### PARTS LIST

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Unless otherwise specified, all units of measure are each.

Note: Loctite (supplied by others) should be used on all threaded hardware.
NOTE: 12583 FREESTANDING
12584 ADD-A-BAY

ASSEMBLY DRAWING
12583 SHOWN WITH OPTIONAL STANDARD SEAT PACKAGES

DIMENSION FROM UNDERSIDE OF SEAT TO PROTECTIVE SURFACING

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<th>MAX.</th>
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<tr>
<td>ASTM</td>
<td>12&quot; [305mm]</td>
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<td>BS EN</td>
<td>350 mm [13.77&quot;]</td>
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<td>CPSC</td>
<td>12&quot; [305mm]</td>
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* UNDER LOADED CONDITION BASED ON WEIGHT OF 165lb. [75kg.]

NOTE: SWING SEAT PACKAGES SHOWN ON ASSEMBLY DRAWINGS NOT INCLUDED. SHOWN FOR ILLUSTRATION ONLY.

TOPRAIL DIMENSIONS

<table>
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<tr>
<th>DIM.</th>
<th>A</th>
<th>B</th>
<th>C</th>
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</thead>
<tbody>
<tr>
<td>DIM. A</td>
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<td></td>
</tr>
<tr>
<td>DIM. B</td>
<td>2'-2&quot; [66.04cm]</td>
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<tr>
<td>DIM. C</td>
<td>1'-10 3/4&quot; [57.78cm]</td>
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ASSEMBLY DRAWING
12583 SHOWN WITH OPTIONAL
STANDARD SEAT PACKAGE
& ADAPTIVE SEAT w/ CHAINS

DIMENSIONS
"A" & "E" FROM
END OF TOPRAIL

TOPRAIL DIMENSIONS
DIM. A 2'-5" [73.88cm]
DIM. B 2'-8" [81.28cm]
DIM. C 1'-10 3/8" [60.83cm]
DIM. D 2'-2" [66.04cm]
DIM. E 2'-10 5/8" [87.95cm]

8'-1 3/4"
[248.28cm]

SEE CHART
(PAGE 1)

TOP OF ARCH
FINISHED SURFACE
ASSEMBLY DRAWING
12583 SHOWN WITH OPTIONAL ADAPTIVE SEATS w/ CHAINS

DIMENSION "A" FROM END OF TOP RAIL

8' - 1 3/4" [248.29cm]

TOP OF ARCH
FINISHED SURFACE

SEE CHART (PAGE 1)
ASSEMBLY DRAWING
12583 SHOWN WITH OPTIONAL ZERO-G CHAIRS
DIMENSION "A" FROM END OF TOPRAIL

8'-1 3/4" [248.29cm]

TOPRAIL DIMENSIONS
DIM. A 3'-1" [93.88cm]
DIM. B 1'-8" [50.80cm]
DIM. C 2'-8" [76.20cm]

ASSEMBLY DRAWING
12583 SHOWN WITH OPTIONAL EXPRESSION SWINGS
NOTE: Hole depths indicated on all
ground plans are measured from the
finished surface. See Detail 005. All
footing dimensions are based on level
finished surface.

GROUND PLAN

Concrete Required - 12583:
.92 Cubic Yards
[.70 Cubic Meters]

Concrete Required - 12583/12584:
1.38 Cubic Yards
[1.06 Cubic Meters]
ASSEMBLY DRAWING
12584 SHOWN WITH STANDARD SEAT PACKAGES

TOP OF ARCH
FINISHED SURFACE

EXISTING ARCH UPRIGHT

6'-1 3/4"
[249.28cm]

SEE CHART (PAGE 1)
NOTE:
1. OWNER/OPERATOR SHALL INSTALL AND MAINTAIN PROTECTIVE SURFACING WITHIN THE USE ZONE (U.S.) OR PROTECTIVE SURFACING ZONE (CANADA) OF ALL PLAY EQUIPMENT TO COMPLY WITH ASTM F-1292 AND ASTM F-1487 (U.S.) or CAN/CSA-Z-814 (CANADA).
2. SOLID OUTSIDE BORDER REPRESENTS MINIMUM REQUIRED ASTM USE ZONE AND CSA PROTECTIVE SURFACING ZONE FOR SWING FRAME SHOWN.
3. DASHED LINES REPRESENT CSA NO ENCROACHMENT ZONE (CANADA ONLY).
4. "EACH ADDITIONAL CONNECTED SWING FRAME BAY INCREASES THE USE ZONE SURFACING, AND NO ENCROACHMENT ZONE DIMENSIONS BY 12'-5 1/8" [3.79M].
SPECIFICATIONS

TOPRAIL AND ARCH: Shall be fabricated of 3-1/2" O.D. (11 Gauge) galvanized steel tubing. Arch includes a welded 3-1/8" O.D. galvanized steel sleeve to which the toprail is fastened.

FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder with baked finish. Specify color desired.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing.

SPECIFICATIONS: GAME TIME® has a policy of continuous improvement and reserves the right to change specifications without notice.

IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS

☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

☐ Equipment should be placed to eliminate conflicting traffic patterns.

☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt and protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

☐ GAME TIME® PROVIDES ITS CUSTOMERS WITH COMPLETE INSTALLATION SHEETS AND INSTALLATION INSTRUCTIONS. THE INSTALLATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

☐ Never add components not intended for use with this product.

☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

☐ Proper maintenance of GAME TIME® equipment requires regular tightening of all bolts, nuts, and set screws.

☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.

☐ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.


☐ Test for free movement of swing hanger and other moving attached parts.

☐ Check for worn chains and replace them.

☐ Replace worn or damaged seats.

☐ A soft, resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat, both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.
INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE
KEPT IN CUSTOMER’S FILE FOR FUTURE
REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may
cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before
starting assembly. Pour concrete only after final
assembly is complete.Bracing material may be required
during assembly.

NOTE: Do not tighten any nuts, bolts, rods, etc. until
the unit is completely assembled.

NOTE: Due to extremes in weather and soil conditions,
hole sizes may have to be increased to meet local
conditions.

NOTE: It is important to check the hole location in the
upright and on the drawings while assembling this unit.

STEP 1: Dig holes according to the Ground Plan (see
Detail 005 also). Place a brick or equivalent at the
bottom of the hole to provide a solid foundation. Allow
for this in hole depth (see Detail 005).

STEP 2: Insert top rail onto socket on the arch and
secure with 1/2" x 4" hex head bolt, 1/2" flat washer, 1/2"
lock washer and 1/2" hex nut. Bolt head should recess
inside oversize hole as shown in Detail 020.

STEP 3: Set frame in holes, making sure that legs rest
on foundation bricks. Check to ensure swing is level.

STEP 4: Fill holes with concrete per Detail 005. Plumb
and brace assembly. Allow a minimum of 48 hours for
cement to harden before continuing.

NOTE: Loctite (supplied by others) should be used on
all threaded hardware.

STEP 5: Place swing hangers on top rail using
Assembly Drawing for spacing. Hang seats per
Installation Sheet for swing seats.

STEP 6: After assembly is complete, place
manufacturer’s I.D. label in a visible location.

PARTS LIST

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<th>DESCRIPTION</th>
<th>NO. REQ'D</th>
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*Unless Otherwise Specified, All Units of Measure are Each
* Included In Hardware

Warning: During installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Loctite (supplied by others) should be used on all threaded hardware.
DETAILS - for 12583 & 12584

**IMPORTANT**

To Reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

**Note:** After assembly is complete, peen tee-nuts and flatwashers to match radius of pipe.

---

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<th>DIA. &quot;A&quot; (PIPE SIZE)</th>
<th>DIA. &quot;B&quot; (FOOTING SIZE)</th>
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<tr>
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<td>1-2&quot; [35.58 cm]</td>
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<tr>
<td>2 3/8&quot; [6.03 cm]</td>
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<tr>
<td>3 1/2&quot; [8.89 cm]</td>
<td>1-8&quot; [45.72 cm]</td>
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**ARCH SWING**

3 1/2" [8.89 cm] 2-0" [60.96 cm]

---

**NOTES:**
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI.

**SHOCK ABSORBING MATERIALS VARY.** IF YOU DETERMINE THAT LESS THAN 1-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

**NOTE:** PEEN FLATWASHERS AFTER INSTALLATION TO MATCH RADIUS OF TOPRAIL.

---

**DIMENSIONED TO TOP OF BRICK OR EQUIVALENT**

**VARIES (REFER TO OVERALL UNIT GROUND PLAN)**

**CONCRETE**

**BRICK OR EQUIVALENT**

**EARTH**

**SHOCK ABSORBING MATERIAL**

---

**ARCH UPRIGHT**

1/2" x 4" HEX HEAD BOLT (801215)

OVERSIZE HOLE TO RECEIVE BOLT HEAD

1/2" FLAT WASHER (817412)

1/2" LOCK WASHER (817342)

1/2" HEX NUT (804055)
NATIONAL DEMONSTRATION SITE SIGN PACKAGE

ISSUED/REVISED: 2/15/19

- INSTALLATION
- DETAIL
- PARTS LIST
- REFERENCE

NDS FITNESS SIGN PACKAGE 14926
NDS PLAY ON SIGN PACKAGE 14927
NDS INCLUSIVE PLAY SIGN PACKAGE 14928
NDS PATHWAYS FOR PLAY SIGN PACKAGE 14929
NDS NATURE GROUNDS SIGN PACKAGE 14930

ASSEMBLY VIEW

TOP VIEW

1'-1 1/8" [33.31 cm]

1'-10 1/4" [56.52 cm]
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

GROUND PLAN

CONCRETE REQUIRED:
12 CUBIC YARDS
[.09 CUBIC METERS]

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 298. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.
INSTALLATION INSTRUCTIONS

NOTE: THIS INSTALLATION BOOKLET SHOULD BE KEPT IN CUSTOMER’S FILE FOR FUTURE REFERENCE.

NOTE: Do not overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

NOTE: Read installation instructions thoroughly before starting assembly. Bracing material may be required during assembly.

STEP 1: Dig required hole. Place a brick or equivalent in the bottom of hole to provide a solid foundation. See Assembly Drawing and Ground Plan.

STEP 2: Bolt Sign onto Sign Post Weld Assembly as shown in Detail 834.

STEP 3: Place Anchor Rod into Sign Post Weld Ass’y using Detail 837.

STEP 4: Place Assembly into center of ground hole, plumb and level. Pour concrete in ground hole all 48 hours to cure.

SPECIFICATIONS

SIGN POST WELD ASSEMBLY: Shall be an all welded construction consisting of 3 1/2" O.D. x .096" (13 gauge) wall galvanized steel tubing and 1/4" thick hot rolled steel mounting plate. The Sign Post Weld Assembly shall be an all weld assembly and shall be coated after fabrication with a custom formula of TGIC polyester powder coating in conformance with the specification outlined herein.

NDS SIGNS: The NDS Signs shall be 1/2" thick exterior DHPL with a 12 color high definition printed graphic with four 1/4"-20 UNC threaded inserts for mounting.

POWDER COAT FINISH: Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a four stage solvent/zirconium based bath system (free of iron phosphate), as a rust inhibitor, and a zirconium conversion coating to prevent flash rusting before coating. In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: Two coat process to achieve 3.0 - 5.0 mil thickness and oven cured between 350 degrees Fahrenheit. Pencil Hardness H (ASTM D-3359), Impact (ASTM D-2794-59), Wedge Bend (ASTM D-522-68), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 350 degrees Fahrenheit for 10 minutes.

