

UP179J CHEST PRESS ACCESSIBLE (FOOTING) UP179S CHEST PRESS ACCESSIBLE (IN GROUND) UP179SM CHEST PRESS ACCESSIBLE (SURFACE)

Parts List				
DESCRIPTION	UP179J (FOOTING)	UP179S (IN GROUND)	UP179SM (SURFACE)	PART NUMBER
ADA CHEST PRESS ASS'Y	1	1	1	206967
HANDLE BAR	1	1	1	206959
ADA HANDLE BAR	1	1	1	206964
ADA SEAT/BACKREST	2	2	2	207600
CUSHION	1	1	1	209075
5" BASE COVER	1	1	1	207659
FOOTBUCK WELD ASS'Y	0	1	0	206467
HARDWARE COMPLETE	0	0	1	207605
HARDWARE COMPLETE	1	0	0	207606
HARDWARE COMPLETE	0	1	0	207607
1/2" ANCHOR ROD	0	2	0	135038*
3/4" x 4 1/4" WEDGE ANCHOR	0	0	4	206358*
5" INJECTION MOLDED CAP	1	1	1	207710*
3/4" ANCHOR BOLT	4	0	0	800001*
3/4" x 2" HEX HEAD CAP SCREW	0	4	0	801533*
3/4" HEX NUT	8	4	0	804058*
3/8" x 3/4" P.B.H.C.S. w/PATCH	8	8	8	812052*
3/8" LOCKWASHER	8	8	8	817334*
3/4" LOCKWASHER	4	4	4	817354*
3/8" FLAT WASHER	8	8	8	817410*
3/4" FLATWASHER (2" O.D.)	8	4	0	817420*
1/2" FLAT WASHER	4	4	4	817412*
12MM DO-NUT BASE	4	4	4	G034BK*
12MM DO-NUT CAP	4	4	4	G036BK*
MACHINED SHAFT	2	2	2	206986*
1/2" FLATWASHER	4	4	4	817700*
1/2" x 1 1/4" B.H.C.S.	4	4	4	811062*
USAGE/WARNING LABEL	1	1	1	403883*
USAGE/WARNING LABEL	1	1	1	403904*

Unless Otherwise Specified, All Units of Measure are Each

*Items listed below Hardware Complete line are included with Hardware Complete Number

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. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement.

Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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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SPECIFICATIONS

BACKREST/SEAT/CUSHION: The Backrest, Cushion, and seat shall be constructed from injection molded Nylon W6.

BASE COVER: The Base Cover shall be constructed from aluminum and powder coated.

BOLT BASE AND CAP: The Bolt Base and Cap shall be constructed from Nylon PA6, and shall be black in color.

5" PLASTIC CAP: The 5" Plastic Cap shall be constructed from injection molded Low Density Polyethylene.

WELD ASSEMBLIES:

HANDLEBAR: The handlebar assemblies shall be constructed from 1.66" O.D. x 0.109" steel tubing. The assemblies shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

MAIN POST: Main Post assembly shall be manufactured with 2 15/16" x 9" and 1/8" thick hot rolled laser cut steel plate, 1/2" thick 10 1/4" dia. hot rolled laser cut steel plate, 2.375" O.D. x 0.154" SCH 40 pipe, 3.5" O.D. x 0.216" SCH 40 pipe, 4.5" O.D. x 0.25" SCH 40 pipe and 5" O.D. galvanized upright. The upright shall be 11 gauge (.120") galvanized round tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. The main support frame assemblies and formed supports shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

MECHANISM PARTS:

BEARING HOLDER: Shall be manufactured with 4.245" O.D. stain steel machined tubing.

DISK BEARING: The disk bearing should be pre lubricated 3 3/8" O.D. 1 1/8" square bore stainless steel bearing.

MACHINED SHAFT: The machine shaft shall be manufactured with 1 3/16" x 9 1/8" stainless steel shaft.

RUBBER SPRING: Shall consist of rubber encapsulated by cast steel with a steel inner core.

FOOTBUCK: The upright shall be fabricated of 5" O.D. galvanized pipe and the mounting plate shall be a fabricated 3/8" hot rolled flat steel. Shall be a once piece welded unit.

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. The 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-522-68).

HARDWARE: All nuts, bolts, screws, and lock washers used in the assembly 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.

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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 completed. Bracing material is required during assembly.

NOTE: Assembly and leveling times will be greatly reduced if a transit is used to set location and depth of ground holes.

INSTALLATION INSTRUCTIONS FOR UP179J (FOOTING):

1. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
2. Fill hole with concrete. While the concrete is still soft, yet firm enough to support the Chest Press, Place (4) Anchor Bolts of the Chest Press in position. See Footing Detail. **NOTE:** Use Chest Press as a template for Anchor Bolt location, then remove Chest Press.

IMPORTANT: DO NOT MOUNT THE CHEST PRESS TO THE ANCHOR BOLTS FOR AT LEAST 7 DAYS.

3. After concrete has cured and set for a minimum of 7 Days, attach Chest Press to 3/4" Anchor Bolt using 3/4" Flat Washer (2" O.D.), 3/4" Lock Washer, and 3/4" Hex Nut. See Footing Assembly Detail.
4. Attach Base Cover to Equipment Post using Base Cover Nut and Base Cover Bolt included with Base Cover. See Base Cover Detail.
5. Attach Handles to Chest Press Assembly using Bolt Base and Cap, 1/2" x 1 1/4" B.H.C.S, 1/2" Flatwashers, and Machined Shaft. See Handle assembly detail.
6. Attach Seat to Chest Press Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 5/16" Lockwasher, and 5/16 Flatwasher. See ADA Seat Detail. Attach Cushion using supplied hardware. See Cushion Detail.
7. Insert injection molded cap to top of assembly. See 5" Cap Detail.

INSTALLATION INSTRUCTIONS FOR UP179S (IN-GROUND):

1. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
2. Attach the Footbuck Weld Assembly to the Chest Press using 3/4" Hex Nut, 3/4" Lockwasher, 3/4" Flatwasher (2" O.D.), and 3/4" x 2" Hex Head Cap Screw. See In-Ground Assembly Detail.
3. Place Chest Press into hole making sure it rests on the brick. See In-Ground Detail.
4. Level Chest Press using sway bracing.
5. Pour concrete according to the Plan View and Elevation View. Allow concrete to cure for a minimum of 7 days.
6. Attach Base Cover to Equipment Post using Base Cover Nut and Base Cover Bolt included with Base Cover. See Base Cover Detail.
7. Attach Seat to Chest Press Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 5/16" Lockwasher, and 5/16 Flatwasher. See ADA Seat Detail. Attach Cushion using supplied hardware. See Cushion Detail.

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8. Insert injection molded cap to top of assembly. See 5" Cap Detail.

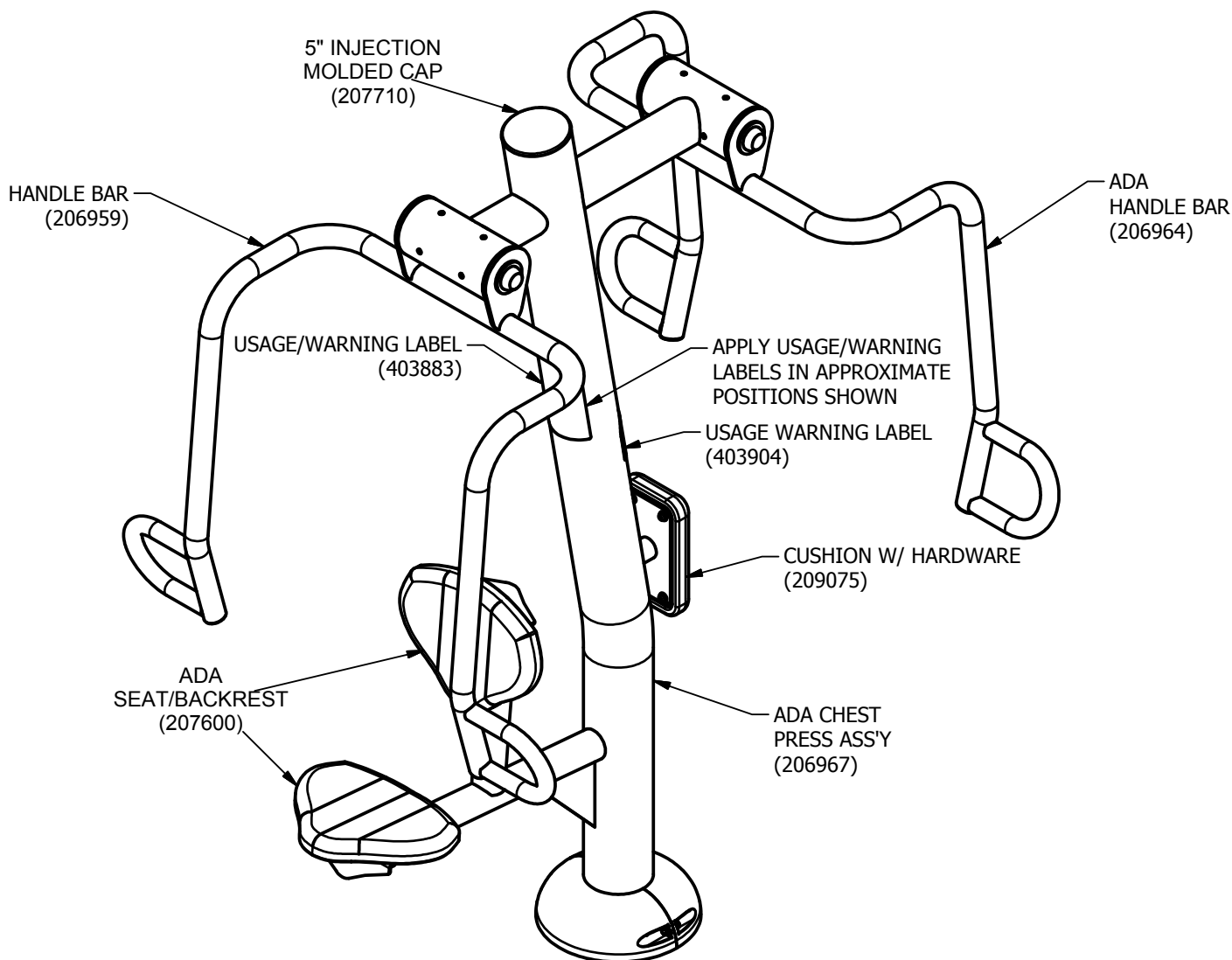
INSTALLATION INSTRUCTIONS FOR UP179SM (SURFACE):

1. Mark correct location of holes for Wedge Anchor using the Base Plate as a guide.
2. Drill 3/4" x 2 1/2" hole in concrete for Wedge Anchor. See Surface Detail.
3. Insert Wedge Anchors and secure with 3/4" Flatwasher (2" O.D.), 3/4" Lockwasher, and 3/4" Hex Nut. See Surface Assembly Detail.
4. Attach Base Cover to Equipment Post using Base Cover Nut and Base Cover Bolt included with Base Cover. See Base Cover Detail.
5. Attach Seat to Chest Press Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 5/16" Lockwasher, and 5/16 Flatwasher. See ADA Seat Detail. Attach Cushion using supplied hardware. See Cushion Detail.
6. Insert injection molded cap to top of assembly. See 5" Cap Detail.

UP179J CHEST PRESS ACCESSIBLE (FOOTING) UP179S CHEST PRESS ACCESSIBLE (IN GROUND) UP179SM CHEST PRESS ACCESSIBLE (SURFACE)

MAINTENANCE PROCEDURE:

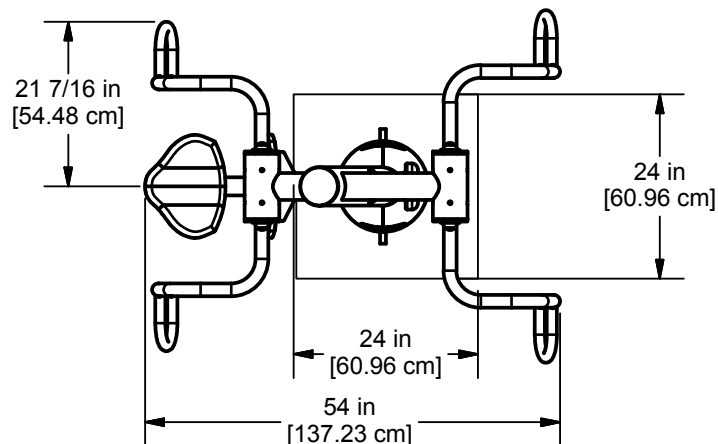
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



FINISHED ASSEMBLY

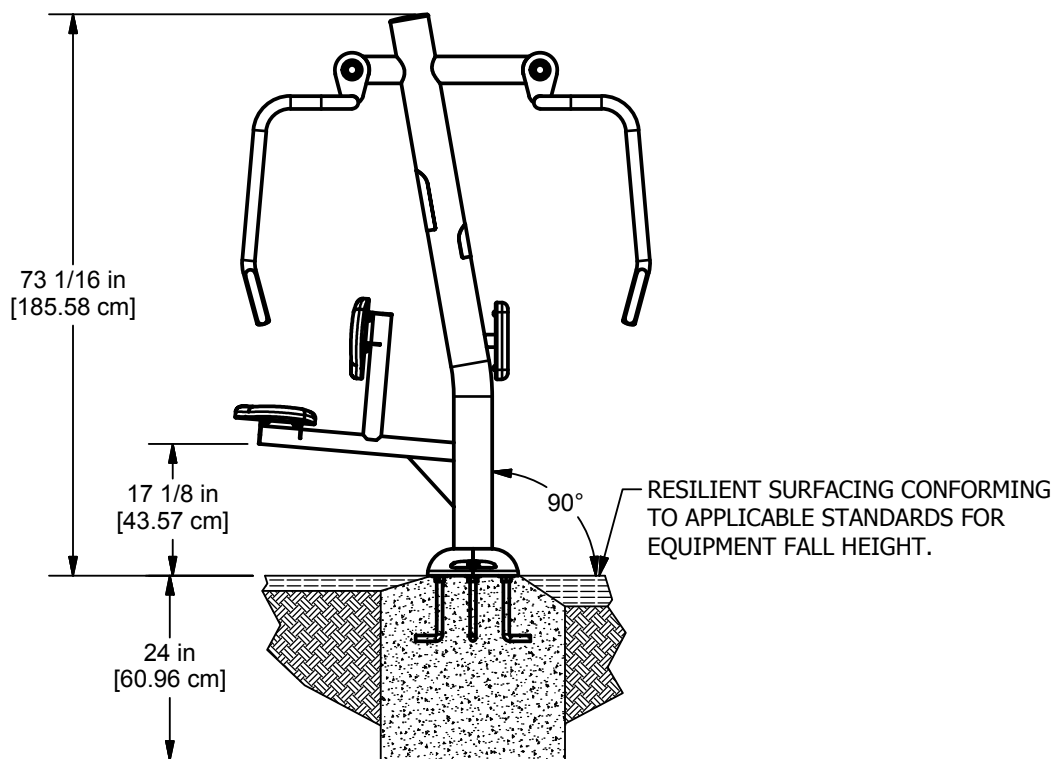
Issued/Revised: 10/10/16

**UP179J CHEST PRESS ACCESSIBLE (FOOTING)
UP179S CHEST PRESS ACCESSIBLE (IN GROUND)
UP179SM CHEST PRESS ACCESSIBLE (SURFACE)**



PLAN VIEW

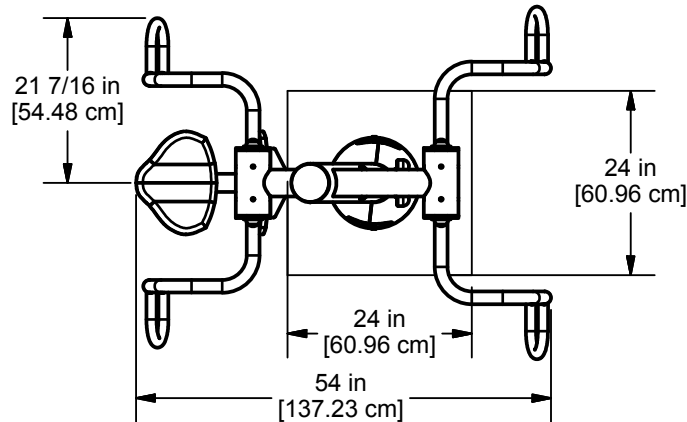
UP179J (FOOTING)



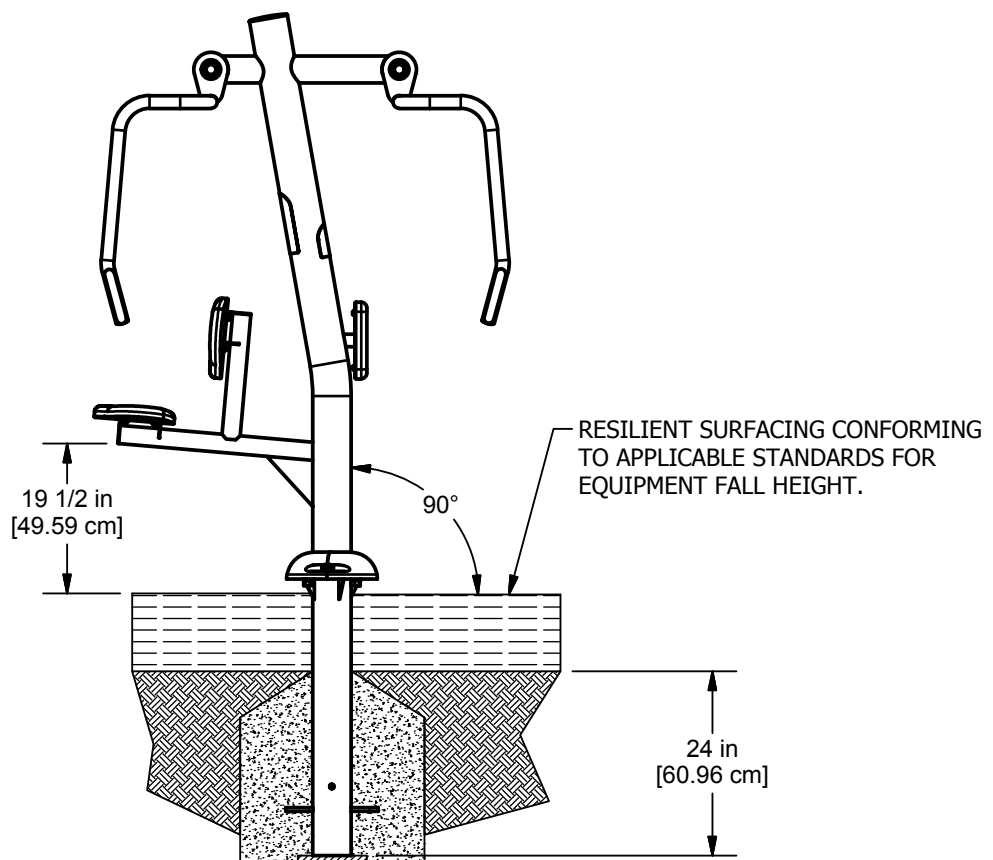
ELEVATION VIEW

UP179J (FOOTING)

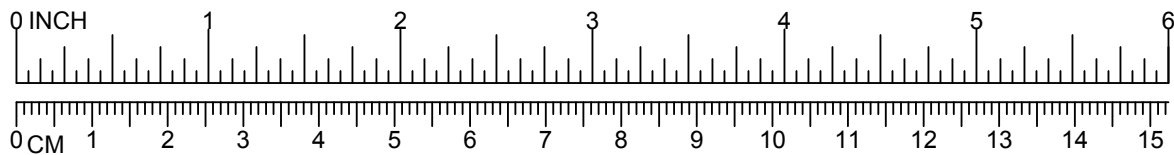
**UP179J CHEST PRESS ACCESSIBLE (FOOTING)
UP179S CHEST PRESS ACCESSIBLE (IN GROUND)
UP179SM CHEST PRESS ACCESSIBLE (SURFACE)**



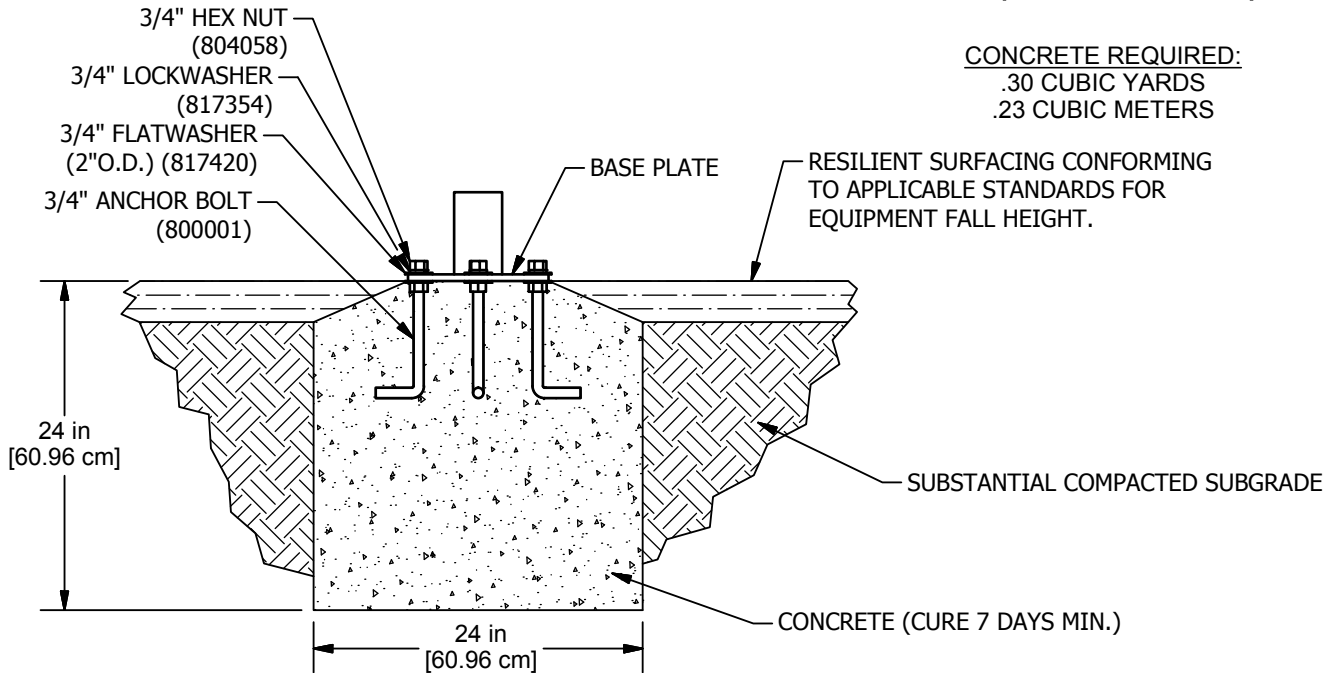
PLAN VIEW



**ELEVATION VIEW
UP179S (IN GROUND)**

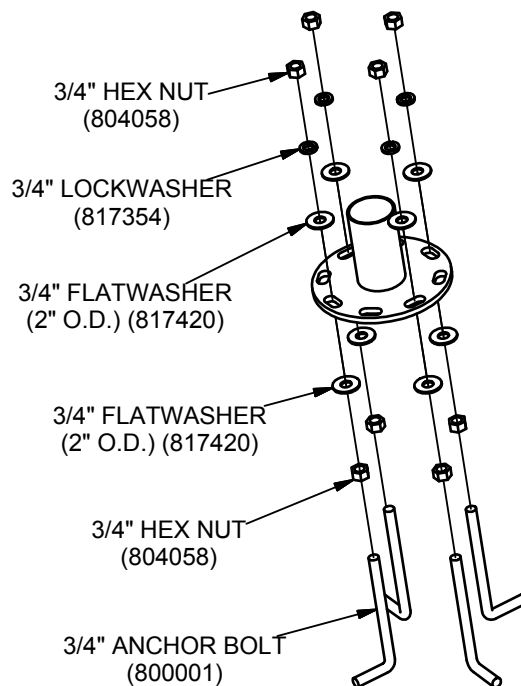


UP179J CHEST PRESS ACCESSIBLE (FOOTING) **UP179S CHEST PRESS ACCESSIBLE (IN GROUND)** **UP179SM CHEST PRESS ACCESSIBLE (SURFACE)**



CONCRETE REQUIRED:
 .30 CUBIC YARDS
 .23 CUBIC METERS

FOOTING DETAIL



NOTE:
 - RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.
 -SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.
 -SUGGESTED MINIMUM CONCRETE RATING 3000 PSI

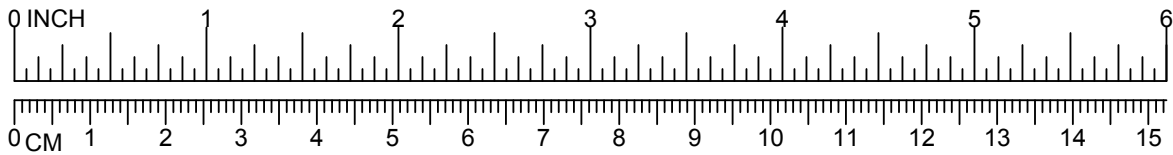
FOOTING ASSEMBLY DETAIL **UP179J (FOOTING)**

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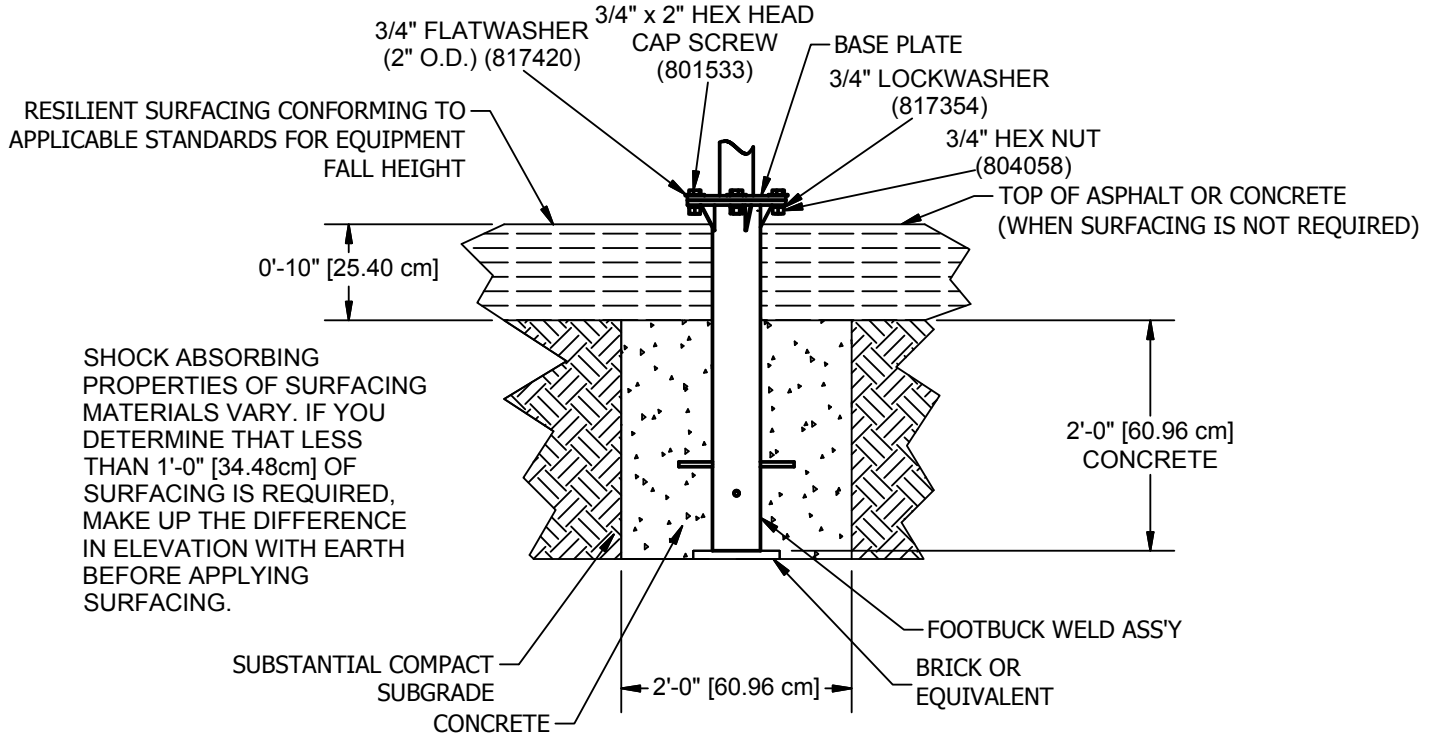


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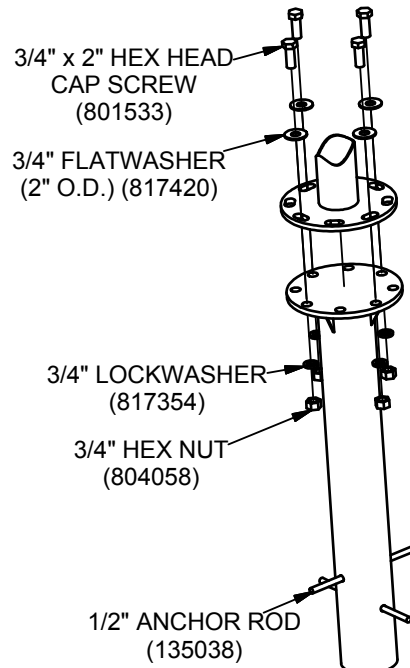


UP179J CHEST PRESS ACCESSIBLE (FOOTING) **UP179S CHEST PRESS ACCESSIBLE (IN GROUND)** **UP179SM CHEST PRESS ACCESSIBLE (SURFACE)**



CONCRETE REQUIRED:
.30 CUBIC YARDS
.23 CUBIC METERS

IN GROUND DETAIL



NOTE:

- RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.
- SLOPED FOOTING (45° MIN) IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.
- SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.

IN GROUND ASSEMBLY DETAIL **UP179S (IN GROUND)**

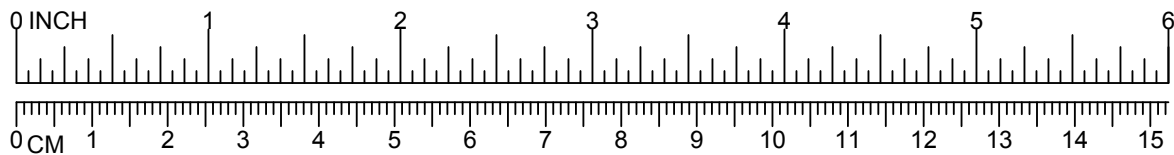
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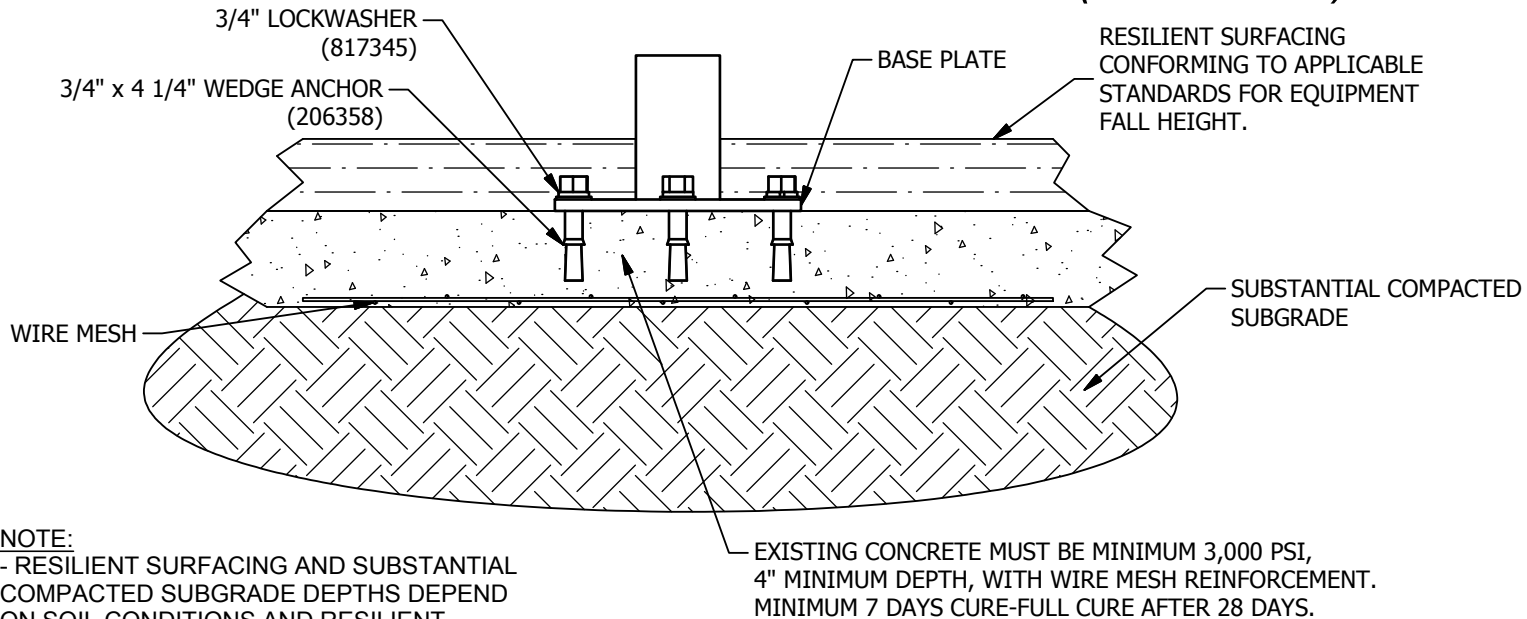
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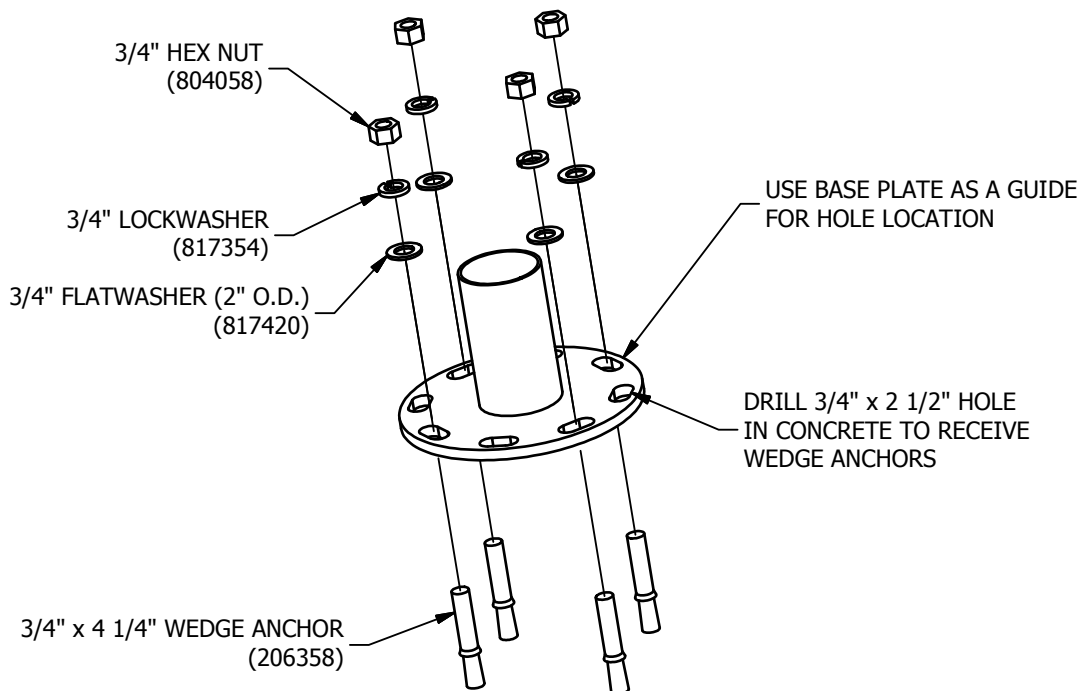


UP179J CHEST PRESS ACCESSIBLE (FOOTING) **UP179S CHEST PRESS ACCESSIBLE (IN GROUND)** **UP179SM CHEST PRESS ACCESSIBLE (SURFACE)**



NOTE:
 - RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.
 - SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.
 - SUGGESTED MINIMUM CONCRETE RATING 3000 PSI

SURFACE DETAIL **UP179SM (SURFACE)**



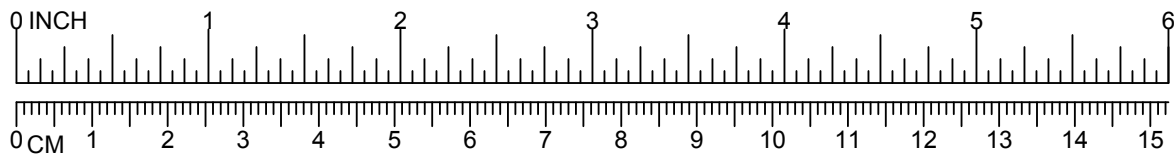
SURFACE ASSEMBLY DETAIL **UP179SM (SURFACE)**

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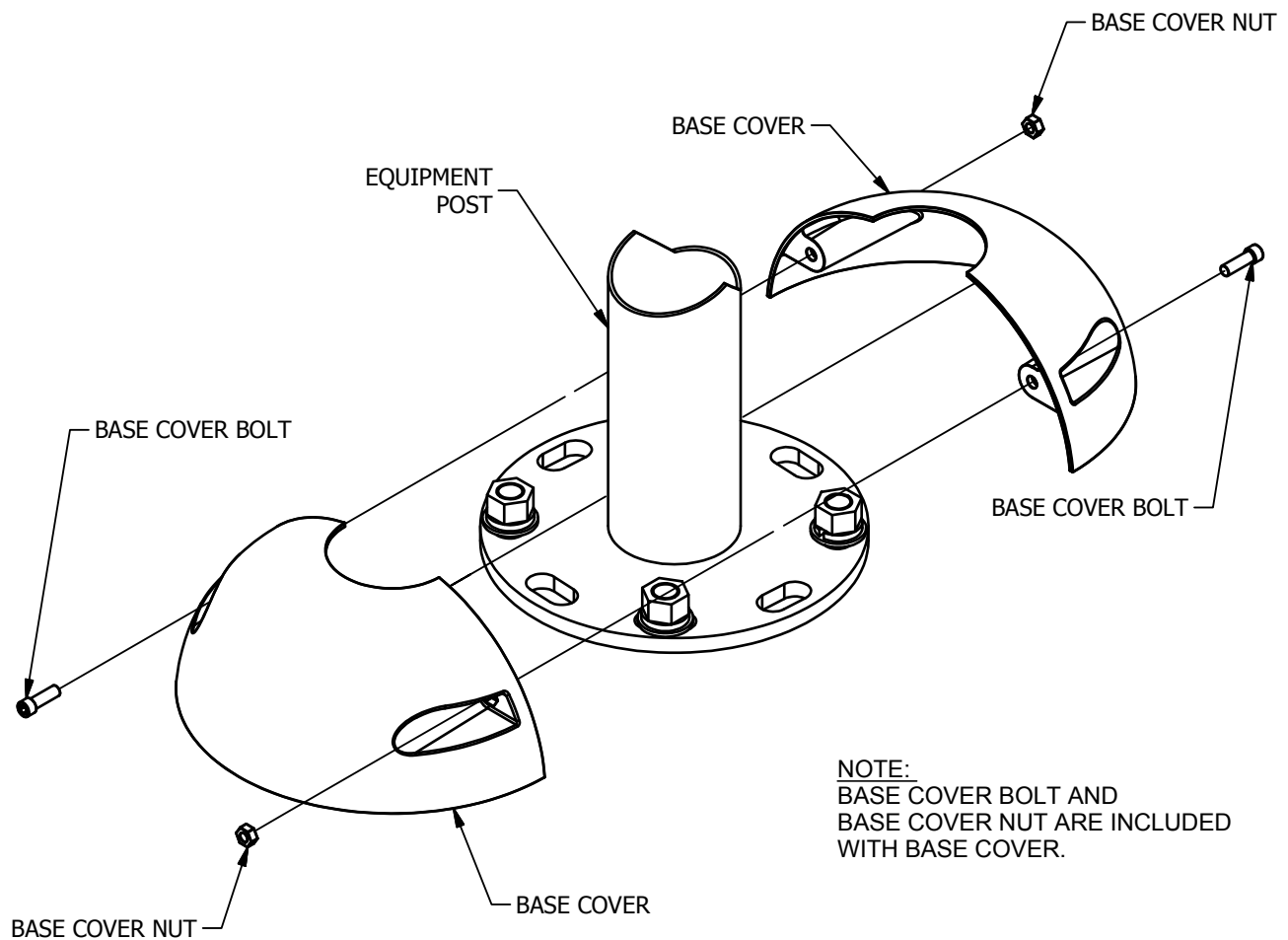


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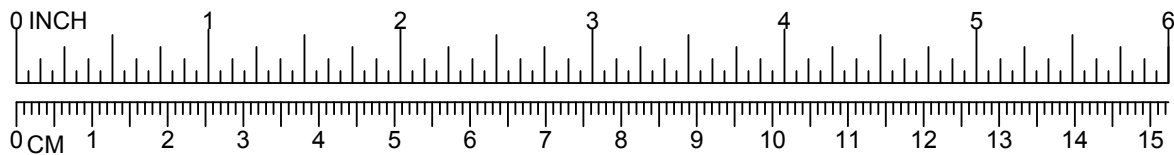


UP179J CHEST PRESS ACCESSIBLE (FOOTING)
UP179S CHEST PRESS ACCESSIBLE (IN GROUND)
UP179SM CHEST PRESS ACCESSIBLE (SURFACE)

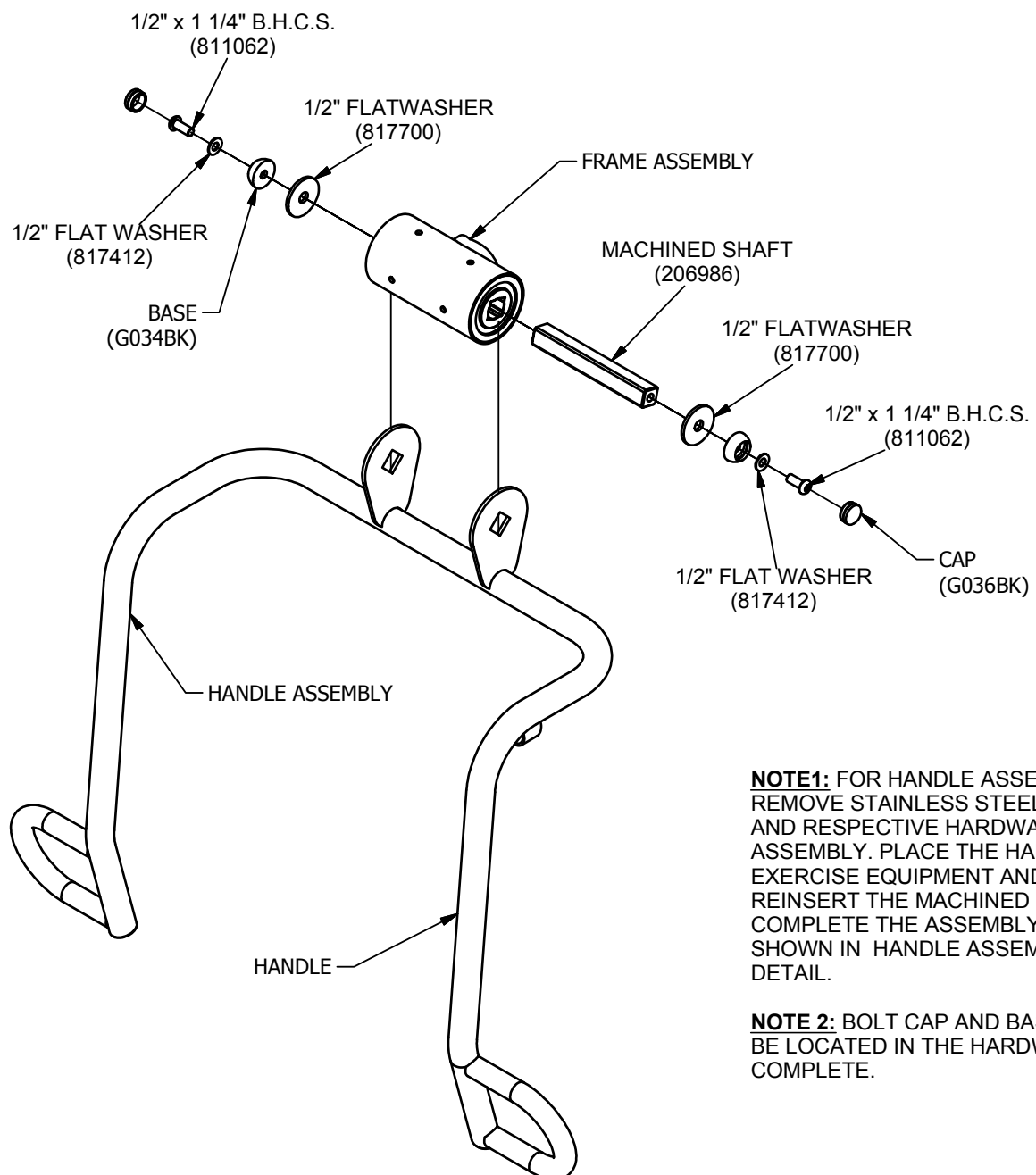


NOTE:
BASE COVER BOLT AND
BASE COVER NUT ARE INCLUDED
WITH BASE COVER.

