

(September 2021)

PERFORMANCE CRITERIA
FOR

SECTION 11 66 00

ATHLETIC EQUIPMENT
09/21

TABLE OF CONTENTS

GENERAL

1.1 REFERENCE

2.1 DESCRIPTION & MATERIALS

3.1 SUBMITTALS

3.2 QUALITY ASSURANCE

3.3 STANDARDS DEVIATIONS

3.4 DELIVERY, STORAGE AND PROTECTION

3.5 INSTALLATION, VERIFICATION AND ACCEPTANCE TESTING

3.6 WARRANTY

3.7 OPERATIONS AND MAINTENANCE (O & M)

GENERAL

This Performance Criteria specifies the requirements for athletic equipment.

1.1 REFERENCE

1.1.1 Unified Facilities Criteria (UFC)

Contractor must comply with the following:

- A. UFC 1-200-01 General Building Requirements
- B. UFC 1-200-02 High Performance and Sustainable Building Requirements
- C. UFC 3-120-10 Interior Design
- D. UFC 4-510-01 Military Medical Facilities

1.1.2 Military Standard

- A. MIL-STD 1691 Construction and Material Schedule for Medical, Dental, Veterinary and Medical Research Laboratories

1.1.3 National Fire Protection Association (NFPA)

- A. NFPA 99 Healthcare Facilities Code
- B. NFPA 101 Life Safety Code
- C. NFPA 260 Standard Methods of Tests and Classification System for Cigarette Ignition Resistance of Components of Upholstered Furniture
- D. NFPA 701 Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

1.1.4 Military Health System Standards

- A. Reserved for future

1.1.5 American Society for Testing and Materials (ASTM)

- A. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- B. ASTM D4157 Standard Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)

1.1.6 Underwriters Laboratories (UL)

- A. UL 60601-1 Medical and Electrical Equipment, Part 1: General Requirements for Safety

1.1.7 International Electrotechnical Commission (IEC)

- A. IEC 60601 Medical Electrical Equipment and Systems]

1.1.8 Food and Drug Administration

- A. CFR Title 21, Chapter I

1.1.9 Other Standards

- A. CAL-117 (California Technical Bulletin 117-2013)
- B. Reserved for future

2.1 DESCRIPTION & MATERIALS

All requirements within the MIL-STD 1691 JSN descriptions must be met as well as the performance guidelines listed in the following descriptions.

2.1.1 All JSN'S

- A. Paints, fabrics, and finishes will be selected from the manufacturer's standard options for the specified model unless noted otherwise.
- B. All fabrics (upholstery or drapery) must meet the appropriate fire test associated with each type of fabric as outlined by testing within the reference standards.
- C. All fabrics (upholstery) must meet the appropriate resistance to abrasion test associated with each type of fabric as outlined by testing within the reference standards.
- D. All product finishes and fabrics (upholstery or drapery) must meet industry standards for infection control and performance.
- E. All product finishes must be capable of maintaining sheen and color through warranty period when using industry standard cleaning and disinfection solutions.
- F. All display panel surfaces must maintain clarity through warranty period when using industry standard cleaning and disinfection solutions.
- G. All equipment that have components that are meant for reuse must be autoclavable or able to withstand industry standard cleaning and disinfection processes.
- H. Electrified equipment must be 115 Volt 15 amp maximum unless noted otherwise.
- I. Casters provided must be designed for use on the installed floor finish.
- J. All products that have interoperability capable hardware (i.e. internal storage, data transmission via wireless, Ethernet, LAN, or USB to PC or server connectivity) must meet Cybersecurity requirements in accordance with DoDI 8510.01 Risk Management Framework.
- K. DoDI 8510.01 applies to all DoD IT (medical devices included) that receive, process, store, display, or transmit DoD information. These technologies are broadly grouped as DoD IS, platform IT (PIT), IT services, and IT products. This includes IT supporting research, development, test and evaluation (T&E), and DoD-controlled IT operated by a contractor or other entity on behalf of the DoD.

2.1.2 Weight Lifting Equipment

A. Benches

G1000 – Bench, Weightlifting, Utility, Adjustable

G1001 – Bench, Weightlifting, Supine

G1004 – Bench, Weightlifting, Incline Press, Fixed Height

G1005 – Bench, Decline

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Constructed of 11-gauge steel with durable powder coat finish.
3. Benches must be commercial strength and meet International Weightlifting Federation (IWF) standards.
4. Benches must be adjustable or have triple gun rack for multiple starting positions with weightlifting bar.
5. Provide benches [and roller pads] that are cushioned for comfort and support.