HARDWARE: All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment, shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 300 series stainless steel. Fasteners with yellow dichromate treatment have an electro deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 320% longer life to white corrosion and 275% longer to red corrosion than does hot dip galvanizing. NOTE: All weights are based on average comparisons of each part.

SPECIFICATIONS: GAMETIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.
STOP  IMPORTANT PRODUCT INFORMATION
AND SAFETY WARNINGS  STOP

☐ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

☐ Equipment should be placed to eliminate conflicting traffic patterns.

☐ To reduce risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off, filed smooth and treated to prevent corrosion. Sharp edges on pipes should be capped or removed. Check for bent, broken or severely worn pipe and replace.

☐ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

☐ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

☐ GameTime® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

☐ Never add components not intended for use with this product.

☐ Regular maintenance is necessary on this and all park and recreational equipment to ensure the safety of the user.

☐ Proper maintenance of GameTime® equipment requires regular tightening of all bolts, nuts, and set screws.

☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.

☐ Regular checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.

☐ Never use GAMETIME playground equipment around or in conjunction with swimming pools, ponds, lakes or any other bodies of water.

☐ Check to be sure all fittings are tight and that the bars and pipes do not move.

☐ A soft resilient surface should be placed under all swings, extending at least six feet beyond the farthest arc of the swing seat both front and back. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.
DETAILS -for-
14926-14930

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT, IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

SHOCK ABSORBING
MATERIAL
0'-3'
[7.62 cm]

DIMENSIONED
TO TOP OF
BRICK OR
EQUIVALENT

VARY.
(REFER TO OVERALL
UNIT GROUND PLAN)

CONCRETE

EARTH

"A"

"B"

DIMENSIONED
TO TOP OF
BRICK OR
EQUIVALENT

NOTES:
- SLOPED FOOTING IS A REQUIREMENT
- OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE
RATING: 3000 PSI

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<tr>
<th>DIA. &quot;A&quot; (PIPE SIZE)</th>
<th>DIA. &quot;B&quot; (FOOTING SIZE)</th>
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<tr>
<td>(1\frac{5}{16}'') [3.33 cm]</td>
<td>(1\frac{1}{2}'') [3.81 cm]</td>
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<td>(1\frac{5}{8}'') [4.13 cm]</td>
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<td>(3\frac{1}{2}'') [8.89 cm]</td>
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<tr>
<td>(5'') [12.70 cm]</td>
<td>(1\frac{3}{4}'') [4.76 cm]</td>
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SIGN

1/4'' FLAT WASHER
(5/8'' O.D.) (817408)

1/4'' LOCK WASHER
(817327)

1/4'' x 3/4'' B.H.C.S.
(811010)

SIGN POST
WELD ASSY

UPRIGHT

1/2'' ANCHOR ROD
(150538)

PAGE 5
INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. Loctite (supplied by others) should be used on all threaded hardware.

NOTE: THE LEAF SPACING ON 38010 IS FROM GROUND TO 3'-0".

NOTE: THE LEAF SPACING ON 38011 IS FROM 4'-0" TO 6'-0".
Parts List

<table>
<thead>
<tr>
<th>REF.</th>
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<td>6</td>
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<tr>
<td>8</td>
<td>3/8&quot; x 1 1/4&quot; P.B.H.C.S. w/PATCH</td>
<td>16</td>
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<tr>
<td>20</td>
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<td>40</td>
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<td>817410*</td>
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</table>

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peel Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

---

CONCRETE REQUIRED
16 CUBIC YARDS
.12 CUBIC METERS

GROUND PLAN

NOTE: WHEN USING 38010 AND 38011 SIDE BY SIDE
THE UPRIGHT SPACING IS 3'-9" 1/2" FROM CENTER TO CENTER.
SPECIFICATIONS

LEAF STEP
Shall be color impregnated linear low-density polyethylene and shall conform to the rotationally molded specifications outlined herein with double wall construction molded to a minimum .25" wall thickness.

LEAF BRACKET
Shall be fabricated from 1-1/16" O.D. x 15 gauge (.072") wall, 1-5/16" O.D. x 14 gauge (.083") wall Galv. Steel Pipe and 3/16" Hot Rolled Steel. The Leaf Bracket shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

HANDHOLD
Shall be fabricated from 1-1/16" O.D. x 15 gauge (.072") wall, 1-5/16" O.D. x 14 gauge (.083") wall Galv. Steel Pipe and 3/16" Hot Rolled Steel. The Handhold shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

ROTATIONALLY MOLDED PRODUCTS
All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D- 1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-750); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

POWDER COAT FINISH
Shall be an electrostatically applied custom formula of TGIC polyester powder. All components will be free of sharp edges and excess weld spatter and shall be cleaned in a six stage bath system with an iron phosphate wash, as a rust inhibitor, and a sealer to prevent flash rusting before coating.

In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-88), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 400 degrees Fahrenheit.

HARDWARE
All nuts, bolts, screws, inserts, and lockwashers used in the assembly of all play equipment shall be stainless steel, yellow dichromate plated steel, blue-coat plated steel, mechanically galvanized or powder coated/yellow dichromate plated steel. All primary fasteners shall be 304 alloy stainless steel. Fasteners with yellow dichromate treatment have an electro-deposited, 99.9% pure zinc substrate applied from a specially formulated solution sealed with a yellow dichromate top coat designed to work in conjunction with the zinc plating. Yellow dichromate has a 322% longer life to white corrosion and 275% longer to red corrosion than does hot-dip galvanizing. All primary stainless steel fasteners shall be Button Head Socket Caps.

SPECIFICATIONS
GAME TIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.
□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

□ Equipment should be placed to eliminate conflicting traffic patterns.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER'S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

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□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.

□ Check for loose spring castings and tighten.

□ A soft, resilient surface should be placed under all equipment, extending at least six feet in all directions surrounding the equipment. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.
DETAILS -for-
38010

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

NOTES:
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

LEAF STEP

UPRIGHT

HANDHOLD

3/8" LOCK WASHER (817334)

3/8" x 1 1/4" P.B.H.C.S. w/PATCH (812051)

3/8" FLAT WASHER (817410)

3/8" FLAT WASHER (817410)

3/8" LOCK WASHER (817334)

3/8" x 1" P.B.H.C.S. w/PATCH (812050)
INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. Loctite (supplied by others) should be used on all threaded hardware.

NOTE: THE LEAF SPACING ON 38010 IS FROM GROUND TO 3'-0".

NOTE: THE LEAF SPACING ON 38011 IS FROM 4'-0" TO 6'-0".
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<td>20</td>
<td>817410*</td>
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</table>

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

**Warning:** During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

*Note:* Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.

---

**GROUND PLAN**

**Note:** When using 38010 and 38011 side by side
The upright spacing is 3'-9 1/2" from center to center.

---

**CONCRETE REQUIRED**

16 CUBIC YARDS

12 CUBIC METERS
SPECIFICATIONS

LEAF STEP
Shall be color impregnated linear low-density polyethylene and shall conform to the rotationally molded specifications outlined herein with double wall construction molded to a minimum .25" wall thickness.

LEAF BRACKET
Shall be fabricated from 1-1/16" O.D. x 15 gauge (.072") wall, 1-5/16" O.D. x 14 gauge (.033") wall Galv. Steel Pipe and 3/16" Hot Rolled Steel. The Leaf Bracket shall be coated with a custom formula of TGIC polyester powder coating in conformance with the specifications outlined herein, after fabrication.

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All polyethylene shall be linear low-density material with UV-stabilized color and an anti-static compound additive. All rotationally molded products shall meet or exceed the following specifications: ASTM D-1248, type 2, class A and Federal specification LP-390C, type 1, class M, grade 2, category 3; Density (ASTM D-1505); Brittleness Temperature (ASTM D-746); Tensile Values (ASTM D-638); Flexural Modulus (ASTM D-750); Heat Distortion (ASTM-648); Low Temperature Impact (ARM-STD).

POWDER COAT FINISH
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In addition, all welds shall be protectively coated with ZRP, a zinc rich primer that forms a rust-resistant barrier layer over each weld prior to application of the powder coating. The powder coating shall have a super tough finish with maximum exterior durability and will have superior adhesion characteristics. Typical characteristics are: 3.0 - 5.0 mil thickness and oven cured between 375 to 425 degrees Fahrenheit. Pencil Hardness H (ASTM D-3363), Impact (ASTM D-2794-69), Wedge Bend (ASTM D-522-88), Adhesion (Cross Hatch ASTM D-3359 & Knife Scratch ASTM D-2197), Environmental (Stain Resistance ASTM D-1308, Humidity ASTM D-2247 - 87, Salt Spray ASTM B-117 & Fadometer 300 hrs with no loss of gloss), Over-bake Stability 100% at 400 degrees Fahrenheit.

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SPECIFICATIONS
GAME TIME® has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.
□ All equipment should be installed on a soft, resilient, energy-absorbing ground surface. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT. A fall on a hard surface can result in serious injury to the equipment user.

□ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.

□ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.

□ Equipment should be placed to eliminate conflicting traffic patterns.

□ Test overall stability and rigidity of all play equipment. Check for proper assembly, installation and ground anchoring.

□ Check for and repair damage caused by wear or vandalism, a major factor in injury-causing situations.

□ GAMETIME® PROVIDES ITS CUSTOMERS WITH COMPLETE SPECIFICATION SHEETS AND INSTALLATION INSTRUCTIONS. THE SPECIFICATION SHEET CONTAINS THE LISTING OF EVERY PART USED IN A PIECE OF EQUIPMENT AND SHOULD BE KEPT IN THE CUSTOMER’S FILES FOR ACCURATE REFERENCE WHEN REPLACEMENT PARTS ARE NEEDED.

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□ Proper maintenance of GAMETIME® equipment requires regular tightening of all bolts, nuts, and set screws.

□ All equipment should be free of rust and repainted whenever necessary to deter rusting.

□ Regular checking of all parts, castings, etc., should be made. If a part is broken or worn it should be replaced immediately.

□ Check for loose spring castings and tighten.

□ A soft, resilient surface should be placed under all equipment, extending at least six feet in all directions surrounding the equipment. NEVER INSTALL PLAY EQUIPMENT ON CONCRETE OR ASPHALT.
NOTES:
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed Installer Instructions in the installation booklet; follow all the instructions during assembly.
2. Dig ground holes per Ground Plan. See system topview for quantity.
3. Attach deck to uprights using (1) Detail 030 per upright.
4. Loctite (supplied by others) should be used on all threaded hardware.
5. When decks are at the same height as shown in Assembly Drawing, fasten together using (2) Detail 031.

NOTE: Remove vinyl from the two inside holes, with 1/2" bit.

ASSEMBLY DRAWING

TOP VIEWS

80000

80001

PARTS LIST

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<td>804556*</td>
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<td>3/8&quot; Lockwasher</td>
<td>10</td>
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<tr>
<td>3/8&quot; Flatwasher (1 1/4&quot; O.D.)</td>
<td>10</td>
<td>8</td>
<td>817424*</td>
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Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.
Note: Hole Depths Indicated on All Ground Plans are Measured From The Finished Surface. See Detail 032. All Footing Dimensions are Based on Level Finished Surface.

Concrete Required
.10 Cubic Yards [.07 cm]
Per Upright Ground Hole

GROUND PLANS
DETAILS -for- 80000 & 80001

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

NOTE: After assembly is complete, peen tee-nuts and flatwashers to match radius of pipe.