BASE COVER DETAIL



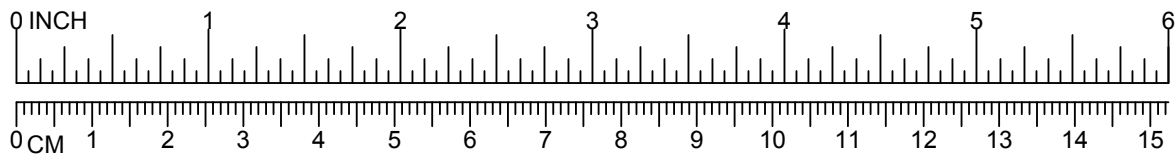
UP179J CHEST PRESS ACCESSIBLE (FOOTING)
UP179S CHEST PRESS ACCESSIBLE (IN GROUND)
UP179SM CHEST PRESS ACCESSIBLE (SURFACE)



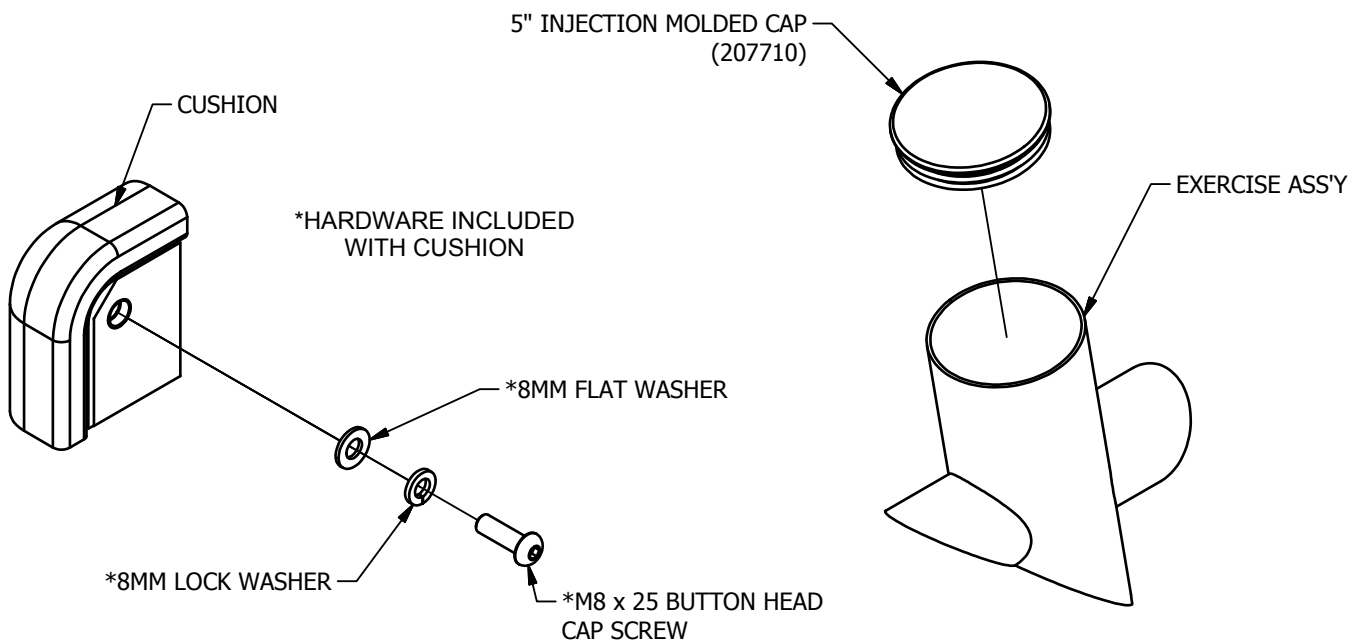
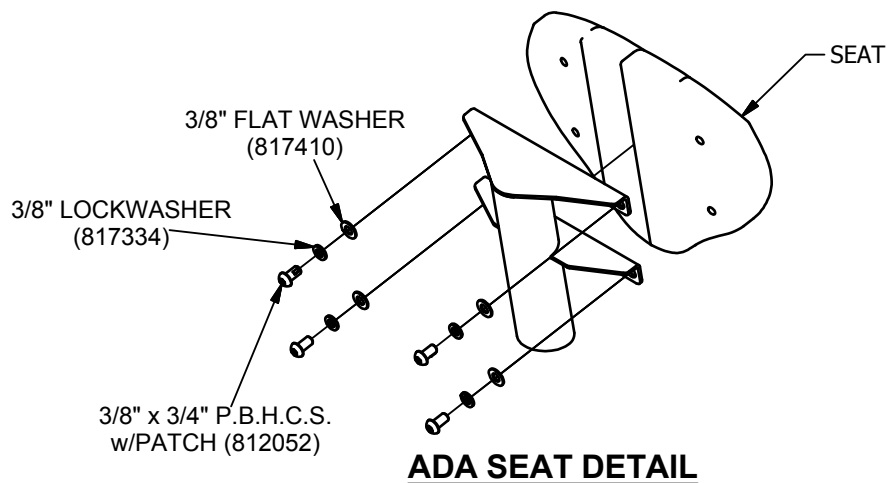
NOTE1: FOR HANDLE ASSEMBLY, REMOVE STAINLESS STEEL SHAFT AND RESPECTIVE HARDWARE FROM ASSEMBLY. PLACE THE HANDLE ON EXERCISE EQUIPMENT AND REINSERT THE MACHINED SHAFT. COMPLETE THE ASSEMBLY AS SHOWN IN HANDLE ASSEMBLY DETAIL.

NOTE 2: BOLT CAP AND BASE WILL BE LOCATED IN THE HARDWARE COMPLETE.

ADA HANDLE ASSEMBLY DETAIL



UP179J CHEST PRESS ACCESSIBLE (FOOTING)
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CUSHION DETAIL

5" CAP DETAIL

UP180J LAT PULL DOWN ACCESSIBLE (FOOTING) UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND) UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)

Parts List				
DESCRIPTION	UP180J (FOOTING)	UP180S (IN GROUND)	UP180SM (SURFACE)	PART NUMBER
ADA LAT-PULL DOWN ASS'Y	1	1	1	207488
NON ADA HANDLE ASS'Y	1	1	1	207486
ADA HANDLE ASS'Y	1	1	1	207484
ADA SEAT/BACKREST	2	2	2	207600
CUSHION	1	1	1	209075
5" BASE COVER	1	1	1	207659
FOOTBUCK WELD ASS'Y	0	1	0	206467
HARDWARE COMPLETE	0	0	1	403979
HARDWARE COMPLETE	1	0	0	403977
HARDWARE COMPLETE	0	1	0	403978
1/2" ANCHOR ROD	0	2	0	135038
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5" INJECTION MOLDED CAP	1	1	1	207710*
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1/2" FLAT WASHER	8	8	8	817412*
12MM DO-NUT BASE	4	4	4	G034BK*
12MM DO-NUT CAP	4	4	4	G036BK*
MACHINED SHAFT	2	2	2	206986*
1/2" FLATWASHER	4	4	4	817700*
1/2" x 1 1/4" B.H.C.S.	4	4	4	811062*
USAGE/WARNING LABEL	1	1	1	403895*
USAGE/WARNING LABEL	1	1	1	403905*

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Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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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BASE COVER: The Base Cover shall be constructed from aluminum and powder coated.

BOLT CAP AND BASE: The Bolt Base and Cap shall be constructed from Nylon PA6, and shall be black in color.

5" PLASTIC CAP: The 5" Plastic Cap shall be constructed from injection molded Low Density Polyethylene.

WELD ASSEMBLIES:

HANDLEBAR: The handlebar assemblies shall be constructed from 1.66" O.D. x 0.109" steel tubing. The assemblies shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

MAIN POST: Main Post assembly shall be manufactured with 2 15/16" x 9" and 1/8" thick hot rolled laser cut steel plate, 1/2" thick 10 1/4" dia. hot rolled laser cut steel plate, 2.375" O.D. x 0.154" SCH 40 pipe, 3.5" O.D. x 0.216" SCH 40 pipe, 4.5" O.D. x 0.25" SCH 40 pipe and 5" O.D. galvanized upright. The upright shall be 11 gauge (.120") galvanized round tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. The main support frame assemblies and formed supports shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

MECHANISM PARTS:

BEARING HOLDER: Shall be manufactured with 4.245" O.D. stain steel machined tubing.

DISK BEARING: The disk bearing should be pre lubricated 3 3/8" O.D. 1 1/8" square bore stainless steel bearing.

MACHINED SHAFT: The machine shaft shall be manufactured with 1 3/16" X 9 1/8" stainless steel shaft.

RUBBER SPRING: Shall consist of rubber encapsulated by cast steel with a steel inner core.

FOOTBUCK: The upright shall be fabricated of 5" O.D. galvanized pipe and the mounting plate shall be a fabricated 3/8" hot rolled flat steel. Shall be a once piece welded unit.

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. The 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-522-68).

HARDWARE: All nuts, bolts, screws, and lock washers used in the assembly 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.

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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 completed. Bracing material is required during assembly.

NOTE: Assembly and leveling times will be greatly reduced if a transit is used to set location and depth of ground holes.

INSTALLATION INSTRUCTIONS FOR UP180J (FOOTING):

1. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
2. Fill hole with concrete. While the concrete is still soft, yet firm enough to support the Lat Pull Down, Place (4) Anchor Bolts of the Lat Pull Down in position. See Footing Detail. **NOTE:** Use Lat Pull Down as a template for Anchor Bolt location, then remove Lat Pull Down.

IMPORTANT: DO NOT MOUNT THE LAT PULL DOWN TO THE ANCHOR BOLTS FOR AT LEAST 7 DAYS.

3. After concrete has cured and set for a minimum of 7 Days, attach Lat Pull Down to 3/4" Anchor Bolt using 3/4" Flat Washer (2" O.D.), 3/4" Lock Washer, and 3/4" Hex Nut. See Footing Assembly Detail.
4. Attach Base Cover to Equipment Post using Base Cover Nut and Base Cover Bolt included with Base Cover. See Base Cover Detail.
5. Attach Handles to Chest Press Assembly using Bolt Base and Cap, 1/2" x 1 1/4" B.H.C.S., 1/2" Flatwashers, and Machined Shaft. See Handle assembly detail.
6. Attach Seat to Lat Pull Down Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 5/16" Lockwasher, and 5/16 Flatwasher. See ADA Seat Detail. Attach Cushion using hardware provided with Cushion, see Cushion Detail.
7. Insert injection molded cap to top of assembly. See 5" Cap Detail.

INSTALLATION INSTRUCTIONS FOR UP180S (IN-GROUND):

1. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
2. Attach the Footbuck Weld Assembly to the Lat Pull Down using 3/4" Hex Nut, 3/4" Lockwasher, 3/4" Flatwasher (2" O.D.), and 3/4" x 2" Hex Head Cap Screw. See In-Ground Assembly Detail.
3. Place Lat Pull Down into hole making sure it rests on the brick. See In-Ground Detail.
4. Level Lat Pull Down using sway bracing.
5. Pour concrete according to the Plan View and Elevation View. Allow concrete to cure for a minimum of 7 days.
6. Attach Base Cover to Equipment Post using Base Cover Detail.
7. Remove internal components from ADA Handle. See ADA Handle Assembly detail.
8. Attach Handles to Chest Press Assembly using Bolt Base and Cap, 1/2" x 1 1/4" B.H.C.S., 1/2" Flatwashers, and Machined Shaft. See Handle assembly detail.

UP180J LAT PULL DOWN ACCESSIBLE (FOOTING) *UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)* *UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)*

9. Attach Seat to Lat Pull Down Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 5/16" Lockwasher, and 5/16 Flatwasher. See ADA Seat Detail. Attach Cushion using hardware provided with Cushion, see Cushion Detail.
10. Insert injection molded cap to top of assembly. See 5" Cap Detail.

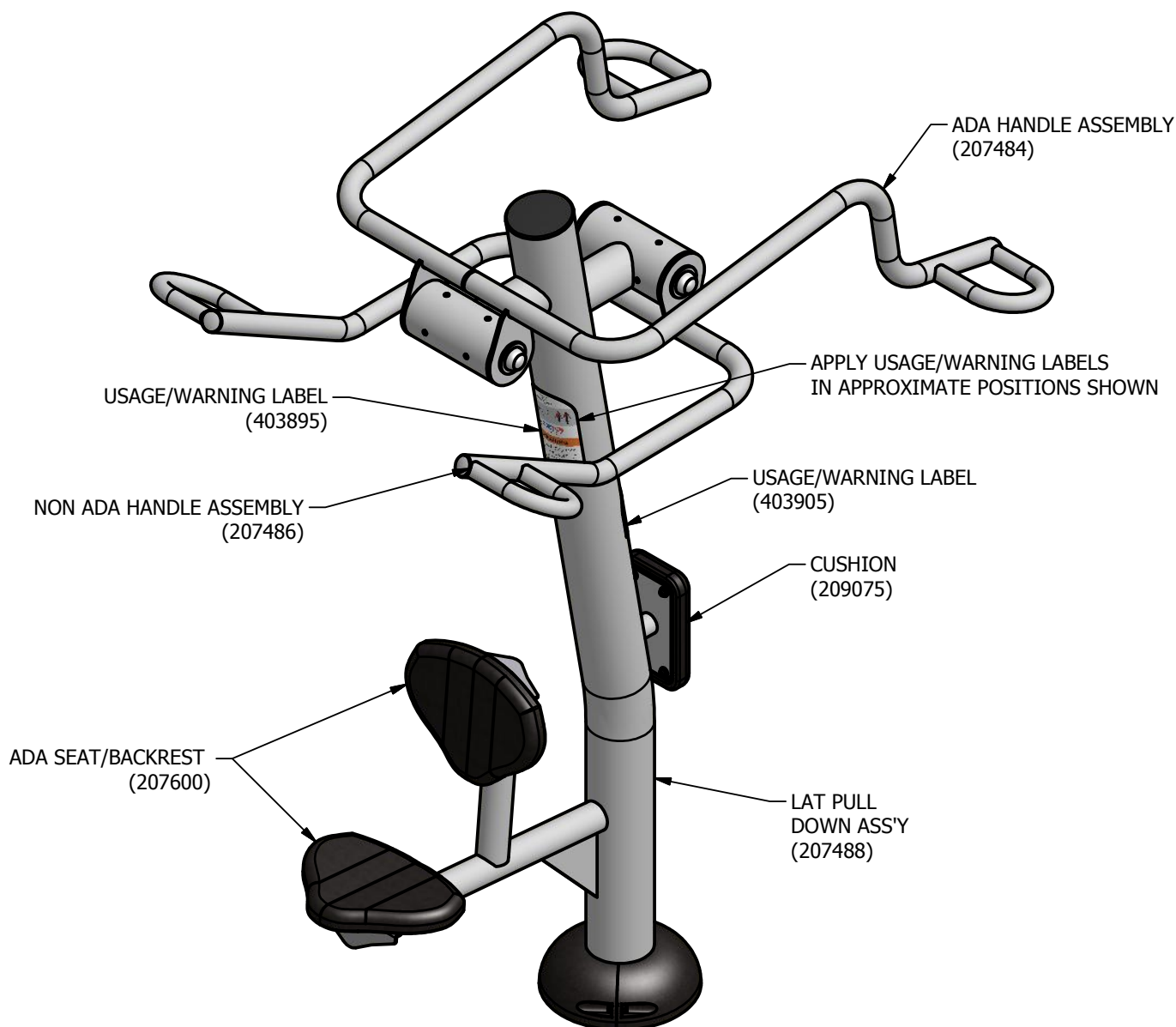
INSTALLATION INSTRUCTIONS FOR UP180SM (SURFACE):

1. Mark correct location of holes for Wedge Anchor using the Base Plate as a guide.
2. Drill 3/4" x 2 1/2" hole in concrete for Wedge Anchor. See Surface Detail.
3. Insert Wedge Anchors and secure with 3/4" Flatwasher (2" O.D.), 3/4" Lockwasher, and 3/4" Hex Nut. See Surface Assembly Detail.
4. Attach Base Cover to Equipment Post using Base Cover Detail.
5. Attach Handles to Chest Press Assembly using Bolt Base and Cap, 1/2" x 1 1/4" B.H.C.S, 1/2" Flatwashers, and Machined Shaft. See Handle assembly detail.
6. Attach Seat to Lat Pull Down Assembly using 3/8" x 3/4" P.B.H.C.S. w/Patch, 5/16" Lockwasher, and 5/16 Flatwasher. See ADA Seat Detail. Attach Cushion using hardware provided with Cushion, see Cushion Detail.
7. Insert injection molded cap to top of assembly. See 5" Cap Detail.

UP180J LAT PULL DOWN ACCESSIBLE (FOOTING) UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND) UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)

MAINTENANCE PROCEDURE:

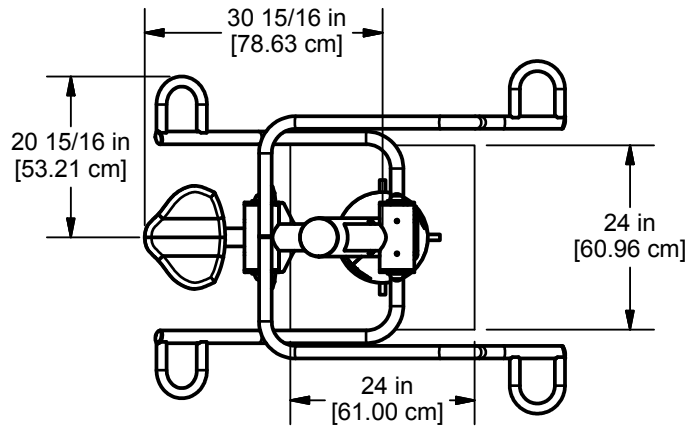
Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



FINISHED ASSEMBLY

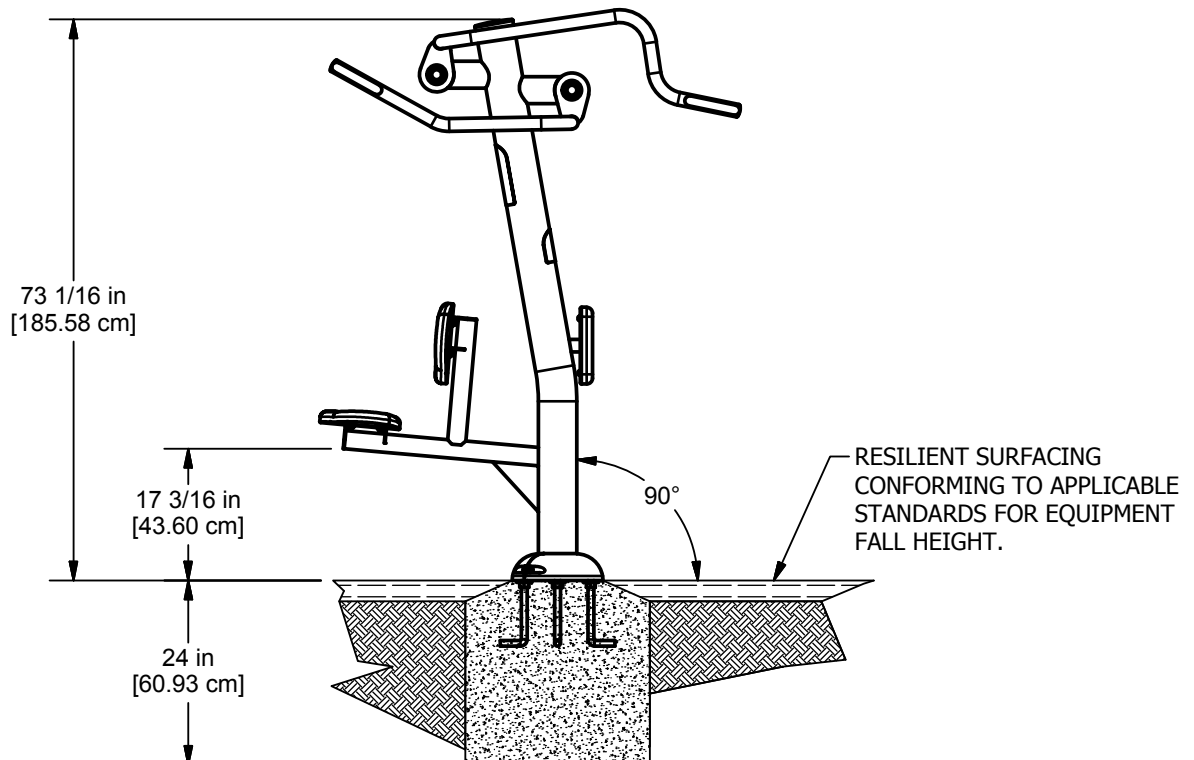
Issued/Revised: 10/3/16

UP180J LAT PULL DOWN ACCESSIBLE (FOOTING)
UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)
UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)



PLAN VIEW

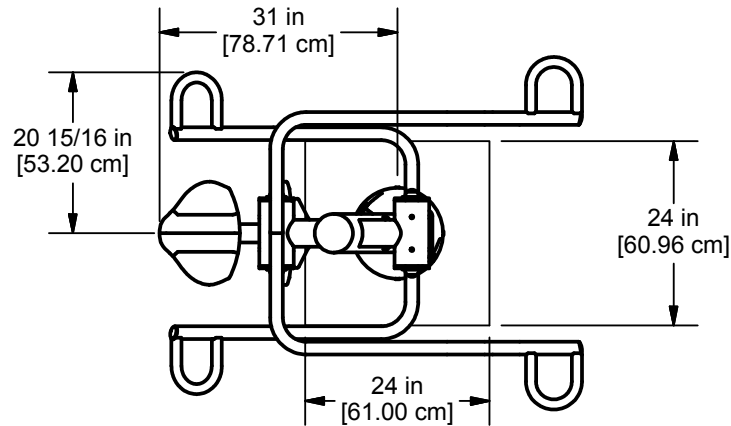
UP180J (FOOTING)



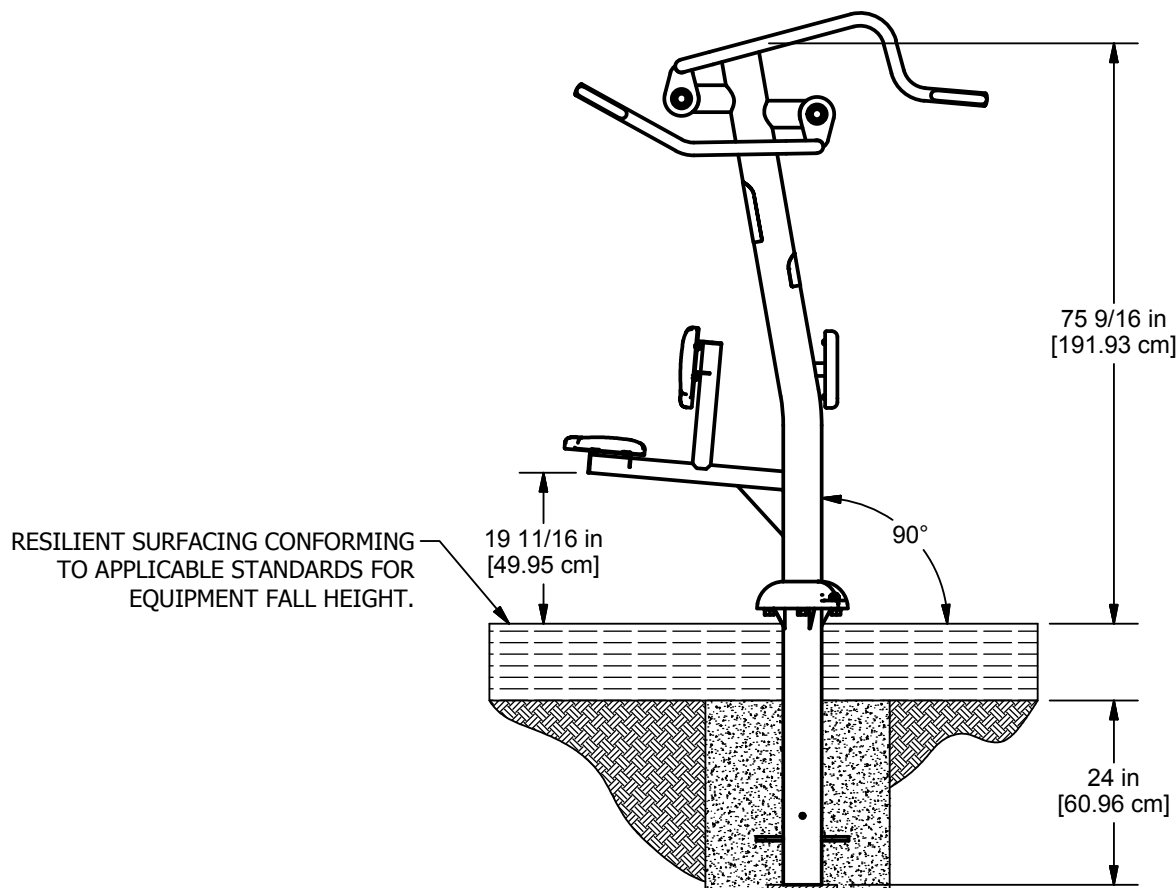
ELEVATION VIEW

UP180J (FOOTING)

UP180J LAT PULL DOWN ACCESSIBLE (FOOTING)
UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)
UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)

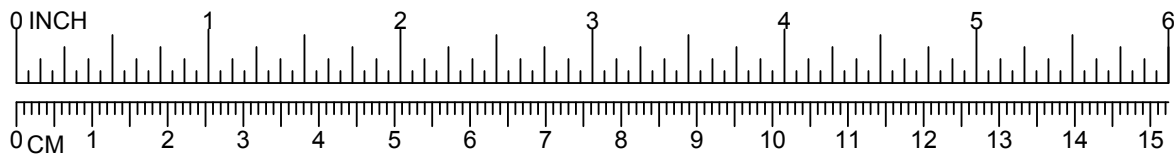


PLAN VIEW

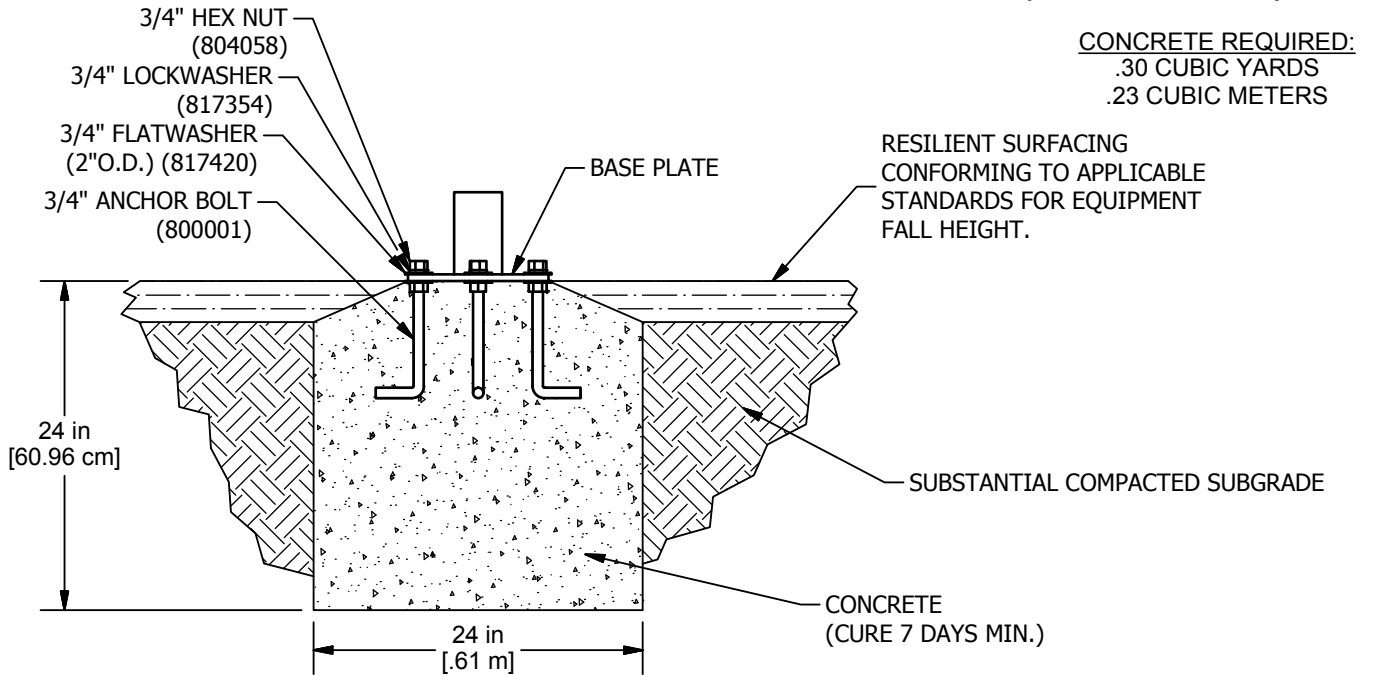


ELEVATION VIEW
UP180S (IN GROUND)

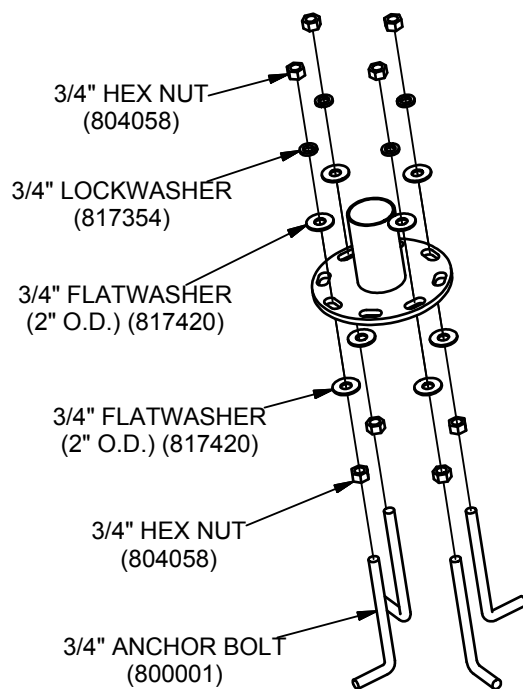
Issued/Revised: 10/3/16



UP180J LAT PULL DOWN ACCESSIBLE (FOOTING) **UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)** **UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)**



FOOTING DETAIL



NOTES:

-RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.

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

-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.

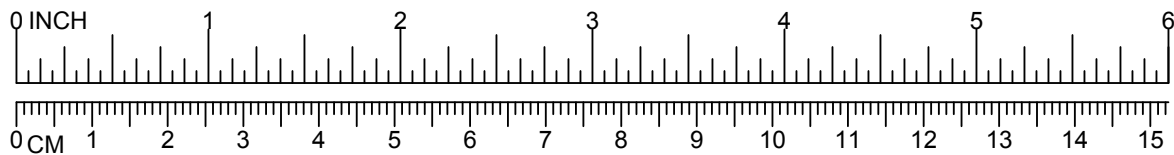
FOOTING ASSEMBLY DETAIL **UP180J (FOOTING)**

Issued/Revised: 10/3/16

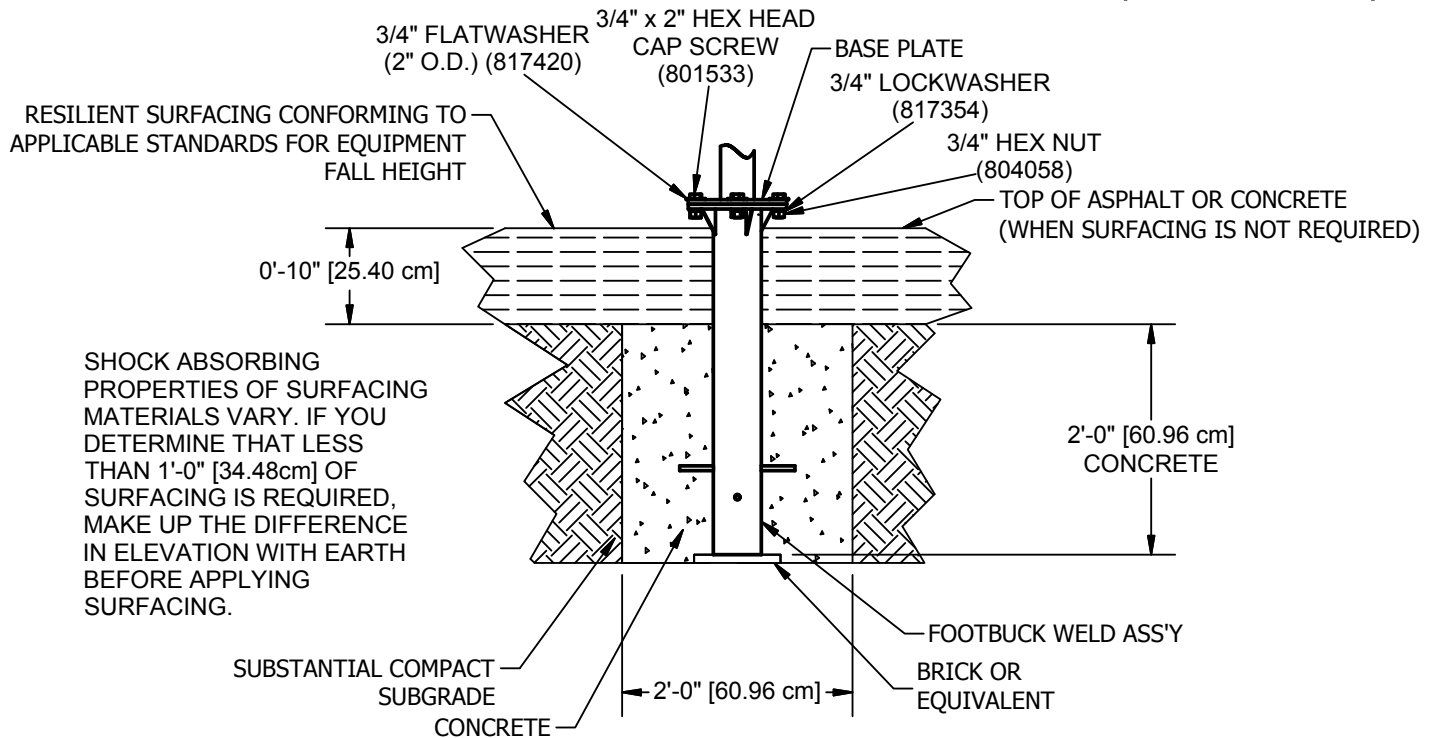


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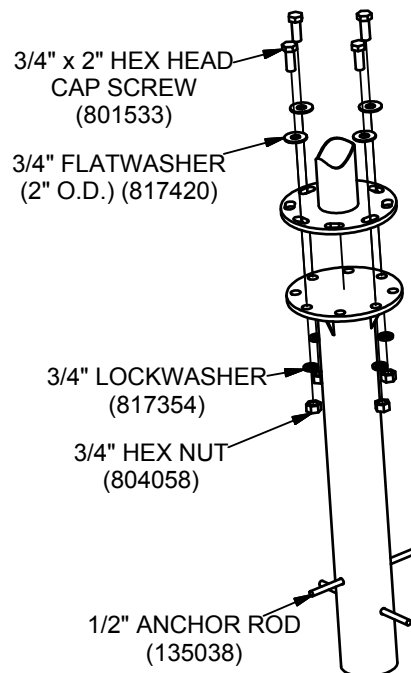
UP180J LAT PULL DOWN ACCESSIBLE (FOOTING) **UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)** **UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)**



CONCRETE REQUIRED:

.30 CUBIC YARDS
.23 CUBIC METERS

IN GROUND DETAIL



NOTE:

-RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.

-SLOPED FOOTING (45° MIN) IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.

-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.