B. Barbell Weight Equipment

G1032 – Rack, Barbell Weight

G1036 – Weight Set, Exercise, Barbell Plate

G1038 – Bar, Weightlifting

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Equipment must be commercial strength and meet International Weightlifting Federation (IWF) standards.
3. Racks and bars must accept Olympic (2 inch diameter) style weights.

C. Dumbbell Weight Equipment

G1037 – Weight Set, Exercise Dumbbell

G1040 – Rack, Dumbbell

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Equipment must be constructed of heavy-duty material for durability.

2.1.3 Cardio Exercise Machines

G0144 – Ergometer, Recumbent Stepper

G1007 – Ergometer, Stationary, Stair

G1043 – Ergometer, Recumbent Bicycle, Computer Assisted

G1025 – Exercise Machine, Elliptical

- A. Ergometers must have a user weight capacity of [300] [____] [____] pounds.
- B. Display must be LED/LCD high contrast with text readable in any ambient light level.
- C. Seats and/or handlebars must adjust to accommodate users of varying heights and abilities.
- D. Ergometers must have adjustable resistance levels.
- E. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
- F. Where applicable, provide seats and/or backs that are cushioned and contoured for comfort and support.

2.1.4 Abdominal Exercise

G1002 – Board, Abdominal Exercise

G1003 – Exercise Board, Abdominal, Raised and Bent Leg

- A. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
- B. Constructed of 11-gauge steel with durable powder coat finish.
- C. Provide benches and roller pads that are cushioned for comfort and support.

2.1.5 Exercise Machines

A. Upper Body

G1008 – Exerciser, Upper Body, Weight Assisted

G1010 – Exerciser, Machine, Neck

G1011 – Exercise Machine, Abdominal

G1013 – Exercise Machine, Chest

G1014 – Exercise Machine, Biceps

G1015 – Exercise Machine, Triceps

G1016 – Exercise Machine, Chin / Dip

G1020 – Exercise Machine, Rotary Shoulder

G1021 – Exercise Machine, Pullover

G1033 – Exercise Machine, Back Extension

G1034 – Exercise Machine, Shoulder

G1041 – Exercise Machine, Leg Curl

G1042 – Exercise Machine, Leg Extension

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Equipment must be commercial strength (designed and constructed to withstand heavy usage and high-traffic use).
3. Weight stacks must be fully shrouded for safety.
4. Provide warnings or warning labels alerting users, third parties, and service personnel to hazards associated with use and service of the equipment.

B. Lower Body

G1012 – Exercise Machine, Leg Press/Squat

G1018 – Exercise Machine, Hip Abduction

G1019 – Exercise Machine, Hip Adduction

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Equipment must be commercial strength (designed and constructed to withstand heavy usage and high-traffic use).

3. Weight stacks must be fully shrouded for safety.
4. Provide warnings or warning labels alerting users, third parties, and service personnel to hazards associated with use and service of the equipment.

C. Total Body

G1009 – Exercise Machine, Climbing

G1022 – Exercise Machine, Resistance, Power Rod

G1024 – Exercise Machine, Rowing

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Equipment must be commercial strength (designed and constructed to withstand heavy usage and high-traffic use).
3. Weight stacks must be fully shrouded for safety.
4. Provide warnings or warning labels alerting users, third parties, and service personnel to hazards associated with use and service of the equipment.
5. [Resistance machine must offer multiple resistance exercises from a variety of angles.]
6. [Rowing machine to feature contoured seat with even gliding motion.]
7. Exercise machines must have padded grips for comfort and safety.
8. Exercise machines must have a minimum user weight capacity of [250] [____] pounds.

2.1.6 Exercise Area Equipment

A. Exercise/Stretching Bars

G0999 – Barre, Exercise/Ballet, Wall-Mounted, Adjustable

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Bar material must be aluminum or hardwood.
3. Include adjustment to accommodate users of varying heights and abilities.

B. Overhead Bars

G1006 – Bar, Chinning, Wall Mount

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Equipment must be commercial strength, constructed of heavy steel and powder coated for durability.
3. [Steel must be 7-gauge and the bar diameter must be at least [1.125 inches] [1.25 inches].]
4. Overhead bars must have a maximum user weight capacity of [400] [____] pounds.

C. Sports Fitness Equipment

G1028 – Net, Volleyball w/Stanchions & Wires

G1030 – Platform, Referee, Volleyball w/Pads

G1035 – Kit, Wallyball

1. Net border material must be latex free and constructed of vinyl or nylon.
2. Equipment must be commercial strength, constructed of heavy-duty material for durability.
3. Poles supporting volleyball nets must withstand tension and not bend or break when stressed.
4. Netting to feature knotted 4 inch openings; provide netting materials in either polypropylene, polyethylene or vinyl.
5. Volleyball poles must be able to support referee stand which attaches to the stanchions.

