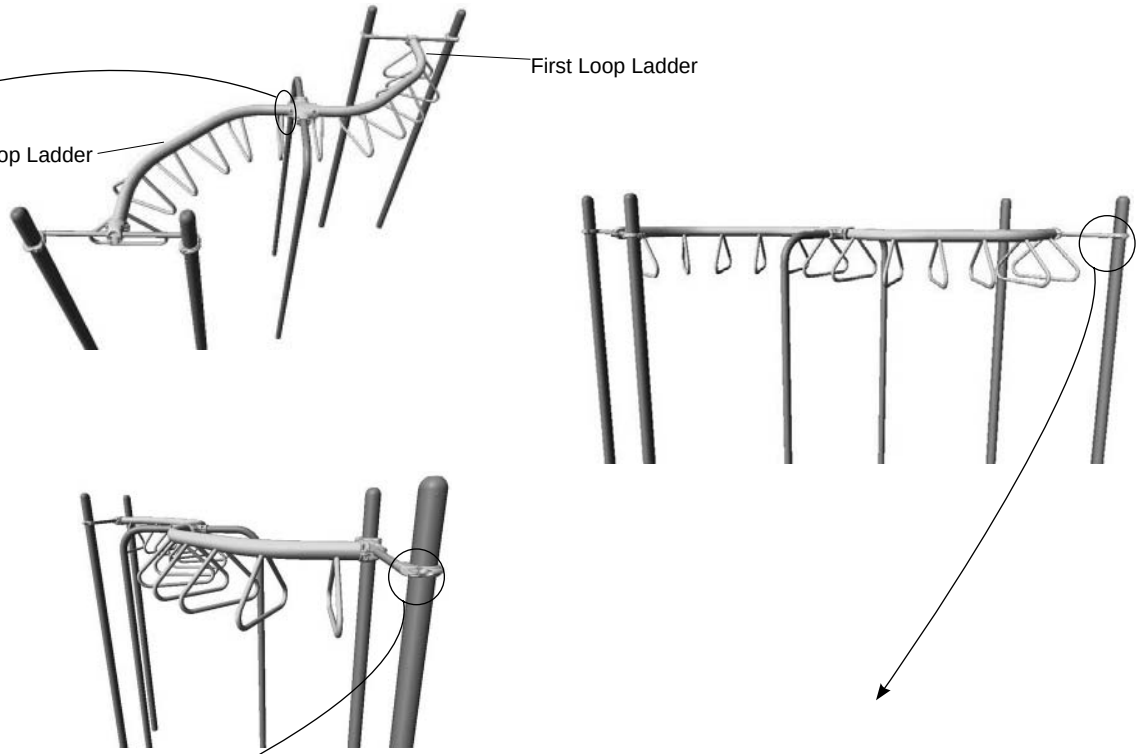
Note: *insert the open end of the second ladder into the 4-way connector clamps before attaching to the tie rod to the clamps on the support posts.*

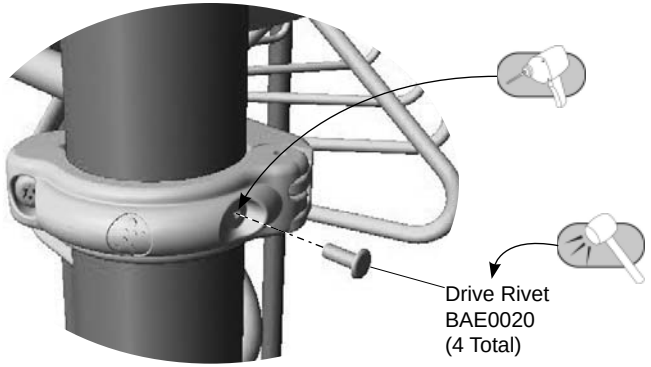


Detail G

Step 10

Attach the opposite end of the second loop ladder to the 4-way connector clamps.

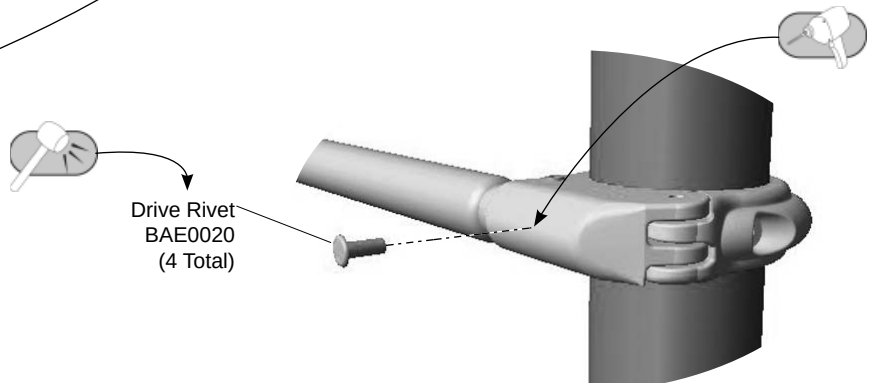




Detail H

Step 12

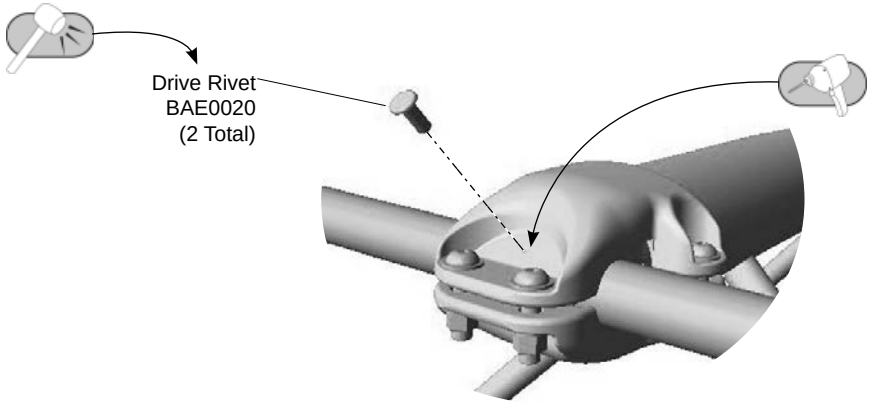
Secure the clamps to the support posts.

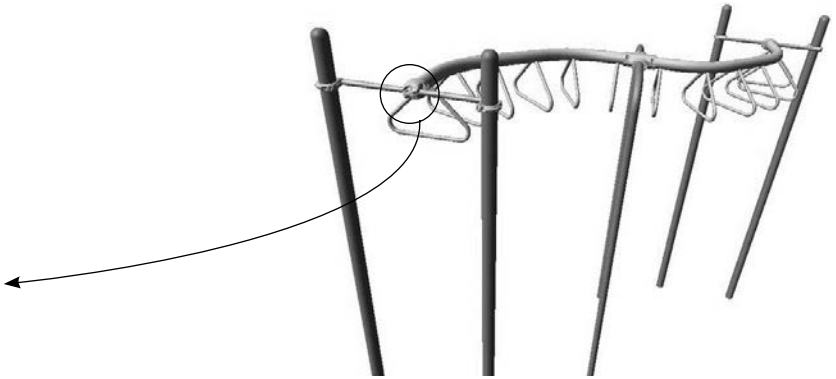


Detail I

Step 12

Secure the tie rods to the pipe clamps.

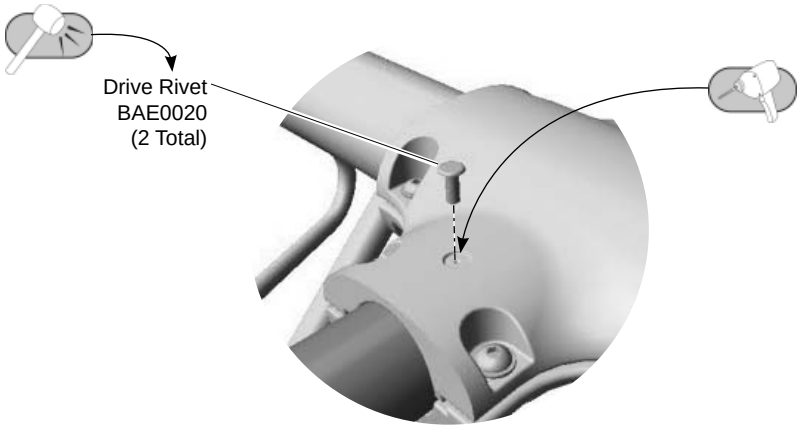




Detail J

Step 12

Secure the T connector clamps to the tie rods.



Detail K

Step 12

Secure the 4-way connector clamps to the middle support legs.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete unless otherwise instructed.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate, or prepare, the footing holes as shown in the **Footing Details** and master footing diagram. Refer to the ***Guidelines*** in the beginning of this instruction booklet for the footings. Use the **Component Footing Detail** for the middle support legs (in-ground only). ***Please refer to the note on footing depth (in-ground only) of the middle support legs on the elevation views.***

Important Note: Lay out the ladder sections matching the orientation of the master footing diagram.

Step 4: Attach a tie rod to the first ladder. See **Detail A**. Sandwich the clamps around the end of the ladder with the tie rod centered in the clamps and attach as shown. Attach to the end of the ladder that will be attached to the support posts, not to the middle support legs. ***Note that the nub on the inside of the clamp castings must fit into the holes in the end of the ladder.***

Step 5: Attach the 4-way connector clamps and the middle support legs to the opposite end of the first ladder. See **Details B-1 and B-2**. Sandwich the large sides of the connector clamps around the end of the ladder and attach as shown. Insert the top of each middle support leg into the smaller sides of the connector clamps and attach as shown. **Note that the nub on the inside of the clamp castings must fit into the holes in the end of the ladder (B-1) and middle support legs (B-2).**

Step 6: Attach a tie rod to the second ladder. See **Detail C**. Sandwich the clamps around the end of the second ladder with the tie rod centered in the clamps and attach as shown. Attach to the end of the ladder that will be attached to the support posts, not to the middle support legs. ***Note that the nub on the inside of the clamp castings must fit into the holes in the end of the ladder.***

Step 7: Attach the clamps to the support posts. See **Detail D**. Position the clamps around the posts at the height shown in the **Elevation View**, apply a drop of thread locking adhesive to the bolt threads, and attach as shown. Position the clamps on the posts so the neck is to the inside to accept the tie rods.

Step 8: Attach the first loop ladder to the clamps. See **Detail E**. With adequate manpower, lift the ladder up between the posts, with the middle support legs in or on their footings, and place the ends of the tie rods into the clamps. Apply a drop of thread locking adhesive to the set screw threads, and attach as shown.

Step 9: Attach the second loop ladder to the clamps on the other support posts. See **Detail F**. With adequate manpower, lift the ladder up between the posts, insert the open end into the 4-way connector clamps, and place the ends of the tie rods into the clamps on the support posts. Apply a drop of thread locking adhesive to the set screw threads, and attach as shown.

Step 10: Attach the opposite end of the second loop ladder to the 4-way connector clamps. See **Detail G**. Attach as shown in the detail.
Note that the nub on the inside of the clamp castings must fit into the holes in the end of the ladder.

Final Details.

Step 11: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

In-Ground: Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.

Surface Mount: Bolt down all surface mount supports in accordance with specifications provided by your registered structural engineer.
Important Note: Surface mount hardware is not supplied. Customer is responsible for concrete base and for providing surface mount hardware as specified by a registered structural engineer for each specific project application.

Step 12: Install drive rivets. See **Details H, I, J and K**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post, middle support leg, or tie rod. Using a 1/4" drill bit, drill through the clamp and support post, support leg, or tie rod. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM5850 - ‘C’ & ‘S’ HORIZONTAL LOOP LADDER

PART NO.	DESCRIPTION	QTY.
AAU0145	CLAMP - 5" PIPE DIE CAST	4
AAU5000	CLAMP - 2.375" O.D. x 3.5" O.D. 4 WAY	2
AAU5005	CLAMP - 1.315" x 3.5" T-CONNECTOR	4
AFR0499	RUNG - 1.315" O.D. x 49" w/INNER RUNG	2
AOH0025	LADDER - 90° HORIZONTAL LOOP	2
AUN6057	POST - ‘C’ & ‘S’ HORIZ. LOOP LADDER CNTR SUPPORT	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	12
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	16
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/ TORX DRV	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM5850S - ‘C’ & ‘S’ HORIZONTAL LOOP LADDER SURFACE MOUNT

PART NO.	DESCRIPTION	QTY.
AAU0145	CLAMP - 5" PIPE DIE CAST	4
AAU5000	CLAMP - 2.375" O.D. x 3.5" O.D. 4 WAY	2
AAU5005	CLAMP - 1.315" x 3.5" T-CONNECTOR	4
AFR0499	RUNG - 1.315" O.D. x 49" w/INNER RUNG	2
AOH0025	LADDER - 90° HORIZONTAL LOOP	2
APT0071	POST - S/M CNTR LEG FOR ‘C’ & ‘S’ HORIZ. LOOP LDDR	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	12
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0620	NUT - 3/8"-16 LOCK w/ NYLON CAP	16
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	4
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	16
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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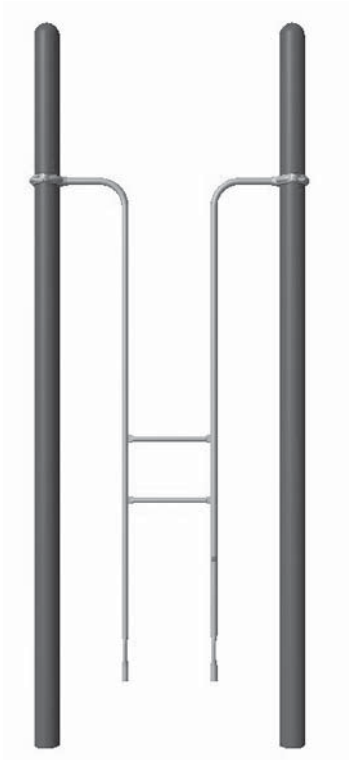


Assembly View *(representative model)*

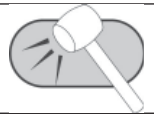
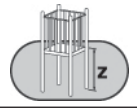
Installation Instructions

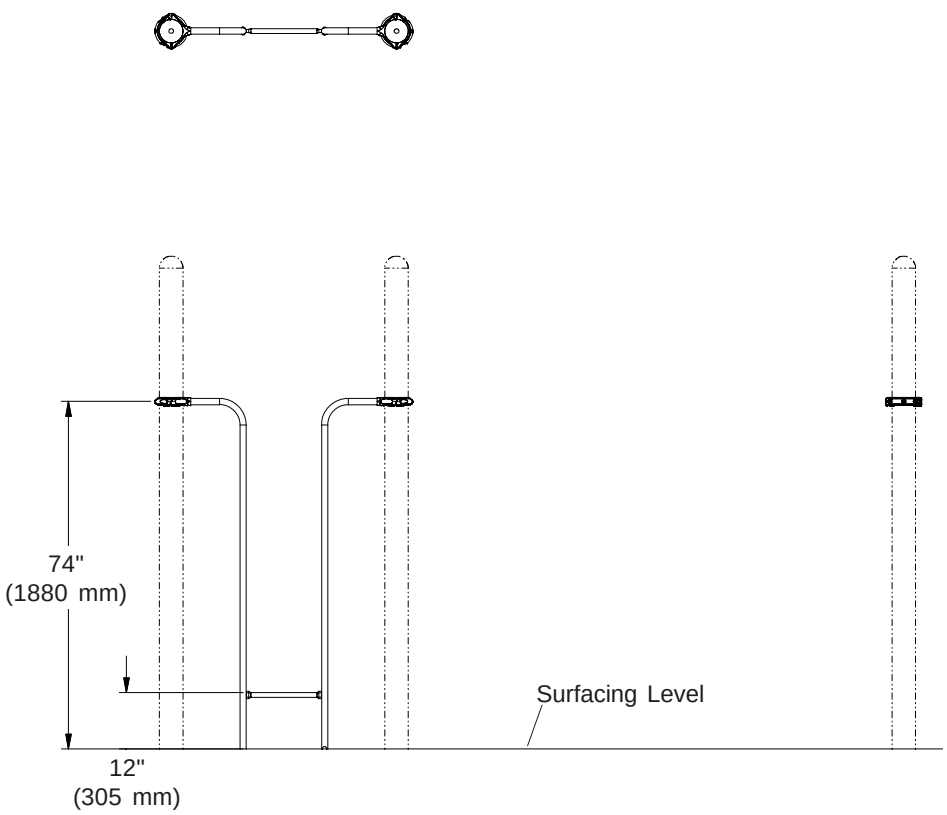
Playmakers® Models PM5950, PM5960, and PM5970
1, 2, and 3 Rung Overhead Event Access Ladder
12 in. (305 mm), 24 in. (610 mm), and 36 in. (915 mm)

Installation Preparation

Recommended Crew: ..... One (1) adult
Installation Time: ..... 1.5 installation-hours
Weight: ..... (refer to table)
Concrete Required: ..... 0.06 cubic yard (0,04 cubic meters)
Use Zone: ..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 5-12, EN: 2-14

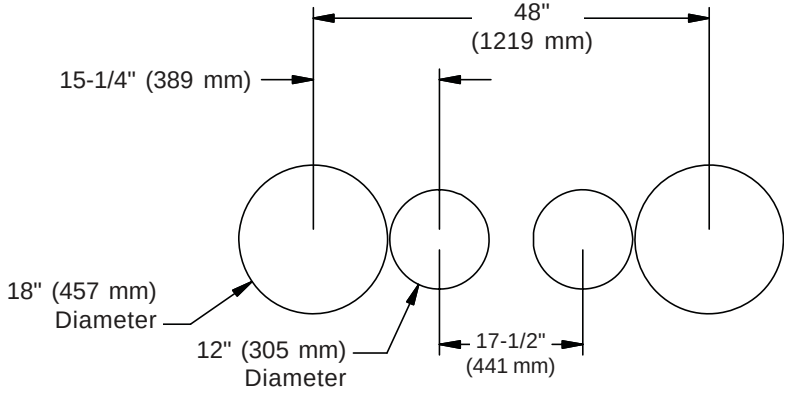
Model	Deck Height	Weight
ZZPM5950	12" (305 mm)	25 lbs. (11 kg)
ZZPM5960	24" (610 mm)	28 lbs. (13 kg)
ZZPM5970	36" (915 mm)	26.2 lbs. (11,8 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

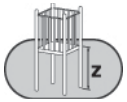


Elevation View

Elevation Views
PM5950

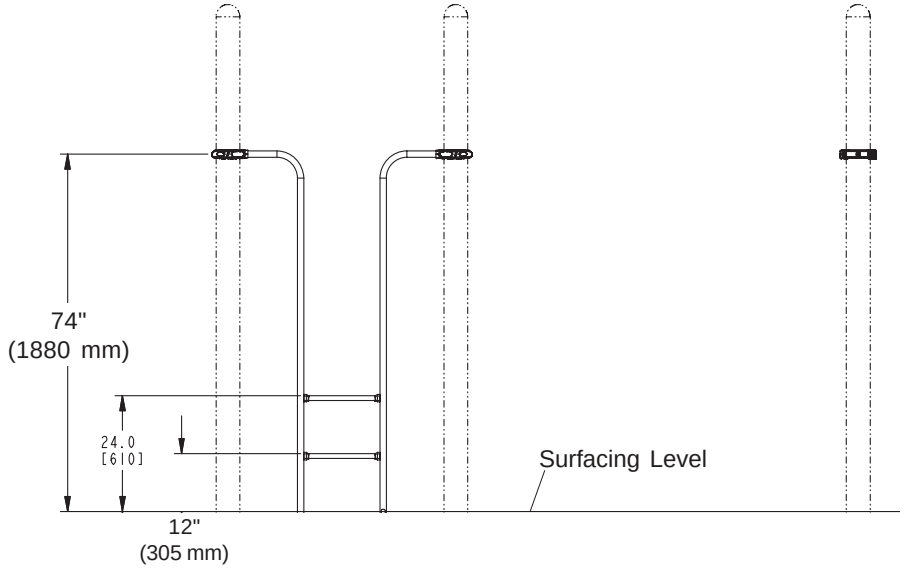


Footing Diagram
All Models



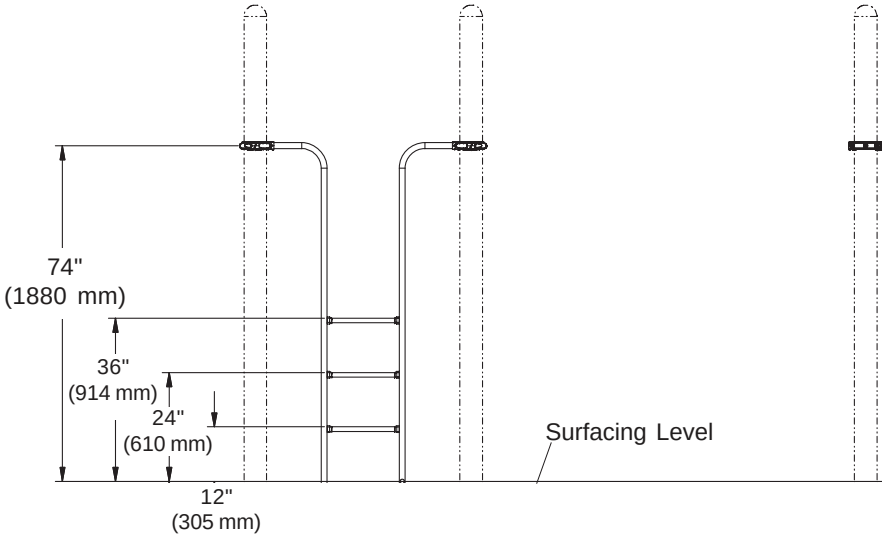
EN: 305 mm

Top View

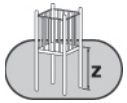


Elevation Views
PM5960

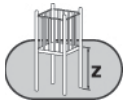
Top View



Elevation Views
PM5970



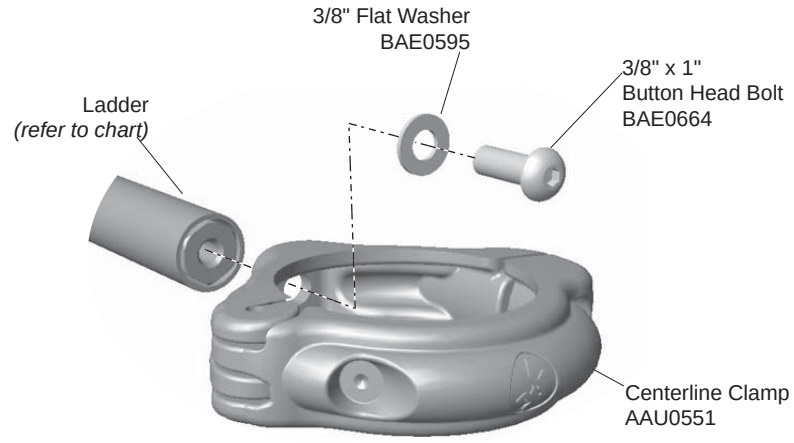
EN: 610 mm



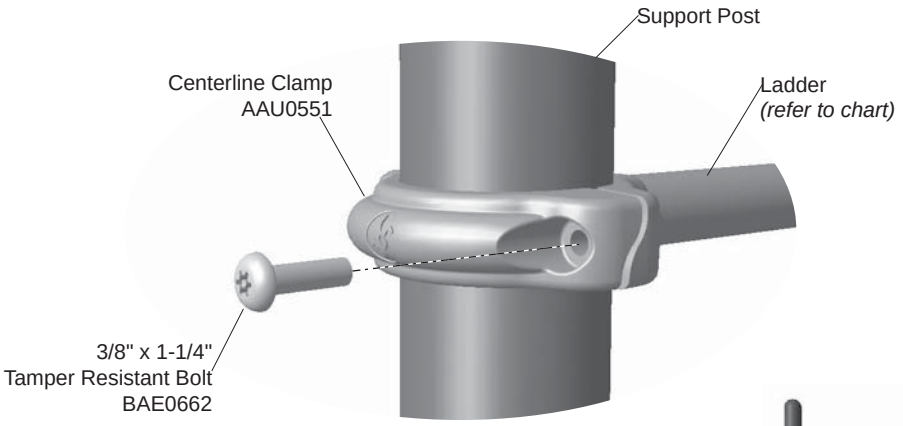
EN: 915 mm

Installation Instructions

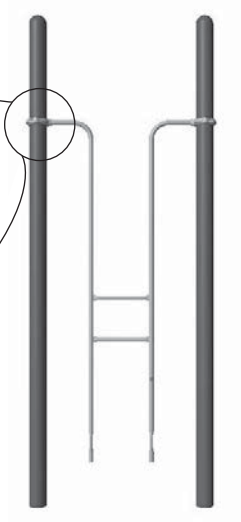
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.