*D/32" x 1 1/2" P.B.H.C.S. (810053)
3/8" LOCK WASHER (817334)
3/8" FLAT WASHER (817424)

* NOTE:
Bolts should be torqued from 20-25 ft. lbs. for proper installation.

* NOTE:
After assembly is completed, peen flatwashers to match radius of upright.

SHOCK ABSORBING MATERIAL

"A"

1 1/16" [2.70 cm]
1 5/16" [3.33 cm]
1 5/8" [4.13 cm]
1 7/8" [4.83 cm]
2 3/8" [6.03 cm]
3 1/2" [8.89 cm]
5" [12.70 cm]

TRACK & SWINGS
5" [12.70 cm]
2'-0" [60.96 cm]

TREE SCAPES
5" [12.70 cm]
4'-0" [121.92 cm]

SHOCK ABSORBING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

NOTE:
-SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
-SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI
**INSTALLATION INSTRUCTIONS**

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

---

**TOP VIEW**

---

**ASSEMBLY DRAWING**

---

**PARTS LIST**

<table>
<thead>
<tr>
<th>REF. NO.</th>
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<td>Platform</td>
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<td>1</td>
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<tr>
<td></td>
<td>3/8&quot; x 3/4&quot; P.B.H.C.S. w/Patch</td>
<td>5</td>
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<tr>
<td></td>
<td>3/8&quot; Lockwasher</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>3/8&quot; Flatwasher (1-1/4&quot; O.D.)</td>
<td>2</td>
<td>2</td>
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<tr>
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<td>3/8&quot; Tee -Nut (Spanner)</td>
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<td>5</td>
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*Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

**Warning:** During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

**Note:** Loctite (supplied by others) should be used on all threaded hardware.
CONCRETE REQUIRED:
.10 CUBIC YARDS
[0.08 CUBIC METERS]

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.
DETAILS -for-
80656 & 80657

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: After assembly is complete, peen tee-nuts and flatwashers to match radius of pipe.

<table>
<thead>
<tr>
<th>SHOCK ABSORBING MATERIAL</th>
<th>CONCRETE</th>
<th>BRICK OR EQUIVALENT</th>
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<tr>
<td>&quot;A&quot;</td>
<td>&quot;B&quot;</td>
<td></td>
</tr>
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</table>

VARIES (REFER TO OVERALL UNIT GROUND PLAN)

DIMENSIONED TO TOP OF BRICK OR EQUIVALENT

NOTES:
- Sloped footing is a requirement of European Standard EN1176-1 Only
- Suggested minimum concrete rating: 3000 psi

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.
INSTALLATION
INSTRUCTIONS

Note: Assemble parts as shown in the Assembly Drawing. Refer to the assembly details for the specific hardware required in each connection.

1. Before assembling this equipment, read the enclosed Installer Instructions in the installation booklet; follow all the Instructions during assembly.

TOP VIEW

ASSEMBLY DRAWING

PARTS LIST

<table>
<thead>
<tr>
<th>REF NO.</th>
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<td>Filler/Kick Plate</td>
<td>1</td>
<td>139253</td>
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<tr>
<td>3/8&quot; x 1 1/4&quot; P.B.H.C.S. w/Patch</td>
<td>4</td>
<td>812051*</td>
<td></td>
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<tr>
<td>3/8&quot; Lockwasher</td>
<td>12</td>
<td>817334*</td>
<td></td>
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<tr>
<td>3/8&quot; x 1&quot; P.B.H.C.S. w/Patch</td>
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<td>812050*</td>
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</tr>
<tr>
<td>3/8&quot; Flatwasher (1 1/4&quot; O.D.)</td>
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<tr>
<td>3/8&quot; Hex Nut</td>
<td>8</td>
<td>804053*</td>
<td></td>
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</tbody>
</table>

Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Loctite (supplied by others) should be used on all threaded hardware.
DETAILS -for-
80687

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.
INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed Installer Instructions in the Installation Booklet; follow all the instructions during assembly.
2. Assemble parts as shown in the Assembly Drawing. Refer to the assembly details for the specific hardware required in each connection.
3. Loctite (supplied by others) should be used on all non-patch hardware.
4. When Decks are at the same height shown in Assembly Drawing, fasten together using Detail 031. Note: Remove vinyl from the two inside holes, ream with 1/2" bit.
SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1.

CONCRETE REQUIRED: .39 CUBIC YARDS [.30 CUBIC METERS]

GROUND PLAN

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURE FROM THE FINISHED SURFACE. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

<table>
<thead>
<tr>
<th>ITEM</th>
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<th>QTY</th>
<th>PART NUMBER</th>
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<td>FILLER/KICKPLATE</td>
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<td>3</td>
<td>HANDHOLD</td>
<td>1</td>
<td>207648</td>
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<tr>
<td>4</td>
<td>HARDWARE COMPLETE</td>
<td>1</td>
<td>177007</td>
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<tr>
<td>5</td>
<td>3/8&quot; x 1 1/2&quot; P.B.H.C.S.</td>
<td>12</td>
<td>810053</td>
</tr>
<tr>
<td>6</td>
<td>3/8&quot; LOCK WASHER</td>
<td>24</td>
<td>817334</td>
</tr>
<tr>
<td>7</td>
<td>3/8&quot; FLAT WASHER (1 1/4&quot; O.D.)</td>
<td>20</td>
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</tr>
<tr>
<td>8</td>
<td>3/8&quot; x 1&quot; P.B.H.C.S. w/PATCH</td>
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<td>812050</td>
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<td>9</td>
<td>3/8&quot; HEX NUT</td>
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<td>10</td>
<td>3/8&quot; x 3/4&quot; P.B.H.C.S. w/PATCH</td>
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<tr>
<td>11</td>
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</tr>
</tbody>
</table>

Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete. Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
80729

IMPORTANT

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Locktite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peen tee-nuts and flat washers to match radius of pipe.

0 INCH
0 CM 1 2 3 4 5 6

3/8" x 1 1/2" P.B.H.C.S. (810053)

3/8" LOCK WASHER
(817334)

3/8" FLAT WASHER
(1 1/4" O.D.) (817424)

*Note:
Bolts should be torqued from 20-25 ft. lbs. for proper installation.

*Note:
After assembly is completed, peen flat washers to match radius of upright.

030

3/8" x 3/4" P.B.H.C.S.
with PATCH (812052)

3/8" LOCK WASHER
(817334)

3/8" FLAT WASHER
(1 1/4" O.D.) (817424)

3/8" T-NUT (804556)

031

DIAM. "A"
(PIPE SIZE)

DIAM. "B"
(FOOTING SIZE)

1 1/16" [2.70 cm]
1 1/2" [35.56 cm]
1 5/16" [3.33 cm]
1 1/2" [35.56 cm]
1 5/8" [4.13 cm]
1 1/2" [35.56 cm]
1 7/8" [4.83 cm]
1 1/2" [35.56 cm]
2 3/8" [6.03 cm]
1 1/2" [35.56 cm]
3 1/2" [8.89 cm]
1 3/4" [45.72 cm]
5" [12.70 cm]
1 3/4" [45.72 cm]

Track Ride & Swings

5" [12.70 cm]
2'-0" [60.96 cm]

Tree Scape

5" [12.70 cm]
4'-0" [121.92 cm]

Shock absorbing properties of surfacing materials vary. If you determine that less than 1'-0" [30.48 cm] of surfacing is required, make up the difference in elevation with earth, before applying surfacing.

032

Notes:
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI
DETAILS -for-
80729

IMPORTANT

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peen tee-nuts and flat washers to match radius of pipe.

3/8" HEX NUT (804053)
3/8" LOCKWASHER (817334)
3/8" FLAT WASHER (1 1/4" O.D.) (817424)
3/8" x 1" P.B.H.C.S. w/PATCH (812050)
FILLER PLATE
DECK

3/8" LOCKWASHER (817334)
3/8" x 1 1/4" P.B.H.C.S. w/PATCH (812051)
UPRIGHT
HANDHOLD OR PIPE CONNECTOR

3/8" FLAT WASHER (1 1/4" O.D.) (817424)
3/8" T-NUT (804556)
3/8" LOCKWASHER (817334)
3/8" x 3/4" P.B.H.C.S. w/PATCH (812052)
DECK
FILLER PLATE

133
405
423
'S' HORIZONTAL LOOP LADDER

INSTALLATION

DISTANCE FROM PLATFORM SURFACE TO FINISHED SURFACE MUST NOT EXCEED 3'-0" [91.44cm]

ATTACHMENTS

DISTANCE FROM PLATFORM SURFACE TO FINISHED SURFACE MUST NOT EXCEED 3'-0" [91.44cm]

LINKS

INSTALLATION INSTRUCTIONS

Note: Assemble parts as shown in the Assembly Drawing. Refer to the assembly details for the specific hardware required in each connection.

1. Before assembling this equipment, read the enclosed Installer Instructions in the installation booklet; follow all the instructions during assembly.

ASSEMBLY DRAWINGS
Note: Hole Depths Indicated on All Ground Plans are Measured From The Finished Surface. See Detail 032. All Footing Dimensions are Based on Level Finished Surface.
TOP VIEWS

PARTS LIST

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<th>PART NUMBER</th>
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<td>8 8 812050*</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; Lockwasher</td>
<td>8 8 817334*</td>
<td></td>
</tr>
</tbody>
</table>

Unless Otherwise Specified, All Units of Measure are Each
* included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Loctite (supplied by others) should be used on all threaded hardware.
DETAILS -for- 81488 & 81493

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: After assembly is complete, peen tee-nuts and flatwashers to match radius of pipe.

3/8" LOCK WASHER (817334)
3/8" x 1" P.B.H.C.S. w/PATCH (812050)
CLIMBER

UPRIGHT
**INSTALLATION INSTRUCTIONS**

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

**ASSEMBLY DRAWING**

**TOP VIEW**

**PARTS LIST**

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<thead>
<tr>
<th>REF NO.</th>
<th>DESCRIPTION</th>
<th>NO. REQ'D</th>
<th>PART NUMBER</th>
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<tr>
<td>3/8&quot; Lockwasher</td>
<td>4</td>
<td>817334*</td>
<td></td>
</tr>
<tr>
<td>3/8&quot; Flatwasher</td>
<td>4</td>
<td>817424*</td>
<td></td>
</tr>
</tbody>
</table>

Unless Otherwise Specified, All Units of Measure are Each Included in Hardware

**Warning:** During installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Loctite (supplied by others) should be used on all threaded hardware.
**DETAILS - for-**

**81699**

**IMPORTANT**

**TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END**

**PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED**

**SMOOTH AND TREATED TO PREVENT CORROSION.**

**NOTE:** **AFTER ASSEMBLY IS COMPLETE, PEE N TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.**

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**3/8" FLAT WASHER (817424)**

**3/8" LOCK WASHER (817334)**

**3/8" x 1" P.B.H.C.S. w/ PATCH (812050)**

**BONGOS**

**DRILL 5/8" HOLE USING 4 DRILL POINTS LOCATED ON SIDE MARKED A**
INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

Parts List

<table>
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<th>PART NUMBER</th>
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<td>2</td>
<td>LEAF BRACKET</td>
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<tr>
<td></td>
<td>3/8” x 1 1/4” P.B.H.C.S. w/PATCH</td>
<td>2</td>
<td>812051*</td>
</tr>
<tr>
<td></td>
<td>3/8” LOCK WASHER</td>
<td>6</td>
<td>817334*</td>
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<td>3/8” FLAT WASHER</td>
<td>6</td>
<td>817410*</td>
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</table>

Unless Otherwise Specified, All Units of Measure are Each * Included in Hardware

Warning: During installation, Hardware And Small Parts Are Choking Hazards For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
DETAILS -for-
81766

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet, follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

THE DISTANCE BETWEEN THE LEAF AND THE DECK SHALL NOT EXCEED 2 1/4''

4'-1 1/4'' [125.11 cm] 8'-2 1/4'' [249.59 cm]

4'-6 1/8'' [137.55 cm] 4'-8 1/8'' [137.55 cm]

0'-2 1/4'' [5.87 cm]

TOP VIEWS
NOTE: HOLE DEPTHS INDICATED ON
ALL GROUND PLANS ARE MEASURED
FROM THE FINISHED SURFACE. SEE
DETAIL 032. ALL FOOTING DIMENSIONS
ARE BASED ON LEVEL FINISHED
SURFACE.