D. Rehabilitative Exercise Equipment

G1026 – Exercise Apparatus, Weight Training, Multi-Station

G1027 – Exercise Machine, Closed Chain

G1044 – Board, Slider, Side-To-Side

G1050 – Rebounder, Exercise, Plyometric

1. Surfaces must be non-porous, impervious to fluids, and allow for thorough cleaning and disinfection.
2. Equipment must be constructed of heavy-duty material for durability.

2.1.7 Gymnasium Flooring

G1031 – Floor Cover, Rubber, Interlock

- A.** Surfaces must be resistant to fluids and allow for thorough cleaning and disinfection.
- B.** Provide floor surface finish to aid in traction.
- C.** Floor covering must have transition/reducer strips at edges to eliminate tripping hazard and provide a smooth transition from interlocking floor surface to adjacent floor surface

3.1 SUBMITTALS

3.1.1 Submittals required for government review

- A. Submittal requirements are outlined in [Division 01] [PWS SOW] [___]
- B. [Product Information must include manufacturer's installation instructions, sizing (including required clearance for access and maintenance), utility requirements, isometric drawings, tagged floorplans showing placement for count accountability and accessories/options/consumables lists.]
- C. All submittals require Government approval prior to procurement. Submit all listed items herein, with information sufficient to show full compliance with the criteria. Submit all product selections for review and approval, including but not limited to: materials, finishes, colors, options, accessories, and complimentary products. Provide for review all warranties and service contracts and any available extended warranty or service options.
- D. Samples: Furnish material samples and full range of color selection options for all items that offer material and color selections.
- E. Submit and highlight all applicable options for Government review for all items which optional accessories are provided.
- F. [Joint Interoperability Test Command (JTIC) Approval Documentation.]

3.2 QUALITY ASSURANCE

3.2.1 Materials and Equipment

- A. Materials and equipment must be standard products of a manufacturer regularly engaged in the manufacture of products which are of a similar material, design, and workmanship and are offered for sale on the commercial market through advertisements, manufacturer's catalogs, or sales brochures. The products must have been in commercial or industrial use under similar circumstances and of similar size for 2 years prior to selection for approval/procurement. Products must be supportable for at least three years after government acceptance.

3.2.2 Alternative Service Record

- A. Products having less than a 2-year field service record will be acceptable if a certified record of the manufacturer's factory or laboratory tests demonstrating performance compliance is provided to the Contracting Officer.

3.2.3 Service Support

- A. Equipment items must be supported by service organizations located near the equipment installation, able to service the equipment on a regular basis and respond to emergency calls throughout the warranty period.

3.2.4 Manufacturer's Nameplate

- A. Each item of equipment must have an attached nameplate that is securely affixed in a conspicuous space. A nameplate listing only the name of the distributing agent is not acceptable. The nameplate must contain the following fields in English:

1. Manufacturer's name and address
2. Model and Serial Number
3. Item's utility ranges and/or capacities
4. Voltage, amperage, and applicable Underwriters Laboratory (UL) or Conformité Européenne (CE) rating if electrically powered
5. Date of manufacture

3.2.5 Factory Inspection

- A. Arrange and perform all quality control and quality assurance inspections required by the technical sections of the criteria, unless otherwise specified. Report these inspections in the daily report to the Government inspector.

3.2.6 Product Qualifications

- A. The products specified in the technical sections of this criteria establish standards for each item.

3.2.7 Design Parameters

- A. It is not the intention of this Criteria to limit consideration to products of specific manufacturers. The product

standards establish the characteristics for which submitted items of equipment will be reviewed and approved by the Government. Equipment furnished must meet each of the following parameters specified in the technical sections:

1. Size of equipment
2. Function of equipment
3. Standard and listed accessories and options
4. Equipment controls and performance of equipment
5. Construction of equipment
6. Finish

3.3 STANDARDS DEVIATIONS

3.3.1 Reporting and Submission for Approval

- A. Submit for approval a record of deviations from the standards listed in section (3.2.7.A.) established for each specified product, before ordering equipment.

3.4 DELIVERY, STORAGE AND PROTECTION

3.4.1 Packaging and Transporting

- A. Each unit of equipment must be placed in a substantial shipping container or crate for safe transportation to final destination. The shipping container or crate for heavy equipment must be on skid construction to facilitate handling by lift equipment.

3.4.2 Packing List

- A. Clearly and legibly indicate on exterior of each container or crate the shipping address and a brief description of contents. Fasten to outside of container a packing list and complete instructions for uncrating equipment and setting it in place. Protect such information in a weatherproof envelope.