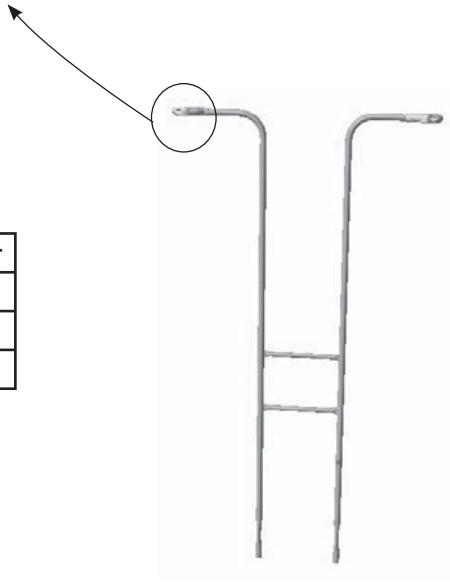


Detail A
Step 4

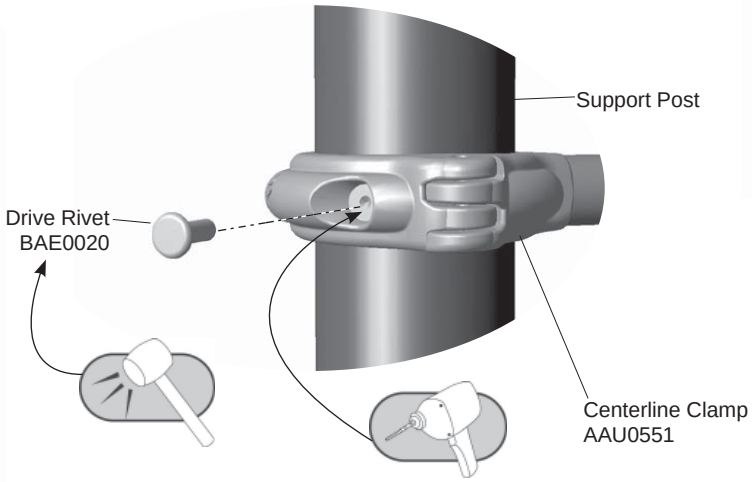


Detail B
Step 5





Model	Ladder Part Number
ZZPM5950	ACL0107
ZZPM5960	ACL0109
ZZPM5970	ACL0111



Detail C
Step 7

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.
Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Excavate footings as shown in the **Component Footing Details** in the *Playmaker Guidelines*.

Attach the clamps to the access ladder.
Step 4: See **Detail A**. Select the access ladder, the centerline clamps, and the appropriate hardware. There are (2) two connections. Position the neck of each clamp against the top of the ladder. Attach as shown. Turn the hinges toward the deck and fully tighten the connections.

Attach the clamps to support posts.
Step 5: See **Detail B**. Select the appropriate hardware. There are (2) two connections. Place the ladder into the excavated footings. Close the clamps around the support posts and attach as shown. Snug tighten connection only. Adjust the height of the access ladder to the dimensions as shown in the **Elevation View** and secure clamps to support posts.
Note: The surfacing level indicator line on the ladder should be at the same level as the ones on the support posts.

Final Details.
Step 6: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications. Block and brace for concrete. Pour concrete after all equipment has been assembled. Allow 72 hours for concrete to completely cure.
Torque Specifications:
Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Step 7: Install drive rivets. See **Detail C**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

PM5950 - OVERHEAD EVENT ACCESS LADDER (1) ONE RUNG

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0107	LADDER - ONE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5960 - OVERHEAD EVENT ACCESS LADDER (2) TWO RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0109	LADDER - TWO RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

PM5970 - OVERHEAD EVENT ACCESS LADDER (3) THREE RUNGS

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	2
ACL0111	LADDER - THREE RUNG OVERHEAD ACCESS	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	2
BAE0595	WASHER - 3/8" SAE FLAT	2
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	2
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	2

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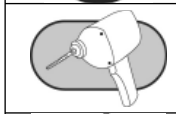
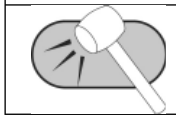
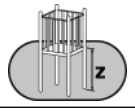
Installation Instructions

Playmakers® Model PM6590
6 ft. (1829 mm) Arch Bridge

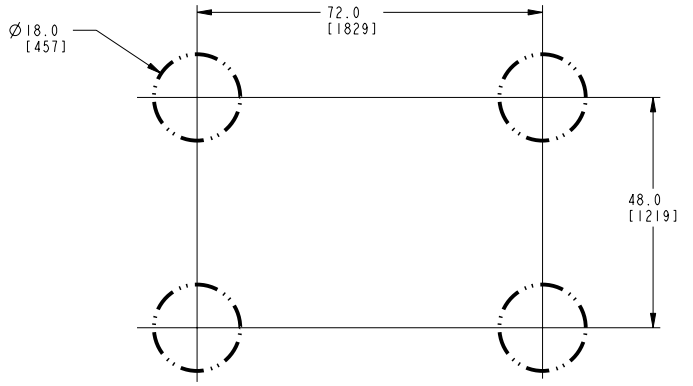
Assembly View

Installation Preparation

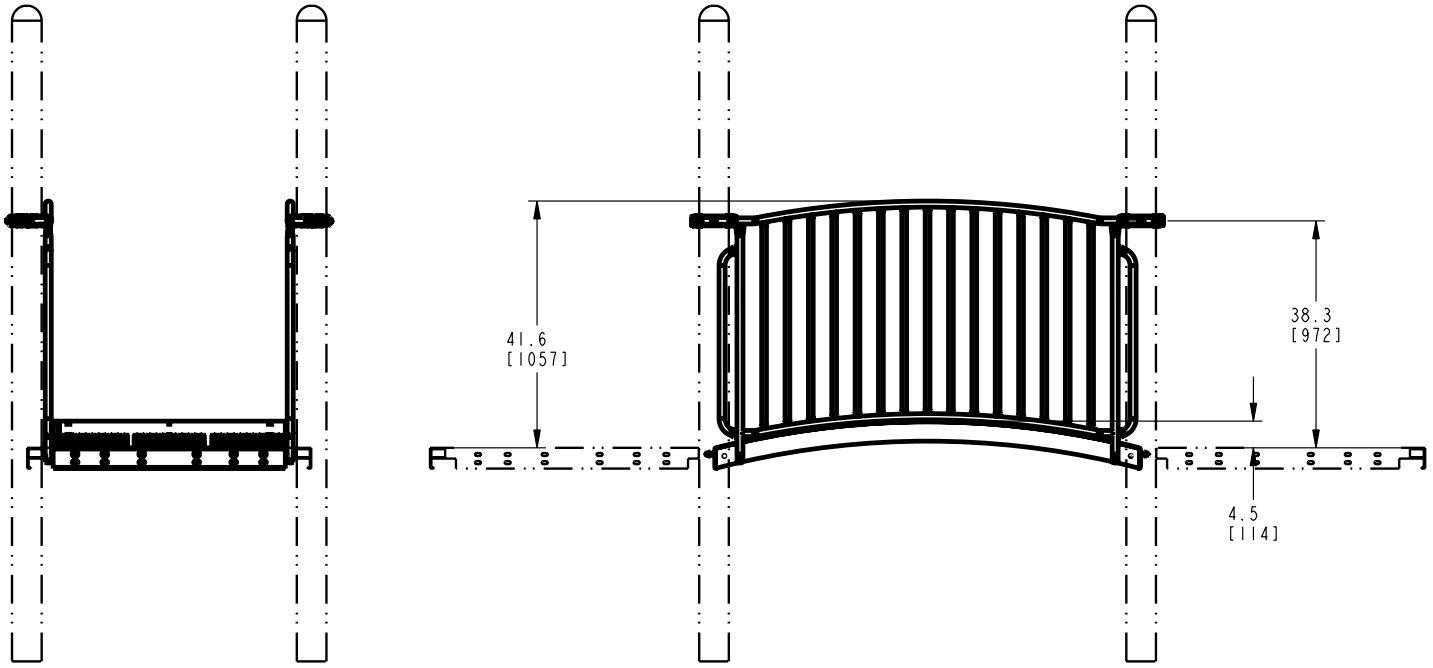
Recommended Crew: ..... Four (4) adults
Installation Time: ..... 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully TIghten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

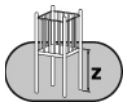
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]



Footing Diagram



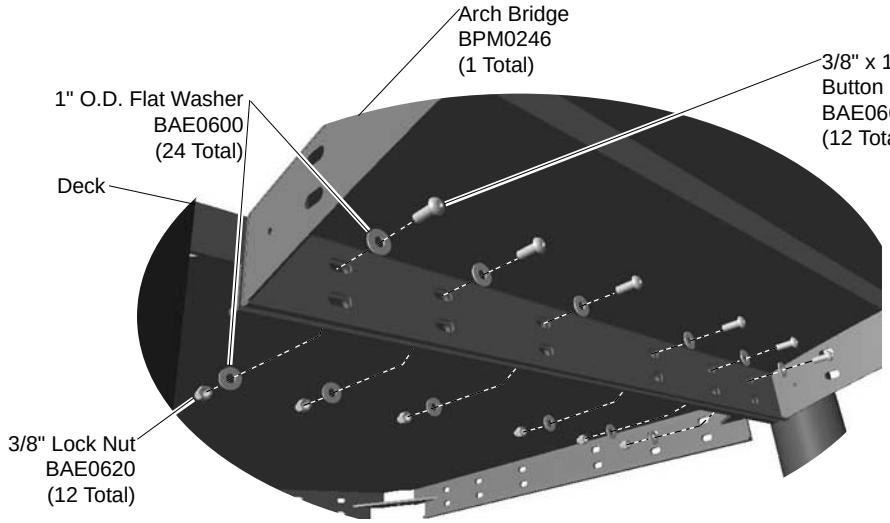
Elevation View



Height of the deck plus 8.5" (215 mm)

Installation Instructions

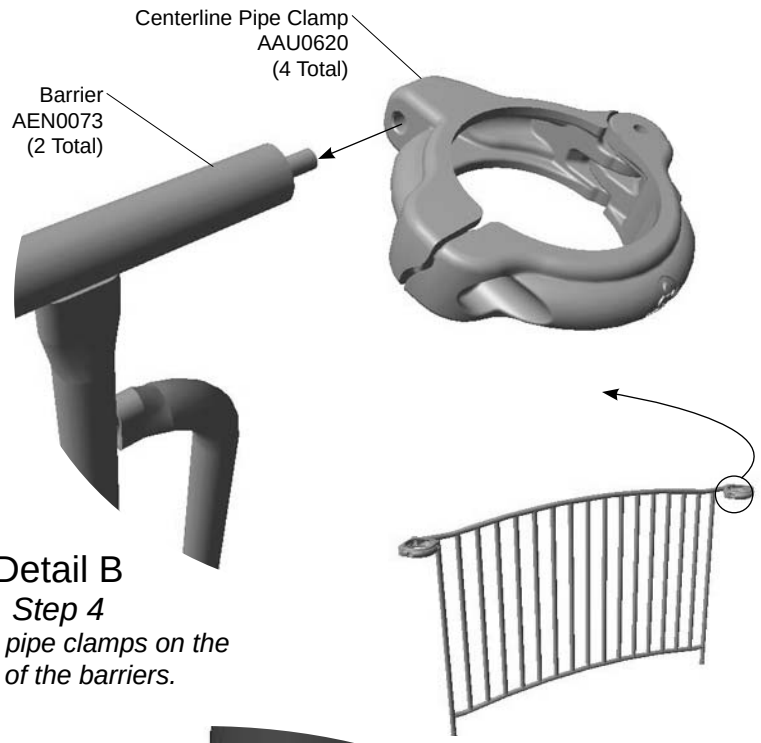
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A

Step 3

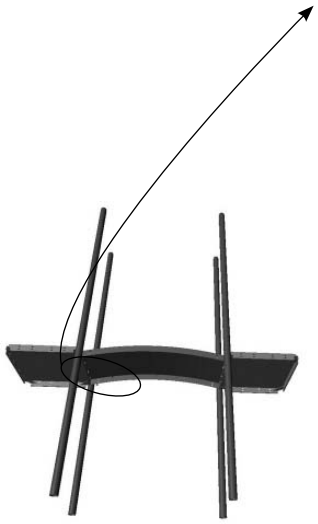
Attach the bridge section to the decks.

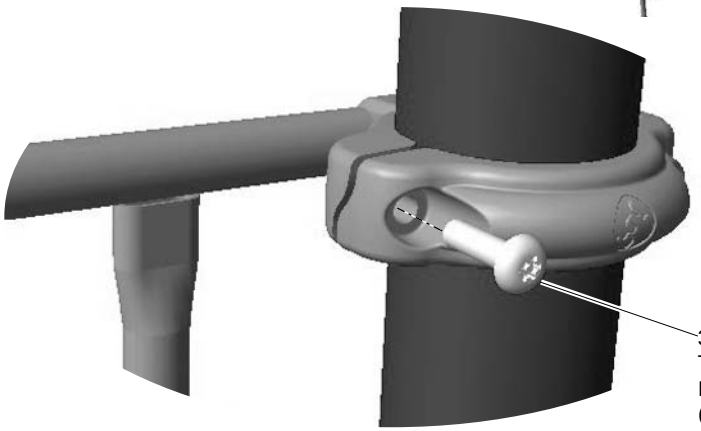


Detail B

Step 4

Place the pipe clamps on the ends of the barriers.

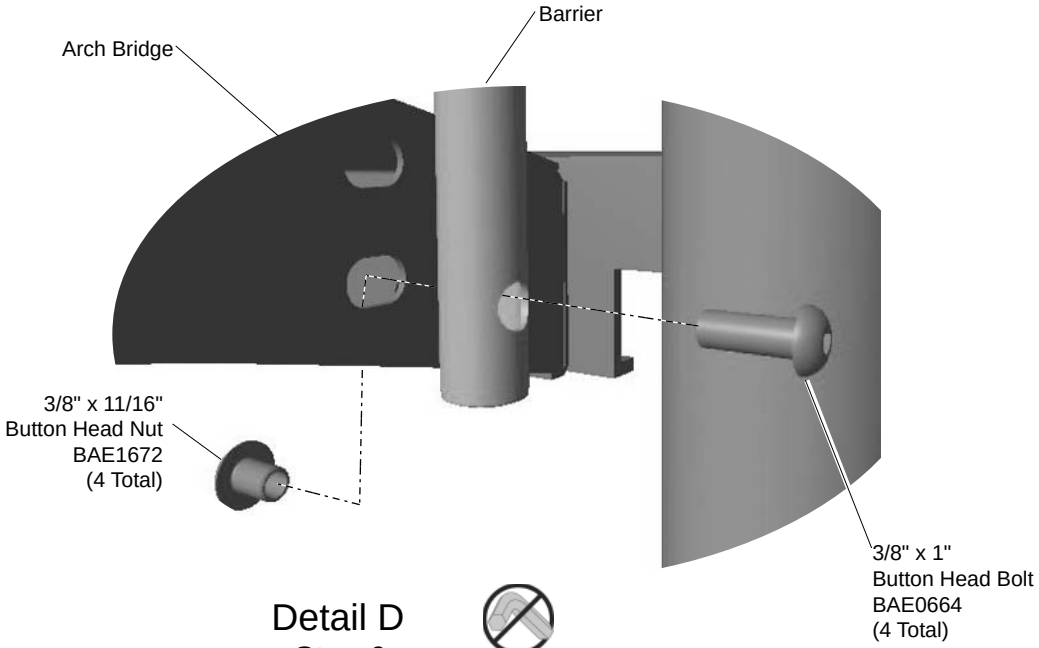




Detail C

Step 5

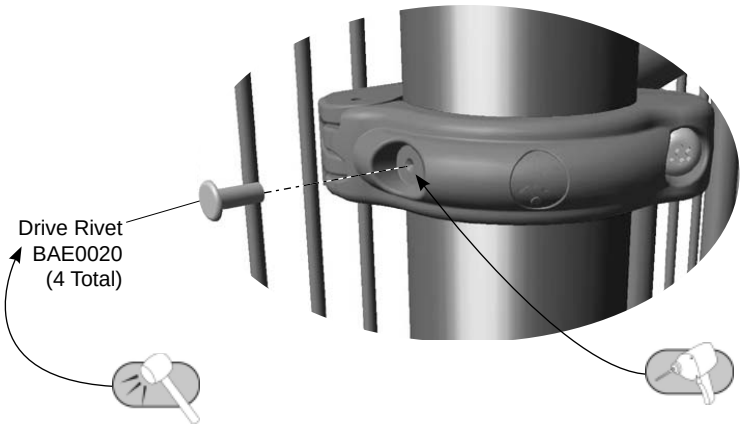
Attach the barriers to the support posts.



Detail D

Step 6

Attach the barriers to the bridge.



Detail E

Step 8

Secure the clamps to the support posts.

Installation Instructions

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the arch bridge to the decks. See **Detail A**. Due to the weight of the bridge, a minimum of three average size adults are necessary to position the bridge section between the decks. Position the bridge against the decks and attach as shown. Make the connections using the **top holes**. Leave the connections loose.

Step 4: Attach the clamps to arch bridge barrier. See **Detail B**. Thread a clamp onto each threaded stud of the arch bridge barriers. Position the clamps to the inside of each barrier.

Step 5: Attach arch bridge barrier to support posts. See **Detail C**. Lift a barrier with clamps into position. Secure the clamps to the support post as shown. Do not fully tighten bolt due to allow adjustment.

Step 6: Attach arch bridge barrier to arch bridge. See **Detail D**. Position the barrier against the side of the bridge. Attach as shown.
Note: There are upper and lower holes along the side of the arch bridge for barrier attachment, choose which hole will accommodate the position of the clamps at the posts to avoid adjacent component clamp interference.

Final Details.
Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.
Torque Specifications: Bolts & Nuts - Snug tighten and then tighten an additional half turn.