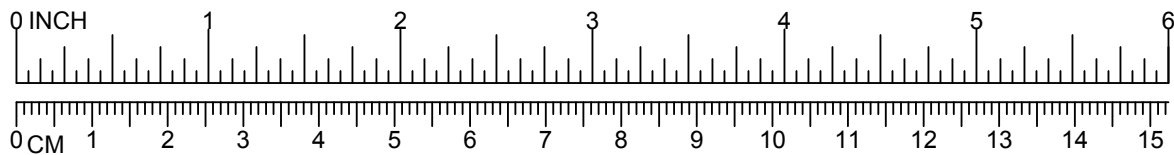
IN GROUND ASSEMBLY DETAIL **UP180S (IN GROUND)**

Issued/Revised: 10/3/16

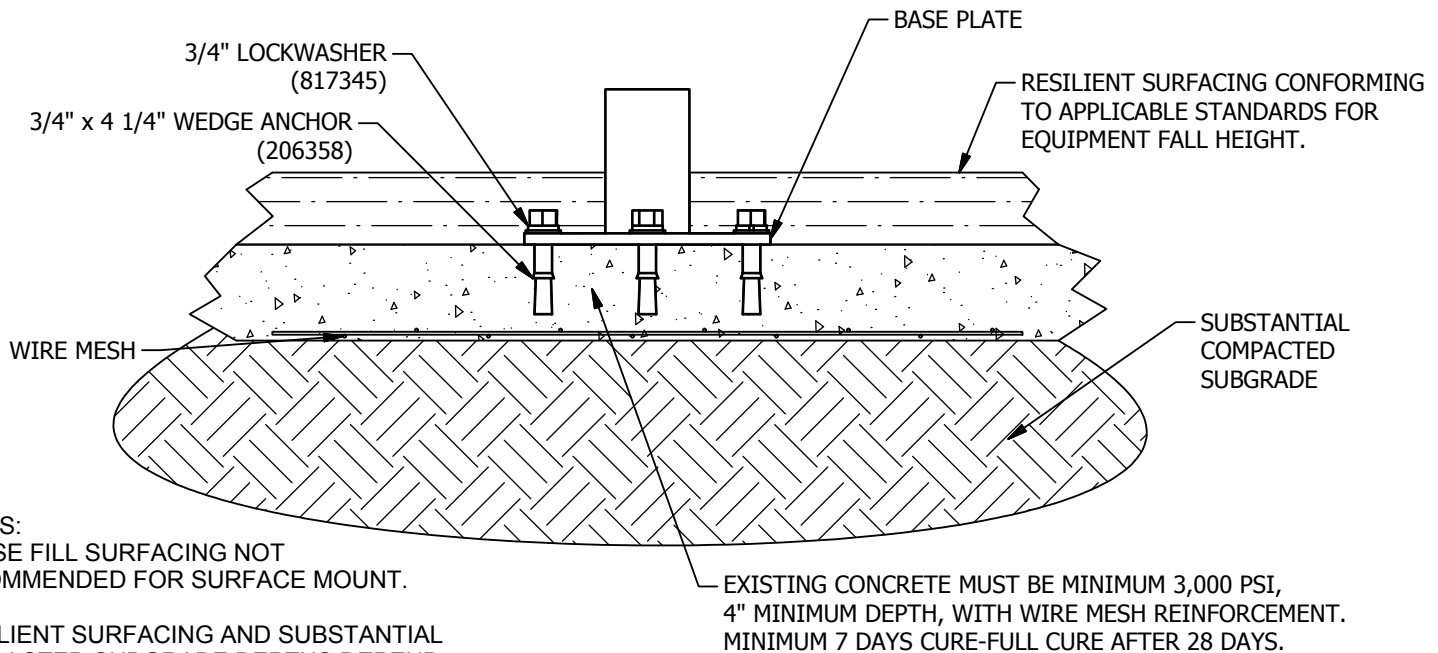


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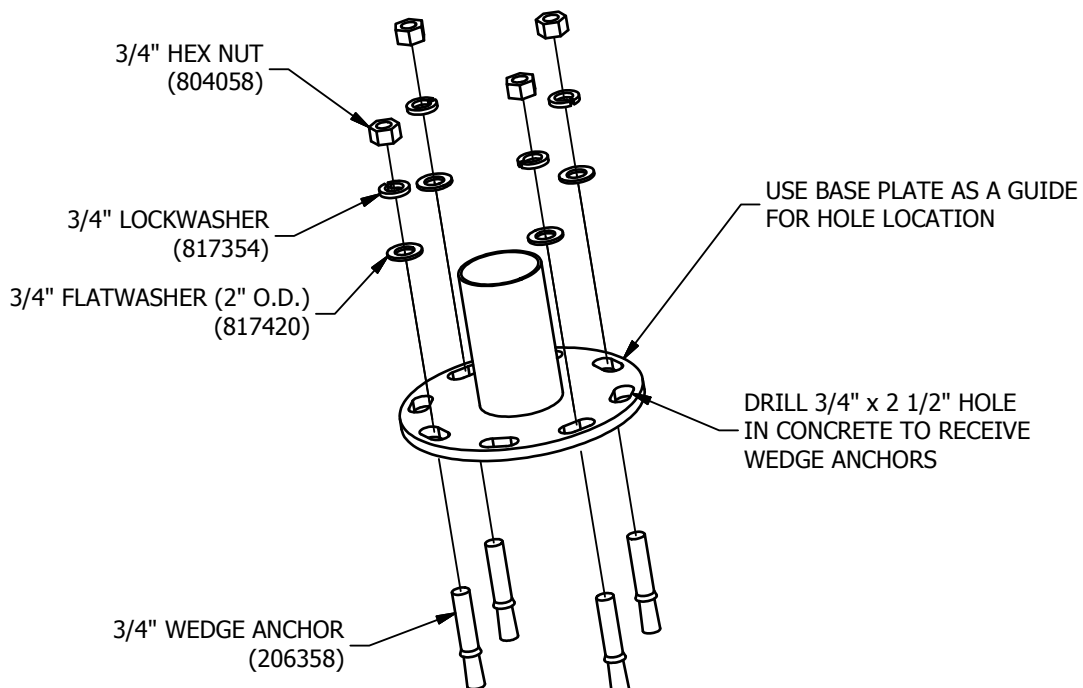
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UP180J LAT PULL DOWN ACCESSIBLE (FOOTING)
UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)
UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)



SURFACE DETAIL



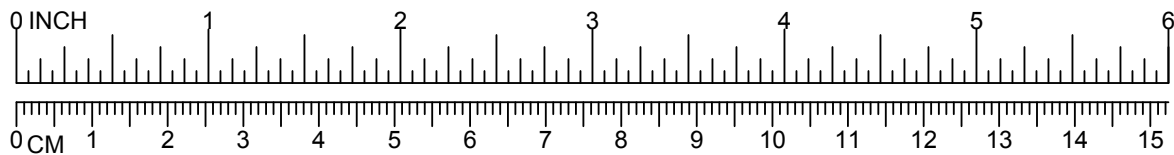
SURFACE ASSEMBLY DETAIL
UP180SM (SURFACE)

Issued/Revised: 10/3/16

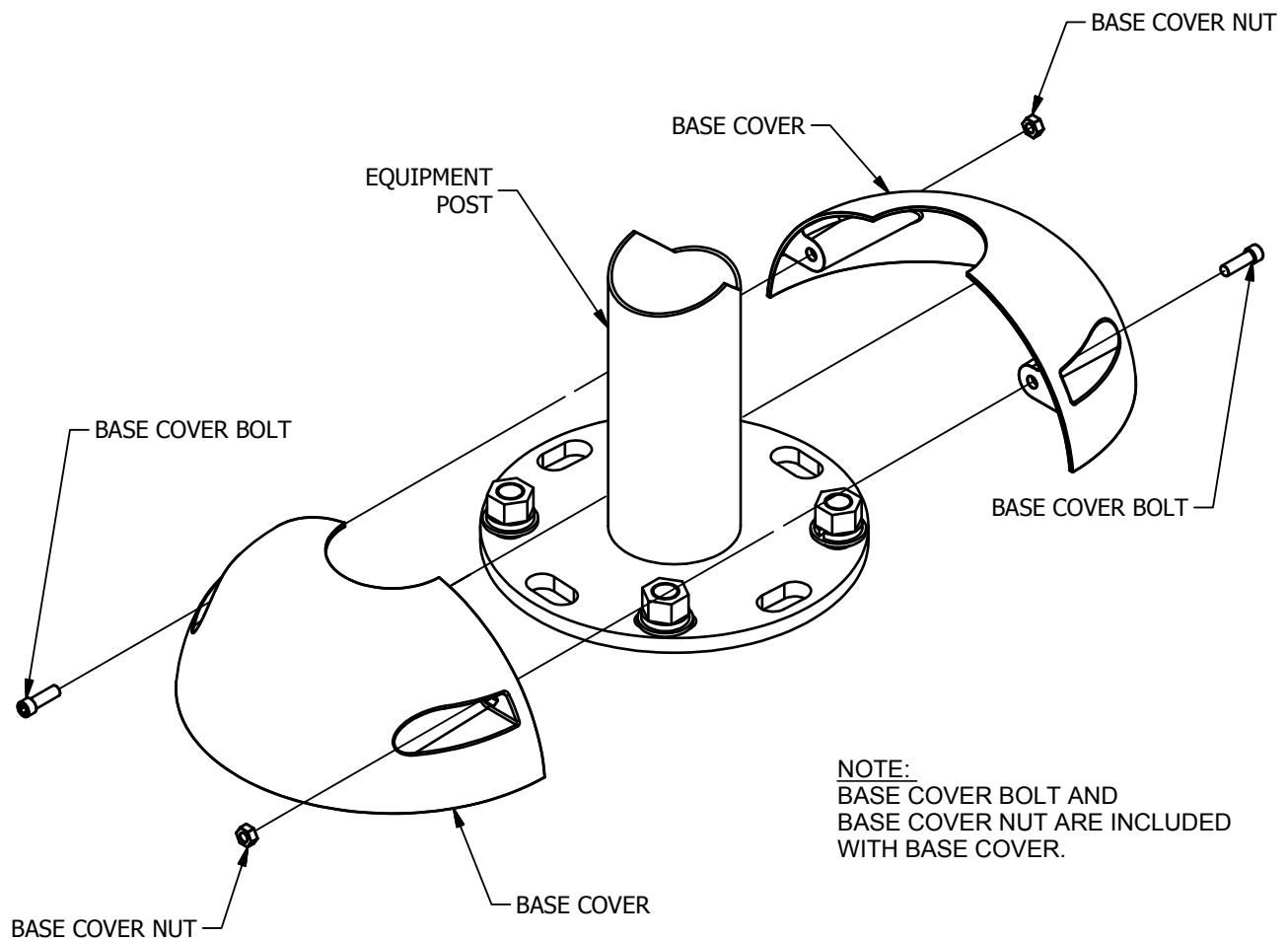


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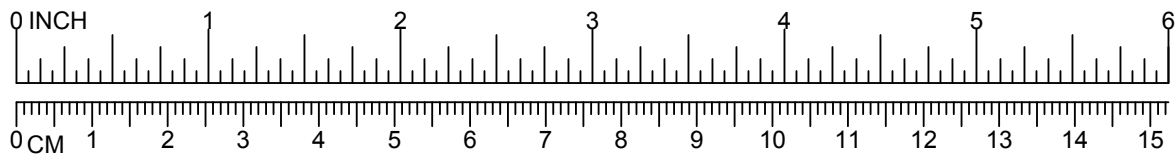
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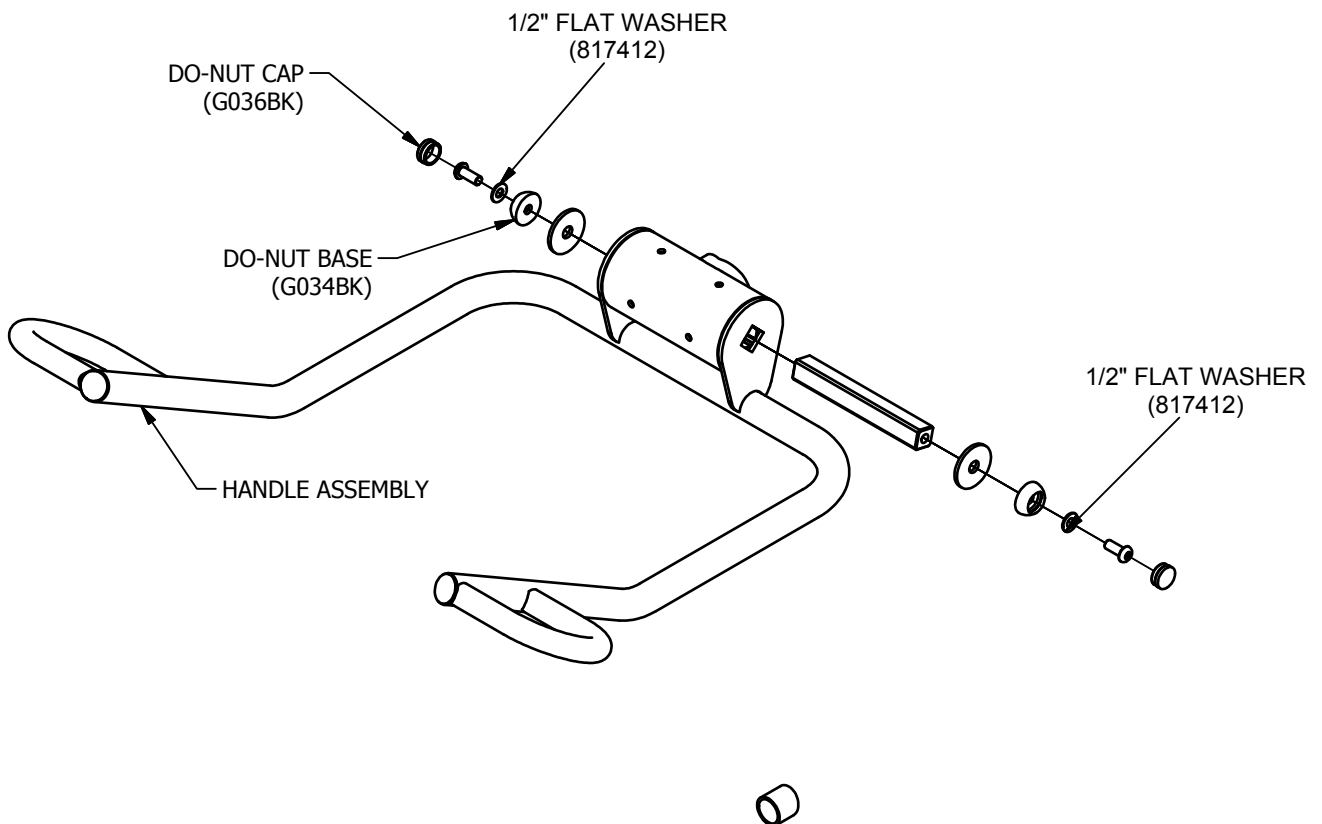
UP180J LAT PULL DOWN ACCESSIBLE (FOOTING)
UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)
UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)



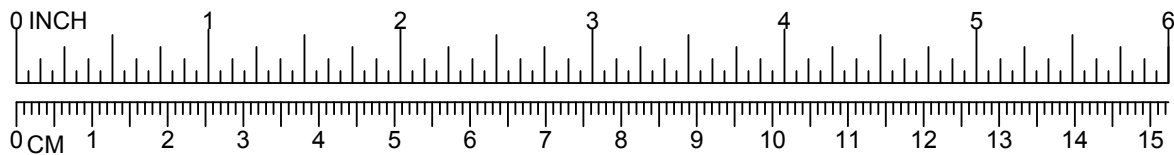
BASE COVER DETAIL



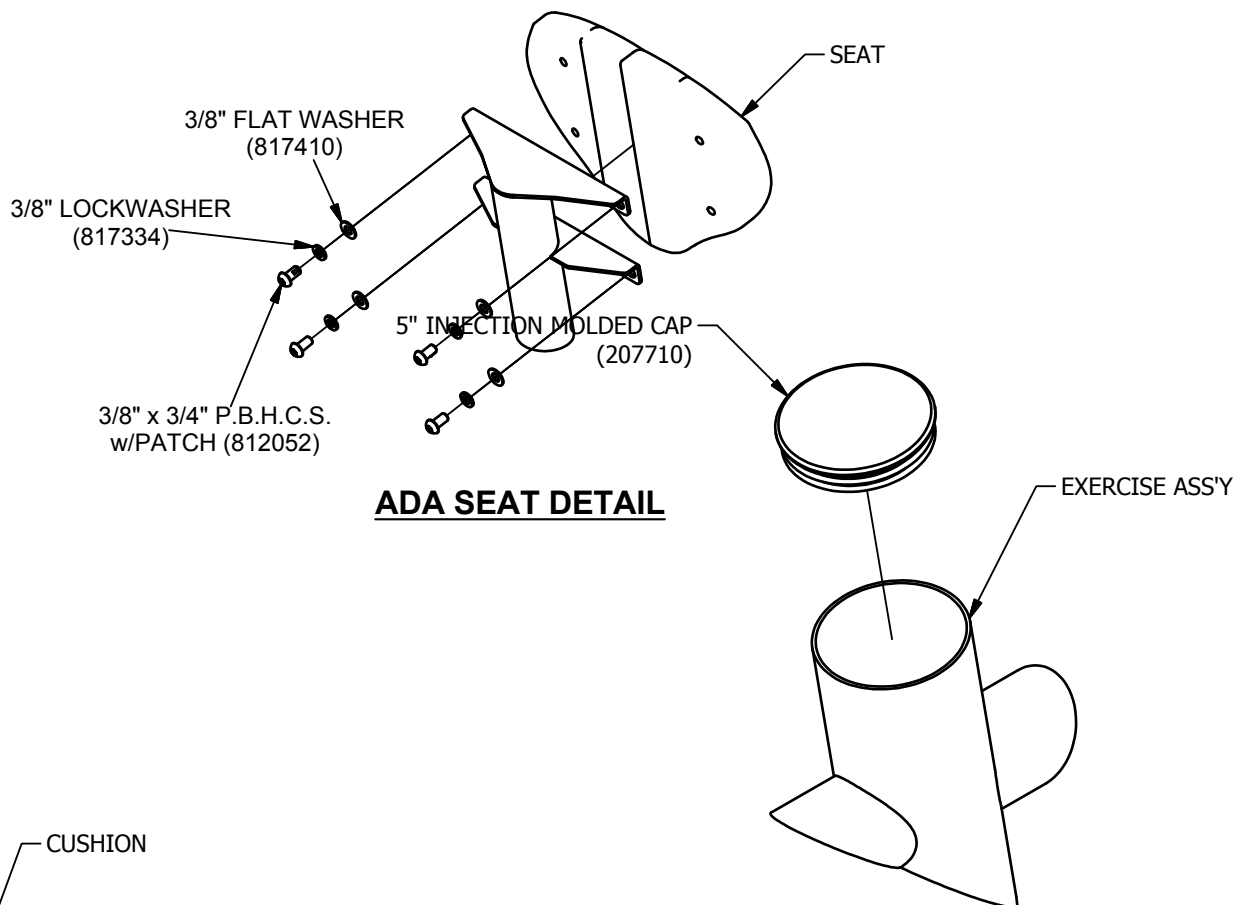
UP180J LAT PULL DOWN ACCESSIBLE (FOOTING)
UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)
UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)



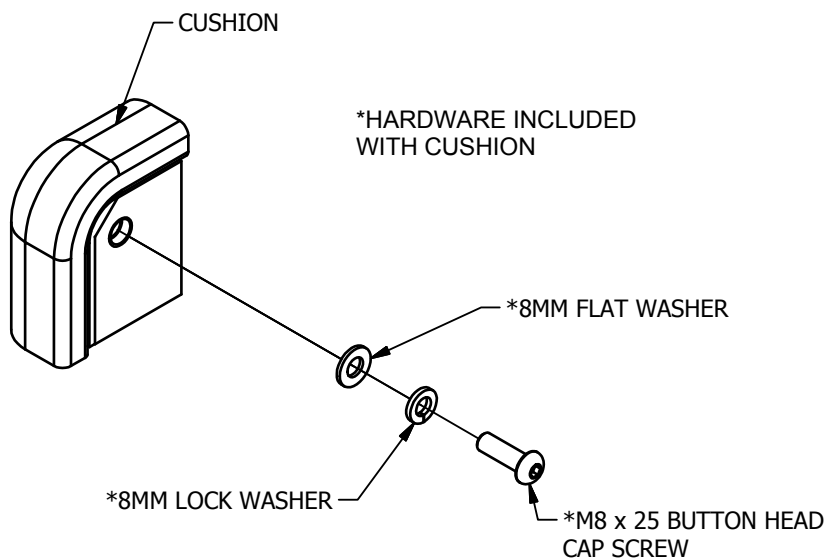
HANDLE ASSEMBLY DETAIL



UP180J LAT PULL DOWN ACCESSIBLE (FOOTING)
UP180S LAT PULL DOWN ACCESSIBLE (IN GROUND)
UP180SM LAT PULL DOWN ACCESSIBLE (SURFACE)



ADA SEAT DETAIL



CUSHION DETAIL

5" CAP DETAIL

UP189 MULTIGYM

Parts List		
DESCRIPTION	QTY	PART NUMBER
BAR WITH HANDLES	2	206981
HORIZONTAL CHIN-UP BAR	1	207114
TOP COVER	1	403362
18" PLYOMETRIC FRAME	1	403372
UPRIGHT 1	1	GRR4LL
UPRIGHT 2	1	GRR4LK
UPRIGHT 3	1	GRR4LN
UPRIGHT 4	1	GRR4LM
HARDWARE COMPLETE	1	403487
3/8" x 3/4" P.B.H.C.S. w/PATCH	4	812052*
3/8" x 1" P.B.H.C.S. w/PATCH	12	812050*
3/8" LOCKWASHER	16	817334*
3/8" FLAT WASHER	4	817410*
3/8" BARREL NUT	4	804804*
1/2" ANCHOR ROD	5	135038*
CHIN-UP USAGE/WARNING LABEL	1	403879*
HORIZONTAL CHIN-UP USAGE/WARNING LABEL	1	403868*
PUSH UP STATION USAGE/WARNING LABEL	1	403880*

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

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. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement.

Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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.

SPECIFICATIONS:

Top cover: Shall be 3/4" HDPE Densetec Anti-skid Diamond Texture Sheet.

Plyometric Frame: Shall have a 5" (.12w) galvanized pipe with a 12Ga. hot rolled steel top.

Uprights - Aluminum The posts shall be 3 1/2" O.D. with a 0.125" wall thickness 6061-T6 extruded seamless Aluminum tubing conforming to ASTM B-221 and QQ-A 200/8. Tensile strength is 44,962 psi, and yield strength is 39,885 psi. Entire post is polyester powder-coated after fabrication. A cast aluminum cap of matching color is factory riveted into the top end using two aluminum rivets.

Horizontal Chin-Up Bar: The Horizontal Chin-Up Bar assembly shall be constructed of 1.315" O.D. (12 GA) galvanized pipe and 3/16" steel tabs. The Crossbar shall be an all welded construction and coated with a custom formula of TGIC polyester powder coating after fabrication.

Bar with Handles: The Bar with Handles assembly shall be constructed of 1.315" O.D. (12 GA) galvanized pipe, 1.029 O.D. galvanized pipe and 3/16" stainless steel tabs. The Crossbar shall be an all welded construction and coated with a custom formula of TGIC polyester powder coating after fabrication.

Issued/Revised: 2/7/2017

UP189 MULTIGYM

SPECIFICATIONS:

Hardware: All nuts, bolts, screws, and lock washers used in the assembly 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.

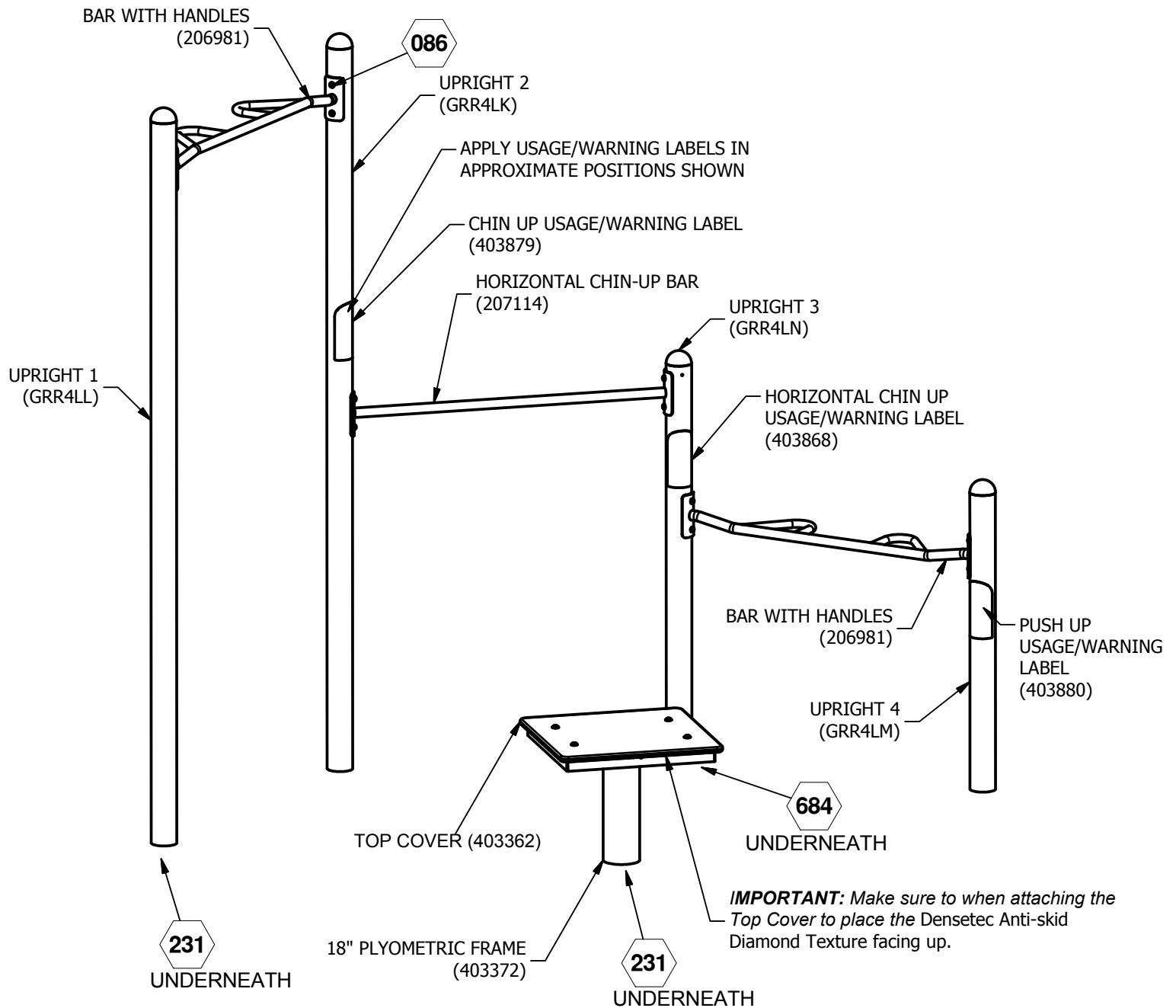
INSTALLATION INSTRUCTIONS:

1. Dig footing holes as shown in Plan and Elevation Views. Place brick or equivalent in the bottom of hole to provide a solid foundation.
2. Attach Top Cover to Plyometric Frame using 3/8" x 3/4" P.B.H.C.S. w/Patch, 3/8" Lock Washer, 3/8" Flat Washer, and 3/8" Barrel Nut. See Detail 684. **IMPORTANT:** Make sure when attaching the Top Cover to place the Densetec Anti-skid Diamond Texture facing up.
3. Attach 1/2" Anchor Rod to Plyometric Frame and Upright. See Detail 231.
4. Attach the Horizontal Chin-Up Bar to Upright 2 & 3 using 3/8" x 1" P.B.H.C.S. w/Patch and 3/8" Lockwasher. See Detail 086.
5. Attach the Bar with Handles to Upright 1 & 2 using 3/8" x 1" P.B.H.C.S. w/Patch and 3/8" Lockwasher. See Detail 086.
6. Attach the Bar with Handles to Upright 3 & 4 using 3/8" x 1" P.B.H.C.S. w/Patch and 3/8" Lockwasher. See Detail 086.
7. Attach the Chin-Up Station Name Plate to Upright 2 using Pop Rivet. See Detail 322.
8. Attach the Horizontal Chin-Up Name Plate to Upright 3 using Pop Rivet. See Detail 322.
9. Attach the Push-Up Station Name Plate to Upright 4 using Pop Rivet. See Detail 322.
10. Plumb and level the entire assembly and tighten all fasteners.
11. After entire unit is assembled, pour concrete footings within 4" to the top and taper away from posts for water drainage. Allow to cure at least 48 hours before use. Note: Temporary bracing may be required until concrete cures.
12. When the structure is finished and satisfactory, eliminate sharp points and sharp edges (burring) on installed hardware like bolts, nuts, etc.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

UP189 MULTIGYM

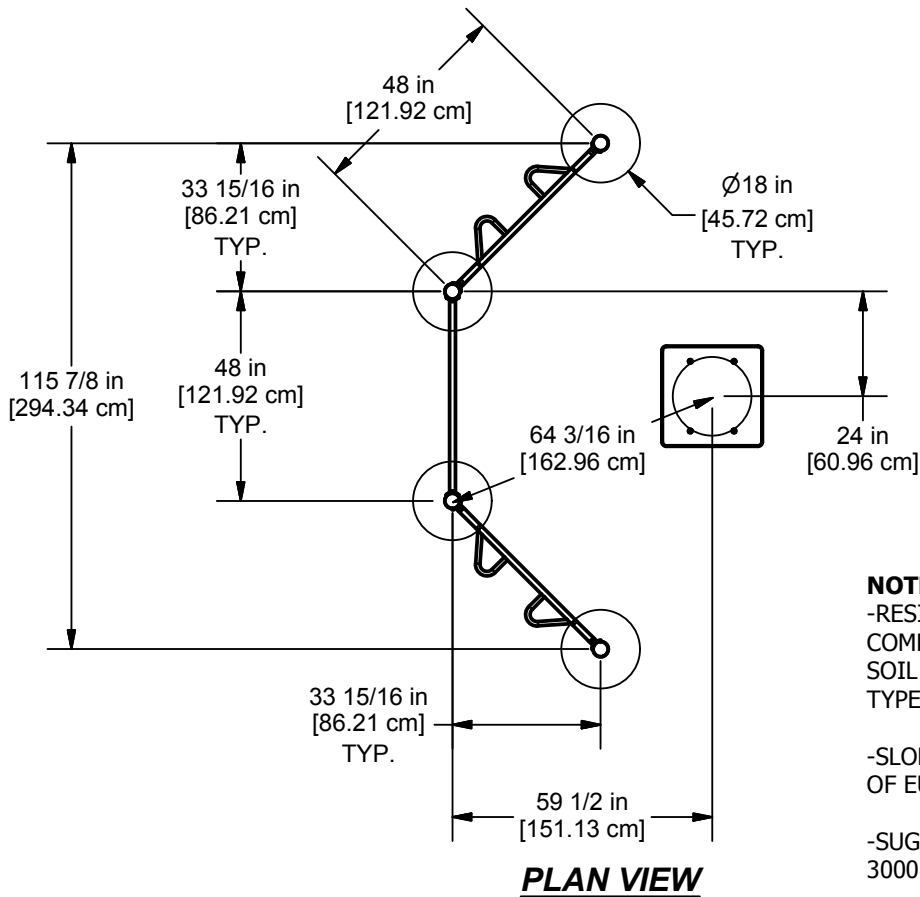


FINISHED ASSEMBLY

⬡ = INSTALLATION DETAIL

Issued/Revised: 2/7/2017

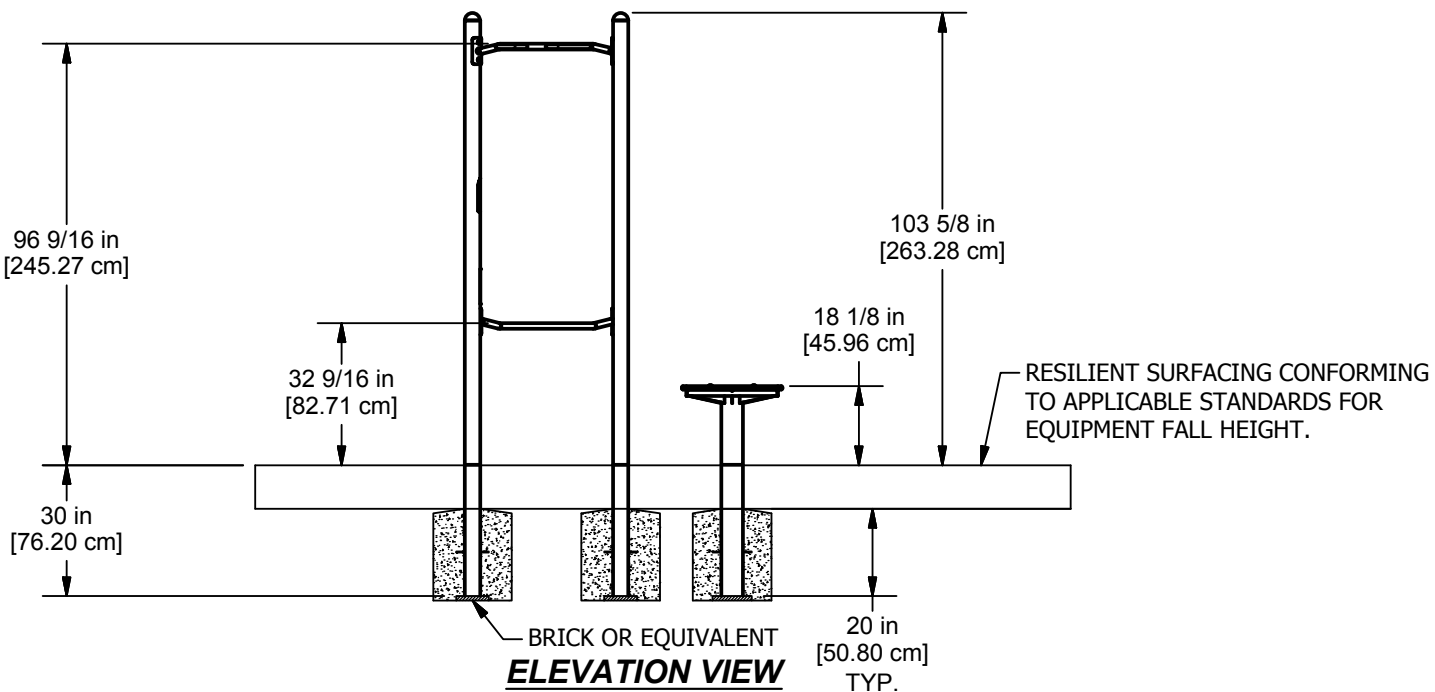
UP189 MULTIGYM



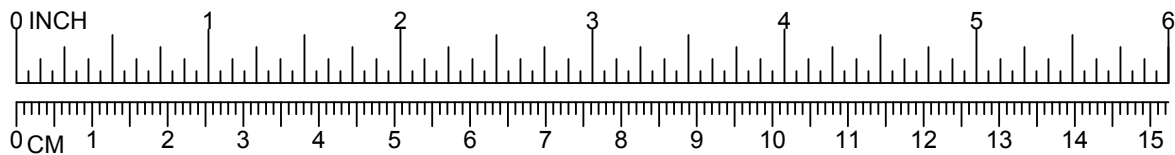
CONCRETE REQUIRED
 .545 CUBIC YARDS
 .415 [CUBIC METERS]

NOTES:

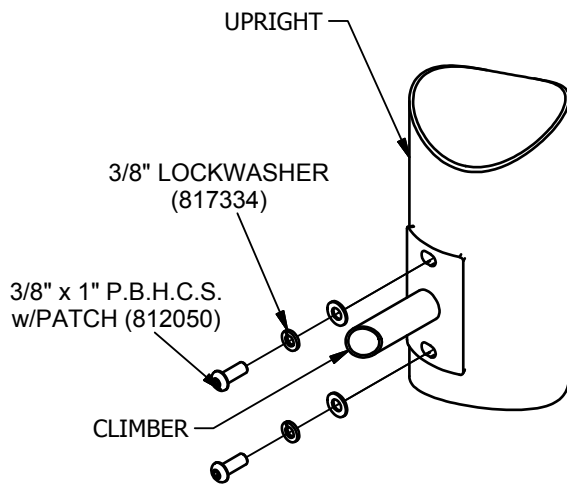
- RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
- SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.



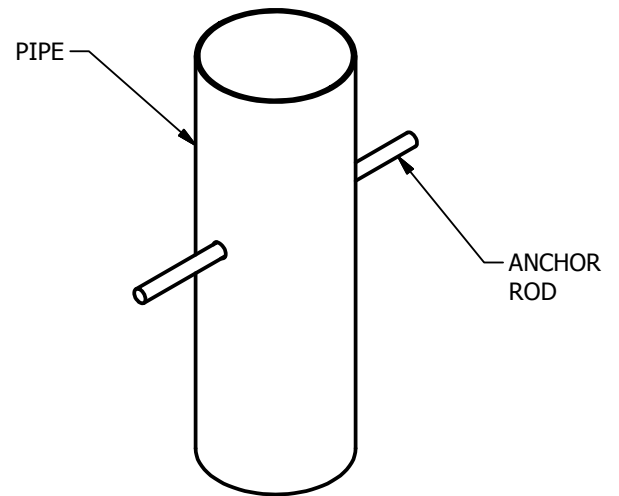
Issued/Revised: 2/7/2017



UP189 MULTIGYM

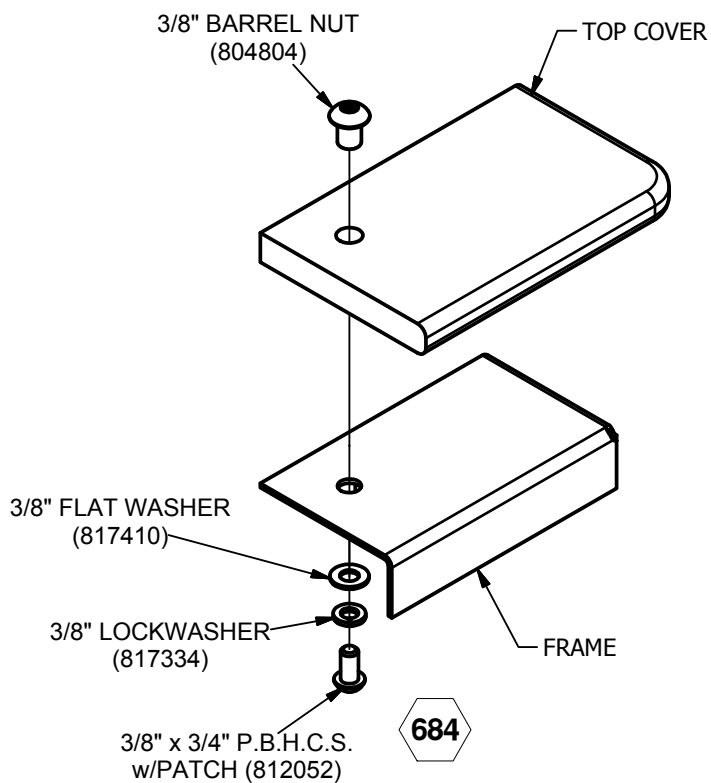


086



231

IMPORTANT: Make sure when attaching the Top Cover to place the Densetec Anti-skid Diamond Texture facing up.



684

Issued/Revised: 2/7/2017



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UP197 USAGE/WARNING LABEL SIGN POST

Parts List			
ITEM	DESCRIPTION	QTY	PART NUMBER
1	USAGE/WARNING LABEL SIGN POST	1	212030

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

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. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement.

Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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.

SPECIFICATIONS:

SIGN POST ASSEMBLY: Shall be an all welded assembly fabricated from 1.315" O.D. 14 gauge (.083) galvanized steel pipe for the upright post, and a 3/16" thick hot rolled steel laser cut plate. Assembly shall be powder coated after fabrication.

POWDER COATING: Powder-coat shall be an electrostatic ally 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 multi stage bath system including a rust inhibitor, and a sealer to prevent flash rusting before coating. The 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-522-68), 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), Oven-bake Stability 100% at 400 degrees Fahrenheit.

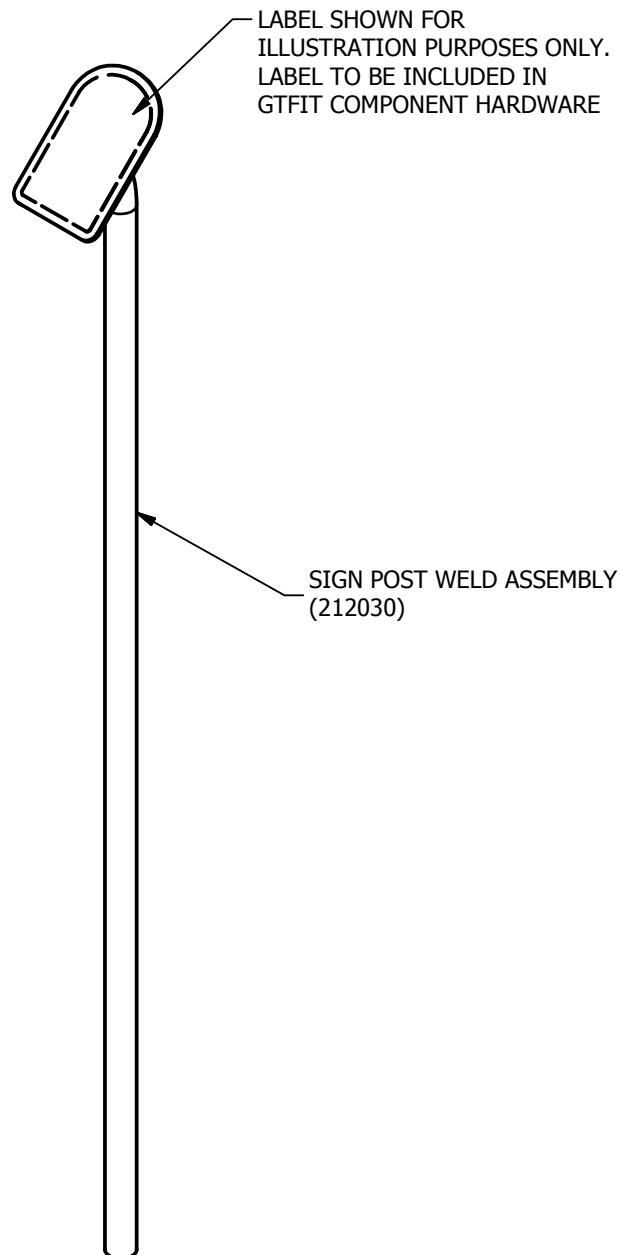
INSTALLATION INSTRUCTIONS:

1. Dig required holes. Place a brick or equivalent in the bottom of holes to provide a solid foundation. See Elevation and Plan views.
2. Apply Usage/Warning Label to Sign Post mounting plate as shown in Label Application Detail.
3. Place Assembly into center of ground hole. Plumb and level Assembly.

UP197 USAGE/WARNING LABEL SIGN POST

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



SIGN MUST BE OUTSIDE MAXIMUM SPACE IN WHICH THE USER AND EXERCISE EQUIPMENT COMPONENTS TRAVERSE WHEN THE EQUIPMENT IS OPERATED.