CONCRETE REQUIRED
0.33 CUBIC YARDS
[0.25 CUBIC METERS]

GROUND PLANS
## Parts List

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<th>REF.</th>
<th>DESCRIPTION</th>
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<th>90151</th>
<th>PART NUMBER</th>
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</thead>
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<td>1</td>
<td>L1F9JE</td>
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<tr>
<td>2</td>
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<td>1</td>
<td>L1F7SY</td>
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<td>HANDHOLD</td>
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<tr>
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<td>3/8&quot; x 3/4&quot; P.B.H.C.S. w/ PATCH</td>
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<td>2</td>
<td>812052*</td>
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<td>8</td>
<td>3/8&quot; x 1&quot; P.B.H.C.S. w/ PATCH</td>
<td>18</td>
<td>32</td>
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<tr>
<td>9</td>
<td>3/8&quot; x 1 1/4&quot; P.B.H.C.S. w/ PATCH</td>
<td>12</td>
<td>24</td>
<td>812051*</td>
</tr>
<tr>
<td>10</td>
<td>3/8&quot; FLAT WASHER (1 1/4&quot; O.D.)</td>
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<td>2</td>
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* Included in Hardware

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For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

**Note:** Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
**DETAILS -for- 90150 & 90151**

**IMPORTANT**

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

**Note:** Loctite (supplied by others) should be used on all threaded hardware.

**Note:** After assembly is complete, peel tee-nuts and flat washers to match radius of pipe.

---

**SHOCK ABSORBING MATERIAL**

3.5" [8.89 cm] MAX.

45° MIN.

**VARIES (REFER TO OVERALL UNIT GROUND PLAN)**

**DIMENSIONED TO TOP OF BRICK OR EQUIVALENT**

**CONCRETE**

**BRICK OR EQUIVALENT**

**EARTH**

---

**NOTES:**

-SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN176-1 ONLY

-SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

---

**SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.**

---

**DIA. "A" (PIPE SIZE)**

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<th>DIA. &quot;B&quot; (FOOTING SIZE)</th>
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<td>1.7/8&quot; [4.83 cm]</td>
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<td>2.3/8&quot; [6.03 cm]</td>
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**TRACK RIDE & SWINGS**

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---

**UPRIGHT**

**HANDHOLD**

3/8" LOCK WASHER (817334)

3/8" x 1 1/4" P.B.H.C.S. w/ PATCH (812051)

3/8" FLAT WASHER (817410)

---

**LEAF STEP**

**LEAF BRACKET**

3/8" FLAT WASHER (817410)

3/8" LOCK WASHER (817334)

3/8" x 1" P.B.H.C.S. w/ PATCH (812050)
DETAILS -for-
90150 & 90151

**IMPORTANT**

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peel tee-nuts and flat washers to match radius of pipe.

---

ENCLOSURE

3/8" T-NUT (804556)

3/8" LOCK WASHER (817334)

3/8" FLAT WASHER (1 1/4" O.D.) (817424)

3/8" x 3/4" P.S.H.C.S. w/PATCH (812052)
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
CONCRETE REQUIRED
.12 CUBIC YARDS
[.10 CUBIC METERS]

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 005. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

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**Note:** Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
90249-90260

IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

DIA. "A" (PIPE SIZE) | DIA. "B" (FOOTING SIZE)
--- | ---
1 1/16" [2.70 cm] | 1-2" [35.56 cm]
1 5/16" [3.33 cm] | 1-2" [35.56 cm]
1 5/8" [4.13 cm] | 1-2" [35.56 cm]
1 7/8" [4.83 cm] | 1-2" [35.56 cm]
2 3/8" [6.03 cm] | 1-2" [35.56 cm]
3 1/2" [8.89 cm] | 1-6" [45.72 cm]
5" [12.70 cm] | 1-6" [45.72 cm]

TRACK RIDE & SWINGS
5" [12.70 cm] | 2'-0" [60.96 cm]

TREE SCAPE
5" [12.70 cm] | 4'-0" [121.92 cm]

NOTES:

- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

ENCLOSURE
3/8" T-NUT (804556)

DECK
3/8" LOCK WASHER
(817334)
3/8" x 3/4" P.B.H.C.S. w/PATCH (812052)

MOUNTING PLATE
COUNTERSINK HOLE TO RECEIVE BOLT HEAD

5/16" LOCK WASHER
(817330)
5/16" FLAT WASHER (5/8" O.D.) (817406)

PANEL
5/16" T-NUT (SHORT) (804558)

FRAME

PAGE 6
DETAILS -for-
90249-90260

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (Supplied by Others) should be used on all threaded hardware.

Note: After assembly is complete, peen tee-nuts and flatwashers to match radius of pipe.

3/8" T-NUT (804556)

DECK

MOUNTING PLATE

3/8" LOCK WASHER (817334)

3/8" x 1/2" P.B.H.C.S. w/PATCH (812049)
INSTALLATION

INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

4'-6 1/8" [137.55 cm]

0'-9" [22.86 cm]

TOP VIEW
### Parts List

<table>
<thead>
<tr>
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<th>90392</th>
<th>PART NUMBER</th>
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<td>3/8&quot; x 1 1/4&quot; P.B.H.C.S. w/PATCH</td>
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*Unless Otherwise Specified, All Units of Measure are Each

*Included in Hardware

**Warning:** During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

**Note:** Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
**Note:** Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
90354 & 90392

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

0 INCH

0 CM 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

3/8" x 1 1/4"
P.B.H.C.S. w/PATCH (812051)

SEAT

3/8" LOCK WASHER (817334)

3/8" HEX NUT (804053)

L-BRACKET

STORE ENCLOSURE

120

3/8" x 1 1/2"
P.B.H.C.S. w/PATCH (812053)

3/8" LOCK WASHER (817334)

3/8" T-NUT (804556)

687

(*) = T, W, G or K

UPRIGHT

TRU-LOC PANEL ATTACHMENT (*03861)

3/8" LOCK WASHER (817334)

3/8" x 1" P.B.H.C.S. w/PATCH (812050)

3/8" x 1 3/4" HEX HEAD BOLT (801006)

*NOTE: HEX BOLT SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.
INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

DECK HEIGHT CHART
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<tr>
<th>DECK HEIGHT</th>
<th>CLIMBER ORIENTATION</th>
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<tr>
<td>3'-6&quot;</td>
<td>BOTTOM B</td>
</tr>
<tr>
<td>4'-0&quot;</td>
<td>BOTTOM B</td>
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<tr>
<td>4'-6&quot;</td>
<td>BOTTOM B</td>
</tr>
<tr>
<td>5'-0&quot;</td>
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<td>5'-6&quot;</td>
<td>BOTTOM A</td>
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<tr>
<td>6'-0&quot;</td>
<td>BOTTOM A</td>
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TOP VIEWS
<table>
<thead>
<tr>
<th>DECK HEIGHTS</th>
<th>DIMENSION 'A'</th>
<th>DIMENSION 'B'</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'-6&quot;</td>
<td>6'-11 1/4&quot; [211.39cm]</td>
<td>7'-0 1/4&quot; [214.06cm]</td>
</tr>
<tr>
<td>4'-0&quot;</td>
<td>6'-8 3/16&quot; [203.73cm]</td>
<td>6'-9 11/16&quot; [207.50cm]</td>
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<tr>
<td>4'-6&quot;</td>
<td>6'-4 5/8&quot; [194.56cm]</td>
<td>6'-5 3/4&quot; [197.51cm]</td>
</tr>
<tr>
<td>5'-0&quot;</td>
<td>6'-0 3/8&quot; [183.87cm]</td>
<td>6'-1 13/16&quot; [197.48cm]</td>
</tr>
<tr>
<td>5'-6&quot;</td>
<td>5'-7 3/16&quot; [170.63cm]</td>
<td>5'-8 1/2&quot; [173.93cm]</td>
</tr>
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<td>6'-0&quot;</td>
<td>5'-1&quot; [155.00cm]</td>
<td>5'-2 3/4&quot; [159.32cm]</td>
</tr>
</tbody>
</table>

EXISTING UPRIGHTS

DIAM 'A'

DIAM 'B'

4'-1" [124.46 cm]

1'-2 1/2" [36.78 cm]

1'-7 13/16" [50.31 cm]

Ω1'-2" [35.56 cm] x

2'-8" [78.20 cm] DEEP

(2 REQUIRED)

CONCRETE REQUIRED
12 CUBIC YARDS
[10 CUBIC METERS]

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

GROUND PLAN

Parts List

<table>
<thead>
<tr>
<th>REF.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
<th>PART NUMBER</th>
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<td>SMASHED FOOTBUCK</td>
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<td>3</td>
<td>MOUNTING BRACKET WELD ASS'Y</td>
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<td>3/8&quot;</td>
<td>x 1 1/4&quot; P.B.H.C.S. w/PATCH</td>
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<td>812051*</td>
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<tr>
<td>3/8&quot;</td>
<td>LOCK WASHER</td>
<td>6</td>
<td>817334*</td>
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<tr>
<td>3/8&quot;</td>
<td>FLAT WASHER</td>
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<td>3/8&quot;</td>
<td>T-NUT</td>
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<td>FLAT WASHER (1 1/4&quot; O.D.)</td>
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</table>

Unless Otherwise Specified, All Units of Measure are Each Included in Hardware

Warning: During Installation, Hardware and Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS for 90369

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt ends protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, use tee-nuts and flat washers to match radius of pipe.

---

**Dia. "A"**
- (Pipe Size)
- (Foot Size)

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Foot Size</th>
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<tr>
<td>1 1/16&quot; [2.70 cm]</td>
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<tr>
<td>1 5/16&quot; [3.33 cm]</td>
<td>1-2&quot; [35.56 cm]</td>
</tr>
<tr>
<td>1 5/8&quot; [4.13 cm]</td>
<td>1-2&quot; [35.56 cm]</td>
</tr>
<tr>
<td>1 7/8&quot; [4.83 cm]</td>
<td>1-2&quot; [35.56 cm]</td>
</tr>
<tr>
<td>2 3/8&quot; [6.03 cm]</td>
<td>1-2&quot; [35.56 cm]</td>
</tr>
<tr>
<td>3 1/2&quot; [8.89 cm]</td>
<td>1-6&quot; [45.72 cm]</td>
</tr>
<tr>
<td>5&quot; [12.70 cm]</td>
<td>1-6&quot; [45.72 cm]</td>
</tr>
</tbody>
</table>

**Track Ride & Swings**
- 5" [12.70 cm] | 2-0" [50.86 cm] |

**Tree Scape**
- 5" [12.70 cm] | 4-0" [121.92 cm] |

---

NOTES:
- Sloped footing is a requirement of European standard EN 1176-1 only.
- Suggested minimum concrete rating: 3000 PSI

---

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.
IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF Flush, FILED SMOOTH AND TREATED TO PREVENT CORROSION.
NOTE: LOCKTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.