Step 8: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each pipe clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, pound the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM6590 - 6 ft. (1829 mm) ARCH BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0620	CLAMP - 5" OFFSET CENTERLINE DIE CAST	4
AEN0073	BARRIER - 6' ARCH BRIDGE	2
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0600	WASHER - 1" O.D. FLAT	24
BAE0620	NUT - 3/8"-16 LOCK W/ NYLON CAP	12
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESISTANT	4
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	16
BAE1672	NUT - 3/8-16 x 11/16" BUTTON HEAD	4
BPM0246	ARCH- 71.75" x 8" x 39.13" x 8.00"	1
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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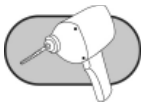
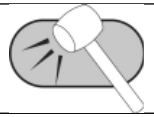
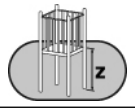
Installation Instructions

Playmakers® Models PM8480 and PM8486
6 ft. (1829 mm) and 10 ft. (3048 mm)
Ripple Bridge

Assembly View *(representative model)*

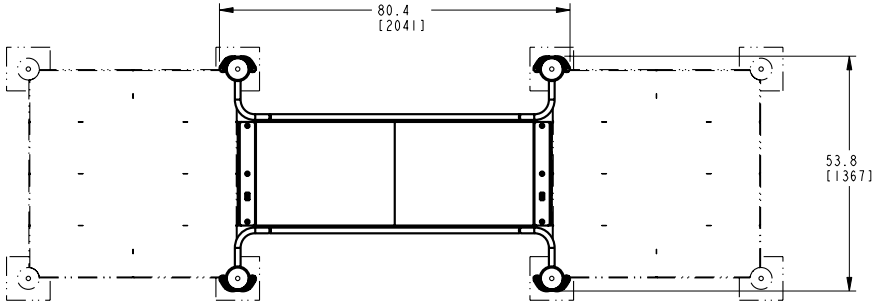
Installation Preparation

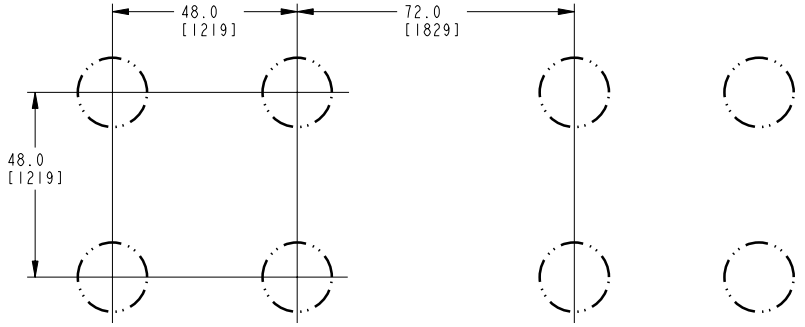
Recommended Crew: ..... Two (2) adults
Installation Time: ..... 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully TIghten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

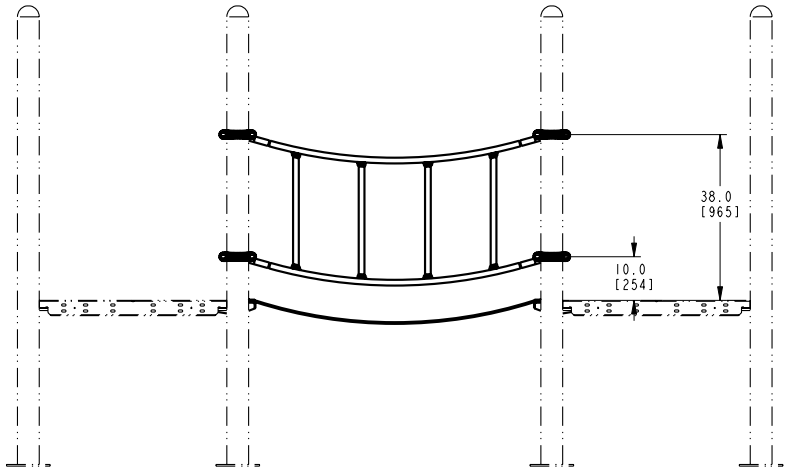
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

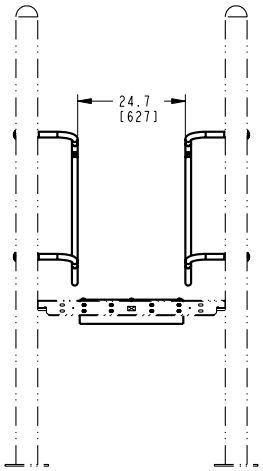
Top View



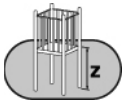


Footing Diagram





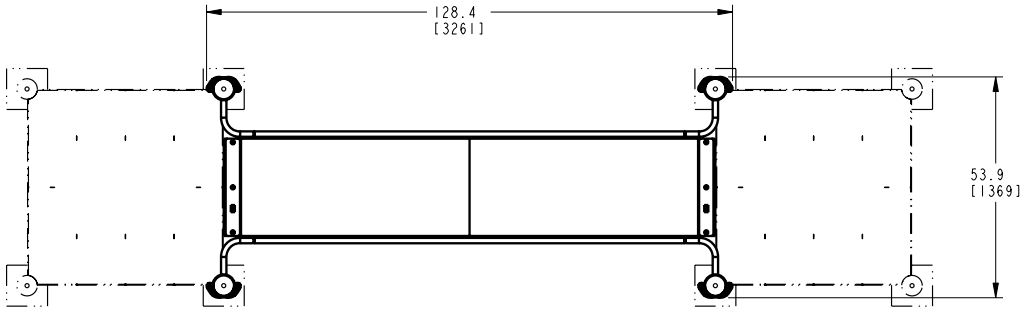
Elevation Views
PM8480

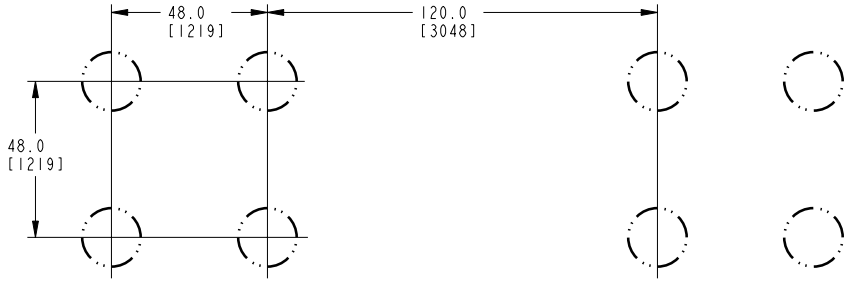


Equal to the height of the deck.

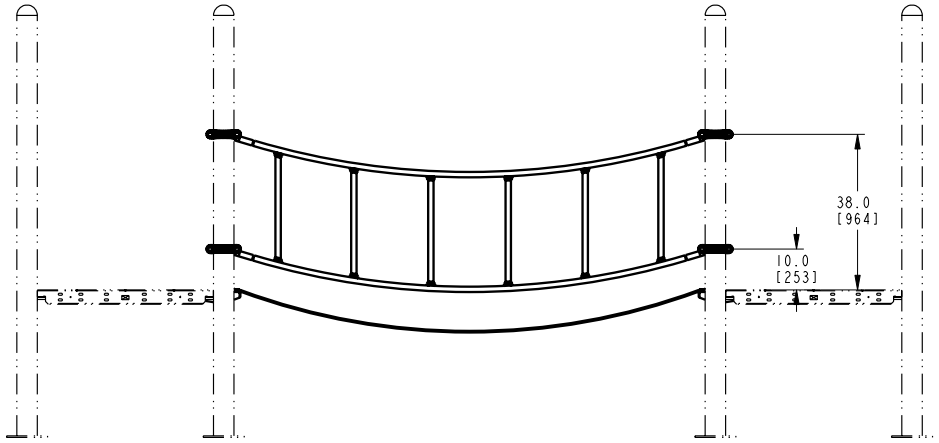
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

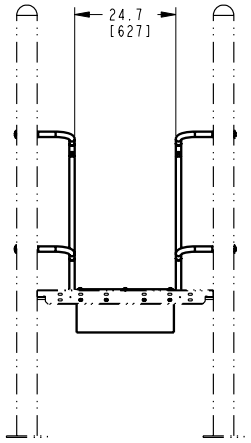
Top View

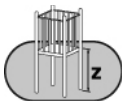




Footing Diagram



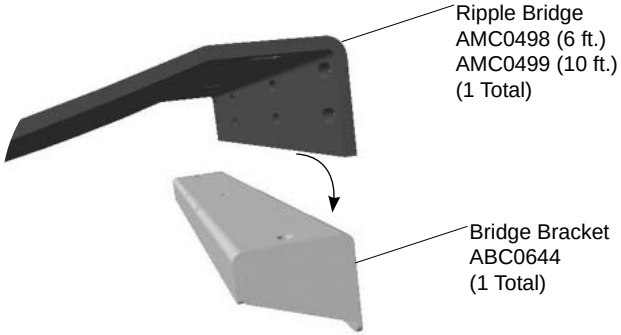




Equal to the height of the deck.

Elevation Views
PM8486

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 6.

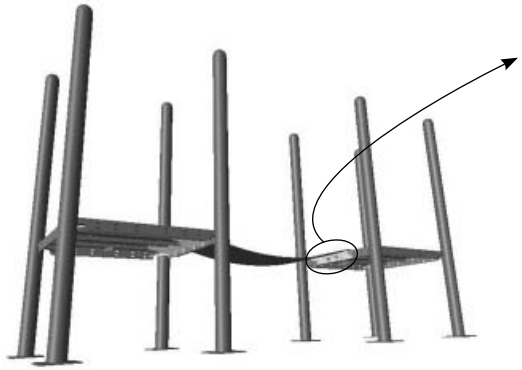


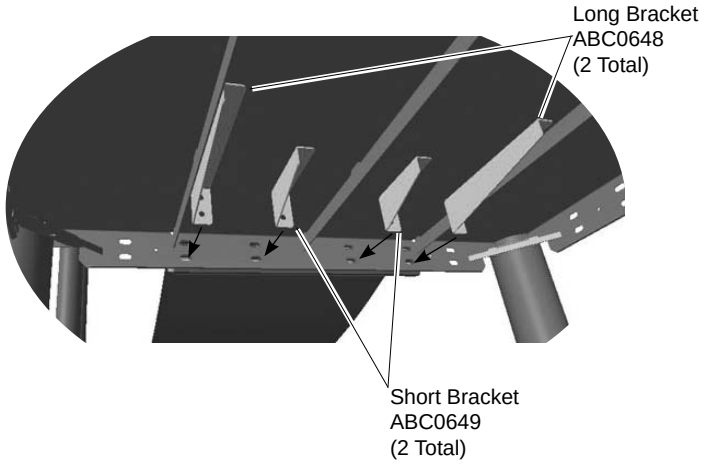
Detail A-1

Fold one end of the bridge down over the bracket and align the holes.

Detail A-2

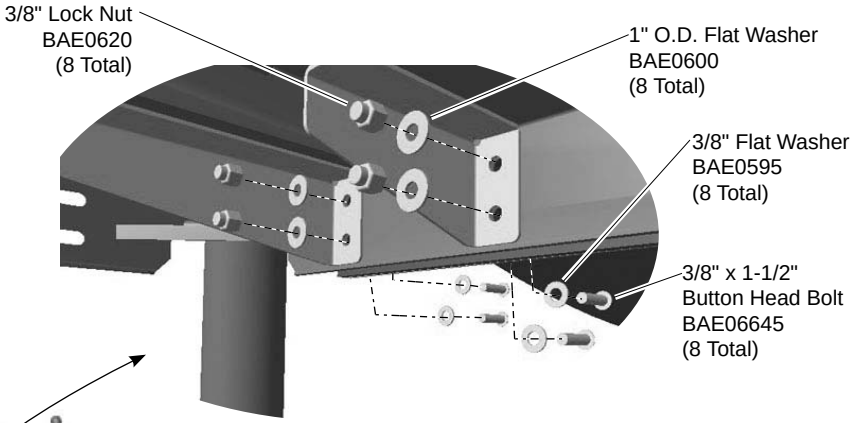
Position the bridge and bracket against a deck and align the holes.





Detail A-3

Position the long and short brackets underneath the deck and align the holes.



Detail A-4

Make the connections as shown.

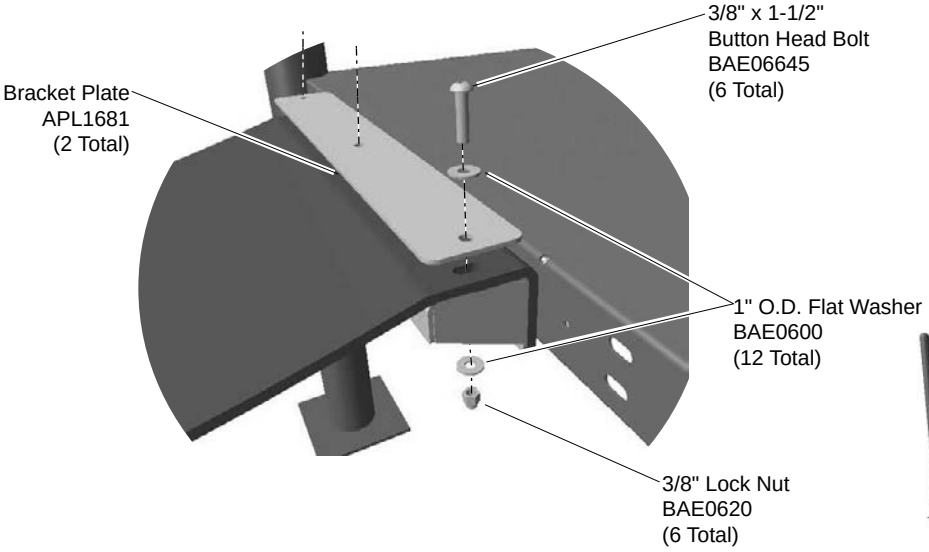
Details A-1, A-2, A-3, and A-4

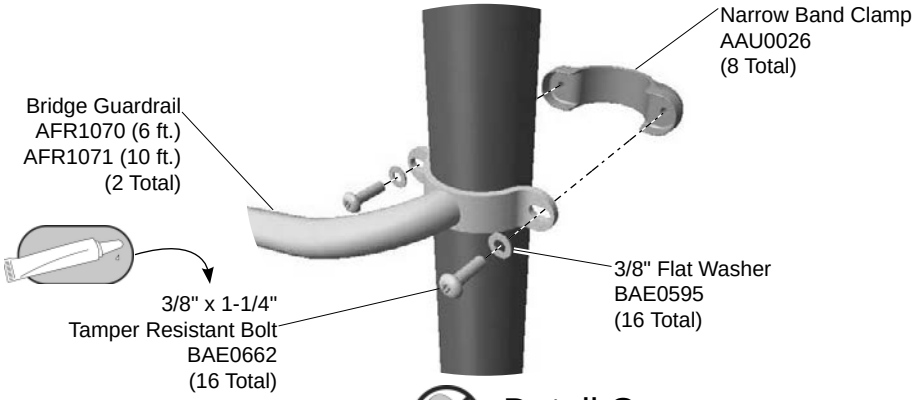
Step 3

Attach one end of the bridge to a deck.

Step 4

Repeat Step 3 to attach the other end of the Ripple Bridge to the other deck. Extra manpower may be required to make the connections.

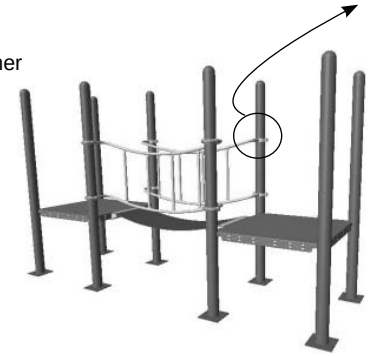




Detail C

Step 6

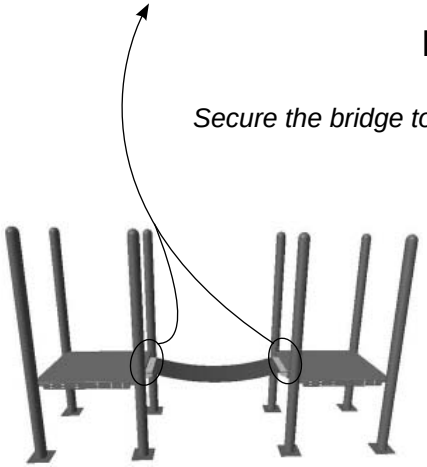
Attach the guardrails to the support posts.

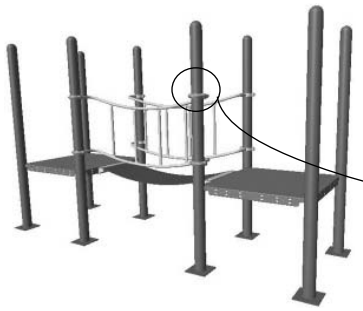


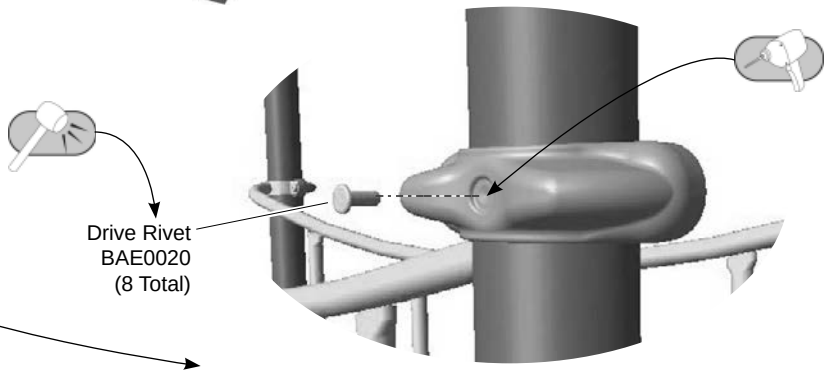
Detail B

Step 5

Secure the bridge to the top of the bridge bracket.







Detail D

Step 8

Secure the band clamps to the support posts.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.
Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach one end of the bridge to a deck. See **Details A-1 thru A-4**. Fold one end of the bridge down over a bracket, position against a deck with the long and short brackets placed underneath the deck, align the holes, and attach as shown.

Step 4: Repeat the procedure in **Step 3** to attach the other end of the bridge to the other deck. Additional manpower may be needed to stretch the bridge out to make those connections.

Step 5: Secure the bridge to the top of the bridge bracket. See **Detail B**. Place the bridge plates on top of each end of the bridge, align the holes in the plate with the holes in the bridge, and attach as shown.

Step 6: Attach the guardrails to the support posts. **See Detail C**. Position each guardrail to the inside of the support posts at the height indicated on the **Elevation View**. Place the band clamps around the support posts and against the bands on the guardrail, apply a drop of thread locking adhesive to the bolt threads, and attach as shown.

Final Details.
Step 7: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.
Torque Specifications:
Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Step 8: Install drive rivets. **See Detail D**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

Step 9: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the component at eye level.

PM8480 - 6 ft. (1829 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1070	GUARDRAIL - 6' MAT BRIDGE (PM)	2
AMC0498	6' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

PM8486 - 10 ft. (3048 mm) RIPPLE BRIDGE

PART NO.	DESCRIPTION	QTY.
AAU0026	CLAMP - 5" NARROW ALUMINUM BAND	8
ABC0644	BRACKET - MAT BRIDGE	2
ABC0648	BRACKET - 1.50" x 3.12" x 11.25"	4
ABC0649	BRACKET - 1.50" x 3.12" x 6.00"	4
AFR1071	GUARDRAIL - 10' MAT BRIDGE (PM)	2
AMC0499	10' RUBBER MAT	1
APL1681	PLATE - 23.75" x 3.50" x 8 GA	2
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	32
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	22
BAE0662	BOLT - 3/8"-16 x 1-1/4" TMPR RESISTANT w/TORX DRV	16
BAE06645	BOLT - 3/8"-16 x 1-1/2" BUTTON HEAD - SS	22
ALB0025	LABEL - AGE APPROPRIATE SHEET	1

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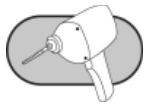
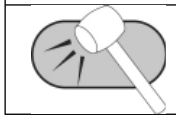
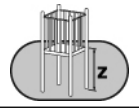
Assembly View

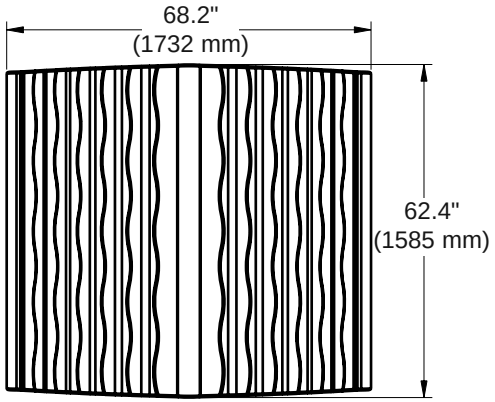
Installation Instructions

Playmakers®
Model PM9846
Cabana Roof

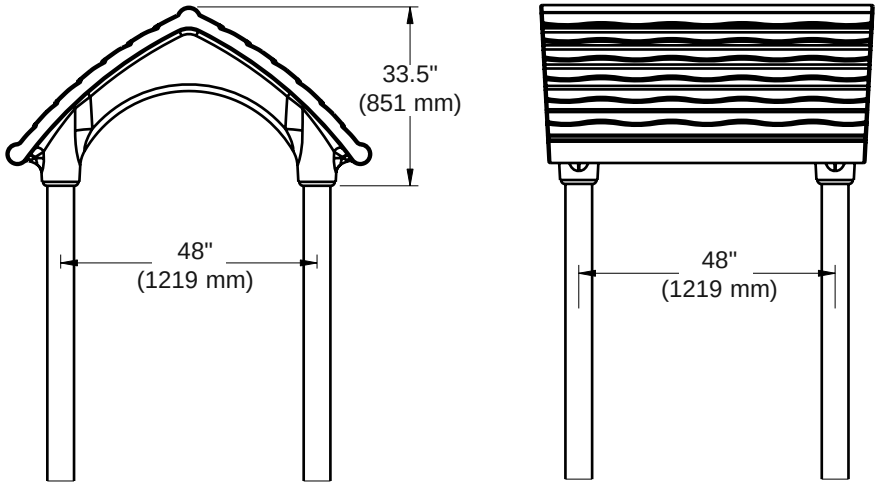
Installation Preparation

Recommended Crew: ..... Two (2) adults
Installation Time: ..... 1 man-hour
Weight: ..... 123 lbs. (55,9 kg)

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Top View

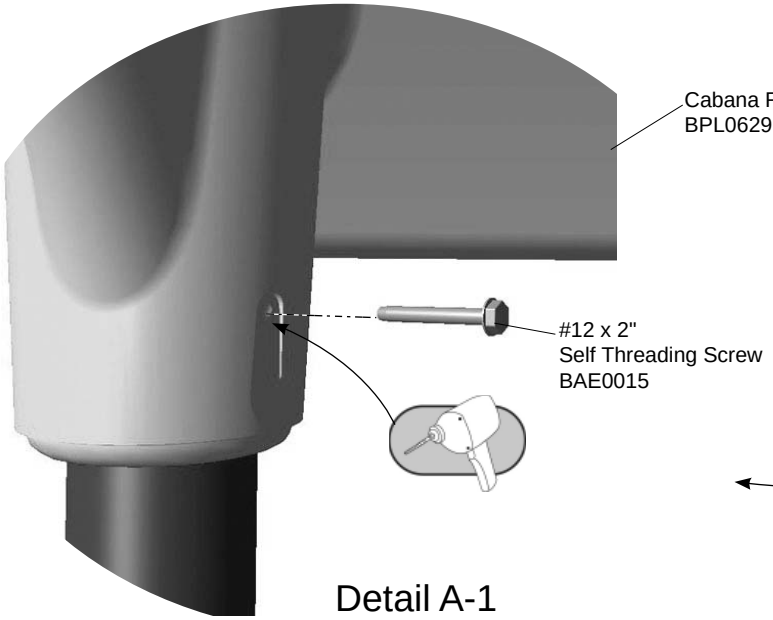


Elevation Views
ZZPM9846

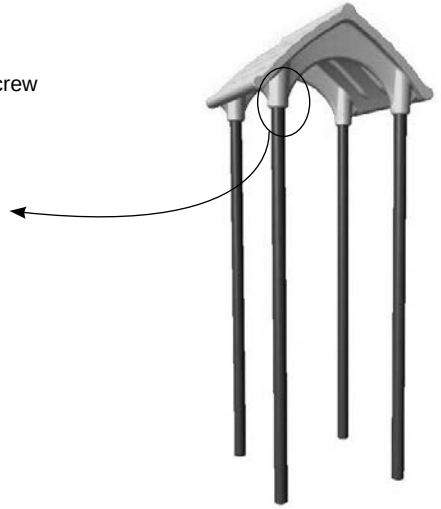
Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.

