

ITEM 11615.2802 M – STEEL FITNESS EQUIPMENT (NYCDPR)

DESCRIPTION

This work shall consist of furnishing and installing Steel Fitness Equipment in accordance with the details indicated in the plans at the locations indicated in the plans or where directed by the Engineer.

MATERIALS

Fitness Equipment: Fitness Equipment shall be as shown on the drawings. All fitness equipment shall be Parcouse Fitness Systems, as manufactured by Gametime, PO Box 680121, Fort Payne, AL 35968.

Uprights: Shall be fabricated of 89 mm (3-1/2" O.D.-13 gauge) galvanized pipe, cast aluminum cap, self-sealing pop rivets, and 9.5 mm (3/8") inserts.

Rung Assembly: Shall be an all welded construction fabricated of 33 mm (1-5/16") O.D. galvanized pipe and 5 mm (3/16") x 44 mm (1-3/4") C.R. steel Mounting Plates.

Knee Lift Assembly: Shall be an all-welded construction fabricated of 89 mm (3-1/2" O.d.-13 gauge) galvanized pipe and formed 33 mm (1-5/16") O.D. galvanized pipe Climber Loops. Assembly shall also consist of a Cast Aluminum Cap and Self-Sealing Pop Rivets.

Leg Assemblies: Shall be an all-welded construction fabricated of 60 mm (2-3/8") O.D. standard galvanized pipe, 5 mm (3/16") x 152 mm (6") H.R. flat steel formed plate, and 5 mm (3/16") x 38 mm (1-1/2") H.R. flat steel gusset.

Handrail Assembly: Shall be an all-welded construction fabricated of 33 mm (1-5/16") O.D. galvanized formed handrail, 5 mm (3/16") x 76 mm (3") H.R. flat steel handrail plate, and galvanized pipe cap.

Log Hop Assembly: Shall be an all-welded construction fabricated of 89 mm (3-1/2" O.D. -13 gauge) galvanized pipe and 73 mm (2-7/8") O.D. standard galvanized pipe. Assembly shall also consist of a Cast Aluminum Cap and Self-Sealing Pop Rivets.

Bench Leg: Shall be made of 48 mm (1-7/8") O.D. galvanized pipe.

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

Footrest Assembly: Shall be an all-welded construction fabricated of 89 mm (3-1/2") O.D. galvanized pipe, 33 mm (1-5/16") O.D. galvanized pipe, 5 mm (3/16") x 76 mm (3") H.R. flat steel, and galvanized pipe cap. Final assembly shall also include cast aluminum caps and self-sealing pop rivets.

Concrete: Shall conform to N.Y.C. Dept. Of Transportation class B-32, Type II A, air entrained, moderate sulphate resistant. The batch shall contain a minimum of six (6) bags of cement per cubic yard of concrete, maximum of 6¼ gallons of water per bag, a maximum of 76mm (3") slump, and compressive strength of 3200 psi. Large aggregate shall be limited to 25mm (1").

Finish: All materials shall have a powder coat finish.

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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.

Extra Materials:

Furnish (furnish only, not install) and deliver, to the State, additional new materials obtained from the approved play equipment manufacturer. Furnish to Engineer any catalogs, invoices, statements, etc. for verification that a complete set of all maintenance and operations manuals, tools, extra paint, materials, etc. have been furnished. All furnished material shall be properly identified with the installation location.

192 oz. - Graffiti Remover, for polyester powder coated (painted) steel surfaces - 5.44 kg (192) ounces in spray bottles: six (6) 0.91 kg (32) ounce spray bottles; or twelve (12) 0.45 kg (16) ounce spray bottles: of Go-Away graffiti remover, as manufactured by:

Go-Away Graffiti Remover
as manufactured by
NEXGEN
North Hollywood, CA.

Hilti So Safe
as manufactured by
Hilti
Long Island City, NY

Gametime Graffiti Remover
as manufactured by
Gametime
Fort Payne, AL

Each container shall be clearly labeled on front, using minimum of 6 mm (1/4-inch) ± high lettering; “For Fitness Equipment”.

90 oz. - Touch-Up Paint, complete for all color surfaces, as provided by manufacturer. Twenty (20) cans of custom spray paint .13 kg (4.5 oz.) each can or a minimum of 2.55 kg (90 ounces) of paint (total all colors) shall be provided.

1 (One) - Tools And Hardware Maintenance Repair Kit, complete with tool box, fastener wrench and hardware (nuts, bolts screws etc.), including fifteen (15) bottles Loctite No. 242, in ten (10) milliliter size or approved equal, to be provided by manufacturer. The Repair Kit shall be clearly marked with the Contract Number and the Playground name. Marking shall be done with permanent magic marker or other method approved by the Engineer.

80 (eighty) Chain shackles with hexdrive flush pins in (2) boxes of forty (40) each, Suncor # S0115-NS10 or approved equal.