FINISHED ASSEMBLY

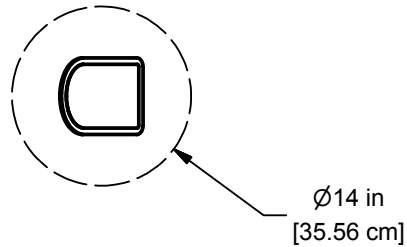
Issued/Revised: 8/1/16



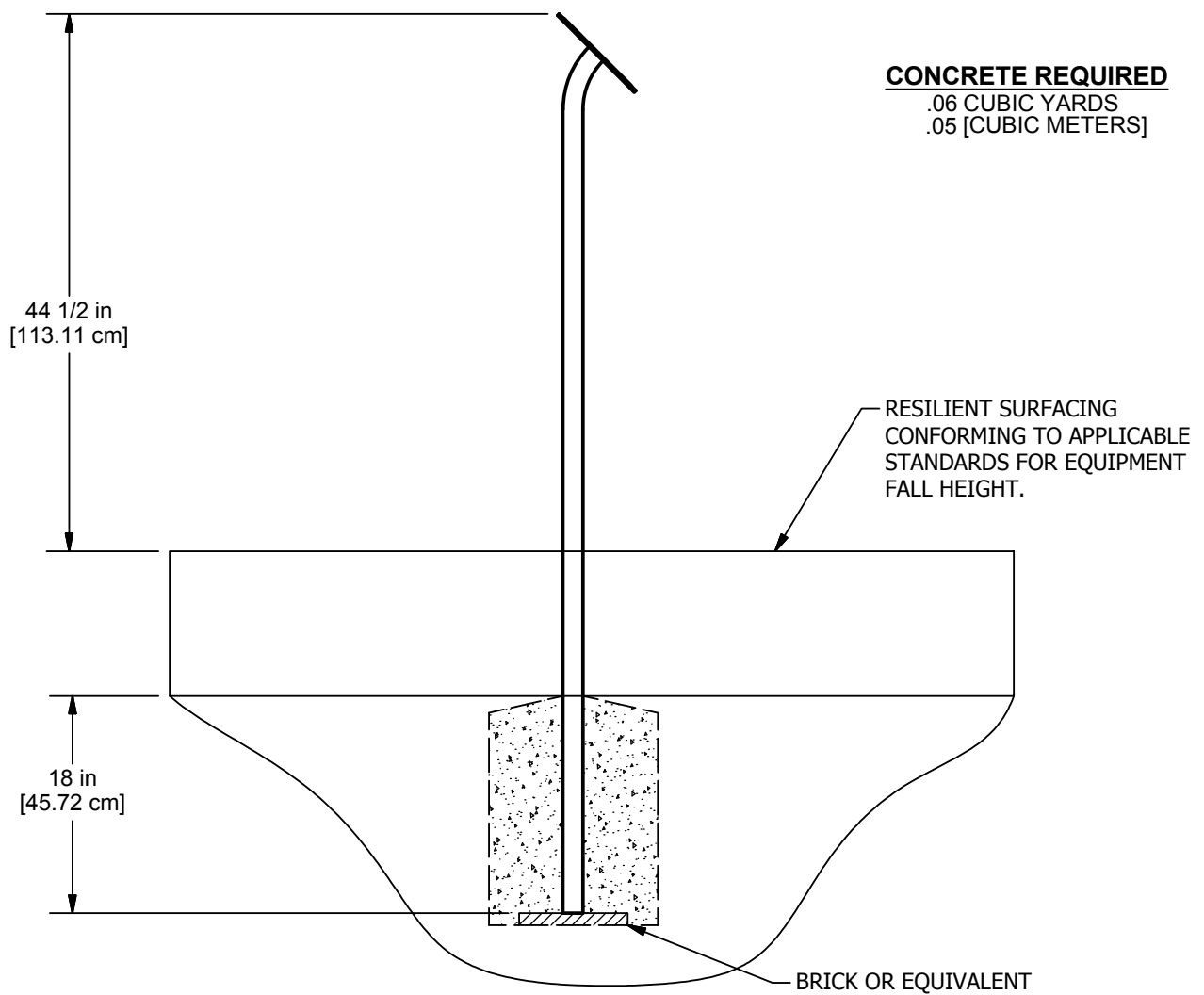
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UP197 USAGE/WARNING LABEL SIGN POST



PLAN VIEW



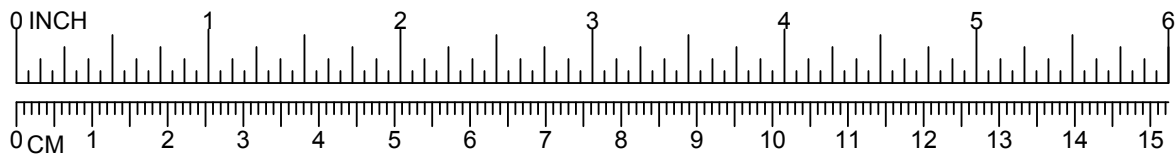
ELEVATION VIEW

Issued/Revised: 8/1/16

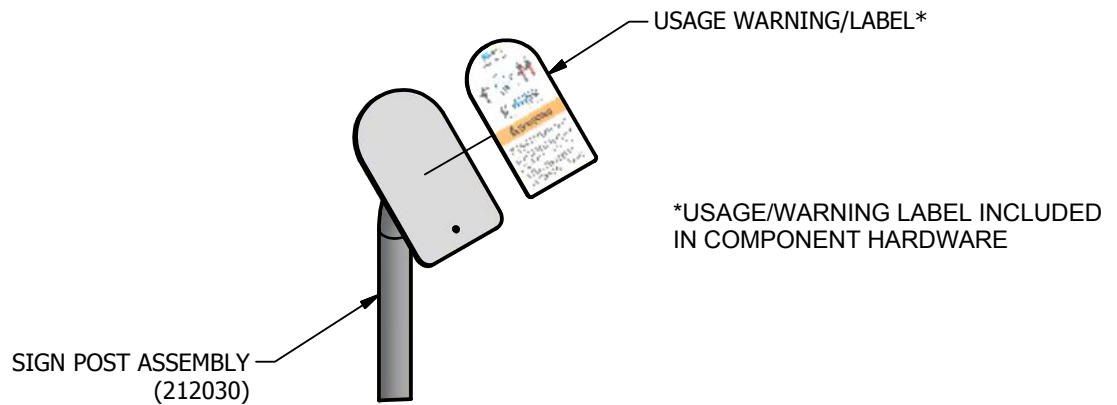


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UP197 USAGE/WARNING LABEL SIGN POST



USAGE/WARNING LABEL APPLICATION DETAIL



By **ultra site**
A **PLAYCORE** Company

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ISSUED/REVISED: 1/23/20

UP225

LEG EXTENSION

 = INSTALLATION
DETAIL

 = PARTS LIST
REFERENCE

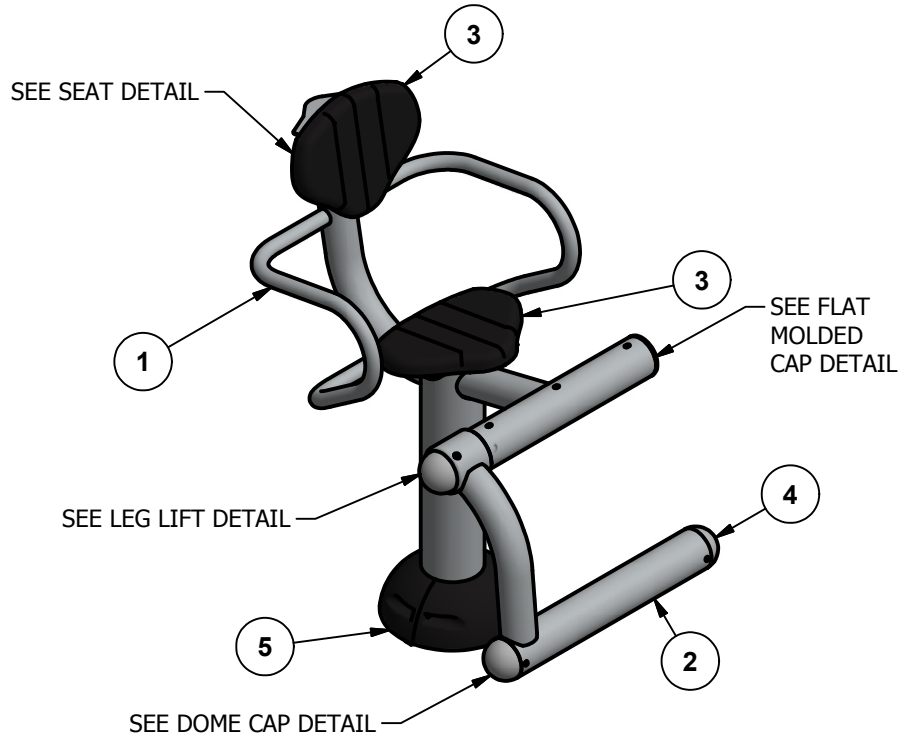
INSTALLATION INSTRUCTIONS:

Note: Read installation instructions thoroughly before starting assembly. Bracing material is required during assembly.

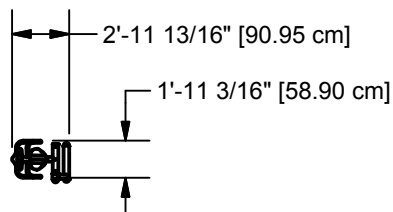
Surface Mount: Using Frame Assembly as template, mark hole locations for Wedge Anchors. Refer to Surface Mount Detail.

In-Ground Mount: Prepare ground hole(s) according to In-Ground Mount Detail. Attach Footback to Frame Assembly (refer to In-Ground Ass'y Detail). Place assembly in ground hole. Level using sway bracing. Pour concrete according to In-Ground Mount Detail. Allow concrete to cure for a minimum of 7 days.

LEG EXTENSION (SURFACE MOUNT) UP225SM
LEG EXTENSION (IN-GROUND) UP225S



ATTACH USAGE/WARNING
LABEL IN APPROXIMATE
POSITION SHOWN



TOP VIEW

ASSEMBLY DRAWINGS

Parts List				
REF	DESCRIPTION	UP225SM	UP225S	PART NUMBER
1	LEG EXTENSION FRAME ASS'Y	1	1	211639
2	LEG LIFT ASS'Y WITH BEARINGS	1	1	211645
3	SEAT/BACKREST	2	2	207600
4	3 1/2" DOME CAP	3	3	211492
5	5" BASE COVER	1	1	207659
	FOOTBUCK WELD ASS'Y	0	1	206467
	HARDWARE COMPLETE	1	0	408008
	HARDWARE COMPLETE	0	1	408007
6	USAGE/WARNING LABEL	1	1	403886*
	3/8" x 3/4" P.B.H.C.S.w/PATCH	8	8	812052*
	3/8" x 1 1/4" HEX HEAD BOLT (GRADE 8)	1	1	800811*
	3/8" FLAT WASHER	8	8	817410*
	3/8" LOCKWASHER	9	9	817334*
	3/4" x 2" HEX HEAD CAP SCREW	0	4	801533*
	3/4" x 4 1/4" WEDGE ANCHOR	4	0	206358*
	3/4" FLATWASHER (2" O.D.)	0	4	817420*
	3/4" LOCKWASHER	4	4	817354*
	3/4" HEX NUT	0	4	804058*
	1/2" ANCHOR ROD	0	2	135038*
	1/2" X 2 1/4" FLATWASHER	1	1	126925*
	3/16" x 13/32" DRIVE RIVET	4	4	805366*
	1/4-20 x 3/4" SS SELF DRILLING SCREW	2	2	810072*
	3 1/2" MOLDED CAP	1	1	212340*

*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.

SPECIFICATIONS

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

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 overtighten bolts. To overtighten may cause buckling or dimpling of some parts.

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

LEG EXTENSION FRAME WELD ASSEMBLY: Shall be fabricated from 5" O.D. x .120" (11 Gauge) wall galvanized steel tubing, 3-1/2" O.D. x .180" (7 Gauge) wall galvanized steel tubing, 2-7/8" O.D. x .134" (10 Gauge) wall galvanized steel tubing, 1-5/16" O.D. x .083" (14 Gauge) wall galvanized steel tubing, 3-1/4" O.D. C.R. Steel, 11 Gauge Thick H.R. Steel, 1/4" Thick H.R. Steel, and 1/2" Thick H.R. Steel. Leg Extension Frame 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 specifications outlined herein.

LEG LIFT ASSEMBLY: Shall be fabricated from 3-1/2" O.D. x .095" (13 Gauge) wall galvanized steel tubing, 2-7/8" O.D. x .134" (10 Gauge) wall galvanized steel tubing, 4" O.D. C.R. Steel, and 1" Square H.R. Steel. Leg Lift 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 specifications outlined herein.

SEAT/BACKREST: Shall be constructed from injection molded Nylon W6.

BASE COVER: Shall be constructed from aluminum and powder coated.

FOOTBUCK WELD ASSEMBLY: Shall be fabricated from 5" O.D. x .120" (11 Gauge) wall galvanized steel tubing, 1/8" Thick H.R. Steel, and 1/2" Thick H.R. Steel. Footbuck 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 specifications outlined herein.

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-3363), Impact (ASTM D-2794- 69), 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.

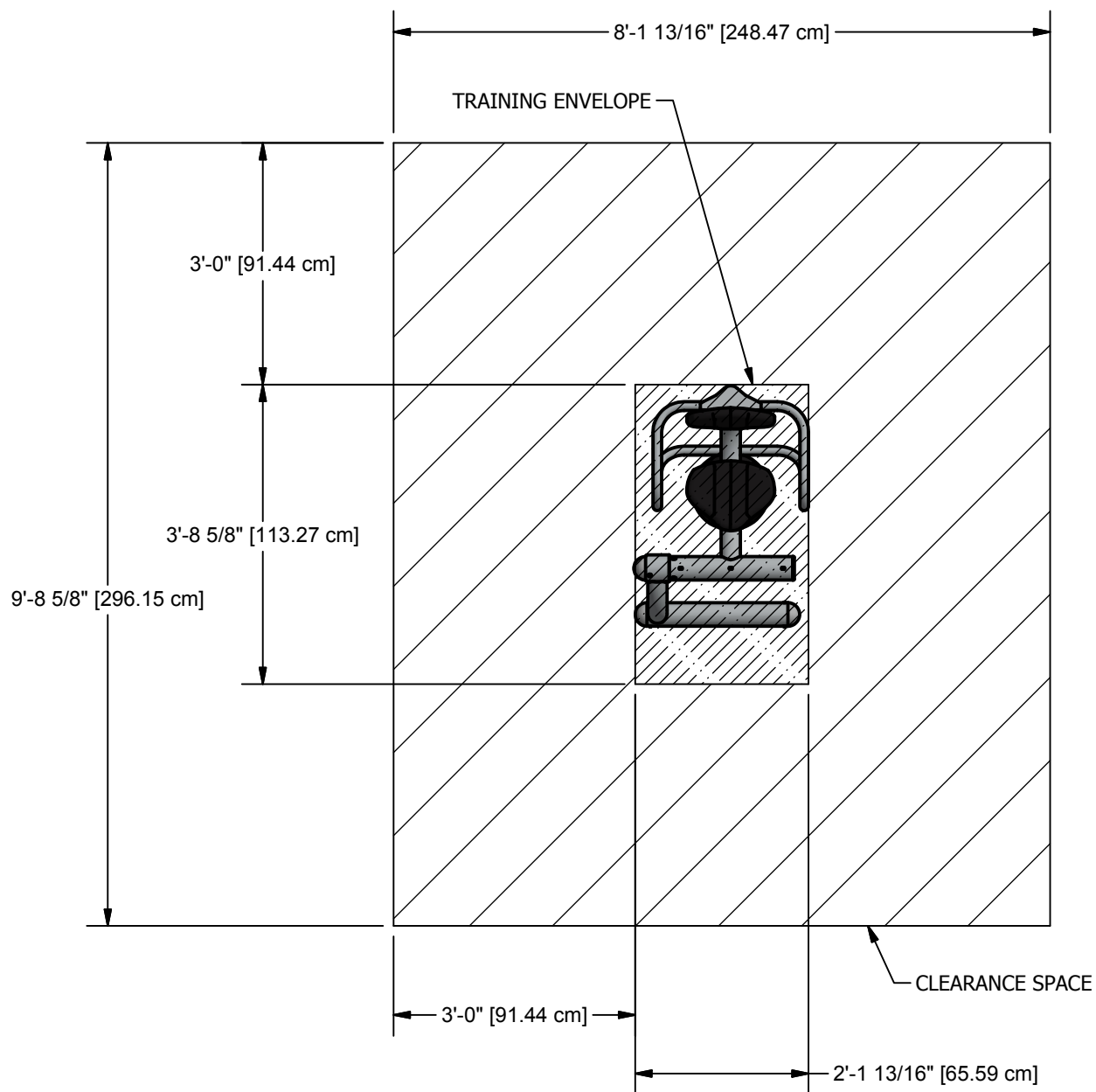
SPECIFICATIONS: ULTRASITE has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.



IMPORTANT PRODUCT INFORMATION AND SAFETY WARNINGS

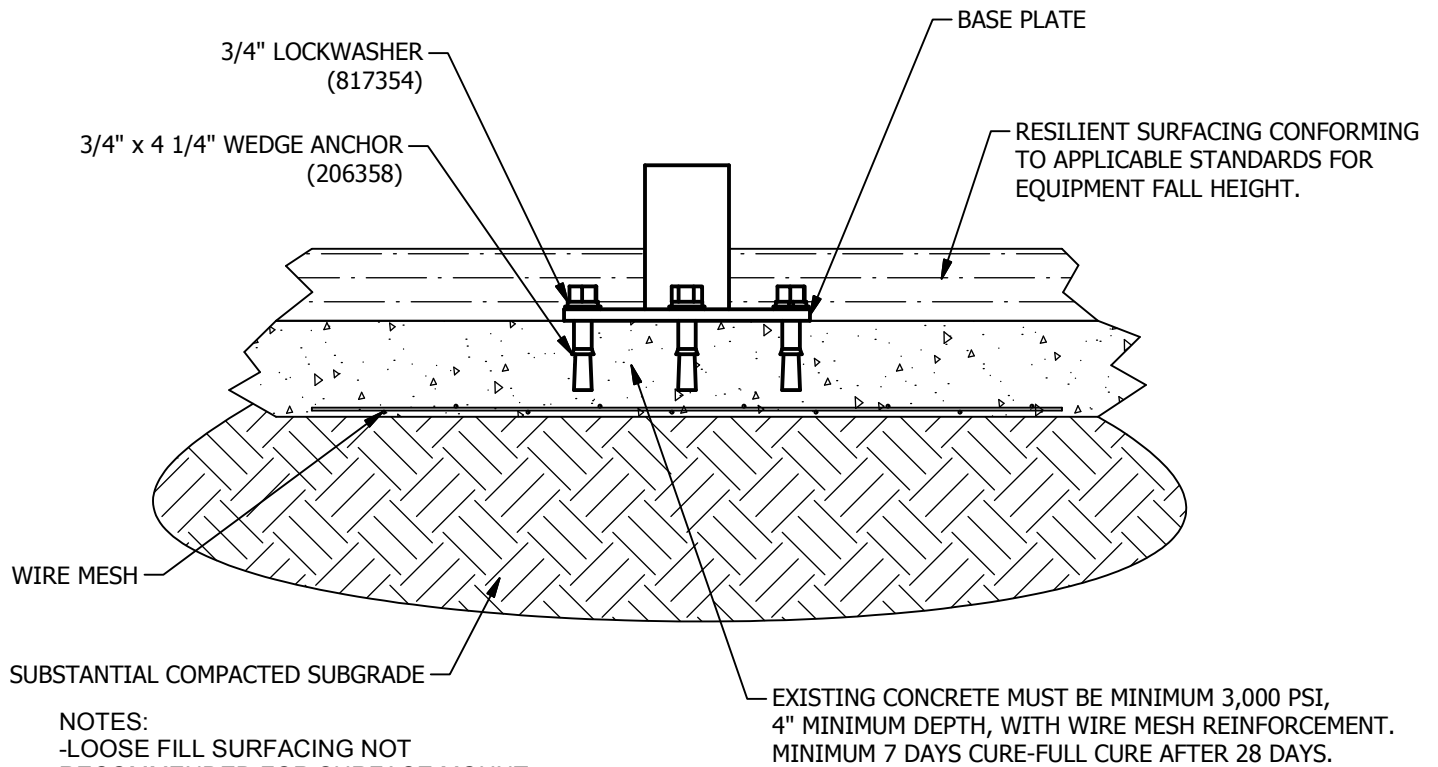


- ☐ Installation over a hard surface such as concrete, asphalt, or packed earth may result in serious injury or death from fails. Especially all elevated upper-body strength building equipment.
- ☐ ALWAYS FOLLOW INSTALLATION INSTRUCTIONS WHEN ERECTING EQUIPMENT.
- ☐ Worn surfaces around equipment should be restored. Concrete footings should never be exposed. Surface depth should comply with installation instructions.
- ☐ Equipment should be placed to eliminate conflicting traffic patterns.
- ☐ All equipment should be free of rust and repainted whenever necessary to deter rusting.
- ☐ All protruding nuts and bolts should be covered; 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 exercise 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.
- ☐ UTLRASITE® 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 checking of all parts, castings, etc. should be made. If a part is broken or worn it should be replaced immediately.
- ☐ Proper maintenance of UTLRASITE® equipment requires regular tightening of all bolts, nuts, and set screws.
- ☐ Check to be sure all fittings are tight and that the bars and pipes do not move.

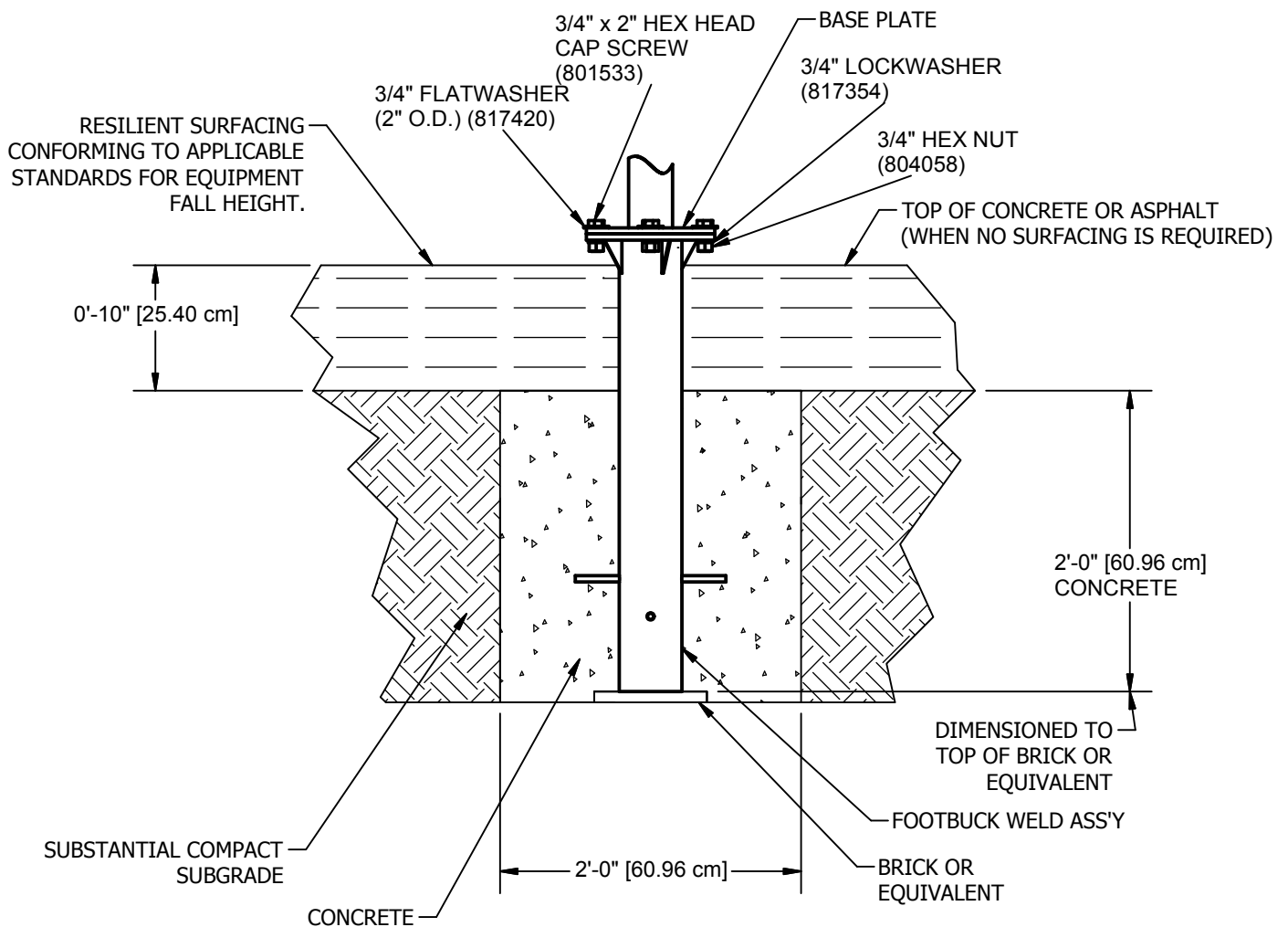
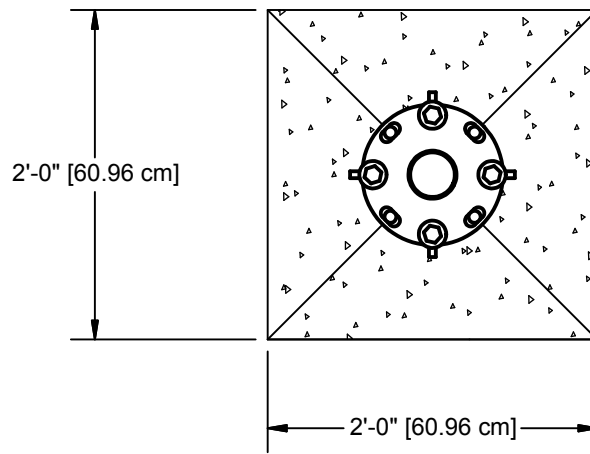


TRAINING ENVELOPE/CLEARANCE SPACE

NOTE: OWNER/OPERATOR SHALL KEEP THE TRAINING ENVELOPE AND CLEARANCE SPACE OF THE OUTDOOR FITNESS EQUIPMENT FREE FROM EXTRANEEOUS MATERIALS THAT COULD CAUSE INJURY, INFECTION, OR DISEASE.



SURFACE MOUNT



NOTES:

-RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.

-SLOPED FOOTING (45° MIN) IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY

-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.

CONCRETE REQUIRED
.30 CUBIC YARDS
[.23 CUBIC METERS]

SHOCK ABSORBING PROPERTIES OF SURFACING MATERIALS VARY. IF YOU DETERMINE THAT LESS THAN 0'-10" [25.40cm] OF SURFACING IS REQUIRED, MAKE UP THE DIFFERENCE IN ELEVATION WITH EARTH, BEFORE APPLYING SURFACING.

IN-GROUND MOUNT

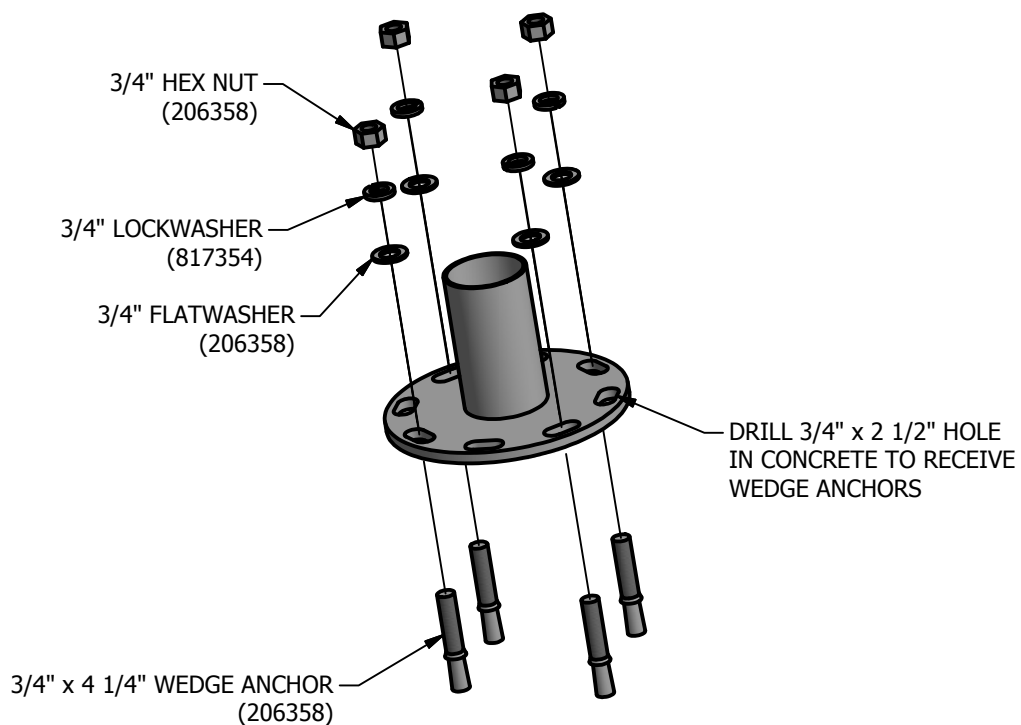
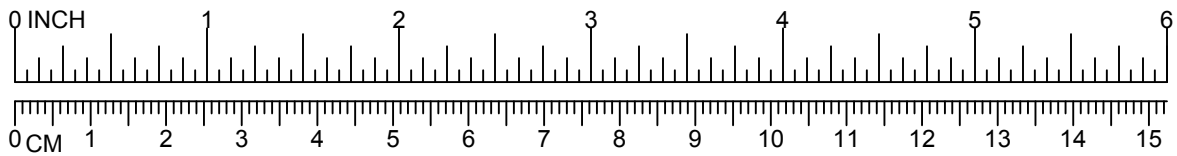
DETAILS -for- UP225SM

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.



SURFACE MOUNT ASSEMBLY DETAIL

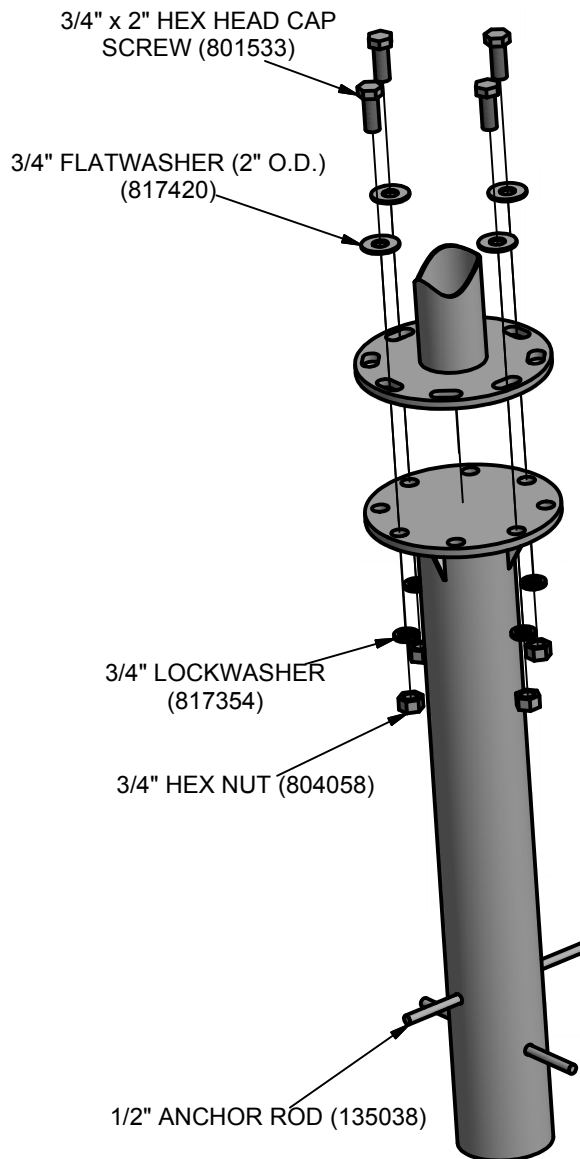
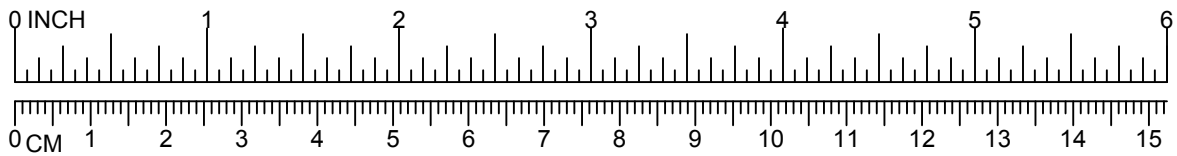
DETAILS -for- UP225S

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.



IN-GROUND ASSEMBLY DETAIL

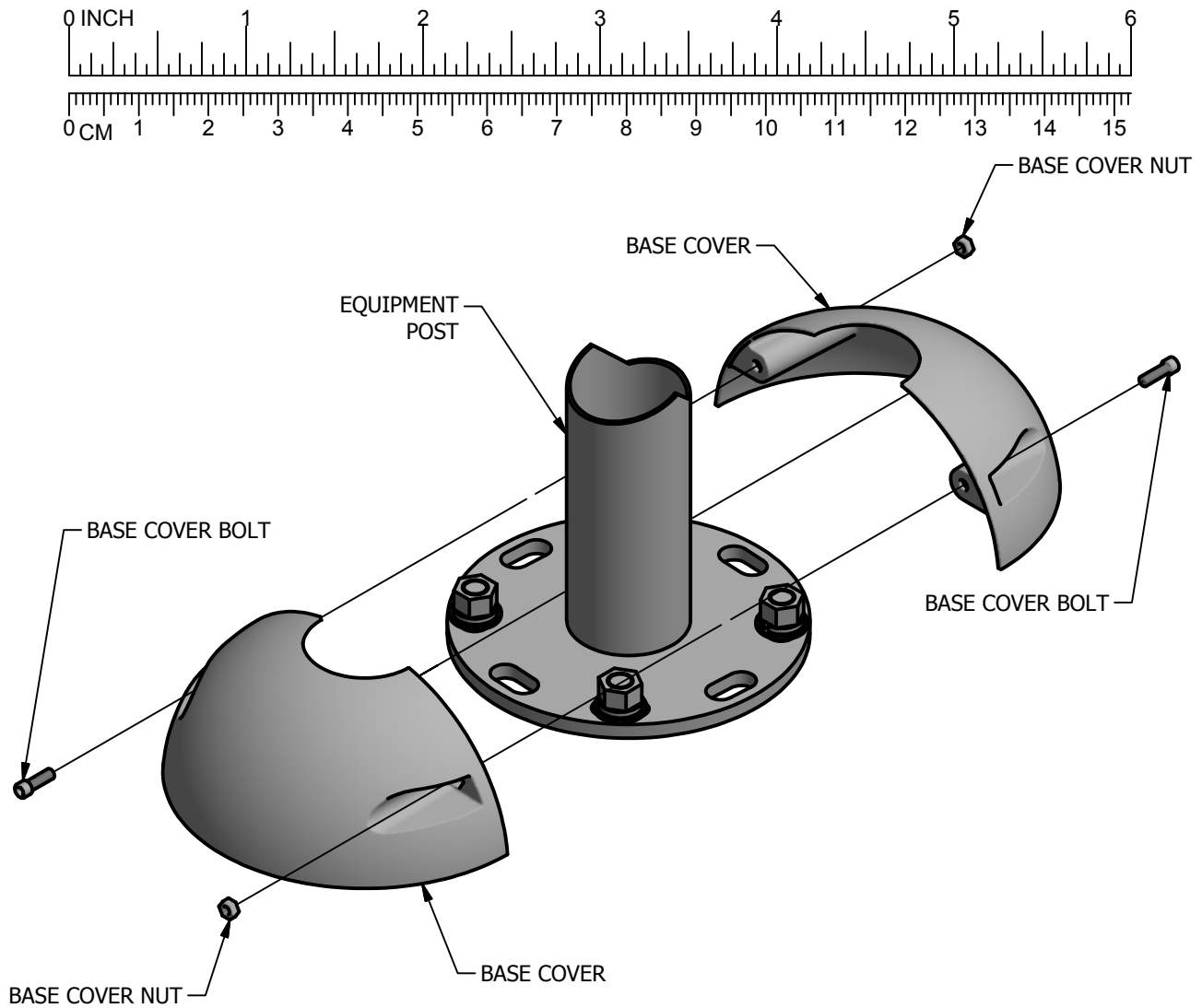
DETAILS -for- UP225S, UP225SM

IMPORTANT

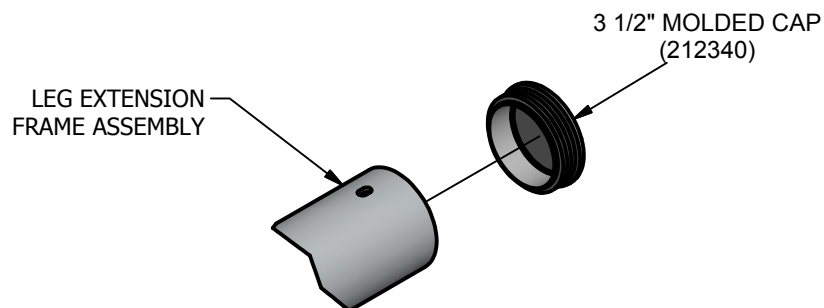
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED SMOOTH AND TREATED TO PREVENT CORROSION.

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.



BASE COVER DETAIL



FLAT MOLDED CAP DETAIL

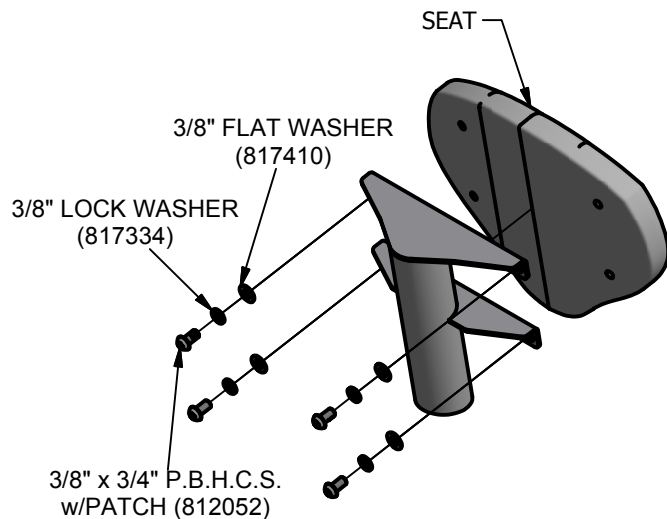
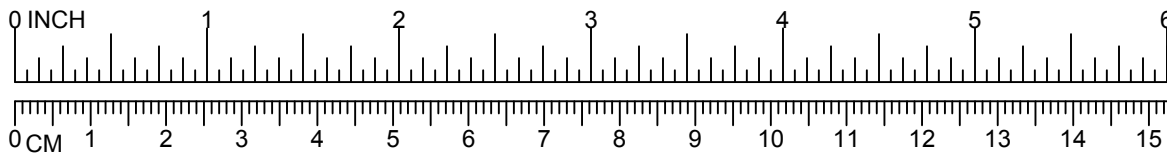
DETAILS -for- UP225S, UP225SM

IMPORTANT

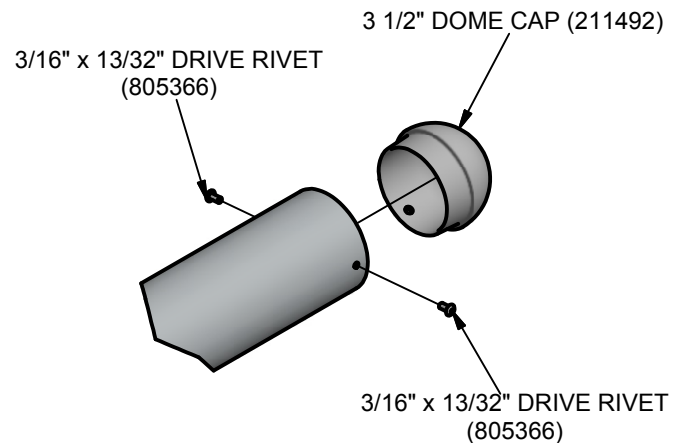
TO REDUCE THE RISK OF CLOTHING ENTANGLEMENT IN COMPLIANCE WITH ASTM F1487, ANY BOLT END
PROTRUDING MORE THAN TWO FULL THREADS BEYOND THE FACE OF THE NUT SHALL BE CUT-OFF FLUSH, FILED
SMOOTH AND TREATED TO PREVENT CORROSION.

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

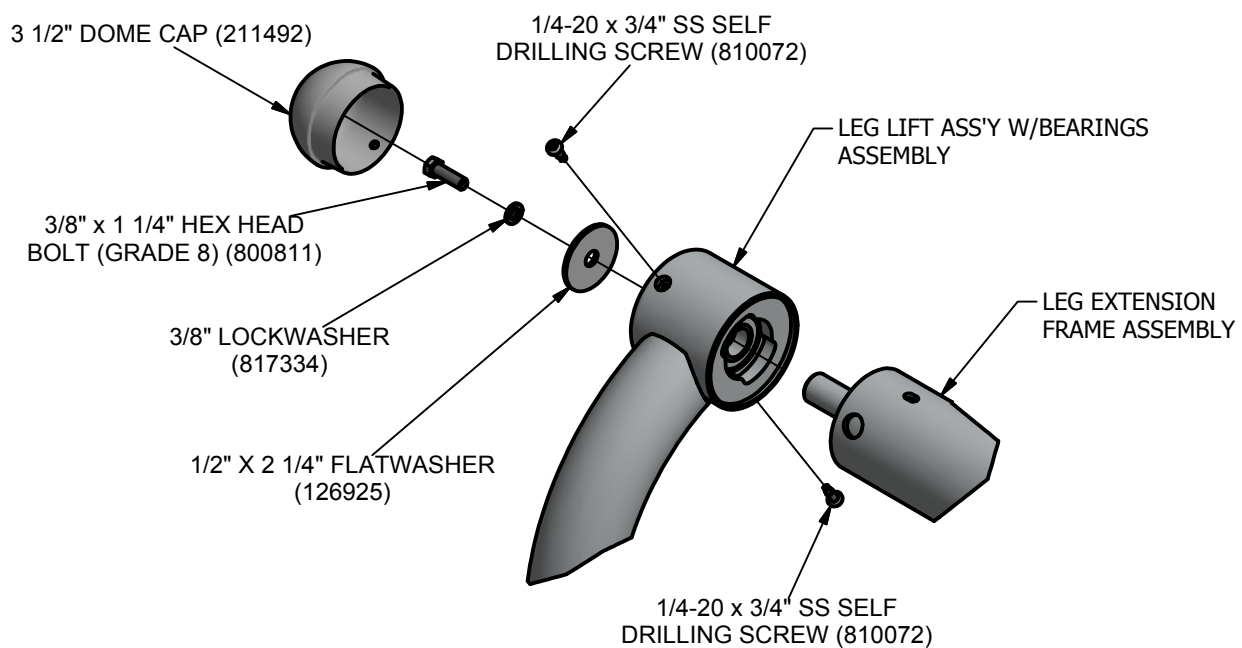
NOTE: AFTER ASSEMBLY IS COMPLETE, PEEN TEE-NUTS AND FLATWASHERS TO MATCH RADIUS OF PIPE.



SEAT DETAIL



DOME CAP DETAIL



LEG LIFT DETAIL

ActionFit Traditional

UP253 BENCH DIP

PARTS LIST		
DESCRIPTION	QTY	PART NUMBER
BENCH LEG	4	147874
BENCH	1	207087
HANDRAIL 1	2	147881
HANDRAIL 2	2	147877
HARDWARE COMPLETE	1	403968
3/8" x 1 1/4" B.H.C.S.	20	811051*
3/8" FLAT WASHER (1 1/4" O.D.)	36	817424*
3/8" LOCKWASHER	20	817334*
3/8" HEX NUT	20	804053*
1/2" ANCHOR ROD	4	135038*
USAGE/WARNING LABEL	1	403861*

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

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.

SPECIFICATIONS:

BENCH LEG: Shall be made of 1-7/8" O.D. galvanized pipe.

BENCH: Shall be fabricated of punched steel metal with a plastisol coating.

HANDRAIL: Shall be an all-welded construction fabricated of 1-5/16" O.D. galvanized pipe, 3/16" x 3" H.R. flat steel and galvanized pipe caps.

FINISH: The Bench Legs and Handrail Assemblies shall all have a powder coat finish.

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.