Detail A-1
Step 3



Detail A-1
Step 3



__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__**Step 2:** Separate and identify all components and hardware by referencing the detail drawings and packing list. Determine where cabana roof is to be placed.

Place the cabana roof on the posts.

__**Step 3**: Prepare to install the cabana roof. Select the cabana roof and (4) four #12 x 1-1/2" self-threading screws. There are (4) four connections. See **Detail A-1 and A-2**. Using adequate manpower, place the cabana roof onto the posts. Drill each screw location using a 3/16" drill bit. Thread a screw at each location through the roof and into the support post.

Note: Be sure that the ends of the posts are open and do not have post caps.

Final Details.

__**Step 4:** Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

PM9846 - CABANA ROOF

PART NO.	DESCRIPTION	QTY.
BAE0015	SCREW - SELF THREADING #12-14 x 1-1/2”	4
BPL0629	ROOF - CABANA (PLAYMAKER)	1

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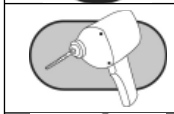
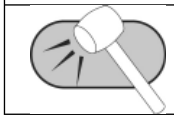
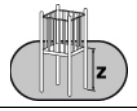
Installation Instructions

Playmakers®
Models PM9168, PM9170 and PM9177
Deck to Deck Accessible Tiered Platform
12 in. (305 mm), 24 in. (610 mm) and 36" (914 mm) Rise Height

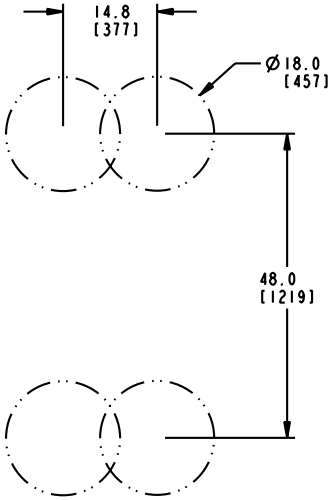
Assembly View *(representative model)*

Installation Preparation

Recommended Crew: ..... Two - Three (2-3) adults
Installation Time: ..... 2 man-hours
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

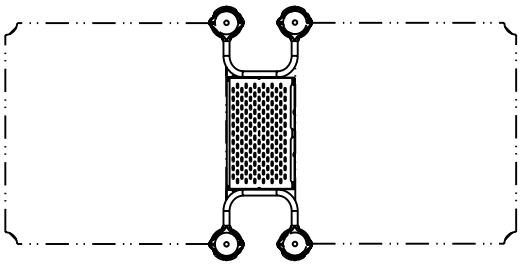
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

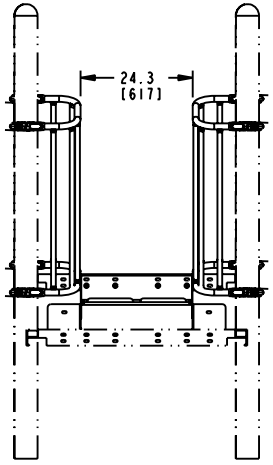
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

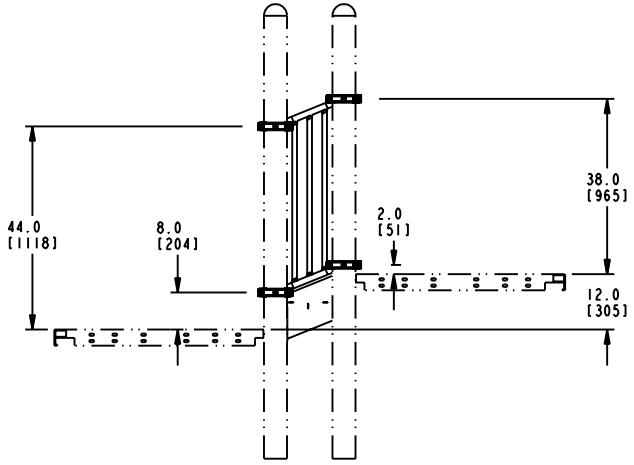


Footing Diagram

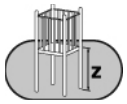
Top View





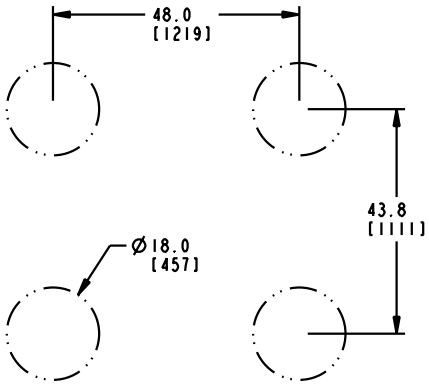


Elevation Views
PM9168



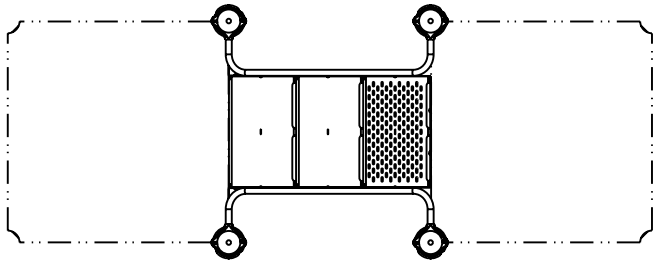
Height of the upper deck minus 6" (152 mm)

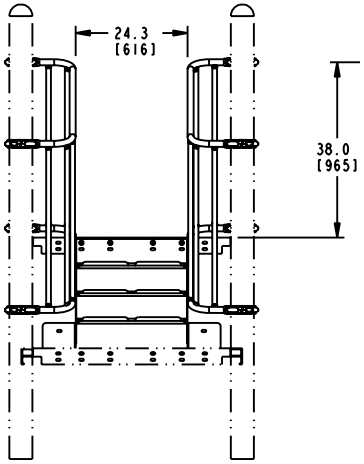
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

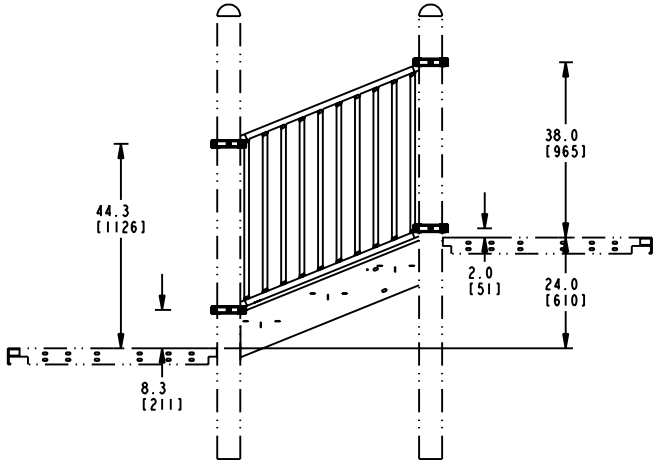


Footing Diagram

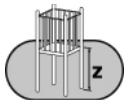
Top View





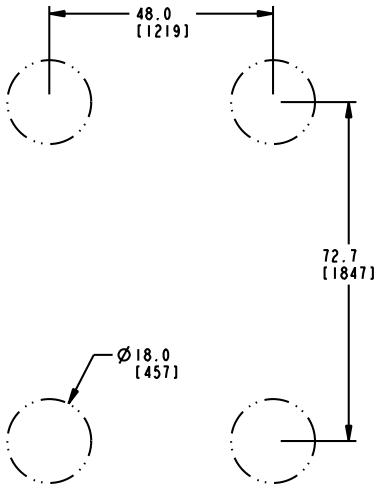


Elevation Views
PM9170



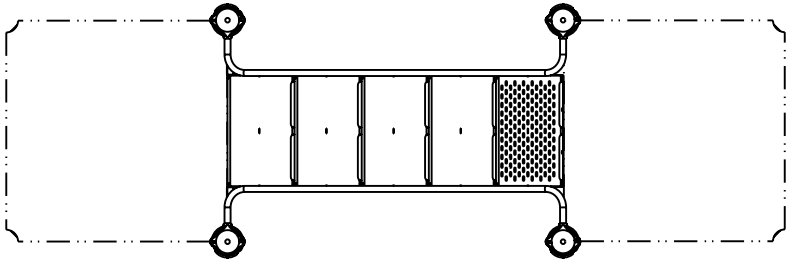
Height of the upper deck minus 6" (152 mm)

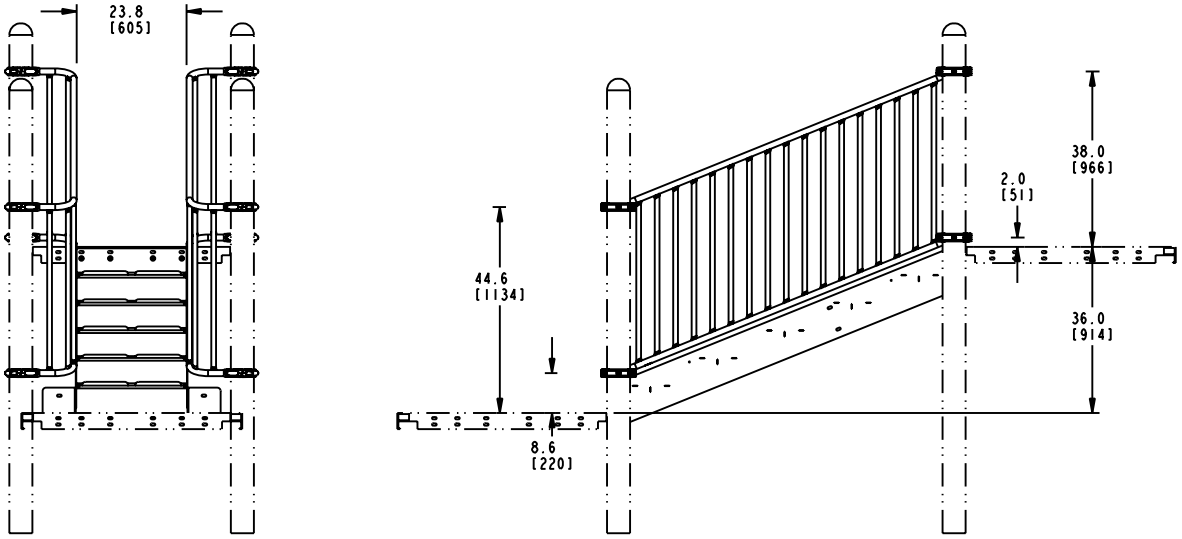
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]



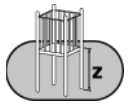
Footing Diagram

Top View





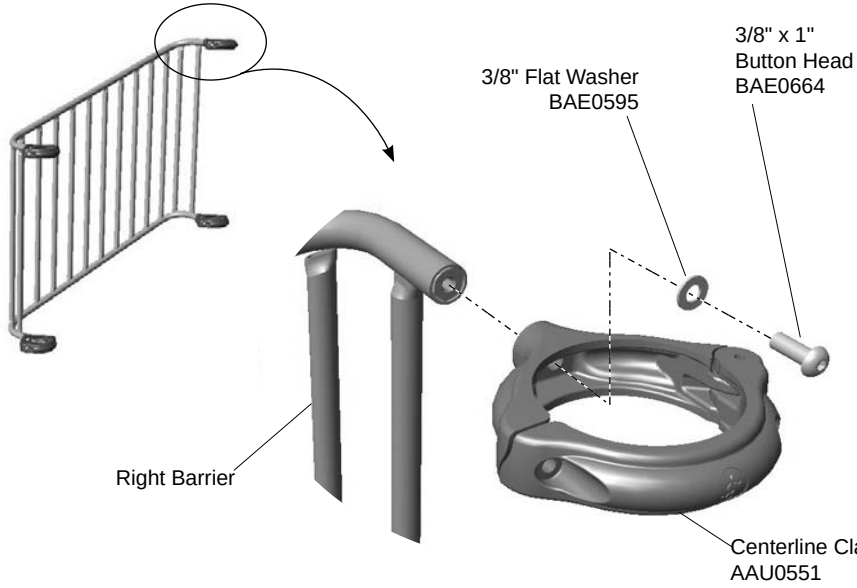
Elevation Views
PM9177

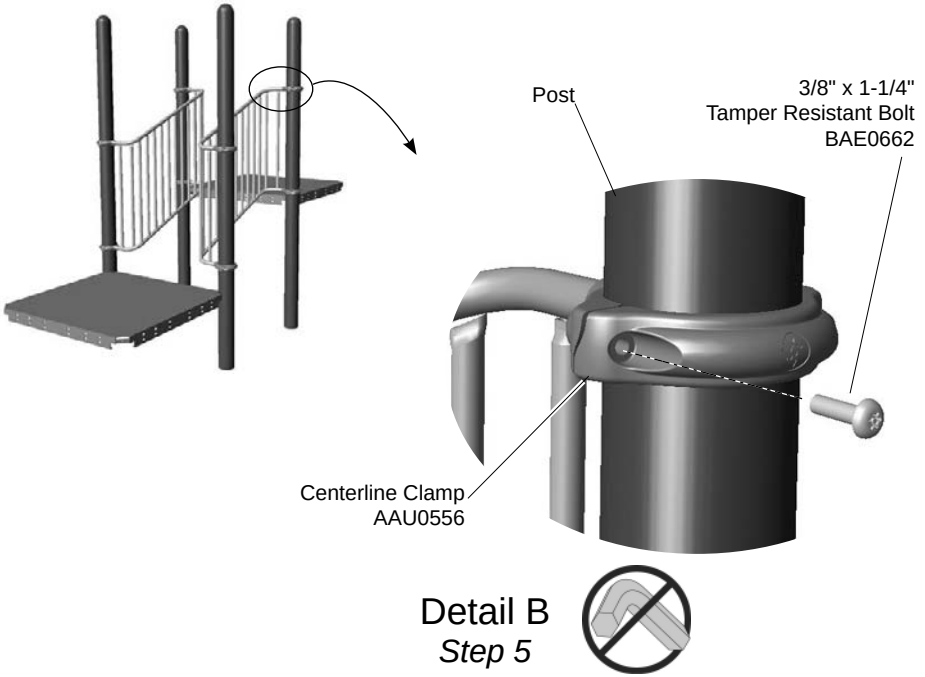


Height of the upper deck minus 6" (152 mm)

Installation Instructions

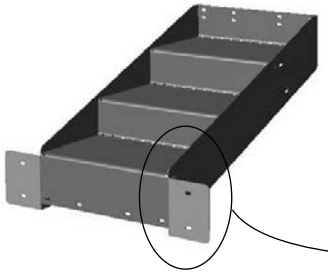
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 7.



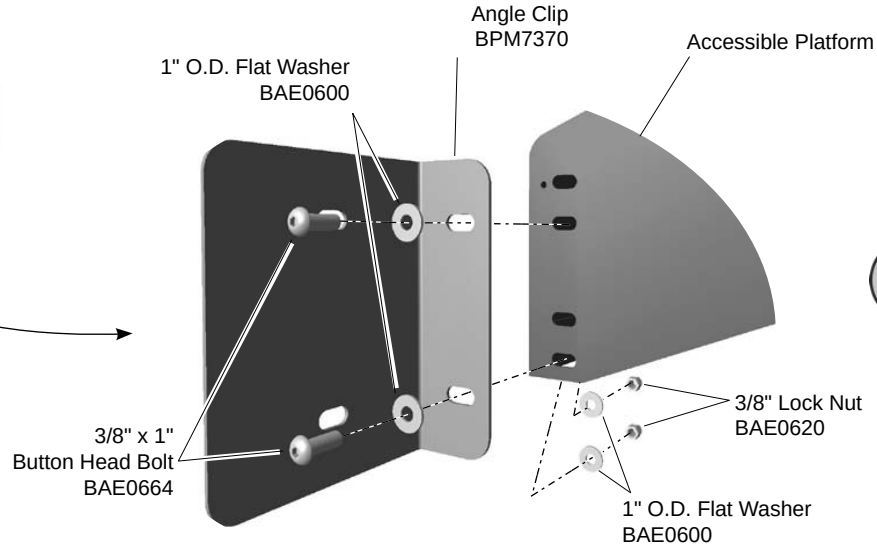


Detail B
Step 5

Detail A
Step 4

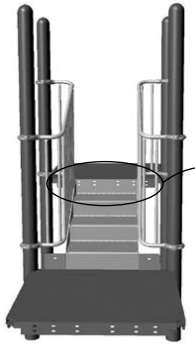


The front of angle clip should be even with the face of the platform

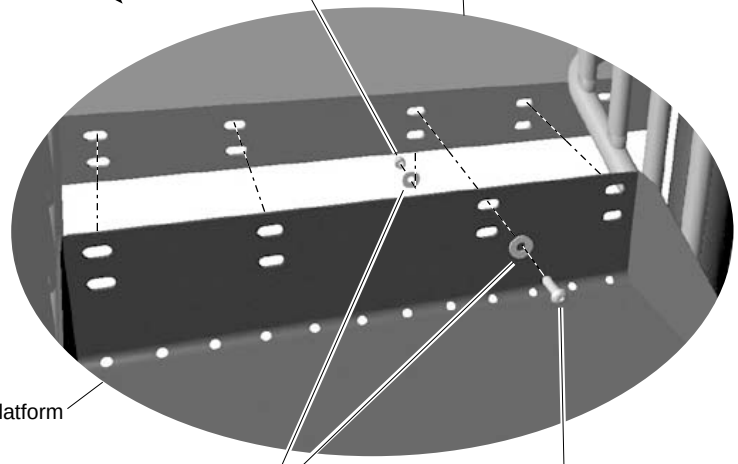


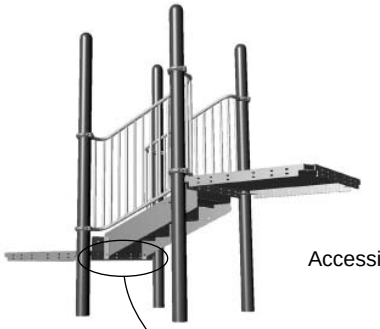
Detail C
Step 6

Model	Barriers (Right / Left)	Tiered Platform
ZZPM9168	AEN0487 / AEN0488	BPM0296
ZZPM9170	AEN0489 / AEN0490	BPM0298
ZZPM9177	AEN0491 / AEN0492	BPM0299

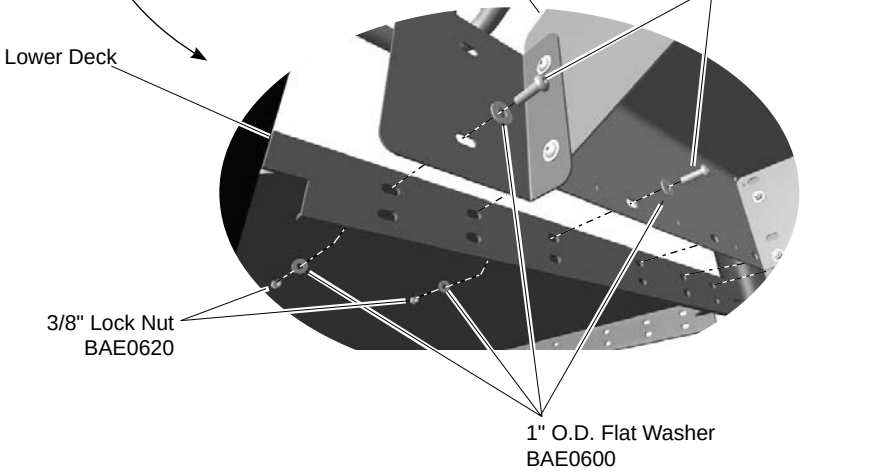


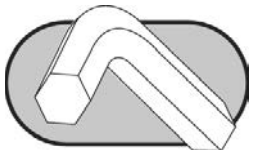
Detail D
Step 7



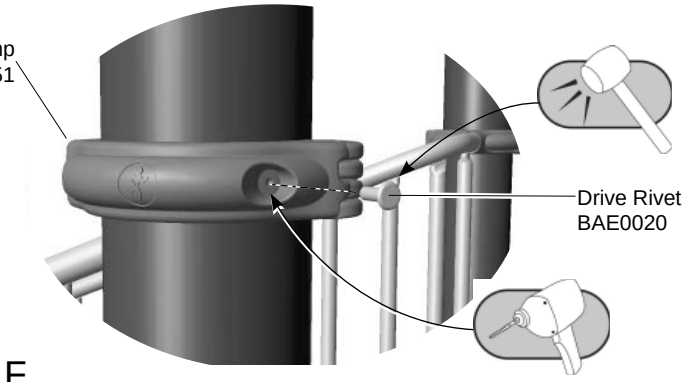


Detail E
Step 8





Step 9



Detail F
Step 10

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Determine location of the platform by referring to the master layout drawing.

Step 4: Attach the clamps to the barriers. See **Detail A**. Select both barriers, the clamps, and the appropriate hardware. Attach a clamp to each of the ends of the barrier rails. There are (4) four clamp connections per barrier. Turn the clamps so that the hinges all face the same direction.

Step 5: Attach the barriers to the posts. See **Detail B**. Select both barriers and the tamper resistant bolts. Place the barriers between the posts, and attach as shown.

Step 6: Attach the angle clips to the accessible platform. See **Detail C**. Select both angle clips, the tiered platform, and the appropriate hardware. Place the angle clips against the lower side of the platform with the front faces aligned. Attach as shown.

