(September 2021)

PERFORMANCE CRITERIA
FOR

SECTION 12 52 00

SEATING
09/21

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GENERAL

This Performance Criteria (PC) specifies the requirements for seating.

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 4-510-01 Military Medical Facilities
- **D.** UFC 3-120-10 Interior Design

1.1.2 Military Standard

- **A.** MIL-STD 1691 Construction and Material Schedule for Military 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 D4157 Standard Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)
- **B.** ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials

1.1.6 Underwriters Laboratories (UL)

A. UL GREENGUARD Certification

1.1.7 Business & Institutional Furniture Manufacturers Association (BIFMA)

A. ANSI/BIFMA X5.1 – Office Seating
B. ANSI/BIFMA X5.4 – Lounge and Public Seating
C. ANSI/BIFMA X5.11 – Large Occupant Office Seating
D. BIFMA HCF 8.1 – Healthcare Furniture Design – Guidelines for Cleanability
E. ANSI/BIFMA e3 Furniture Sustainability Standard

1.1.8 State of California Department of Consumer Affairs

A. California Technical Bulletin 117-2013

1.1.9 Other Standards

A. 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. Products must comply with UL GREENGUARD or equivalent certification, as applicable.
B. Products must comply with [BIFMA Level 1 certification] [BIFMA Level 2 certification] [BIFMA Level 3 certification].
C. Fire and flame spread of products must meet class A flame spread with maximum smoke developed of 450 as outlined by testing within the reference standards.
D. Fabrics (upholstery or drapery) must meet the appropriate fire test associated with each type of fabric as outlined by testing within the reference standards.
E. Fabrics (upholstery) must meet or exceed 75,000 double rubs measured through the Wyzenbeek method, as outlined by testing within the reference standards.
F. Product finishes and fabrics (upholstery or drapery) must meet industry standards for infection control and performance
G. Product finishes must be capable of maintaining sheen and color through warranty period when using industry standard cleaning solutions.
H. Finishes and fabrics must be selected from the manufacturers' standard options for the specified model unless noted otherwise.
I. Fabrics (upholstery or drapery) must be polyurethane free.
J. Casters provided must be designed for use on the installed floor finish.
K. Chrome plating must not be utilized as a finish.

2.1.2 Benches

A5020 – Bench, Locker Room, Floor Mounted
A5025 – Bench, Locker Room, Portable
A. Benches must be tested for 300 lbs [136 kg] minimum capacity.
B. Base must be anodized aluminum or painted steel.
C. Seat must be wood, phenolic, upholstered, or laminate. Wood must have a durable lacquer finish.
D. Finished materials must be resistant to moisture and corrosion.
E. [Include [floor mounting capabilities] [back support].]
F. Options must include benches which meet ADA criteria and have an accessible approach.

2.1.3 Lounge Seating

F0250 – Chair, Arm, Lounge Type
F0255 – Chair, Easy
F0305 – Chair, Waiting Room, Single
F0306 – Sofa, Waiting, Bariatric
F0310 – Chair, Waiting Room, Tandem
F0375 – Sofa, Upholstered

A. Seating must be tested for 300 lbs [136 kg] minimum capacity, and tested to 750 lbs for bariatric models.
B. Legs must be wall saver style in wood or wood veneer [or silver metallic] with non-marring glides.
C. Arm surface must be provided with urethane, solid surface material or wood arm cap. Arm caps are to be smooth with no sharp edges. All arm caps must have hospital-grade finish and must not degrade when cleaned with cleaners commonly used in healthcare facilities.
D. Upholstery must be impervious to liquid and readily cleanable with cleaners commonly used in healthcare facilities.
E. Patient seating must have clean out space between seat and back intersection.
F. Upholstery must have stain resistant finish.
G. Legs, arms, seats, and backs must be readily replaceable and reconfigurable between chairs without permanent damage to components.
H. Seating options must include replaceable slipcovers for both seat and back cushions.