INSTALLATION INSTRUCTIONS:

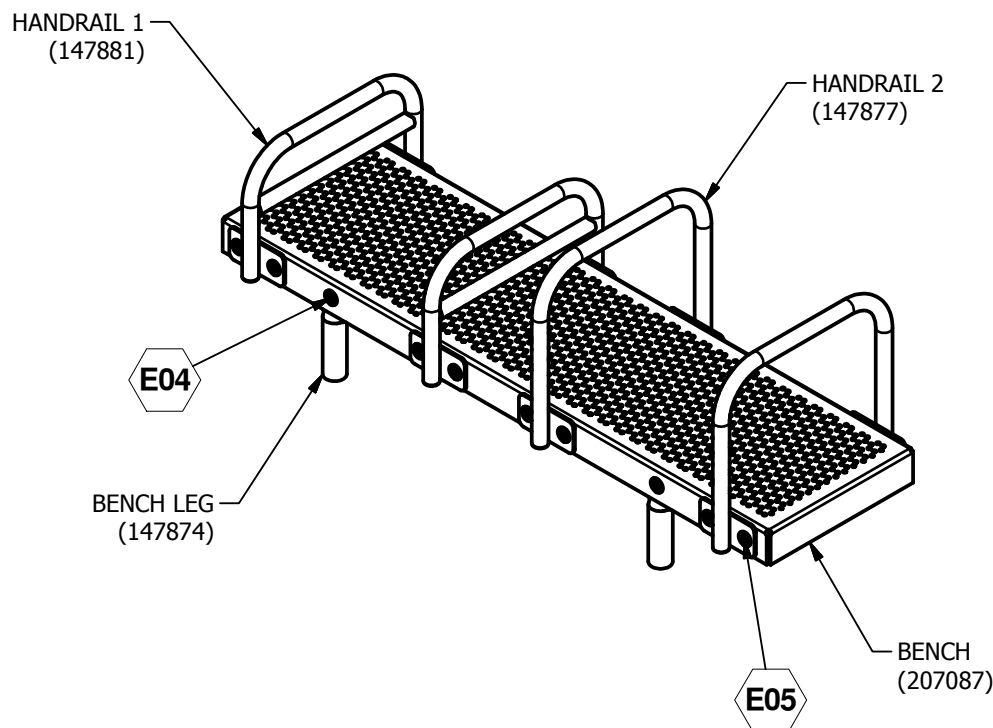
1. Before starting assembly, review the General Installation Instructions at the beginning of this Installation Guide and the Typical Assembly Details in the back.
2. Determine proper location for Bench Dip. Refer to Equipment Layout Plan provided and any applicable project site drawings.
3. Dig footings for bench legs. Maintain footing spacing, size and depth as indicated in the Plan View. Allow for depth of desired Finished Surface. Refer to Elevation View.
4. Attach Bench legs to the bench with 3/8" Hex Nut, 3/8" Lockwasher, 3/8" Flatwasher, and 3/8" x 1 1/4" B.H.C.S using Detail E04.
5. Attach four handrail 1 & 2 to the bench using 3/8" Hex Nut, 3/8" Lockwasher, 3/8" Flatwashers, and 3/8" x 1 1/4" B.H.C.S. using Detail E05.
6. Position bench assembly in footings; align, plumb, and brace bench in place. Pour concrete as shown on elevation view. Be sure to hold top of concrete footing 10" [25.40cm] down from the Finished Surface. Slope top of concrete for proper drainage.
7. Allow concrete a minimum of 48 hours to cure and harden before using bench.

ActionFit Traditional

UP253 BENCH DIP

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol coating peeling and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.



FINISHED ASSEMBLY

NOTE:
MINIMUM OF ONE USAGE/WARNING LABEL
SIGN POST (UP197) MUST BE USED WITH EACH
BENCH DIP. SEE SIGN POST
INSTALLATION SHEET FOR INSTALLATION DETAILS.

**SIGN POST MUST BE OUTSIDE MAXIMUM SPACE IN WHICH
THE USER AND EXERCISE EQUIPMENT COMPONENTS
TRAVERSE WHEN THE EQUIPMENT IS OPERATED.**

 = INSTALLATION DETAIL

Issued/Revised: 9/28/2016

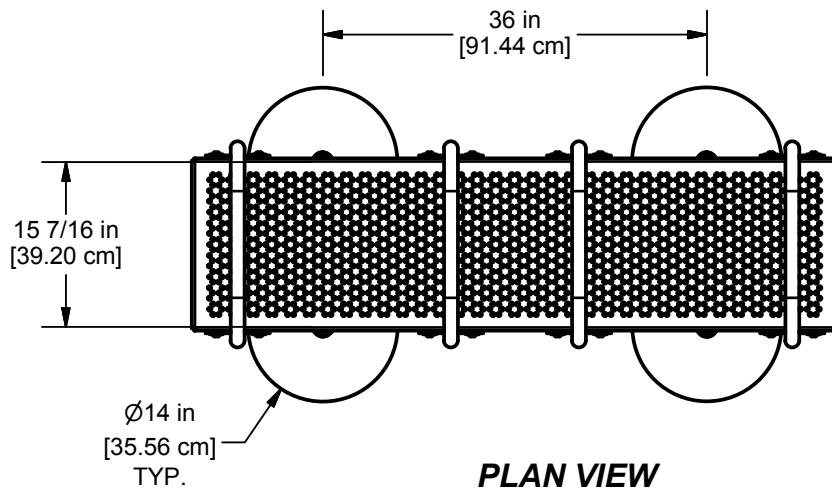


800.458.5872

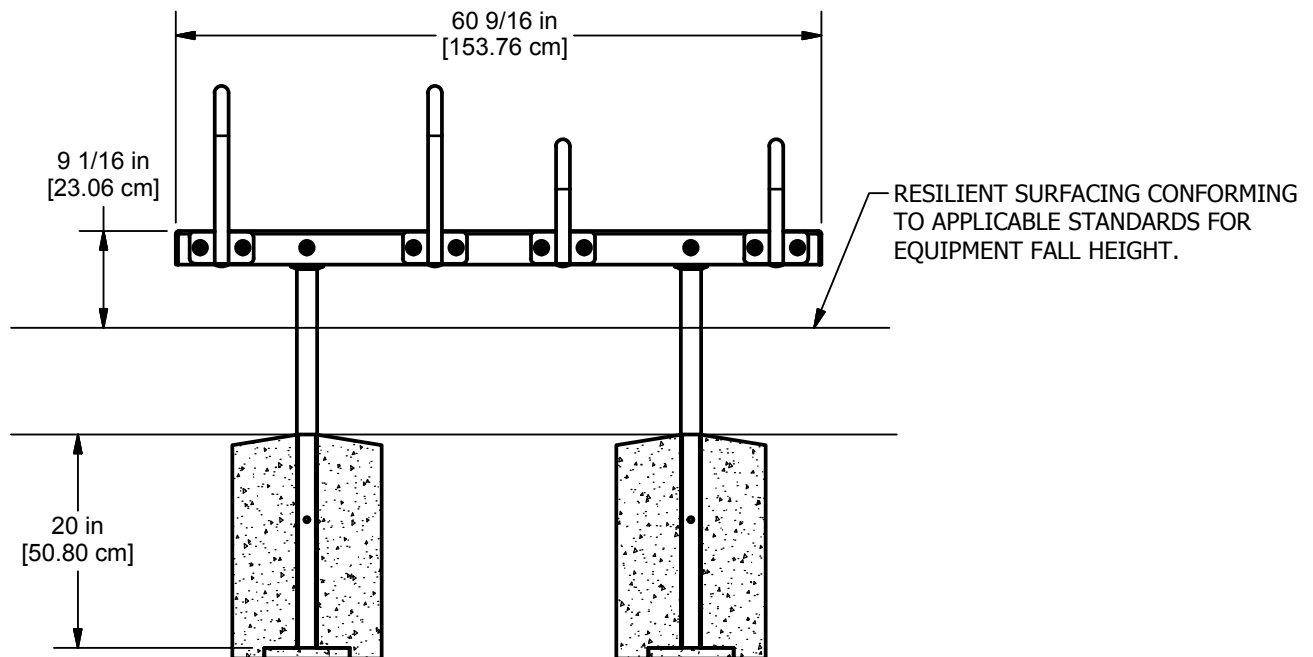
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ActionFit Traditional

UP253 BENCH DIP



CONCRETE REQUIRED:
.28 CUBIC YARDS
[.20 CUBIC METERS]



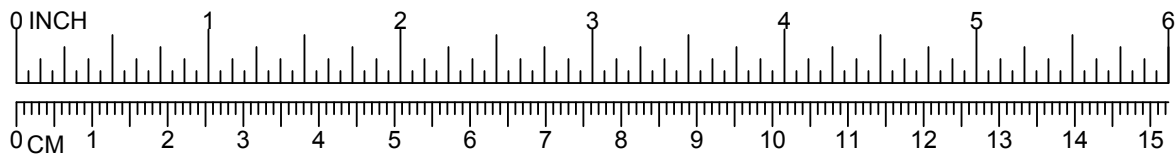
ELEVATION VIEW



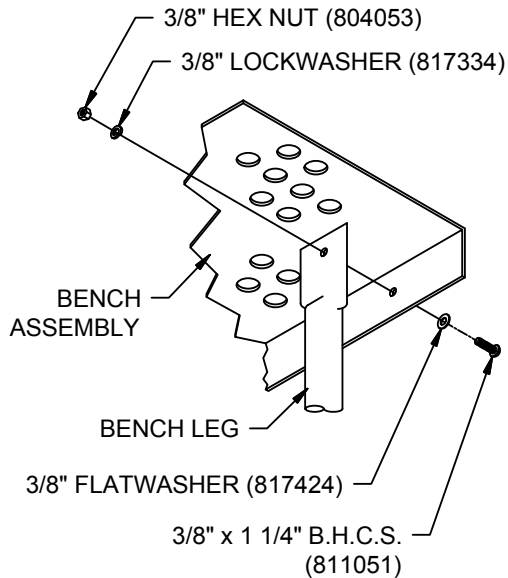
Issued/Revised: 9/28/2016

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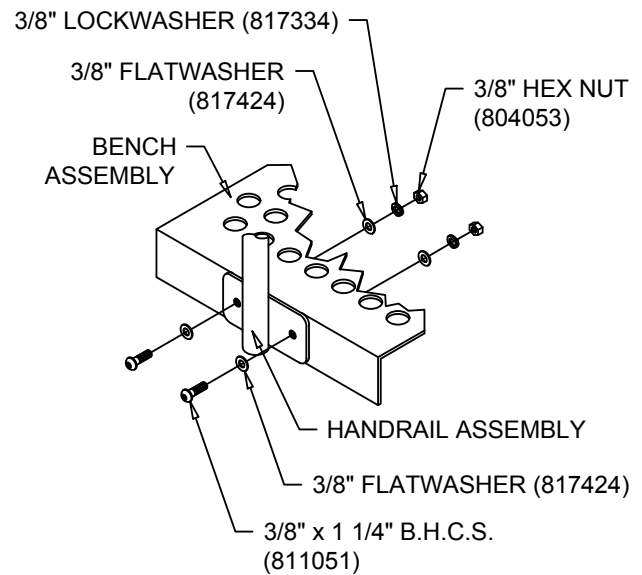
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UP253 BENCH DIP



E04



E05

ActionFit Traditional

UP257 KNEE LIFT

PARTS LIST		
DESCRIPTION	QTY	PART NUMBER
KNEE LIFT	1	147812
HARDWARE COMPLETE	1	403972
1/2" ANCHOR ROD	1	135038*
USAGE/WARNING LABEL	1	403865*

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

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.

SPECIFICATIONS:

KNEE LIFT: Shall be an all-welded construction fabricated of 3-1/2" O.D. (13 gauge) galvanized pipe and formed 1-5/16" O.D. galvanized pipe Climber Loops. Assembly shall also consist of a cast aluminum cap and self-sealing pop rivets.

FINISH: Knee Lift Assembly shall have a powder coat finish.

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.

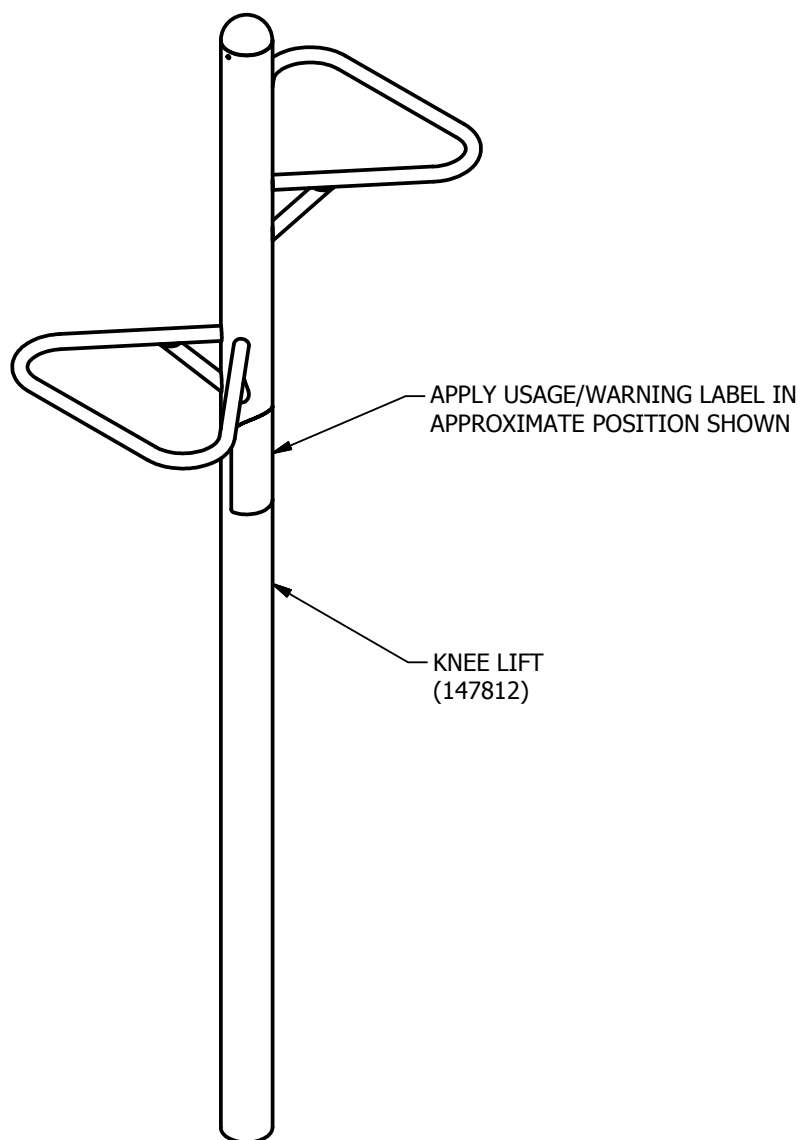
INSTALLATION INSTRUCTIONS:

1. Before starting assembly, review the General Installation Instructions at the beginning of this Installation Guide and the Typical Assembly Details in the back.
2. Determine proper location for Knee Lift. Refer to Equipment Layout Plan provided and any applicable project site drawings.
3. Dig footing for Knee lift. Maintain footing spacing, size and depth as indicated on the Plan View and Elevation View. Allow for depth of desired Finished Surface.
5. Position Knee Lift in footing; align, plumb, and brace post in place. Pour concrete as shown in Elevation View. Be sure to hold top of concrete footing 10" [25.40cm] down from the Finished Surface. Slope top of concrete for proper drainage.
6. Allow concrete a minimum of 48 hours to cure and harden before using Knee Lift.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check parts for breakage or wear, and immediately put equipment out of service until any faulty parts are repaired or replaced. Check all decks for Plastisol coating peeling and touch up with Plastisol if necessary. Check for obstructed holes on deck, clean if necessary. Periodically check resilient surfacing for appropriate depth, and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

UP257 KNEE LIFT



 = INSTALLATION DETAIL

FINISHED ASSEMBLY

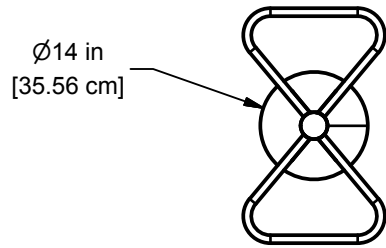
Issued/Revised: 9/29/2016

800.458.5872



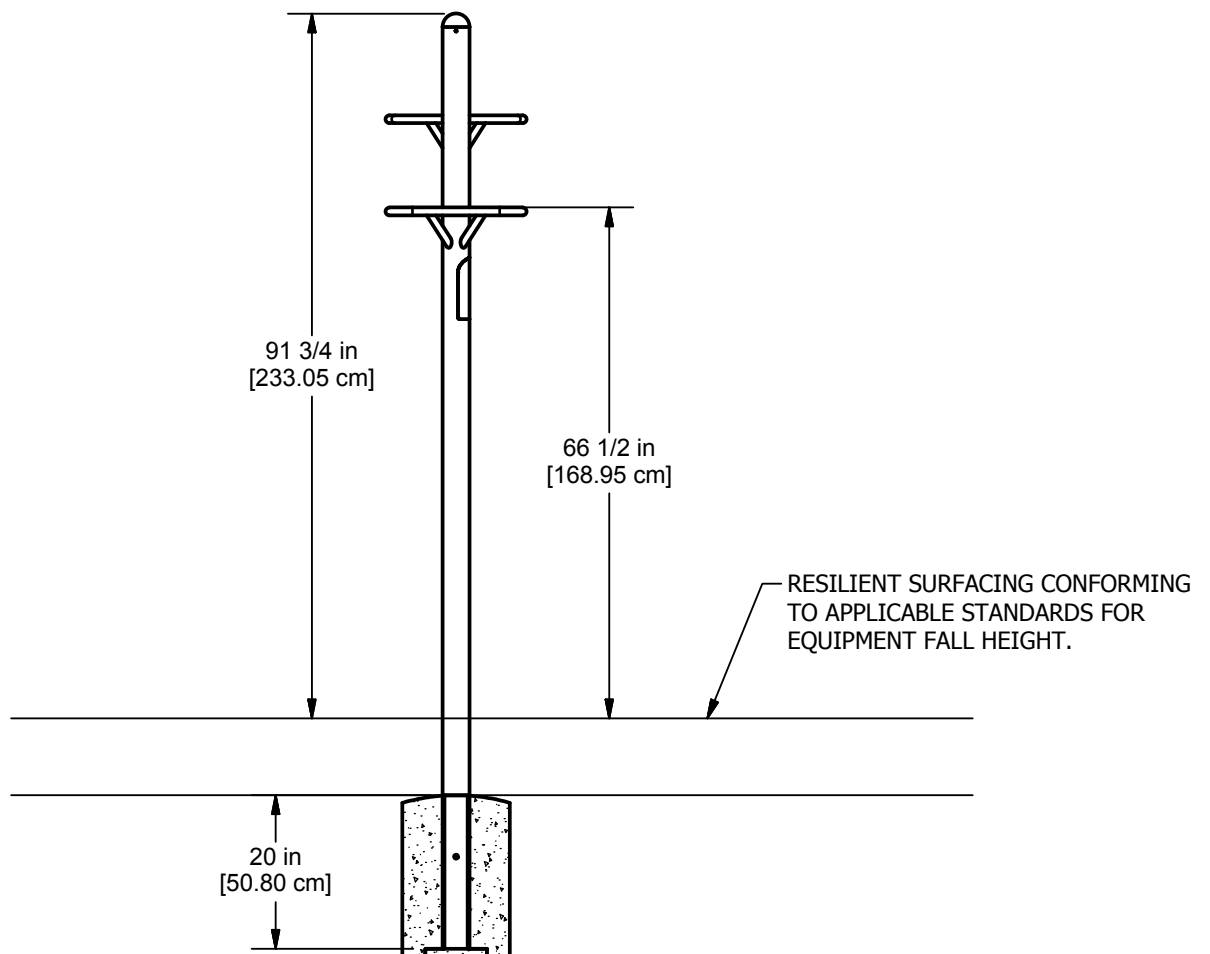
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UP257 KNEE LIFT



PLAN VIEW

CONCRETE REQUIRED:
.07 CUBIC METERS
[.05 CUBIC YARDS]



ELEVATION VIEW

Issued/Revised: 9/29/2016



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UP164J CARDIO WALKER (FOOTING) UP164S CARDIO WALKER (IN GROUND) UP164M CARDIO WALKER (SURFACE MOUNT)

Parts List					
ITEM	DESCRIPTION	UP164J (FOOTING)	UP164S (IN GROUND)	UP164M (SURFACE MOUNT)	PART NUMBER
1	MAIN FRAME WELD ASS'Y	1	1	1	211843
2	CARDIO ARM ASS'Y	2	2	2	211838
3	FOOTHOLD	2	2	2	403708
4	BASE COVER	2	2	2	206838
5	FOOTBUCK WELD ASSEMBLY	0	2	0	206467
6	3 1/2" DOME CAP	2	2	2	211492
	HARDWARE COMPLETE	1	0	0	403947
	HARDWARE COMPLETE	0	1	0	403948
	HARDWARE COMPLETE	0	0	1	403949
	USAGE/WARNING LABEL	1	1	1	403884*
	3/8" x 3/4" P.B.H.C.S. w/PATCH	4	4	4	812052*
	3/8" x 1 1/4" HEX HEAD BOLT (GR 8)	2	2	2	800811*
	3/8" FLAT WASHER (1" O.D.)	4	4	4	817401*
	3/8" LOCK WASHER	6	6	6	817334*
	1/2" X 2 1/4" FLATWASHER	2	2	2	126925*
	1/2" ANCHOR ROD	0	4	0	135038*
	3/4" X 2" HEX HEAD CAP SCREW	0	8	0	801533*
	3/4" X 4 1/4" WEDGE ANCHOR	0	0	8	206358*
	3/4" ANCHOR BOLT	8	0	0	800001*
	3/4" FLATWASHER (2" O.D.)	16	8	0	817420*
	3/4" HEX NUT	16	8	0	804058*
	3/4" LOCKWASHER	8	8	8	817354*
	5" INJECTION MOLDED CAP	2	2	2	207710*
	#12 x 3/4" SS SELF DRILLING SCREW	4	4	4	810072*
	SPACER PLATE	2	2	2	211597*

Unless Otherwise Specified, All Units of Measure are Each

**Items listed below Hardware Complete line are included with Hardware Complete Number*

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. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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.

SPECIFICATIONS:

5" PLASTIC CAP: The 5" Plastic Cap shall be constructed from injection molded Low Density Polyethylene.

BASE COVER: The Base Cover shall be constructed from aluminum and powder coated.

WELD ASSEMBLIES:

CARDIO ARM ASSEMBLY: Shall be constructed from 2 3/8" O.D. x .134 (10 GAUGE) wall galvanized steel tubing, 1/8" and 3/8" h.r. flat steel and a 4" o.d. machined collar. The assemblies shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

Issued/Revised: 8/21/17

UP164J CARDIO WALKER (FOOTING) UP164S CARDIO WALKER (IN GROUND) UP164M CARDIO WALKER (SURFACE MOUNT)

MAIN FRAME ASSEMBLY: Main Post assembly shall be manufactured with 5" O.D. x .120 (11 gauge) wall steel tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. The main support frame assembly shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

FOOTBUCK: The upright shall be fabricated of 5" O.D. galvanized pipe and the mounting plate shall be a fabricated 3/8" hot rolled flat steel. Shall be a once piece welded unit.

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. The 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-522-68).

HARDWARE: All nuts, bolts, screws, and lock washers used in the assembly 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.

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 completed. Bracing material is required during assembly.

NOTE: Assembly and leveling times will be greatly reduced if a transit is used to set location and depth of ground holes.

INSTALLATION INSTRUCTIONS FOR UP164J (FOOTING):

1. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
2. Fill hole with concrete. While the concrete is still soft, yet firm enough to support the Cardio Walker, Place (4) Anchor Bolts of the Cardio Walker in position. See Footing Detail. **NOTE:** Use Cardio Walker as a template for Anchor Bolt location, then remove Cardio Walker.

IMPORTANT: DO NOT MOUNT THE CARDIO WALKER TO THE ANCHOR BOLTS FOR AT LEAST 7 DAYS.

3. After concrete has cured and set for a minimum of 7 Days, attach Cardio Walker to 3/4" Anchor Bolt using 3/4" Flat Washer (2" O.D.), 3/4" Lock Washer, and 3/4" Hex Nut. See Footing Assembly Detail.
4. Attach Cardio Arm Assembly to Main Frame using #12 x 3/4" SS Self Drilling Screw, 1/2" Flatwasher, 3/8" Lockwasher, 3/8" x 1 1/4" Hex Head Bolt and 3 1/2" Dome Cap. See Cardio Arm Assembly Detail.
5. Attach Foothold to Cardio Arm Weld Assembly using Spacer Plate, 3/8" x 3/4" P.B.H.C.S. w/ Patch, 3/8" Lockwasher, and 3/8" Flatwasher. See Foothold Detail.
6. Insert 5" Injection Molded Cap in each upright pipe of Main Frame assembly as shown in Cap Detail.
7. Attach Base Cover to Equipment Post using Base Cover Nut and Base Cover Bolt included with Base Cover. See Base Cover Detail.

Issued/Revised: 8/21/17

UP164J CARDIO WALKER (FOOTING) UP164S CARDIO WALKER (IN GROUND) UP164M CARDIO WALKER (SURFACE MOUNT)

INSTALLATION INSTRUCTIONS FOR UP164S (IN GROUND):

1. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
2. Attach Cardio Arm Assembly to Main Frame using #12 x 3/4" SS Self Drilling Screw, 1/2" Flatwasher, 3/8" Lockwasher, 3/8" x 1 1/4" Hex Head Bolt and 3 1/2" Dome Cap. See Cardio Arm Assembly Detail.
3. Attach Foothold to Cardio Arm Weld Assembly using Spacer Plate, 3/8" x 3/4" P.B.H.C.S. w/ Patch, 3/8" Lockwasher, and 3/8" Flatwasher. See Foothold Detail.
4. Insert 5" Injection Molded Cap in each upright pipe of Main Frame assembly as shown in Cap Detail.
5. Attach the Footbuck Weld Assembly to the Cardio Walker using 3/4" Hex Nut, 3/4" Lockwasher, 3/4" Flatwasher (2" O.D.), 3/4" x 2" Hex Head Cap Screw. See In-Ground Assembly Detail.
6. Place Cardio Walker into hole making sure it rests on the brick. See In-Ground Detail.
7. Level Cardio Walker using sway bracing.
8. Pour concrete according to the Plan View and Elevation View. Allow concrete to cure for a minimum of 7 days.
9. Attach Base Cover to Equipment Post using Base Cover Detail.

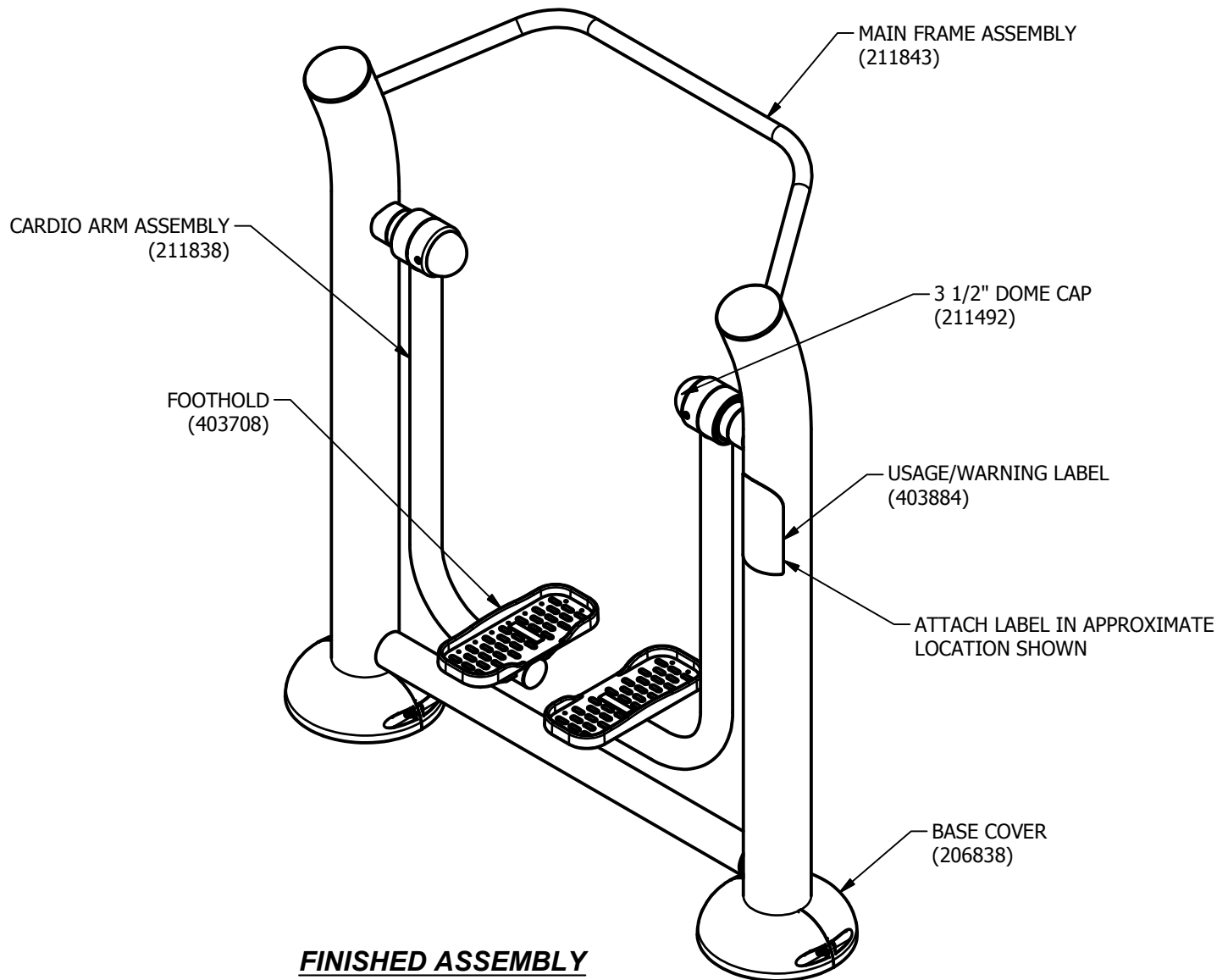
INSTALLATION INSTRUCTIONS FOR UP164M (SURFACE MOUNT):

1. Mark correct location of holes for Wedge Anchor using the Base Plate as a guide.
2. Drill 3/4" x 2 1/2" hole in concrete for Wedge Anchor. See Surface Detail.
3. Insert Wedge Anchors and secure with 3/4" Flatwasher (2" O.D.), 3/4" Lockwasher, and 3/4" Hex Nut. See Surface Assembly Detail.
4. Attach Cardio Arm Assembly to Main Frame using #12 x 3/4" SS Self Drilling Screw, 1/2" Flatwasher, 3/8" Lockwasher, 3/8" x 1 1/4" Hex Head Bolt and 3 1/2" Dome Cap. See Cardio Arm Assembly Detail.
5. Attach Foothold to Cardio Arm Weld Assembly using Spacer Plate, 3/8" x 3/4" P.B.H.C.S. w/ Patch, 3/8" Lockwasher, and 3/8" Flatwasher. See Foothold Detail.
6. Insert 5" Injection Molded Cap in each upright pipe of Main Frame assembly as shown in Cap Detail.
7. Attach Base Cover to Equipment Post using Base Cover Detail.

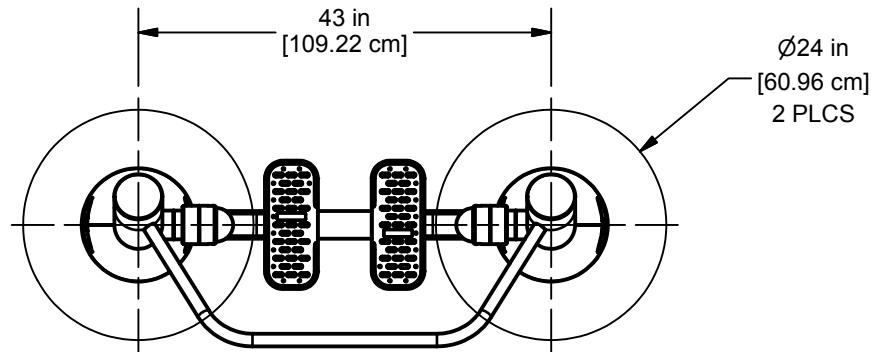
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

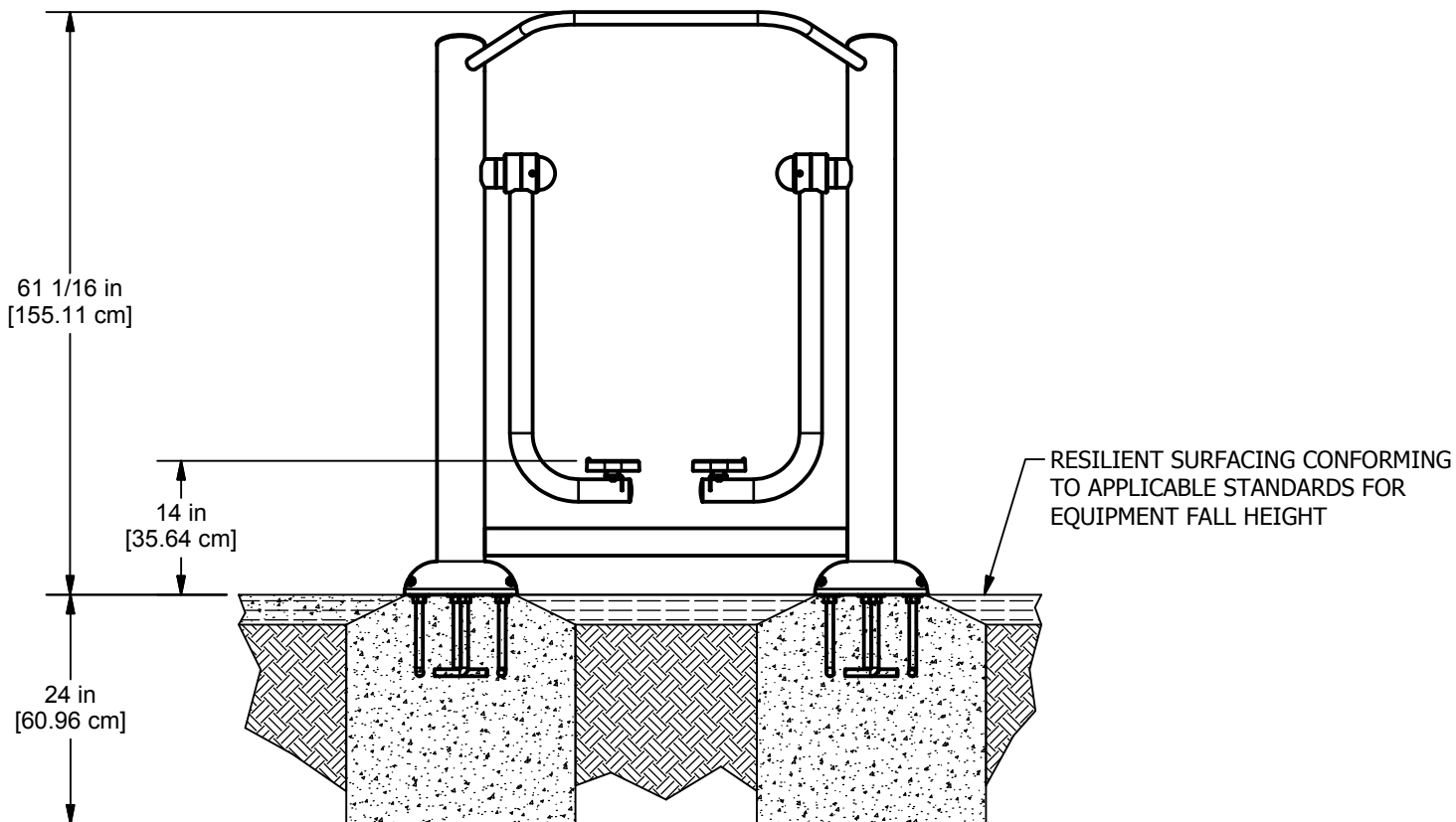
*UP164J CARDIO WALKER (FOOTING)
UP164S CARDIO WALKER (IN GROUND)
UP164M CARDIO WALKER (SURFACE MOUNT)*



*UP164J CARDIO WALKER (FOOTING)
UP164S CARDIO WALKER (IN GROUND)
UP164M CARDIO WALKER (SURFACE MOUNT)*



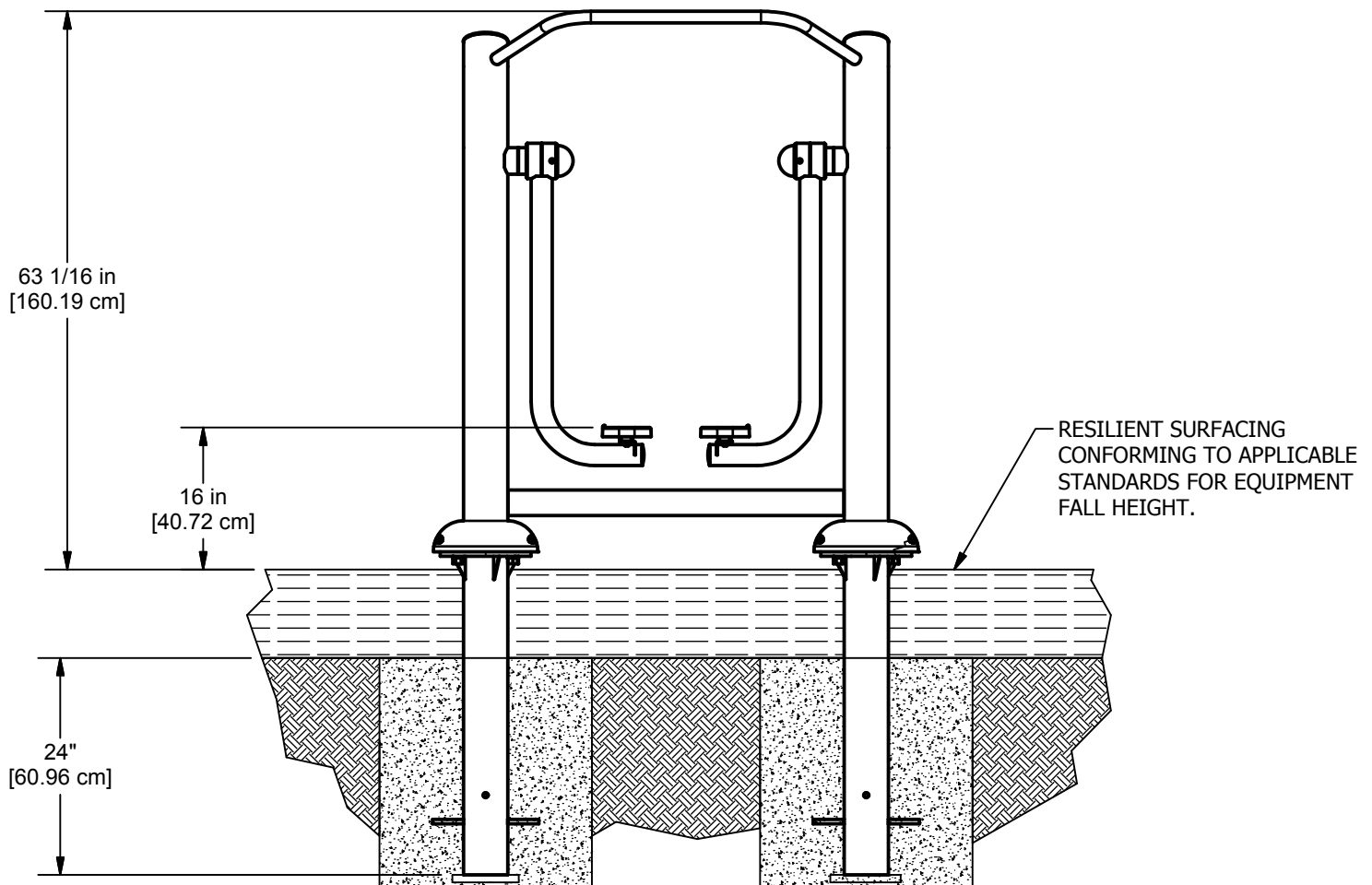
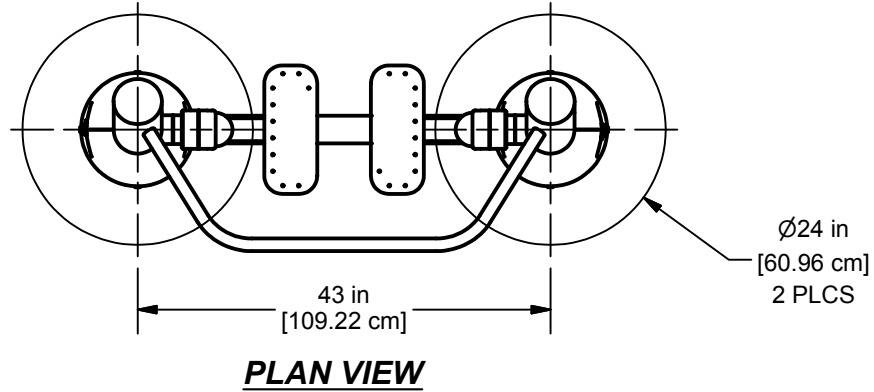
PLAN VIEW



ELEVATION VIEW
UP164J (FOOTING)

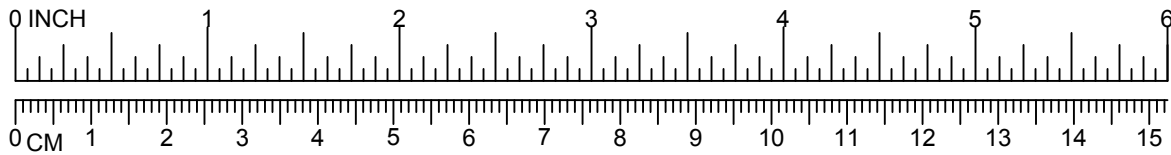
Issued/Revised: 8/21/17

UP164J CARDIO WALKER (FOOTING)
UP164S CARDIO WALKER (IN GROUND)
UP164M CARDIO WALKER (SURFACE MOUNT)