Step 7: Attach the tiered platform to the upper deck. See **Detail D**. Select the tiered platform and the appropriate hardware. A brace will be necessary to support the weight until the lower connections are made. Place the platform between the decks and align the upper riser with the upper holes in the deck. Attach as shown. The upper edge of the step should not protrude above the edge of the deck.

Step 8: Attach the tiered platform and angle clips to the lower deck. See **Detail E**. Select the appropriate hardware. Attach as shown. There are (6) six connections.

Final Details.

Step 9: Plumb and level the component. Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts & Nuts - Snug tighten and tighten an additional one-half turn.

Step 10: Rivet the clamps to the posts. See **Detail F.** After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

PM9168 - 12" (305 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0487	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (RT)	1
AEN0488	BARRIER - 16-3/32" x 43-9/32" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0296	STAIR - 12" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9177 - 36" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0491	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (RT)	1
AEN0492	BARRIER - 74-1/32" x 66-11/16" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0299	STAIR - 36" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

PM9170 - 24" (610 mm) DECK TO DECK ACCESSIBLE TIERED PLATFORM

PART NO.	DESCRIPTION	QTY.
AAU0551	CLAMP - 5" CENTERLINE DIE CAST	8
AEN0489	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (RT)	1
AEN0490	BARRIER - 45-1/16" x 55" x 8-3/8" PROTECTIVE (LT)	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	8
BAE0595	WASHER - 3/8" SAE FLAT	8
BAE0600	WASHER - 1" O.D. FLAT	28
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	14
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMPER RESIST w/TORX DRIVE	8
BAE0664	BOLT - 3/8"-16 x 1" BUTTON HEAD - SS	22
BPM0298	STAIR - 24" ACCESSIBLE	1
BPM7370	FAB METAL - 2.63" x 8.63" w/4 SLOTS	2

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Installation Instructions

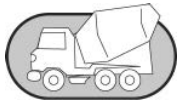
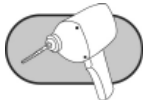
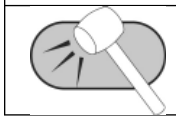
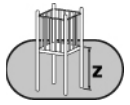
Playworld Systems®
Models XX0260, XX0261, & XX0324
Belt Seat with Swing Chain

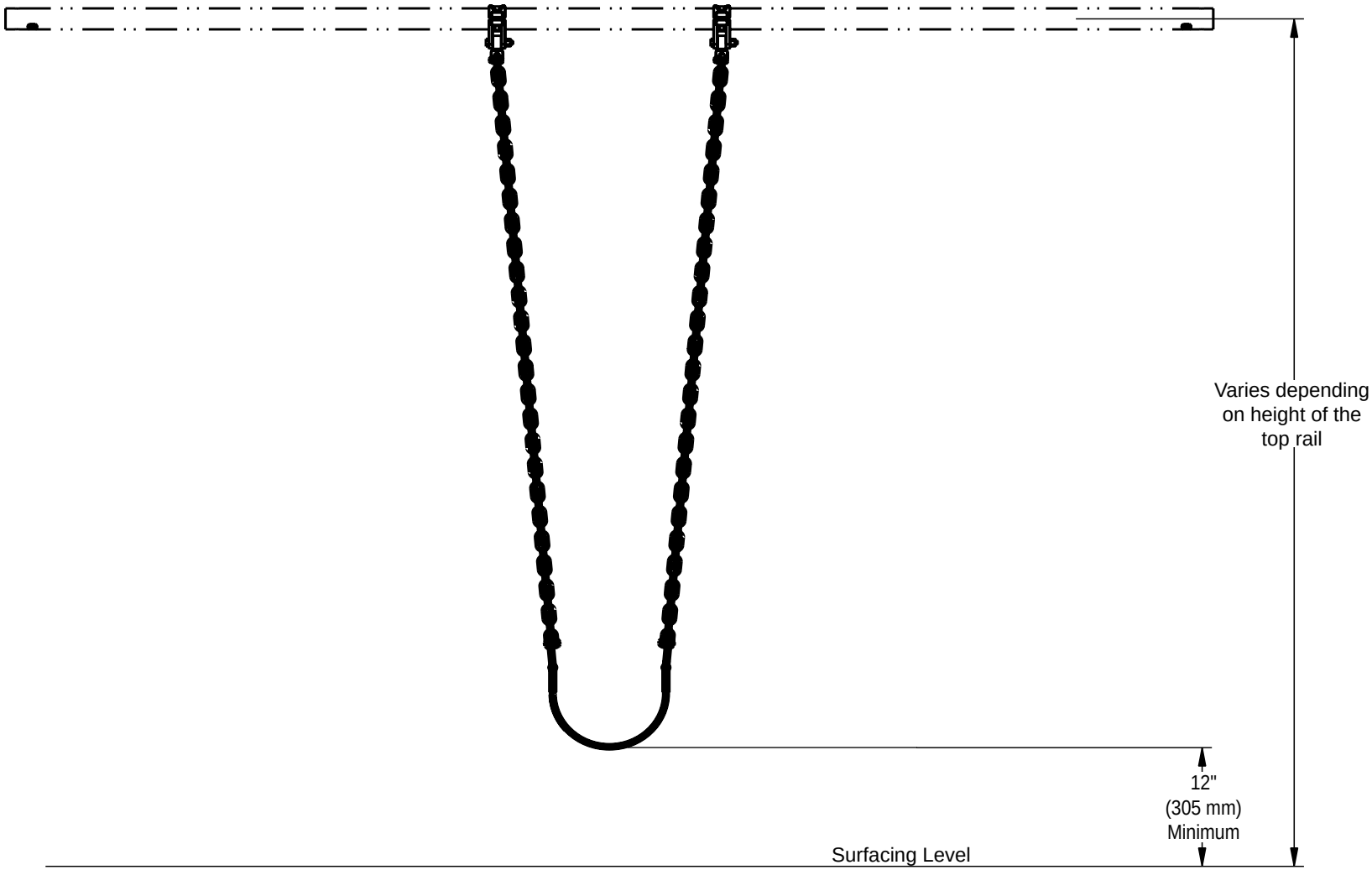
Assembly View

Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Preparation

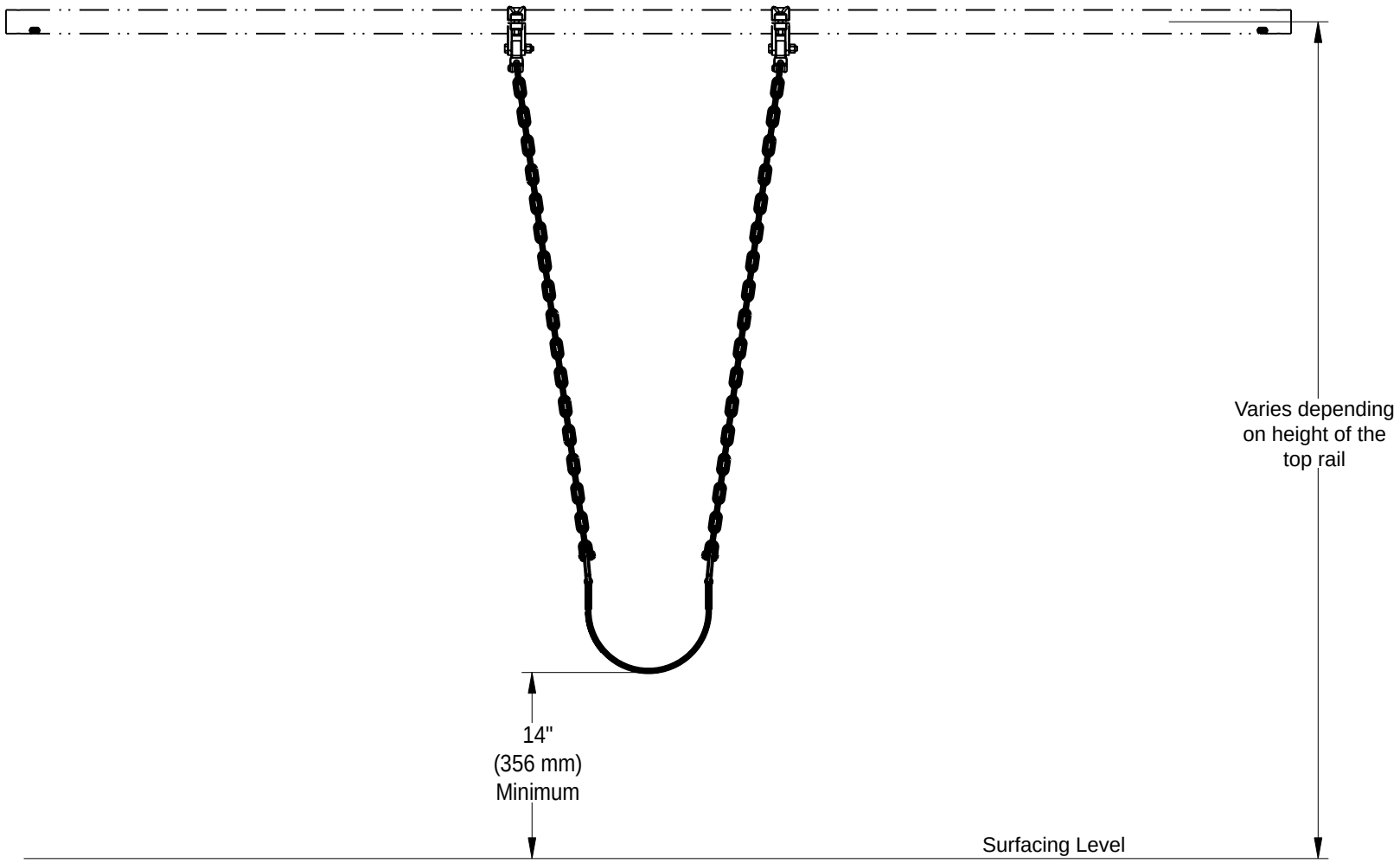
Recommended Crew: ..... One (1) adult
Installation Time: ..... 0.25 hour
Use Zone:..... Refer to the swing frame instructions
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully TIghten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height



Elevation View
(ASTM/CSA)

Model Number	Critical Fall Height - ASTM/CSA	Top Rail Height
ZZXX0324	7 ft. (2134 mm)	7 ft. (2134 mm)
ZZXX0260	8 ft. (2440 mm)	8 ft. (2440 mm)
ZZXX0261	10 ft. (3050 mm)	10 ft. (3050 mm)

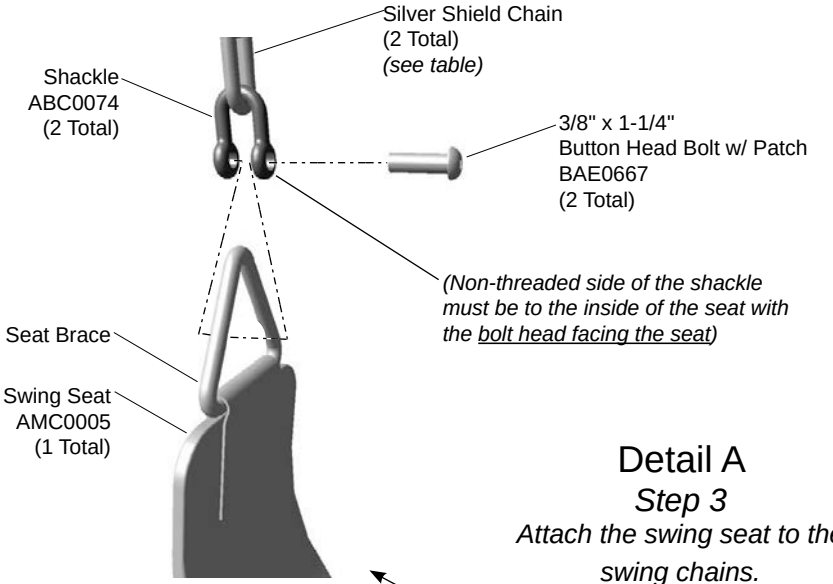


Elevation View
(EN)

Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0324	1220 mm	7 ft. (2134 mm)
ZZXX0260	1370 mm	8 ft. (2440 mm)
ZZXX0261	1675 mm	10 ft. (3050 mm)

Installation Instructions

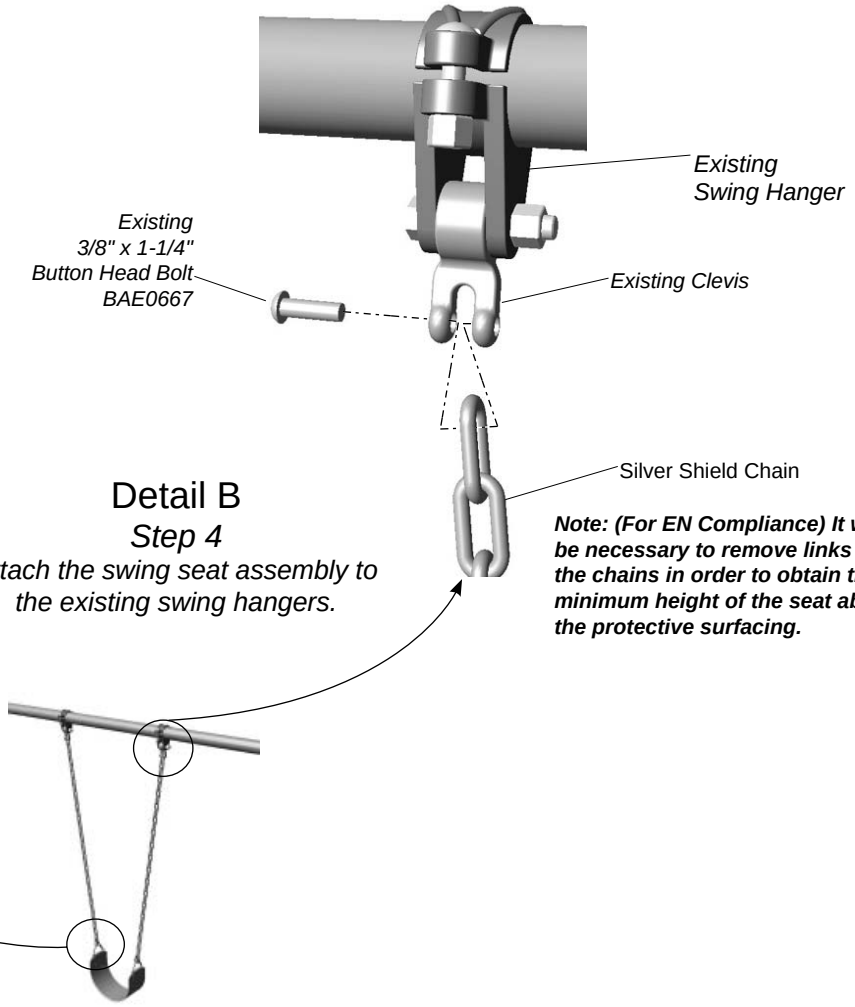
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 5.



Detail A

Step 3

Attach the swing seat to the swing chains.



Detail B

Step 4

Attach the swing seat assembly to the existing swing hangers.

Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0324	ACN0090	7 ft. (2134 mm)
ZZXX0260	ACN0091	8 ft. (2440 mm)
ZZXX0261	ACN0092	10 ft. (3050 mm)

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.
Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Attach the swing seat to the swing chains. See **Detail A**. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Step 4: Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown. Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.
Note: (For EN Compliance) It will be necessary to remove links from the chains in order to obtain the minimum height of the seat above the protective surfacing.

Final Details.
Step 5: Fully tighten all fasteners according to tightening torque specifications.
Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0324 - BELT SEAT WITH SWING CHAIN
- 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNCTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0090	CHAIN - 53.71" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0260 - BELT SEAT WITH SWING CHAIN
- 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0091	CHAIN - 65.11" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

ZZXX0261 - BELT SEAT WITH SWING CHAIN
- 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0092	CHAIN - 89.01" 4/0 SILVER SHIELD	2
AMC0005	SEAT - SLASH PROOF BELT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0922	TOOL - TT 45 L WRENCH	1

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Equipment Maintenance
Playworld Systems®
Models XX0324, XX0260 & XX0261
Belt Seat with Swing Chain

Swing Seat
- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners
- Inspect for loose fasteners.
  Tightening torque specifications are:
  Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish
- Inspect metal parts for finish damage.
  To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

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Inspection Form

Preventive Maintenance . . . for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Inspection Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature:_____ Date:___ /___ /___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature:_____ Date:___ /___ /___

PLAYWORLD SYSTEMS®

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Installation Instructions

Playworld Systems®

Models XX0265, XX0266, & XX0325

Infant Swing Seat with Swing Chain

Assembly View

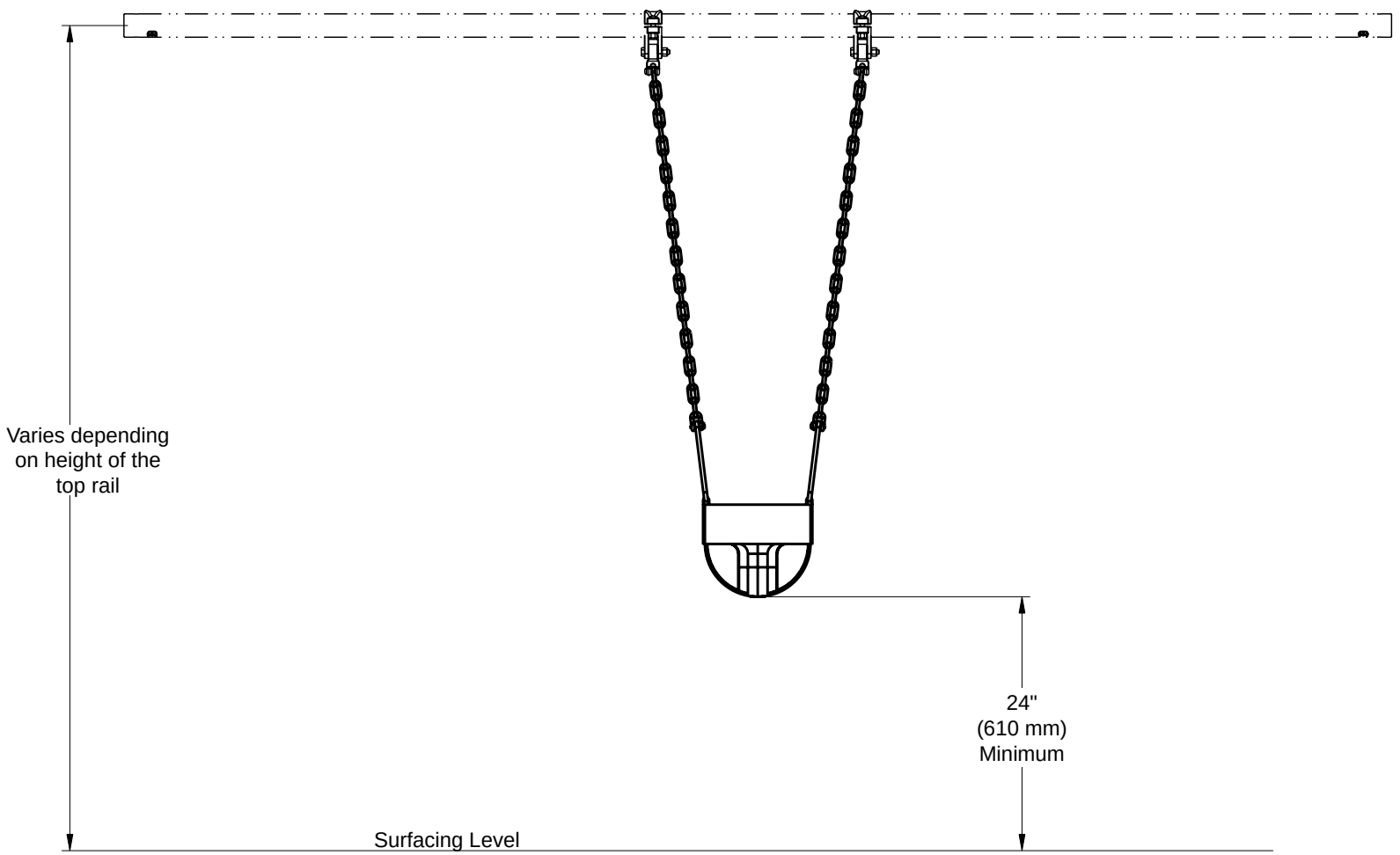
Refer to the Elevation View for the specific Critical Fall Height for the component.

Installation Preparation

Recommended Crew: ..... One (1) adult
Installation Time: ..... 0.25 hour
Weight: ..... See table below
Use Zone: ..... Refer to the swing frame instructions
User Group: ..... Ages 2 - 5 years

Model Number	Weight	Top Rail Height
ZZXX0325	12.8 Lbs. (5,8 Kilos)	7 ft. (2134 mm)
ZZXX0265	11 Lbs. (5 Kilos)	8 ft. (2440 mm)
ZZXX0266	12.6 Lbs. (5,7 Kilos)	10 ft. (3050 mm)

ICON KEY		
	Fully Tighten Hardware	

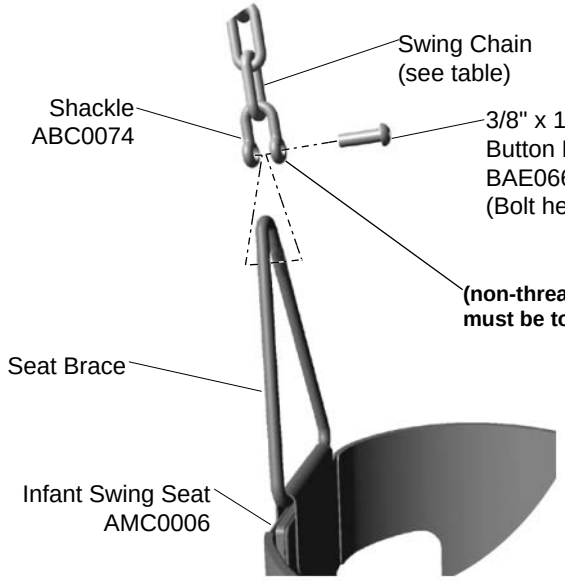


Elevation View

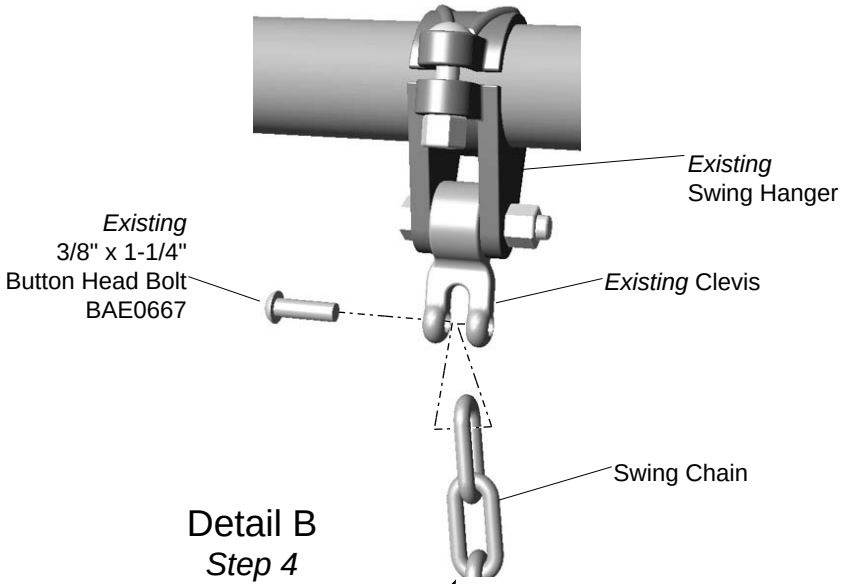
Model Number	Critical Fall Height - EN	Top Rail Height
ZZXX0325	1345 mm	7 ft. (2134 mm)
ZZXX0265	1525 mm	8 ft. (2440 mm)
ZZXX0266	1830 mm	10 ft. (3050 mm)

Installation Instructions

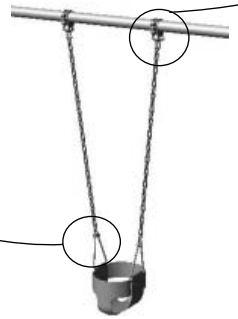
Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 4.