2.1.4 Patient Seating

F0260 – Chair, High Back, Patient
F0265 – Chair, Recliner
F0267 – Chair Recliner, Bariatric
F0270 – Chair, Rocking, High Back
F0315 – Chair, Sleeper
F0370 – Sofa, Sleeper, Upholstered
A. Seating must be tested for 350 lbs [159 kg] minimum capacity, and tested to 750 lbs. for bariatric models.
B. Legs must be wall saver style in wood or wood veneer with non-marring glides. If casters are required, select by floor finish. Locking casters must be an option.
C. Arm surface must be provided with urethane, solid surface material or wood arm cap. Arm caps are to be smooth with no sharp edges. All arm caps must have hospital-grade finish and must not degrade when cleaned with cleaners commonly used in healthcare facilities.
D. Upholstery must be impervious to liquid and readily cleanable with cleaners commonly used in healthcare facilities.
E. Patient seating must have clean out space between seat and back intersection.
F. Upholstery and mesh must have stain resistant finish.
G. Legs, arms, seats, and backs must be readily replaceable and reconfigurable between chairs without permanent damage to components.
H. Some patient seating products offer many accessories, such as accessory hooks, tray tables, accessory brackets for IV poles/O2 tanks, push handles, and foot tray.
I. Some patient seating products offer a headrest.
J. Some patient seating products offer Trendelenburg positioning.
K. Some sleeper sofa products offer accessories such as mattress covers, storage drawers, storage compartments, and center table.

2.1.5 Side Chairs

F0205 – Chair, Side With Arms
F0206 – Chair, Side, Bariatric, With Arms
F0210 – Chair, Side, Without Arms
F0215 – Chair, Child's
F0225 – Chair, Dining Room
F0295 – Chair, Stacking
F0235 – Chair, Executive, Side
A. Chairs must be tested for 300 lbs [136 kg] minimum capacity, and must be tested to 750 lbs for bariatric models.
B. Legs must be wall saver style steel or aluminum with non-marring glides. If casters are required, select by floor finish.
C. Arm surface must be provided with urethane, solid surface material or wood arm cap. Arm caps are to be smooth with no sharp edges. All arm caps must have hospital-grade finish and must not degrade when cleaned with cleaners commonly used in healthcare facilities.
D. Upholstery must be impervious to liquid and readily cleanable with cleaners commonly used in healthcare facilities.
E. Seating must have clean out space between seat and back intersection.
F. Upholstery and mesh must have stain resistant finish.
G. [Side chairs must be capable of four high stacking].
H. Children's chairs to be offered in a variety of sizes that accommodate different ages.

2.1.6 Stools

F0340 – Stool, Self Adjusting
M5030 – Stool, Surgeon, Revolving
M8940 – Stool, Anesthesia, With Back

A. Must include five star base with locking casters, and pneumatic hand or foot operated lift.
B. Seat finish must be vinyl or molded seat surface that resists punctures and tears. Seat finish must be impervious to water and must not degrade when cleaned with cleaners commonly used in healthcare facilities.
C. Arms must have independent ergonomic adjustability in height and front to back placement. [Arms must include option for removal.]

2.1.7 Task Seating

F0220 – Chair, Conference
F0230 – Chair, Drafting, Rotary
F0240 – Chair, Executive, Swivel
F0245 – Chair, Executive, Rotary, Highback
F0275 – Chair, Swivel, High Back
F0280 – Chair, Swivel, Low Back
F0285 – Chair, Secretarial, Tilt Back, Adjustable Height
F0290 – Chair, Secretarial, Executive
F0300 – Chair, Task, Swivel, With Arms

A. Chairs must be tested for 300 lbs minimum capacity.
B. Must include five star base with casters selected by floor finish.
C. Seat must include pneumatic height adjustment, 360 degree swivel and waterfall front edge.
D. Arms must have independent ergonomic adjustability in height and front to back placement. [Arms must include option for removal.]
E. Seat back must include lumbar support.
F. Upholstery, mesh, or leather on seat and back must have stain resistant finish.
G. Base must be manufacturers standard [metal] [plastic] [wood veneer at executive seating]. Task stool bases must include an adjustable foot ring.
H. Most models feature an array of ergonomic adjustments which may include tilt tension, synchronized tilt, tilt/back lock, adjustable seat depth, etc.
I. Product is to be warranted for 3-shift, 24/7 application.

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 Conformitè Europëenne (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--