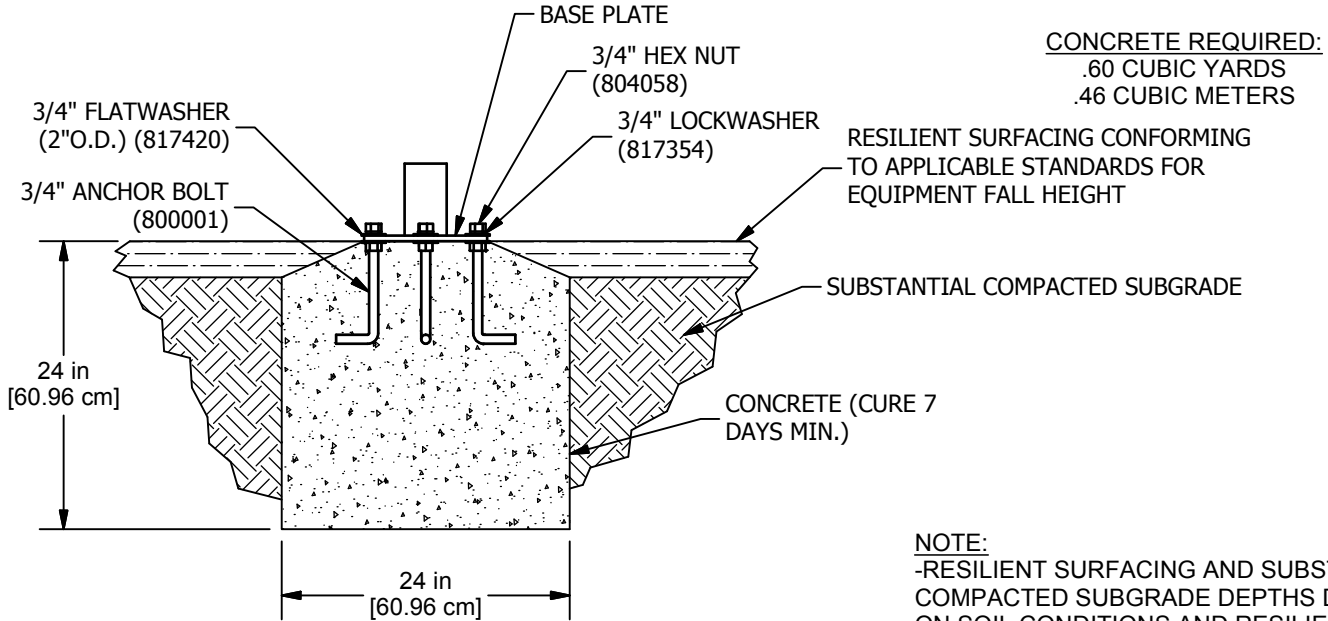


UP164S (IN GROUND)

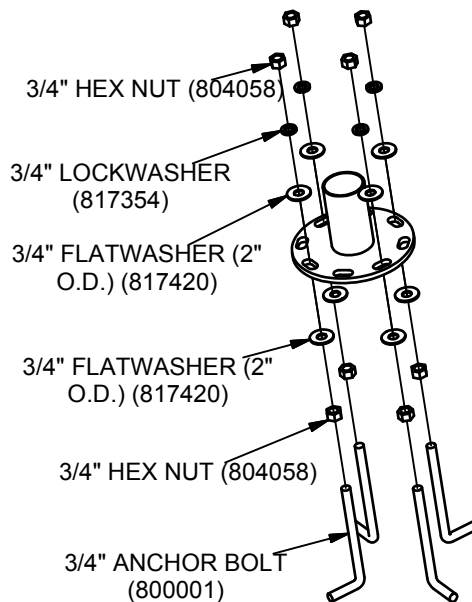
Issued/Revised: 8/21/17



UP164J CARDIO WALKER (FOOTING) **UP164S CARDIO WALKER (IN GROUND)** **UP164M CARDIO WALKER (SURFACE MOUNT)**



FOOTING DETAIL



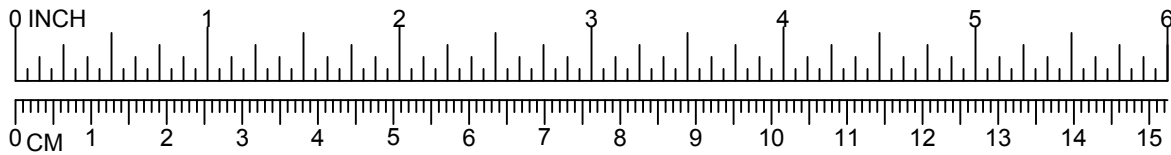
FOOTING ASSEMBLY DETAIL **UP164F (FOOTING)**

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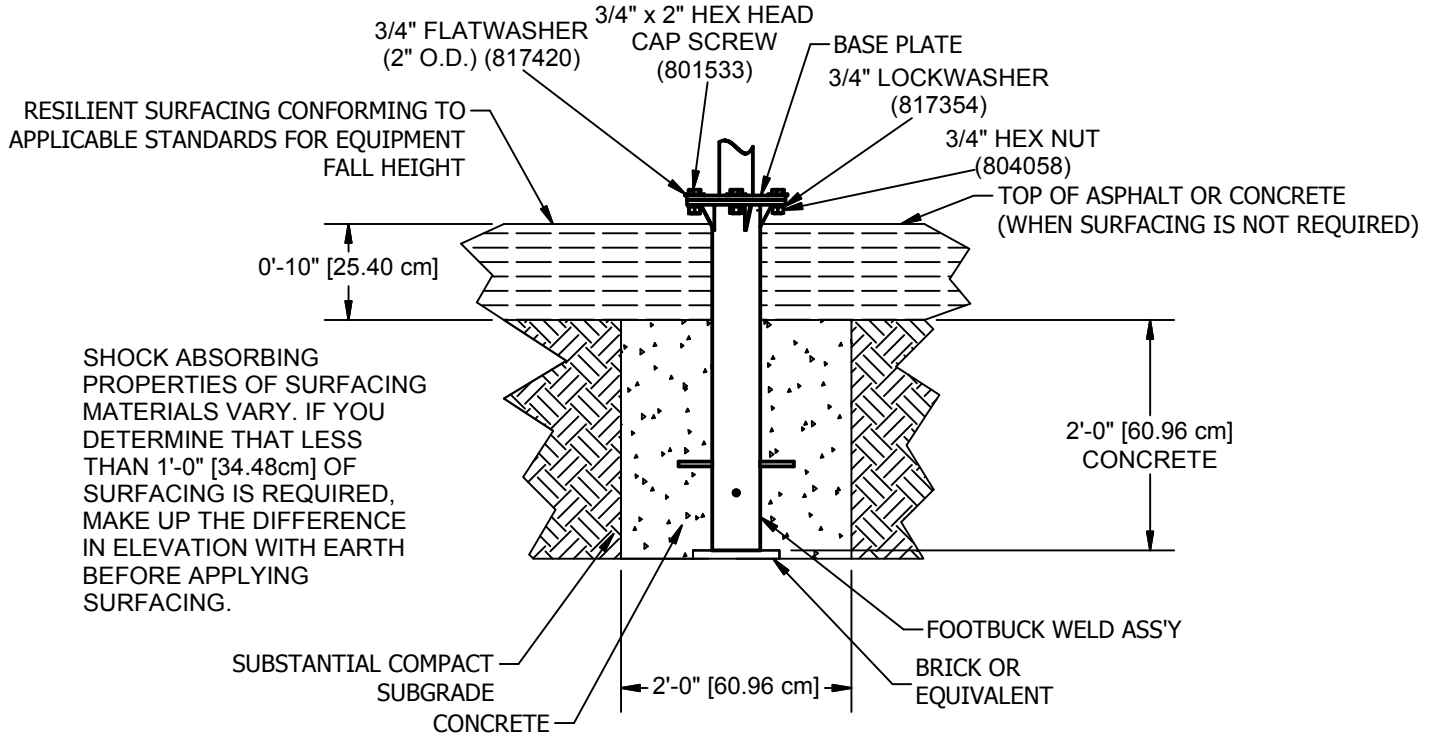


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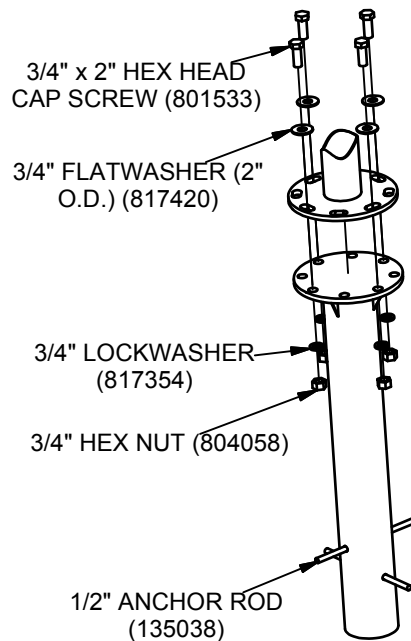


UP164J CARDIO WALKER (FOOTING) **UP164S CARDIO WALKER (IN GROUND)** **UP164M CARDIO WALKER (SURFACE MOUNT)**



IN GROUND DETAIL

CONCRETE REQUIRED:
.30 CUBIC YARDS
.23 CUBIC METERS



IN GROUND ASSEMBLY DETAIL **UP164S (IN GROUND)**

NOTE:

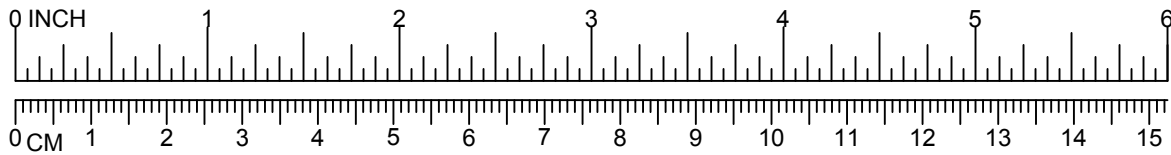
- RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.
- SLOPED FOOTING (45° MIN) IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.
- SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.

Issued/Revised: 8/21/17

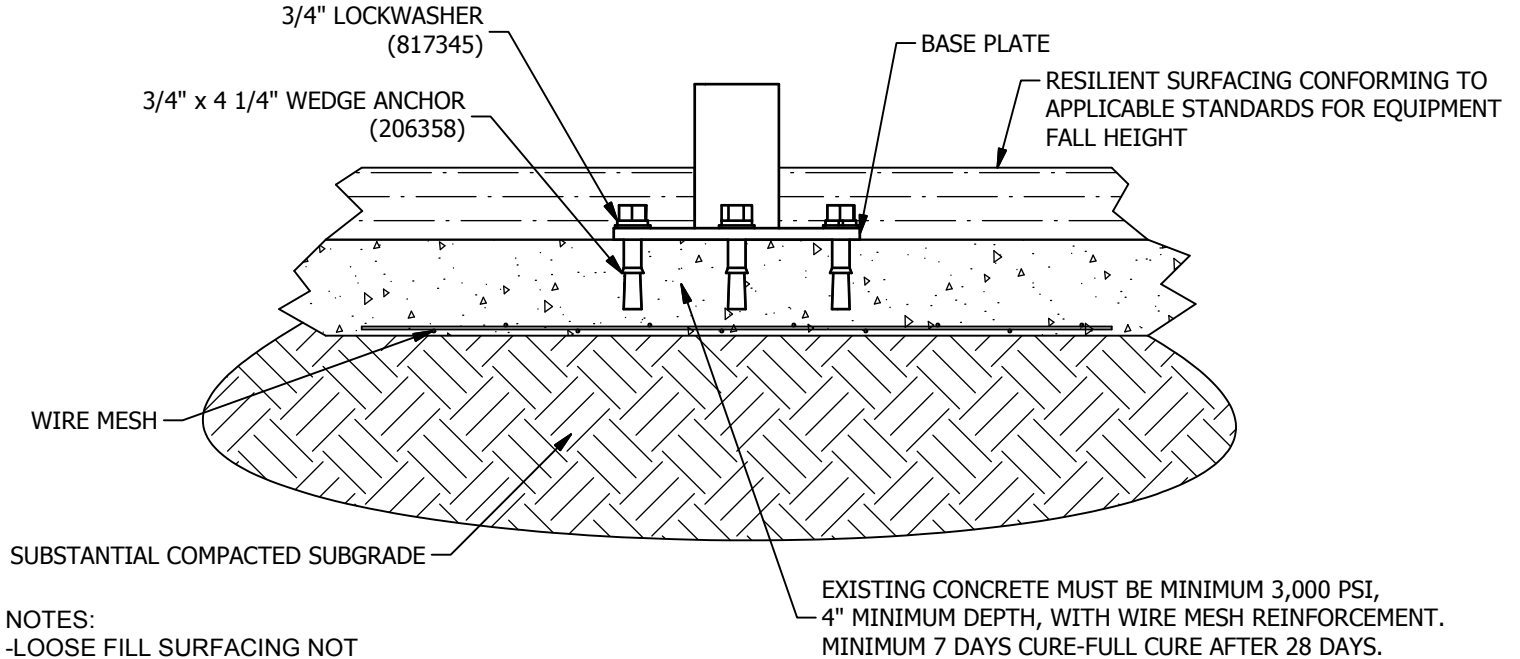


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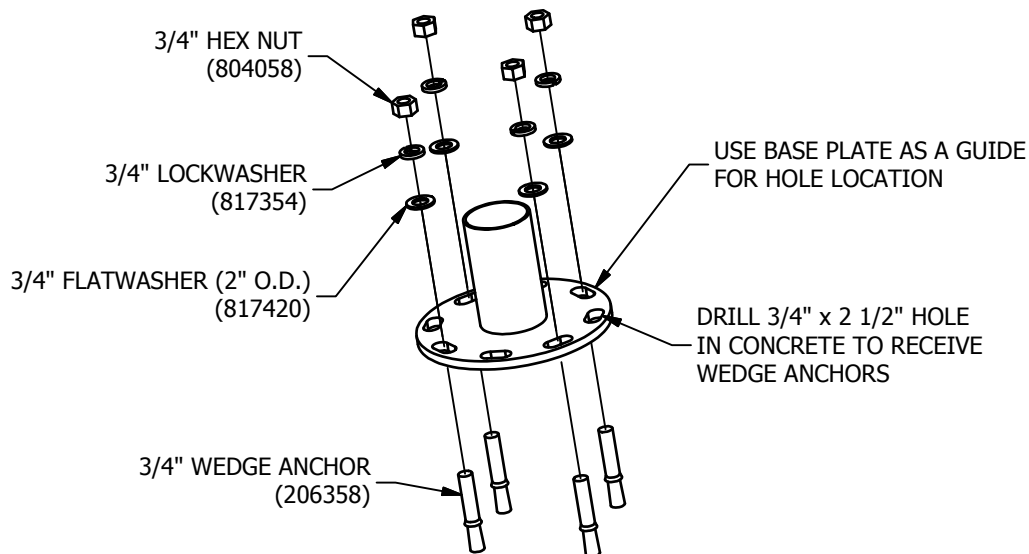
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UP164J CARDIO WALKER (FOOTING) **UP164S CARDIO WALKER (IN GROUND)** **UP164M CARDIO WALKER (SURFACE MOUNT)**



SURFACE DETAIL



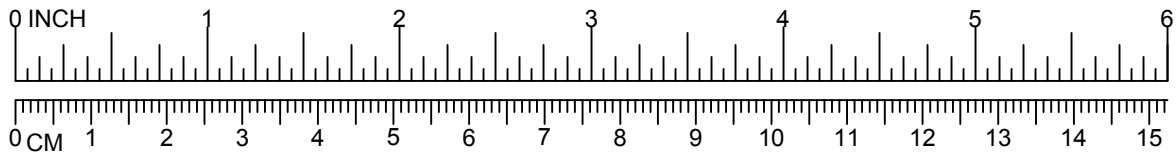
SURFACE ASSEMBLY DETAIL **UP164M (SURFACE MOUNT)**

Issued/Revised: 8/21/17

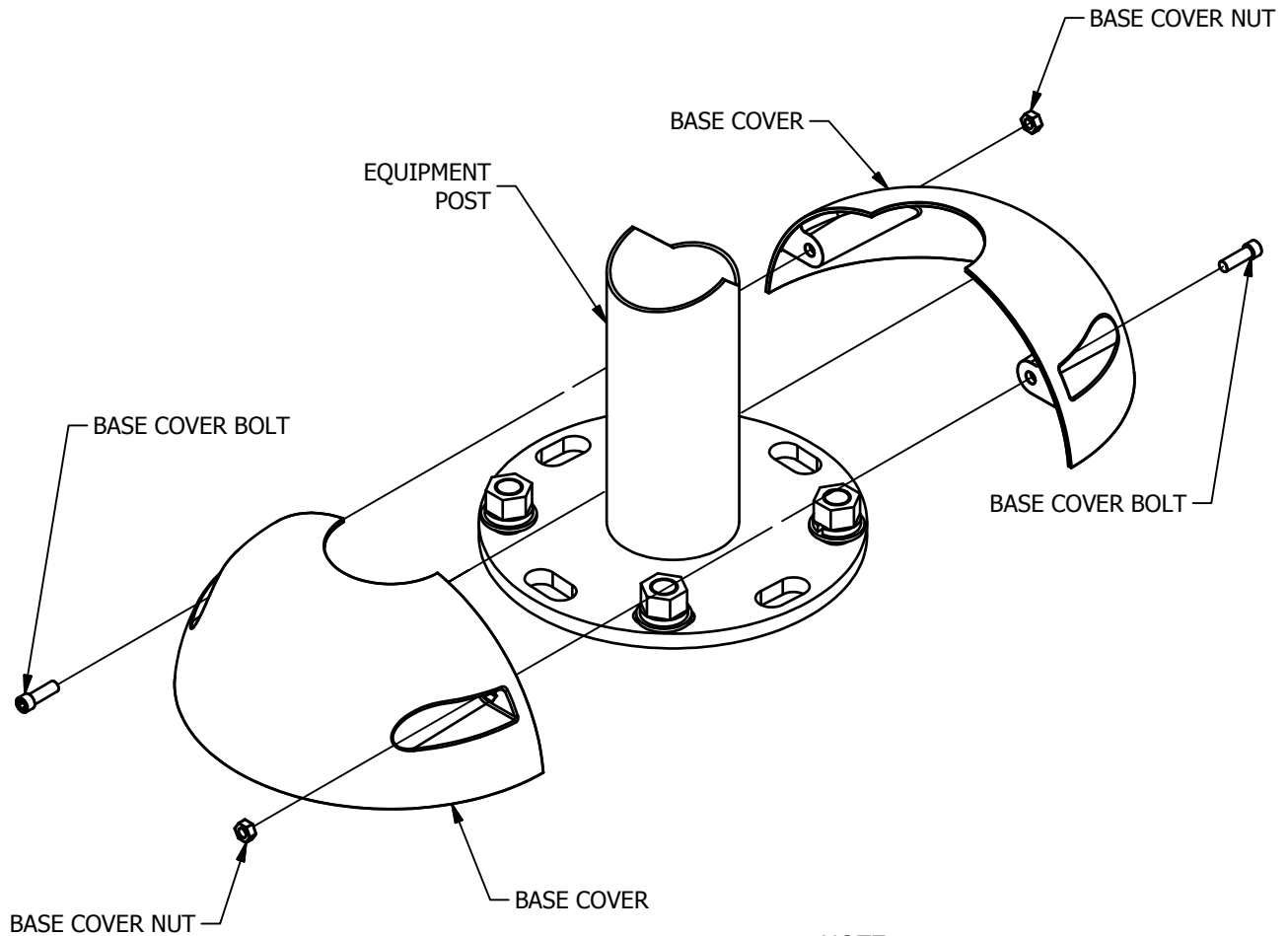


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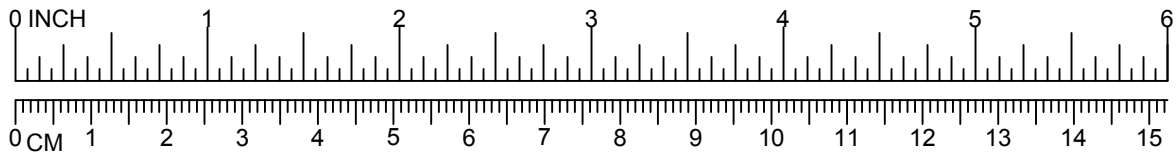


UP164J CARDIO WALKER (FOOTING)
UP164S CARDIO WALKER (IN GROUND)
UP164M CARDIO WALKER (SURFACE MOUNT)

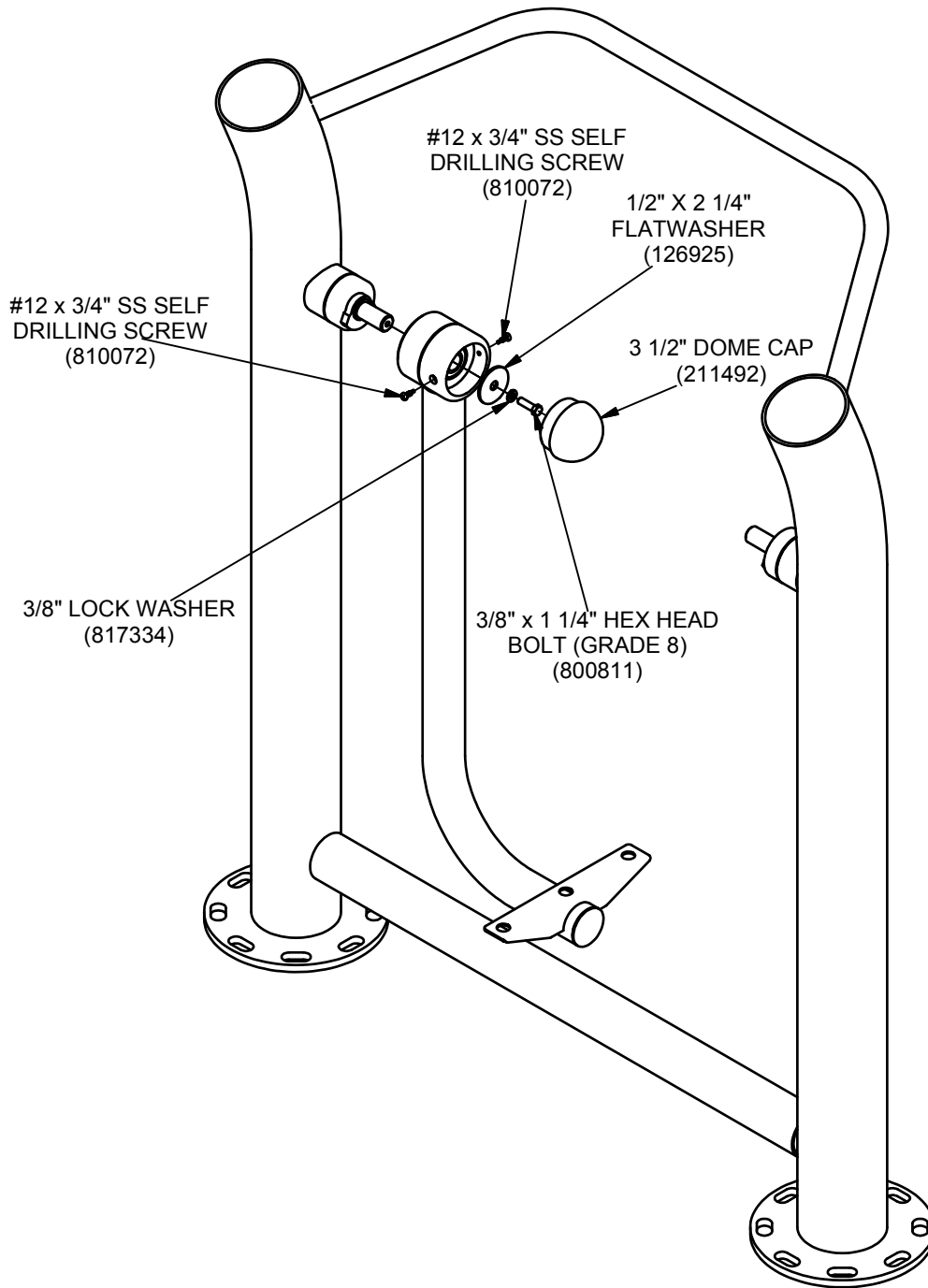


NOTE:
BASE COVER BOLT AND
BASE COVER NUT ARE INCLUDED
WITH BASE COVER.

BASE COVER DETAIL



UP164J CARDIO WALKER (FOOTING)
UP164S CARDIO WALKER (IN GROUND)
UP164M CARDIO WALKER (SURFACE MOUNT)



CARDIO ARM ASS'Y DETAIL

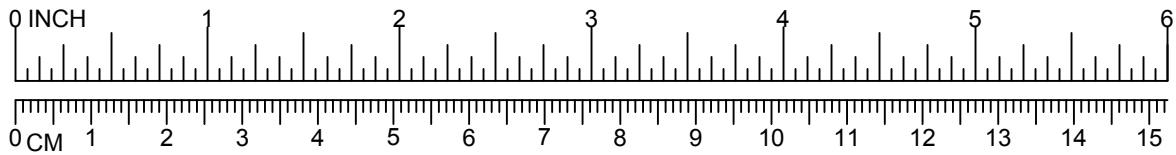
Issued/Revised: 8/21/17



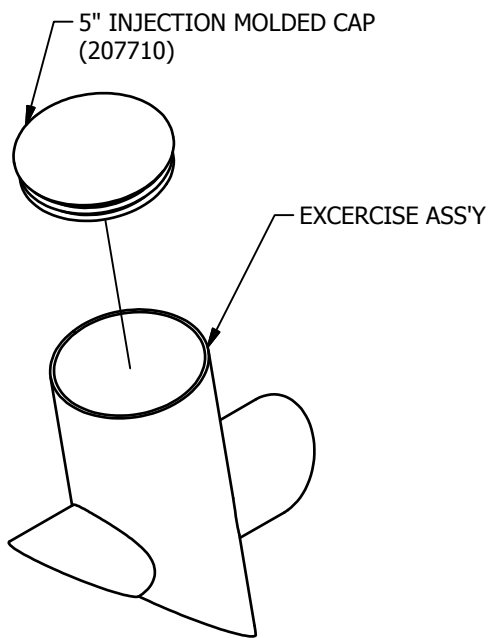
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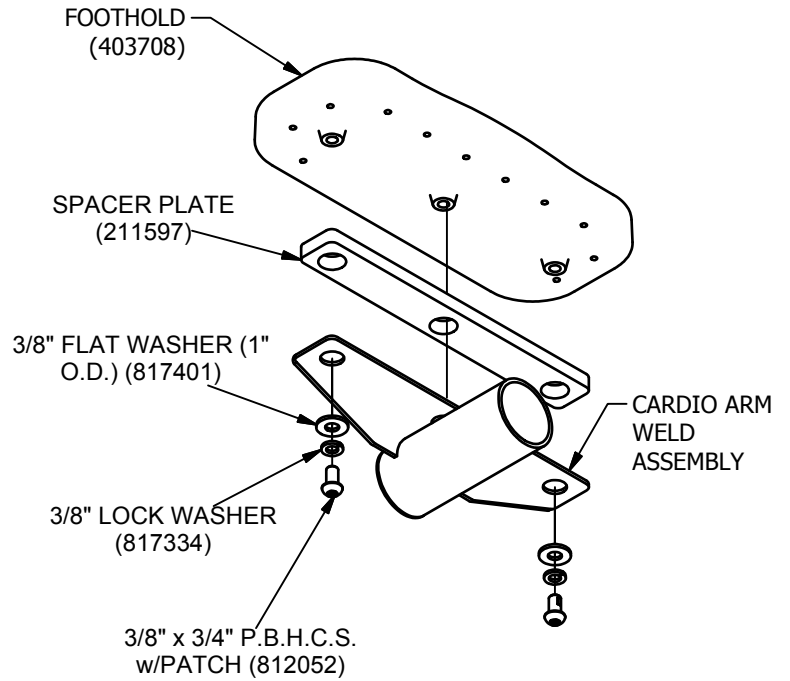
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UP164J CARDIO WALKER (FOOTING)
UP164S CARDIO WALKER (IN GROUND)
UP164M CARDIO WALKER (SURFACE MOUNT)



CAP DETAIL



FOOTHOLD DETAIL

UP167J CAPTAINS CHAIR (FOOTING) UP167S CAPTAINS CHAIR (IN GROUND) UP167M CAPTAINS CHAIR (SURFACE MOUNT)

Parts List				
DESCRIPTION	UP167J (FOOTING)	UP167S (IN-GROUND)	UP167M (SURFACE MOUNT)	PART NUMBER
FRAME ASSEMBLY	1	1	1	211151
CUSHION	5	5	5	209075
ARM ASSEMBLY (LEFT)	1	1	1	211158
ARM ASSEMBLY (RIGHT)	1	1	1	211165
5" BASE COVER	1	1	1	207659
FOOTBUCK ASS'Y	0	1	0	206467
HARDWARE COMPLETE	1	0	0	313726
HARDWARE COMPLETE	0	1	0	313727
HARDWARE COMPLETE	0	0	1	313728
3/4" LOCKWASHER	4	4	4	817354*
3/4" FLATWASHER (2" O.D.)	8	4	0	817420*
3/4" HEX NUT	8	4	0	804058*
3/4" WEDGE ANCHOR	0	0	4	206358*
3/4" ANCHOR BOLT	4	0	0	800001*
3/4" x 2" HEX HEAD CAP SCREW	0	4	0	801533*
1/2" x 4" HEX HEAD BOLT	2	2	2	801224*
1/2" FLAT WASHER	4	4	4	817412*
1/2" LOCKWASHER	2	2	2	817342*
1/2" HEX NUT	2	2	2	804055*
5" INJECTION MOLDED CAP	1	1	1	207710*
12MM DO-NUT CAP	4	4	4	G036BK*
12MM DO-NUT BASE	4	4	4	G034BK*
1/2" ANCHOR ROD	0	2	0	135038*
USAGE/WARNING LABEL	1	1	1	403890*

Unless Otherwise Specified, All Units of Measure are Each

Items listed below Hardware Complete line are included with Hardware Complete Number

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. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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

SPECIFICATIONS: **Note: Loctite (supplied by others) should be used on any non-patch hardware.**

BASE COVER: The Base Cover shall be constructed from aluminum and powder coated.

CUSHION: The Cushion shall be injection molded Nylon W6.

5" PLASTIC CAP: The 5" Plastic Cap shall be constructed from injection molded Low Density Polyethylene, black in color.

WELD ASSEMBLIES:

ARM ASSEMBLIES: The handlebar assemblies shall be constructed from 1.66" O.D. x 0.109" steel tubing. The assemblies shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

Issued/Revised: 10/05/16



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UP167J CAPTAINS CHAIR (FOOTING) UP167S CAPTAINS CHAIR (IN GROUND) UP167M CAPTAINS CHAIR (SURFACE MOUNT)

MAIN POST: Main Post assembly shall be manufactured with 5" O.D. galvanized upright. The upright shall be 7 gauge (.180") galvanized round tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. The main support frame assemblies and formed supports shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

FOOTBUCK: The upright shall be fabricated of 5" O.D. galvanized pipe and the mounting plate shall be a fabricated 3/8" hot rolled flat steel. Shall be a once piece welded unit, with powder coat black finish.

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. The 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-522-68).

HARDWARE: All nuts, bolts, screws, and lock washers used in the assembly 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.

SPECIFICATIONS: PLAYCORE © has a policy of continuous improvement and reserves the right to discontinue or change specifications without notice.

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 completed. Bracing material is required during assembly.

NOTE: Assembly and leveling times will be greatly reduced if a transit is used to set location and depth of ground holes.

INSTALLATION INSTRUCTIONS FOR UP167J (FOOTING):

1. Attach Left and Right Arm Assemblies to Frame Assembly using Base, 1/2" x 4" Hex Head Bolts, 1/2" Lockwashers, 1/2" Flatwashers, 1/2" Hex Nuts, and Caps. Refer to Arm Assembly Detail. Attach Cushion using M8 x 25 Cap Screw, 8mm Flat Washer, and 8mm Lock Washer provided with Cushion. See Cushion Assembly Detail.
2. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
3. Fill hole with concrete. While the concrete is still soft, yet firm enough to support the Captains Chair, Place (4) Anchor Bolts of the Captains Chair in position. See Footing Detail. **NOTE:** Use Captains Chair as a template for Anchor Bolt location, then remove Captains Chair.

IMPORTANT: DO NOT MOUNT THE CAPTAINS CHAIR TO THE ANCHOR BOLTS FOR AT LEAST 7 DAYS.

4. After concrete has cured and set for a minimum of 7 days, attach Captains Chair to 3/4" Anchor Bolt using 3/4" Flat Washer (2" O.D.), 3/4" Lock Washer, and 3/4" Hex Nut. See Footing Assembly Detail.
5. Attach Base Cover to Equipment Post using Base Cover Nut and Base Cover Bolt included with Base Cover. See Base Cover Detail.

UP167J CAPTAINS CHAIR (FOOTING) UP167S CAPTAINS CHAIR (IN GROUND) UP167M CAPTAINS CHAIR (SURFACE MOUNT)

INSTALLATION INSTRUCTIONS FOR UP167S (IN-GROUND):

1. Attach Left and Right Arm Assemblies to Frame Assembly using Base, 1/2" x 4" Hex Head Bolts, 1/2" Lockwashers, 1/2" Flatwashers, 1/2" Hex Nuts, and Caps. Refer to Arm Assembly Detail. Attach Cushion using M8 x 25 Cap Screw, 8mm Flat Washer, and 8mm Lock Washer provided with Cushion. See Cushion Assembly Detail.
2. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
3. Attach the Footbuck Weld Assembly to the Captains Chair using 3/4" Hex Nut, 3/4" Lock Washer, 3/4" Flat Washer (2" O.D.), 3/4" x 2" Hex Head Cap Screw. See In-Ground Assembly Detail.
4. Place Captains Chair into holes making sure it rests on the brick. See In-Ground Detail.
5. Level Captains Chair using sway bracing.
6. Pour concrete according to the Plan View and Elevation View. Allow concrete to cure for a minimum of 7 days.
7. Attach Base Cover to Equipment Post using Base Cover Detail.

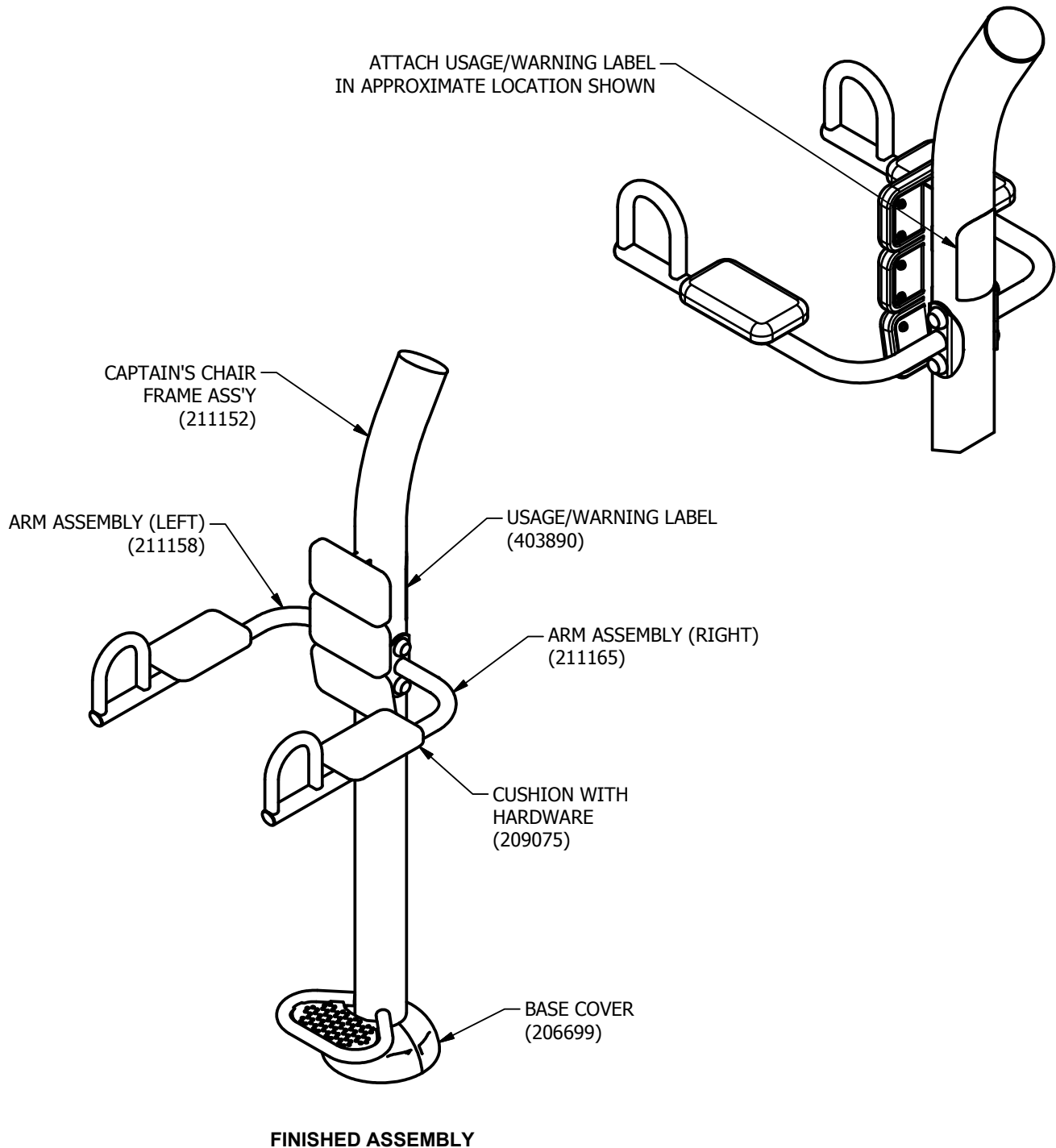
INSTALLATION INSTRUCTIONS FOR UP167M (SURFACE MOUNT):

1. Attach Left and Right Arm Assemblies to Frame Assembly using Base, 1/2" x 4" Hex Head Bolts, 1/2" Lockwashers, 1/2" Flatwashers, 1/2" Hex Nuts, and Caps. Refer to Arm Assembly Detail. Attach Cushion using M8 x 25 Cap Screw, 8mm Flat Washer, and 8mm Lock Washer provided with Cushion. See Cushion Assembly Detail.
2. Mark correct location of holes for Wedge Anchors using the Base Plate as a guide.
3. Drill 3/4" x 2 1/2" hole in concrete for Wedge Anchor. See Surface Assembly Detail.
4. Insert Wedge Anchors and secure with 3/4" Flat Washers (2" O.D.), 3/4" Lock Washer, and 3/4" Hex Nut. See Surface Assembly Detail.
5. Attach Base Cover to Equipment Post using Base Cover Detail.