NOTE: IN ALL DECK HEIGHTS CLIMBER ORIENTATION INDICATOR FACES GROUND. REFERENCE DECK HEIGHT CHART.
INSTALLATION

INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

DISTANCE FROM TOP RUNG TO FINISHED SURFACE MUST NOT EXCEED 3'-0" [91.44 cm]

ASSEMBLY DRAWING
90390

0'-5 1/8" [13.09 cm]

4'-6 1/8" [137.55 cm]

TOP VIEW
**GROUND PLAN**

1'7 15/16" [50.63 cm]

EXISTING UPRIGHTS

1'-2 9/16" [36.91 cm]

Ô1'-2" [35.56 cm] x 2'-6" [77.20 cm] DEEP (2 REQUIRED)

4'-1" [124.46 cm]

**CONCRETE REQUIRED**
12 CUBIC YARD
[.09 CUBIC METERS]

**NOTE:** HOLDE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.°

---

**Parts List**

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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

**Warning:** During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed. Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment And Dispose/Save Them In A Secure Location.

**Note:** Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
**Note:** Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
90388, 90389, 90390 & 90391

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.
Note: After assembly is complete, peen tee-nuts and flat washers to match radius of pipe.

<table>
<thead>
<tr>
<th>DIA. &quot;A&quot; (Pipe Size)</th>
<th>DIA. &quot;B&quot; (Footing Size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 1/16&quot; [2.70 cm]</td>
<td>1-1/2&quot; [35.56 cm]</td>
</tr>
<tr>
<td>1 1/4&quot; [3.33 cm]</td>
<td>1-1/2&quot; [35.56 cm]</td>
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<td>1 5/8&quot; [4.13 cm]</td>
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</tr>
<tr>
<td>3 1/2&quot; [8.89 cm]</td>
<td>1-1/2&quot; [45.72 cm]</td>
</tr>
<tr>
<td>5&quot; [12.70 cm]</td>
<td>1-1/2&quot; [45.72 cm]</td>
</tr>
</tbody>
</table>

TRACK RIDE & SWINGS
5" [12.70 cm] 2'-0" [60.96 cm]

TREE SCAPE
5" [12.70 cm] 4'-0" [121.92 cm]

NOTES:
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

NOTE:
BOLT SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.

3/8" LOCK WASHER (817334)
3/8" X 2" P.B.H.C.S. W/PATCH (812055)
TRU-LOC (*03650)
ALUM. PIN (203568) (* = A OR Z)
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
3. If the white plug underneath slide is not drilled, drill a 3/16" diameter hole in center after installation.

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<tr>
<th>PART NO.</th>
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<td>0'-4 3/4&quot; (12 cm)</td>
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<td>0'-10 3/4&quot; (27 cm)</td>
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<td>0'-7&quot; (18 cm)</td>
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<td>90509 (5'-0&quot;)</td>
<td>0'-8 3/4&quot; (22 cm)</td>
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<tr>
<td>90510 (6'-0&quot;)</td>
<td>0'-11&quot; (28 cm)</td>
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EXIT HEIGHT CHART -for- 3'-0" TO 4'-0"

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<td>CSA</td>
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EXIT HEIGHT CHART -for- 5'-0" TO 8'-0"

<table>
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<tr>
<th>STANDARD</th>
<th>EXIT HEIGHT from SURFACING</th>
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<tr>
<td>ASTM</td>
<td>7&quot; TO 15&quot;</td>
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<tr>
<td>CSA</td>
<td>175mm TO 380mm</td>
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<tr>
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NOTE:
HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

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<td>4'-10 7/16&quot; [148 cm]</td>
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<tr>
<td>90508</td>
<td>5'-4 1/8&quot; [163 cm]</td>
<td>6'-0 7/8&quot; [185 cm]</td>
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<tr>
<td>90509</td>
<td>6'-9 1/8&quot; [206 cm]</td>
<td>7'-4 1/8&quot; [224 cm]</td>
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<tr>
<td>90510</td>
<td>8'-3 3/8&quot; [252 cm]</td>
<td>8'-9 3/16&quot; [267 cm]</td>
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<td>6&quot; DUELING WAVE SLIDE</td>
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<td>DOUBLE ZIP SLIDE HOOD</td>
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<td>3/8&quot; x 1 3/4&quot; P.B.H.C.S. w/PATCH</td>
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<td>3/8&quot; x 2 1/4&quot; P.B.H.C.S. w/PATCH</td>
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<td>3/8&quot; x 2 3/4&quot; P.B.H.C.S. w/PATCH</td>
<td>2</td>
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<tr>
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<td>3/8&quot; x 3&quot; HEX HEAD BOLT</td>
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<tr>
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<td>3/8&quot; FLAT WASHER (1 1/4&quot; O.D.)</td>
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</tr>
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<td>6&quot; EXTENSION</td>
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
NOTE: SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY. SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

### DIA. "A" (PIPE SIZE) | DIA. "B" (FOOTING SIZE)
---|---
1 1/16" [2.70 cm] | 1'-2" [35.56 cm]
1 5/16" [3.33 cm] | 1'-2" [35.56 cm]
1 5/8" [4.13 cm] | 1'-2" [35.56 cm]
1 7/8" [4.83 cm] | 1'-2" [35.56 cm]
2 3/8" [6.03 cm] | 1'-2" [35.56 cm]
3 1/2" [8.89 cm] | 1'-6" [45.72 cm]
5" [12.70 cm] | 1'-6" [45.72 cm]

### TRACK RIDE & SWINGS

- 5" [12.70 cm], 2'-0" [60.96 cm]
- TREE SCAPE

- 5" [12.70 cm], 4'-0" [121.92 cm]

---

**LEG (PIPE Dia.)** | **BOLT REQUIRED**
---|---
1 5/16" [3.3 cm] | 3/8" x 2" HEX HEAD (801007)
1 5/8" [4.1 cm] | 3/8" x 2 1/2" HEX HEAD (801009)
1 7/8" [4.7 cm] | 3/8" x 3" HEX HEAD (801011)
2 3/8" [6.0 cm] | 3/8" x 3 1/2" HEX HEAD (801013)
2 7/8" [7.3 cm] | 3/8" x 4" HEX HEAD (801015)

**SEE CHART FOR SIZE**

- 3/8" HEX NUT (804053)
- 3/8" LOCK WASHER (817334)
- 3/8" FLAT WASHER (817410)

---

**FOOTBUCK**

- 3/8" x 3/4" P.B.H.C.S. W/PATCH (812052)

---

**SLIDE**

- 3/8" LOCK WASHER (817334)
DETAILS -for-
90507, 90508, 90509 & 90510

IMPORTANT

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peen tee-nuts and flatwashers to match radius of pipe.
CONToured Seat Panel

INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

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<thead>
<tr>
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<th>PART NUMBER</th>
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<td>3/8&quot; x 2&quot; P.B.H.C.S. w/PATCH</td>
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<td>3/8&quot; LOCK WASHER</td>
<td>4</td>
<td>817334*</td>
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<td>3/8&quot; T-NUT</td>
<td>2</td>
<td>804556*</td>
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<td>ALUM. PIN</td>
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<td>203568*</td>
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
90610

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTAILMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

ENCLOSURE

203568

3/8" T-NUT (804556)

3/8" LOCK WASHER
(817334)

3/8" x 3/4" P.B.H.C.S.
(1 1/4" O.D.) (817424)

3/8" x 3/4" P.B.H.C.S.
WITH PATCH (812052)

3/8" FLAT WASHER

087

DECK

Upright

ALUM. PIN (203568)

( * = A OR Z)

3/8" LOCK WASHER
(817334)

3/8" x 2" P.B.H.C.S.
WITH PATCH (812055)

TRU-LOC
(53650)

RUNG

PAGE 2
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet, follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
<table>
<thead>
<tr>
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<td>ANIMAL TRACKERS ROTOGEN</td>
<td>1</td>
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<td><strong>HARDWARE COMPLETE</strong></td>
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<td>6</td>
<td>3/8&quot; FLAT WASHER</td>
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<td>817410*</td>
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<td>7</td>
<td>3/8&quot; BARREL NUT</td>
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<td>804804*</td>
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<td>9</td>
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

**Warning:** During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

**Note:** Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
DETAILS -for-
90837

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FLAT.
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

**NOTE:** HEX BOLTS SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.

3/8" T-NUT (804558)

PANEL ATTACHMENT
TRU-LOCK (**3661)

3/8" LOCK WASHER (817334)

3/8" x 1 3/4" HEX
HEAD BOLT (801006)

3/8" x 1" P.B.H.C.S.
W/PATCH (812065)

(**=B,T,W,G, or K)

822

3/8" BARREL NUT
(604904)

HDPE PANEL

ROTGEN

3/8" LOCK WASHER
(817334)

3/8" FLAT WASHER
(817410)

3/8" x 1 1/2"
P.B.H.C.S. W/PATCH
(812053)

862
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

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<td>2</td>
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<tr>
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ASSEMBLY VIEW

TOP VIEW

0'-5 1/8" [13.08 cm]

4'-6 1/8" [137.55 cm]
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<td>2</td>
<td>804556*</td>
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</table>

Unless Otherwise Specified, All Units of Measure are Each

* Included in Hardware
** Included in Timber Package

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
91151

**IMPORTANT**
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

**Note:** Loctite (supplied by others) should be used on all threaded hardware.

**Note:** After assembly is complete, peel tee-nuts and flat washers to match radius of pipe.

*NOTE:*
Bolt should be torqued from 20-25 ft. lbs. for proper installation.

3/8" LOCK WASHER
(817334)

3/8" x 2" P.B.H.C.S.
w/Patch (812055)

TRU-LOC
(*03650)

RUNG

ALUM. PIN (203568)
(* = A OR Z)

5/16" T-NUT (804556)

5/16" FLAT WASHER
(5/8" O.D.) (817406)

5/16" x 2" P.B.H.C.S.
w/Patch (812046)

ENCLOSURE

DECK

3/8" FLAT WASHER
(1 1/4" O.D.) (817424)

3/8" LOCK WASHER
(817334)

3/8" FLAT WASHER
(5/8" O.D.) (817406)

5/16" x 1 3/4"
P.B.H.C.S. w/Patch
(812047)

5/16" FLAT WASHER
(5/8" O.D.) (817406)
INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

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<td>90031</td>
<td>1'-0&quot; [30.55 cm]</td>
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4'-8 7/8" [144.42 cm]

5'-11 1/8" [180.59 cm]

8'-3 5/8" [252.98 cm]

TOP VIEWS
TIMBER PACKAGE 207454

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<th>DESCRIPTION</th>
<th>PART NUMBER</th>
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<td>7</td>
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<td>8</td>
<td>TIMBER 13 (TUDOR BROWN)</td>
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TIMBER LOCATION
91178 SHOWN

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TIMBER PACKAGE 207455

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</tr>
<tr>
<td>8</td>
<td>TIMBER 13 (TUDOR BROWN)</td>
<td>207197</td>
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TIMBER LOCATION
91179 SHOWN
CONCRETE REQUIRED
22 Cubic Yards
[ 17 Cubic Meters]

NOTE: Hole depths indicated on all ground plans are measured from the finished surface. See Detail 032. All footing dimensions are based on level finished surface.
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware
** Included in Timber Package

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children, Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Pin Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
91178, 91179, 91180

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt ends protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.
Note: After assembly is complete, peel tee-nuts and flat washers to match radius of pipe.