Detail A
Step 3



Detail B
Step 4



Reference A/B

Step 5

Model Number	Swing Chain Part No.	Top Rail Height
ZZXX0325	ACN0050	7 ft. (2134 mm)
ZZXX0265	ACN0040	8 ft. (2440 mm)
ZZXX0266	ACN0041	10 ft. (3050 mm)

__**Notes Before You Begin:** Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.

__**Step 1:** Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

__**Step 2:** Separate and identify all components and hardware.

Attach the swing seat to the swing chains.

__**Step 3:** Attach the swing seat to the swing chains. See **Detail A**. Select the swing seat, and (2) two of the following: bolts, chains, and shackles. Attach the seats to the chains as shown. Ensure that the non-threaded side of the shackle is to the inside of the seat.

Attach the swing seat assembly to the existing swing hangers.

__**Step 4:** Attach the swing seat assembly to the existing swing hangers. See **Detail B**. Remove the 1-1/4" bolt from the swing hanger clevis with the included hex key wrench. Select the swing seat assembly and place last link of chain between the open end of the clevis and attach as shown.
Ensure that the bolt is inserted through the non-threaded side of the clevis and threaded into the opposite side.
Important Note: The vertical distance between an occupied seat and the protective surface shall be no less than 24" (610 mm). Remove any excess chain.

Final Details.

__**Step 5:** Fully tighten all fasteners according to tightening torque specifications.
Torque specifications - Nuts and Bolts: Snug tighten and tighten an additional one-half turn.

ZZXX0325 - INFANT SWING SEAT WITH SWING CHAIN
- 7 ft. (2134 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CNECTR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0050	CHAIN - 36" 4/0 Swing 2	
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0265 - INFANT SWING SEAT WITH SWING CHAIN
- 8 ft. (2438 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0040	CHAIN - 47" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

ZZXX0266 - INFANT SWING SEAT WITH SWING CHAIN
- 10 ft. (3048 mm) TOP RAIL HEIGHT

PART NO.	DESCRIPTION	QTY.
ABC0074	CONNECTOR - 5/16" CHAIN SHACKLE w/3/8"-16 THREAD	2
ACN0041	CHAIN - 72" 4/0 Swing	2
AMC0006	SEAT - EXTRA TOUGH TOT	1
BAE0667	BOLT - 3/8"-16 x 1-1/4" BUTTON HEAD w/NYLON PATCH	2
BAE0902	TOOL - 7/32" SHORT HEX KEY WRENCH	1

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intentionally left blank.

Swing Seat
- Inspect swing seat for sharp points, breaks, cracks or jagged edges. If any damage is detected and is determined to be unsafe, barricade equipment to prevent use until repair is completed.

Fasteners
- Inspect for loose fasteners.
  Tightening torque specifications are:
  Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish
- Inspect metal parts for finish damage.
  To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Surfacing
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance
Playworld Systems®
Models XX0265, XX0266, & XX0325
Infant Swing Seat with Swing Chain

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Inspection Form

Preventive Maintenance . . . for Safety's Sake!

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

INSPECTION CHECKLIST

	Frequency	Inspection Code	Inspection Date	Date Repairs Completed
Inspect chain and swing seat for damage.	Medium			
Inspect surfacing to insure proper depth and distribution.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			

Inspection Codes

P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature:_____ Date:___ /___ /___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature:_____ Date:___ /___ /___

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

• For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

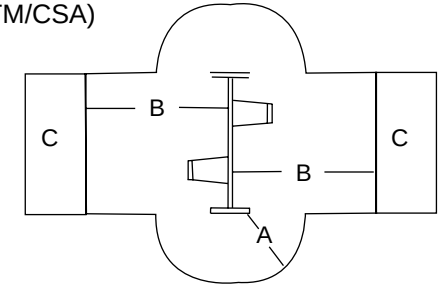
• For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

A = Side Use Zone
72 in. (1829 mm)

B = End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail

C = No-encroachment Zone
72 in. (1829 mm)



• The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

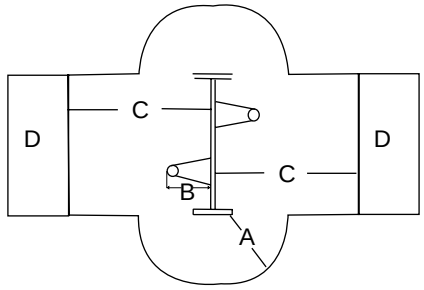
Infant Seat Swing Zones

A = Side Use Zone
72 in. (1829 mm)

B = Distance from Pivot Point
to Swing Seat Surface

C = End Use Zone: B x 2
Both Sides of Top Rail

D = No-encroachment Zone
72 in. (1829 mm)



(EN)

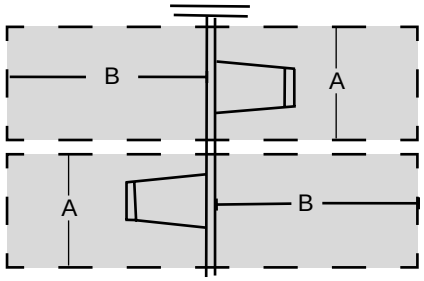
• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = (0.867 x Distance from pivot point to seat) + *either* 1750 mm if unitary surfacing *or* 2250 mm if loose-fill surfacing is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

A = Width of the corridor centered on the swing seat
1750 mm

B = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



• Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

• Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

• After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

• Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

• Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**

• Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

• **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

• The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

• Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must to be given to moving parts and other components that can be expected to wear. Inspections must to be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

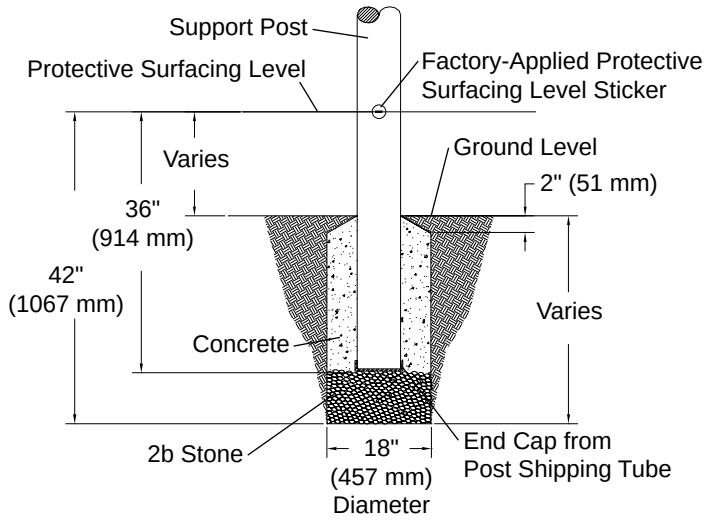
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

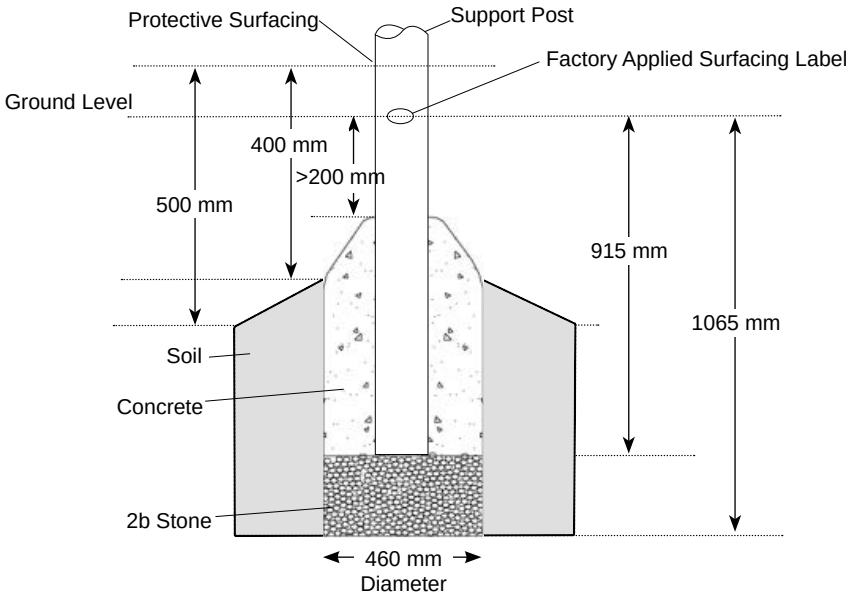
• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
  Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
  For example:
  - If local soil is loose or unstable, a larger footing may be required.
  - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

PLAYWORLD SYSTEMS®

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Installation Instructions

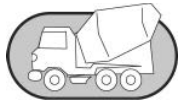
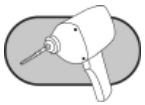
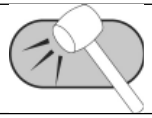
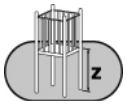
Playworld Systems® Model XX0287
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Assembly View *(representative model)*

Installation Preparation

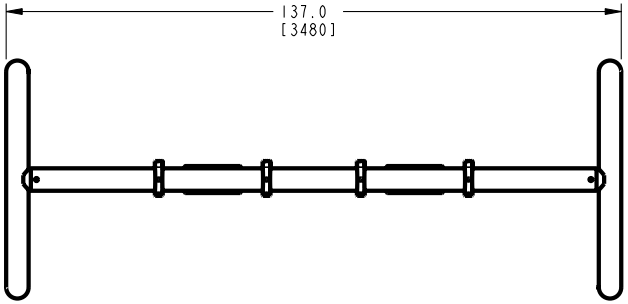
Recommended Crew: ..... Four (4) adults
Installation Time: ..... 3 man-hours
Weight: ..... *214 lbs. (97,3 kg)
Concrete Required: ..... 0.48 cubic yard (0,37 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

****Weights are approximate for determining manpower.***

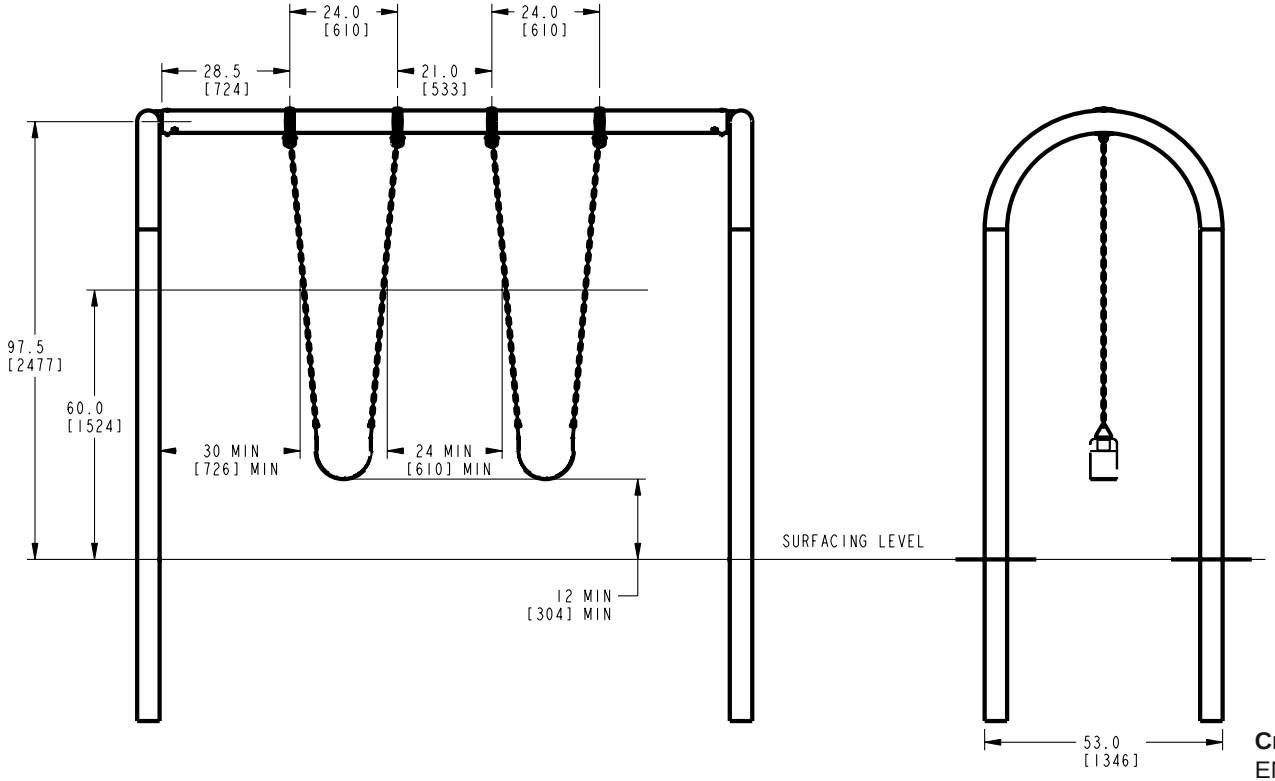
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

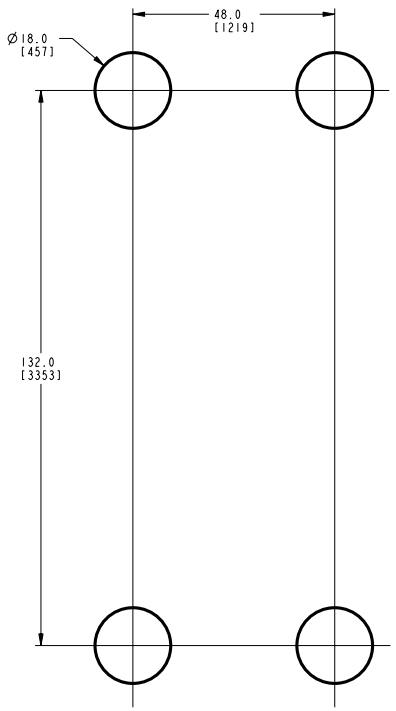
Top View



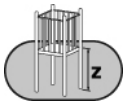
Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.



Elevation Views



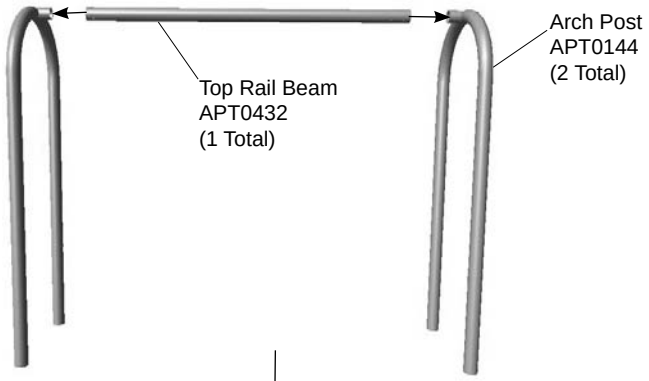
Footing Diagram

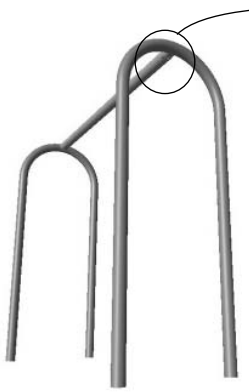


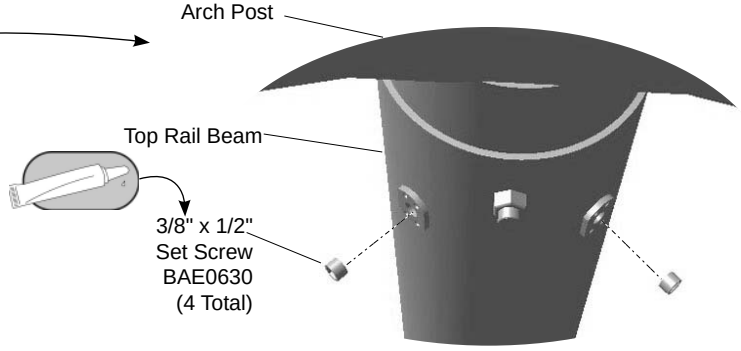
Critical Fall Height
EN: belt seat - 1390 mm (mounted as shown)
tot seat - 1545 mm (with seat at 610 above surfacing)

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.





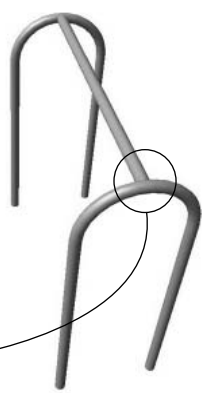


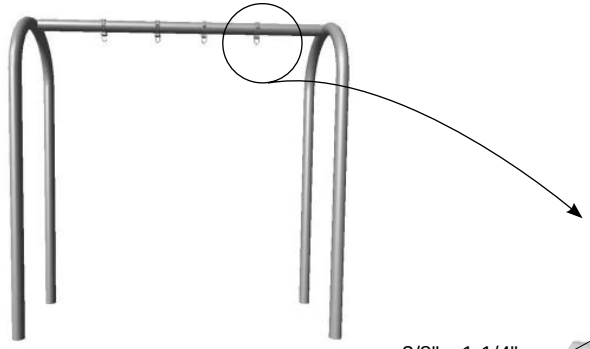
Underneath View

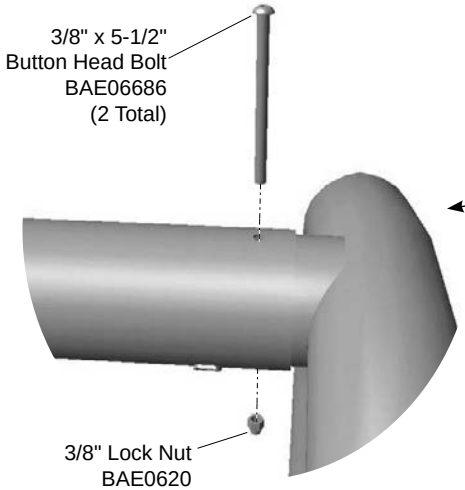
Detail B

Step 5

Secure the top rail to the arch posts.