3.4.3 Protection

- A. Properly protect all materials and equipment from injury and damage during storage, installation, and acceptance.

3.5 INSTALLATION, VERIFICATION AND ACCEPTANCE TESTING

3.5.1 Qualifications of Installers and Inspectors

- A. If required by product warranty, use installers that are approved and licensed by the manufacturer. When required to complete installation, all electricians and plumbers used must be bonded and licensed in the project's jurisdiction.
- B. [Company specializing in installing the products specified in this section must have a minimum 5 years of documented experience.]
- C. [Company specializing in installing the products specified in this section must be within 200 miles or 4 hours travel time.]

3.5.2 Installation, Operation, Testing and Certification

- A. Products must be delivered in manufacturer's original packaging with manufacturer's installation instructions. Include clearly marked project reference.
- B. Prior to installation, thoroughly examine the equipment, materials, and components for both visual defects and conformance with criteria.
- C. Install all equipment in compliance with manufacturer's written instructions and installation procedures.
- D. After installation, the equipment must be inspected and tested under operating conditions. If the equipment fails an inspection or test, such defects/failures must be corrected. Upon correction of defects/failures, inspect and retest all affected functions related directly and indirectly to the defect or failure. Corrections, replacement, and retesting must be made at no additional expense to the Government.
- E. Provide all items necessary to make equipment fully functional.
- F. Provide appropriately trained personnel to energize, commission, inspect, electrical safety check, calibrate, certify, and provide all required technical testing for equipment and systems. Contractor must provide documentation, test reports and certification documentation attesting that the equipment is properly installed, functional, safe, calibrated, and ready for its intended use.

- G. An equipment item will be considered defective if it cannot be made to meet all established criteria consistent with the activities listed in section (F).
- H. Provide two sets of special tools, software, and any other item/s for each equipment [item] [item type] if required for maintenance and/or future reconfiguration of the item.
- I. Contractor to supply all start-up supplies for medical equipment for a fully operational installation. Contractor must supply to the Government a listing of all needed supplies for ongoing equipment operation for each item of equipment requiring additional supplies for operation.
- J. Engage a factory-authorized service representative to train Government's staff and maintenance personnel to adjust, operate, and maintain medical equipment.
- K. [Confirm functionality of required interfaces to other systems and networks.]

3.6 WARRANTY

3.6.1 Minimum Requirements

- A. Warranty requirements are outlined in [Division 01] [PWS SOW] [___].
- B. [Provide manufacturer's written warranty for all items listed. Provide warranty for a minimum of (1) year against defects in materials and workmanship. Warranty must provide for material, labor and all associated replacement and/or repair costs required to provide for a fully operational equipment replacement or repair. Submit manufacturers and installers standard service contract beyond the warranty period for Government review. Warranty must be transferrable to the final owner without risk of being voided. All warranty certification and documentation must be provided to the final owner after date of acceptance.]
- C. Provide routine warranty service in accordance with manufacturer's warranty requirements, for a period of [12 months (minimum)] [___] after the open for business date. Perform work during regular working hours. Perform service only by factory trained personnel. Maintain a maintenance log of all service orders performed during the warranty period.

3.7 OPERATIONS AND MAINTENANCE (O & M)

3.7.1 Provide the following to the final owner

- A. Provide O & M data for all FFE-LVS as outlined in [Division 01] [PWS SOW] [___].
- B. Upon completion of equipment installation, furnish [two (2)] copies of operators/service/maintenance manuals for each type of equipment which will require service or maintenance
- C. Each manual must contain operating instructions and information required for performing periodic maintenance on the equipment. Each service manual must include an illustrated parts breakdown which identifies each part of the unit with manufacturer's part number, wiring diagrams, and a list of necessary service parts, tools, and equipment needed to support maintenance requirements.
- D. Accessory Catalogs: Upon completion of the Project, furnish two copies of the manufacturer's catalogs containing optional accessory items available for all equipment relative to the procured equipment/system delivered herein.
- E. Provide instruction video for cleaning and maintenance, when available.
- F. Provide cleaning requirements for all items to prevent void of warranty.
- G. [Provide contact information for Repair Technician or Emergency Repair Company]
- H. Provide contact information to [Logistics, Pharmacy, Laboratory, and Biomedical Equipment Services.]
- I. Train designated staff in the operation and maintenance of the provided equipment/system. Provide two training sessions for equipment/system users and two training sessions for maintenance personnel scheduled to accommodate shift work. [Provide training certificates that can be executed up to eleven months after the system is installed, in order to provide a refresher course for each group of trainees.] Provide DVD copy of the training with the O & M data.

--End of Section--