SHOCK ABSORBING MATERIAL

"A"

1'-0"
[30.48 cm]

3.9" [10.00 cm] MAX.

45' MIN.

VARIES
(REFER TO OVERALL UNIT GROUND PLAN)

CONCRETE

BRICK OR EQUIVALENT

DIMENSIONED TO TOP OF BRICK OR EQUIVALENT

NOTES:
SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY -SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

DIA. "A"
(PIPE SIZE)

1 1/16" [2.70 cm]
1 5/16" [3.33 cm]
1 5/8" [4.13 cm]
1 7/8" [4.83 cm]
2 3/8" [6.03 cm]
3 1/2" [8.89 cm]
5" [12.70 cm]

DIA. "B"
(FOOTING SIZE)

1'-2" [35.56 cm]
1'-2" [35.56 cm]
1'-2" [35.56 cm]
1'-2" [35.56 cm]
1'-2" [35.56 cm]
1'-6" [45.72 cm]
1'-6" [45.72 cm]

TRACK RIDE & SWINGS

5" [12.70 cm]

TREE SCAPE

5" [12.70 cm]

4'-0" [121.92 cm]

3/8" T-NUT (804556)

3/8" FLAT WASHER
(1 1/4" O.D.) (817424)

3/8" LOCK WASHER
(817334)

3/8" x 3/4" P.B.H.C.S.
 w/PATCH (812052)

3/8" x 3/4" P.B.H.C.S.
 w/PATCH (812052)

3/8" T-NUT (804556)

PLATFORM

PLATFORM SUPPORT

PAGE 6
IMPORTANT

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peel tee-nuts and flat washers to match radius of pipe.

**NOTE: BOLT SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.**

**TRU-LOC**

ALUM. PIN (203658)  (* = A OR Z *)
DETAILED FOR
91178, 91179, 91180

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

5/16" T-NUT (804555)

5/16" FLAT WASHER (5/8" O.D.) (817406)

5/16" x 2" P.B.H.C.S W/ PATCH (812048)
TRANSFER SYSTEM TIMBERS

1'-0' RISE 91200
2'-0' RISE 91201
2'-6' RISE 91202
3'-0' RISE 91203
4'-0' RISE 91204

INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet, follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

ASSEMBLY DRAWING 91204 SHOWN
TIMBER PACKAGE 207448

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91200 SHOWN

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RIGHT

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TIMBER LOCATION
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PAGE 2
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TIMBER LOCATION
91204 SHOWN
EXISTING UPRIGHTS

91202

4'-13/16" [124.06 cm]

4'-1" [124.46 cm]

5'-9 3/16" [175.73 cm]

91203

4'-9 1/4" [145.49 cm]

6'-3 3/8" [191.46 cm]

4'-1" [124.46 cm]

91204

5'-11 1/2" [181.69 cm]

7'-2 11/16" [220.23 cm]

4'-1" [124.46 cm]

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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware
** Included in Timber Package

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Place Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.

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Unless Otherwise Specified, All Units of Measure are Each  
* Included in Hardware  
** Included in Timber Package  

Warning: During Installation, Hardware And Small Parts Are Choking Hazards  
For Young Children. Store Unused Parts Appropriately Until Assembly is Completed.  
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment  
And Dispose/Save Them In A Secure Location.  
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.  
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
91200, 91201, 91202, 91203 AND 91204

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

--- Diagrams of mechanical components and assembly instructions ---

--- UPRIGHT
"NOTE:
BOLT SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.

--- HANDRAIL BARRIER

--- COATED PLATFORM

--- STEP SECTION

--- DECK

--- 3/8" LOCK WASHER (817334)

--- 3/8" T-NUT (804556)

--- 3/8" x 3/4" P.B.H.C.S. w/PATCH (812052)

--- 3/8" FLAT WASHER (1 1/4" O.D.) (817424)

--- 1/2" T-NUT (804555)

--- 3/8" LOCK WASHER (817334)

--- 3/8" x 2" P.B.H.C.S. w/PATCH (812055)

--- ALUM. PIN (203568)

--- TRU-LOC (*03650) (* = A OR Z)

--- 5/16" FLAT WASHER (5/8" O.D.) (817406)

--- 5/16" x 1 3/4" P.B.H.C.S. w/PATCH (812047)
DETIALS -for-
91200, 91201, 91202, 91203 AND 91204

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTAILMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

---

5/16" T-NUT (804555)

5/16" FLAT WASHER (5/8" O.D.) (817406)

5/16" x 2" P.B.H.C.S. w/PATCH (812046)
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

ASSEMBLY VIEW
91182 SHOWN
TIMBER LOCATION
91184

TIMBER LOCATION
91185

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NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

GROUND PLAN

CONCRETE REQUIRED: .12 CUBIC YARDS
[.10 CUBIC METERS]
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware
** Included in Timber Package

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Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
91223, 91181, 91182, 91183, 91184, 91185

**IMPORTANT**

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed, and treated to prevent corrosion.

*Note: Loctite (supplied by others) should be used on all threaded hardware.*

*Note: After assembly is complete, peen tee-nuts and flat washers to match radius of pipe.*

---

### Shock Absorbing Material

**A**

3.9" [10.00 cm] MAX.

45" MIN.

EARTH

CONCRETE

BRICK OR EQUIVALENT

**VARIES (REFER TO OVERALL UNIT GROUND PLAN)**

**DIMENSIONED TO TOP OF BRICK OR EQUIVALENT**

**NOTES:**

- Sloped footing is a requirement of European Standard EN1176-1 only.
- Suggested minimum concrete rating: 3000 PSI

---

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**TRACK RIDE & SWINGS**

5" [12.70 cm] | 2 1/2" [60.96 cm]

**TREE SCAPE**

5" [12.70 cm] | 4 1/2" [121.92 cm]

---

**Shock Absorbing Properties of Surfacing Materials Vary. If You Determine That Less Than 1" [30.48 cm] of Surfacing Is Required, Make Up the Difference in Elevation With Earth Before Applying Surfacing.**

---

**Enclosure**

**3/8" T-Nut (804556)**

**Deck**

**Mounting Plate**

**3/8" Lock Washer (817334)**

**3/8" x 3/4" P.B.H.C.S. w/ Patch (812052)**

**Leg, See Chart For Size**

**3/8" Hex Nut (804053)**

**See Chart For Size**

**Extension**

---

**032**
DETAILS -for-
91223, 91181, 91182, 91183, 91184 & 91185

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by Others) should be used on all threaded hardware.

Note: After assembly is complete, peen tee-nuts and flat washers to match radius of pipe.
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet; follow all the instructions during installation.

2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
TIMBER LOCATION
91340 (91336 & 91338 SIMILAR)

TIMBER PACKAGE - 211314

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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware
**Included in Timber Package

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
91336, 91337, 91338, 91339, 91340 & 91341

**IMPORTANT**

To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peel Tee-nuts and flat washers to match radius of pipe.

**NOTE:**
Bolt should be torqued from 20-25 ft. lbs. for proper installation.

---

**UPRIGHT**

**MOUNT**

**3/8” LOCK WASHER**  
(817334)

**3/8” x 1 1/4”**  
P.B.H.C.S. w/PATCH  
(812051)

**ENCLOSURE**

**DECK**

**3/8” T-NUT (804556)**

**3/8” FLAT WASHER**  
(1 1/4” O.D.)  
(817424)

**3/8” LOCK WASHER**  
(817334)

**3/8” x 3/4” P.B.H.C.S.**  
w/PATCH (812052)

---

**UPRIGHT**

**MOUNTING PIPE**

**ENCLOSURE**

**3/8” FLAT WASHER**  
(1 1/4” O.D.)  
(817424)

**3/8” x 1 1/2”**  
P.B.H.C.S. w/PATCH  
(812053)

**3/8” LOCK WASHER**  
(817334)

**3/8” LOCK WASHER**  
(817334)

---

**TRU-LOC**  
(*03650)

**3/8” x 2” P.B.H.C.S.**  
w/PATCH (812055)

**ALUM. PIN**  
(203568)

(* = A OR Z)
DETAILS -for-
91336, 91337, 91338, 91339, 91340 & 91341

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peen tee-nuts and flat washers to match radius of pipe.
INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

ASSEMBLY DRAWING
3963RP SHOWN

EXIT HEIGHT CHART

<table>
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<tr>
<th>STANDARD</th>
<th>EXIT HEIGHT from SURFACING</th>
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<tr>
<td>ASTM</td>
<td>7” TO 15”</td>
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<tr>
<td>CSA</td>
<td>175mm TO 380mm</td>
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<tr>
<td>EN</td>
<td>350mm OR LESS</td>
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</table>
1' 2" [35.56 cm] DIA.
2' 6" [76.20 cm] DEEP
5 PLCS

0' 8 1/2" [21.54 cm]

GROUNDP PLAN
3963RP

NOTE: HOLE DEPTHS INDICATED ON ALL
GROUND PLANS ARE MEASURED FROM
THE FINISHED SURFACE. SEE DETAIL
032. ALL FOOTING DIMENSIONS ARE,
BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED
.030 CUBIC YARDS
[.23 CUBIC METERS]
GROUND PLAN
3981RP

NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

CONCRETE REQUIRED
.030 CUBIC YARDS
(.23 CUBIC METERS)
ATTACH 49° TUBE SECTION BY ALIGNING INDEX LINES AT 3 AND 9 O'CLOCK POSITIONS.