Detail A

Step 4

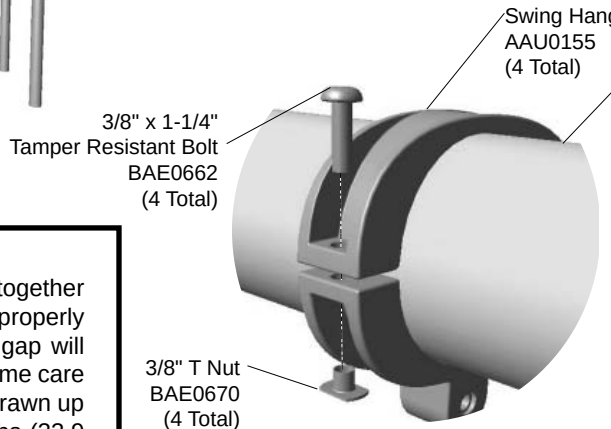
Attach the top rail to the arch posts.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

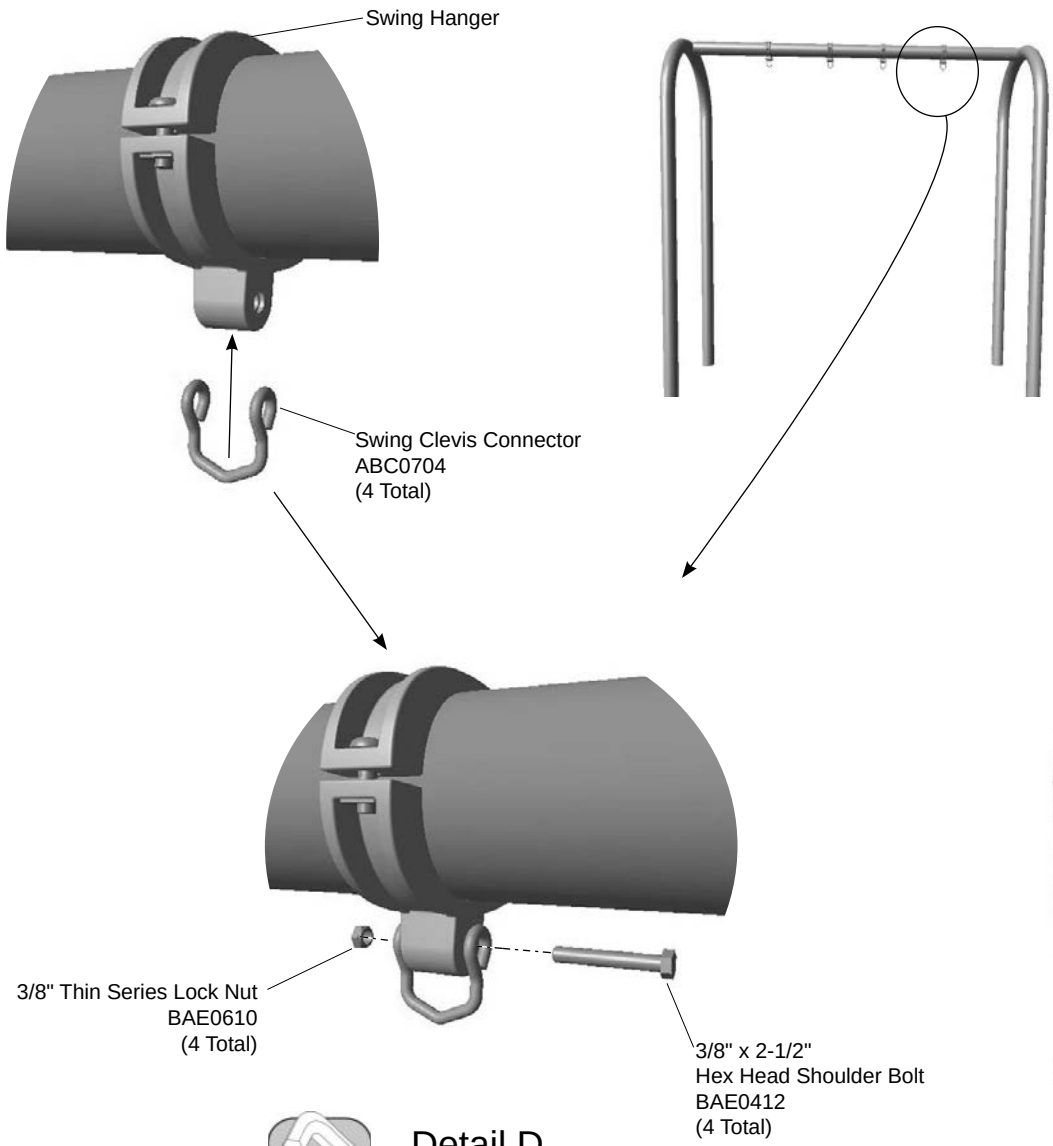


When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C

Step 8

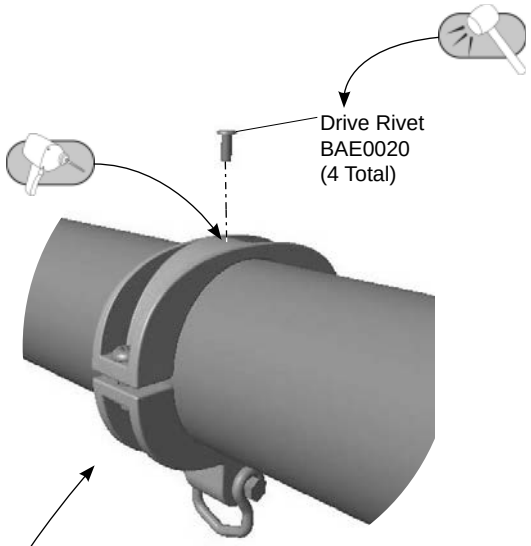
Attach swing hangers to the top rail.



Detail D

Step 9

Attach each clevis to a swing hanger.



Detail E

Step 12

Secure the swing hangers to the top rail.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.
Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Assemble the swing frame.
Step 4: Attach the top rail to the arch support posts. See **Detail A**. Slide each end of the top rail into a post stub and align holes. Insert each bolt through the *top* hole in the post stub, through the top rail, out the bottom side of the post stub, and thread into a lock nut.

Step 5: Secure the top rail to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.
Torque Specifications:
Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.
Step 6: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 7: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 8**.

Attach swing hangers to the top rail.
Step 8: Attach swing hangers to the top rail. See **Detail C**. Close the swing hangers around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp**.
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 9: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.
Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.
Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details
Step 10: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 11: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.
Torque Specifications:
Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Step 12: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.
Note: This step should be executed after structure has been assembled and properly footed.

Step 13: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0287 - 5 in. O.D. 2-UNIT ALUMINUM ARCH SWING
8 ft. (2438 mm) TOP RAIL

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0144	POST - 5" O.D. x 133 1/2" ALUMINUM ARCH SUPPORT	2
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - AGE APPROPRIATE	1

PLAYWORLD SYSTEMS®
The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.

- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.

- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.

- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.

  - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.

  - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.

  - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.

  - Clean dried concrete off of components and any other affected surface.

  - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.

  - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.

  - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".

  - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

  - Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.

Swing Hangers
- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners
- Inspect for loose fasteners.
  Tightening torque specifications are:
  Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
  Set Screws: Snug tighten and tighten an additional full turn.
- Inspect drive rivets to insure they are intact and secure.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds
- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish
- Inspect metal parts for finish damage.
  To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings
- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems® Model XX0287
5 in. (127 mm) O.D. 2-Unit Aluminum Arch Swing
8 ft. (2438 mm) Top Rail

Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance
. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Inspection Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature:_____ Date:___ /___ /___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature:_____ Date:___ /___ /___

Important ! Please Read Completely Before Beginning Installation. According to a report published by the U. S. Consumer Product Safety Commission (C.P.S.C.) 72% of all playground injuries result from accidental falls. With this in mind, this equipment is designed to fill the need for safe yet challenging play. In conjunction with design efforts to reduce the possibilities of injuries, this equipment **must** be installed "Step by Step" per our installation instructions. As a new owner you are responsible for the correct installation, safe use, and maintenance of your equipment.

Installation Guidelines

• Identify all parts and thoroughly read the assembly instructions before beginning construction.

• Refer to your playground equipment plan and footing diagram to assure the equipment purchased will fit into your selected site area. The use and no-encroachment zones around the play equipment shall be obstacle-free areas designated for unrestricted circulation.

(ASTM / CSA)

• For belt and rigid swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the height measured from the pivot point above the surfacing material measured from a point directly beneath the pivot on the supporting structure. The use zone on the sides of the swing should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

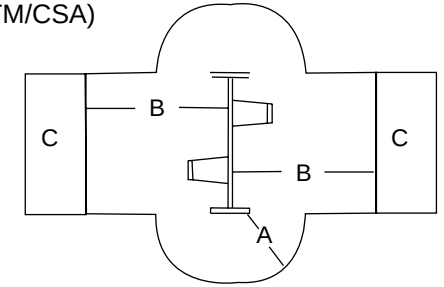
• For enclosed infant swing seats, the use zone for swing equipment should extend to the front and rear of a single axis swing a minimum distance of twice the measurement from the pivot point to the swing seat surface measured from a point directly beneath the pivot on the supporting structure. The use zone on the ends of the swing (support structure) should extend a minimum of 72 inches (1829 mm). A no-encroachment zone is also required for installations in areas overseen by the Canadian Standards Association (C.S.A.). In addition to the use zone measurement on both sides of the top rail, this zone will extend an additional 72 inches (1829 mm) and may **not** be overlapped by the use or no-encroachment zones of adjacent play equipment. See diagram.

Belt/Rigid Seat Swing Zones (ASTM/CSA)

A = Side Use Zone
72 in. (1829 mm)

B = End Use Zone
Height of Pivot Point
from Surfacing x 2
Both Sides of Top Rail

C = No-encroachment Zone
72 in. (1829 mm)



• The use zone on either end of the swing (72 inches [1829 mm]) may be overlapped by the use zone on either end of the another swing (72 inches [1829 mm]). Swing zones on either side of the top rail may **not** be overlapped by the use zones of other play equipment.

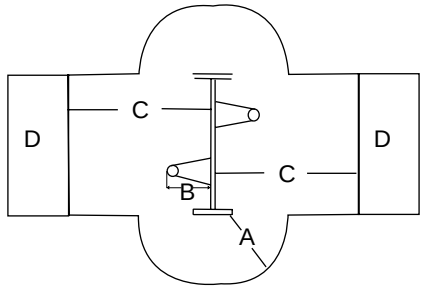
Infant Seat Swing Zones

A = Side Use Zone
72 in. (1829 mm)

B = Distance from Pivot Point
to Swing Seat Surface

C = End Use Zone: B x 2
Both Sides of Top Rail

D = No-encroachment Zone
72 in. (1829 mm)



(EN)

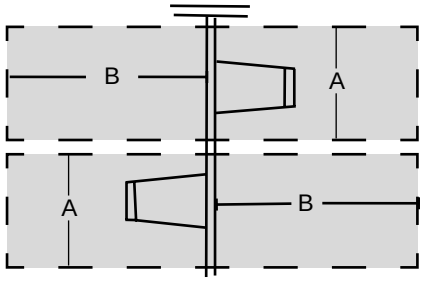
• For areas conforming to the EN-1176 Standard, the impact area shall be determined by calculating the horizontal distance where the swing seat is at an 60° arc and adding the appropriate amount of distance based upon the type of protective surfacing. This distance shall be covered by protective surfacing on both sides of the top rail. The protective surfacing shall be appropriate for the maximum fall height of the swing. There is no difference in the calculation based on the type of swing seat.

The impact area on both sides of top rail = (0.867 x Distance from pivot point to seat) + *either* 1750 mm if unitary surfacing *or* 2250 mm if loose-fill surfacing is used. There shall be a minimum corridor of 1750 mm centered on each swing seat for the length of the impact area.

Use Zones - EN Compliance

A = Width of the corridor centered on the swing seat
1750 mm

B = Length of the use zone on both sides of the top rail (8ft)
Tot Seats: 3290 mm for unitary surfaced areas
or 3790 mm for areas covered with loose fill surfacing.
Belt / Rigid Seats: 3510 mm for unitary surfaced areas
or 4010 mm for areas covered with loose fill surfacing



• Site layout is a critical part of the overall installation. Footings must be measured and marked accurately according to the footing diagram. A level and clear installation site is ideal.

• Good drainage around the structure and its supports is important. Inquire with local contractors for appropriate recommendations.

• After laying out all footings and before digging holes, be sure to inquire about underground utilities that may exist.

• Do not leave the job site unattended without making sure that all fastening hardware on all components are tightened according to tightening torque specifications listed on every installation guide. We also recommend roping off construction area and covering all holes that do not contain a piece of equipment with plywood or other suitable material.

• Excavate holes as shown in the footing detail. If a level and clear site cannot be obtained, adjust the depth of footing to maintain a level footing base. If soil conditions are loose or unstable, a larger diameter footing may be required. Inquire with local contractors for appropriate recommendations. Be sure concrete that might have splashed onto the unit is washed off before it dries. Allow concrete to harden 72 hours before allowing your structure to be used. **Assemble the entire structure before pouring concrete unless specifically instructed to do so in the installation instructions.**

• Insure that hard surface warning/Playworld Systems identification labels are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines.

• **IMPORTANT!** Because accidental falls around your playground equipment can occur, Playworld Systems recommends that the area under and around the structure be covered with a resilient material such as sand, bark mulch, or wood chips. If loose fill surfacing materials are used, Playworld Systems recommends a depth of 12 in. (305 mm). An approved rubber safety matting can also be used. **Many protective surfacing materials can become compacted due to weather and use, which reduces their shock absorbency. It is strongly recommended that the surfacing be checked weekly and material added or replaced as necessary. Hard surfaces, such as asphalt, concrete and packed earth are not acceptable for use under playground equipment.**

• The entire area, under and around the playground equipment, must be covered with protective surfacing material. The impact attenuation of the protective surfacing under and around playground equipment should be rated to have a critical height value of at least the height of the highest accessible part of the equipment. The critical height for surfacing is to be rated in accordance with A.S.T.M. standard, designated F1292, A Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. Contact the manufacturer of unitary surfacing materials (rubber matting) for the critical height rating for their products.

Tools Required: Playworld Systems supplies a service kit that contains commonly used hex key wrenches required to assemble your equipment. You may also need: shovel, digging iron, post hole digger, steel rake, wheelbarrow, garden hoe, water hose, tape measure, level, alignment tool, 3/8" ratchet with 9/16" socket, and 9/16" combination wrench.

Maintenance

• Inadequate maintenance of equipment has resulted in injuries on the playground. Because the safety of playground equipment and its stability depends on good inspection and maintenance, **a comprehensive maintenance program must be developed for each playground and strictly followed**. All equipment must be inspected frequently for any potential hazards. Special attention must to be given to moving parts and other components that can be expected to wear. Inspections must to be carried out in a systematic manner by trained personnel. Any damaged or worn parts, or any other hazards identified during inspections must be repaired or replaced immediately. Complete documentation of all maintenance inspections and repairs must be retained.

Supervision Guidelines

• Playworld Systems strongly recommends close supervision of the children as they play as well as intensive classroom and home instruction about safe behavior on playground equipment.

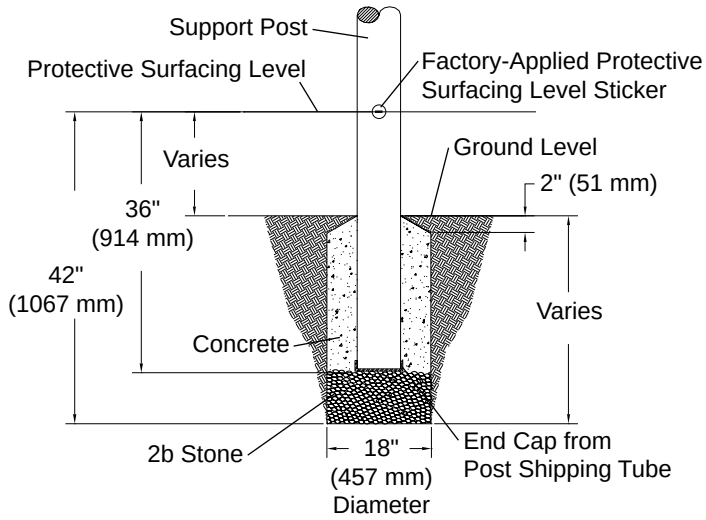
• Playground supervisors should be aware that not all playground equipment is appropriate for all children who may use the playground. Signs should be posted near the equipment indicating the recommended age of the users. Supervisors should direct children to equipment appropriate for their age.

• It is important that playground supervisors recognize that preschool-age children require more attentive supervision on playgrounds than older children.

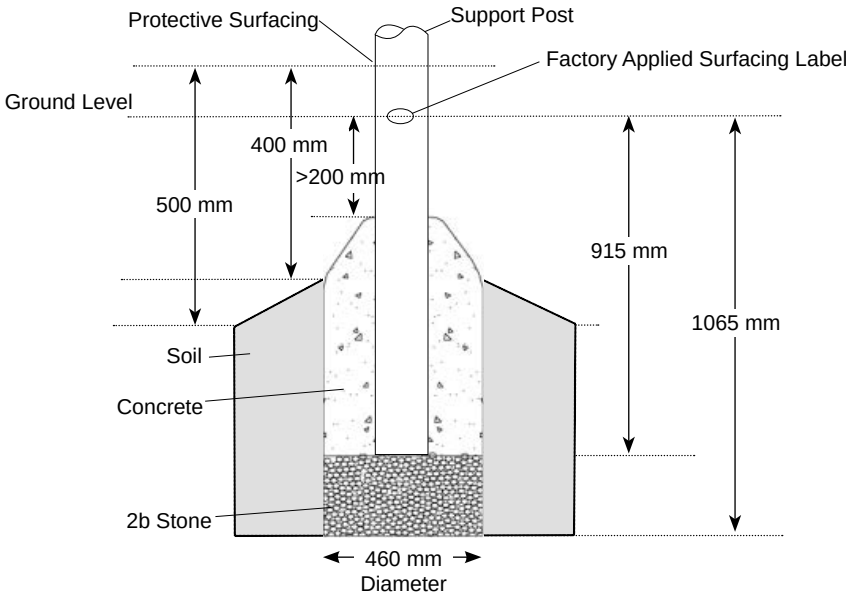
• Do not permit the use of wet playground equipment. Wet equipment will inhibit necessary traction and gripping capabilities. Slips or falls could occur.

• Do not permit too many children on the same piece of equipment at the same time. It is suggested that children take turns.

• Constantly observe play patterns to discover possible hazardous play and suggest changes in equipment use or play patterns.



Support Post Footing Detail (ASTM/CSA)



Footing Detail Support Post (EN)

FOOTING NOTES

- Support post footing depth equals 42 in. (1067 mm) less the depth of the protective surfacing material. The post is designed to have 24" (610 mm) in concrete.
  Example: If 12 in. (305 mm) of wood mulch is used for surfacing, the footing depth would be 30 in. (762 mm).

- All support posts and component support legs shall have either a factory-applied sticker with line, or factory-applied mark designating protective surfacing level on a clear and level installation site.

- If play structure is installed on uneven terrain, maintain support post mark at protective surfacing level at lowest grade. Adjust other footings accordingly. Support posts and all attaching decks and play components must be plumb and level.

- Do not encase bottom of support post in concrete. Place post directly on packed stone.

- The footings shown on Playworld Systems' documentation are recommendations based on historical performance in average soil conditions. Footing dimensions may be modified by the owner based on actual soil conditions.
  For example:
  - If local soil is loose or unstable, a larger footing may be required.
  - If local soil is considered stable, such as bedrock, clay or hard packed earth, a smaller footing may be used. Before changing footing dimensions, we strongly recommend that the footings be reviewed and approved by a registered engineer.

- Base of footing must be below frost line.

- Assemble the entire structure before pouring concrete unless specifically instructed to do so in the individual component installation instructions.

PLAYWORLD SYSTEMS®
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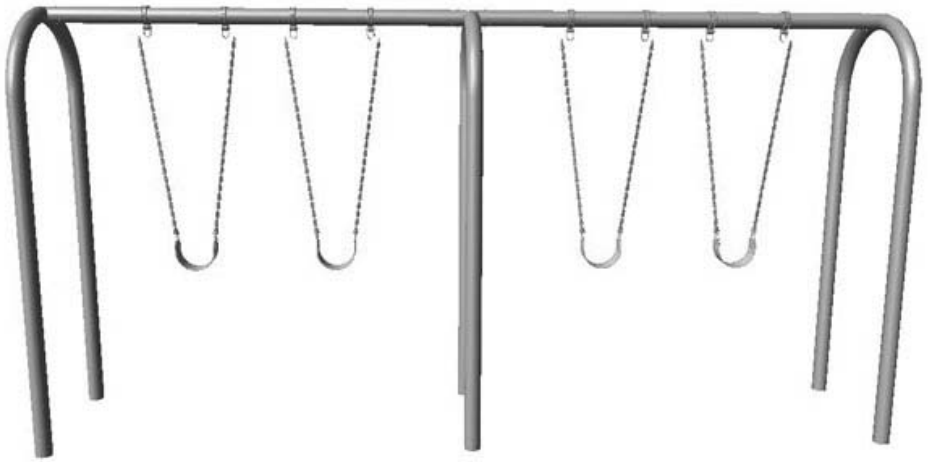
Installation Instructions
Playworld Systems® Model XX0370
5 in. (127 mm) O.D. Aluminum Arch Swing
2-Unit Add-A-Bay

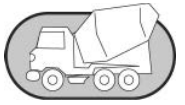
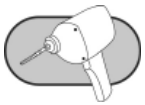
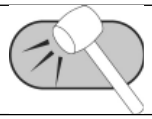
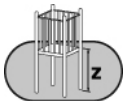


Assembly View

Installation Preparation

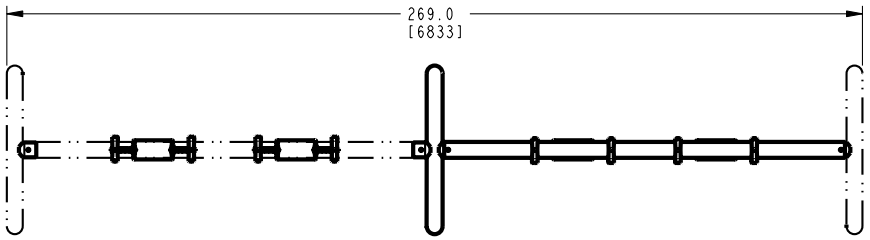
Recommended Crew: ..... Three (3) adults
Installation Time: ..... 2 man-hours
Weight: ..... *156.2 lbs. (70,3 kg)
Concrete Required: ..... 0.24 cubic yard (0,18 cubic meters)
Use Zone:..... Refer to Master Drawing
User Group Age (years): ..... ASTM/CSA: 2-12, EN: 2-14

**Weights are approximate for determining manpower.*

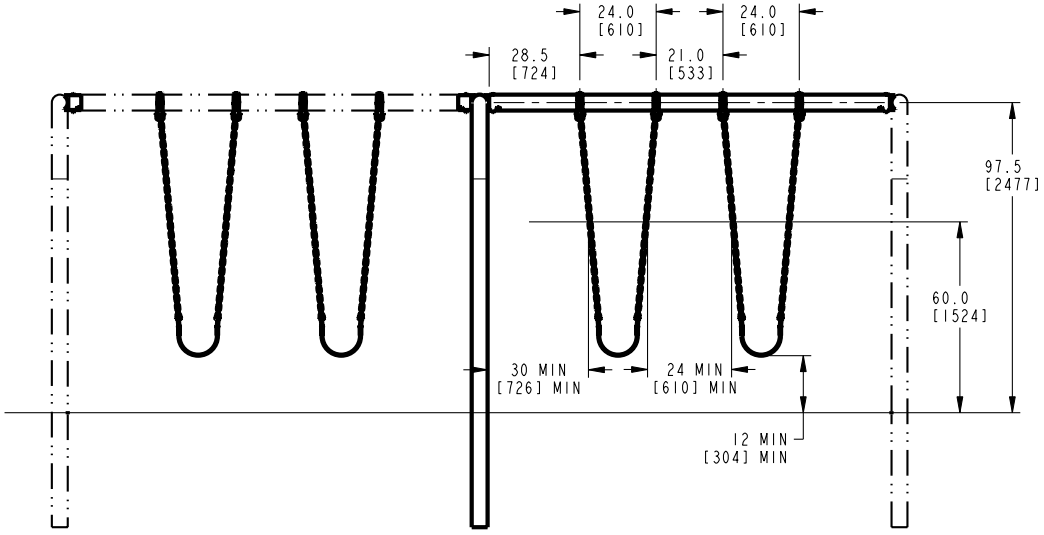
ICON KEY			
	Fully Tighten Hardware		Add 1 Drop of Thread Locking Adhesive
	Do **Not** Fully Tighten Hardware		Pour Concrete
	Drill		Dig Footing Holes
	Hammer		Critical Fall Height

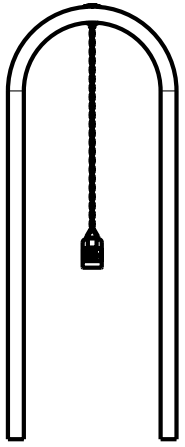
KEY	
Position	**Unit of Measurement**
Top #	Inches
Bottom #	[Millimeters]

Top View

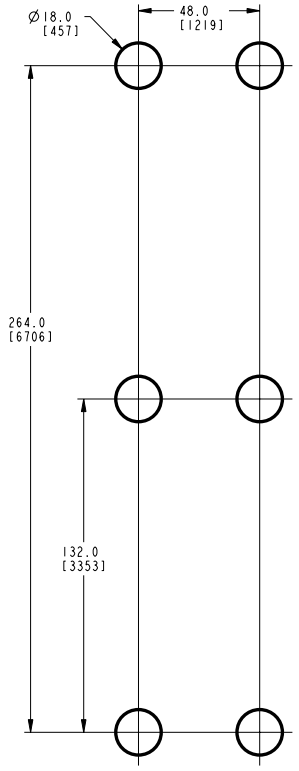


Note: Swing Hanger locations are dimensioned from end of the Top Rail to center of Swing Hanger.