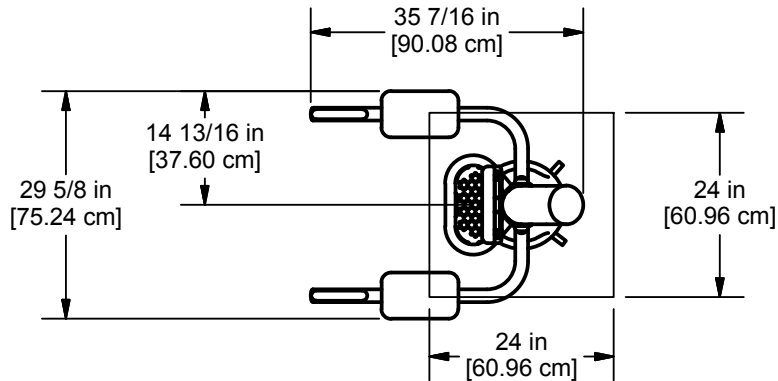
MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

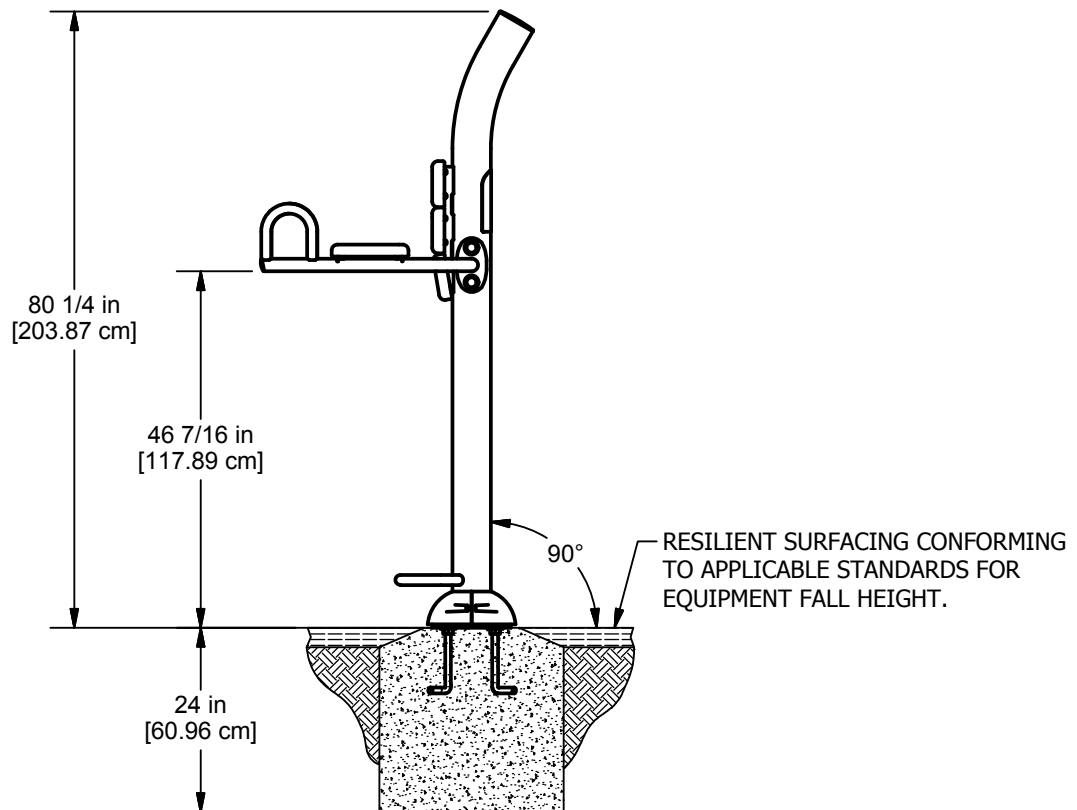
UP167J CAPTAINS CHAIR (FOOTING) UP167S CAPTAINS CHAIR (IN GROUND) UP167M CAPTAINS CHAIR (SURFACE MOUNT)



UP167J CAPTAINS CHAIR (FOOTING)
UP167S CAPTAINS CHAIR (IN GROUND)
UP167M CAPTAINS CHAIR (SURFACE MOUNT)



PLAN VIEW



ELEVATION VIEW

UP167J (FOOTING)

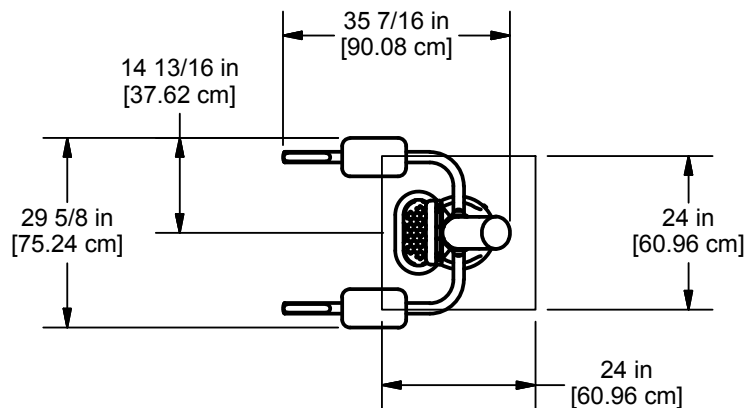
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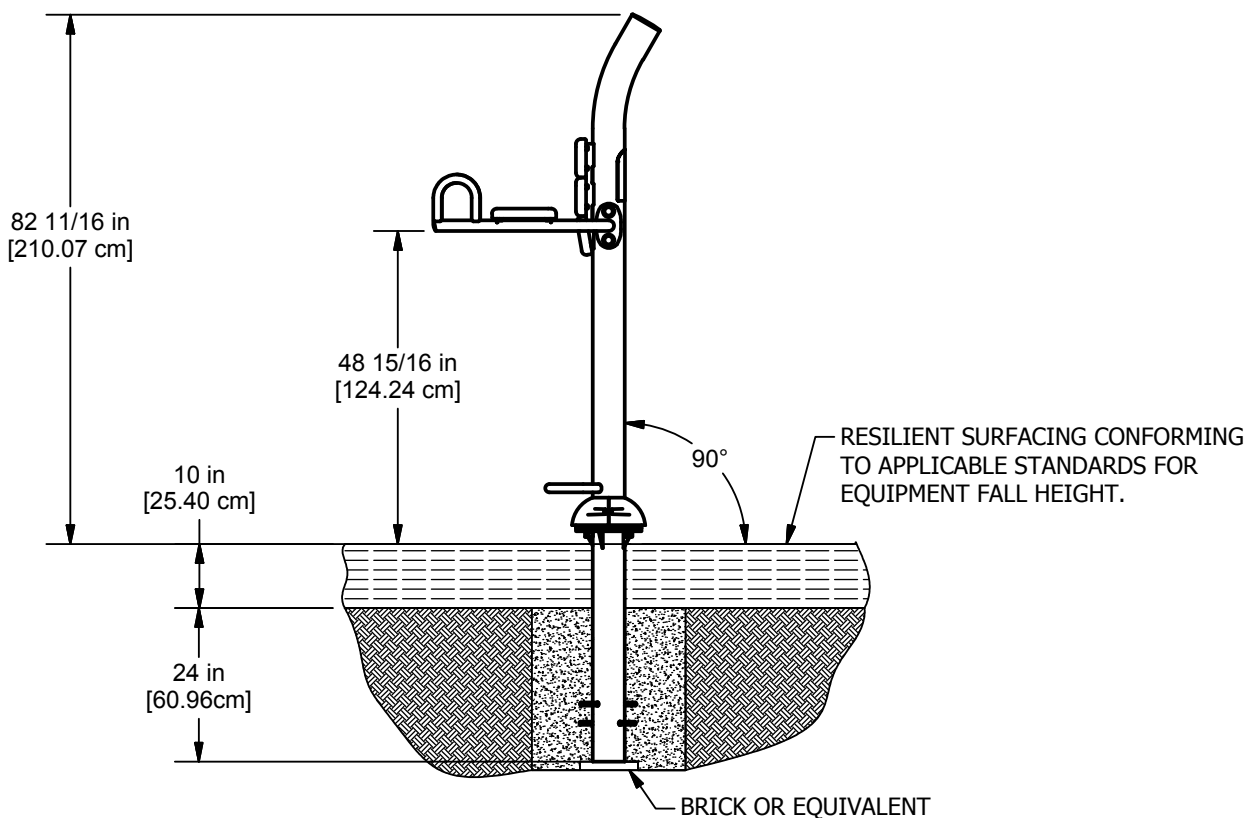


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UP167J CAPTAINS CHAIR (FOOTING)
UP167S CAPTAINS CHAIR (IN GROUND)
UP167M CAPTAINS CHAIR (SURFACE MOUNT)



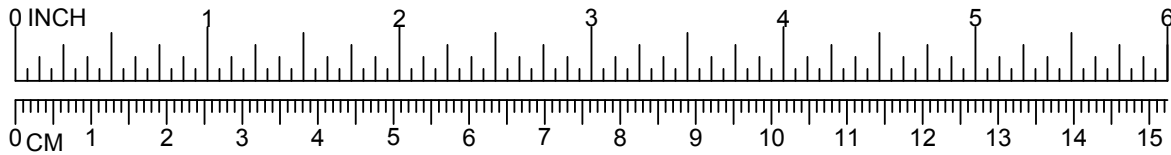
PLAN VIEW



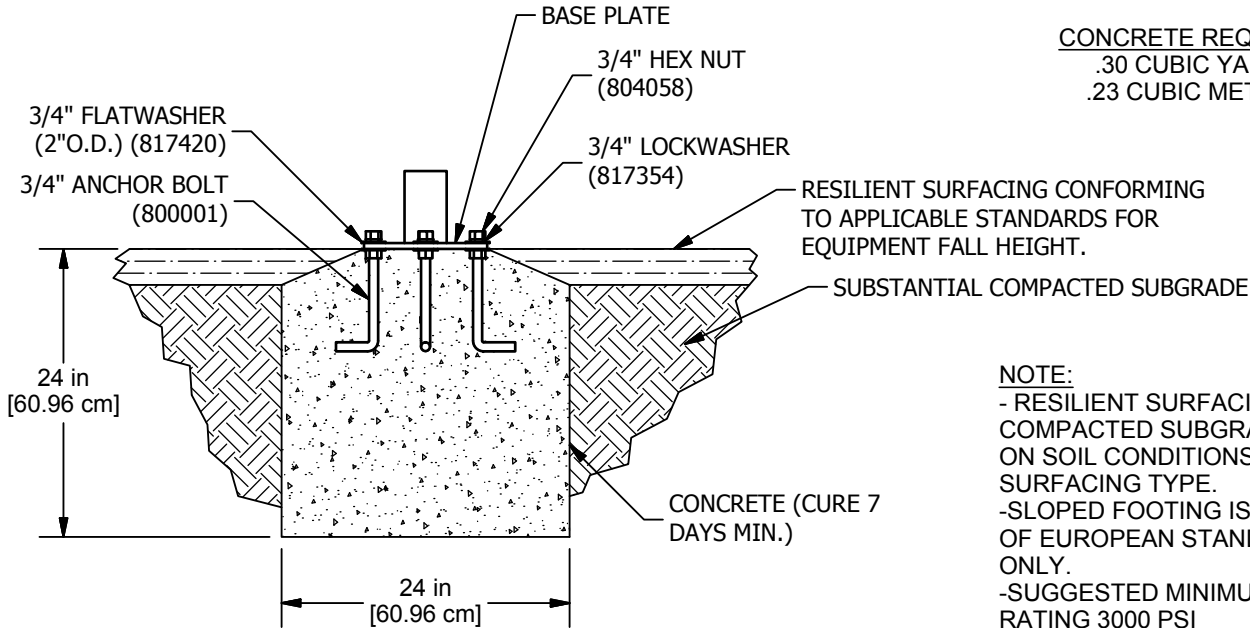
ELEVATION VIEW

UP167S (IN GROUND)

Issued/Revised: 10/05/16



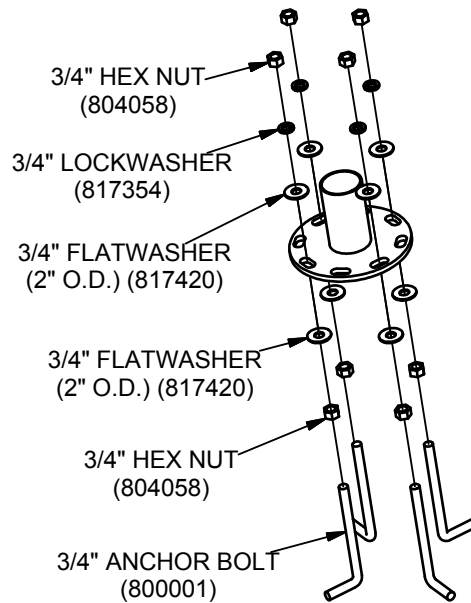
UP167J CAPTAINS CHAIR (FOOTING) **UP167S CAPTAINS CHAIR (IN GROUND)** **UP167M CAPTAINS CHAIR (SURFACE MOUNT)**



CONCRETE REQUIRED:
.30 CUBIC YARDS
.23 CUBIC METERS

NOTE:
- RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.
- SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.
- SUGGESTED MINIMUM CONCRETE RATING 3000 PSI

FOOTING DETAIL



FOOTING ASSEMBLY DETAIL

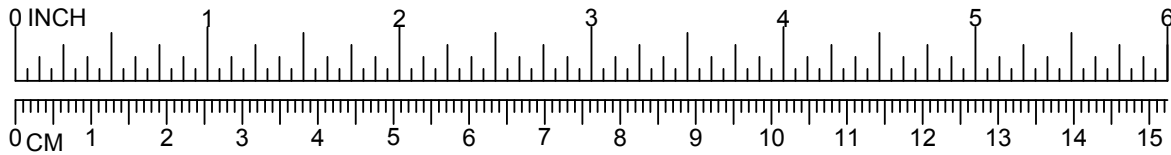
UP167J (FOOTING)

Issued/Revised: 10/05/16

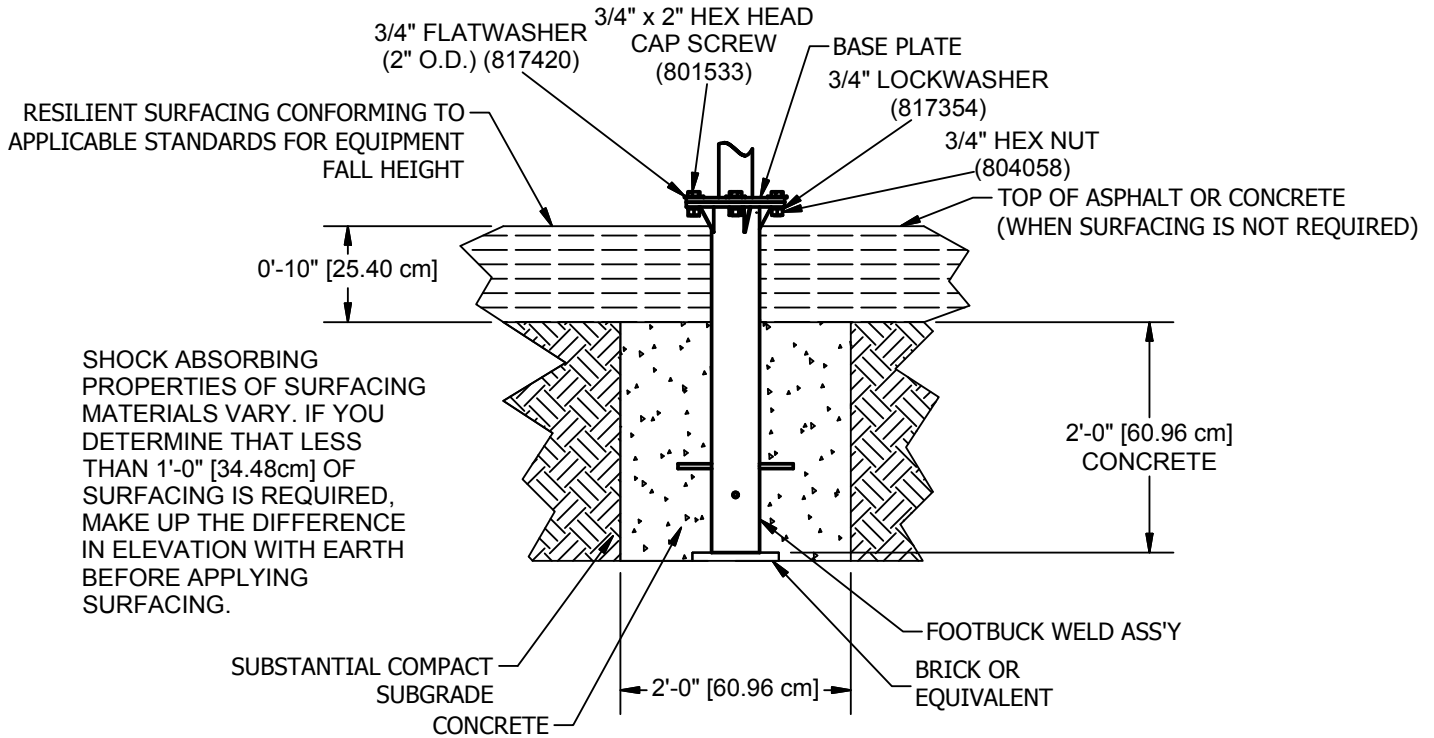


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UP167J CAPTAINS CHAIR (FOOTING) **UP167S CAPTAINS CHAIR (IN GROUND)** **UP167M CAPTAINS CHAIR (SURFACE MOUNT)**



IN GROUND DETAIL

CONCRETE REQUIRED:

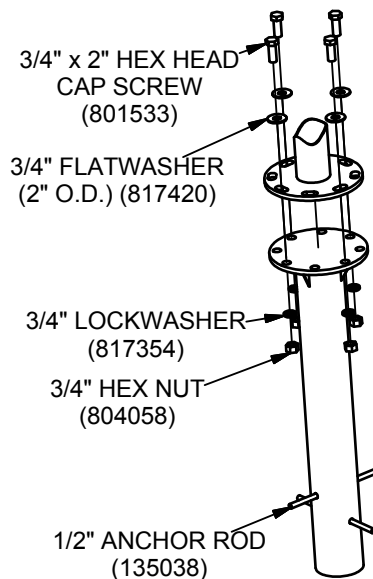
.30 CUBIC YARDS
.23 CUBIC METERS

NOTE:

-RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.

-SLOPED FOOTING (45° MIN) IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.

-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.



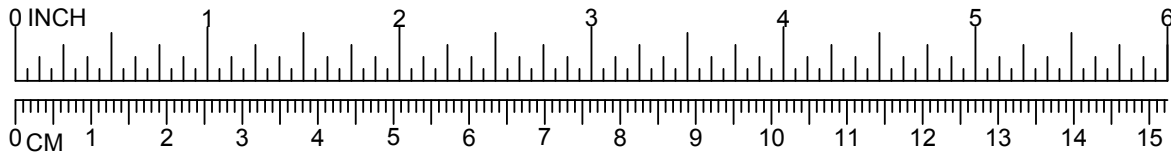
IN GROUND ASSEMBLY DETAIL **UP167S (IN GROUND)**

Issued/Revised: 10/05/16

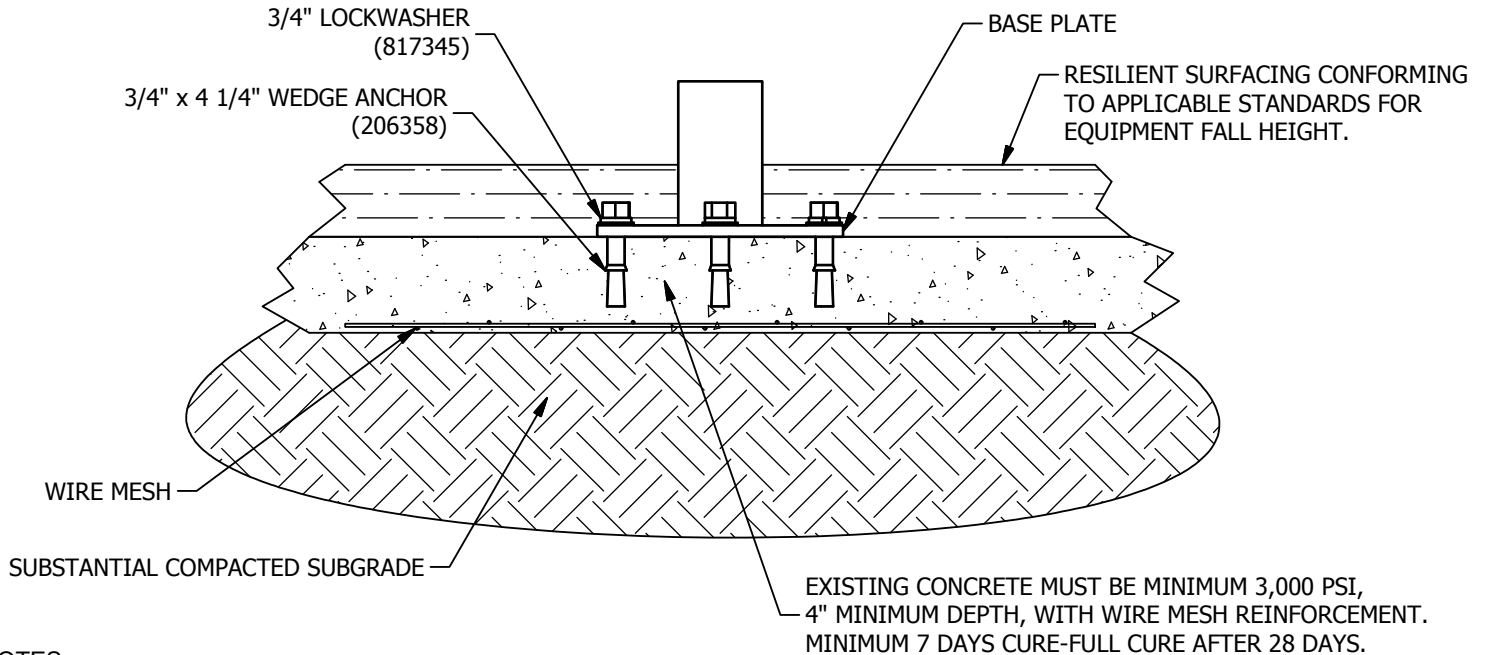


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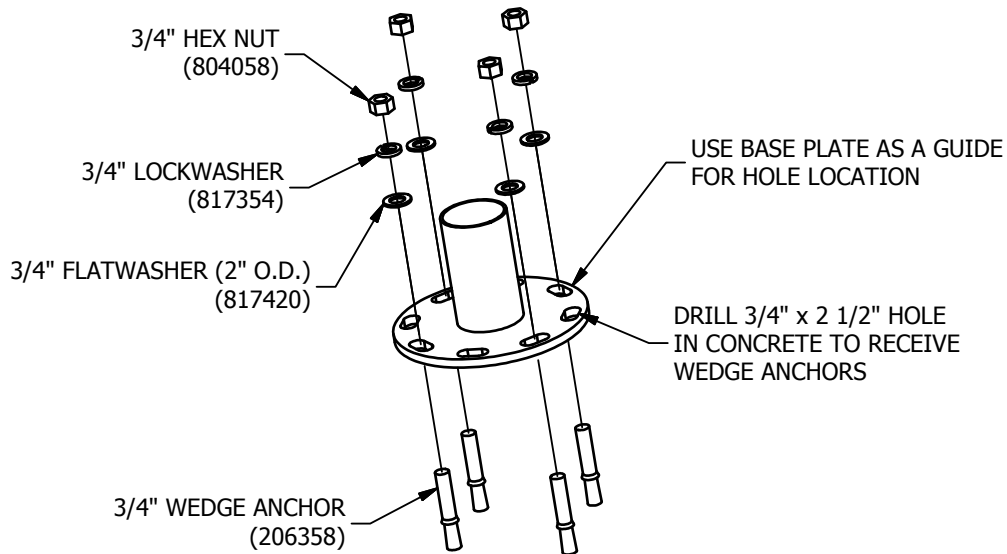
UP167J CAPTAINS CHAIR (FOOTING) **UP167S CAPTAINS CHAIR (IN GROUND)** **UP167M CAPTAINS CHAIR (SURFACE MOUNT)**



NOTES:
 -LOOSE FILL SURFACING NOT
 RECOMMENDED FOR SURFACE MOUNT.

SURFACE DETAIL

-RESILIENT SURFACING AND SUBSTANTIAL
 COMPACTED SUBGRADE DEPTHS DEPEND
 ON SOIL CONDITION AND RESILIENT SURFACING TYPE.



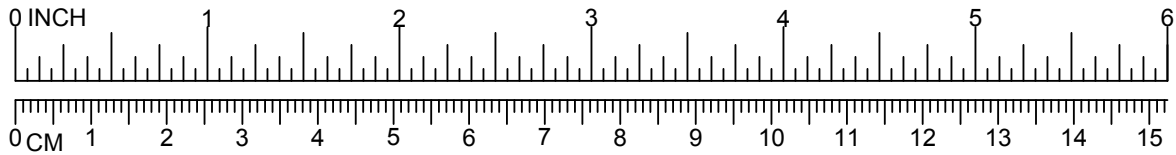
SURFACE ASSEMBLY DETAIL **UP167M (SURFACE MOUNT)**

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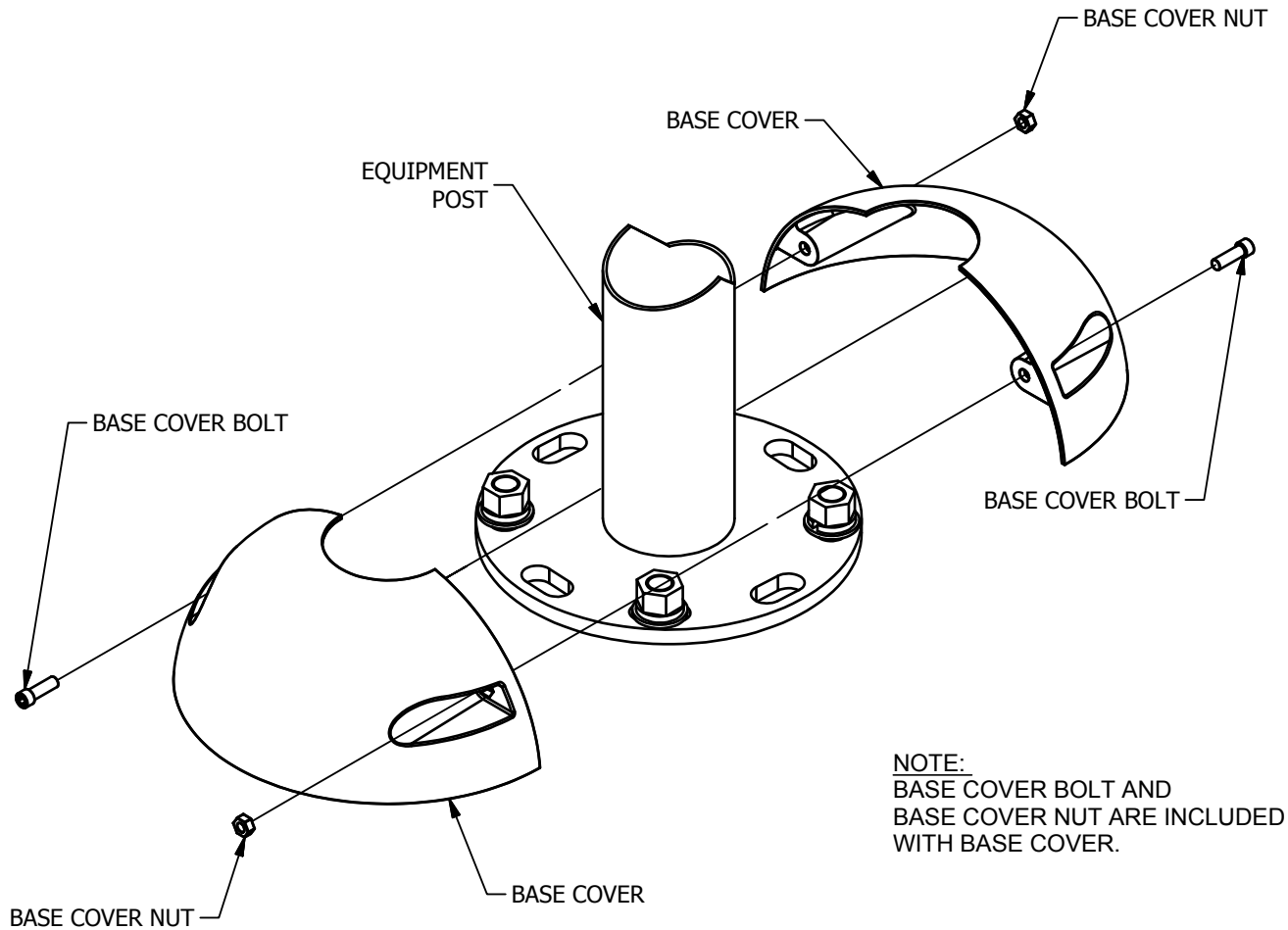


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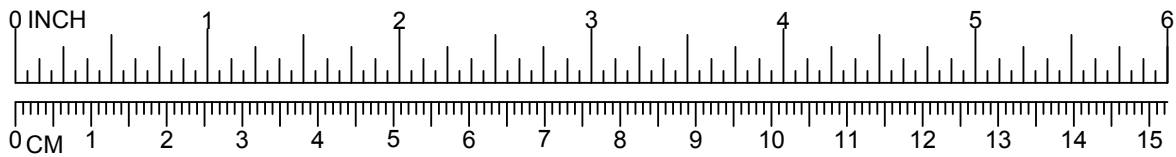


UP167J CAPTAINS CHAIR (FOOTING)
UP167S CAPTAINS CHAIR (IN GROUND)
UP167M CAPTAINS CHAIR (SURFACE MOUNT)

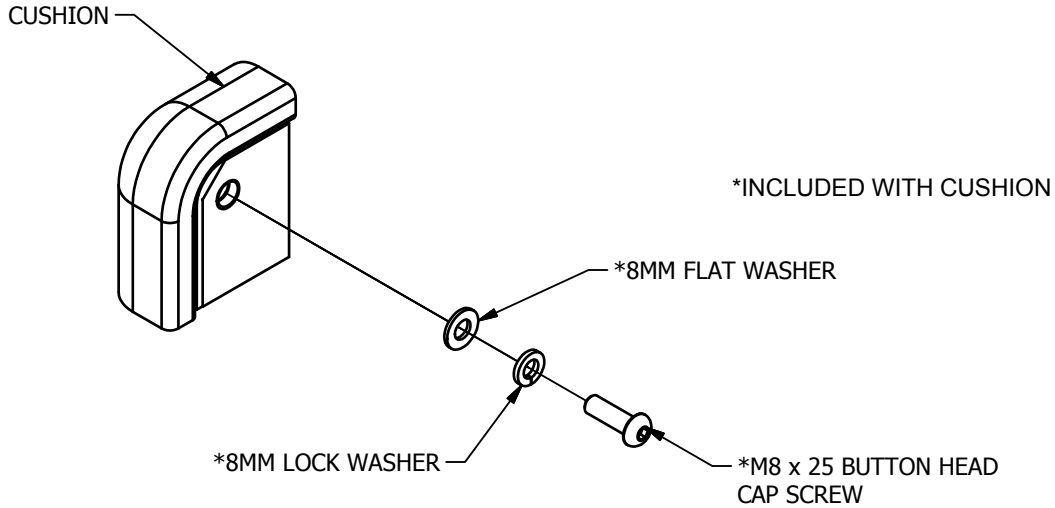


NOTE:
BASE COVER BOLT AND
BASE COVER NUT ARE INCLUDED
WITH BASE COVER.

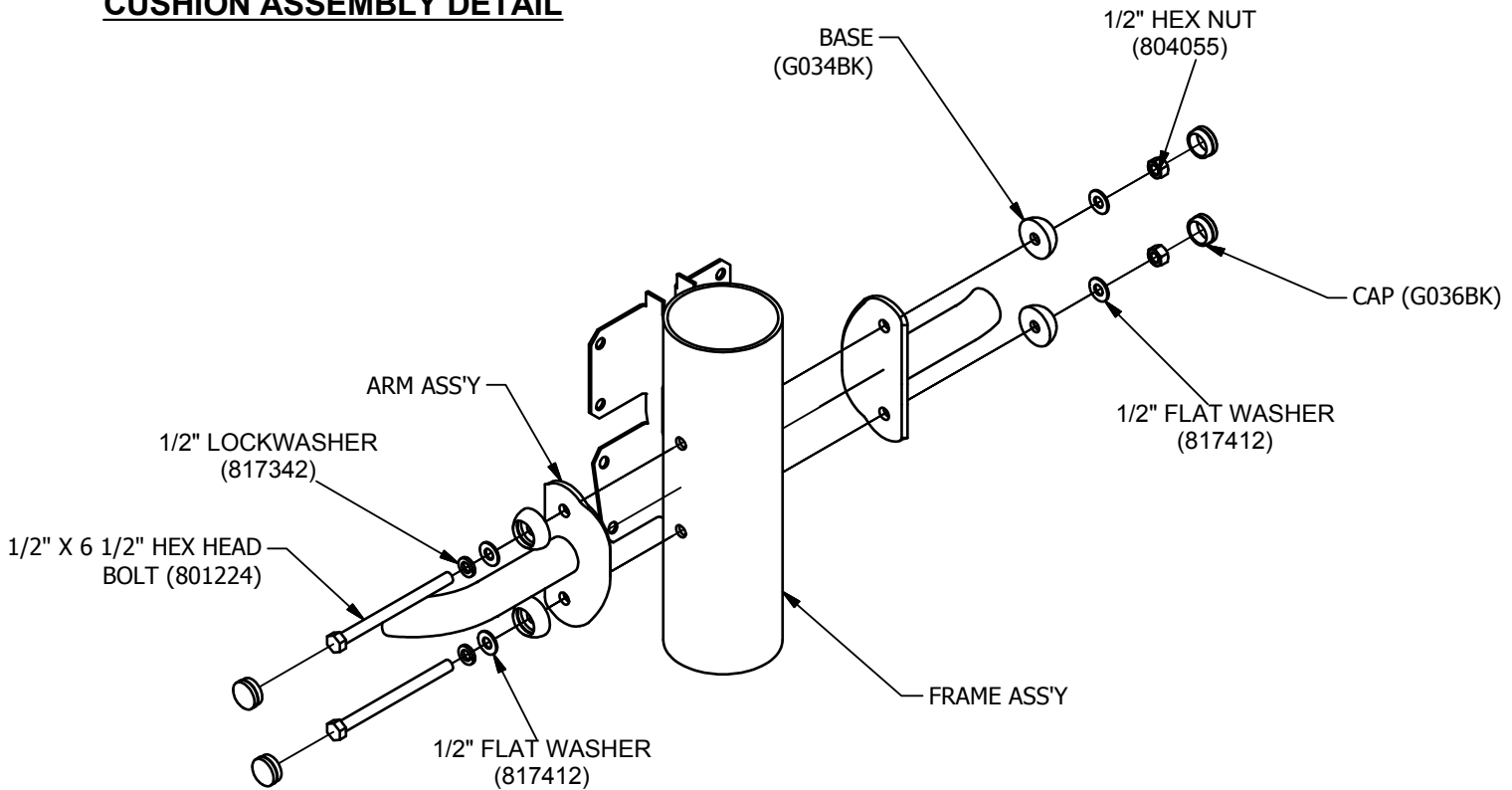
BASE COVER DETAIL



UP167J CAPTAINS CHAIR (FOOTING) **UP167S CAPTAINS CHAIR (IN GROUND)** **UP167M CAPTAINS CHAIR (SURFACE MOUNT)**



CUSHION ASSEMBLY DETAIL



ARM ASSEMBLY DETAIL

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UP170J LEG PRESS (FOOTING) UP170S LEG PRESS (IN GROUND) UP170M LEG PRESS (SURFACE MOUNT)

Parts List				
DESCRIPTION	UP170J (FOOTING)	UP170S (IN-GROUND)	UP170M (SURFACE MOUNT)	PART NUMBER
POST ASSEMBLY	1	1	1	403732
SEAT WELD ASS'Y	1	1	1	211500
ADA SEAT/BACKREST	2	2	2	207600
FOOTHOLD	2	2	2	403708
5" BASE COVER	1	1	1	207659
FOOTBUCK WELD ASS'Y	0	1	0	206467
HARDWARE COMPLETE	0	0	1	403943
HARDWARE COMPLETE	1	0	0	403941
HARDWARE COMPLETE	0	1	0	403942
3/4" HEX NUT	8	4	0	804058*
3/4" FLATWASHER (2" O.D.)	8	4	0	817420*
3/4" LOCKWASHER	4	4	4	817354*
3/4" x 2" HEX HEAD CAP SCREW	0	4	0	801533*
1/2" ANCHOR ROD	0	2	0	135038*
1/2" FLATWASHER	2	2	2	817700*
1/2" x 1 1/4" B.H.C.S.	2	2	2	811062*
3/8" LOCKWASHER	12	12	14	817334*
3/8" FLAT WASHER	8	8	8	817410*
3/8" x 3/4" P.B.H.C.S. w/PATCH	8	8	14	812052*
3/8" FLAT WASHER (1" O.D.)	4	4	6	817401*
3/4" WEDGE ANCHOR	0	0	4	206358*
3/4" ANCHOR BOLT	4	0	0	800001*
1/2" FLAT WASHER	2	2	2	817412*
12MM DO-NUT BASE	2	2	2	G034BK*
12MM DO-NUT CAP	2	2	2	G036BK*
SPACER PLATE	2	2	2	211597*
5" INJECTION MOLDED CAP	1	1	1	207710*
USAGE/WARNING LABEL	1	1	1	403892*

Unless Otherwise Specified, All Units of Measure are Each

Items listed below Hardware Complete line are included with Hardware Complete Number

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. Any bolt end protruding more than two full threads beyond the face of the nut causes risk of clothing entanglement. Promptly cut-off flush, file smooth, and treat to prevent corrosion.

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.

UP170J LEG PRESS (FOOTING) UP170S LEG PRESS (IN GROUND) UP170M LEG PRESS (SURFACE MOUNT)

SPECIFICATIONS:

BACKREST/SEAT: The Backrest and seat shall be constructed from injection molded Nylon W6.

BASE COVER: The Base Cover shall be constructed from aluminum and powder coated.

BOLT GUARD CAP AND BASE: The Bolt Guard shall be constructed from Nylon PA6, and shall be black in color.

FOOTHOLD: The Foothold shall be constructed of die cast aluminum and powder coated.

5" PLASTIC CAP: The 5" Plastic Cap shall be constructed from injection molded Low Density Polyethylene.

WELD ASSEMBLIES:

SEAT WELD ASSEMBLY: Shall be an all welded construction consisting of 2 3/8" O.D. Schedule 40 tubing, 3/8" Laser Cut Steel tab, 2 3/8" O.D. galvanized pipe, and a 1/8" thick hot rolled steel brace. Assembly shall have a powder coat finish.

POST ASSEMBLY: Leg Press assembly shall be manufactured with 3" I.D. x .300" extra strong black pipe, 3/8" x 1 1/2" hot rolled steel plate, 1/8" laser cut steel bracket, 14 gauge hot rolled galvanized steel pipe cap, 1/2" hot rolled steel mounting plate, 2 3/8" O.D. galvanized pipe, and 5" O.D. galvanized upright. The upright shall be 11 gauge (.120") galvanized round tubing, manufactured to ASTM A-500 Grade B tolerances from cold-formed steel conforming to ASTM A-569 Sheet Spec for steel coil. Minimum yield strength shall be 50,000 psi and minimum tensile strength shall be 55,000 psi. The exterior surface is hot dip galvanized, chromate conversion coated, and a clear high performance organic polymer is applied. The inside diameter has 81% minimum zinc rich primer capable of providing excellent rust protection and fabrication characteristics. All coatings are applied inside and out after welding for superior corrosion protection throughout. Exterior surface galvanizing zinc purity is 99% as per ASTM B-6 high grade and special high grade. Galvanizing coverage shall demonstrate the ability to exceed 1000 hours salt spray corrosion exposure in accordance with ASTM B-117. Internal surface zinc rich 81% minimum zinc dust content in organic resin, as per ASTM F-1234, Section 5.2.4, Type D. The main support frame assemblies and formed supports shall be coated with a custom formula of TGIC polyester powder, after fabrication in conformance with the specifications outlined herein.

MECHANISM PARTS:

STOP COG: Shall be manufactured with 3/8" laser cut steel.

DISK BEARING: The disk bearing should be pre lubricated 3 3/8" O.D. 1 1/8" square bore stainless steel bearing.

MACHINED SHAFT: The machine shaft shall be manufactured with 1 3/16" x 9 1/8" stainless steel shaft.

RUBBER SPRING: Shall consist of rubber encapsulated by cast steel with a steel inner core.

FOOTBUCK: The upright shall be fabricated of 5" O.D. galvanized pipe and the mounting plate shall be a fabricated 3/8" hot rolled flat steel. Shall be a once piece welded unit.

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. The 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-522-68).

HARDWARE: All nuts, bolts, screws, and lock washers used in the assembly 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.

UP170J LEG PRESS (FOOTING) UP170S LEG PRESS (IN GROUND) UP170M LEG PRESS (SURFACE MOUNT)

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 completed. Bracing material is required during assembly.

NOTE: Assembly and leveling times will be greatly reduced if a transit is used to set location and depth of ground holes.

INSTALLATION INSTRUCTIONS FOR UP170J (FOOTING):

1. Attach Seat to frame using 3/8" x 3/4" P.B.H.C.S w/ Patch, 3/8" Lockwasher and 3/8" Flatwasher. See Seat Detail. Attach Foothold to Frame using 3/8" x 3/4" P.B.H.C.S. w/ Patch, 3/8" Lockwasher, 3/8" Flatwasher, and Filler Plate. See Foothold Detail. Insert Injection Molded Cap, refer to Cap Detail.
2. Attach Chair Pipe Ass'y to Main Post Ass'y using 1/2" x 1 1/4" B.H.C.S, 1/2" Flatwashers, and Bolt Guard Caps and Bases. See Leg Press Ass'y Detail.
3. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
4. Fill hole with concrete. While the concrete is still soft, yet firm enough to support the Leg Press, Place (4) Anchor Bolts of the Leg Press in position. See Footing Detail. **NOTE:** Use Leg Press as a template for Anchor Bolt location, then remove Leg Press.

IMPORTANT: DO NOT MOUNT THE LEG PRESS TO THE ANCHOR BOLTS FOR AT LEAST 7 DAYS.

5. After concrete has cured and set for a minimum of 7 Days, attach Leg Press to 3/4" Anchor Bolt using 3/4" Flat Washer (2" O.D.), 3/4" Lock Washer, and 3/4" Hex Nut. See Footing Assembly Detail.
6. Attach Base Cover to Equipment Post using Base Cover Nut and Base Cover Bolt included with Base Cover. See Base Cover Detail.

INSTALLATION INSTRUCTIONS FOR UP170S (IN-GROUND):

1. Attach Seat to frame using 3/8" x 3/4" P.B.H.C.S w/ Patch, 3/8" Lockwasher and 3/8" Flatwasher. See Seat Detail. Attach Foothold to Frame using 3/8" x 3/4" P.B.H.C.S. w/ Patch, 3/8" Lockwasher, 3/8" Flatwasher, and Filler Plate. See Foothold Detail. Insert Injection Molded Cap, refer to Cap Detail.
2. Attach Chair Pipe Ass'y to Main Post Ass'y using 1/2" x 1 1/4" B.H.C.S, 1/2" Flatwashers, and Bolt Guard Caps and Bases. See Leg Press Ass'y Detail.
3. Dig holes or drill holes according to Plan View and Elevation View. **NOTE:** Due to extremes in weather and soil conditions, hole size may have to be increased to meet local conditions.
4. Attach the Footbuck Weld Assembly to the Leg Press using 3/4" Hex Nut, 3/4" Lockwasher, 3/4" Flatwasher (2" O.D.), 3/4" x 2" Hex Head Cap Screw. See In-Ground Assembly Detail.
5. Place Leg Press into hole making sure it rests on the brick. See In-Ground Detail.
6. Level Leg Press using sway bracing.
7. Pour concrete according to the Plan View and Elevation View. Allow concrete to cure for a minimum of 7 days.
8. Attach Base Cover to Equipment Post using Base Cover Detail.

Issued/Revised: 10/14/16

UP170J LEG PRESS (FOOTING) UP170S LEG PRESS (IN GROUND) UP170M LEG PRESS (SURFACE MOUNT)

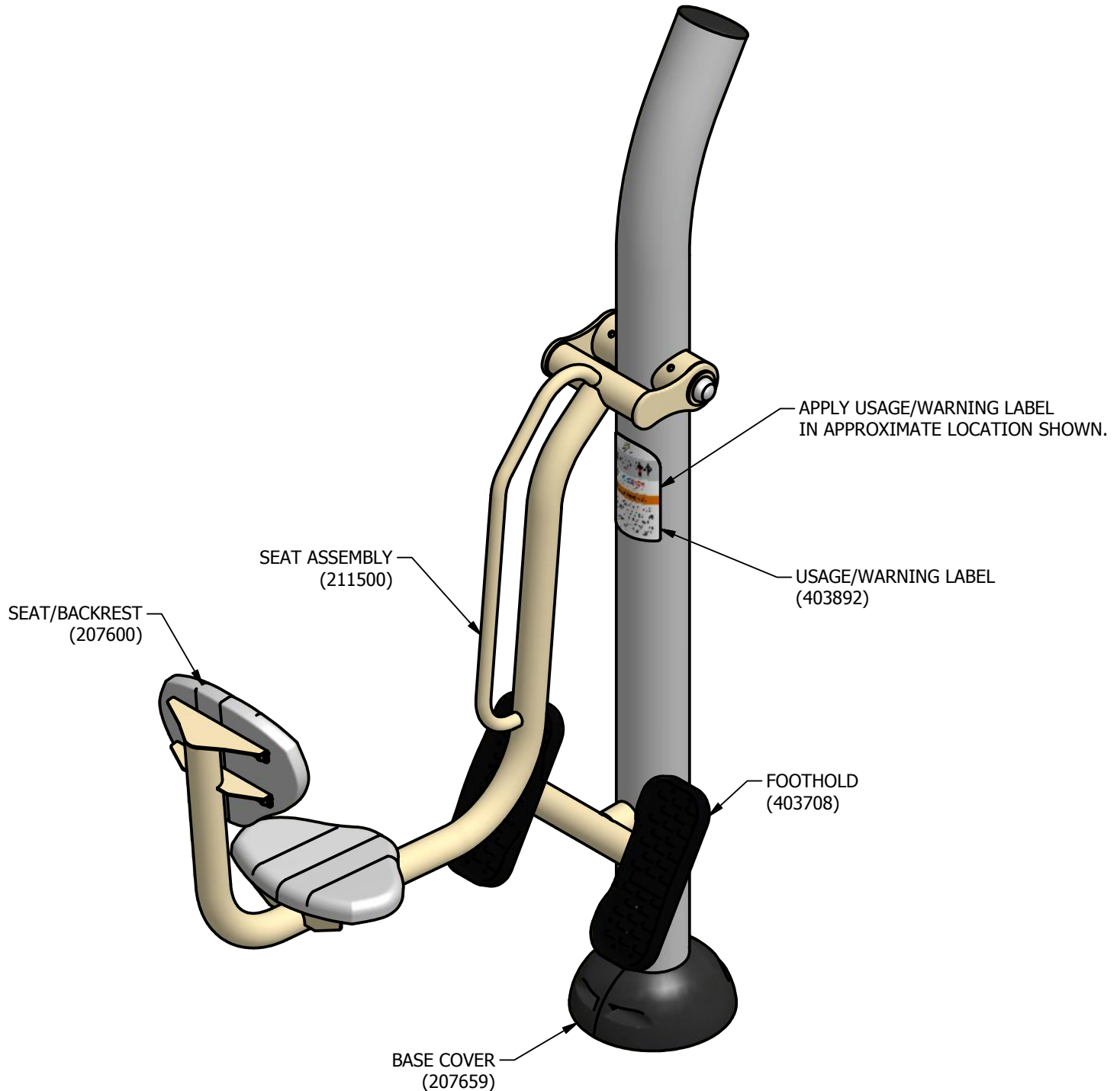
INSTALLATION INSTRUCTIONS FOR UP170M (SURFACE MOUNT):

1. Attach Seat to frame using 3/8" x 3/4" P.B.H.C.S w/ Patch, 3/8" Lockwasher and 3/8" Flatwasher. See Seat Detail. Attach Foothold to Frame using 3/8" x 3/4" P.B.H.C.S. w/ Patch, 3/8" Lockwasher, 3/8" Flatwasher, and Filler Plate. See Foothold Detail. Insert Injection Molded Cap, refer to Cap Detail.
2. Attach Chair Pipe Ass'y to Main Post Ass'y using 1/2" x 1 1/4" B.H.C.S, 1/2" Flatwashers, and Bolt Guard Caps and Bases. See Leg Press Ass'y Detail.
3. Mark correct location of holes for Wedge Anchor using the Base Plate as a guide.
4. Drill 3/4" x 2 1/2" hole in concrete for Wedge Anchor. See Surface Detail.
5. Insert Wedge Anchors and secure with 3/4" Flatwasher (2" O.D.), 3/4" Lockwasher, and 3/4" Hex Nut. See Surface Assembly Detail.
6. Attach Base Cover to Equipment Post using Base Cover Detail.