0.11 kg (4 oz) (each color) Vinyl Repair Kit in color(s) to match vinyl covered steel decks, complete in bottles or tubes (2) .06 kg (2 oz.) Bottles of Plast-O-Meric as manufactured by Gametime, Fort Payne, Alabama or approved equal; or (1) 0.11 kg (4 oz.) bottle of Sinclair & Rust RTV as manufactured by Miracle Recreation Equipment Company, PO Box 420, Monett, MO 65708, or approved equal. Front face of each container shall be clearly labeled using minimum of 6 mm (1/4 inch) high lettering; “For Vinyl-Coated Steel Decks”.

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Insurance Certificate: The Contractor shall furnish the Manufacturer's Certificate of Product Liability Insurance for \$ one (1) million .

CONSTRUCTION DETAILS

Equipment shall be assembled to configuration as shown on the approved shop drawings. All fastenings shall be made as shown on the drawings and shall be securely tightened with an impact and/or torque wrench (as per manufacturer's specification). A manufacturer's applied high-strength Loctite #204 Dri-Lock patch adhesive or approved equal shall be applied prior to final tightening of nuts and bolts. The Contractor shall take precautions while trimming bolt projections to prevent metallic contamination (rust bloom) of the corrosion resistant bolts to the satisfaction of the Engineer. These precautions include the use of previously unused grinding wheels, and applying zinc rich paint on trimmed galvanized bolts. All work shall be done so that no hazardous projections or rust bloom shall be left in the finished work. All wood shall be smooth and without splinters in the final assembled equipment.

Asphalt pavement shall be neatly saw-cut prior to excavation for footings. Entire apparatus shall be set square and plumb in concrete footings as shown on the approved shop drawing to grade required assuring level installation of platform angle frames and rails. Footings shall have the top surface finished so as to provide sheet drainage away from steel uprights, level and free of surface fluctuations that could contribute to an uneven surface in overlying safety surfacing. Hole depths indicated are measured from the top of the finished surface, after the addition of cushioning or groundcover. Due to extremes in weather and soil conditions, ground hole sizes may have to be increased to meet local conditions. When increasing footing depth, maintain 762 mm (2'-6") embedment from the top of the finished surfacing to the bottom of all posts, rail supports and bench legs. Place an object at bottom of ground hole to provide a solid foundation for embedded posts.

The Safety Surfacing Item 11615.41M shall be installed as soon as possible after the Steel Fitness Equipment installation is complete. The Contractor shall be responsible for temporarily barricading the Fitness Equipment prior to completion of the safety surfacing installation.

All work shall be done by skilled mechanics in a workmanlike manner.

Submittals: All submittals shall be in accordance with the requirements of the General Conditions, Section C, Special Provisions, Article 11, issued by NYCDPR. The Contractor shall submit the following for the Engineer's review and approval prior to manufacturer:

Shop Drawings: The Contractor shall submit shop drawings in accordance with the requirements of Article 11, Section C, Special Provisions, issued by NYCDPR. The shop drawings shall be submitted no later than three (3) months prior to the scheduled completion of the project. The shop drawings shall indicate as a minimum: the play equipment layout, the required minimum limits of the use zone, elevations, footing layout, materials, finishes, supports, hardware, fastener torque schedule, fittings, accessories, and compliance with ADA requirements including access details and the ratio of elevated versus ground level events. The shop drawings shall show the distance in meters and linear feet from outside edge of the safety surfacing to a minimum of three (3) closest adjacent fixed outside structures such as curbs, fences, benches or trees.

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Deviations From Layout: Any deviations from the contract drawings must be submitted for review and approval by the Engineer.

Color Samples: Color samples shall be submitted for approval by the Engineer before any powder coating is done.

Document of Acceptance: An authorized representative of the play equipment manufacturer must inspect and approve the completed installation. The play equipment will not be accepted by the play equipment manufacturer or the Engineer until they are satisfied with the installation. No additional compensation will be given for any necessary corrective work. A document of acceptance signed by the authorized Manufacturers' representative must be submitted to the Engineer before the final 20% payment is made to the Contractor for this item.

1 (One) - Installation And Maintenance Manual, complete, as provided by manufacturer.

METHOD OF MEASUREMENT

The work under Steel Fitness Equipment (NYCDPR) will be measured for payment on the lump sum basis.

BASIS OF PAYMENT

The lump sum bid for Steel Fitness Equipment (NYCDPR) shall include the cost of all labor, materials and equipment necessary to satisfactorily perform the work.

Progress payments. Steel Play Equipment will be eligible for progress payments in accordance with the following:

- 3% upon submission and approval of the required shop drawings.
- Partial payment for stored materials will be paid (77%).
- The remaining 20% upon satisfactory submission of all specified certificates and Document of Acceptance.