FIRST TUBE SECTION ASSEMBLY

ATTACH FIRST 90 DEGREE ELBOW BY ALIGNING INDEX LINES AND THEN ROTATING ELBOW CLOCKWISE 30°, OR THE FULL DISTANCE BETWEEN HOLES UNTIL THE HOLES ALIGN. (COUNTER-CLOCKWISE FOR 3981RP-REVERSE LAYOUT)

SECOND TUBE SECTION ASSEMBLY

ATTACH THE SECOND 90° ELBOW BY ALIGNING INDEX LINES AND THEN ROTATING CLOCKWISE 60°, OR TWO TIMES THE DISTANCE BETWEEN HOLES. (COUNTER-CLOCKWISE FOR 3981RP-REVERSE LAYOUT)

THIRD TUBE SECTION ASSEMBLY

ATTACH THE THIRD 90° ELBOW BY ALIGNING INDEX LINES AND THEN ROTATING CLOCKWISE 60°, OR TWO TIMES THE DISTANCE BETWEEN HOLES. (COUNTER-CLOCKWISE FOR 3981RP-REVERSE LAYOUT)

FOURTH TUBE SECTION ASSEMBLY
ATTACH THE FOURTH 90° ELBOW BY ALIGNING INDEX LINES AND THEN ROTATING CLOCKWISE 45°, OR ONE AND A HALF TIMES THE DISTANCE BETWEEN HOLES. (COUNTER-CLOCKWISE FOR 3981RP-REVERSE LAYOUT)

ALIGN MIDDLE HOLE OF FOOTBUCK MOUNT AND ROTATE 45° CLOCKWISE, OR ONE AND A HALF TIMES THE DISTANCE BETWEEN HOLES. (COUNTER-CLOCKWISE FOR 3981RP-REVERSE LAYOUT)

FIFTH TUBE SECTION ASSEMBLY
ATTACH THE FIFTH 90° ELBOW BY ALIGNING INDEX LINES 180° FROM PREVIOUS CURVE (SAME FOR 3981 RP-REVERSE LAYOUT)

SIXTH TUBE SECTION ASSEMBLY
ATTACH THE 30° ELBOW BY
ALIGNING INDEX LINES THEN
ROTATING CLOCKWISE 45°, OR
ONE AND A HALF THE DISTANCE
BETWEEN HOLES.
(COUNTER-CLOCKWISE FOR
3981RP-REVERSE LAYOUT)

SEVENTH TUBE SECTION ASSEMBLY

ALIGN MIDDLE HOLE OF
FOOTBUCK MOUNT AND
ROTATE 80° COUNTER-
CLOCKWISE, OR TWO TIMES
THE DISTANCE BETWEEN HOLES.
(CLOCKWISE FOR
3981RP-REVERSE LAYOUT)
NOTE: SET EXIT HEIGHT TO FALL BETWEEN RANGE SHOWN IN CHART ON PAGE 1 WHILE STILL ALLOWING DOWNWARD SLOPE FOR WATER DRAINAGE

ATTACH THE EXIT SECTION BY ALIGNING THE 12 AND 6 O'CLOCK POSITIONS WITH THE INDEX LINES THEN ROTATING CLOCKWISE 20°, OR TWO THIRDS TIMES THE DISTANCE BETWEEN HOLES. (COUNTER-CLOCKWISE FOR 30031.P-REVERSE LAYOUT)

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Unless Otherwise Specified, All Units of Measure are Each
* Included In Hardware

Warning: During installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Penn-Tee-Nuts and Flats washers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS for 3963RP & 3981RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.

NOTE: AFTER ASSEMBLY IS COMPLETE, PRESS TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

DIA. "A" (PIPE SIZE)  |  DIA. "B" (FOOTING SIZE)
---------------------|---------------------
1 1/16" [2.70 cm]    | 1-1/4" [35.56 cm]   
1 5/16" [3.33 cm]    | 1-1/4" [35.56 cm]   
1 5/8" [4.13 cm]     | 1-1/4" [35.56 cm]   
1 7/8" [4.83 cm]     | 1-1/2" [35.56 cm]   
2 3/8" [6.03 cm]     | 1-1/2" [35.56 cm]   
3 3/4" [8.69 cm]     | 1-1/8" [45.72 cm]   
5" [12.70 cm]        | 1-1/8" [45.72 cm]   

TRACK RIDE & SWINGS
5" [12.70 cm]        | 2'-0" [60.96 cm]    

TREE TOP
5" [12.70 cm]        | 4'-0" [121.92 cm]   

NOTES:
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1178-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING: 3000 PSI

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

LEG (PIPE DIA.)  |  BOLT REQUIRED
-----------------|-----------------
1 5/16" [3.3 cm] | 3/8" x 2" HEX HEAD (801007) 
1 5/8" [4.1 cm]  | 3/8" x 2 1/2" HEX HEAD (801008) 
1 7/8" [4.7 cm]  | 3/8" x 3" HEX HEAD (801011) 
2 3/8" [6.0 cm]  | 3/8" x 3 1/2" HEX HEAD (801013) 
2 7/8" [7.3 cm]  | 3/8" x 4" HEX HEAD (801015) 

LEG, SEE CHART FOR SIZE
3/8" HEX NUT (604053)
SEE CHART FOR SIZE
EXTENSION
 DETAILS -for- 3963RP & 3981RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTRAPMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PLACE TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.

TUBE SECTIONS

5/16" x 3/4" P.B.H.C.S. w/PATCH (812040)

5/16" T-NUT (SHORT) (804558)

5/16" FLAT WASHER (1 1/8" O.D.) (817403)

5/16" LOCK WASHER (817330)

ENTRANCE SECTION

5/16" FLAT WASHER (1 1/8" O.D.) (817403)

5/16" LOCK WASHER (817330)

EXIT SECTION (304903)

ELBOW

INDEX LINES

PAGE 12
DETAILS -for-
3963RP & 3991RP

IMPORTANT
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

NOTE: LOCTITE (supplied by others) should be used on all threaded hardware.
NOTE: After assembly is complete, peer tee-nuts and flat washers to match radius of pipe.

0 INCH
0 CM

5/16" x 1" P.B.H.C.S. w/patch (812042)
5/16" x 3/4" P.B.H.C.S. w/patch (812040)
5/16" lock washer (817330)
5/16" flat washer (817406)
5/16" T-nut (short) (804558)
3/8" flat washer (1" O.D.) (817401)

FORMED FOOTBUCK
FOOTBUCK SADDLE
A
DETAILS for
3963RP & 3981RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PLACE Tin-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

1/4" FLAT WASHER
(5/8" O.D.) (817406)

(135499 STEM)

(135499 SLEEVE)

HDPE TRIM

NOTE 1: HDPE TRIM PIECES MUST ALWAYS BE PLACED TO THE OUTSIDE FACE OF THE COMPONENT.

NOTE 2: STEM SIDE OF RIVET MUST ALWAYS BE ON METAL SIDE OF THE COMPONENT. FLUSH SIDE
OF RIVET MUST ALWAYS BE ON THE HDPE SIDE OF COMPONENT.
INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
<table>
<thead>
<tr>
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<th>PART#</th>
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<tr>
<td>16</td>
<td>1/4&quot; CHERRY-MATE RIVET</td>
<td>16</td>
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<tr>
<td>16</td>
<td>1/4&quot; FLAT WASHER (5/8&quot; O.D.)</td>
<td>16</td>
<td>817408*</td>
</tr>
<tr>
<td>2</td>
<td>3/8&quot; x 3/4&quot; P.B.H.C.S. w/PATCH</td>
<td>2</td>
<td>812052*</td>
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<tr>
<td>4</td>
<td>3/8&quot; x 1 1/4&quot; P.B.H.C.S. w/PATCH</td>
<td>4</td>
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<td>2</td>
<td>3/8&quot; FLAT WASHER</td>
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<td>817410*</td>
</tr>
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<td>6</td>
<td>3/8&quot; LOCK WASHER</td>
<td>6</td>
<td>817384*</td>
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<td>804556*</td>
</tr>
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.
Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
3964RP

IMPORTANT
To Reduce the Risk of Clothing Entanglement in Compliance with ASTM F1487, Any Bolt End
Protruding More Than Two Full Threads Beyond the Face of the Nut Shall Be Cut-Off Flush, Filed
Smooth and Treated to Prevent Corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware.

Note: After assembly is complete, peel tee-nuts and flat washers to match radius of pipe.
DETAILS -for-
3964RP

IMPORTANT
To Reduce the Risk of Clothing Entanglement in Compliance with ASTM F1487, Any Bolt End
Protruding More Than Two Full Threads Beyond the Face of the Nut Shall Be Cut-Off Flush, Filed
Smooth and Treated to Prevent Corrosion.

NOTE: Loctite (Supplied by Others) Should be Used on All Threaded Hardware.

Note: After Assembly is Complete, Peel Tab-Nuts and Flatwashers to Match Radius of Pipe.

1/4" FLAT WASHER
(5/8" O.D.) (817408)

(135498 STEM)

WELD ASSY

(135498 SLEEVE)

NOTE 1: HDPE TRIM PIECES MUST ALWAYS BE PLACED TO THE OUTSIDE FACE OF THE COMPONENT.

NOTE 2: STEM SIDE OF RIVET MUST ALWAYS BE ON METAL SIDE OF THE COMPONENT. FLUSH SIDE OF RIVET MUST ALWAYS BE ON THE HDPE SIDE OF COMPONENT.

HDPE TRIM

743

PAGE 4
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLER INSTRUCTIONS in the installation booklet, follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
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Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them In A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
DETAILS -for-
3966RP & 3982RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE.
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF UPRIGHT.

ENCLOSURE

3/8" T-NUT (804556)

3/8" LOCK WASHER (817334)

3/8" FLAT WASHER (817424)

3/8" x 3/4" P.B.H.C.S.
W/PATCH (812052)

3/8" HEX NUT (804053)

DECK

3/8" LOCK WASHER (817334)

3/8" FLAT WASHER (817424)

3/8" x 1" P.B.H.C.S.
W/PATCH (812050)

FILLER PLATE

3/8" LOCK WASHER (817334)

3/8" FLAT WASHER (817410)

NOTE: BOLTS SHOULD BE TORQUED FROM 20-25 FT LBS. FOR PROPER INSTALLATION.

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN FLAT WASHERS TO MATCH RADIUS OF UPRIGHT.
DETAILS -for-
3966RP & 3982RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUSING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE
NOTE: AFTER ASSEMBLY IS COMPLETE, FIT TEETH-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.
INSTALLATION INSTRUCTIONS

1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.

USE DETAIL F28 FOR 165794 (IN-GROUND)

ASSEMBLY DRAWING

TOP VIEW
NOTE: HOLE DEPTHS INDICATED ON ALL GROUND PLANS ARE MEASURED FROM THE FINISHED SURFACE. SEE DETAIL 032. ALL FOOTING DIMENSIONS ARE BASED ON LEVEL FINISHED SURFACE.

**GROUND PLAN**

CONCRETE REQUIRED
2.04 CUBIC YARDS
[1.56 CUBIC METERS]
INSTALLATION INSTRUCTIONS
1. Before assembling this equipment, read the enclosed INSTALLATION INSTRUCTIONS in the installation booklet; follow all the instructions during installation.
2. Assemble parts as shown in the ASSEMBLY DRAWING. Refer to the assembly details for the specific hardware required in each connection.
INSTALLATION INSTRUCTIONS

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ASSEMBLY DRAWING
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Unless Otherwise Specified, All Units of Measure are Each
* Included in Hardware

Warning: During Installation, Hardware And Small Parts Are Choking Hazards
For Young Children. Store Unused Parts Appropriately Until Assembly Is Completed.
Once Assembly Is Completed, Remove Any Unused Parts From The Play Environment
And Dispose/Save Them in A Secure Location.

Note: Peen Tee-Nuts and Flatwashers to match radius of pipe after assembly is complete.
Note: Loctite (supplied by others) should be used on any non-patch hardware.
IMPORTANT

TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 1'-0" [30.48 cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

**NOTE:**
BOLTS SHOULD BE TORQUED FROM 20-25 FT. LBS. FOR PROPER INSTALLATION.

**NOTE:**
AFTER ASSEMBLY IS COMPLETED, PEEN FLAT WASHERS TO MATCH RADIUS OF UPRIGHT.
IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

ENCLOSURE ASSEMBLY
3/8" LOCK WASHER (817334)
3/8" x 1 1/4" P.B.H.C.S. (812051)

UPRIGHT

DECK
3/8" FLAT WASHER (1 1/4" O.D.) (817424)
3/8" LOCK WASHER (817334)

3/8" X 3/4" P.B.H.C.S. w/PATCH (812052)

3/8" HEX NUT (804053)
3/8" LOCK WASHER (817334)

3/8" FLAT WASHER (1 1/4" O.D.) (817424)
3/8" X 1" P.B.H.C.S. w/PATCH (812050)

PAGE 8
DETAILS -for-
3967RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, Filed
SMOOTH AND TREATED TO PREVENT CORROSION.

NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE

NOTE: AFTER ASSEMBLY IS COMPLETE, PEEP TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

3/8" LOCK WASHER (817334)

3/8" x 1 1/4" P.B.H.C.S.
W/PATCH (812051)

PIPE CONNECTOR

405

3/8" LOCK WASHER
(817334)

3/8" HEX
NUT (804053)

FILLER PLATE

DECK

3/8" FLAT WASHER
(817424)

3/8" FLAT WASHER
(817410)

UPRIGHT EXTENSION

3/8" LOCK WASHER
(817334)

3/8" x 1 1/2"
P.B.H.C.S. w/PATCH
(812053)

EXISTING UPRIGHT

'B'
DETAILS -for-
3967RP

Important
To reduce the risk of clothing entanglement in compliance with ASTM F1487, any bolt end protruding more than two full threads beyond the face of the nut shall be cut-off flush, filed smooth and treated to prevent corrosion.

Note: Loctite (supplied by others) should be used on all threaded hardware

Note: After assembly is complete, use tee-nuts and flat washers to match radius of pipe.
DETAILS -for-
3967RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.
NOTE: LOCTITE (SUPPLIED BY OTHERS) SHOULD BE USED ON ALL THREADED HARDWARE
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

3/8" T-NUT (804556)

DECK

TUBE ENTRANCE

3/8" LOCK WASHER
(817334)

3/8" FLAT WASHER
(1 1/4" O.D.) (817424)

3/8" x 2" P.B.H.C.S.
w/PATCH (812055)

UPRIGHT

3/8" LOCK WASHER
(817334)

3/8" x 2" P.B.H.C.S.
w/PATCH (812055)

TRU-LOC
(*03650)

ALUM. PIN (203668)

*NOTE:
BOLT SHOULD BE
TORQUED FROM
20-25 FT. LBS. FOR
PROPER INSTALLATION.

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(* = A OR Z)

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DETAILS -for-
3967RP

IMPORTANT
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.
NOTE: LOCTITE (Supplied by Others) SHOULD BE USED ON ALL THREADED HARDWARE
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLAT WASHERS TO MATCH RADIUS OF PIPE.

0 INCH
0 CM
1 2 3 4 5 6
1 2 3 4 5 6
1/4" FLAT WASHER
(5/8" O.D.) (817408)
(135499 STEM)
WELD ASSY

(135499 SLEEVE)
HDPE TRIM

NOTE 1: HDPE TRIM PIECES MUST ALWAYS BE PLACED TO THE OUTSIDE FACE OF THE COMPONENT.
NOTE 2: STEM SIDE OF RIVET MUST ALWAYS BE ON METAL SIDE OF THE COMPONENT, FLUSH SIDE OF RIVET MUST ALWAYS BE ON THE HDPE SIDE OF COMPONENT.

ROOF CAP PLATE
1/4-20 x 3/4" SS SELF DRILLING SCREW
(810072)
1/4-20 x 3/4" SS SELF DRILLING SCREW
(810072)
UPRIGHT POST

743
834
SOUTH RIDGE COMMUNITY PARK
ENHANCEMENT PLAN 2019

HOFFMAN ESTATES, IL 60192

9/17/19

MWRD

10/22/19

MWRD

11/25/19

VILLAGE

1/2/20

MWRD

1/17/20

SWCD

1/23/20

ADD #1 2/03/20

SITE GRADING PLAN

C-5.1
NOTES:
1. 2 x 2 nominal hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.
2. Area inside the fence, from edge of fabric to structure, must be stabilized with Erosion Control Blanket, Turf Reinforcement Mat, Geotextile 592 Table 2 Class 2 or CA-7 stone.
3. Maximum height of the fabric above the crest of the drop inlet shall be 30". Place the bottom 6 inches of the fabric in a trench and backfill with 6 inches of 95% compacted soil.
4. Stakes must be a maximum of 4 feet apart.
5. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the monofilament fabric.
6. Monofilament fabric shall meet the requirement of Material Specification 592 Geotextile Table 1, Class 4.
7. Monofilament fabric shall be secured to each 2" x 2" nominal hardwood stake with a minimum of 4 steel staple fasteners and wood lath. Wood lath shall be a minimum length of 10 inches. Wire fasteners should be used if metal T-Posts are installed in place of hardwood stakes.
6. REFER TO CONCRETE SECTION FOR MINIMUM COMPRESSIVE STRENGTH AND C/C REBAR PLACED IN BOTH DIRECTIONS AT MID-HEIGHT OF THE SLAB, UNLESS OTHERWISE SPECIFIED.

6.2 NO TRUCKS ARE PERMITTED ON THE CONSTRUCTION SITE (OF THE SLAB) AFTER THE FINAL COMPACTION, EITHER BEFORE OR DURING, THE POUR. ALL GRANULAR MATERIAL SHALL BE MOISTENED ANY CONTAMINANTS.

6.3 SLAB TO BE MINIMUM 6 INCHES THICK, REINFORCED WITH 10m (#3) @ 300mm STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES). THE RE-BAR PLACER MUST REMAIN ON-SITE DURING POURS TO VERIFY CORRECT POSITIONING OF RE-BARS. SLANT UPPER REINFORCING STEEL IN LINE WITH THE SLOPE OF THE SLAB, IF APPLICABLE.

7. NO REQUIRED WATER METER ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER. BACKFLOW PREVENTER AND PRESSURE REGULATOR WILL BE PROVIDED BY VORTEX.

8. PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED. THE WORKAND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.

9. ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN RESPECTING THE LOCAL CODE.

7.2 GENERAL REQUIREMENTS FOR COLD WEATHER CONCRETE WORK SHALL BE CONFORM TO THE LATEST ISSUES OF ACI-318 AND ACI 317 OR ACNOR CAN3-A23.1 & A23.2, (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

6.4 CONCRETE STRENGTH @ 28 DAYS TO BE: 5000 PSI (35.0 MPa). USE 1" (25mm) GROUT UNDER ALL STEEL COLUMN BASE PLATES.

3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR MINERAL, INERT AND NON-REACTIVE FILL.

8.7 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, DISTANCE OF 125 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE CONCRETE MUST DRY UNIFORMLY. THE CONCRETE MUST DRY UNIFORMLY. MAINTAINED FOR 7 DAYS DURING THE CURING PERIOD OF THE SLAB. WATER AND ANY OTHER ELECTRICAL EQUIPMENT BOX MUST BE HARD-WIRED TO A GROUND SOLENOID.

8.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 144 GPM EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BY INSTALLER. BACKFLOW PREVENTER AND PRESSURE REGULATOR WILL BE PROVIDED BY VORTEX.

8.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SLEEVES, POSSIBLE GAS LEAKS, DAMAGE TO THE Tf GT TO BE REPORTED TO THE CONTRACTOR IMMEDIATELY.

8.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED. THE WORKAND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.

9.6 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER AND REJECTED. DO NOT ADD WATER TO THE CONCRETE IN THE TRUCKS OR ON THE SITE UNDER ANY OTHER ELECTRICAL EQUIPMENT BOX MUST BE HARD-WIRED TO A GROUND SOLENOID.

9.7 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN RESPECTING THE LOCAL CODE.

3.1 TYP FOR IA 2% SLOPE 2% EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BY INSTALLER. BACKFLOW PREVENTER AND PRESSURE REGULATOR WILL BE PROVIDED BY VORTEX.

3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR MINERAL, INERT AND NON-REACTIVE FILL.

4.3 USE MAXIMUM 76mm (3") SLUMP, 19 MM (3/4") AGGREGATE, UNLESS OTHERS ARE TO BE DETERMINED BY OTHERS.

4.5 CONCRETE STRENGTH @ 28 DAYS TO BE: 5000 PSI (35.0 MPa). USE 1" (25mm) GROUT UNDER ALL STEEL COLUMN BASE PLATES.

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1. REFER TO SPECIFICATIONS ON A-001
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.
Playsafe Drain No1
VOR-1001.4000

South Ridge Splashpad

VORTEX USA Inc.
1420 Valwood Parkway Suite 205
Carrollton, Texas
United States 75006
Toll Free: +1 (877) 586-7839
Phone: +1 (972) 410-3619

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PLUMBING & ELECTRICAL LAYOUT

SCALE: 1/8"=1'-0"

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

WATER LINE

DRAIN LINE

ELECTRICAL LINE

PLUMBING & ELECTRICAL LAYOUT

SCALE: 1/4"=1'-0"

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

WATER LINE

DRAIN LINE

ELECTRICAL LINE

PLUMBING & ELECTRICAL LAYOUT

SCALE: 3/4"=1'-0"

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.
WINTERIZING DRAIN PIT
4" TYP DRAIN LINE WITH STRAINER

TYPICAL WINTERIZING DRAINAGE CONFIGURATION LAYOUT

ALTERNATE WINTERIZING DRAINAGE CONFIGURATION LAYOUT

WALL MOUNTED COMMAND CENTER WITH INTERVAL OF 5 VALVES POSITIONS, MAESTRO CONTROLLER

South Ridge Splashpad

VORTEX USA Inc.
1620 Verdant Parkway Suite 305
Carrollton, Texas
United States 75006

Toll Free: +1 (877) 586-7839

Hoffman Estates, IL

Project Number: 24812

Project Location

Sheet 2

Plumbing Details

document

rev

sheet

Drawn by

Verified by

Scale

PD-001

D800.0000R01

Sheet Date

06/00/2020

1 - 5 VALVES SEE TABLE A
1 - 10 VALVES SEE TABLE A
1 - 15 VALVES SEE TABLE A
1 - 20 VALVES SEE TABLE A

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1. REFER TO SPECS ON A-001
2. COORDINATE THIS DRAWING WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL.

Bonding wire ---------------
**South Ridge Splashpad**

**Feature Installation Drawing**

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**1. Aqua Dome No.1**

- PLAN VIEW
- FRONT ELEVATION VIEW
- SIDE ELEVATION VIEW

**2. Bobble No.1**

- PLAN VIEW
- FRONT ELEVATION VIEW
- SIDE ELEVATION VIEW

**3. Bollard Activator No.3**

- PLAN VIEW
- FRONT ELEVATION VIEW
- SIDE ELEVATION VIEW

**4. Hello No. 5**

- PLAN VIEW
- FRONT ELEVATION VIEW
- SIDE ELEVATION VIEW

**5. Hello No. 6**

- PLAN VIEW
- FRONT ELEVATION VIEW
- SIDE ELEVATION VIEW

**6. Snail No.4**

- PLAN VIEW
- FRONT ELEVATION VIEW
- SIDE ELEVATION VIEW

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**Typical Anchoring SafeSwap No.1**

For this application, 2” NPT female coupling of the SafeSwap® will be used to connect the electrical conduit, supplied by installer, and run the electrical cable. Electrical cable specification:

- M12-5 Pin Connector Cable, 22AWG, Maximum O.D.: 0.25” (supplied up to 75m with activator by Vortex)

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**Typical Anchoring SafeSwaps No.2**

- Earth Ground

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**Typical Anchoring SafeSwaps**

*For this application, 2” NPT female coupling of the SafeSwaps® will be used to connect the electrical conduit, supplied by installer, and run the electrical cable.*

**Electrical Cable Specification:**

- M12-5 Pin Connector Cable, 22AWG, Maximum O.D.: 0.25” (supplied up to 75m with activator by Vortex)