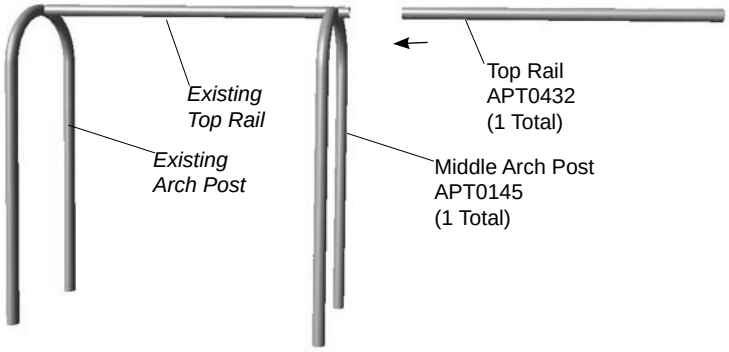
Elevation Views

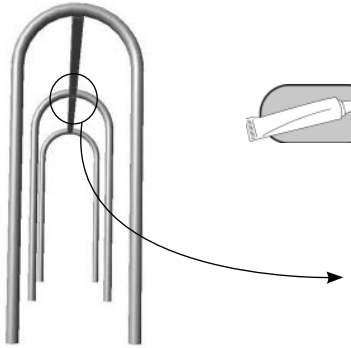


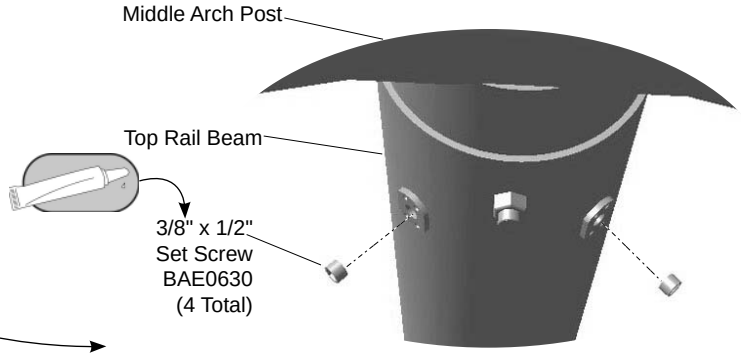
Footing Diagram

Installation Instructions

Follow the details in alphabetical order. For clarification, each detail references the step description. The step descriptions start on page 9.





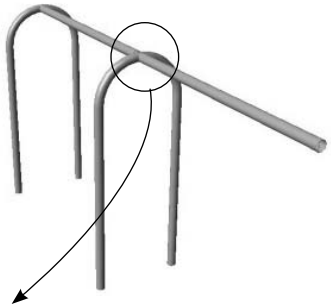


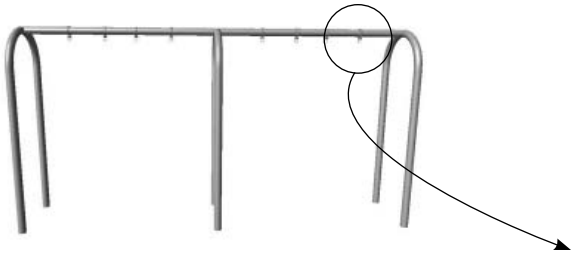
Underneath View

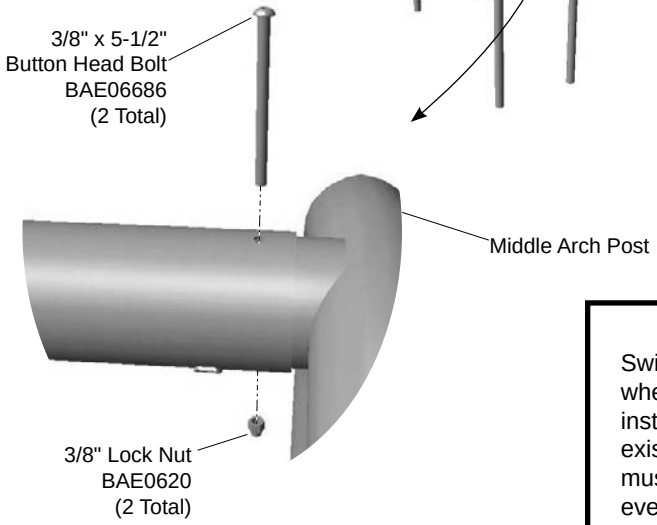
Detail B

Step 7

Secure the top rails to the middle arch post.







Detail A

Step 5

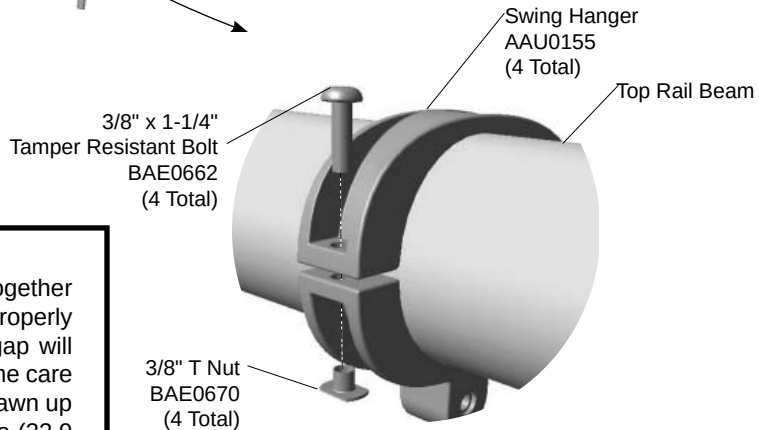
Attach both top rails (new and existing) to the middle arch support.

CAUTION

Swing hangers cannot be completely drawn together when attaching to the swing top rail. When properly installed, a gap of approximately 1/8" (3 mm) gap will exist between the swing hanger castings. Extreme care must be taken that nuts on swing hangers are drawn up evenly. Do **NOT** over tighten or exceed 25 ft lbs (33.9 Nm) of torque.

Warning!

Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

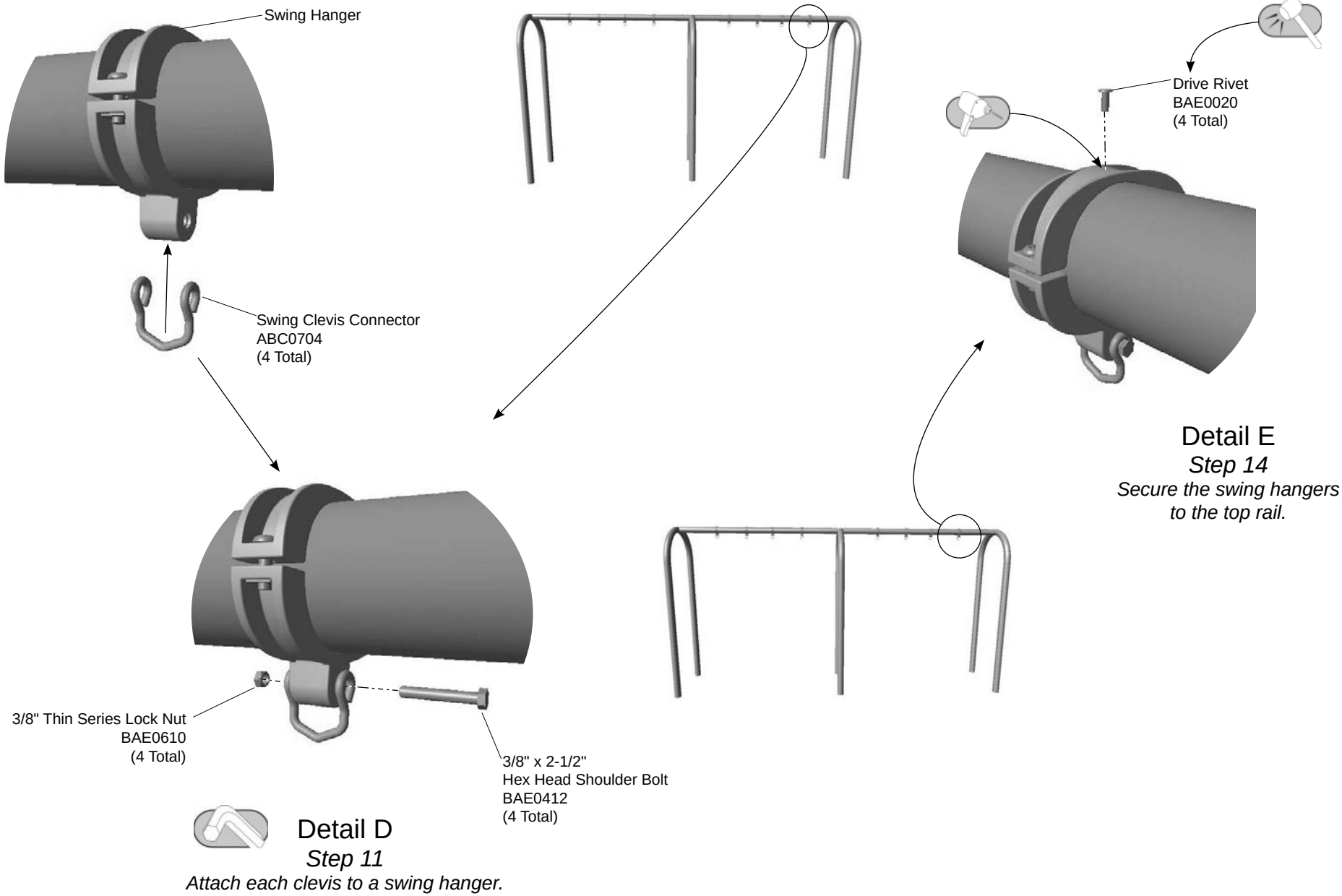


When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp.

Detail C

Step 10

Attach swing hangers to the top rail.



Detail D

Step 11

Attach each clevis to a swing hanger.

Detail E

Step 14

Secure the swing hangers to the top rail.

Notes Before You Begin: Do not over tighten bolts during assembly, only snug tighten them until assembly is complete.

Carefully read and understand these installation instructions before you begin.
Step 1: Before attempting to assemble your equipment, please review all installation information carefully. Should you experience any difficulty during the installation process, please call us at the phone number shown on the last page of these instructions.

Step 2: Separate and identify all components and hardware.

Step 3: Prepare footings as shown in the **Support Post Details** on **Page 4**.

Existing Swing
Step 4: Applies to adding an additional bay to a pre-existing product, remove (1) one of the existing arch supports by unscrewing and removing the connection to the top rail. Dig around the footing of the support post and transplant it to the opposing end of the bay addition as shown in the **Footing Diagram**. After completing, proceed to **Step 5**.

New Installation
Assemble the swing frame.
Step 5: Attach both top rails (new and existing) to the middle arch support. See **Detail A**. Select the top rail, the middle arch support, and the appropriate hardware. There are (2) two connections. Place the middle arch support in the excavated footings and brace. Place the top rail onto the arch stub and align holes. Attach as shown.

Re-Connect opposite end of frame.
Step 6: Re-attach arch support to opposite end of frame using existing hardware. Refer to the documentation that came with your original swing frame.

Step 7: Secure the top rails to the arch posts. See **Detail B**. Apply a drop of loctite to the set screw threads and thread each screw into a hole on the underside of the post stub. Fully tighten connections according to tightening torque specifications.
Torque Specifications:
Bolts and nuts - Snug tighten and then tighten an additional one half turn.
Set Screws - Snug tighten and tighten an additional full turn.

Position the swing frame.
Step 8: Place the swing frame into the footings. Square and level the swing frame assembly at specified footing depth. Top rail height shall be 96 in. (2438 mm) as measured from top of the protective surfacing material level to the bottom of the top rail. Fully tighten all bolts in accordance with tightening torque installation instructions. Block and brace for concrete.

Step 9: Fill the footings with concrete to within 2 in. (51 mm) of ground level as shown in the **Footing Detail**. Plumb and level the component. Block and brace for concrete. Allow concrete to harden for 72 hours before proceeding with **Step 10**.

Attach swing hangers to the top rail.
Step 10: Attach swing hangers to the top rail. See **Detail C**. Close the clamps around the top rail and attach as shown. Ensure hangers are properly spaced and positioned on top rail (See **Elevation View**). There is a ridge on the underside of the bottom band to keep the T nut from rotating. **When tightening the bolt ensure that the T nut does not protrude past the edge of the clamp**.
Note: Please read **CAUTION** before fully tightening the connections.

Important Note: Swing hangers should be positioned a minimum of 20" (508 mm) apart. Additionally, the horizontal distance between the vertical support and the swing shall be no less than 30 in. (760 mm) when measured at 60 in. (1524 mm) from the level of protective surfacing. Please refer to the USCPSC Handbook for Public Playground Safety for proper placement.

Step 11: Attach each clevis to a swing hanger. See **Detail D**. Position each clevis over the bottom hanger bushing and align holes. Insert a hex head bolt through the clevis eye, through the hanger bushing, through the other clevis eye and secure with a thin series lock nut.
Important Note: Tighten the thin series lock nut on shoulder bolt until the clevis binds on the swing hanger casting. Then loosen the thin series lock nut approximately 1/4 turn until the swing clevis moves freely. Insure the bolt threads are fully engaged into the nut's locking device.
Note: Swing clevises will need to be removed from swing hangers to install selected swing seat.

Final Details

Step 12: See Swing Seat Installation Instruction sheet for swing seat attachment. Swing seats are ordered separately.

Step 13: Tighten **all** fasteners. Fully tighten all fasteners according to tightening torque specifications.

Torque Specifications:

Bolts and nuts - Snug tighten and then tighten an additional one half turn.

Set Screws - Snug tighten and tighten an additional full turn.

Step 14: Install drive rivets. See **Detail E**. After the equipment assembly is complete, install a drive rivet in each clamp to permanently secure it to the support post. Using a 1/4" drill bit, drill through the clamp and support post. Insert the drive rivet into drilled hole until the head of the rivet is against the surface of the clamp. Using a hammer, drive the pin of the rivet until it is flush with the surface of the rivet head.

Note: This step should be executed after structure has been assembled and properly footed.

Step 15: For areas complying with ASTM standard F1487 or the CSA Z-614, apply the age appropriate label to the equipment at eye level.

XX0370 - 5 in. O.D.(127 mm) 2-UNIT ALUMINUM ARCH SWING ADD-A-BAY

PART NO.	DESCRIPTION	QTY.
AAU0155	HANGER - 5" SWING	4
ABC0704	CONNECTOR - SWING CLEVIS	4
APT0145	POST - 5" O.D. x 133-1/2" DUAL ALUM ARCH SUPPORT	1
APT0432	BEAM - 5" x 126" ARCH SWING TOP RAIL	1
BAD0085	THREAD LOCKING ADHESIVE	1
BAE0020	RIVET - 1/4" x 11/16" DRIVE	4
BAE0412	BOLT - 3/8"-16 x 2 1/2" HEX HEAD SHOULDER	4
BAE0610	NUT - 3/8"-16 THIN LOCK	4
BAE0620	NUT - 3/8"-16 LOCK w/NYLON CAP	2
BAE0630	SCREW - 3/8"-16 x 1/2" SOCKET SET SS	4
BAE0662	BOLT - 3/8"-16 x 1-1/4" TAMP RESIST w/TORX DRIVE	4
BAE06686	BOLT - 3/8"-16 x 5.50" BUTTON HEAD - SS	2
BAE0670	T-NUT - 3/8"-16 x 7/16" - SS	4
BAE0905	WRENCH - 3/16" SHORT HEX KEY	1
BAE0915	BIT - 3/8" TAMPER RESISTANT	1
BAE0922	TOOL - TT 45 L WRENCH	1
ALB0025	LABEL - ASTM AGE APPROPRIATE	1

PLAYWORLD SYSTEMS®
The world needs play.™
For Customer Service, Call
800-233-8404 or
570-522-9800 OUTSIDE U.S.
1000 Buffalo Road • Lewisburg, PA 17837
www.playworldsystems.com

FINAL INSPECTION

- Playworld Systems® insists on the installation of protective surfacing within the use zone of each play structure in accordance with the applicable standard for your area, appropriate for the fall height of each structure.

- Playworld Systems® strongly recommends close supervision of children as they play. The owners of playground equipment and the parents or guardians of children are responsible for this proper supervision.

- As the owner of playground equipment, you are responsible for the maintenance of the equipment and surrounding play area. A comprehensive maintenance and inspection schedule must be developed and all equipment inspected frequently. Refer to the inspection and maintenance schedule in the back of this booklet.

- Perform a thorough final check on the installed equipment to insure all equipment is installed as specified by manufacturer's installation instructions.

  - Review all Installation Instructions for specified dimensions. Make sure dimensions called for in instructions agree with actual installation.

  - Double check height dimensions. Height measurements are taken from the top of the protective surfacing material.

  - Insure all fasteners are tightened according to tightening torque specifications listed on your installation instructions.

  - Clean dried concrete off of components and any other affected surface.

  - Touch-up any scratches or installation damage to powder coated finish with color-matched spray paint.

  - Allow adequate time for proper curing, both for concrete and urethane cement if rubber safety surfacing tiles have been installed.

  - Insure that protective surfacing is properly installed according to recommendations. Footings must not be exposed. Refer to the florescent orange sheet included in the front of the installation instruction booklet titled "Owners Manual".

  - Insure that hard surface warning/Playworld Systems® identification labels (shown below) are properly affixed to the play equipment. Labels are to be plainly visible according to current playground equipment guidelines. For areas complying with ASTM F-1487 or CSA Z-614 an age appropriate label must be applied in a visible location.

  - Dispose of all packaging material properly. These materials which include large plastic bags and sheets can be a suffocation hazard. Dispose of these materials out of reach or contact of small children.

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PLAYWORLD SYSTEMS®
The world needs play.™

Swing Hangers
- Inspect swing hangers to insure they are properly secured to the support posts.
- Use the supplied torx-style tamper-resistant bit to insure bolt connection is tight.
- Use the supplied 3/16" hex key wrench to insure the set screw connection is tight.
- Inspect drive rivets to insure they are intact and secure.
- Visually inspect swing hangers for cracks or breakage. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Fasteners
- Inspect for loose fasteners.
  Tightening torque specifications are:
  Bolts and Nuts: Snug tighten and tighten an additional one-half turn.
  Set Screws: Snug tighten and tighten an additional full turn.
- If during the maintenance process a bolt needs to be removed from a part or parts, it will be necessary to apply a drop of liquid thread lock / loctite to the bolt before reinstallation.
- Inspect for missing, worn or broken fasteners. If any missing, worn or broken fasteners are found, refer to the installation instructions for proper replacement fastener. If any damage is detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Welds
- Inspect all welded joints. If any broken welds are detected, barricade equipment to prevent use until repair is completed. Contact your sales representative immediately for a replacement part.

Finish
- Inspect metal parts for finish damage.
  To repair painted surfaces, sand damaged area with sandpaper and wipe clean. Mask area and paint with primer and allow to dry. Paint primed area with color-matching paint and allow to dry. Recoat area with color-matching paint if required. Drying time is approximately 8 hours between coats.

Footings
- Inspect component to be solid in footing and secure. If any damage is detected, barricade equipment to prevent use until repair is completed.

Surfacing
- Refer to the specific surfacing maintenance detail sheet for additional information.

Replacement Parts
- Refer to your installation instructions to obtain replacement part number.
- Contact your sales representative or call Playworld Systems' Customer Service for a replacement part.

Equipment Maintenance

Playworld Systems® Model XX0370
5 in. (127 mm) O.D. 2-Unit
Aluminum Arch Swing Add-A-Bay

Warning!
Exceeding 25 ft lbs (33.9 Nm) of torque on the swing hanger bolts may cause damage to the swing band.

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Inspection Form

- Be sure that you are using a copy of this Inspection Form and not your original.
- Use the Inspection Codes listed below and record condition of equipment at time of examination on the Inspection Checklist.
- Document any item from the Inspection Checklist that will require maintenance along with any corrective action on the Maintenance Schedule.
- Be sure to include appropriate dates and signatures on each section to properly document maintenance procedure.

Preventive Maintenance
. . . for Safety's Sake!

INSPECTION CHECKLIST

	Frequency	Inspection Code	Inspection Date	Date Repairs Completed
Inspect surfacing to insure proper depth and distribution.	High			
Inspect swing hangers for tightness and damage.	High			
Inspect metal parts for structural and finish damage.	Medium			
Inspect for loose, missing, worn, or broken fasteners.	High			
Inspect footing to insure support is secure and footing is not damaged.	Low			

Inspection Codes
P = Pass **F** = Fail
NA = Not Applicable

Inspector: Name (Please Print) _____ Signature:_____ Date:___ /___ /___

MAINTENANCE SCHEDULE

Item in Question	Description of Problem	Corrective Action	Date

Repairer: Name (Please Print) _____ Signature:_____ Date:___ /___ /___