MAINTENANCE PROCEDURE:

Periodically check hardware for tightness, and tighten as necessary. Always check all parts for breakage or wear, and immediately put equipment out of service until any faulty parts found are repaired or replaced. Also Check all metal parts for rust, paint loss and touch-up if necessary with paint. Check for welded areas and verify integrity. Check periodically resilient surfacing for appropriate depth and remove extraneous materials that could cause injury, infection, or disease. Maintain detailed installation, inspection, maintenance, and repair records for each public-use playground equipment.

*UP170J LEG PRESS (FOOTING)
UP170S LEG PRESS (IN GROUND)
UP170M LEG PRESS (SURFACE MOUNT)*

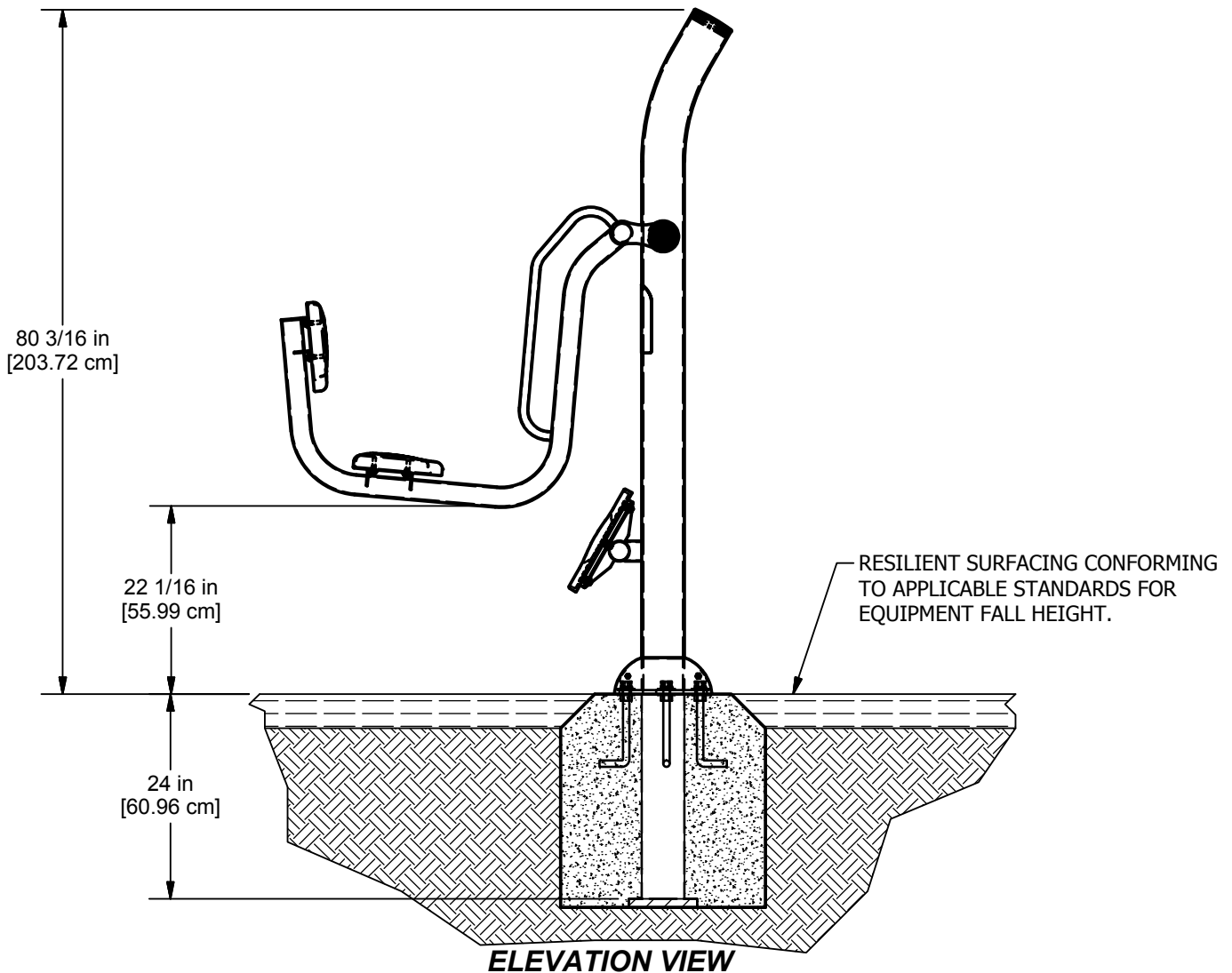
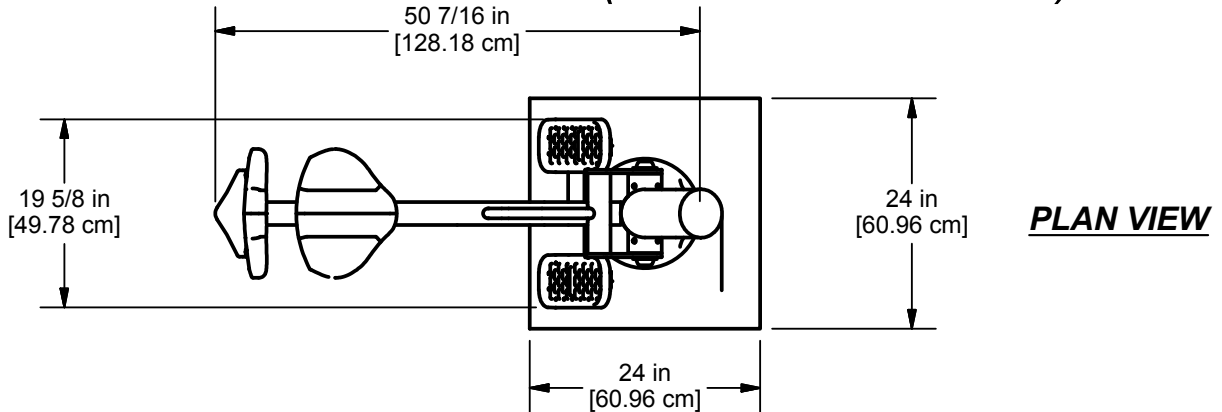


FINISHED ASSEMBLY

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UP170J LEG PRESS (FOOTING)
UP170S LEG PRESS (IN GROUND)
UP170M LEG PRESS (SURFACE MOUNT)



UP170J (FOOTING)

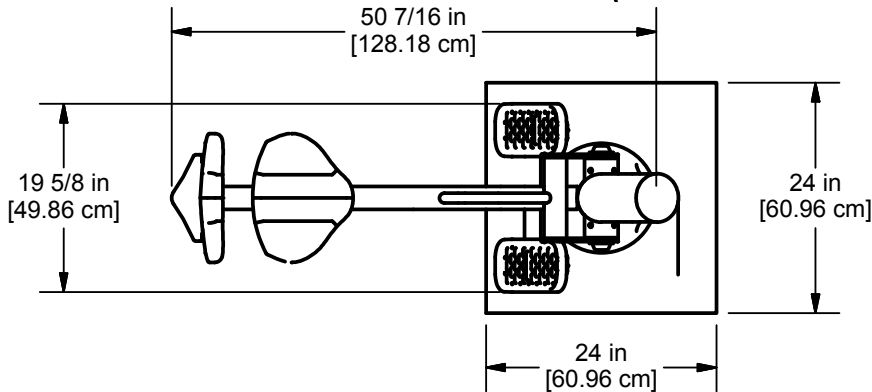
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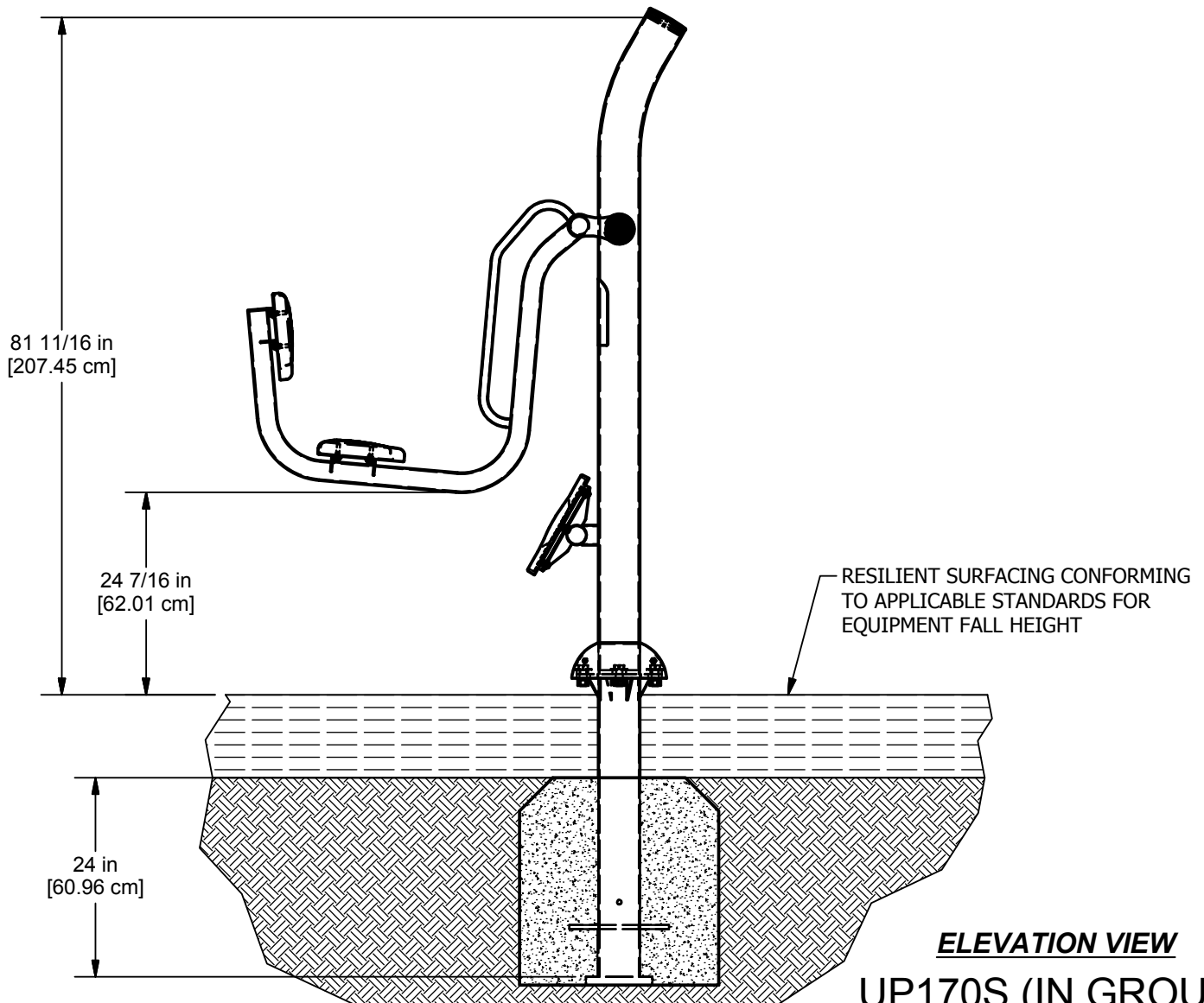


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UP170J LEG PRESS (FOOTING)
UP170S LEG PRESS (IN GROUND)
UP170M LEG PRESS (SURFACE MOUNT)



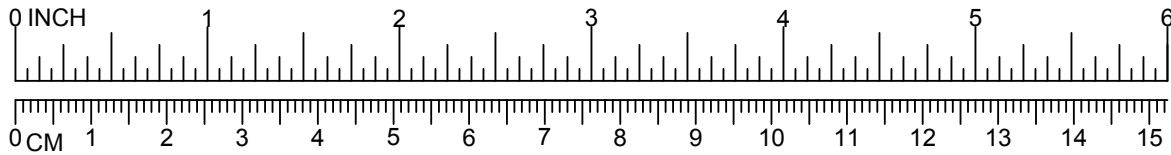
PLAN VIEW



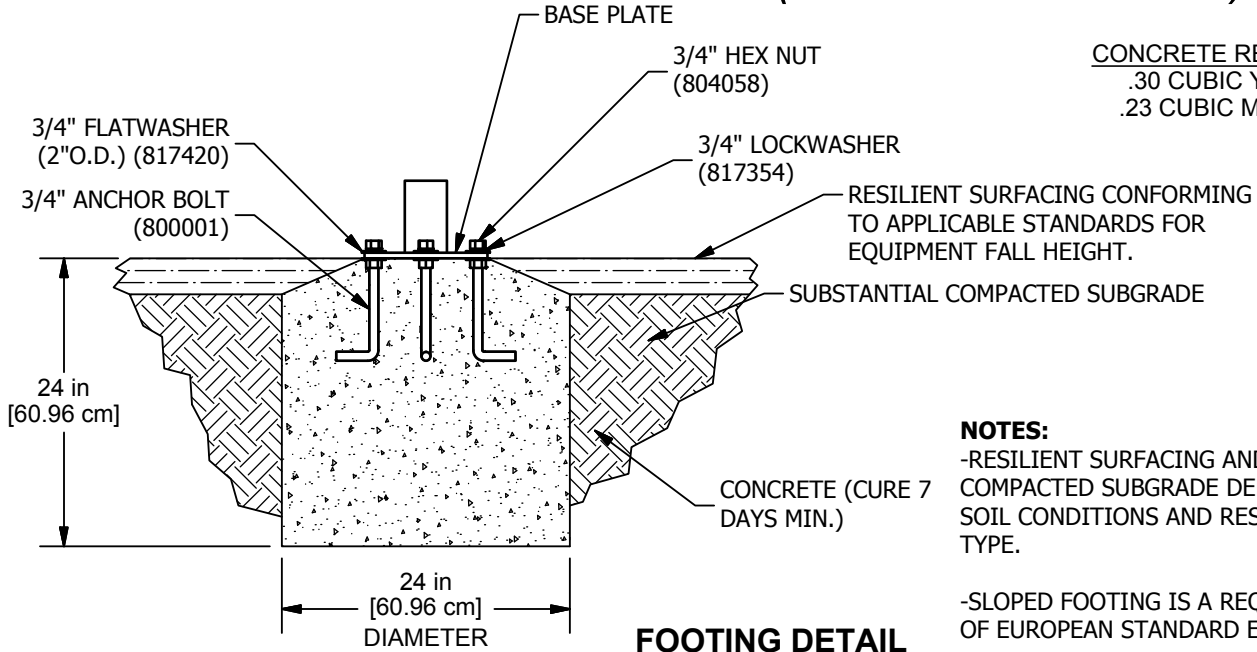
ELEVATION VIEW

UP170S (IN GROUND)

Issued/Revised: 10/14/16

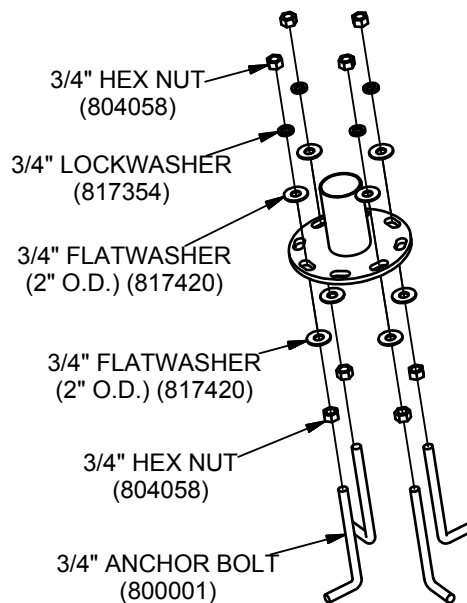


UP170J LEG PRESS (FOOTING) **UP170S LEG PRESS (IN GROUND)** **UP170M LEG PRESS (SURFACE MOUNT)**



CONCRETE REQUIRED:
.30 CUBIC YARDS
.23 CUBIC METERS

- NOTES:**
- RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.
 - SLOPED FOOTING IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY
 - SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.



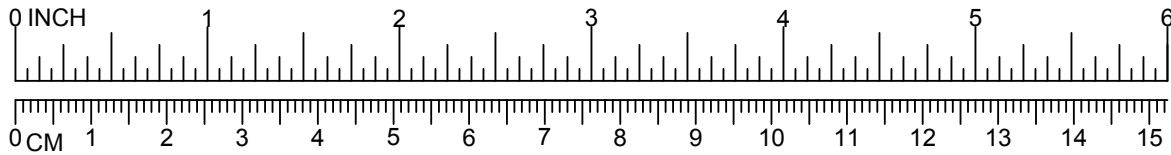
FOOTING ASSEMBLY DETAIL **UP170J (FOOTING)**

Issued/Revised: 10/14/16

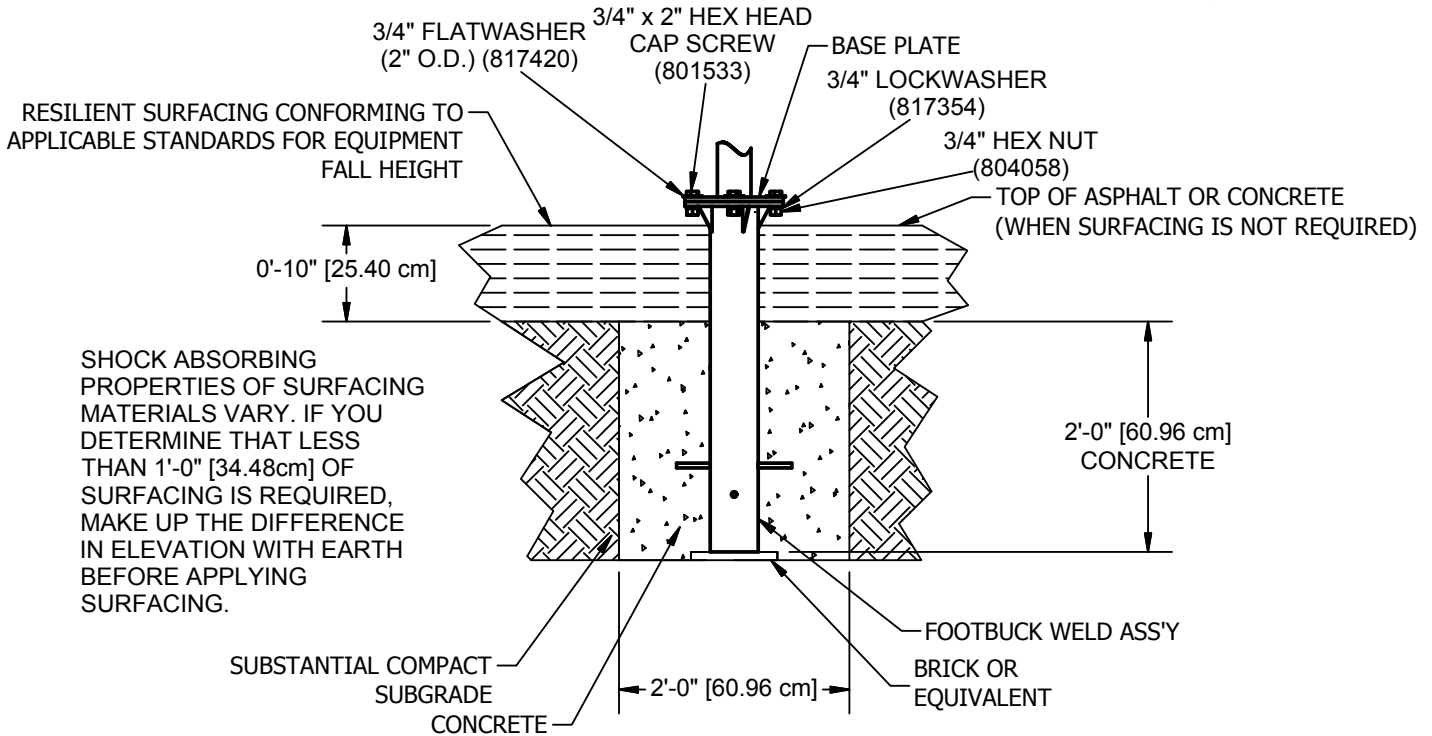


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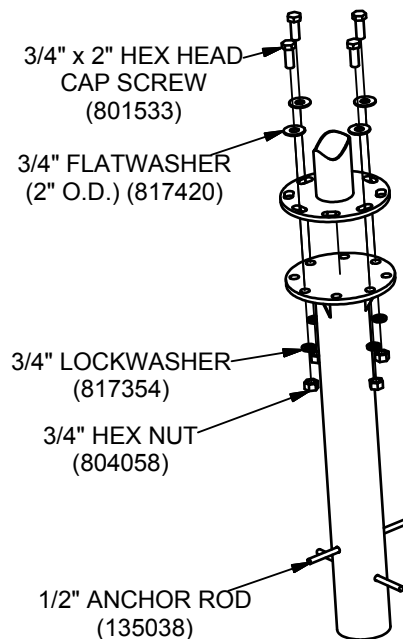
UP170J LEG PRESS (FOOTING) **UP170S LEG PRESS (IN GROUND)** **UP170M LEG PRESS (SURFACE MOUNT)**



CONCRETE REQUIRED:

.30 CUBIC YARDS
.23 CUBIC METERS

IN GROUND DETAIL



NOTE:

-RESILIENT SURFACING AND SUBSTANTIAL COMPACTED SUBGRADE DEPTHS DEPEND ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.

-SLOPED FOOTING (45° MIN) IS A REQUIREMENT OF EUROPEAN STANDARD EN1176-1 ONLY.

-SUGGESTED MINIMUM CONCRETE RATING 3000 PSI.

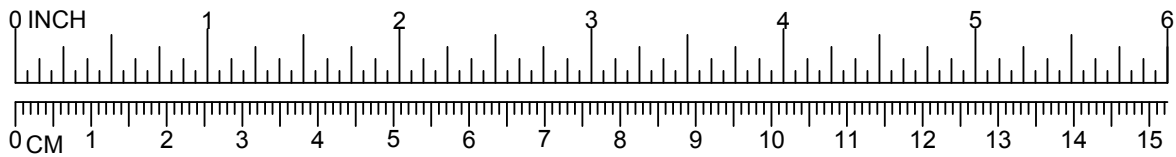
IN GROUND ASSEMBLY DETAIL **UP170S (IN GROUND)**

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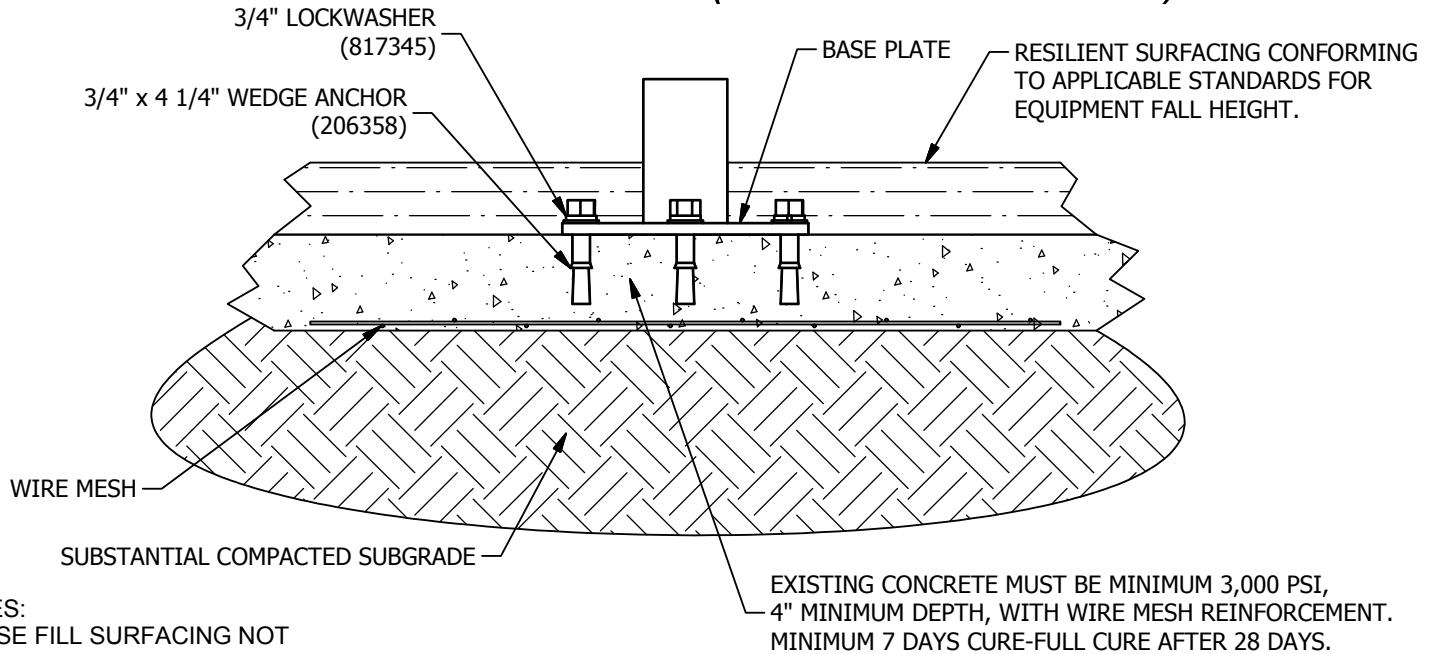


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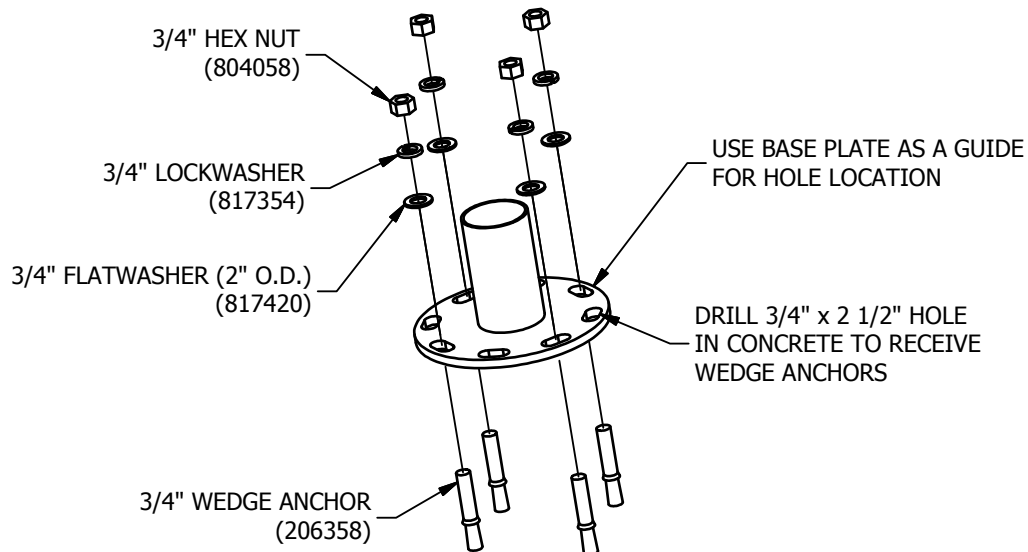
UP170J LEG PRESS (FOOTING) UP170S LEG PRESS (IN GROUND) UP170M LEG PRESS (SURFACE MOUNT)



NOTES:
-LOOSE FILL SURFACING NOT
RECOMMENDED FOR SURFACE MOUNT.

-RESILIENT SURFACING AND SUBSTANTIAL
COMPACTED SUBGRADE DEPTHS DEPEND
ON SOIL CONDITIONS AND RESILIENT SURFACING TYPE.

SURFACE DETAIL



SURFACE ASSEMBLY DETAIL UP170M (SURFACE MOUNT)

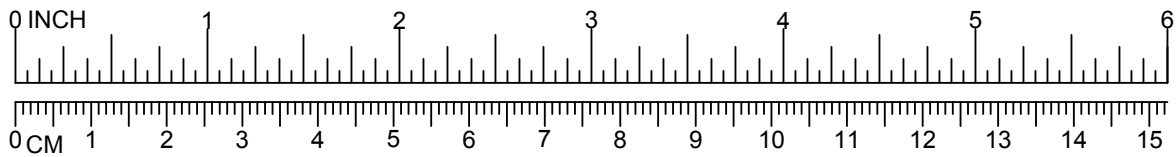
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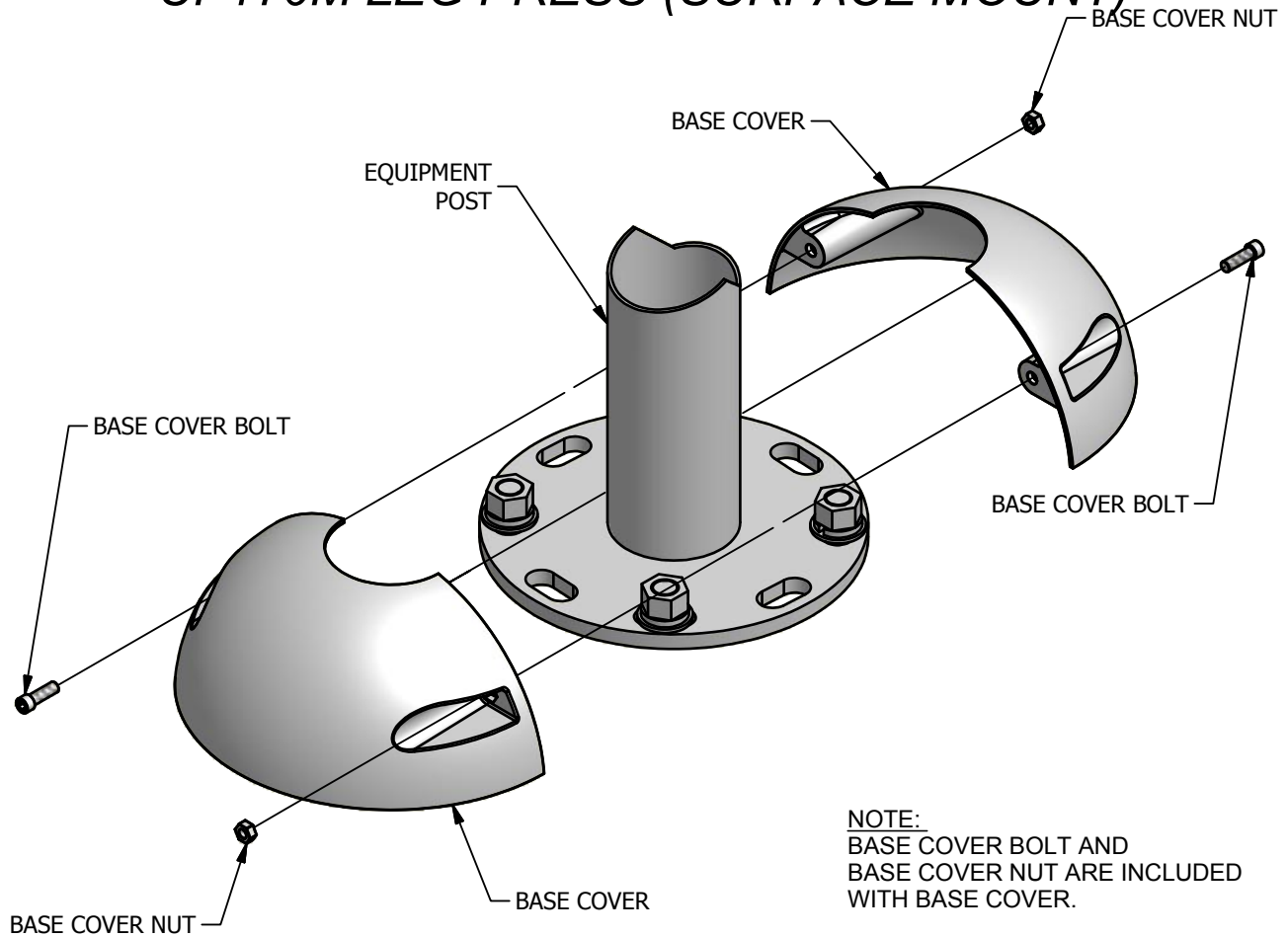
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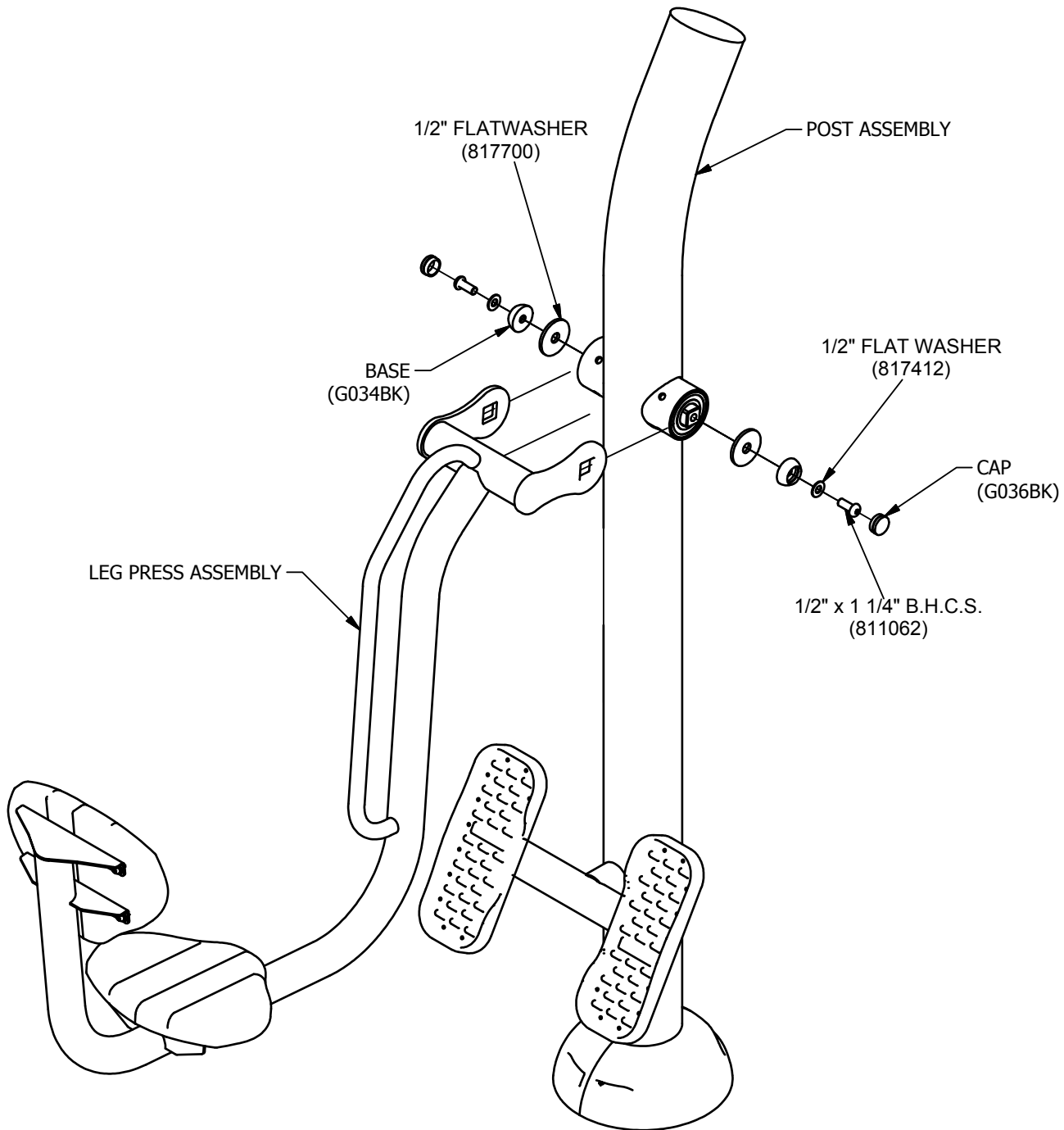
**UP170J LEG PRESS (FOOTING)
UP170S LEG PRESS (IN GROUND)
UP170M LEG PRESS (SURFACE MOUNT)**



BASE COVER DETAIL



UP170J LEG PRESS (FOOTING)
UP170S LEG PRESS (IN GROUND)
UP170SM LEG PRESS (SURFACE)



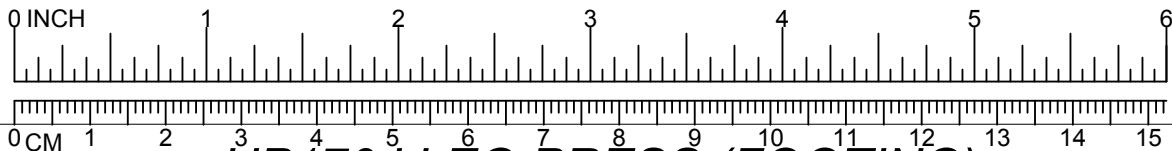
LEG PRESS ASS'Y DETAIL

Issued/Revised: 10/14/16

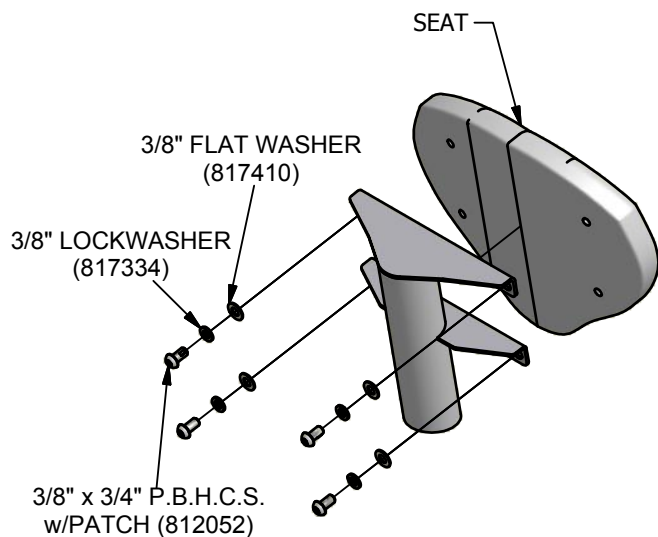


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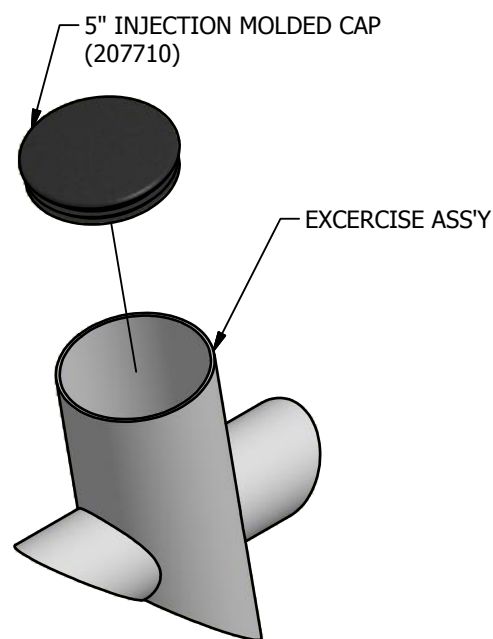
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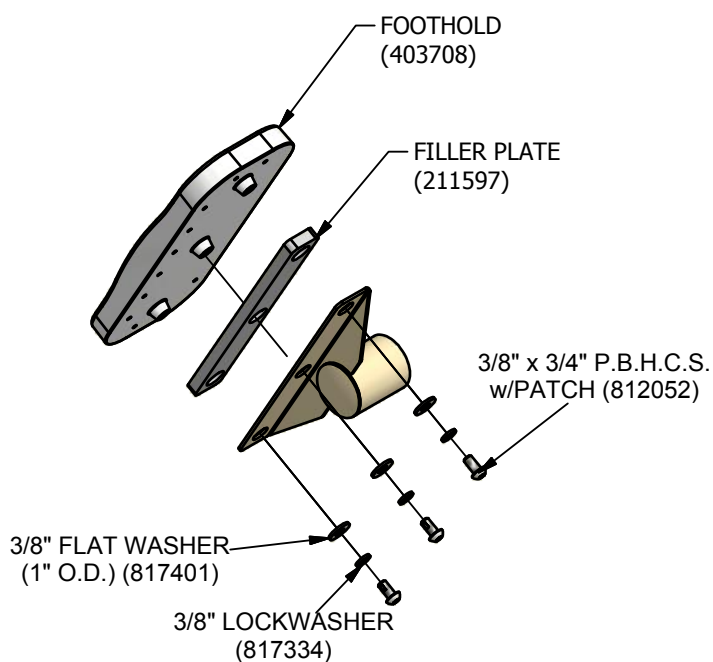
UP170J LEG PRESS (FOOTING)
UP170S LEG PRESS (IN GROUND)
UP170M LEG PRESS (SURFACE MOUNT)



SEAT DETAIL



CAP DETAIL



FOOTHOLD DETAIL

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